MITSUBISHI ELECTRIC

Changes for the Better

for a greener tomorrow

AIR CONDITIONING SYSTEMS

CITY MULTI

DATA BOOK

R410A series

C7-R

Revised edition

Preface

DATABOOK describes the technical specifications of MITSUBISHI ELECTRIC Corp.'s CITYMULTI air conditioning system products.

DATABOOK C7-R Revised edition is updated from DATABOOK C7-R.
The contents below are added as well as some minor revisions.

Indoor: PEFY-P22, 28, 36, 45, 56VMS-E-S are added to the lineup.
PEFY-P-VMA-E(1) is changed to PEFY-P-VMA-E-S

Outdoor: PUMY-P-VHMC-S is added to the lineup.

We recommend DATABOOK users to read carefully and take advantage of all the contents inside to design the CITY MULTI air conditioning system and/or to prepare documents for promotions.

Along with the DATABOOK, MITSUBISHI ELECTRIC provides a Design-Tool software to ensure the users to design the system correctly and simplify the calculations. Please contact your local distributor for this software.

Please be notified that specifications are subject to change without notice due to continual improvements of the product.
For any inquiries, please contact your local distributor.

CITY MULTI
Databook C7-R Revise

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CITY MULTI
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GENERAL LINE-UP

Indoor Units Line-up of CITY MULTI R410A Series.

All the indoor units are subject to CE and CCC regulation.

Model size		P15	P20	P22	P25	P28	P32	P36	P40	P45	P50	P56	P63	P71	P80	P100	P125	P140
Nominal HP		**0.6HP**	**0.8HP**	**0.9HP**	**1.0HP**	**1.1HP**	**1.3HP**	**1.4HP**	**1.6HP**	**1.8HP**	**2.0HP**	**2.3HP**	**2.5HP**	**2.8HP**	**3.2HP**	**4.0HP**	**5.0HP**	**5.6HP**
Nominal cooling cap.*1	kW	1.7	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	11.2	14.0	16.0
	kcal/h	1,450	1,900	2,200	2,400	2,800	3,100	3,400	3,900	4,300	4,800	5,400	6,100	6,900	7,700	9,600	12,000	13,800
	BTU/h	5,800	7,500	8,500	9,600	10,900	12,300	13,600	15,400	17,100	19,100	21,500	24,200	27,300	30,700	38,200	47,800	54,600
Nominal cooling cap.*2	kW	1.8	2.3	2.6	2.9	3.3	3.7	4.2	4.7	5.2	5.8	6.5	7.3	8.3	9.3	11.6	14.5	16.3
	kcal/h	1,500	2,000	2,200	2,500	2,800	3,200	3,600	4,000	4,500	5,000	5,600	6,300	7,100	8,000	10,000	12,500	14,000
	BTU/h	6,100	7,800	8,900	9,900	11,300	12,600	14,300	16,000	17,700	19,800	22,200	24,900	28,300	31,700	39,600	49,500	55,600
Nominal heating cap.*3	kW	1.9	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0
	kcal/h	1,600	2,200	2,400	2,800	3,100	3,400	3,900	4,300	4,800	5,400	6,100	6,900	7,700	8,600	10,800	13,800	15,500
	BTU/h	6,500	8,500	9,600	10,900	12,300	13,600	15,400	17,100	19,100	21,500	24,200	27,300	30,700	34,100	42,700	54,600	61,400
Ceiling concealed		 **PEFY-P-VMS-E-S**							 **PEFY-P-VMM-E-S**						 **PEFY-P-VMA-E-S**				
	PEFY-P-VMS-E-S	●	●	●	●	●	●	●	●	●	●	●	●					
	PEFY-P-VMM-E-S		●		●		●		●		●		●	●	●	●	●	
	PEFY-P-VMA-E-S		●		●		●		●		●		●	●	●	●	●	●
Ceiling cassette		 **PMFY-P-VBM-EC**									 **PLFY-P-VBM-E-S**								
	PMFY-P-VBM-EC		●		●		●		●									
	PLFY-P-VBM-E-S						●		●		●		●		●	●	●	
Wall mounted		 **PKFY-P-VBM-EC**									 **PKFY-P-VHM-EC**								
	PKFY-P-VBM-EC	●	●		●													
	PKFY-P-VHM-EC						●		●		●							

* kcal/h=round(kWx860,-2), BTU/h=round(kWx3,412,-2)

* Nominal conditions *1, *2, *3 are referable at the Specification sheet.

PEFY-P-VMS-E-S

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1. SPECIFICATIONS

Model			PEFY-P15VMS-E-S	PEFY-P20VMS-E-S	PEFY-P22VMS-E-S	PEFY-P25VMS-E-S
Power source			1-phase 220V 50Hz	1-phase 220V 50Hz	1-phase 220V 50Hz	1-phase 220V 50Hz
Cooling capacity	*1	kW	1.7	2.2	2.5	2.8
(Nominal)	*1	kcal / h	1,500	1,900	2,200	2,400
	*1	BTU / h	5,800	7,500	8,500	9,600
	Power input	kW	0.05	0.05	0.07	0.07
	Current input	A	0.42	0.47	0.53	0.53
Heating capacity	*2	kW	1.9	2.5	2.8	3.2
(Nominal)	*2	kcal / h	1,600	2,200	2,400	2,800
	*2	BTU / h	6,500	8,500	9,600	10,900
	Power input	kW	0.03	0.03	0.05	0.05
	Current input	A	0.31	0.36	0.43	0.43
External finish			Galvanized	Galvanized	Galvanized	Galvanized
External dimension HxWxD		mm	200 x 790 x 700	200 x 790 x 700	200 x 790 x 700	200 x 790 x 700
		inch	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16
Net weight		kg(lbs)	19(42)	19(42)	19(42)	19(42)
Heat exchanger			Cross fin(Aluminum fin and copper tube)			
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
*3	External static press.	Pa	5 - 15 - 35 - 50	5 - 15 - 35 - 50	5 - 15 - 35 - 50	5 - 15 - 35 - 50
		mmH_2O	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1
	Motor Type		DC motor	DC motor	DC motor	DC motor
	Motor output	kW	0.096	0.096	0.096	0.096
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		m^3 / min	5.0 - 6.0 - 7.0	5.5 - 6.5 - 8.0	5.5 - 7.0 - 9.0	5.5 - 7.0 - 9.0
		L/s	83 - 100 - 117	92 - 108 - 133	92 - 117 - 150	92 - 117 - 150
		cfm	177 - 212 - 247	194 - 230 - 282	194 - 247 - 318	194 - 247 - 318
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
(rear inlet)	*4	dB <A>	27 - 28 - 30	27 - 29 - 30	27 - 30 - 32	27 - 30 - 32
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
(bottom inlet)	*4	dB <A>	29 - 30 - 32	30 - 31 - 34	30 - 33 - 37	30 - 33 - 37
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam			
Air filter			PP honeycomb fabric.			
Protection device			Fuse	Fuse	Fuse	Fuse
Refrigerant control device			LEV	LEV	LEV	LEV
Connectable outdoor unit			R410A CITY MULTI (Residential)			
Diameter of refrigerant pipe	Liquid (R410A) (R22, R407C)	mm(in.)	6.35(1/4")Brazed -	6.35(1/4")Brazed -	6.35(1/4")Brazed -	6.35(1/4")Brazed -
	Gas (R410A) (R22, R407C)	mm(in.)	12.7(1/2")Brazed -	12.7(1/2")Brazed -	12.7(1/2")Brazed -	12.7(1/2")Brazed -
Field drain pipe size		mm(in.)	O.D.32(1-1/4")	O.D.32(1-1/4")	O.D.32(1-1/4")	O.D.32(1-1/4")
Drawing	External		WKB94T671	WKB94T671	WKB94T671	WKB94T671
	Wiring		WKB94T687	WKB94T687	WKB94T687	WKB94T687
	Refrigerant cycle		-	-	-	-
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory		Drain hose	Drain hose	Drain hose	Drain hose
Optional parts	Wired Remote Controller		PAR-21MAA	PAR-21MAA	PAR-21MAA	PAR-21MAA
	Wireless Remote Controller, Receiver		PAR-FL32MA-E, PAR-SA9CA-E			
	IT terminal		S-MAC-127PT			
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specifications may be subject to change without notice.			

Notes :

1.Nominal cooling conditions
Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB)
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
2.Nominal heating conditions
Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB)
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
3.The external static pressure is set to 5 Pa at factory shipment.
4.Sound pressure level measured in anechoic room (External static pressure setting to 5 Pa).

Unit converter	
kcal	=kW x 860
BTU/h	=kW x 3,412
cfm	$=m^3$/min x 35.31
lbs	=kg / 0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model			PEFY-P28VMS-E-S	PEFY-P32VMS-E-S	PEFY-P36VMS-E-S	PEFY-P40VMS-E-S
Power source			1-phase 220V 50Hz	1-phase 220V 50Hz	1-phase 220V 50Hz	1-phase 220V 50Hz
Cooling capacity	*1	kW	3.2	3.6	4.0	4.5
(Nominal)	*1	kcal / h	2,800	3,100	3,400	3,900
	*1	BTU / h	10,900	12,300	13,600	15,400
	Power input	kW	0.07	0.07	0.07	0.07
	Current input	A	0.53	0.53	0.56	0.56
Heating capacity	*2	kW	3.6	4.0	4.5	5.0
(Nominal)	*2	kcal / h	3,100	3,400	3,900	4,300
	*2	BTU / h	12,300	13,600	15,400	17,100
	Power input	kW	0.05	0.05	0.05	0.05
	Current input	A	0.43	0.43	0.45	0.45
External finish			Galvanized	Galvanized	Galvanized	Galvanized
External dimension HxWxD		mm	200 x 790 x 700	200 x 790 x 700	200 x 990 x 700	200 x 990 x 700
		inch	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 39 x 27-9/16	7-7/8 x 39 x 27-9/16
Net weight		kg(lbs)	20(45)	20(45)	24(53)	24(53)
Heat exchanger			Cross fin(Aluminum fin and copper tube)			
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 3
*3	External static press.	Pa	5 - 15 - 35 - 50	5 - 15 - 35 - 50	5 - 15 - 35 - 50	5 - 15 - 35 - 50
		mmH_2O	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1
	Motor Type		DC motor	DC motor	DC motor	DC motor
	Motor output	kW	0.096	0.096	0.096	0.096
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		m^3 / min	6.0 - 8.0 - 10.0	6.0 - 8.0 - 10.0	8.0 - 9.5 - 11.0	8.0 - 9.5 - 11.0
		L/s	100 - 133 - 167	100 - 133 - 167	133 - 158 - 183	133 - 158 - 183
		cfm	212 - 282 - 353	212 - 282 - 353	282 - 335 - 388	282 - 335 - 388
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
(rear inlet)	*4	dB <A>	29 - 31- 33	29 - 31- 33	28 - 30 -32	28 - 30 -32
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
(bottom inlet)	*4	dB <A>	31 - 35 - 40	31 - 35 - 40	31 - 33 - 37	31 - 33 - 37
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam			
Air filter			PP honeycomb fabric.			
Protection device			Fuse	Fuse	Fuse	Fuse
Refrigerant control device			LEV	LEV	LEV	LEV
Connectable outdoor unit			R410A CITY MULTI (Residential)			
Diameter of refrigerant pipe	Liquid (R410A) (R22, R407C)	mm(in.)	6.35(1/4")Brazed -	6.35(1/4")Brazed -	6.35(1/4")Brazed -	6.35(1/4")Brazed -
	Gas (R410A) (R22, R407C)	mm(in.)	12.7(1/2")Brazed -	12.7(1/2")Brazed -	12.7(1/2")Brazed -	12.7(1/2")Brazed -
Field drain pipe size		mm(in.)	O.D.32(1-1/4")	O.D.32(1-1/4")	O.D.32(1-1/4")	O.D.32(1-1/4")
Drawing	External		WKB94T671	WKB94T671	WKB94T671	WKB94T671
	Wiring		WKB94T687	WKB94T687	WKB94T687	WKB94T687
	Refrigerant cycle		-	-	-	-
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory		Drain hose	Drain hose	Drain hose	Drain hose
Optional parts	Wired Remote Controller		PAR-21MAA	PAR-21MAA	PAR-21MAA	PAR-21MAA
	Wireless Remote Controller, Receiver		PAR-FL32MA-E, PAR-SA9CA-E			
	IT terminal		S-MAC-127PT			
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specifications may be subject to change without notice.			

Notes :

1.Nominal cooling conditions
Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB)
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
2.Nominal heating conditions
Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB)
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
3.The external static pressure is set to 5 Pa at factory shipment.
4.Sound pressure level measured in anechoic room (External static pressure setting to 5 Pa).

Unit converter	
kcal	=kW x 860
BTU/h	=kW x 3,412
cfm	$=m^3$/min x 35.31
lbs	=kg / 0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model			PEFY-P45VMS-E-S	PEFY-P50VMS-E-S	PEFY-P56VMS-E-S	PEFY-P63VMS-E-S
Power source			1-phase 220V 50Hz	1-phase 220V 50Hz	1-phase 220V 50Hz	1-phase 220V 50Hz
Cooling capacity	*1	kW	5.0	5.6	6.3	7.1
(Nominal)	*1	kcal / h	4,300	4,800	5,400	6,100
	*1	BTU / h	17,100	19,100	21,500	24,200
Power input		kW	0.09	0.09	0.12	0.12
Current input		A	0.74	0.74	0.93	0.93
Heating capacity	*2	kW	5.6	6.3	7.1	8.0
(Nominal)	*2	kcal / h	4,800	5,400	6,100	6,900
	*2	BTU / h	19,100	21,500	24,200	27,300
Power input		kW	0.07	0.07	0.10	0.10
Current input		A	0.70	0.70	0.83	0.83
External finish			Galvanized	Galvanized	Galvanized	Galvanized
External dimension HxWxD		mm	200 x 990 x 700	200 x 990 x 700	200 x 1190 x 700	200 x 1190 x 700
		inch	7-7/8 x 39 x 27-9/16	7-7/8 x 39 x 27-9/16	7-7/8 x 46-7/8 x 27-9/16	7-7/8 x 46-7/8 x 27-9/16
Net weight		kg(lbs)	24(53)	24(53)	28(62)	28(62)
Heat exchanger			Cross fin(Aluminum fin and copper tube)			
FAN	Type x Quantity		Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4	Sirocco fan x 4
*3	External static press.	Pa	5 - 15 - 35 - 50	5 - 15 - 35 - 50	5 - 15 - 35 - 50	5 - 15 - 35 - 50
		mmH_2O	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1	0.5 - 1.5 - 3.6 - 5.1
	Motor Type		DC motor	DC motor	DC motor	DC motor
	Motor output	kW	0.096	0.096	0.096	0.096
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		m^3 / min	8.5 - 12.5 - 15.0	8.5 - 12.5 - 15.0	11.0 - 16.0 - 20.0	11.0 - 16.0 - 20.0
		L/s	142 - 208 - 250	142 - 208 - 250	183 - 267 - 333	183 - 267 - 333
		cfm	300 - 441 - 530	300 - 441 - 530	388 - 565 - 706	388 - 565 - 706
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
(rear inlet)	*4	dB <A>	29 - 33 - 34	29 - 33 - 34	32 - 33 - 36	32 - 33 - 36
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
(bottom inlet)	*4	dB <A>	32 - 39 - 43	32 - 39 - 43	34 - 39 - 45	34 - 39 - 45
Insulation material			Polystyrene foam, Polyethylene foam, Urethane foam			
Air filter			PP honeycomb fabric.			
Protection device			Fuse	Fuse	Fuse	Fuse
Refrigerant control device			LEV	LEV	LEV	LEV
Connectable outdoor unit			R410A CITY MULTI (Residential)			
Diameter of refrigerant pipe	Liquid (R410A) (R22, R407C)	mm(in.)	6.35(1/4")Brazed -	6.35(1/4")Brazed -	9.52(3/8")Brazed -	9.52(3/8")Brazed -
	Gas (R410A) (R22, R407C)	mm(in.)	12.7(1/2")Brazed -	12.7(1/2")Brazed -	15.88(5/8")Brazed -	15.88(5/8")Brazed -
Field drain pipe size		mm(in.)	O.D.32(1-1/4")	O.D.32(1-1/4")	O.D.32(1-1/4")	O.D.32(1-1/4")
Drawing	External		WKB94T671	WKB94T671	WKB94T671	WKB94T671
	Wiring		WKB94T687	WKB94T687	WKB94T687	WKB94T687
	Refrigerant cycle		-	-	-	-
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory		Drain hose	Drain hose	Drain hose	Drain hose
Optional parts	Wired Remote Controller		PAR-21MAA	PAR-21MAA	PAR-21MAA	PAR-21MAA
	Wireless Remote Controller, Receiver		PAR-FL32MA-E, PAR-SA9CA-E			
	IT terminal		S-MAC-127PT			
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specifications may be subject to change without notice.			

Notes :

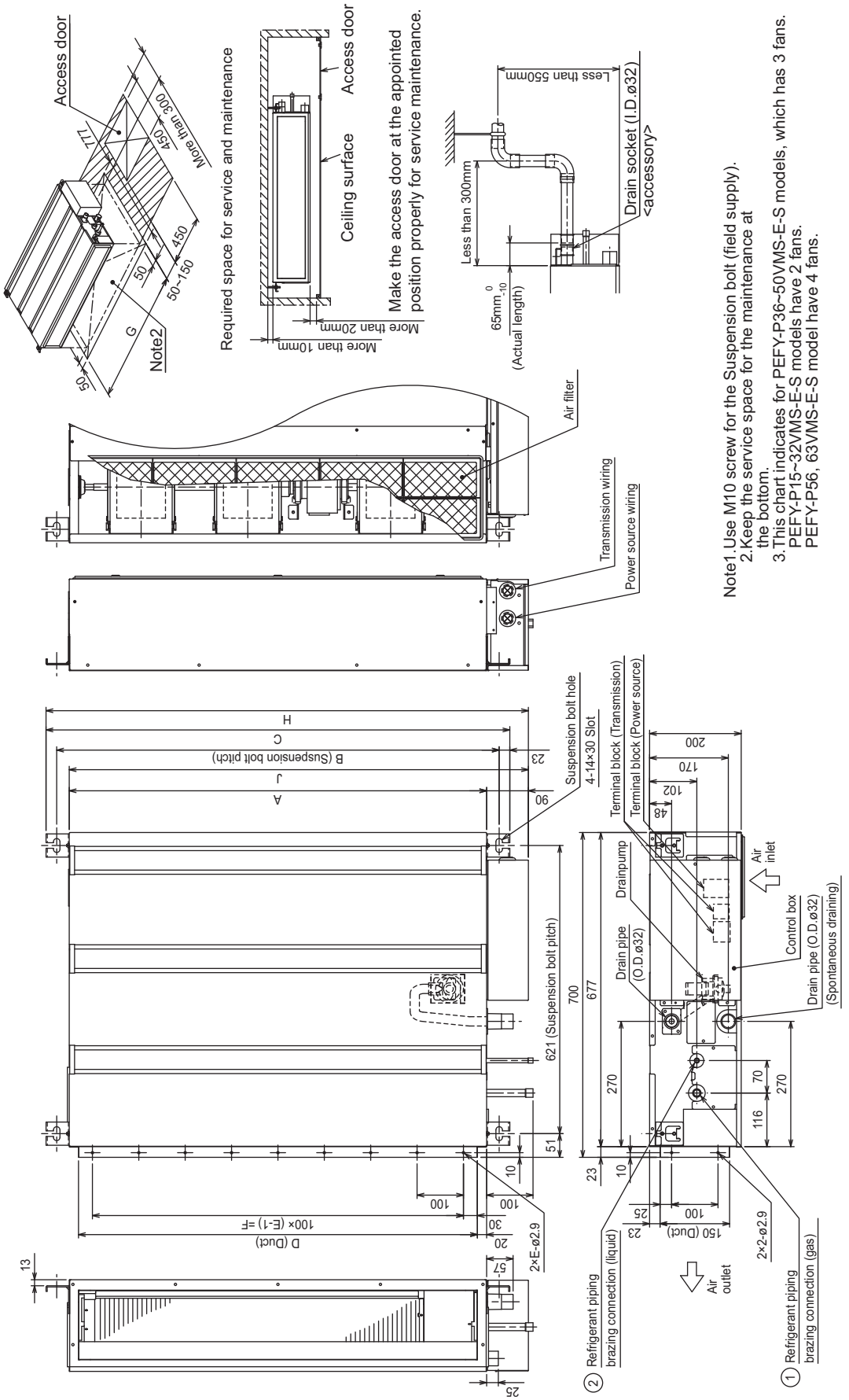
1.Nominal cooling conditions
Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB)
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
2.Nominal heating conditions
Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB)
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
3.The external static pressure is set to 5 Pa at factory shipment.
4.Sound pressure level measured in anechoic room (External static pressure setting to 5 Pa).

Unit converter	
kcal	=kW x 860
BTU/h	=kW x 3,412
cfm	$=m^3$/min x 35.31
lbs	=kg / 0.4536

*Above specification data is subject to rounding variation.

PEFY-P15, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56, 63VMS-E-S

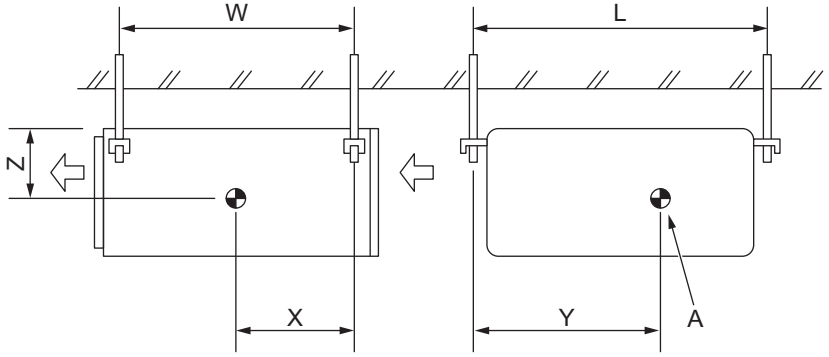
Unit : mm



Model	A	B	C	D	E	F	G	H	J	①Gas pipe	②Liquid pipe
PEFY-P15, 20, 22, 25, 28, 32VMS-E-S	700	754	800	660	7	600	800	840	790	ø12.7	ø6.35
PEFY-P36, 40, 45, 50VMS-E-S	900	954	1000	860	9	800	1000	1040	990		
PEFY-P56, 63VMS-E-S	1100	1154	1200	1060	11	1000	1200	1240	1190	ø15.88	ø9.52

PEFY-P15, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56, 63VMS-E-S

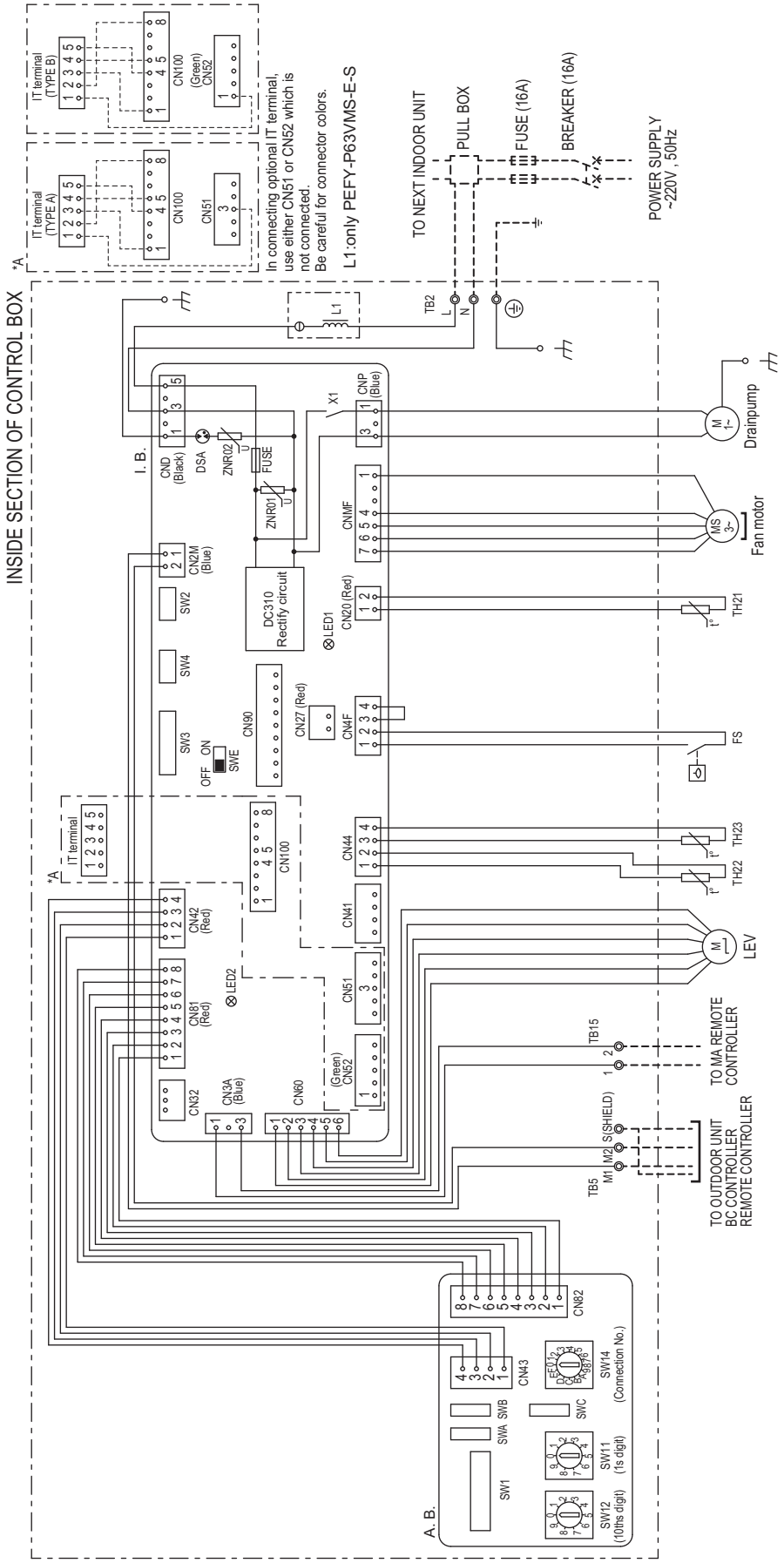
Unit : mm



A : Center of gravity

Model name	W	L	X	Y	Z	Product Weight(kg)
PEFY-P15VMS-E-S	625	752	263	338	105	19
PEFY-P20VMS-E-S	625	752	263	338	105	19
PEFY-P22, 25VMS-E-S	625	752	263	338	105	19
PEFY-P28, 32VMS-E-S	625	752	275	340	104	20
PEFY-P36, 40VMS-E-S	625	952	280	422	104	24
PEFY-P45, 50VMS-E-S	625	952	280	422	104	24
PEFY-P56, 63VMS-E-S	625	1152	285	511	104	28

PEFY-P15, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56, 63VMS-E-S



NOTE:Symbols used in wiring diagram above are,
---- (HEAVY DOTTED LINE) : FIELD WIRING
---- (THIN DOTTED LINE) : OPTIONAL PARTS
⊖ : CONNECTOR
◎ : TERMINAL

SYMBOL EXPLANATION

SYMBOL	NAME
I.B.	Indoor controller board
A.B.	Address board
TB2	Power source terminal block
TB5	Transmission terminal block
TB15	Transmission terminal block
FUSE	Fuse AC250V 6.3A
ZNR01,02	Varistor
DSA	Arrester
X1	Aux. relay
L1	AC reactor(Power factor improvement)
CN27	Connector (Damper)

SYMBOL	NAME
CN32	Connector (Remote switch)
CN41	Connector (HA terminal-A)
CN51	Connector (Centrally control)
CN52	Connector (Remote indication)
CN90	Connector (Wireless)
CN100	Connector (IT terminal)
FS	Float switch
TH21	Thermistor (inlet air temp.detection)
TH22	Thermistor (piping temp.detection/liquid)
TH23	Thermistor (piping temp.detection/gas)
SW2(I.B.)	Switch (for capacity code)

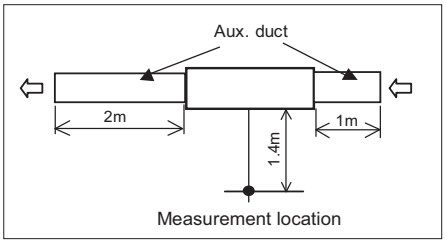
SYMBOL	NAME
SW3(I.B.)	Switch (for mode selection)
SW4(I.B.)	Switch (for model selection)
SWE(I.B.)	Connector (emergency operation)
SW1(A.B.)	Switch (for mode selection)
SW11(A.B.)	Switch (1s digit address set)
SW12(A.B.)	Switch (10ths digit address set)
SW14(A.B.)	Switch (connection No.set)
SWA(A.B.)	Switch (for static pressure selection)
SWB(A.B.)	Switch (for model selection)
SWC(A.B.)	Switch (for static pressure selection)

5. SOUND LEVELS

5-1. Sound levels

5-1-1. Sound levels (Rear inlet)

PEFY-P-VMS-E-S



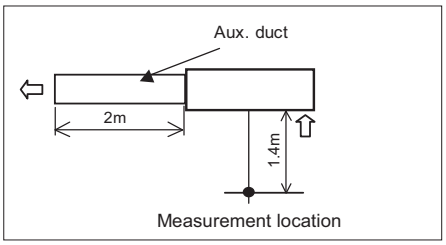
* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

Model	Sound level dB(A)
	5Pa
PEFY-P15VMS-E-S	27-28-30
PEFY-P20VMS-E-S	27-29-30
PEFY-P22VMS-E-S	27-30-32
PEFY-P25VMS-E-S	27-30-32
PEFY-P28VMS-E-S	29-31-33
PEFY-P32VMS-E-S	29-31-33
PEFY-P36VMS-E-S	28-30-32
PEFY-P40VMS-E-S	28-30-32
PEFY-P45VMS-E-S	29-33-34
PEFY-P50VMS-E-S	29-33-34
PEFY-P56VMS-E-S	32-33-36
PEFY-P63VMS-E-S	32-33-36

5-1-2. Sound levels (Bottom inlet)

PEFY-P-VMS-E-S



* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

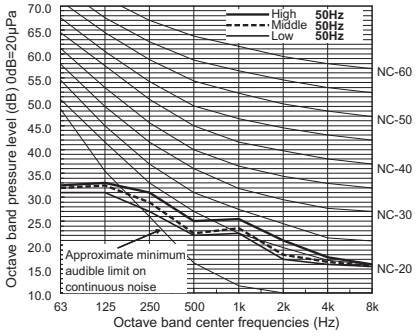
Model	Sound level dB(A)
	5Pa
PEFY-P15VMS-E-S	29-30-32
PEFY-P20VMS-E-S	30-31-34
PEFY-P22VMS-E-S	30-33-37
PEFY-P25VMS-E-S	30-33-37
PEFY-P28VMS-E-S	31-35-40
PEFY-P32VMS-E-S	31-35-40
PEFY-P36VMS-E-S	31-33-37
PEFY-P40VMS-E-S	31-33-37
PEFY-P45VMS-E-S	32-39-43
PEFY-P50VMS-E-S	32-39-43
PEFY-P56VMS-E-S	34-39-45
PEFY-P63VMS-E-S	34-39-45

5-2. NC curves

5-2-1. NC curves (Rear inlet)

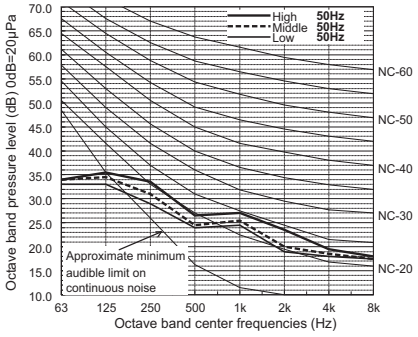
PEFY-P15VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



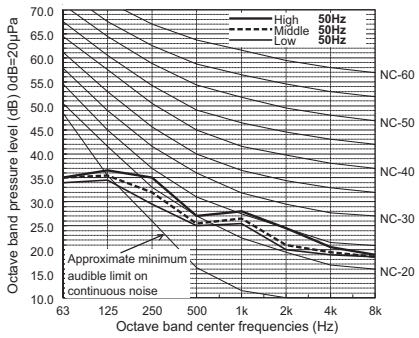
PEFY-P15VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



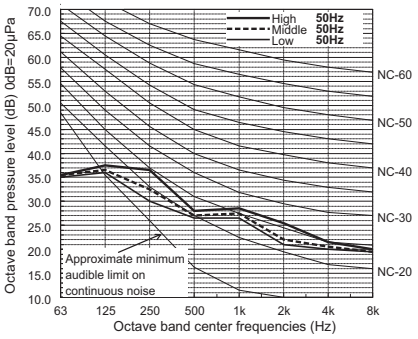
PEFY-P15VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



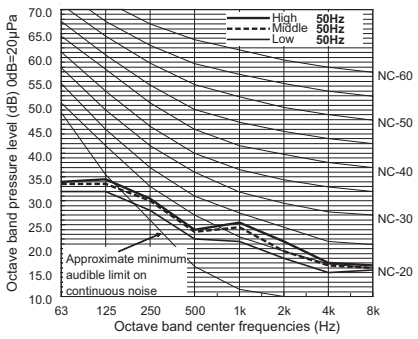
PEFY-P15VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V, 50Hz



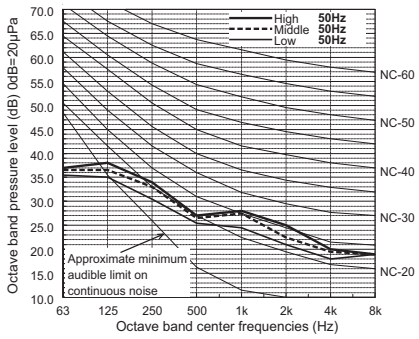
PEFY-P20VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



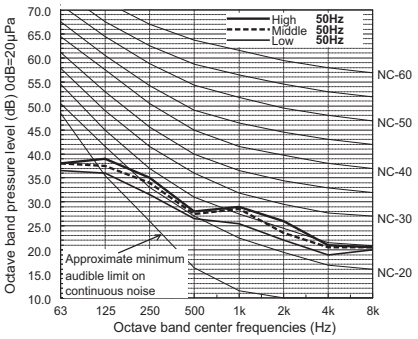
PEFY-P20VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



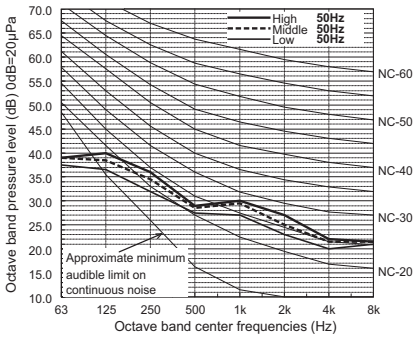
PEFY-P20VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



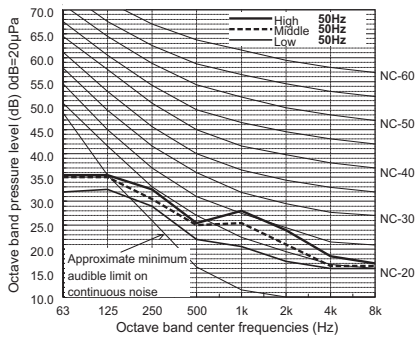
PEFY-P20VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V, 50Hz



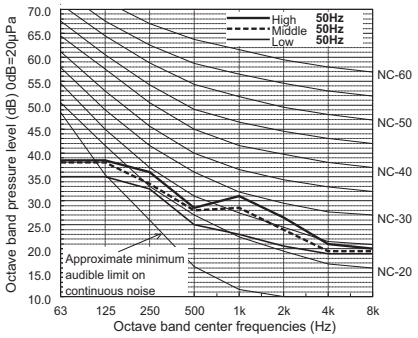
PEFY-P22VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V(50Hz)



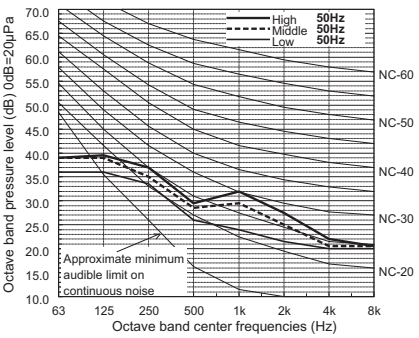
PEFY-P22VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V(50Hz)



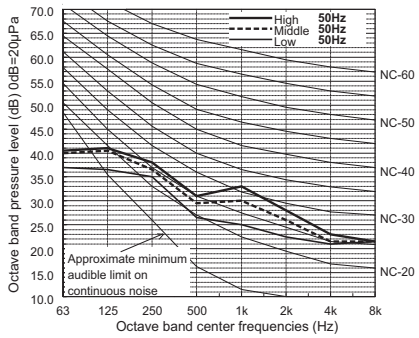
PEFY-P22VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



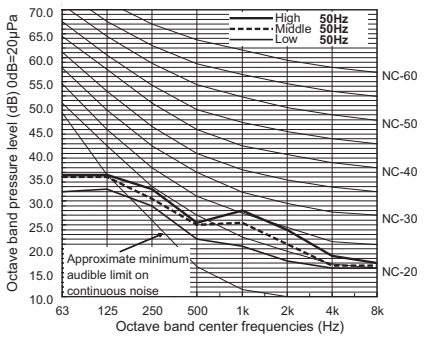
PEFY-P22VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



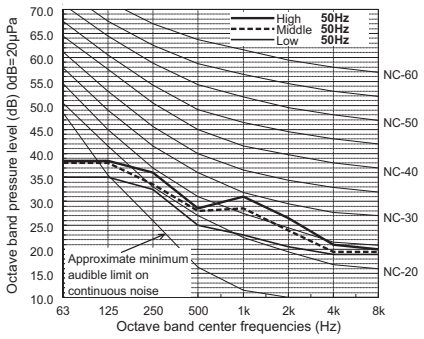
PEFY-P25VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



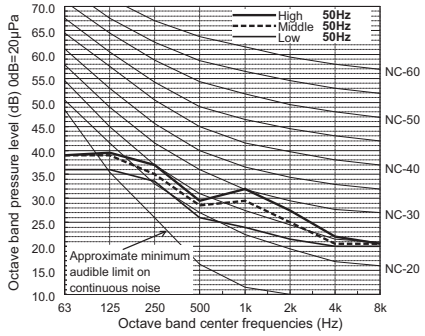
PEFY-P25VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



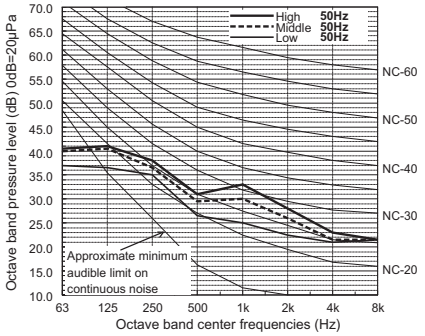
PEFY-P25VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



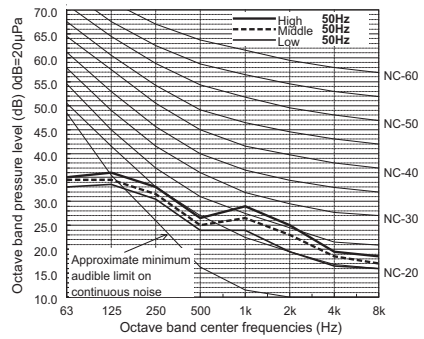
PEFY-P25VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V, 50Hz



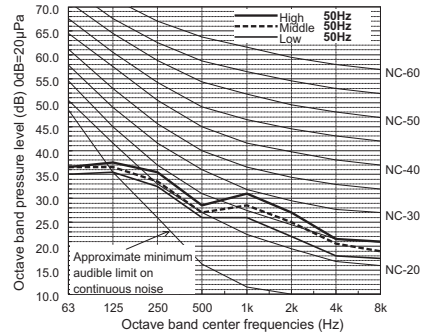
PEFY-P28VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V(50Hz)



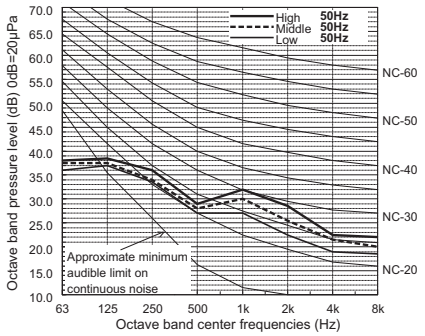
PEFY-P28VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V(50Hz)



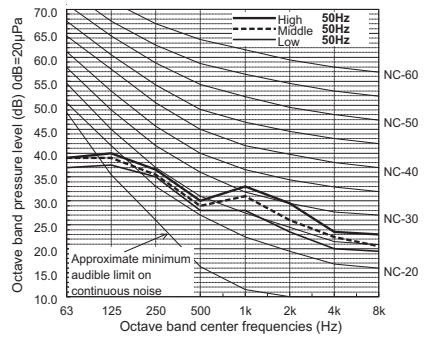
PEFY-P28VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



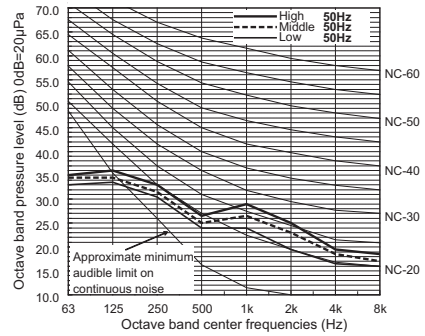
PEFY-P28VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



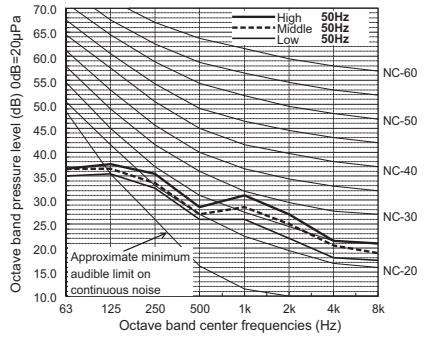
PEFY-P32VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



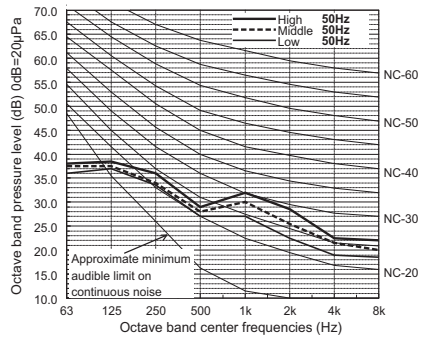
PEFY-P32VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



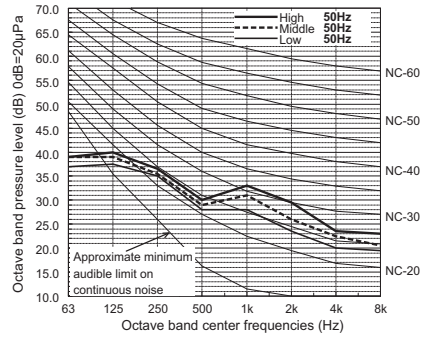
PEFY-P32VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



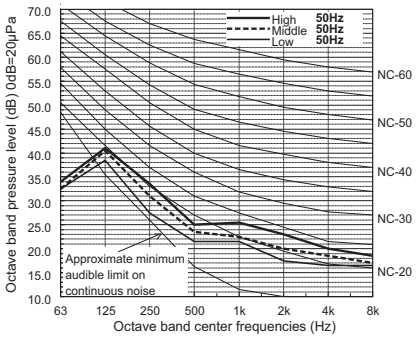
PEFY-P32VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V, 50Hz



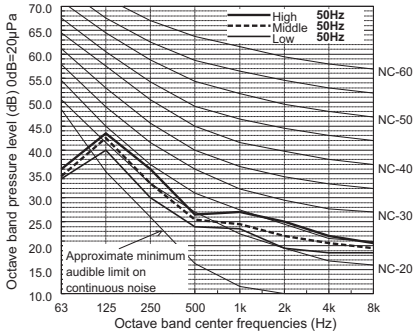
PEFY-P36VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V(50Hz)



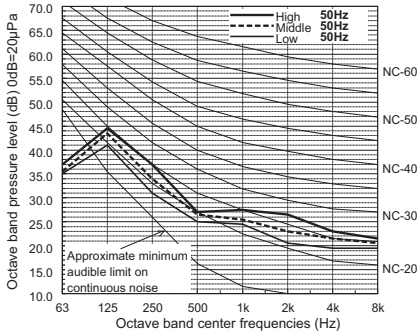
PEFY-P36VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V(50Hz)



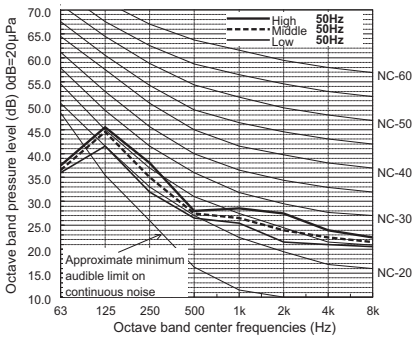
PEFY-P36VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



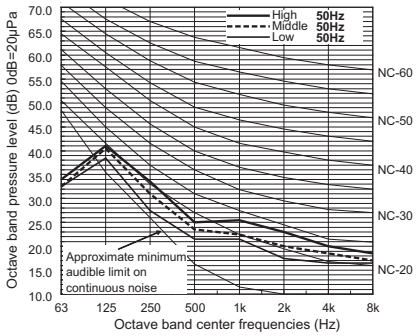
PEFY-P36VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



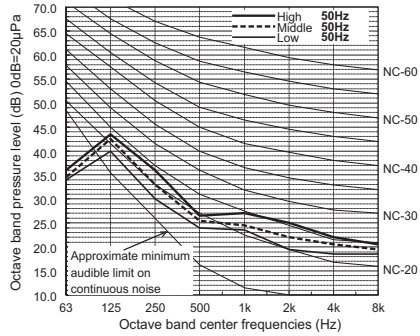
PEFY-P40VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



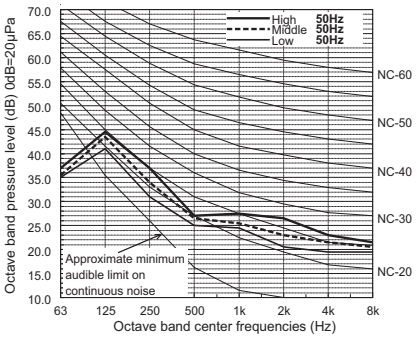
PEFY-P40VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



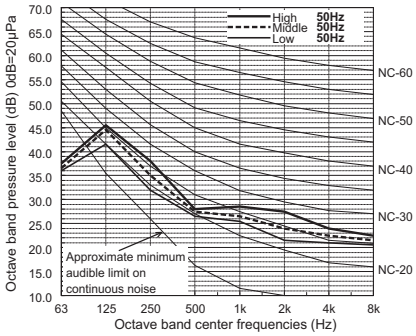
PEFY-P40VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



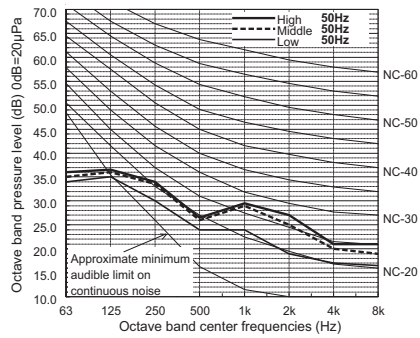
PEFY-P40VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V, 50Hz



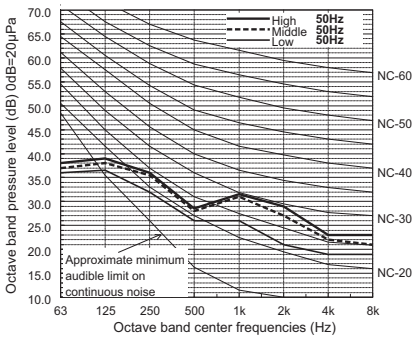
PEFY-P45VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V(50Hz)



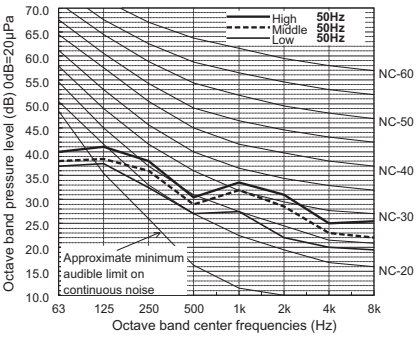
PEFY-P45VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V(50Hz)



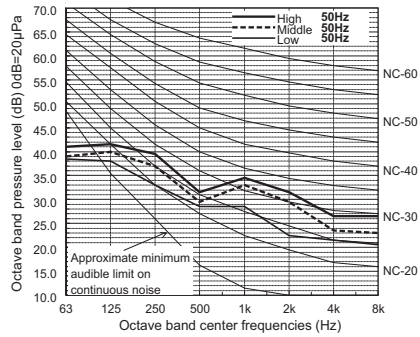
PEFY-P45VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



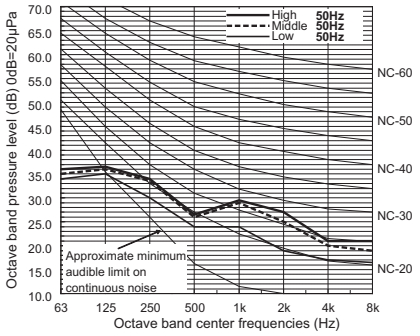
PEFY-P45VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



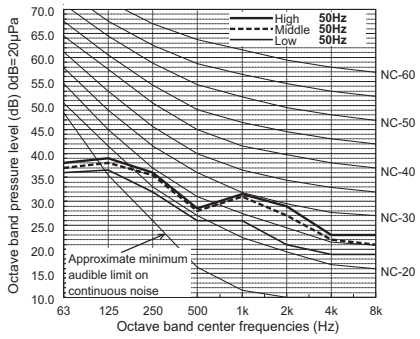
PEFY-P50VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



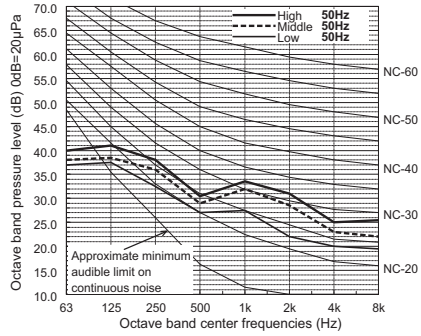
PEFY-P50VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



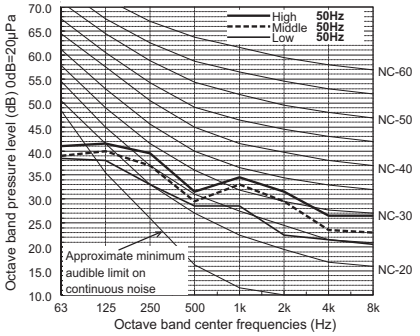
PEFY-P50VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



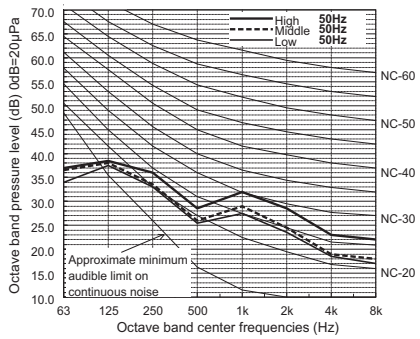
PEFY-P50VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V, 50Hz



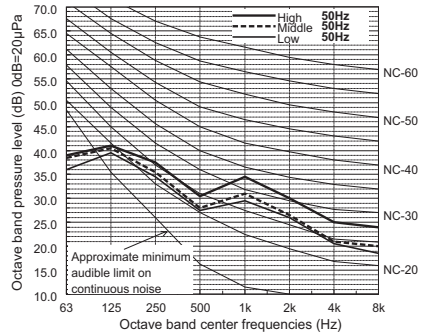
PEFY-P56VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V(50Hz)



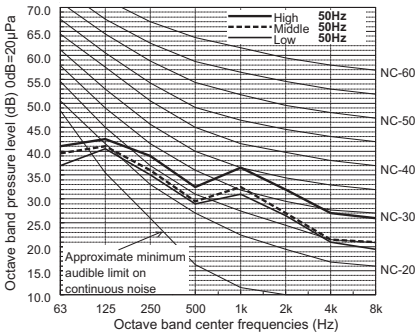
PEFY-P56VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V(50Hz)



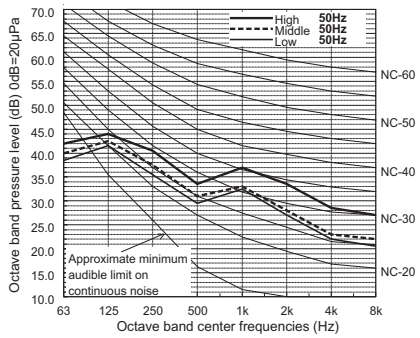
PEFY-P56VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



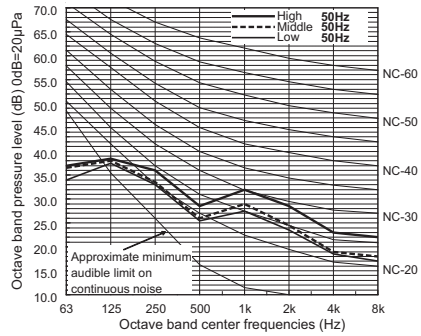
PEFY-P56VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



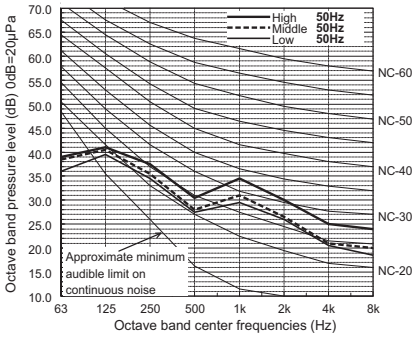
PEFY-P63VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



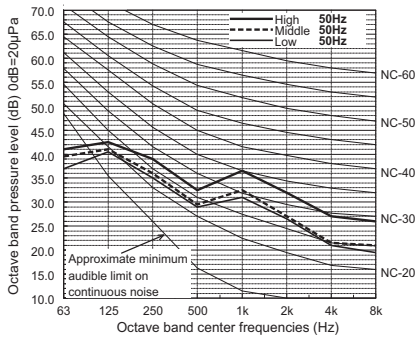
PEFY-P63VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



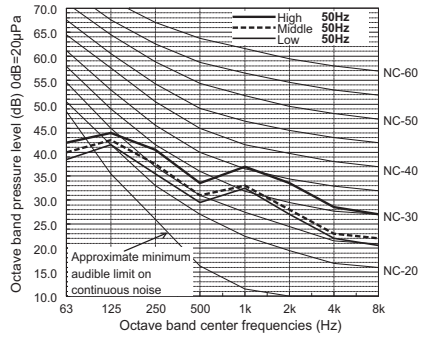
PEFY-P63VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



PEFY-P63VMS-E-S

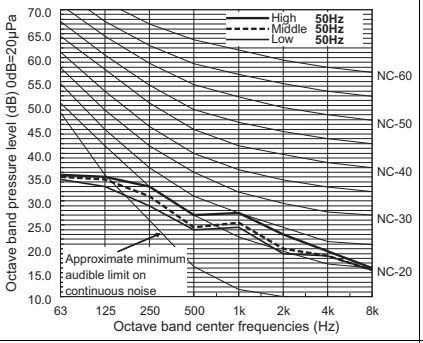
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



5-2-2. NC curves (Bottom inlet)

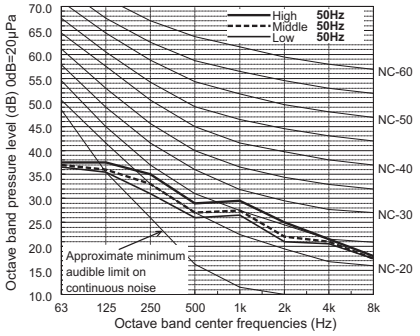
PEFY-P15VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



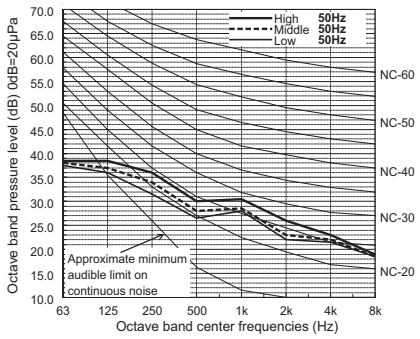
PEFY-P15VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



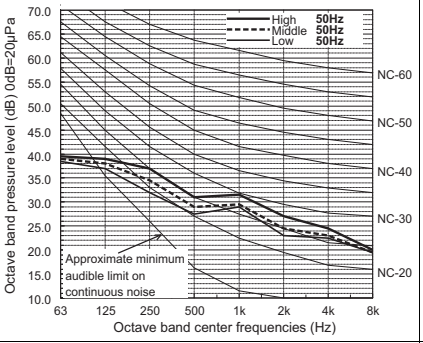
PEFY-P15VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



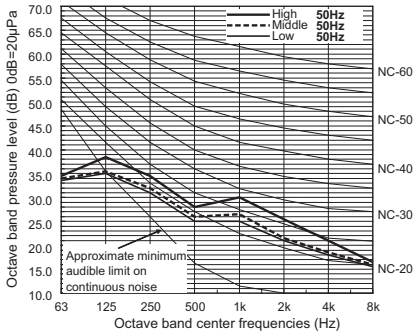
PEFY-P15VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V, 50Hz



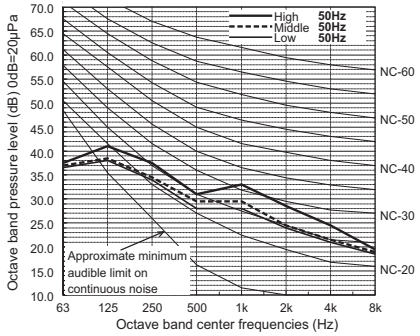
PEFY-P20VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



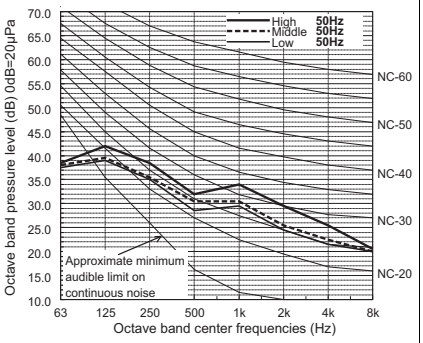
PEFY-P20VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



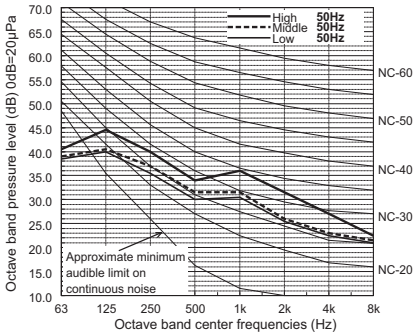
PEFY-P20VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



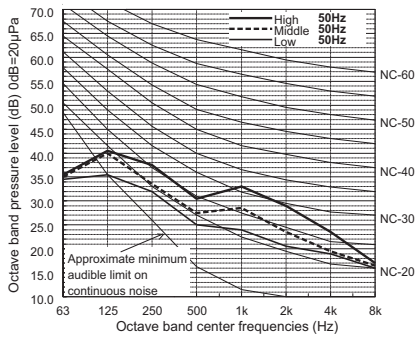
PEFY-P20VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V, 50Hz



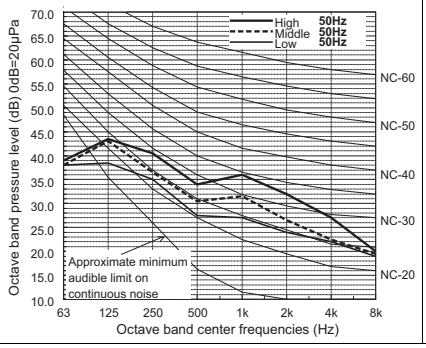
PEFY-P22VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V(50Hz)



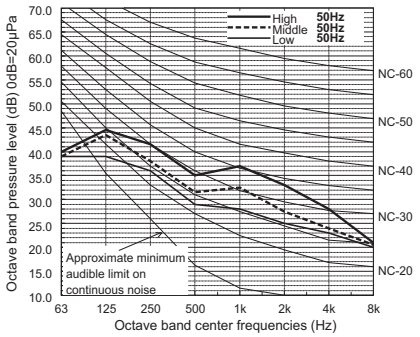
PEFY-P22VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V(50Hz)



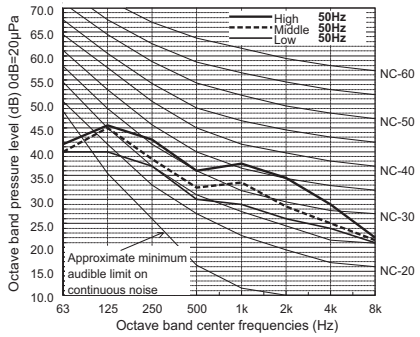
PEFY-P22VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



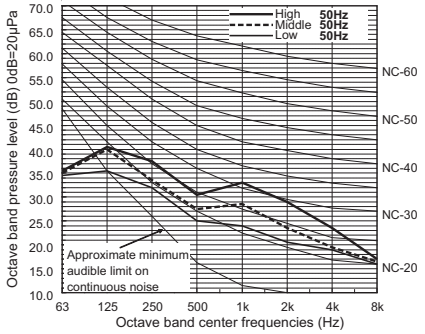
PEFY-P22VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



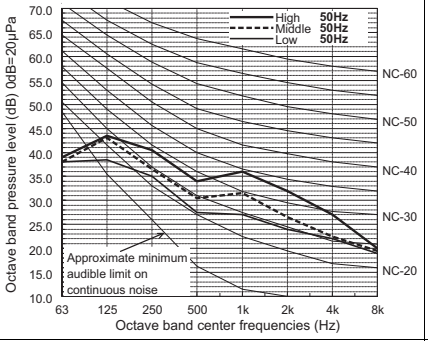
PEFY-P25VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



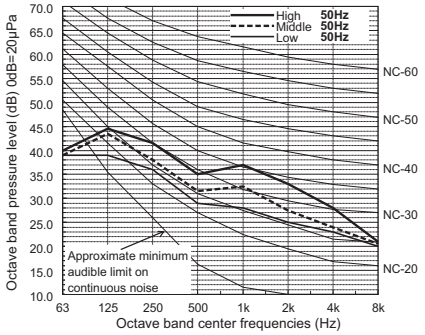
PEFY-P25VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



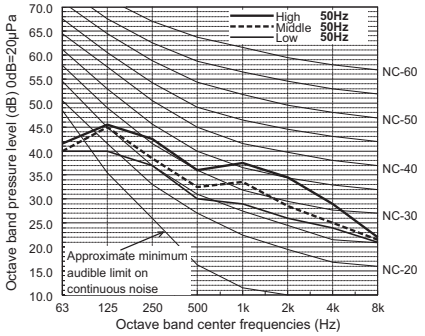
PEFY-P25VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



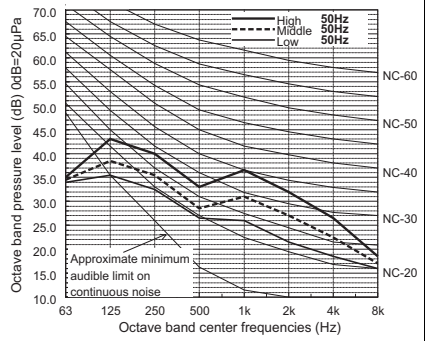
PEFY-P25VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V, 50Hz



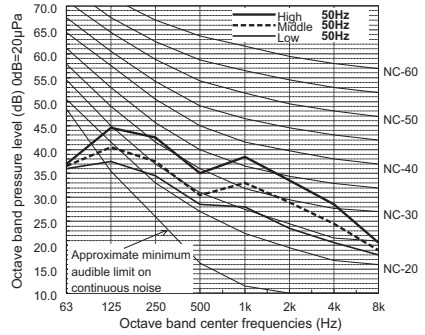
PEFY-P28VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V(50Hz)



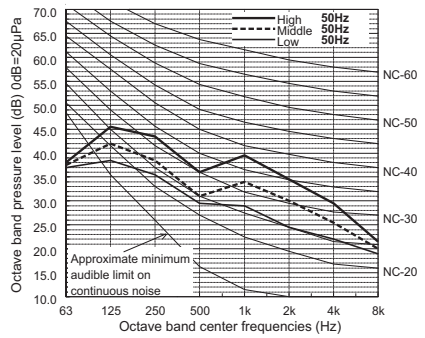
PEFY-P28VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V(50Hz)



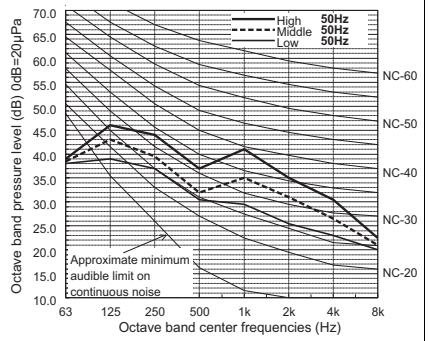
PEFY-P28VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



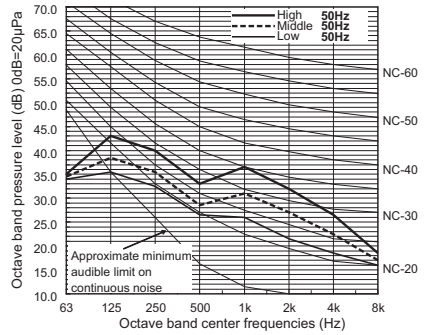
PEFY-P28VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



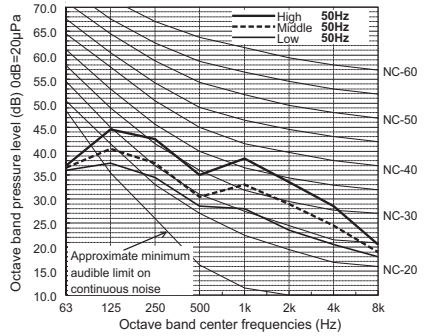
PEFY-P32VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



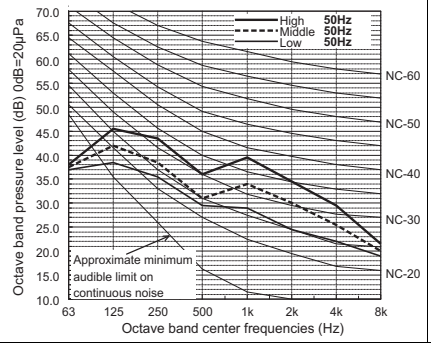
PEFY-P32VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



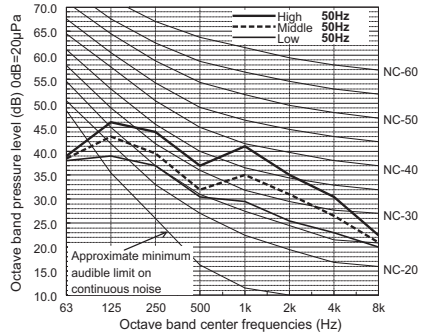
PEFY-P32VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



PEFY-P32VMS-E-S

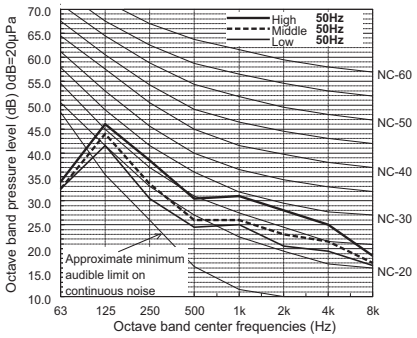
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



5. SOUND LEVELS

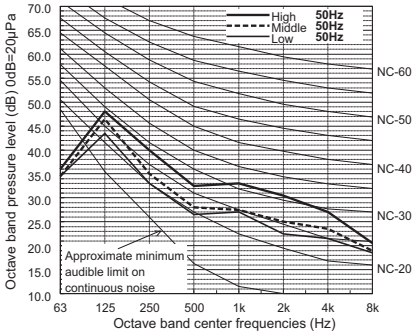
PEFY-P36VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V(50Hz)



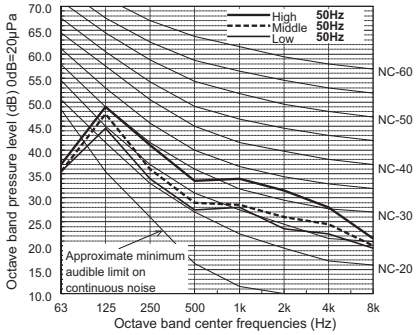
PEFY-P36VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V(50Hz)



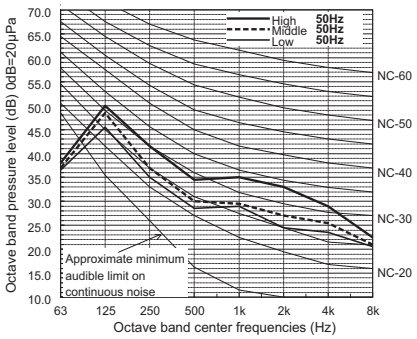
PEFY-P36VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



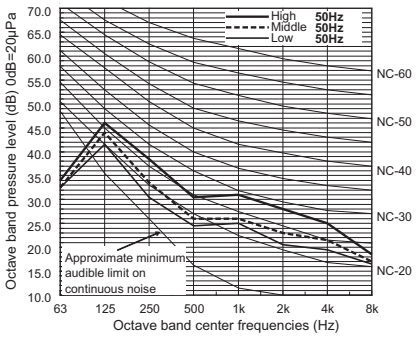
PEFY-P36VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



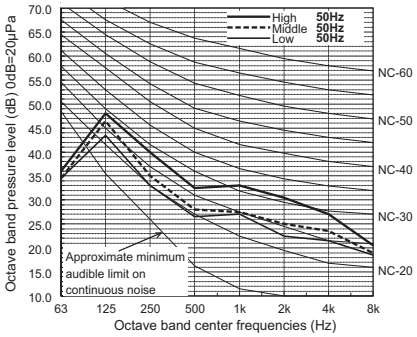
PEFY-P40VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



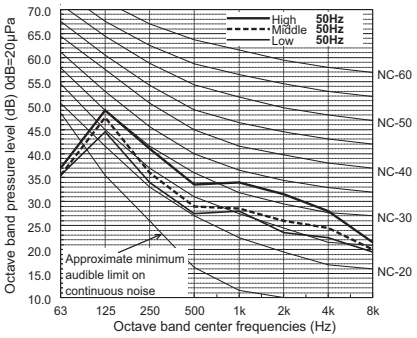
PEFY-P40VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



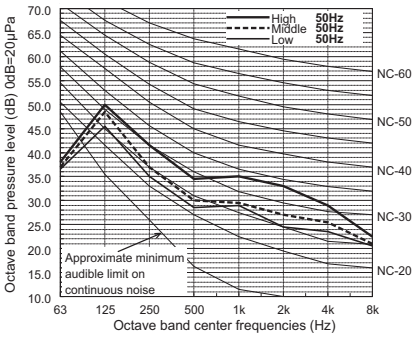
PEFY-P40VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



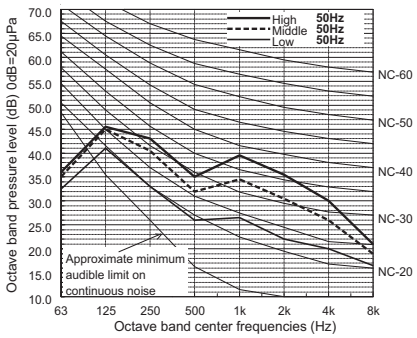
PEFY-P40VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V, 50Hz



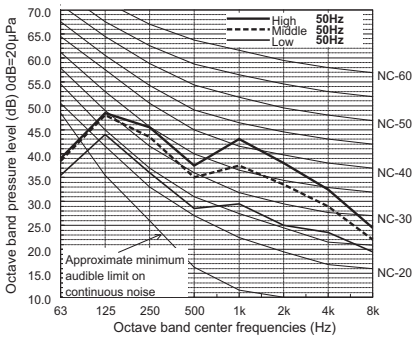
PEFY-P45VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V(50Hz)



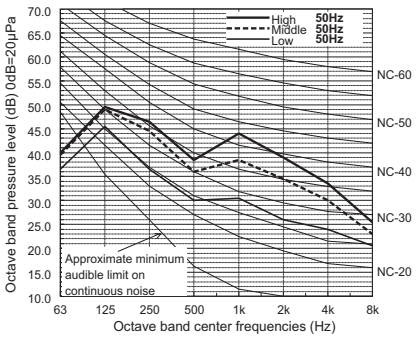
PEFY-P45VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V(50Hz)



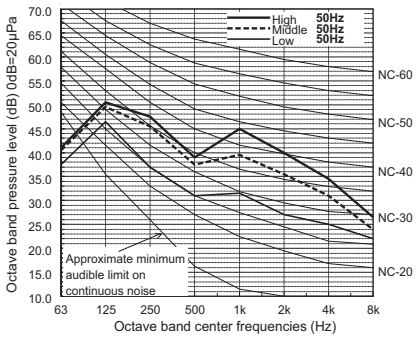
PEFY-P45VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



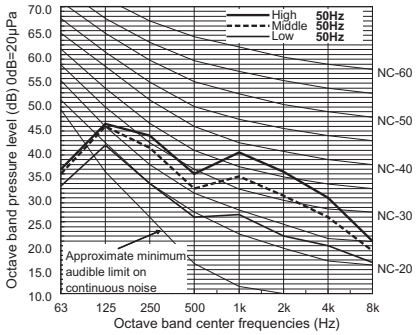
PEFY-P45VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



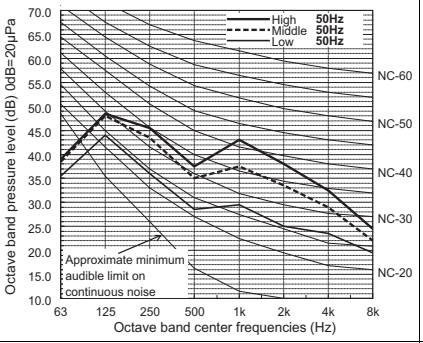
PEFY-P50VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



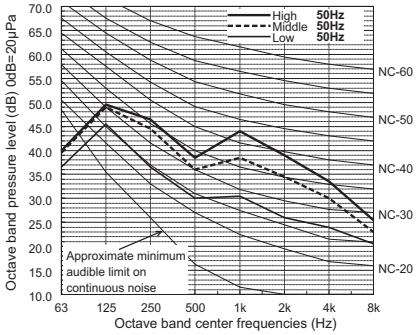
PEFY-P50VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



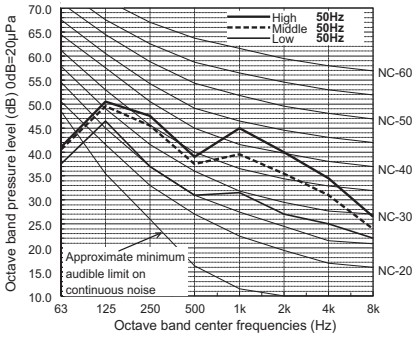
PEFY-P50VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



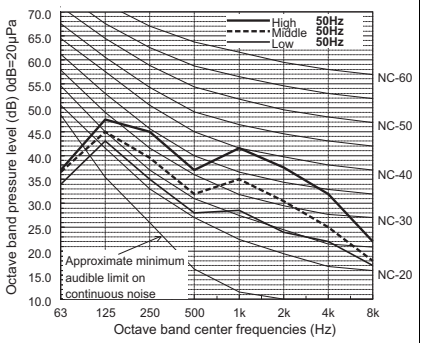
PEFY-P50VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V, 50Hz



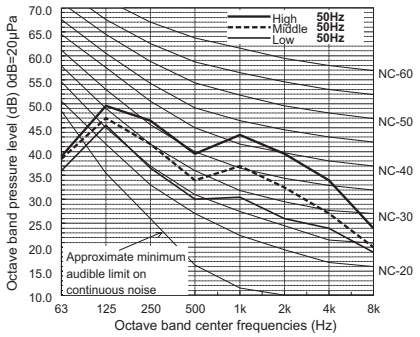
PEFY-P56VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V(50Hz)



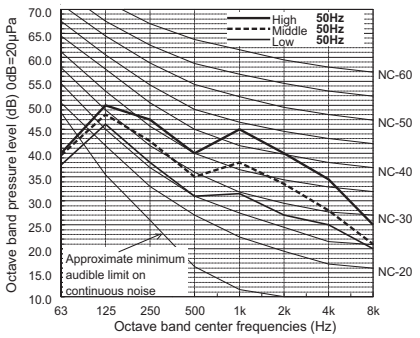
PEFY-P56VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V(50Hz)



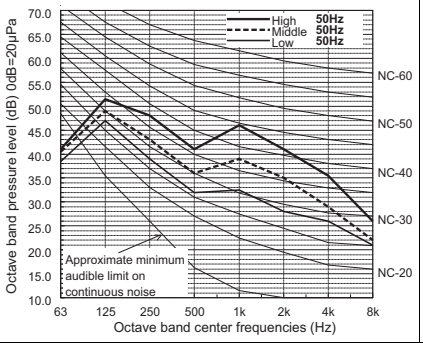
PEFY-P56VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



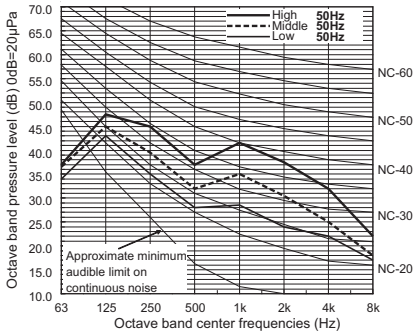
PEFY-P56VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



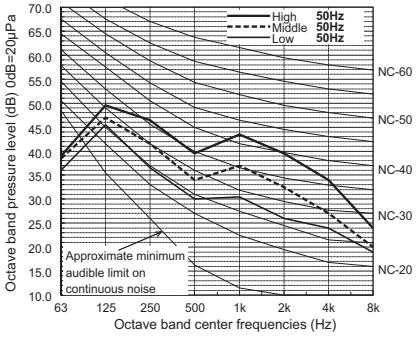
PEFY-P63VMS-E-S

External Static Pressure: 5Pa
Power Source: 220V, 50Hz



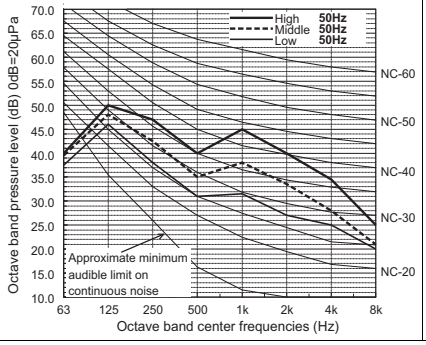
PEFY-P63VMS-E-S

External Static Pressure: 15Pa
Power Source: 220V, 50Hz



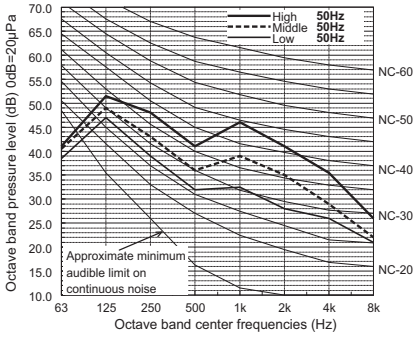
PEFY-P63VMS-E-S

External Static Pressure: 35Pa
Power Source: 220V, 50Hz



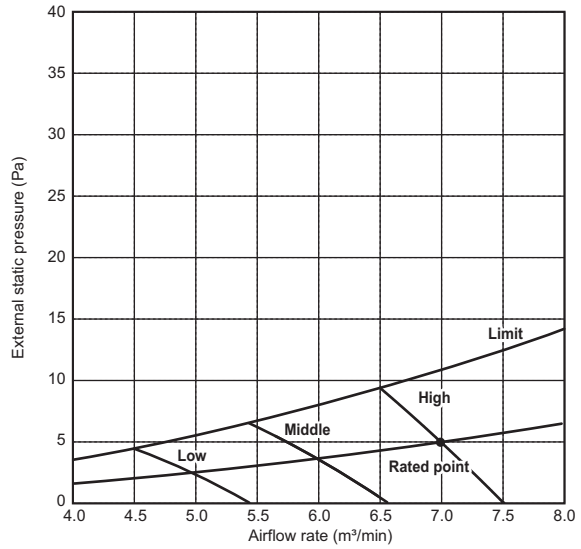
PEFY-P63VMS-E-S

External Static Pressure: 50Pa
Power Source: 220V, 50Hz

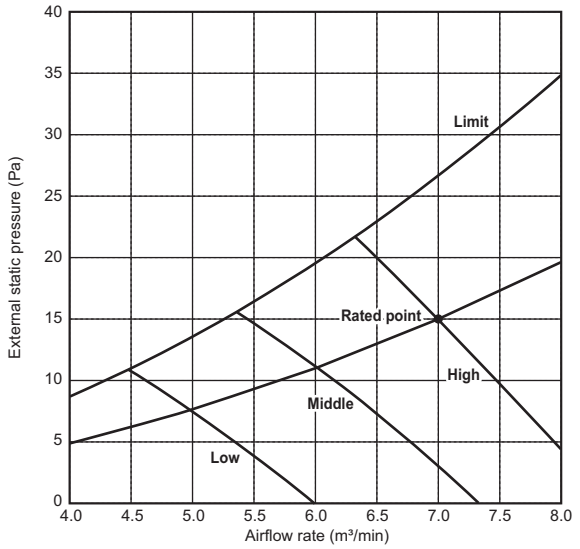


6. FAN CHARACTERISTICS CURVES

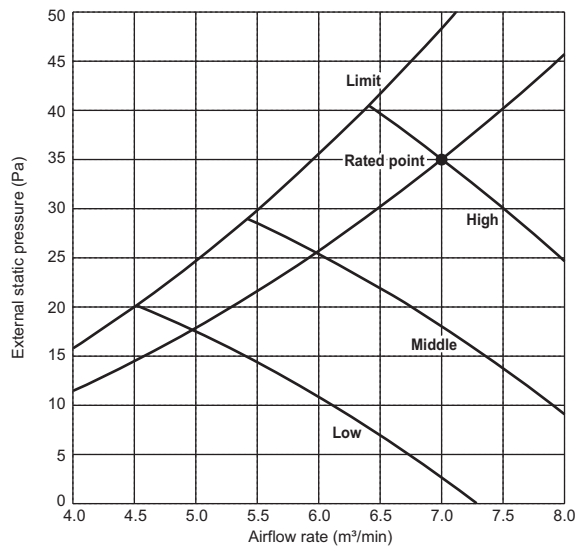
PEFY-P15VMS-E-S
External static pressure 5Pa : 220V 50Hz



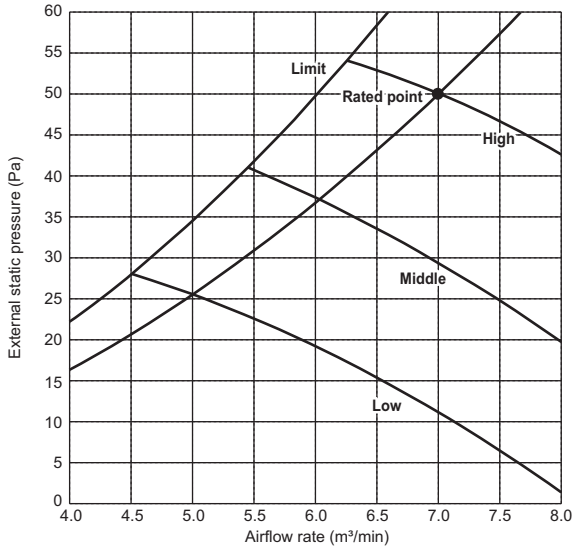
PEFY-P15VMS-E-S
External static pressure 15Pa : 220V 50Hz



PEFY-P15VMS-E-S
External static pressure 35Pa : 220V 50Hz

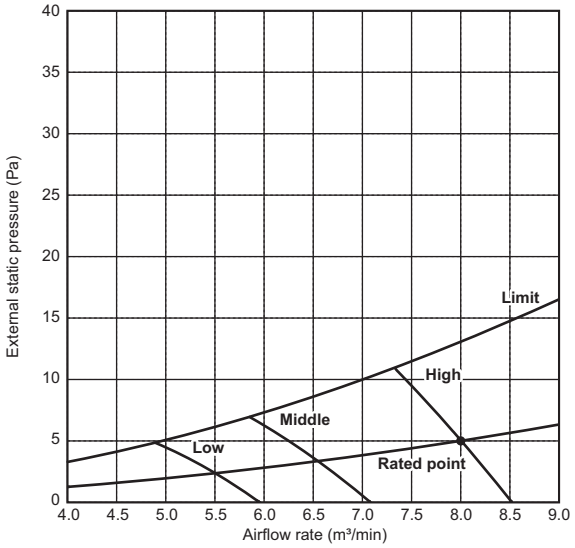


PEFY-P15VMS-E-S
External static pressure 50Pa : 220V 50Hz

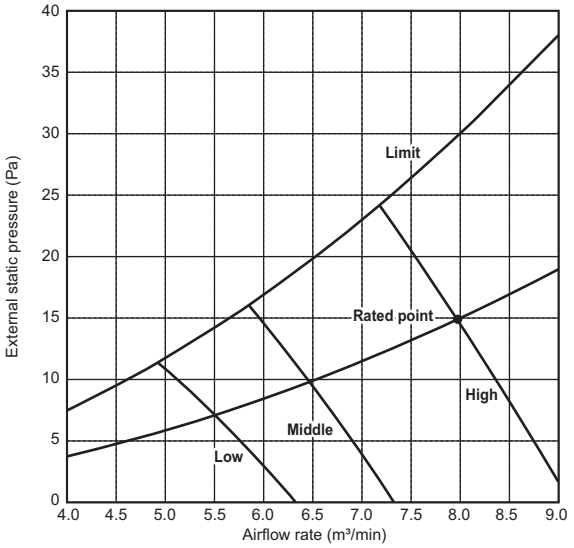


6. FAN CHARACTERISTICS CURVES

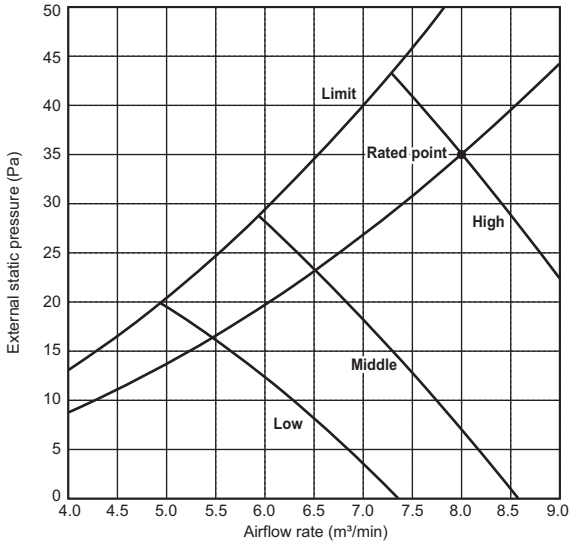
PEFY-P20VMS-E-S
External static pressure 5Pa : 220V 50Hz



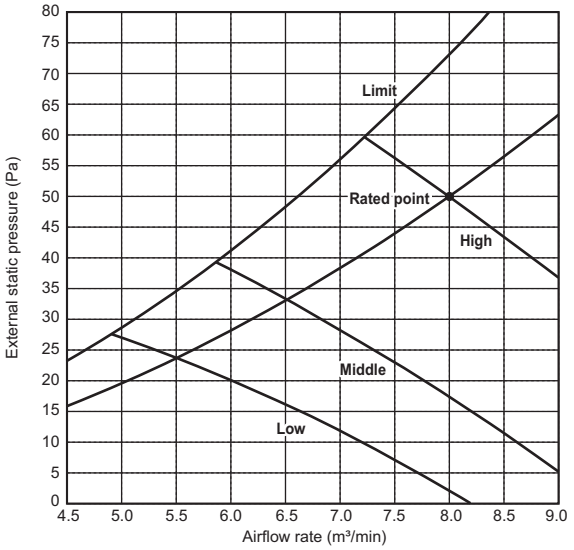
PEFY-P20VMS-E-S
External static pressure 15Pa : 220V 50Hz



PEFY-P20VMS-E-S
External static pressure 35Pa : 220V 50Hz

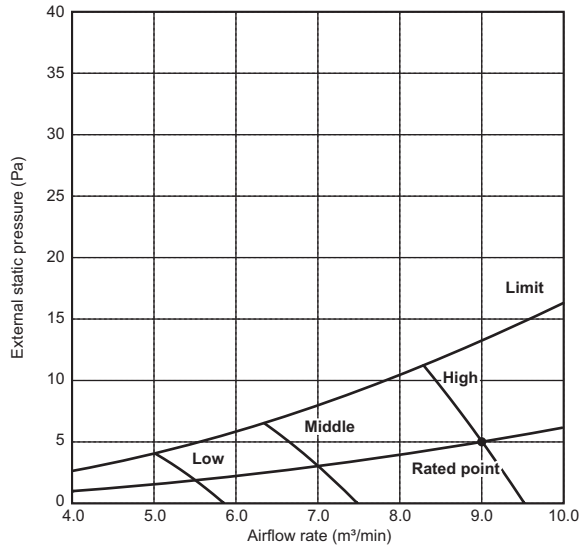


PEFY-P20VMS-E-S
External static pressure 50Pa : 220V 50Hz

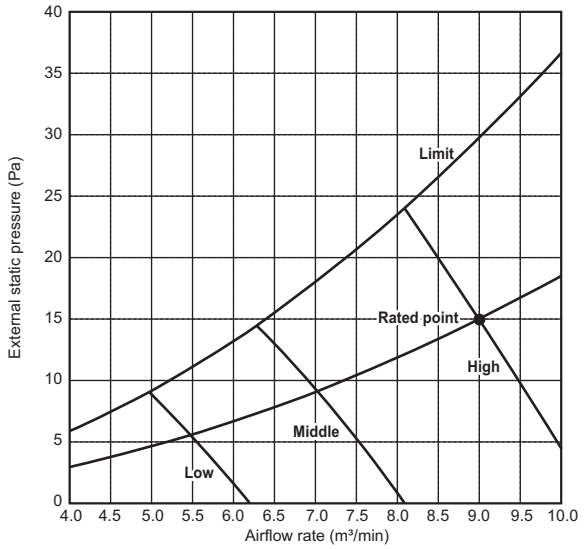


6. FAN CHARACTERISTICS CURVES

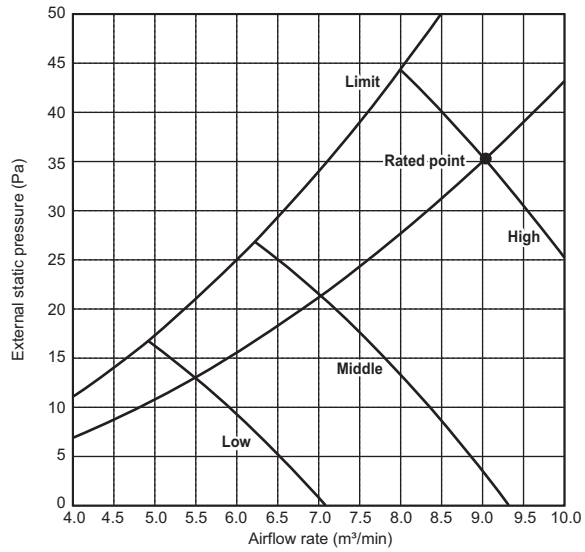
PEFY-P22, 25VMS-E-S
External static pressure 5Pa : 220V 50Hz



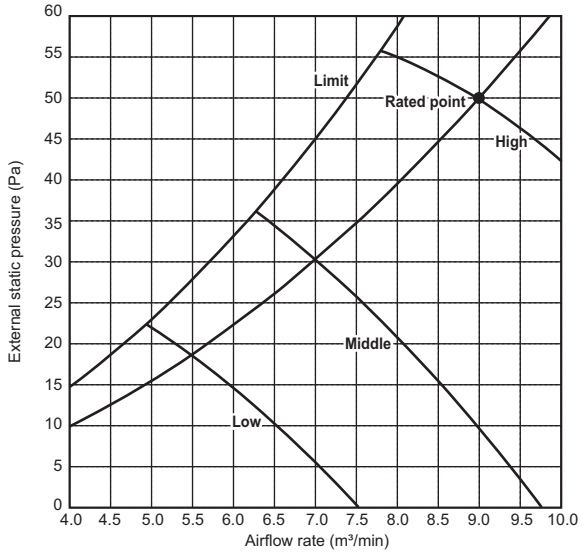
PEFY-P22, 25VMS-E-S
External static pressure 15Pa : 220V 50Hz



PEFY-P22, 25VMS-E-S
External static pressure 35Pa : 220V 50Hz

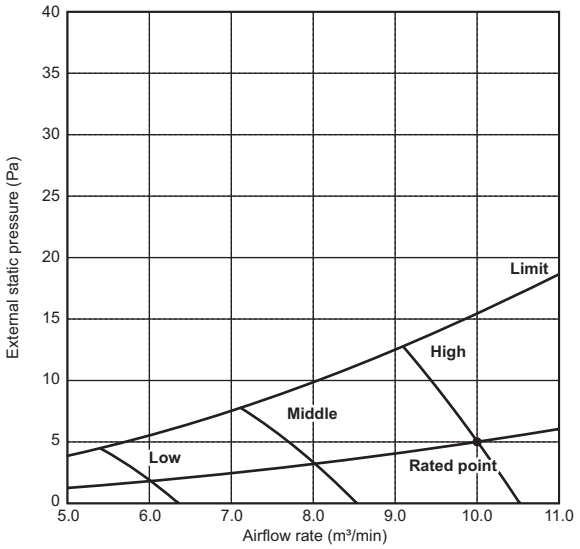


PEFY-P22, 25VMS-E-S
External static pressure 50Pa : 220V 50Hz

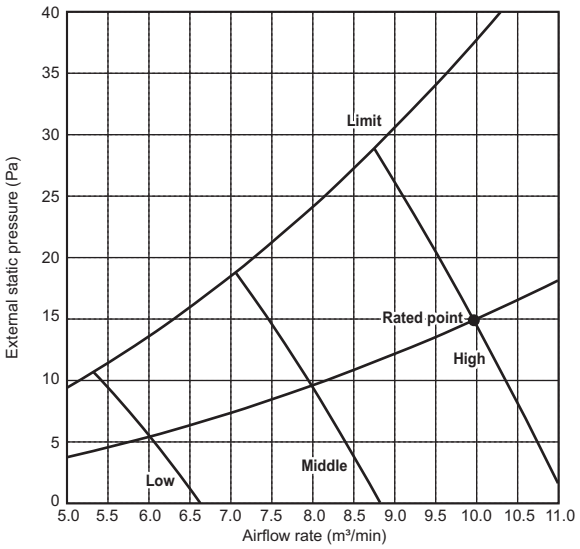


6. FAN CHARACTERISTICS CURVES

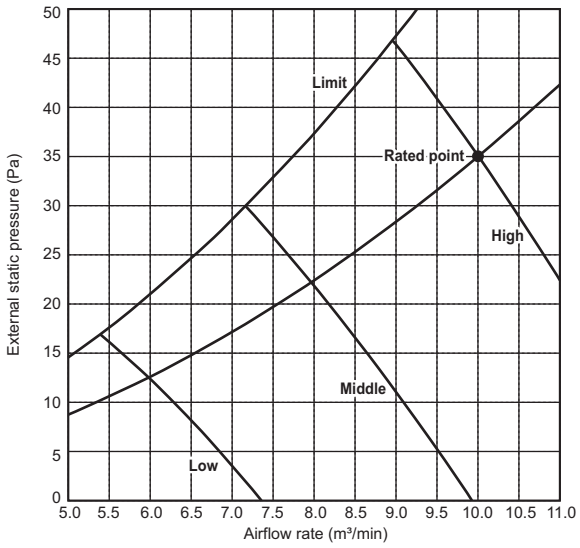
PEFY-P28, 32VMS-E-S
External static pressure 5Pa : 220V 50Hz



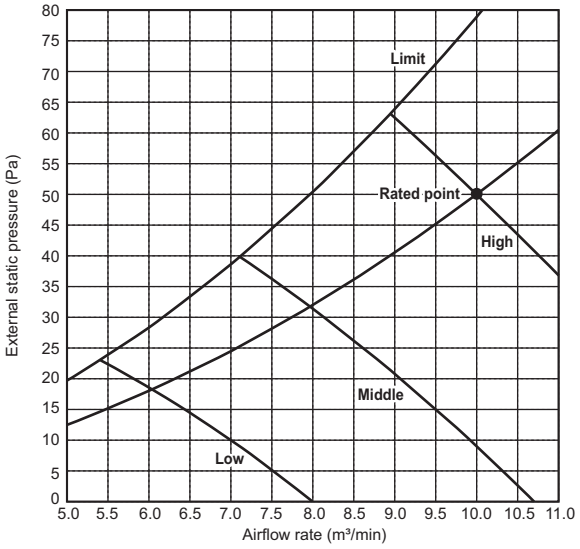
PEFY-P28, 32VMS-E-S
External static pressure 15Pa : 220V 50Hz



PEFY-P28, 32VMS-E-S
External static pressure 35Pa : 220V 50Hz

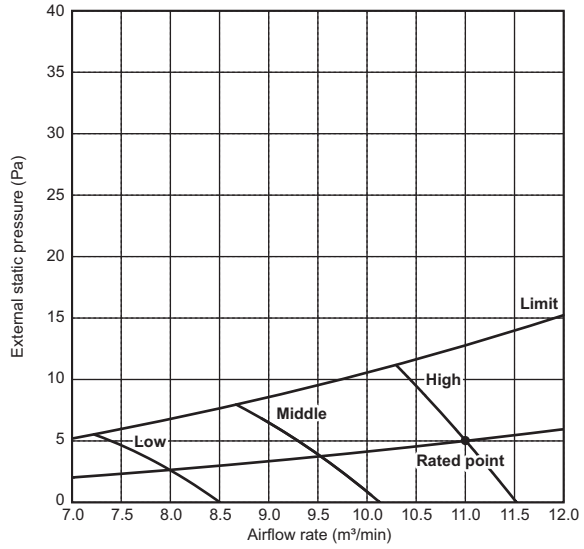


PEFY-P28, 32VMS-E-S
External static pressure 50Pa : 220V 50Hz

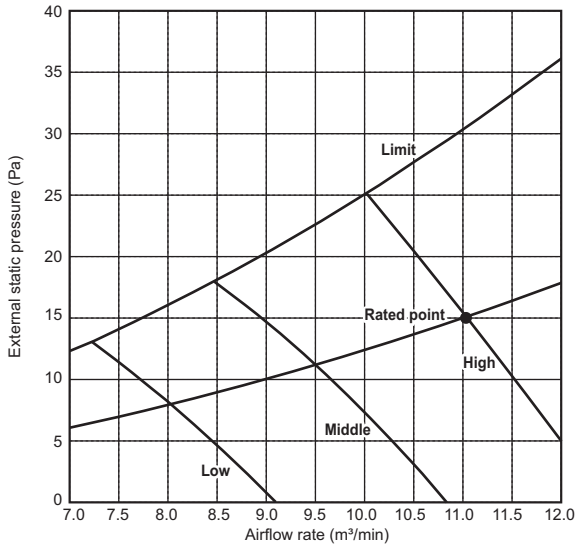


6. FAN CHARACTERISTICS CURVES

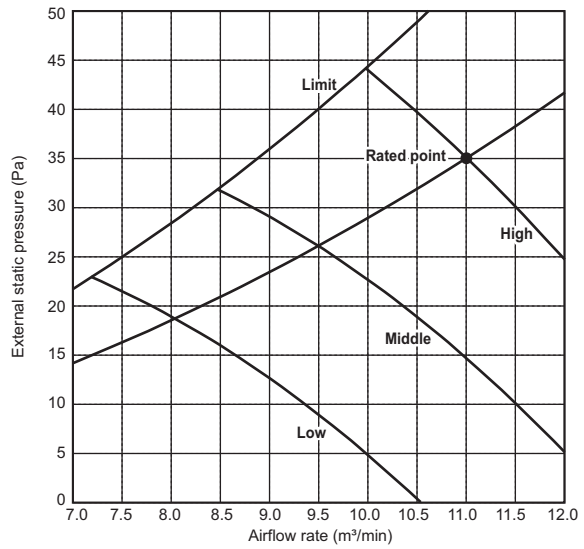
PEFY-P36, 40VMS-E-S
External static pressure 5Pa : 220V 50Hz



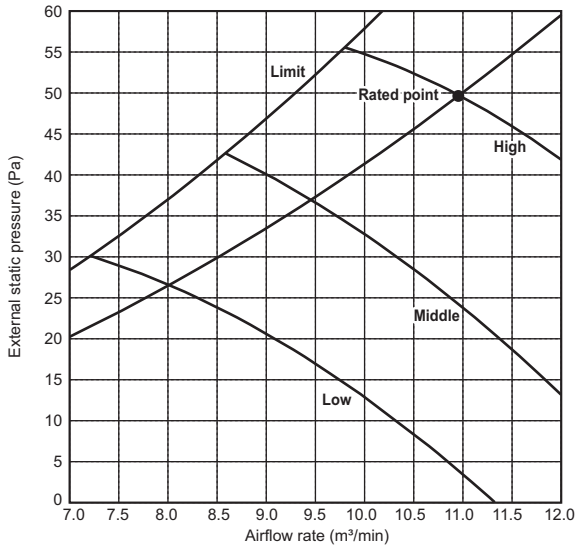
PEFY-P36, 40VMS-E-S
External static pressure 15Pa : 220V 50Hz



PEFY-P36, 40VMS-E-S
External static pressure 35Pa : 220V 50Hz

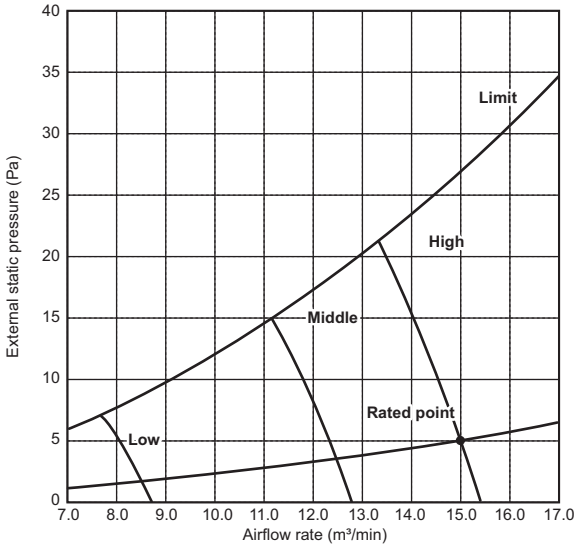


PEFY-P36, 40VMS-E-S
External static pressure 50Pa : 220V 50Hz

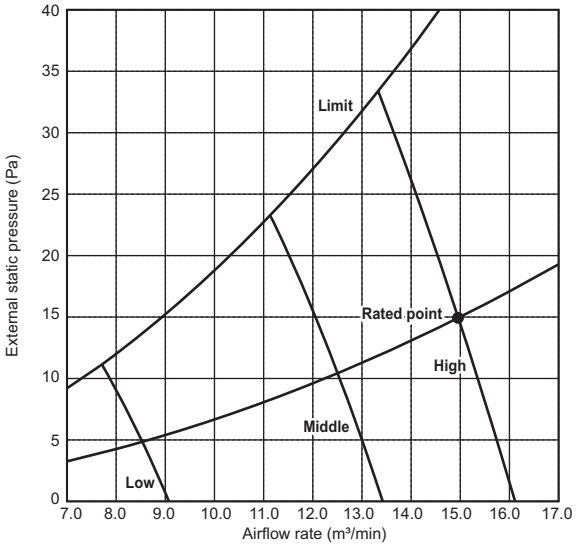


6. FAN CHARACTERISTICS CURVES

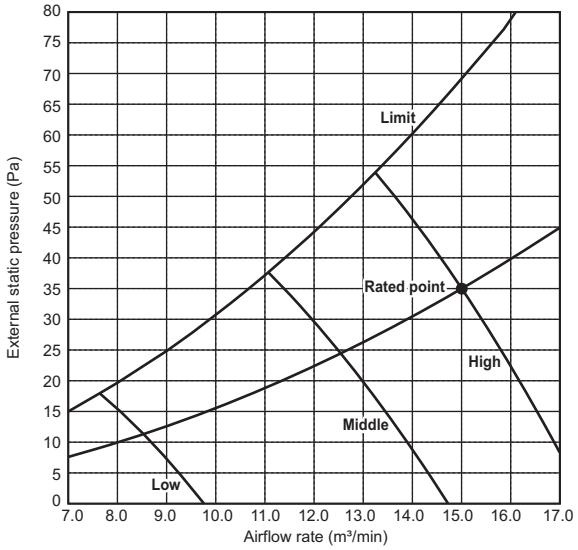
PEFY-P45, 50VMS-E-S
External static pressure 5Pa : 220V 50Hz



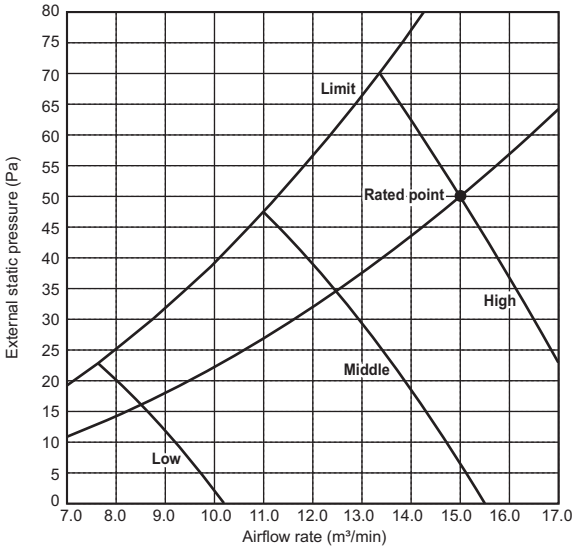
PEFY-P45, 50VMS-E-S
External static pressure 15Pa : 220V 50Hz



PEFY-P45, 50VMS-E-S
External static pressure 35Pa : 220V 50Hz

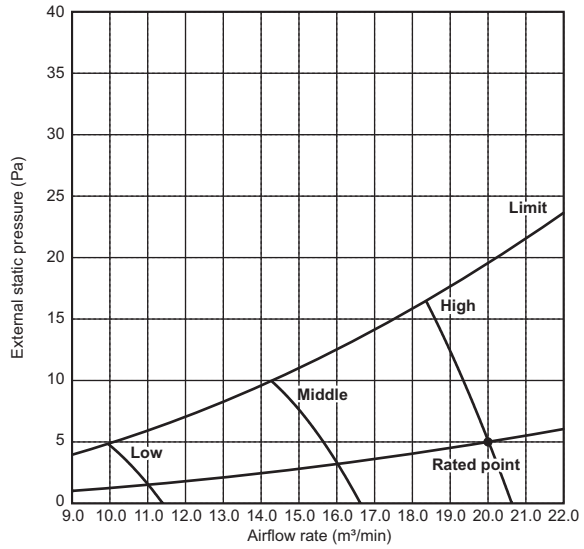


PEFY-P45, 50VMS-E-S
External static pressure 50Pa : 220V 50Hz

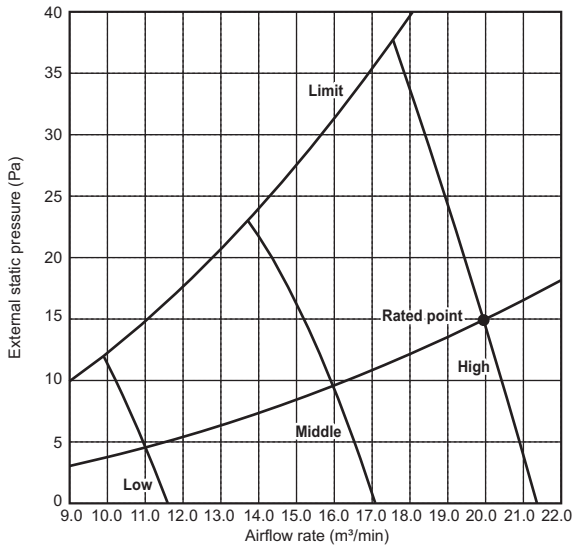


6. FAN CHARACTERISTICS CURVES

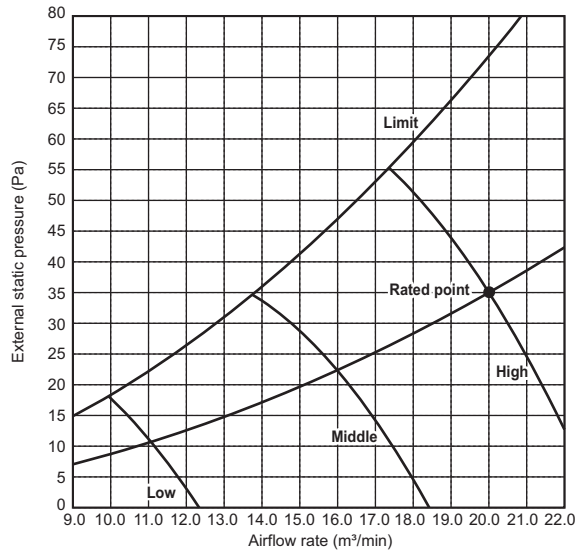
PEFY-P56, 63VMS-E-S
External static pressure 5Pa : 220V 50Hz



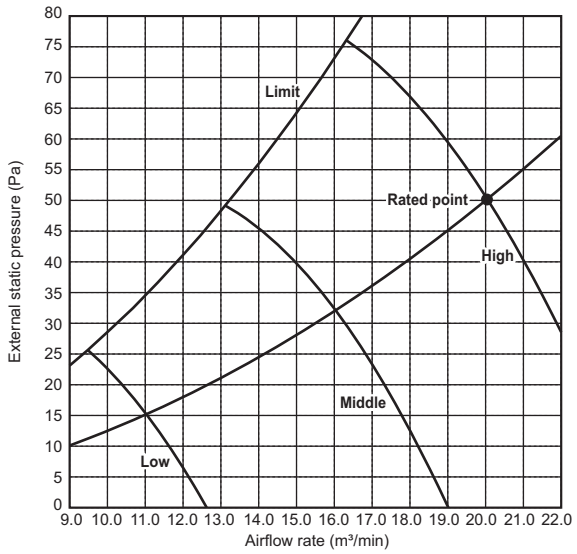
PEFY-P56, 63VMS-E-S
External static pressure 15Pa : 220V 50Hz



PEFY-P56, 63VMS-E-S
External static pressure 35Pa : 220V 50Hz



PEFY-P56, 63VMS-E-S
External static pressure 50Pa : 220V 50Hz



PEFY-P-VMM-E-S, PEFY-P-VMA-E-S

1. SPECIFICATIONS ..... 1 - 28
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1. SPECIFICATIONS

Model				PEFY-P20VMM-E-S	PEFY-P25VMM-E-S	PEFY-P32VMM-E-S	PEFY-P40VMM-E-S
Power source				1-phase 220-240V 50Hz	1-phase 220-240V 50Hz	1-phase 220-240V 50Hz	1-phase 220-240V 50Hz
Cooling capacity		*1	kW	2.2	2.8	3.6	4.5
(Nominal)		*1	kcal / h	1,900	2,400	3,100	3,900
		*1	BTU / h	7,500	9,600	12,300	15,400
	*2	Power input	kW	0.1	0.1	0.1	0.12
	*2	Current input	A	0.46	0.46	0.46	0.55
Heating capacity		*3	kW	2.5	3.2	4.0	5.0
(Nominal)		*3	kcal / h	2,200	2,800	3,400	4,300
		*3	BTU / h	8,500	10,900	13,600	17,100
	*2	Power input	kW	0.1	0.1	0.1	0.12
	*2	Current input	A	0.46	0.46	0.46	0.55
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension HxWxD			mm	295 x 815 x 700	295 x 815 x 700	295 x 815 x 700	295 x 935 x 700
			inch	11-5/8 x 32-1/8 x 27-9/16	11-5/8 x 32-1/8 x 27-9/16	11-5/8 x 32-1/8 x 27-9/16	11-5/8 x 36-13/16 x 27-9/16
Net weight			kg(lbs)	27(60)	27(60)	27(60)	33(73)
Heat exchanger				Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)
FAN	Type x Quantity			Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2
*4	External static press.		Pa	<30> - 50 - <100>	<30> - 50 - <100>	<30> - 50 - <100>	<30> - 50 - <100>
			mmH_2O	<3.1> - 5.1 - <10.2>	<3.1> - 5.1 - <10.2>	<3.1> - 5.1 - <10.2>	<3.1> - 5.1 - <10.2>
	Motor Type			1-phase induction motor	1-phase induction motor	1-phase induction motor	1-phase induction motor
	Motor output		kW	0.075	0.075	0.075	0.075
	Driving mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			m^3 / min	6.0 - 7.2 - 8.5	6.0 - 7.2 - 8.5	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0
			L/s	100 - 120 - 142	100 - 120 - 142	125 - 150 - 175	167 - 200 - 233
			cfm	212 - 254 - 300	212 - 254 - 300	265 - 318 - 371	353 - 424 - 494
Sound pressure level (measured in anechoic room)				(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		*2	dB <A>	27-30-32	27-30-32	28-32-35	31-35-37
Insulation material				Polyethylene foam	Polyethylene foam	Polyethylene foam	Polyethylene foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Protection device				Fuse	Fuse	Fuse	Fuse
Refrigerant control device				LEV	LEV	LEV	LEV
Connectable outdoor unit				R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Diameter of refrigerant pipe	Liquid (R410A)		mm(in.)	6.35(1/4) Flare	6.35(1/4) Flare	6.35(1/4) Flare	6.35(1/4) Flare
	Gas (R410A)		mm(in.)	12.7(1/2) Flare	12.7(1/2) Flare	12.7(1/2) Flare	12.7(1/2) Flare
Field drain pipe size			mm(in.)	Socket (R1) + R1(PT1) [O.D.34(1-11/32)]	Socket (R1) + R1(PT1) [O.D.34(1-11/32)]	Socket (R1) + R1(PT1) [O.D.34(1-11/32)]	Socket (R1) + R1(PT1) [O.D.34(1-11/32)]
Drawing	External			W661172	W661172	W661172	W661172
	Wiring			W660140	W660140	W660140	W660140
	Refrigerant cycle			-	-	-	-
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory			Insulation pipe for refrigerant pipe, Tie band	Insulation pipe for refrigerant pipe, Tie band	Insulation pipe for refrigerant pipe, Tie band	Insulation pipe for refrigerant pipe, Tie band
Optional parts	Drain pump			PAC-KE04DMC-F	PAC-KE04DMC-F	PAC-KE04DMC-F	PAC-KE04DMC-F
Remarks				Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. When the bottom inlet is used, the noise pressure level is 5 to 10 dB greater than when the rear inlet is used. Take appropriate noise reduction measures on site when using the bottom inlet.			

Notes :

1. Nominal cooling conditions
   Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB)
   Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
2. The values are measured at the factory setting of external static pressure.
3. Nominal heating conditions
   Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB)
   Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
4. The factory setting of external static pressure is shown without < >.
   Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

Unit converter

kcal	=kW x 860
BTU/h	=kW x 3,412
cfm	$=m^3$/min x 35.31
lbs	=kg / 0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model				PEFY-P50VMM-E-S	PEFY-P63VMM-E-S	PEFY-P71VMM-E-S	PEFY-P80VMM-E-S
Power source				1-phase 220-240V 50Hz	1-phase 220-240V 50Hz	1-phase 220-240V 50Hz	1-phase 220-240V 50Hz
Cooling capacity		*1	kW	5.6	7.1	8.0	9.0
(Nominal)		*1	kcal / h	4,800	6,100	6,900	7,700
		*1	BTU / h	19,100	24,200	27,300	30,700
	*2	Power input	kW	0.13	0.14	0.2	0.2
	*2	Current input	A	0.6	0.64	0.92	0.92
Heating capacity		*3	kW	6.3	8.0	9.0	10.0
(Nominal)		*3	kcal / h	5,400	6,900	7,700	8,600
		*3	BTU / h	21,500	27,300	30,700	34,100
	*2	Power input	kW	0.13	0.14	0.2	0.2
	*2	Current input	A	0.6	0.64	0.92	0.92
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension HxWxD			mm	295 x 935 x 700	295 x 1,175 x 700	295 x 1,175 x 700	295 x 1,175 x 700
			inch	11-5/8 x 36-13/16 x 27-9/16	11-5/8 x 46-5/16 x 27-9/16	11-5/8 x 46-5/16 x 27-9/16	11-5/8 x 46-5/16 x 27-9/16
Net weight			kg(lbs)	33(73)	42(93)	42(93)	42(93)
Heat exchanger				Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)
FAN	Type x Quantity			Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
*4	External static press.		Pa	<30> - 50 - <100>	<30> - 50 - <100>	<30> - 50 - <100>	<30> - 50 - <100>
			mmH_2O	<3.1> - 5.1 - <10.2>	<3.1> - 5.1 - <10.2>	<3.1> - 5.1 - <10.2>	<3.1> - 5.1 - <10.2>
	Motor Type			1-phase induction motor	1-phase induction motor	1-phase induction motor	1-phase induction motor
	Motor output		kW	0.075	0.078	0.078	0.078
	Driving mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			m^3 / min	12.0 - 14.5 - 17.0	13.5 - 16.2 - 19.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0
			L/s	200 - 242 - 283	225 - 270 - 317	242 - 300 - 350	242 - 300 - 350
			cfm	424 - 512 - 600	477 - 572 - 671	512 - 636 - 742	512 - 636 - 742
Sound pressure level (measured in anechoic room)				(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		*2	dB <A>	31-35-38	31-35-38	36-40-42	36-40-42
Insulation material				Polyethylene foam	Polyethylene foam	Polyethylene foam	Polyethylene foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Protection device				Fuse	Fuse	Fuse	Fuse
Refrigerant control device				LEV	LEV	LEV	LEV
Connectable outdoor unit				R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Diameter of refrigerant pipe	Liquid (R410A)		mm(in.)	6.35(1/4) Flare	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare
	Gas (R410A)		mm(in.)	12.7(1/2) Flare	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare
Field drain pipe size			mm(in.)	Socket (R1) + R1(PT1) [O.D.34(1-11/32)]	Socket (R1) + R1(PT1) [O.D.34(1-11/32)]	Socket (R1) + R1(PT1) [O.D.34(1-11/32)]	Socket (R1) + R1(PT1) [O.D.34(1-11/32)]
Drawing	External			W661172	W661172	W661172	W661172
	Wiring			W660140	W660140	W660140	W660140
	Refrigerant cycle			-	-	-	-
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory			Insulation pipe for refrigerant pipe, Tie band	Insulation pipe for refrigerant pipe, Tie band	Insulation pipe for refrigerant pipe, Tie band	Insulation pipe for refrigerant pipe, Tie band
Optional parts	Drain pump			PAC-KE04DMC-F	PAC-KE04DMC-F	PAC-KE04DMC-F	PAC-KE04DMC-F
Remarks				Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. When the bottom inlet is used, the noise pressure level is 5 to 10 dB greater than when the rear inlet is used. Take appropriate noise reduction measures on site when using the bottom inlet.			

Notes :

1.Nominal cooling conditions
Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB)
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
2.The values are measured at the factory setting of external static pressure.
3.Nominal heating conditions
Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB)
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
4.The factory setting of external static pressure is shown without < >.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

Unit converter

kcal	=kW x 860
BTU/h	=kW x 3,412
cfm	$=m^3$/min x 35.31
lbs	=kg / 0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model				PEFY-P100VMM-E-S	PEFY-P125VMM-E-S		
Power source				1-phase 220-240V 50Hz	1-phase 220-240V 50Hz		
Cooling capacity		*1	kW	11.2	14.0		
(Nominal)		*1	kcal / h	9,600	12,000		
		*1	BTU / h	38,200	47,800		
	*2	Power input	kW	0.3	0.4		
	*2	Current input	A	1.38	1.9		
Heating capacity		*3	kW	12.5	16.0		
(Nominal)		*3	kcal / h	10,800	13,800		
		*3	BTU / h	42,700	54,600		
	*2	Power input	kW	0.3	0.4		
	*2	Current input	A	1.38	1.9		
External finish				Galvanized steel plate	Galvanized steel plate		
External dimension HxWxD			mm	325 x 1,415 x 740	325 x 1,415 x 740		
			inch	12-13/16 x 55-3/4 x 29-3/16	12-13/16 x 55-3/4 x 29-3/16		
Net weight			kg(lbs)	62(137)	65(144)		
Heat exchanger				Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)		
FAN	Type x Quantity			Sirocco fan x 2	Sirocco fan x 2		
	*4 External static press.		Pa	50 - <110>	50 - <110>		
			mmH_2O	5.1 - <11.2>	5.1 - <11.2>		
	Motor Type			1-phase induction motor	1-phase induction motor		
	Motor output		kW	0.200	0.280		
	Driving mechanism			Direct-driven by motor	Direct-driven by motor		
	Air flow rate			(Low-High)	(Low-High)		
			m^3 / min	23.0 - 33.0	28.0 - 40.0		
			L/s	383 - 550	467 - 667		
			cfm	812 - 1,165	989 - 1,413		
Sound pressure level (measured in anechoic room)				(Low-High)	(Low-High)		
		*2	dB <A>	40-44	42-47		
Insulation material				Polyethylene foam	Polyethylene foam		
Air filter				PP honeycomb fabric.	PP honeycomb fabric.		
Protection device				Fuse	Fuse		
Refrigerant control device				LEV	LEV		
Connectable outdoor unit				R410A CITY MULTI	R410A CITY MULTI		
Diameter of refrigerant pipe	Liquid (R410A)		mm(in.)	9.52(3/8) Flare	9.52(3/8) Flare		
	Gas (R410A)		mm(in.)	15.88(5/8) Flare	15.88(5/8) Flare		
Field drain pipe size			mm(in.)	Socket (R1) + R1(PT1) [O.D.34(1-11/32)]	Socket (R1) + R1(PT1) [O.D.34(1-11/32)]		
Drawing	External			W660159	W660159		
	Wiring			W660141	W660141		
	Refrigerant cycle			-	-		
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book		
	Accessory			Insulation pipe for refrigerant pipe, Tie band	Insulation pipe for refrigerant pipe, Tie band		
Optional parts	Drain pump			PAC-KE04DMC-F	PAC-KE04DMC-F		
Remarks	Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. When the bottom inlet is used, the noise pressure level is 5 to 10 dB greater than when the rear inlet is used. Take appropriate noise reduction measures on site when using the bottom inlet.						

Notes :

1. Nominal cooling conditions
   Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB)
   Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
2. The values are measured at the factory setting of external static pressure.
3. Nominal heating conditions
   Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB)
   Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
4. The factory setting of external static pressure is shown without < >.
   Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

Unit converter

kcal	=kW x 860
BTU/h	=kW x 3,412
cfm	$=m^3$/min x 35.31
lbs	=kg / 0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model				PEFY-P20VMA-E-S	PEFY-P25VMA-E-S	PEFY-P32VMA-E-S	PEFY-P40VMA-E-S
Power source				1-phase 220 V 50 Hz	1-phase 220 V 50 Hz	1-phase 220 V 50 Hz	1-phase 220 V 50 Hz
Cooling capacity		*1	kW	2.2	2.8	3.6	4.5
(Nominal)		*1	kcal/h	1,900	2,400	3,100	3,900
		*1	BTU/h	7,500	9,600	12,300	15,400
	*2	Power input	kW	0.035	0.035	0.050	0.075
	*2	Current input	A	0.38	0.38	0.40	0.45
Heating capacity		*3	kW	2.5	3.2	4.0	5.0
(Nominal)		*3	kcal/h	2,200	2,800	3,400	4,300
		*3	BTU/h	8,500	10,900	13,600	17,100
	*2	Power input	kW	0.035	0.035	0.050	0.075
	*2	Current input	A	0.38	0.38	0.40	0.45
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension HxWxD			mm	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732	250 x 900 x 732
			in.	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8
Net weight			kg (lbs)	21 (47)	22 (49)	25 (56)	25 (56)
Heat exchanger				Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)
FAN	Type x Quantity			Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1
*4	External static press.		Pa	20 - <50> - <70> - <100> - <150>	20 - <50> - <70> - <100> - <150>	20 - <50> - <70> - <100> - <150>	20 - <50> - <70> - <100> - <150>
			mmH_2O	2.0 - <5.1> - <7.1> - <10.2> - <15.3>	2.0 - <5.1> - <7.1> - <10.2> - <15.3>	2.0 - <5.1> - <7.1> - <10.2> - <15.3>	2.0 - <5.1> - <7.1> - <10.2> - <15.3>
	Motor Type			DC motor	DC motor	DC motor	DC motor
	Motor output		kW	0.085	0.085	0.085	0.085
	Driving mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			m^3/min	6.0 - 7.5 - 8.5	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0	12.0 - 14.5 - 17.0
			L/s	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233	200 - 242 - 283
			cfm	212 - 265 - 300	265 - 318 - 371	353 - 424 - 494	424 - 512 - 600
Sound pressure level (measured in anechoic room)				(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		*2	dB <A>	29-30-31	30-31-32	31-33-34	31-34-36
Insulation material				EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Protection device				Fuse	Fuse	Fuse	Fuse
Refrigerant control device				-	LEV	LEV	LEV
Connectable outdoor unit				R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Refrigerant piping diameter	Liquid		mm (in.)	6.35(1/4")Brazed	6.35(1/4")Brazed	6.35(1/4")Brazed	6.35(1/4")Brazed
	Gas		mm (in.)	12.7(1/2")Brazed	12.7(1/2")Brazed	12.7(1/2")Brazed	12.7(1/2")Brazed
Field drain pipe size			mm (in.)	O.D.32(1-1/4")	O.D.32(1-1/4")	O.D.32(1-1/4")	O.D.32(1-1/4")
Drawing	External			WKD94T521	WKD94T521	WKD94T521	WKD94T521
	Wiring			WKD94T522	WKD94T522	WKD94T522	WKD94T522
	Refrigerant cycle			-	-	-	-
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory			Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band
Optional parts	Drain pump kit			PAC-KE08DM-E-S	PAC-KE08DM-E-S	PAC-KE08DM-E-S	PAC-KE08DM-E-S
	Filter box			PAC-KE91TB-E	PAC-KE91TB-E	PAC-KE92TB-E	PAC-KE92TB-E
Remarks				Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. When the bottom inlet is used, the noise pressure level is 5 to 10 dB greater than when the rear inlet is used. Take appropriate noise reduction measures on site when using the bottom inlet.			

Notes :

1.Nominal cooling conditions
Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB)
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
2.The values are measured at the factory setting of external static pressure.
3.Nominal heating conditions
Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB)
Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
4.The factory setting of external static pressure is shown without < >.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

Unit converter

kcal	=kW x 860
BTU/h	=kW x 3,412
cfm	=m^3/min x 35.31
lbs	=kg / 0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model				PEFY-P50VMA-E-S	PEFY-P63VMA-E-S	PEFY-P71VMA-E-S	PEFY-P80VMA-E-S
Power source				1-phase 220 V 50 Hz	1-phase 220 V 50 Hz	1-phase 220 V 50 Hz	1-phase 220 V 50 Hz
Cooling capacity		*1	kW	5.6	7.1	8.0	9.0
(Nominal)		*1	kcal/h	4,800	6,100	6,900	7,700
		*1	BTU/h	19,100	24,200	27,300	30,700
	*2	Power input	kW	0.100	0.100	0.120	0.130
	*2	Current input	A	0.90	0.90	1.04	1.10
Heating capacity		*3	kW	6.3	8.0	9.0	10.0
(Nominal)		*3	kcal/h	5,400	6,900	7,700	8,600
		*3	BTU/h	21,500	27,300	30,700	34,100
	*2	Power input	kW	0.100	0.100	0.120	0.130
	*2	Current input	A	0.90	0.90	1.04	1.10
External finish				Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension HxWxD			mm	250 x 1,100 x 732	250 x 1,100 x 732	250 x 1,100 x 732	250 x 1,100 x 732
			in.	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8
Net weight			kg (lbs)	30 (67)	30 (67)	30 (67)	30 (67)
Heat exchanger				Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)
FAN	Type x Quantity			Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
*4	External static press.		Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
			mmH_2O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type			DC motor	DC motor	DC motor	DC motor
	Motor output		kW	0.121	0.121	0.121	0.121
	Driving mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			m^3/min	13.5 - 16.0 - 19.0	13.5 - 16.0 - 19.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0
			L/s	225 - 267 - 317	225 - 267 - 317	242 - 300 - 350	242 - 300 - 350
			cfm	477 - 565 - 671	477 - 565 - 671	512 - 636 - 742	512 - 636 - 742
Sound pressure level (measured in anechoic room)				(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		*2	dB <A>	32-35-39	32-35-39	33-37-41	33-37-41
Insulation material				EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam
Air filter				PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Protection device				Fuse	Fuse	Fuse	Fuse
Refrigerant control device				LEV	LEV	LEV	LEV
Connectable outdoor unit				R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Refrigerant piping diameter	Liquid		mm (in.)	6.35(1/4")Brazed	9.52(3/8")Brazed	9.52(3/8")Brazed	9.52(3/8")Brazed
	Gas		mm (in.)	12.7(1/2")Brazed	15.88(5/8")Brazed	15.88(5/8")Brazed	15.88(5/8")Brazed
Field drain pipe size			mm (in.)	O.D.32(1-1/4")	O.D.32(1-1/4")	O.D.32(1-1/4")	O.D.32(1-1/4")
Drawing	External			WKD94T521	WKD94T521	WKD94T521	WKD94T521
	Wiring			WKD94T522	WKD94T522	WKD94T522	WKD94T522
	Refrigerant cycle			-	-	-	-
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory			Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band
Optional parts	Drain pump kit			PAC-KE08DM-E-S	PAC-KE08DM-E-S	PAC-KE08DM-E-S	PAC-KE08DM-E-S
	Filter box			PAC-KE93TB-E	PAC-KE93TB-E	PAC-KE93TB-E	PAC-KE93TB-E
Remarks				Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. When the bottom inlet is used, the noise pressure level is 5 to 10 dB greater than when the rear inlet is used. Take appropriate noise reduction measures on site when using the bottom inlet.			

Notes :

1. Nominal cooling conditions
   Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB)
   Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
2. The values are measured at the factory setting of external static pressure.
3. Nominal heating conditions
   Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB)
   Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
4. The factory setting of external static pressure is shown without < >.
   Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

Unit converter

kcal	=kW x 860
BTU/h	=kW x 3,412
cfm	=m^3/min x 35.31
lbs	=kg / 0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model			PEFY-P100VMA-E-S	PEFY-P125VMA-E-S	PEFY-P140VMA-E-S	
Power source			1-phase 220 V 50 Hz	1-phase 220 V 50 Hz	1-phase 220 V 50 Hz	
Cooling capacity	*1	kW	11.2	14.0	16.0	
(Nominal)	*1	kcal/h	9,600	12,000	13,800	
	*1	BTU/h	38,200	47,800	54,600	
*2	Power input	kW	0.230	0.335	0.340	
*2	Current input	A	1.40	2.12	2.19	
Heating capacity	*3	kW	12.5	16.0	18.0	
(Nominal)	*3	kcal/h	10,800	13,800	15,500	
	*3	BTU/h	42,700	54,600	61,400	
*2	Power input	kW	0.230	0.335	0.340	
*2	Current input	A	1.40	2.12	2.19	
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	
External dimension HxWxD		mm	250 x 1,400 x 732	250 x 1,400 x 732	250 x 1,600 x 732	
		in.	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8	
Net weight		kg (lbs)	38 (84)	38 (84)	41 (91)	
Heat exchanger			Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	
*4, *5	External static press.	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <90> - <110>	<35> - 50 - <70> - <90> - <110>	
		mmH_2O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <9.2> - <11.2>	<3.6> - 5.1 - <7.1> - <9.2> - <11.2>	
	Motor Type		DC motor	DC motor	DC motor	
	Motor output	kW	0.244	0.244	0.244	
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
		m^3/min	23.0 - 28.0 - 33.0	28.0 - 34.0 - 40.0	29.5 - 35.5 - 42.0	
		L/s	383 - 467 - 550	467 - 567 - 667	492 - 592 - 700	
		cfm	812 - 989 - 1,165	989 - 1,201 - 1,412	1,042 - 1,254 - 1,483	
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
	*2	dB <A>	35-40-44	38-43-47	39-44-48	
Insulation material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	
Protection device			Fuse	Fuse	Fuse	
Refrigerant control device			LEV	LEV	LEV	
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	
Refrigerant piping diameter	Liquid	mm (in.)	9.52(3/8")Brazed	9.52(3/8")Brazed	9.52(3/8")Brazed	
	Gas	mm (in.)	15.88(5/8")Brazed	15.88(5/8")Brazed	15.88(5/8")Brazed	
Field drain pipe size		mm (in.)	O.D.32(1-1/4")	O.D.32(1-1/4")	O.D.32(1-1/4")	
Drawing	External		WKD94T521	WKD94T521	WKD94T521	
	Wiring		WKD94T522	WKD94T522	WKD94T522	
	Refrigerant cycle		-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	Washer, Drain hose, Tie band	
Optional parts	Drain pump kit		PAC-KE08DM-E-S	PAC-KE08DM-E-S	PAC-KE08DM-E-S	
	Filter box		PAC-KE94TB-E	PAC-KE94TB-E	PAC-KE95TB-E	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. When the bottom inlet is used, the noise pressure level is 5 to 10 dB greater than when the rear inlet is used. Take appropriate noise reduction measures on site when using the bottom inlet.			

Notes :

1. Nominal cooling conditions
   Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB)
   Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
2. The values are measured at the factory setting of external static pressure.
3. Nominal heating conditions
   Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB)
   Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)
4. The factory setting of external static pressure is shown without < >.
   Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
5. When the bottom inlet is used, the set external static pressure 70/100/150 Pa for P100 model or 70/90/110 Pa for P125 and P140 models are not available.

Unit converter

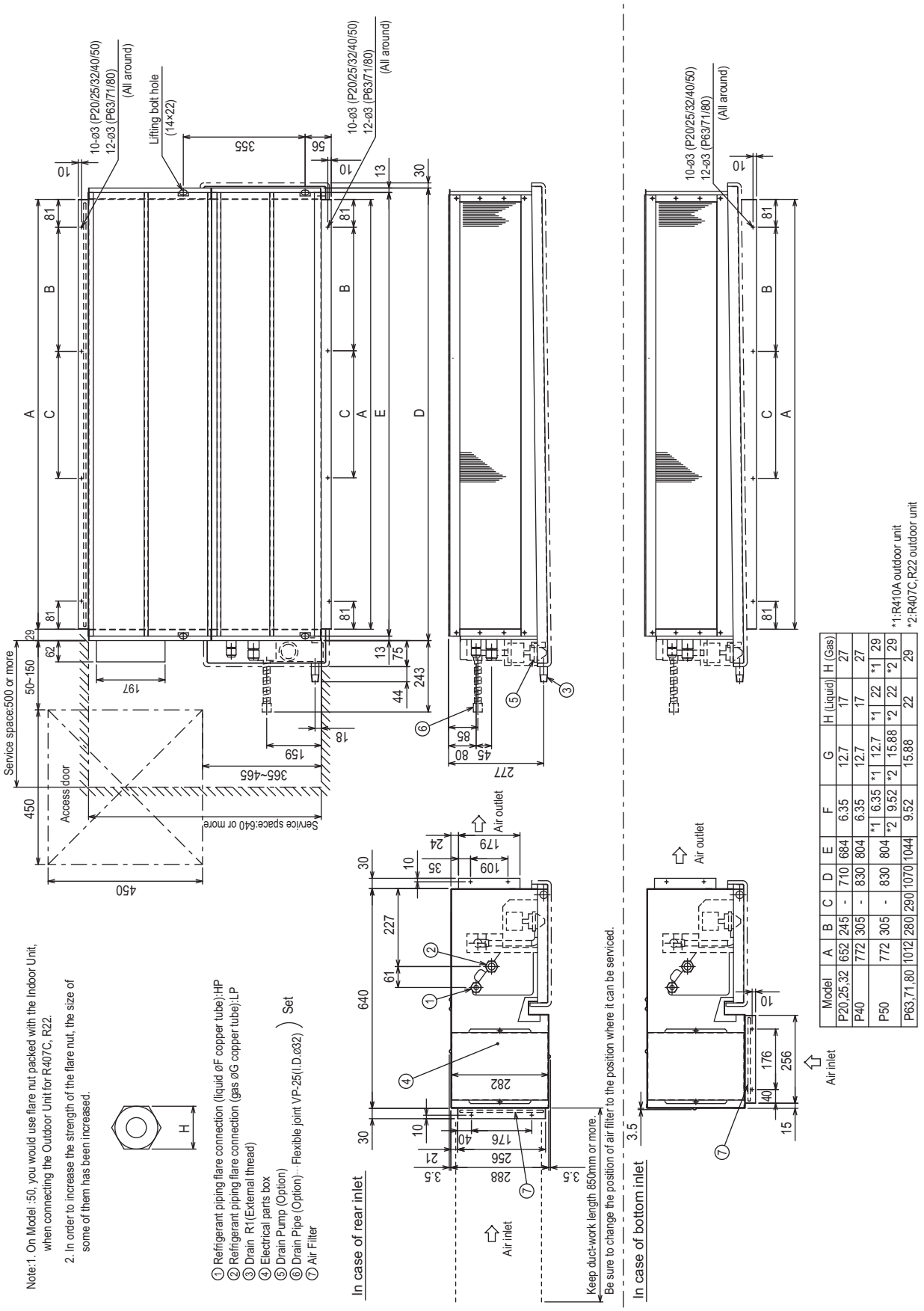
kcal	=kW x 860
BTU/h	=kW x 3,412
cfm	=m^3/min x 35.31
lbs	=kg / 0.4536

*Above specification data is subject to rounding variation.

2. EXTERNAL DIMENSIONS

PEFY-P20, 25, 32, 40, 50, 63, 71, 80VMM-E-S

Unit : mm



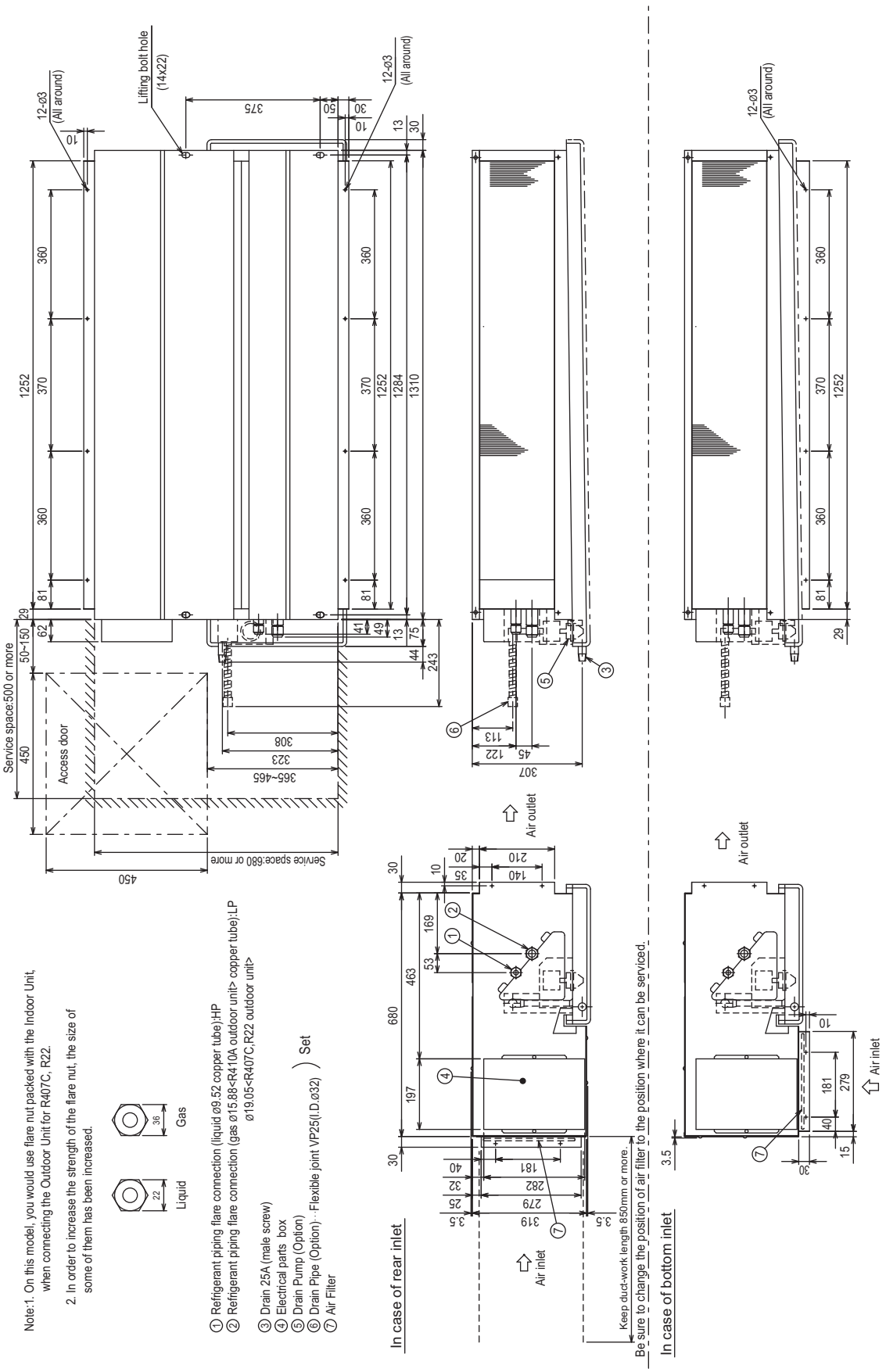
Note:1. On Model :50, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.
2. In order to increase the strength of the flare nut, the size of some of them has been increased.

Model	A	B	C	D	E	F		G	H (Liquid)	H (Gas)
P20,25,32	652	245	-	710	684	6.35		12.7	17	27
P40	772	305	-	830	804	6.35		12.7	17	27
P50	772	305	-	830	804	*1	6.35	*1	12.7	*1	22	*1	29
						*2	9.52	*2	15.88	*2	22	*2	29
P63,71,80	1012	280	290	1070	1044	9.52		15.88	22	29			

*1:R410A outdoor unit
*2:R407C,R22 outdoor unit

PEFY-P100, 125VMM-E-S

Unit : mm



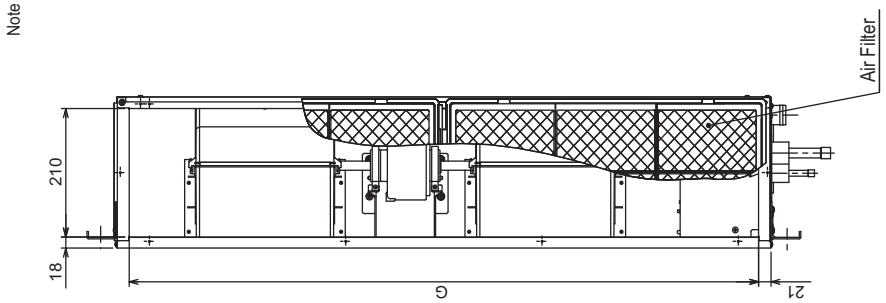
2. EXTERNAL DIMENSIONS

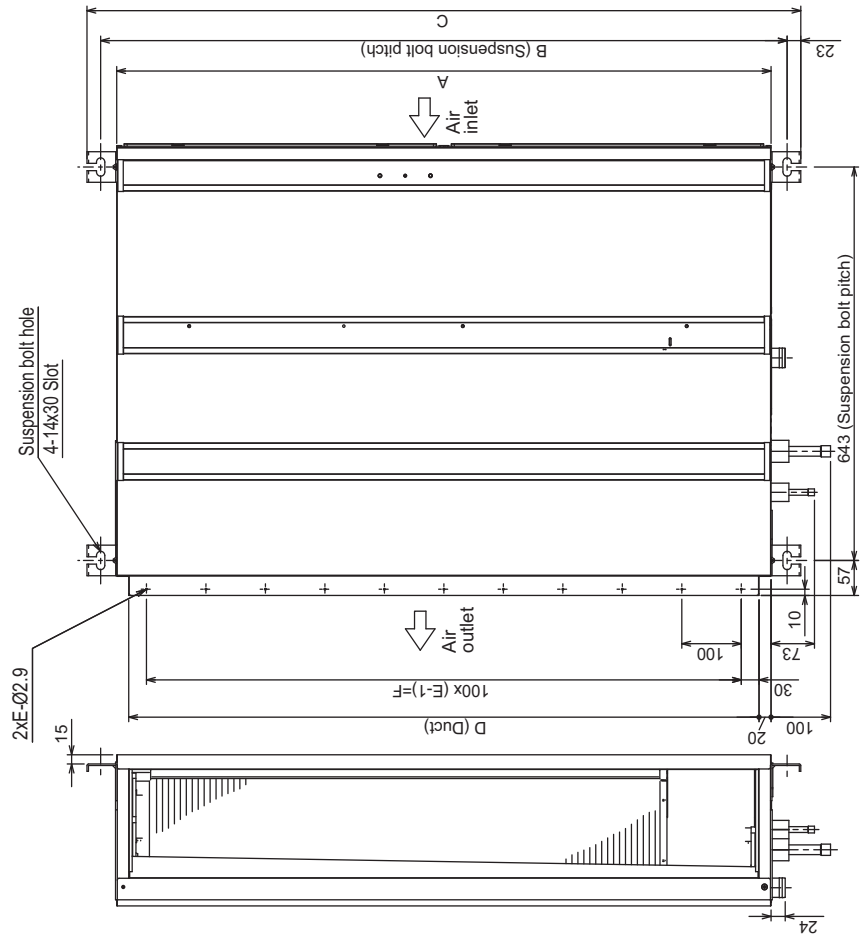
PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-E-S

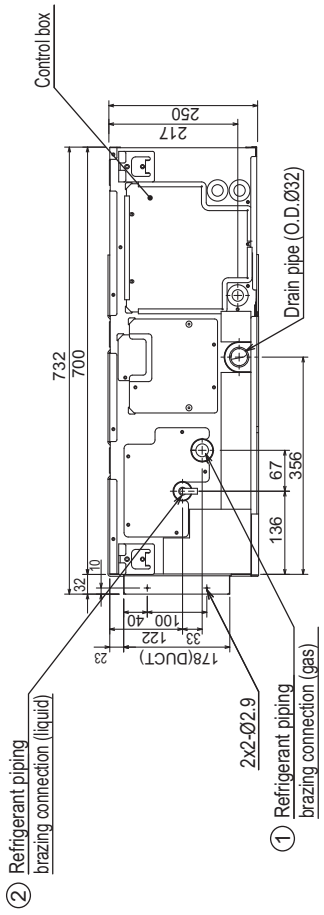
Unit : mm

Note 1. Use M10 screw for the Suspension bolt (field supply).
2. Provide enough space for maintenance and cut out the access door under the unit.
3. This chart indicates for PEFY-P50·63·71·80·100·125·140VMA-E-S models,which have 2 fans.PEFY-P20·25·32·40VMA-E-S models have 1 fan.
4. In case of the inlet duct is used,remove the air filter (supply with the unit), then install the filter (field supply) at suction side.

Model	A	B	C	D	E	F	G	①Gas pipe	②Liquid pipe
PEFY-P20,25VMA-E-S	700	754	800	660	7	600	658	Ø12.7	Ø6.35
PEFY-P32,40VMA-E-S	900	954	1000	860	9	800	858		
PEFY-P50VMA-E-S	1100	1154	1200	1060	11	1000	1058		
PEFY-P63,71,80VMA-E-S	1100	1154	1200	1060	11	1000	1058	Ø15.88	Ø9.52
PEFY-P100,125VMA-E-S	1400	1454	1500	1360	14	1300	1358		
PEFY-P140VMA-E-S	1600	1654	1700	1560	16	1500	1558		



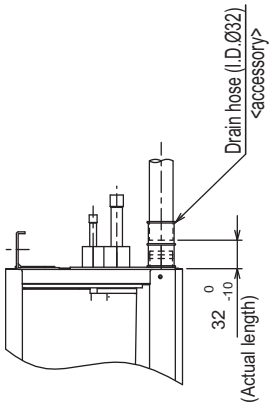


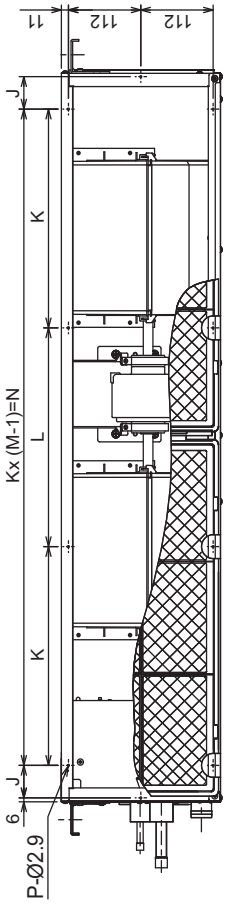


2. EXTERNAL DIMENSIONS

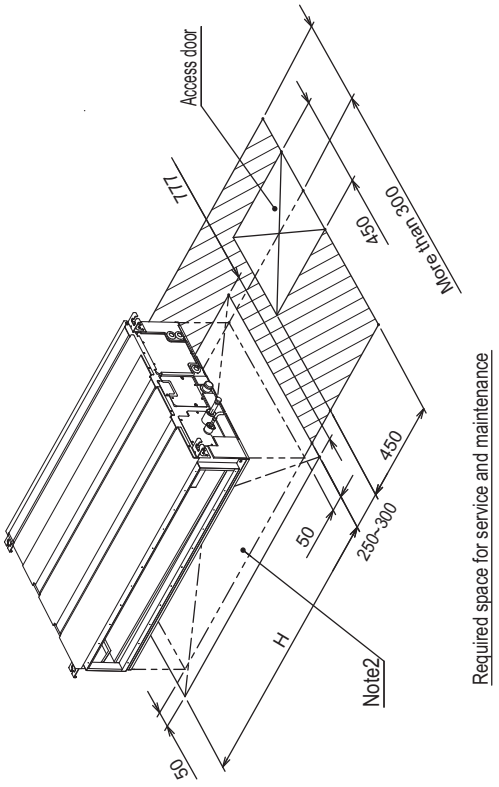
PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-E-S

Unit : mm

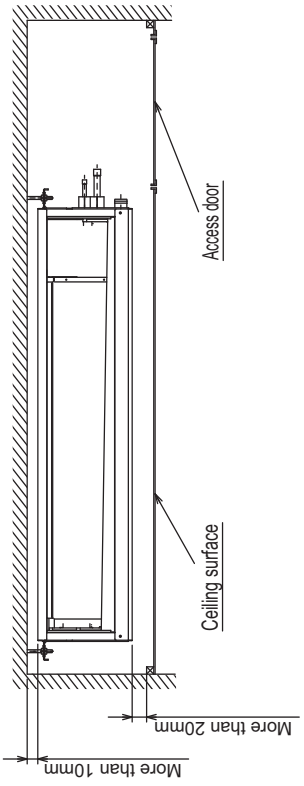




Model	H	J	K	L	M	N	P
PEFY-P20,25VMA-E-S	800	44	150	300			10
PEFY-P32,40VMA-E-S	1000	54	260		4	780	10
PEFY-P50,63,71,80VMA-E-S	1200	49	330		4	990	10
PEFY-P100,125VMA-E-S	1500	54	320		5	1280	12
PEFY-P140VMA-E-S	1700	54	370		5	1480	12

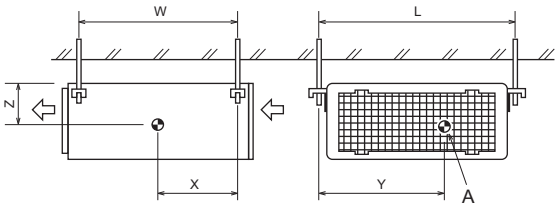


Required space for service and maintenance



Make the access door at the appointed position properly for service maintenance.

PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125VMM-E-S

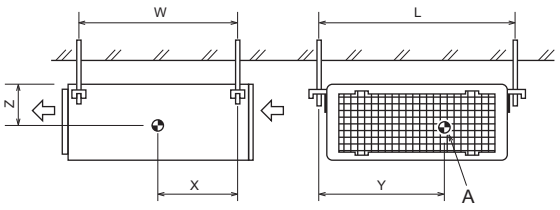


A : Center of gravity

(mm) [in.]

Model name	W	L	X	Y	Z
PEFY-P20VMM-E-S	355 [14]	684 [26 - 15/16]	70 [2 - 13/16]	230 [9 - 1/16]	150 [5 - 15/16]
PEFY-P25VMM-E-S	355 [14]	684 [26 - 15/16]	70 [2 - 13/16]	230 [9 - 1/16]	150 [5 - 15/16]
PEFY-P32VMM-E-S	355 [14]	684 [26 - 15/16]	70 [2 - 13/16]	230 [9 - 1/16]	150 [5 - 15/16]
PEFY-P40VMM-E-S	355 [14]	804 [31 - 11/16]	85 [3 - 3/8]	300 [11 - 13/16]	130 [5 - 1/8]
PEFY-P50VMM-E-S	355 [14]	804 [31 - 11/16]	85 [3 - 3/8]	300 [11 - 13/16]	130 [5 - 1/8]
PEFY-P63VMM-E-S	355 [14]	1044 [41 - 1/8]	75 [3]	420 [16 - 9/16]	140 [5 - 9/16]
PEFY-P71VMM-E-S	355 [14]	1044 [41 - 1/8]	75 [3]	420 [16 - 9/16]	140 [5 - 9/16]
PEFY-P80VMM-E-S	355 [14]	1044 [41 - 1/8]	75 [3]	420 [16 - 9/16]	140 [5 - 9/16]
PEFY-P100VMM-E-S	375 [14 - 13/16]	1284 [50 - 9/16]	30 [1 - 3/16]	560 [22 - 1/16]	195 [7 - 11/16]
PEFY-P125VMM-E-S	375 [14 - 13/16]	1284 [50 - 9/16]	30 [1 - 3/16]	560 [22 - 1/16]	195 [7 - 11/16]

PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-E-S

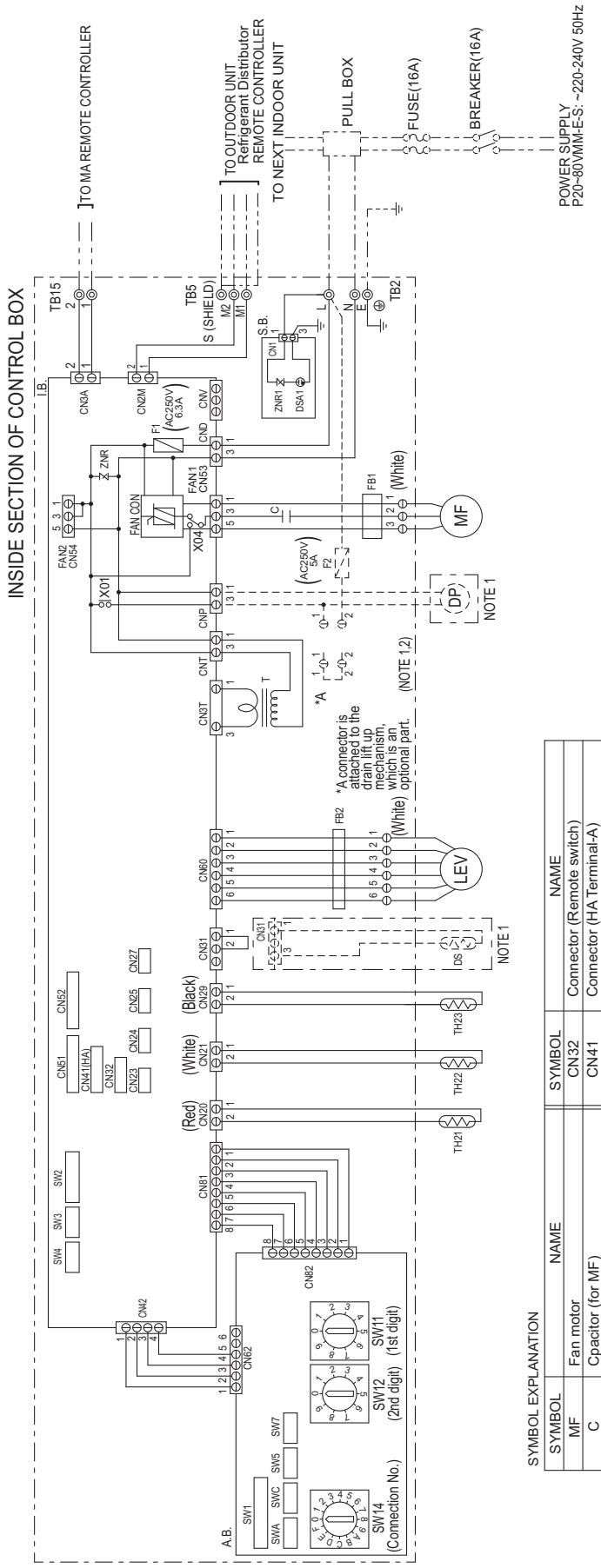


A : Center of gravity

(mm) [in.]

Model name	W	L	X	Y	Z
PEFY-P20VMA-E-S	643 [25 - 6/16]	754 [29 - 11/16]	330 [13]	300 [11 -13/16]	130 [5 -2/16]
PEFY-P25VMA-E-S	643 [25 - 6/16]	754 [29 - 11/16]	330 [13]	300 [11 -13/16]	130 [5 -2/16]
PEFY-P32VMA-E-S	643 [25 - 6/16]	754 [29 - 11/16]	330 [13]	300 [11 -13/16]	130 [5 -2/16]
PEFY-P40VMA-E-S	643 [25 - 6/16]	954 [37 - 9/16]	340 [13 - 7/16]	375 [14 -13/16]	130 [5 -2/16]
PEFY-P50VMA-E-S	643 [25 - 6/16]	954 [37 - 9/16]	340 [13 - 7/16]	375 [14 -13/16]	130 [5 -2/16]
PEFY-P63VMA-E-S	643 [25 - 6/16]	1154 [45 - 7/16]	325 [12 - 13/16]	525 [20 -11/16]	130 [5 -2/16]
PEFY-P71VMA-E-S	643 [25 - 6/16]	1154 [45 - 7/16]	325 [12 - 13/16]	525 [20 -11/16]	130 [5 -2/16]
PEFY-P80VMA-E-S	643 [25 - 6/16]	1154 [45 - 7/16]	325 [12 - 13/16]	525 [20 -11/16]	130 [5 -2/16]
PEFY-P100VMA-E-S	643 [25 - 6/16]	1454 [57 - 4/16]	330 [13]	675 [26 -10/16]	130 [5 -2/16]
PEFY-P125VMA-E-S	643 [25 - 6/16]	1454 [57 - 4/16]	330 [13]	675 [26 -10/16]	130 [5 -2/16]
PEFY-P140VMA-E-S	643 [25 - 6/16]	1654 [65 - 2/16]	332 [13 - 2/16]	725 [28 -9/16]	130 [5 -2/16]

PEFY-P20, 25, 32, 40, 50, 63, 71, 80VMM-E-S



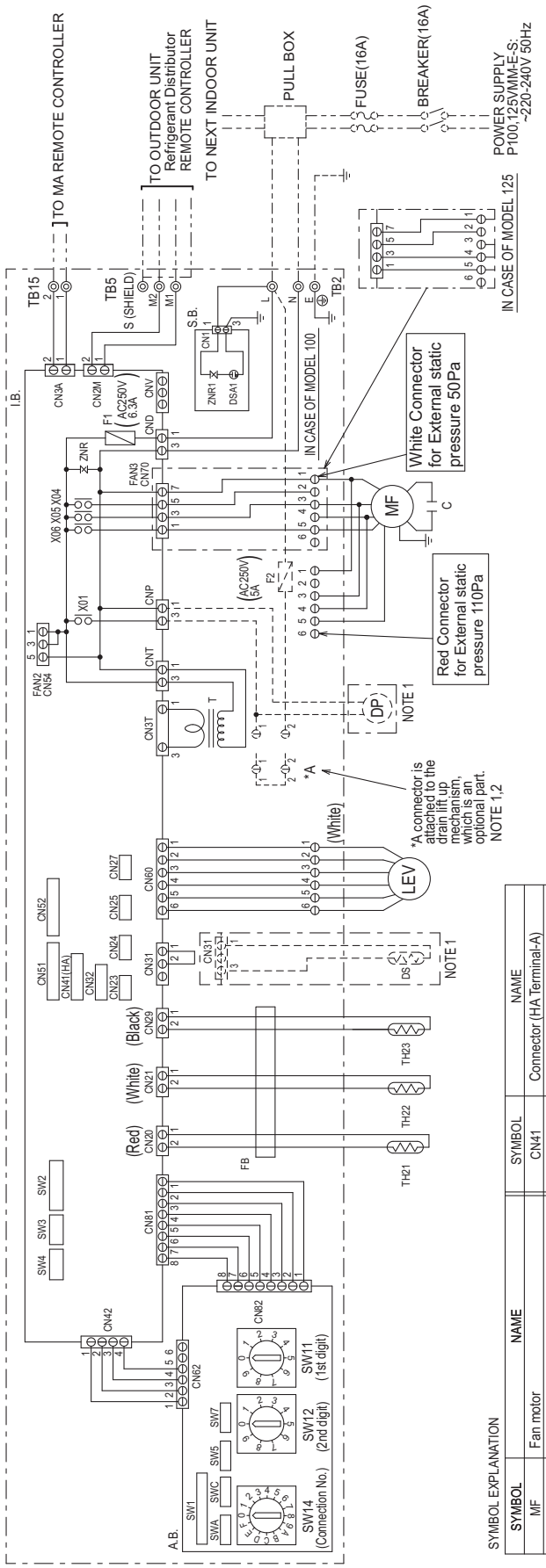
NOTE 1. The part of the broken line indicates the circuit for optional parts.
2. *A in the chart is the connector for a drain pump test run operation.
(The Drain Pump operates continuously if the connector is inserted and the power is supplied.)
After the test run, make sure to remove the *A connector.
3. TB2, TB5, TB15 shown in dotted line are field work.
4. Mark ◎ indicates terminal bed, ⊖ connector, ⊜ board insertion connector or fastening connector of control board.

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	CN32	Connector (Remote switch)
C	Cpacitor (for MF)	CN41	Connector (HA Terminal-A)
I.B.	Indoor controller board	CN51	Connector (Centrally control)
A.B.	Address board	CN52	Connector (Remote indication)
TB2	Power source terminal bed	SWA(A.B.)	Switch (option parts)
TB5	Transmission terminal bed	SWC(A.B.)	Switch (option parts)
TB15	Transmission terminal bed	SW1(A.B.)	Switch (for mode selection)
F1	Fuse AC250V 6.3A	SW2(I.B.)	Switch (for capacity code)
<F2>	Fuse AC250V 5A	SW3(I.B.)	Switch (for mode selection)
T	Transformer	SW4(I.B.)	Switch (for model selection)
LEV	Electronic linear expan. valve	SW5(A.B.)	Switch (for voltage selection)
TH21	Thermistor (inlet temp.detection)	SW7(A.B.)	Switch (for model selection)
TH22	Thermistor (piping temp.detection/liquid)	SW11(A.B.)	Switch (1st digit address set)
TH23	Thermistor (piping temp.detection/gas)	SW12(A.B.)	Switch (2nd digit address set)
CNV	Connector (Vane)	SW14(A.B.)	Switch (connection No.set)
CN23	Connector (Vane)	FB1,2	Ferrite core
CN24	Connector (Heater)	S.B.	Surge absorber board
CN25	Connector (Humidifier)	<DP>	Drain pump
CN27	Connector (Damper)	<DS>	Drain sensor

Inside < > is the optional parts.

PEFY-P100, 125VMM-E-S



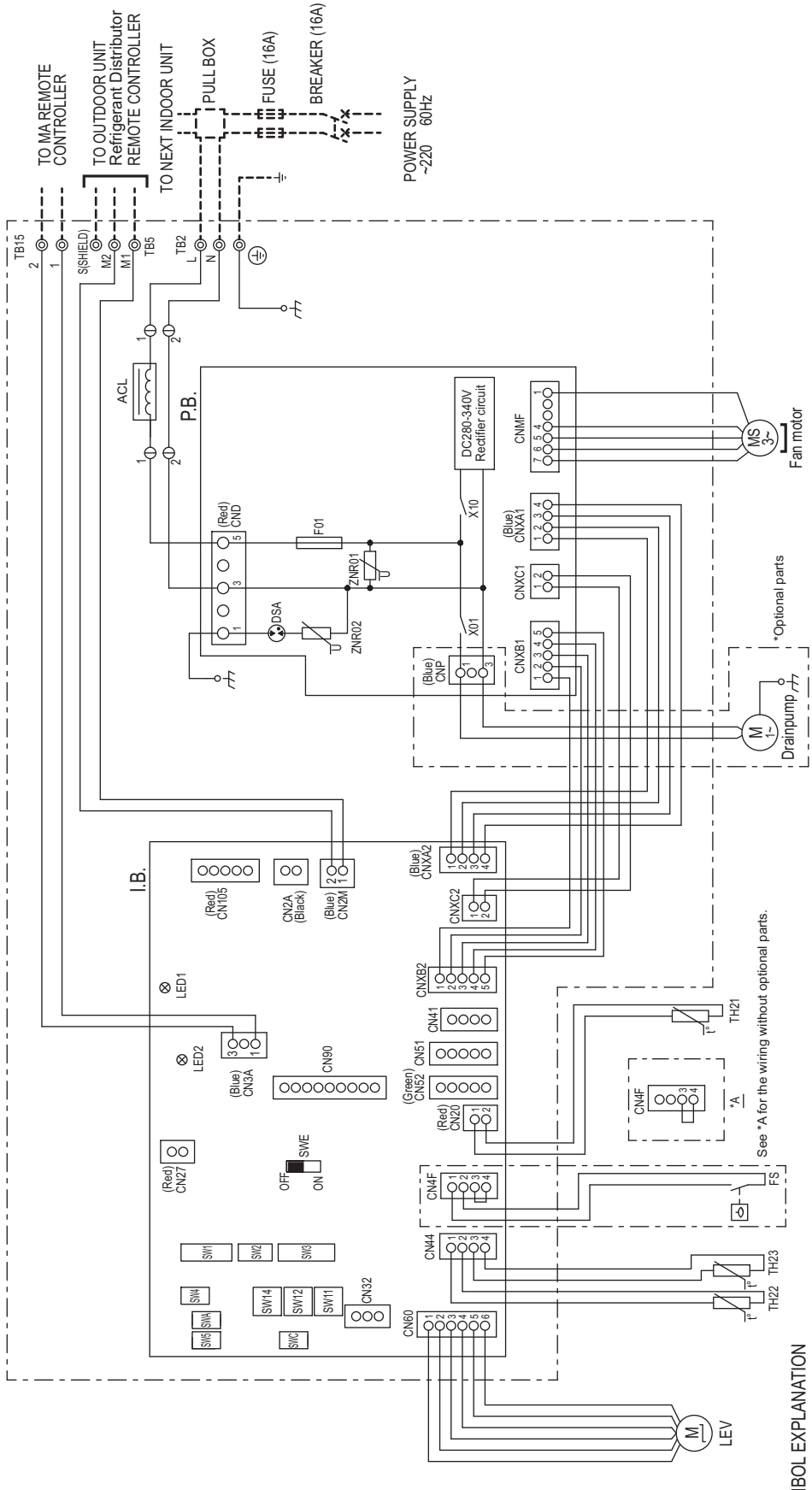
NOTE 1. The part of the broken line indicates the circuit for optional parts.
2. *A in the chart is the connector for a drain pump test run operation.
(The Drain Pump operates continuously if the connector is inserted and the power is supplied.)
After the test run, make sure to remove the *A connector.
3. TB2, TB5, TB15 shown in dotted line are field work.
4. Mark ◎ indicates terminal bed, ⊖ connector, ⊟ board insertion connector or fastening connector of control board.

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	CN41	Connector (HA Terminal-A)
C	Capacitor (for MF)	CN51	Connector (Centrally control)
I.B.	Indoor controller board	CN52	Connector (Remote indication)
A.B.	Address board	SWA(A.B.)	Switch (option parts)
TB2	Power source terminal bed	SWC(A.B.)	Switch (option parts)
TB5	Transmission terminal bed	SW1(A.B.)	Switch (for mode selection)
TB15	Transmission terminal bed	SW2(I.B.)	Switch (for capacity code)
F1	Fuse AC250V 6.3A	SW3(I.B.)	Switch (for mode selection)
<F2>	Fuse AC250V 5A	SW4(I.B.)	Switch (for model selection)
T	Transformer	SW5(A.B.)	Switch (for voltage selection)
LEV	Electronic linear expan. valve	SW7(A.B.)	Switch (for model selection)
TH21	Thermistor (inlet temp.detection)	SW11(A.B.)	Switch (1st digit address set)
TH22	Thermistor (piping temp.detection/liquid)	SW12(A.B.)	Switch (2nd digit address set)
TH23	Thermistor (piping temp.detection/gas)	SW14(A.B.)	Switch (connection No.set)
CNV	Connector (Vane)	X04~06	Aux. relay
CN23	Connector (Vane)	FB	Ferrite core
CN24	Connector (Heater)	S.B.	Surge absorber board
CN25	Connector (Humidifier)	<DP>	Drain pump
CN27	Connector (Damper)	<DS>	Drain sensor
CN32	Connector (Remote switch)		

Inside < > is the optional parts.

PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-E-S



NOTE)1. Symbols used in wiring diagram above are,
⓵:Connector
◎:Terminal
– – – – – (Heavy dotted line);Field wiring

SYMBOL EXPLANATION

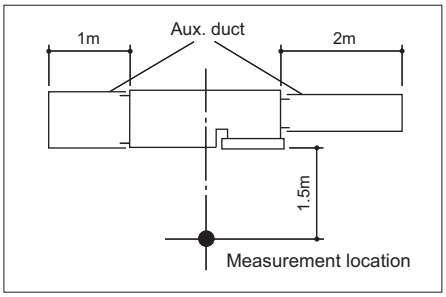
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I.B.	Indoor controller board	CN41	Connector (HA terminal-A)	SW4(I.B.)	Switch (for model selection)
P.B.	Power supply board	CN51	Connector (Centrally control)	SW5(I.B.)	Switch (for mode selection)
TB2	Power source terminal block	CN52	Connector (Remote indication)	SW11(I.B.)	Switch (1s digit address set)
TB5	Transmission terminal block	CN90	Connector (Wireless)	SW12(I.B.)	Switch (10ths digit address set)
TB15	Transmission terminal block	CN105	Connector (IT terminal)	SW14(I.B.)	Switch (BRANCH No.)
F01	Fuse AC250V 6.3A	CN2A	Connector (0-10V Analog input)	SWA(I.B.)	Switch (for static pressure selection)
ZNR01,02	Varistor	FS	Float switch	SWC(I.B.)	Switch (for static pressure selection)
DSA	Arrester	TH21	Thermistor (inlet air temp.detection)	SWE(I.B.)	Connector (emergency operation)
X01	Aux. relay	TH22	Thermistor (piping temp.detection/liquid)	LED1	LED(Power supply)
X10	Aux. relay	TH23	Thermistor (piping temp.detection/gas)	LED2	LED(Remote controller supply)
ACL	AC reactor(Power factor improvement)	SW1(I.B.)	Switch (for mode selection)		
CN27	Connector (Damper)	SW2(I.B.)	Switch (for capacity code)		
CN32	Connector (Remote switch)	SW3(I.B.)	Switch (for mode selection)		

5. SOUND LEVELS

5-1. Sound levels

5-1-1. Measured point : With 2m air inlet duct and 1m air outlet duct

PEFY-P-VMM-E-S



* Measured in anechoic room.

Sound level at anechoic room : 220V Low-Mid-High

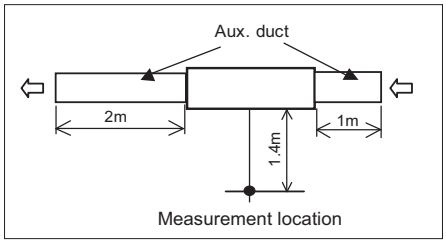
Model	Sound level dB(A)			
	30Pa	50Pa	100Pa	110Pa
PEFY-P20VMM-E-S PEFY-P25VMM-E-S	24-28-31	27-30-32	30-35-40	-
PEFY-P32VMM-E-S	26-30-33	28-32-35	32-36-40	-
PEFY-P40VMM-E-S	29-32-35	31-35-37	33-37-41	-
PEFY-P50VMM-E-S	29-34-37	31-35-38	34-38-41	-
PEFY-P63VMM-E-S	29-34-37	31-35-38	34-38-41	-
PEFY-P71VMM-E-S PEFY-P80VMM-E-S	34-38-40	36-40-42	41-44-45	-
PEFY-P100VMM-E-S	-	40-44	-	43-48
PEFY-P125VMM-E-S	-	42-47	-	44-50

Sound level at anechoic room : 230-240V Low-Mid-High

Model	Sound level dB(A)			
	30Pa	50Pa	100Pa	110Pa
PEFY-P20VMM-E-S PEFY-P25VMM-E-S	26-29-32	28-31-35	31-35-40	-
PEFY-P32VMM-E-S	27-30-34	28-32-36	32-36-40	-
PEFY-P40VMM-E-S	32-34-36	32-35-37	34-37-41	-
PEFY-P50VMM-E-S	32-34-37	32-37-40	34-41-43	-
PEFY-P63VMM-E-S	32-34-37	32-35-38	34-40-42	-
PEFY-P71VMM-E-S PEFY-P80VMM-E-S	37-40-42	38-43-45	41-45-46	-
PEFY-P100VMM-E-S	-	43-46	-	43-49
PEFY-P125VMM-E-S	-	44-49	-	45-51

5-1-2. Measured point : With 1m air inlet duct and 2m air outlet duct

PEFY-P-VMA-E-S



* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

Model	Sound level dB(A)							
	20Pa	35Pa	50Pa	70Pa	90Pa	100Pa	110Pa	150Pa
PEFY-P20VMA-E-S	29-30-31	-	29-31-32	29-32-34	-	30-33-36	-	31-36-40
PEFY-P25VMA-E-S	30-31-32	-	31-33-37	32-35-39	-	32-36-40	-	34-38-43
PEFY-P32VMA-E-S	31-33-34	-	31-33-37	32-35-39	-	32-36-40	-	35-39-43
PEFY-P40VMA-E-S	31-34-36	-	31-35-38	32-36-40	-	33-37-41	-	35-40-44
PEFY-P50VMA-E-S	-	32-35-38	32-35-39	33-36-41	-	34-38-42	-	36-41-44
PEFY-P63VMA-E-S	-	32-35-38	32-35-39	33-36-41	-	34-38-42	-	36-41-44
PEFY-P71VMA-E-S	-	33-36-40	33-37-41	34-39-42	-	36-40-44	-	39-44-47
PEFY-P80VMA-E-S	-	33-36-40	33-37-41	34-39-42	-	36-40-44	-	39-44-47
PEFY-P100VMA-E-S	-	34-39-43	35-40-44	36-41-45	-	38-42-46	-	40-45-48
PEFY-P125VMA-E-S	-	38-43-47	38-43-47	40-44-48	41-45-49	-	41-46-49	-
PEFY-P140VMA-E-S	-	39-44-48	39-44-48	41-45-49	42-46-50	-	42-47-50	-

Rear inlet

Model	Set external static pressure							
	20Pa	35Pa	50Pa	70Pa	90Pa	100Pa	110Pa	150Pa
PEFY-P20VMA-E-S	Available *	-	Available	Available	-	Available	-	Available
PEFY-P25VMA-E-S	Available *	-	Available	Available	-	Available	-	Available
PEFY-P32VMA-E-S	Available *	-	Available	Available	-	Available	-	Available
PEFY-P40VMA-E-S	Available *	-	Available	Available	-	Available	-	Available
PEFY-P50VMA-E-S	-	Available	Available *	Available	-	Available	-	Available
PEFY-P63VMA-E-S	-	Available	Available *	Available	-	Available	-	Available
PEFY-P71VMA-E-S	-	Available	Available *	Available	-	Available	-	Available
PEFY-P80VMA-E-S	-	Available	Available *	Available	-	Available	-	Available
PEFY-P100VMA-E-S	-	Available	Available *	Available	-	Available	-	Available
PEFY-P125VMA-E-S	-	Available	Available *	Available	Available	-	Available	-
PEFY-P140VMA-E-S	-	Available	Available *	Available	Available	-	Available	-

* Factory setting

Bottom inlet

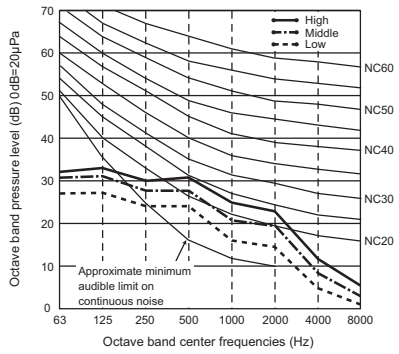
Model	Set external static pressure							
	20Pa	35Pa	50Pa	70Pa	90Pa	100Pa	110Pa	150Pa
PEFY-P20VMA-E-S	Available	-	Available	Available	-	Available	-	Available
PEFY-P25VMA-E-S	Available	-	Available	Available	-	Available	-	Available
PEFY-P32VMA-E-S	Available	-	Available	Available	-	Available	-	Available
PEFY-P40VMA-E-S	Available	-	Available	Available	-	Available	-	Available
PEFY-P50VMA-E-S	-	Available	Available	Available	-	Available	-	Available
PEFY-P63VMA-E-S	-	Available	Available	Available	-	Available	-	Available
PEFY-P71VMA-E-S	-	Available	Available	Available	-	Available	-	Available
PEFY-P80VMA-E-S	-	Available	Available	Available	-	Available	-	Available
PEFY-P100VMA-E-S	-	Available	Available	Not available	-	Not available	-	Not available
PEFY-P125VMA-E-S	-	Available	Available	Not available	Not available	-	Not available	-
PEFY-P140VMA-E-S	-	Available	Available	Not available	Not available	-	Not available	-

5. SOUND LEVELS

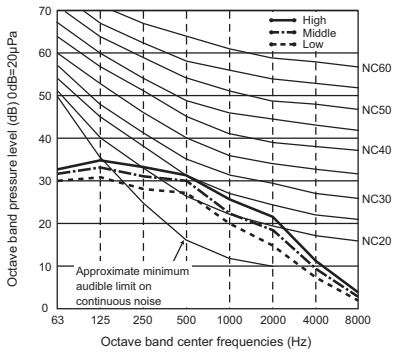
5-2. NC curves

5-2-1. Sound level measured point : With 2m air inlet duct and 1m air outlet duct/Rear inlet

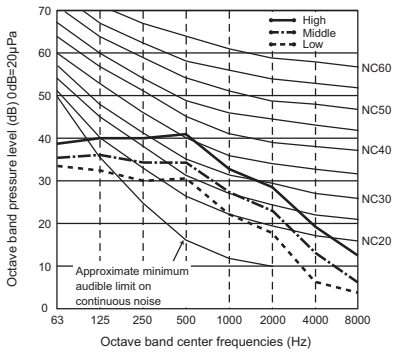
PEFY-P20,25VMM-E-S
External Static Pressure: 30Pa
Power Source: 220V, 50Hz



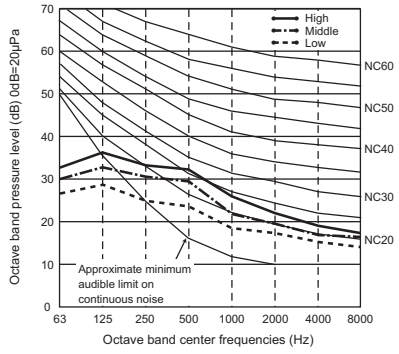
PEFY-P20,25VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



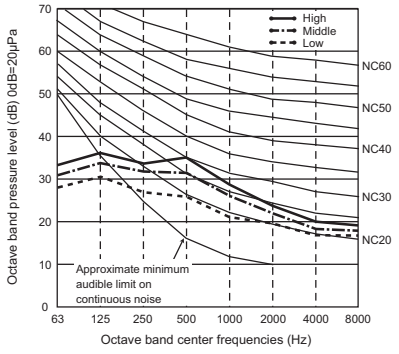
PEFY-P20,25VMM-E-S
External Static Pressure: 100Pa
Power Source: 220V, 50Hz



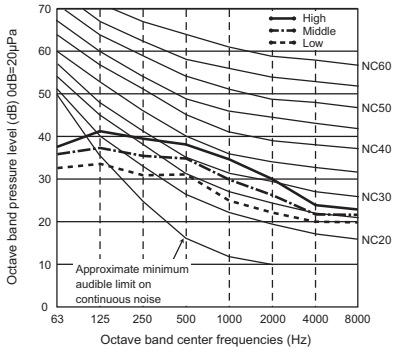
PEFY-P32VMM-E-S
External Static Pressure: 30Pa
Power Source: 220V, 50Hz



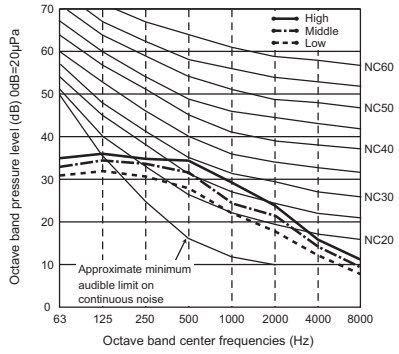
PEFY-P32VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



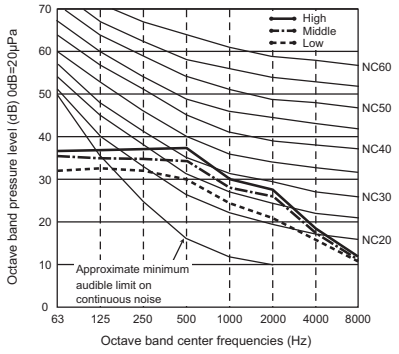
PEFY-P32VMM-E-S
External Static Pressure: 100Pa
Power Source: 220V, 50Hz



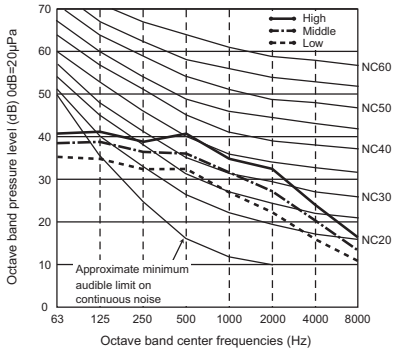
PEFY-P40VMM-E-S
External Static Pressure: 30Pa
Power Source: 220V, 50Hz



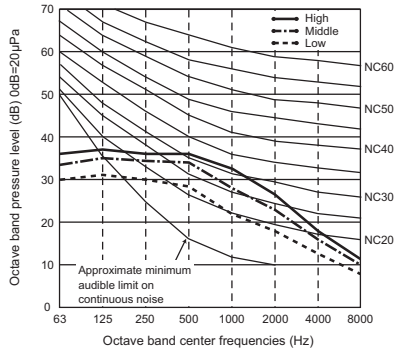
PEFY-P40VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



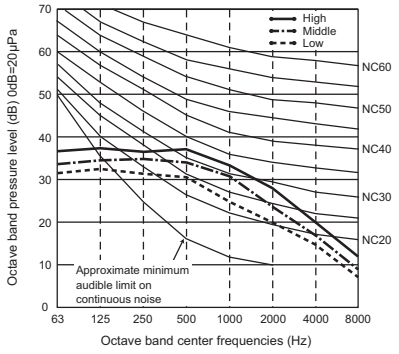
PEFY-P40VMM-E-S
External Static Pressure: 100Pa
Power Source: 220V, 50Hz



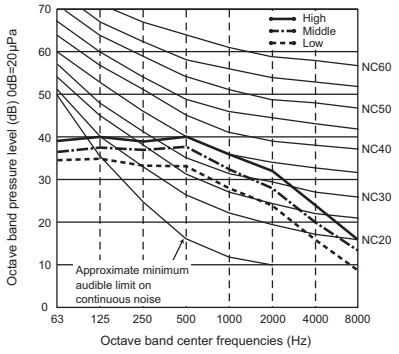
PEFY-P50VMM-E-S
External Static Pressure: 30Pa
Power Source: 220V, 50Hz



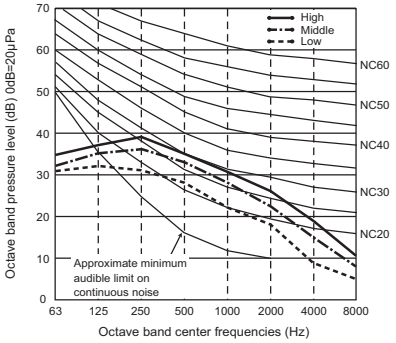
PEFY-P50VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



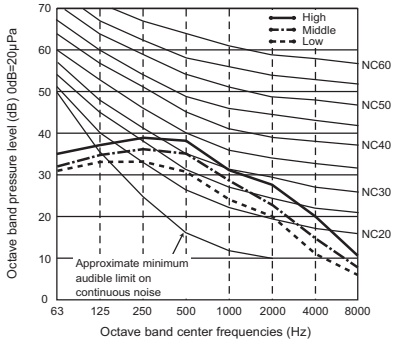
PEFY-P50VMM-E-S
External Static Pressure: 100Pa
Power Source: 220V, 50Hz



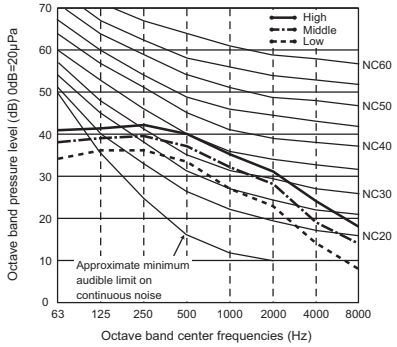
PEFY-P63VMM-E-S
External Static Pressure: 30Pa
Power Source: 220V, 50Hz



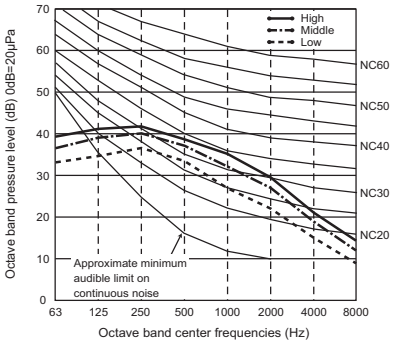
PEFY-P63VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



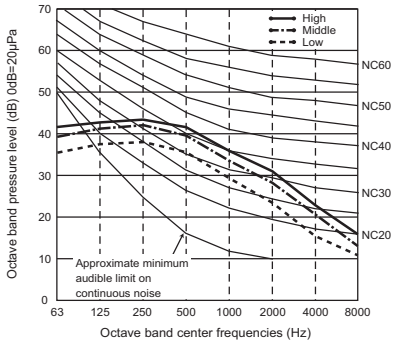
PEFY-P63VMM-E-S
External Static Pressure: 100Pa
Power Source: 220V, 50Hz



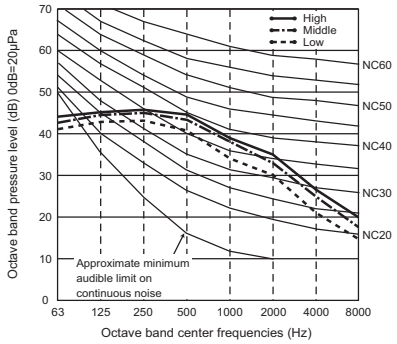
PEFY-P71,80VMM-E-S
External Static Pressure: 30Pa
Power Source: 220V, 50Hz



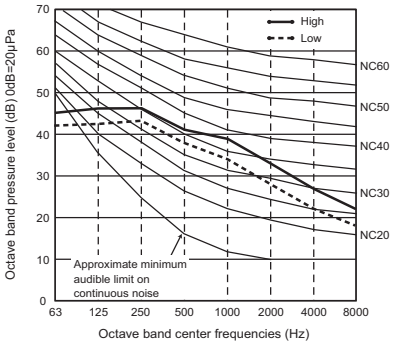
PEFY-P71,80VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



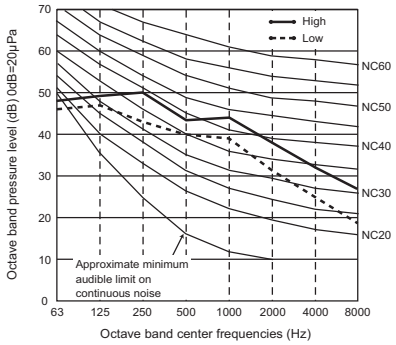
PEFY-P71,80VMM-E-S
External Static Pressure: 100Pa
Power Source: 220V, 50Hz



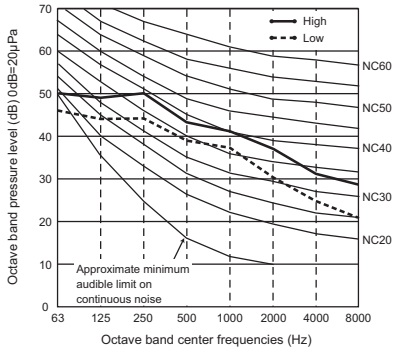
PEFY-P100VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



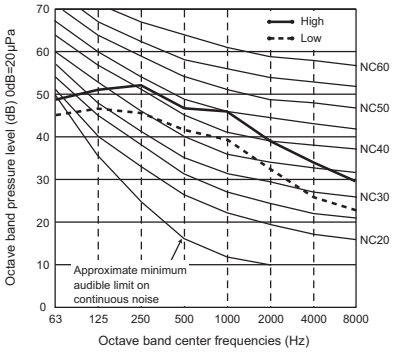
PEFY-P100VMM-E-S
External Static Pressure: 110Pa
Power Source: 220V, 50Hz



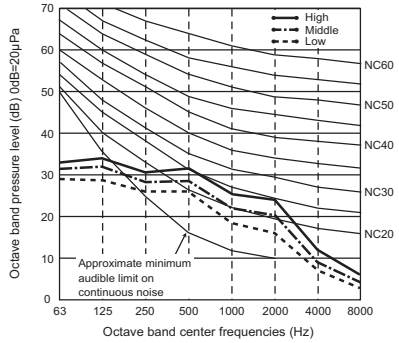
PEFY-P125VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



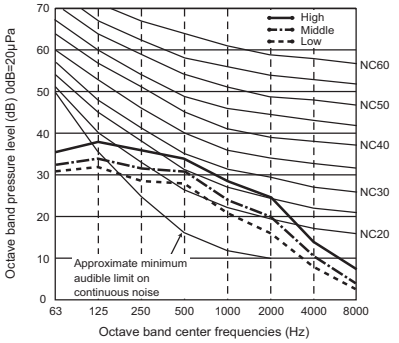
PEFY-P125VMM-E-S
External Static Pressure: 110Pa
Power Source: 220V, 50Hz



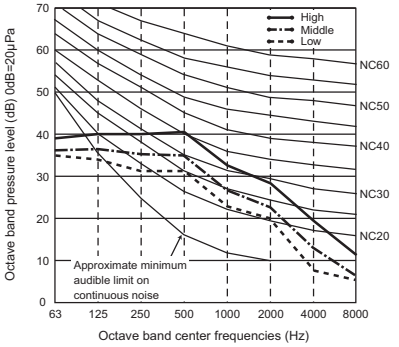
PEFY-P20,25VMM-E-S
External Static Pressure: 30Pa
Power Source: 230-240V, 50Hz



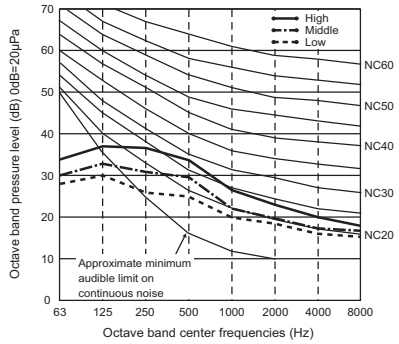
PEFY-P20,25VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



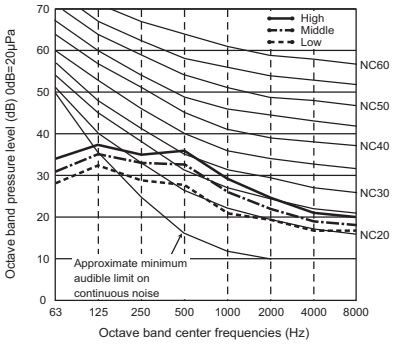
PEFY-P20,25VMM-E-S
External Static Pressure: 100Pa
Power Source: 230-240V, 50Hz



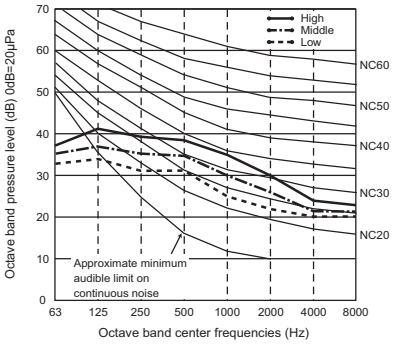
PEFY-P32VMM-E-S
External Static Pressure: 30Pa
Power Source: 230-240V, 50Hz



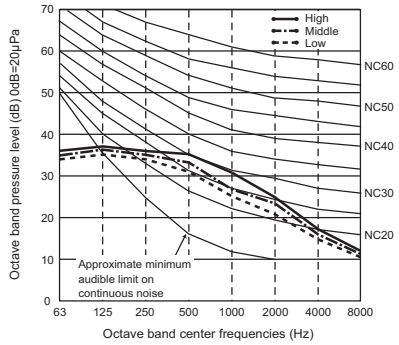
PEFY-P32VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



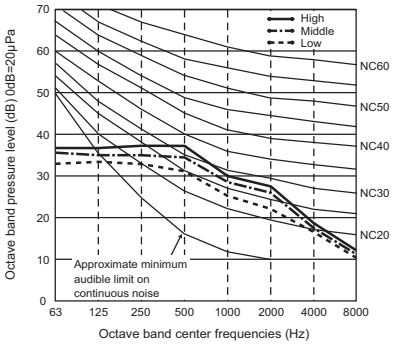
PEFY-P32VMM-E-S
External Static Pressure: 100Pa
Power Source: 230-240V, 50Hz



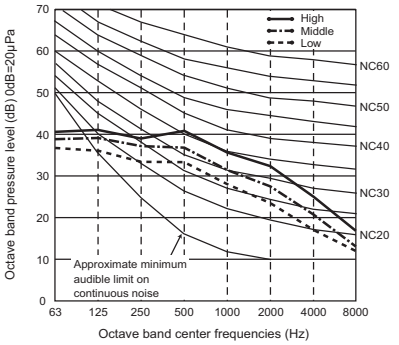
PEFY-P40VMM-E-S
External Static Pressure: 30Pa
Power Source: 230-240V, 50Hz



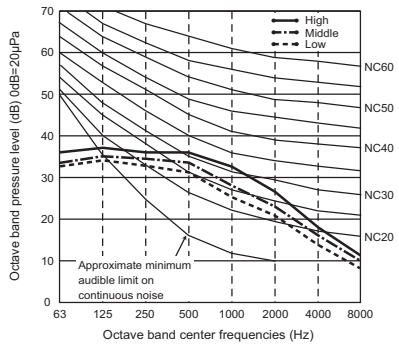
PEFY-P40VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



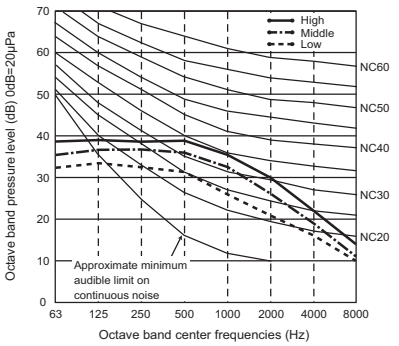
PEFY-P40VMM-E-S
External Static Pressure: 100Pa
Power Source: 230-240V, 50Hz



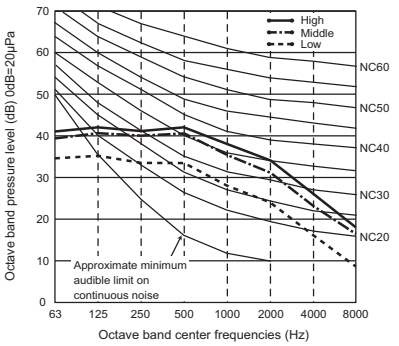
PEFY-P50VMM-E-S
External Static Pressure: 30Pa
Power Source: 230-240V, 50Hz



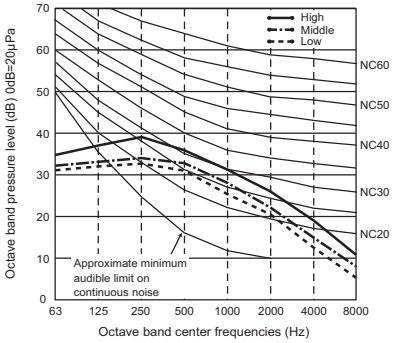
PEFY-P50VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



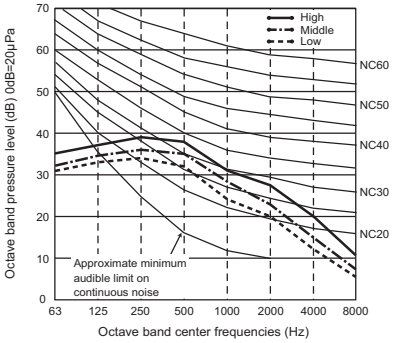
PEFY-P50VMM-E-S
External Static Pressure: 100Pa
Power Source: 230-240V, 50Hz



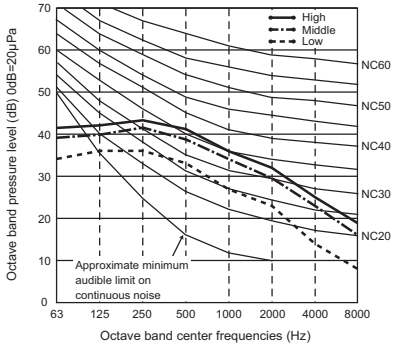
PEFY-P63VMM-E-S
External Static Pressure: 30Pa
Power Source: 230-240V, 50Hz



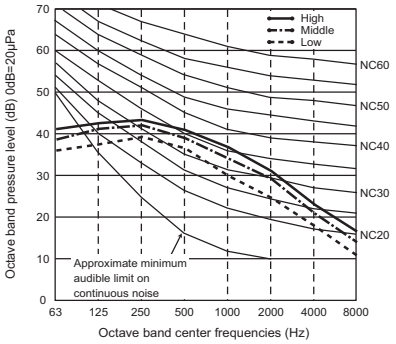
PEFY-P63VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



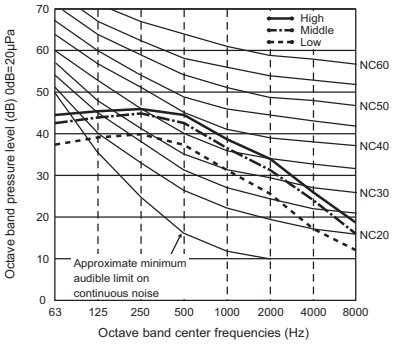
PEFY-P63VMM-E-S
External Static Pressure: 100Pa
Power Source: 230-240V, 50Hz



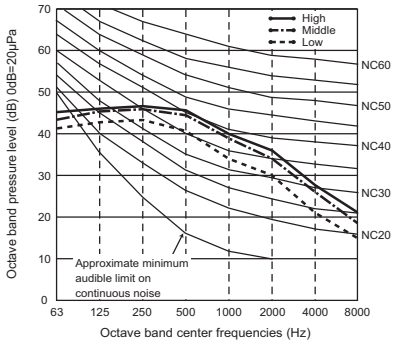
PEFY-P71,80VMM-E-S
External Static Pressure: 30Pa
Power Source: 230-240V, 50Hz



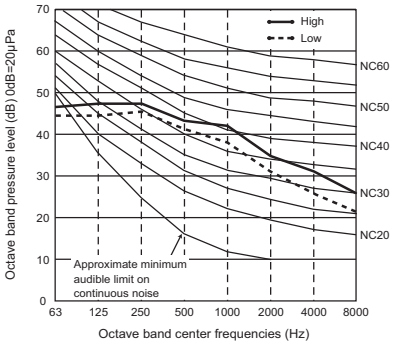
PEFY-P71,80VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



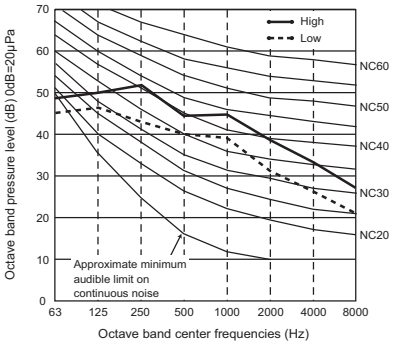
PEFY-P71,80VMM-E-S
External Static Pressure: 100Pa
Power Source: 230-240V, 50Hz



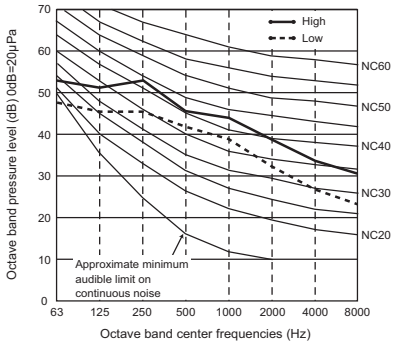
PEFY-P100VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



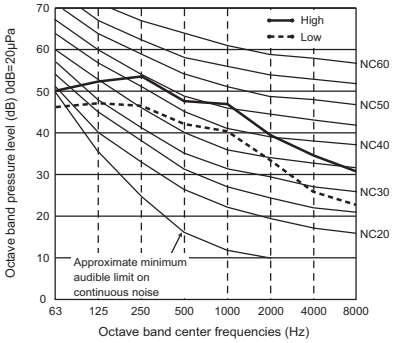
PEFY-P100VMM-E-S
External Static Pressure: 110Pa
Power Source: 230-240V, 50Hz



PEFY-P125VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



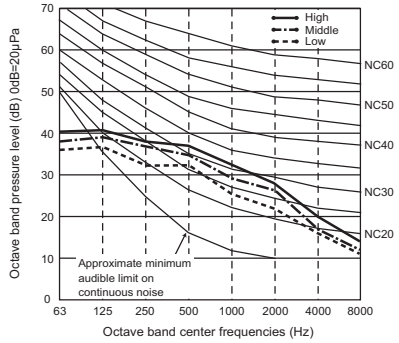
PEFY-P125VMM-E-S
External Static Pressure: 110Pa
Power Source: 230-240V, 50Hz



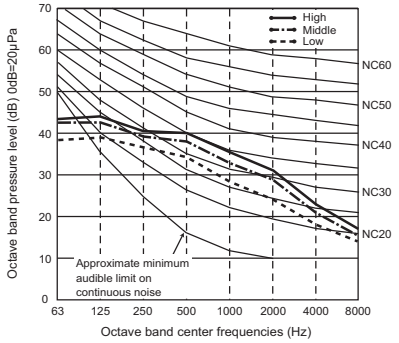
5. SOUND LEVELS

5-2-2. Sound level measured point : With 2m air inlet duct and 1m air outlet duct/Bottom inlet

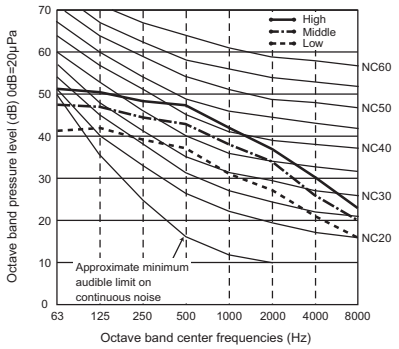
PEFY-P20,25VMM-E-S
External Static Pressure: 30Pa
Power Source: 220V, 50Hz



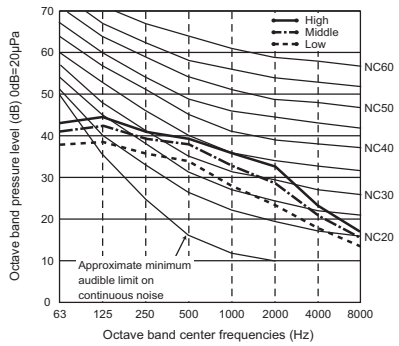
PEFY-P20,25VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



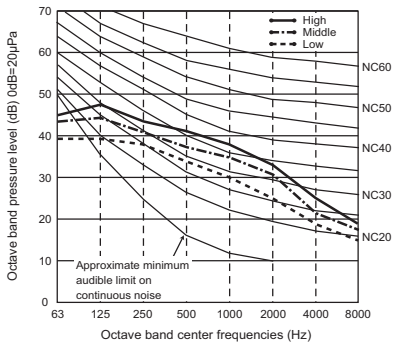
PEFY-P20,25VMM-E-S
External Static Pressure: 100Pa
Power Source: 220V, 50Hz



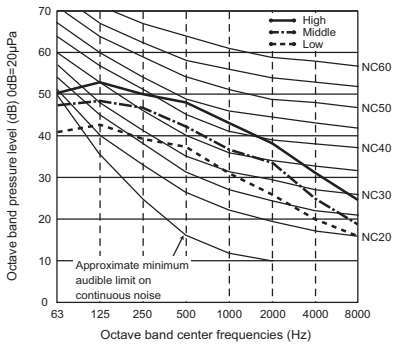
PEFY-P32VMM-E-S
External Static Pressure: 30Pa
Power Source: 220V, 50Hz



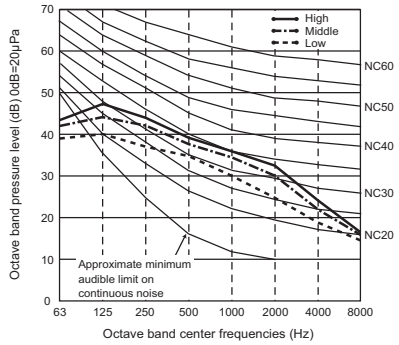
PEFY-P32VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



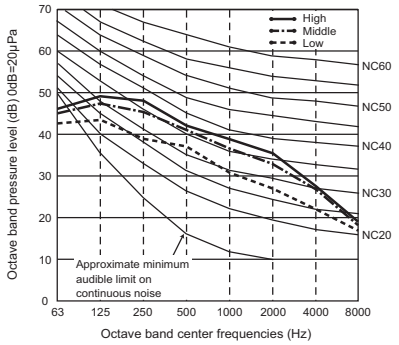
PEFY-P32VMM-E-S
External Static Pressure: 100Pa
Power Source: 220V, 50Hz



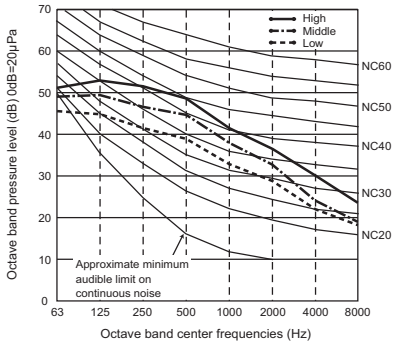
PEFY-P40VMM-E-S
External Static Pressure: 30Pa
Power Source: 220V, 50Hz



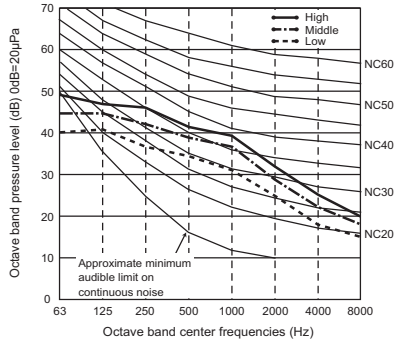
PEFY-P40VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



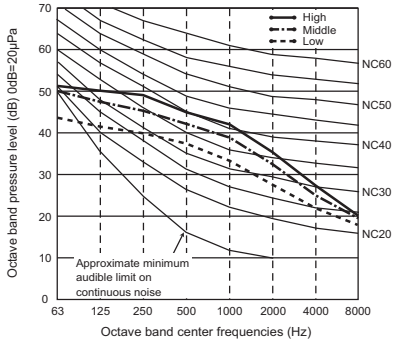
PEFY-P40VMM-E-S
External Static Pressure: 100Pa
Power Source: 220V, 50Hz



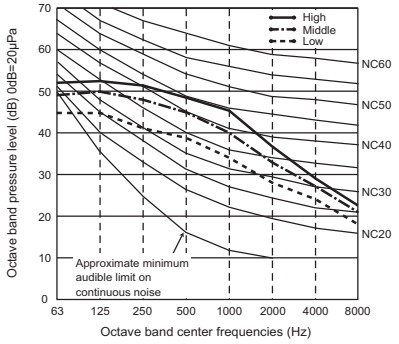
PEFY-P50VMM-E-S
External Static Pressure: 30Pa
Power Source: 220V, 50Hz



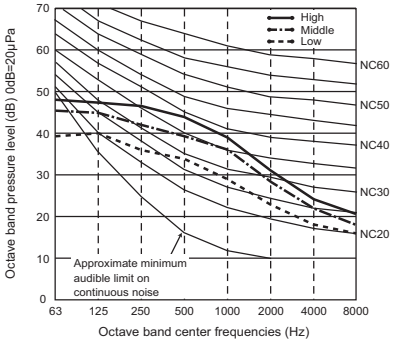
PEFY-P50VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



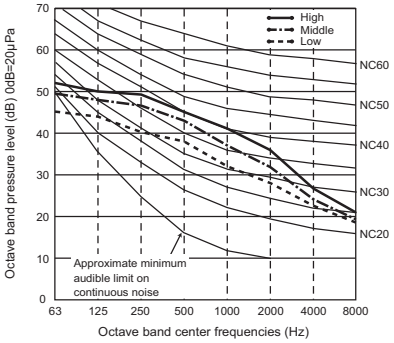
PEFY-P50VMM-E-S
External Static Pressure: 100Pa
Power Source: 220V, 50Hz



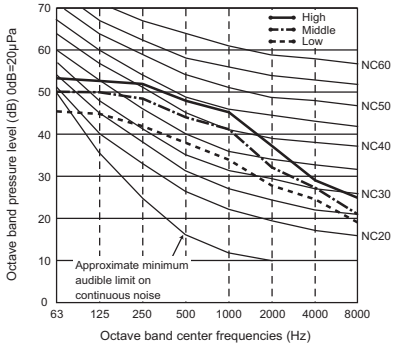
PEFY-P63VMM-E-S
External Static Pressure: 30Pa
Power Source: 220V, 50Hz



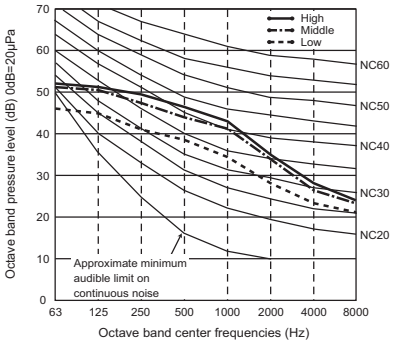
PEFY-P63VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



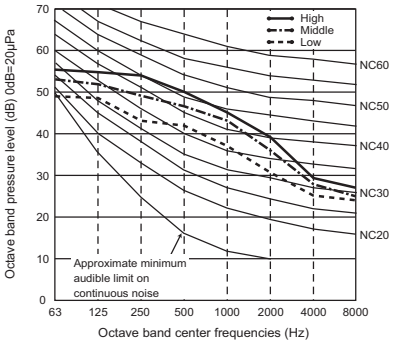
PEFY-P63VMM-E-S
External Static Pressure: 100Pa
Power Source: 220V, 50Hz



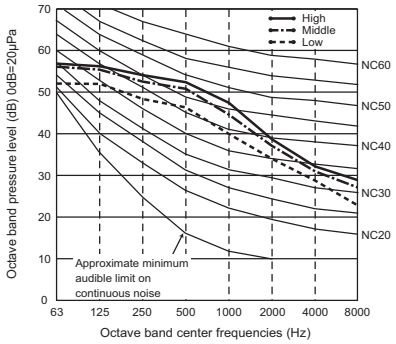
PEFY-P71,80VMM-E-S
External Static Pressure: 30Pa
Power Source: 220V, 50Hz



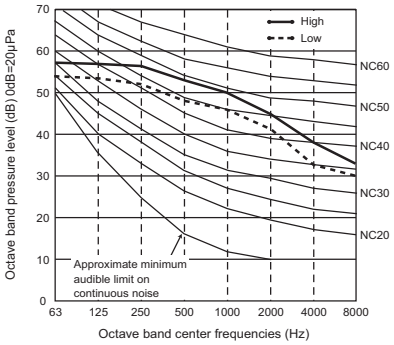
PEFY-P71,80VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



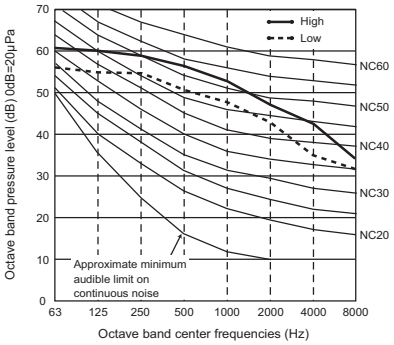
PEFY-P71,80VMM-E-S
External Static Pressure: 100Pa
Power Source: 220V, 50Hz



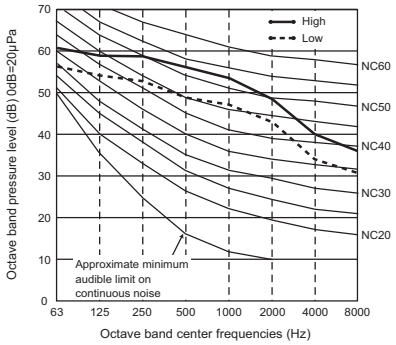
PEFY-P100VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



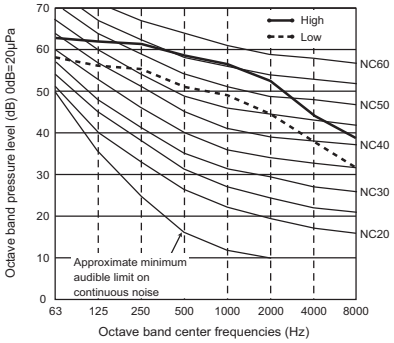
PEFY-P100VMM-E-S
External Static Pressure: 110Pa
Power Source: 220V, 50Hz



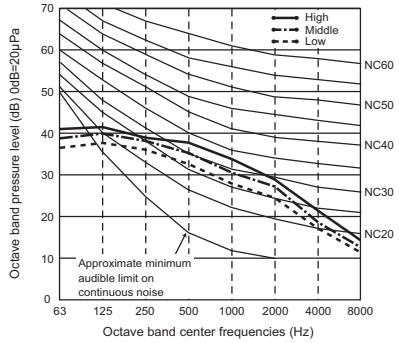
PEFY-P125VMM-E-S
External Static Pressure: 50Pa
Power Source: 220V, 50Hz



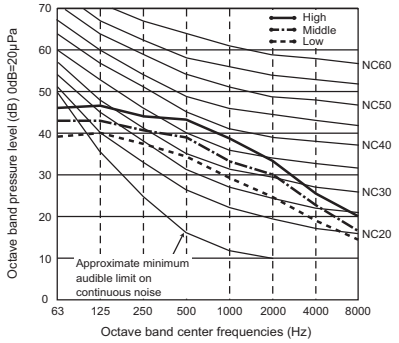
PEFY-P125VMM-E-S
External Static Pressure: 110Pa
Power Source: 220V, 50Hz



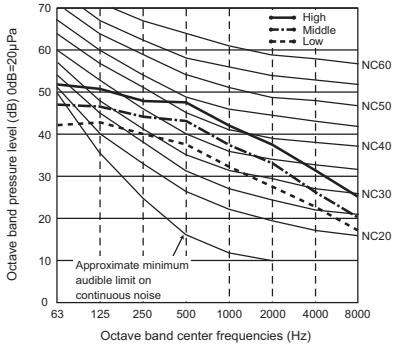
PEFY-P20,25VMM-E-S
External Static Pressure: 30Pa
Power Source: 230-240V, 50Hz



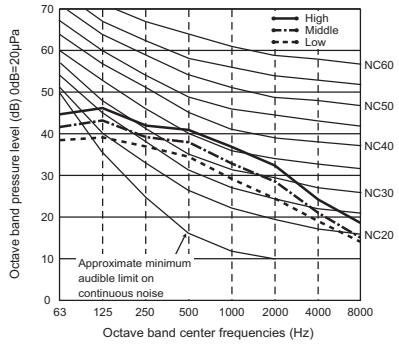
PEFY-P20,25VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



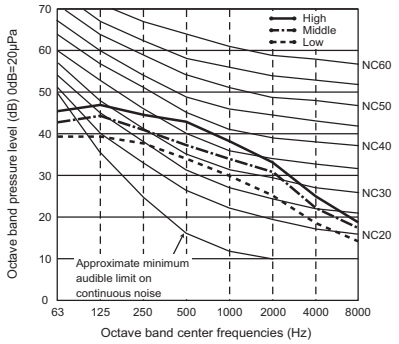
PEFY-P20,25VMM-E-S
External Static Pressure: 100Pa
Power Source: 230-240V, 50Hz



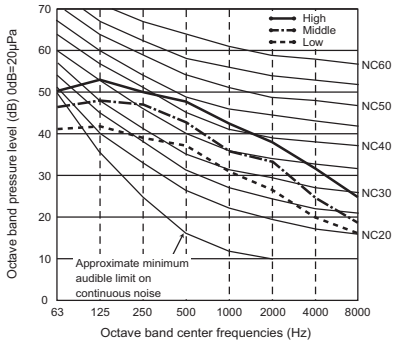
PEFY-P32VMM-E-S
External Static Pressure: 30Pa
Power Source: 230-240V, 50Hz



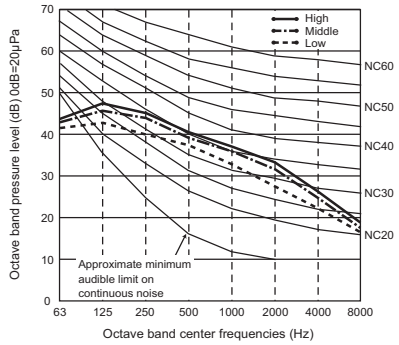
PEFY-P32VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



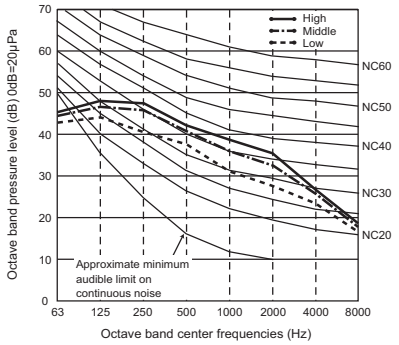
PEFY-P32VMM-E-S
External Static Pressure: 100Pa
Power Source: 230-240V, 50Hz



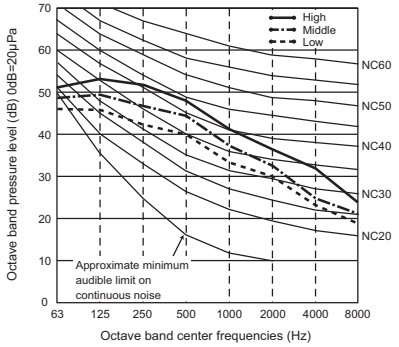
PEFY-P40VMM-E-S
External Static Pressure: 30Pa
Power Source: 230-240V, 50Hz



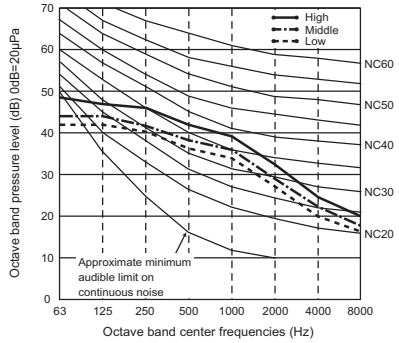
PEFY-P40VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



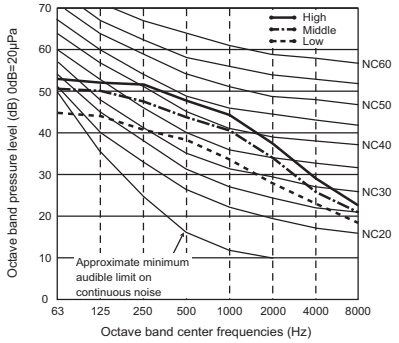
PEFY-P40VMM-E-S
External Static Pressure: 100Pa
Power Source: 230-240V, 50Hz



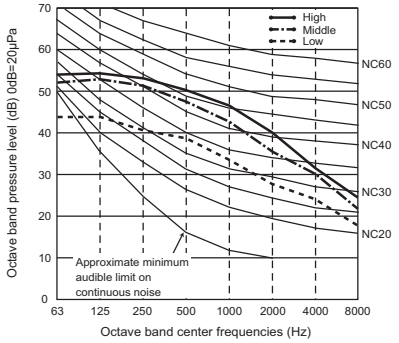
PEFY-P50VMM-E-S
External Static Pressure: 30Pa
Power Source: 230-240V, 50Hz



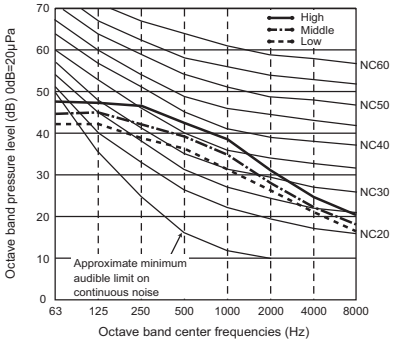
PEFY-P50VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



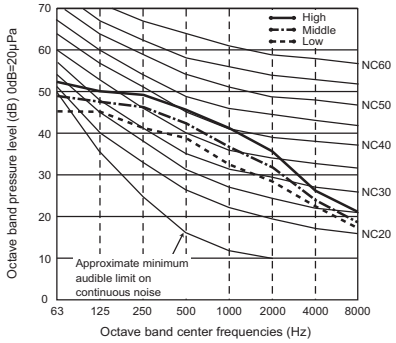
PEFY-P50VMM-E-S
External Static Pressure: 100Pa
Power Source: 230-240V, 50Hz



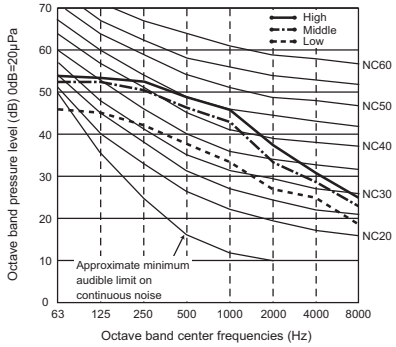
PEFY-P63VMM-E-S
External Static Pressure: 30Pa
Power Source: 230-240V, 50Hz



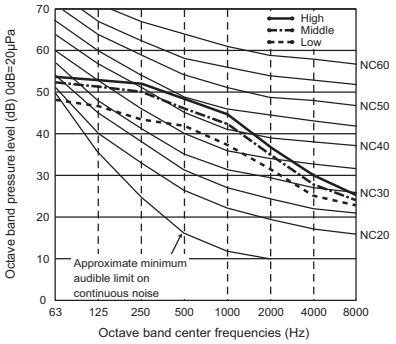
PEFY-P63VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



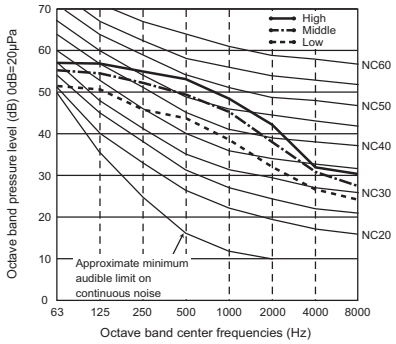
PEFY-P63VMM-E-S
External Static Pressure: 100Pa
Power Source: 230-240V, 50Hz



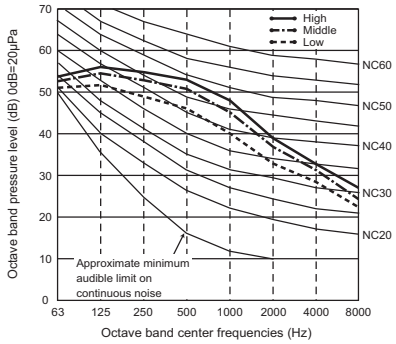
PEFY-P71,80VMM-E-S
External Static Pressure: 30Pa
Power Source: 230-240V, 50Hz



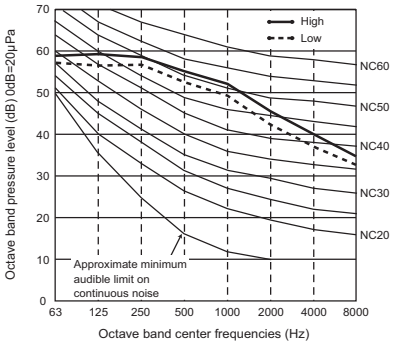
PEFY-P71,80VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



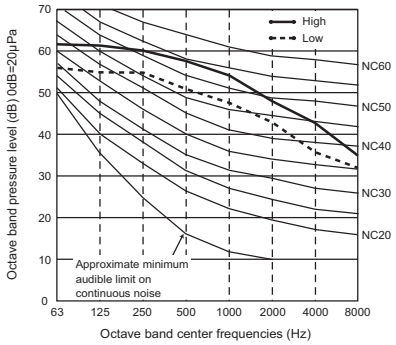
PEFY-P71,80VMM-E-S
External Static Pressure: 100Pa
Power Source: 230-240V, 50Hz



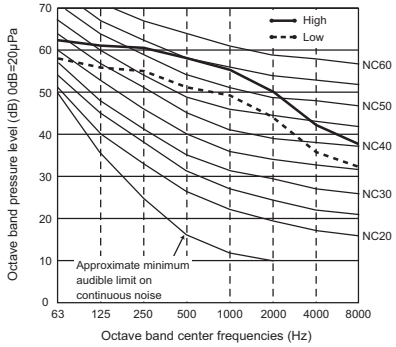
PEFY-P100VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



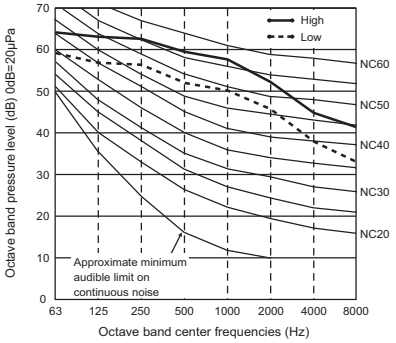
PEFY-P100VMM-E-S
External Static Pressure: 110Pa
Power Source: 230-240V, 50Hz



PEFY-P125VMM-E-S
External Static Pressure: 50Pa
Power Source: 230-240V, 50Hz



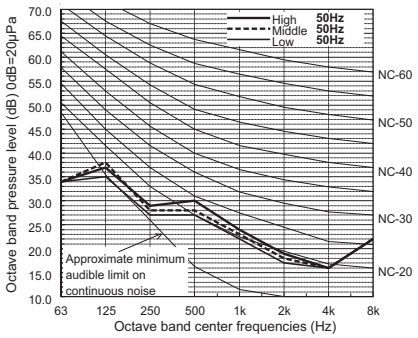
PEFY-P125VMM-E-S
External Static Pressure: 110Pa
Power Source: 230-240V, 50Hz



5-2-3. Sound level measured point : With 1m air inlet duct and 2m air outlet duct

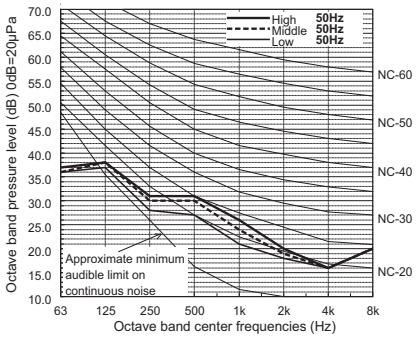
PEFY-P20VMA-E-S

External Static Pressure: 20Pa
Power Source: 220V(50Hz)



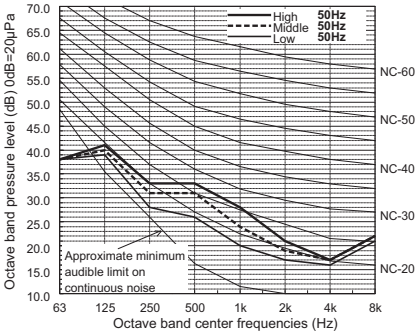
PEFY-P20VMA-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



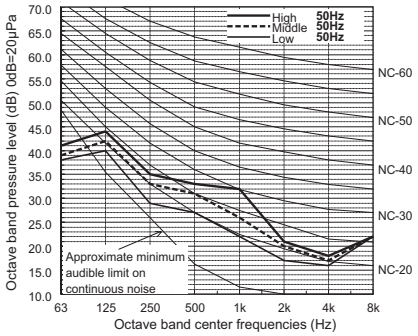
PEFY-P20VMA-E-S

External Static Pressure: 70Pa
Power Source: 220V(50Hz)



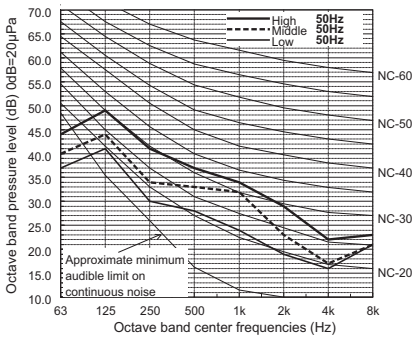
PEFY-P20VMA-E-S

External Static Pressure: 100Pa
Power Source: 220V(50Hz)



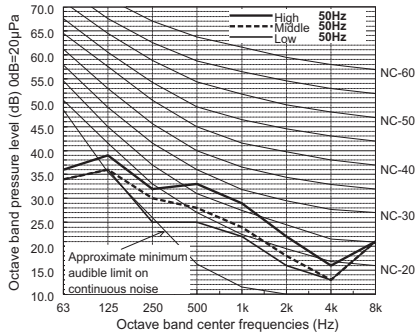
PEFY-P20VMA-E-S

External Static Pressure: 150Pa
Power Source: 220V(50Hz)



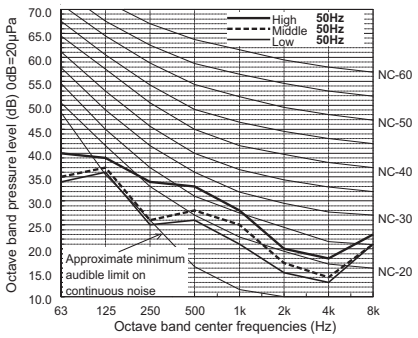
PEFY-P25VMA-E-S

External Static Pressure: 20Pa
Power Source: 220V(50Hz)



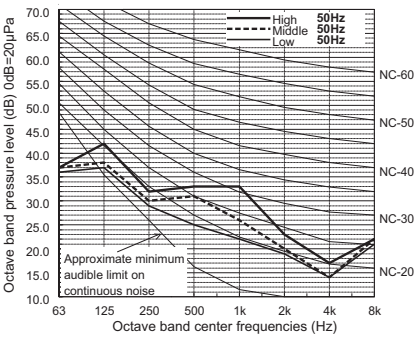
PEFY-P25VMA-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



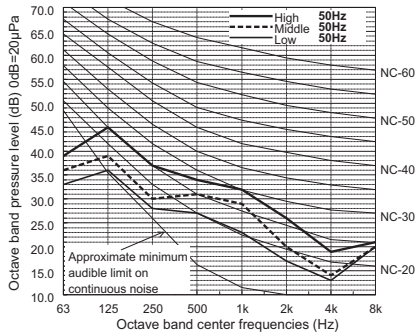
PEFY-P25VMA-E-S

External Static Pressure: 70Pa
Power Source: 220V(50Hz)



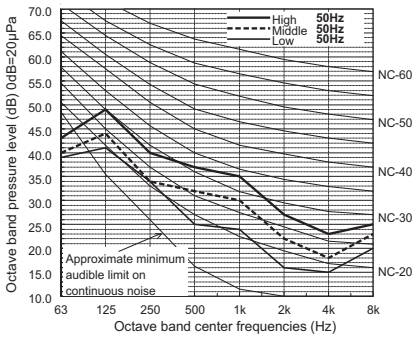
PEFY-P25VMA-E-S

External Static Pressure: 100Pa
Power Source: 220V(50Hz)



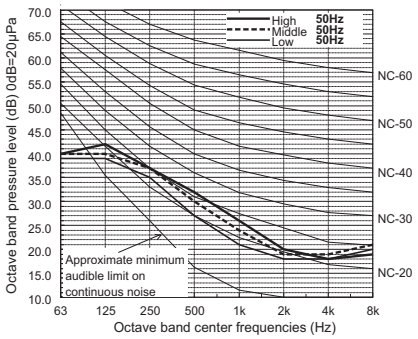
PEFY-P25VMA-E-S

External Static Pressure: 150Pa
Power Source: 220V(50Hz)



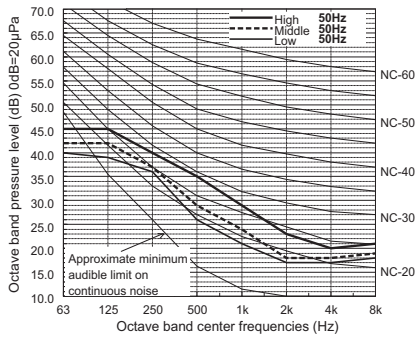
PEFY-P32VMA-E-S

External Static Pressure: 20Pa
Power Source: 220V(50Hz)



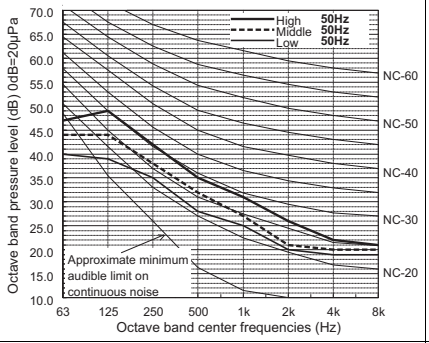
PEFY-P32VMA-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



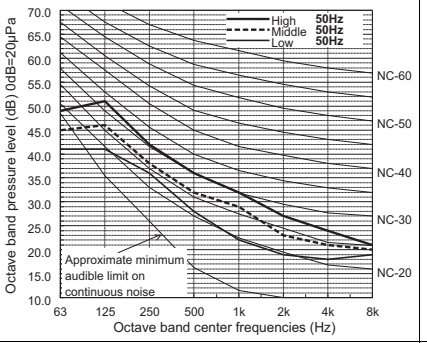
PEFY-P32VMA-E-S

External Static Pressure: 70Pa
Power Source: 220V(50Hz)



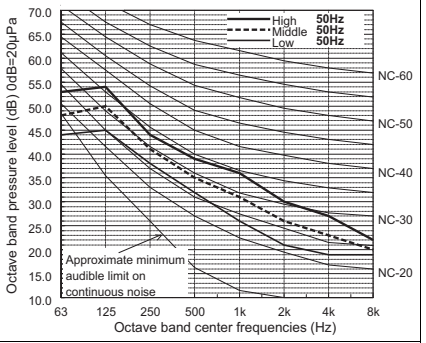
PEFY-P32VMA-E-S

External Static Pressure: 100Pa
Power Source: 220V(50Hz)



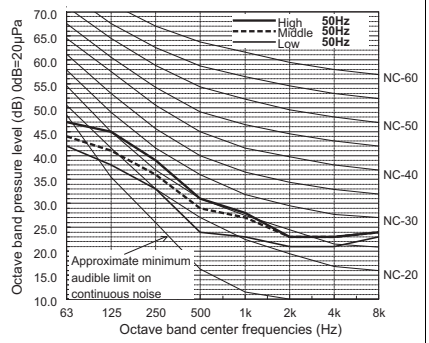
PEFY-P32VMA-E-S

External Static Pressure: 150Pa
Power Source: 220V(50Hz)



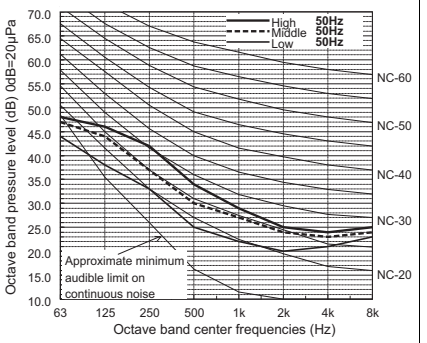
PEFY-P40VMA-E-S

External Static Pressure: 20Pa
Power Source: 220V(50Hz)



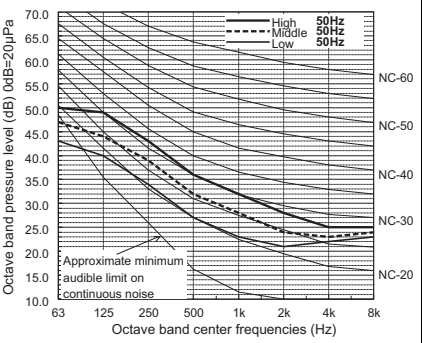
PEFY-P40VMA-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



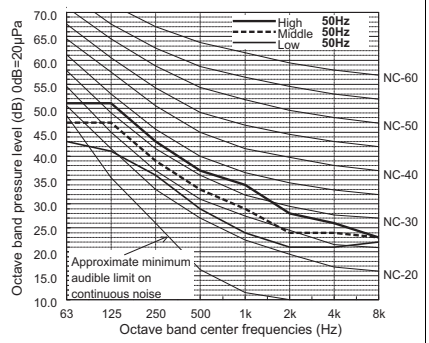
PEFY-P40VMA-E-S

External Static Pressure: 70Pa
Power Source: 220V(50Hz)



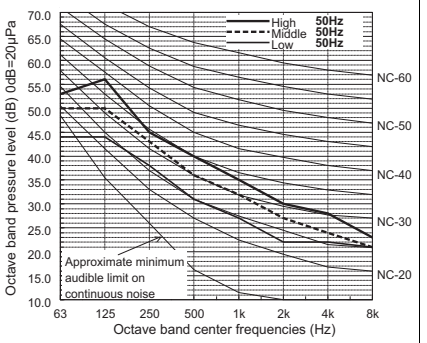
PEFY-P40VMA-E-S

External Static Pressure: 100Pa
Power Source: 220V(50Hz)



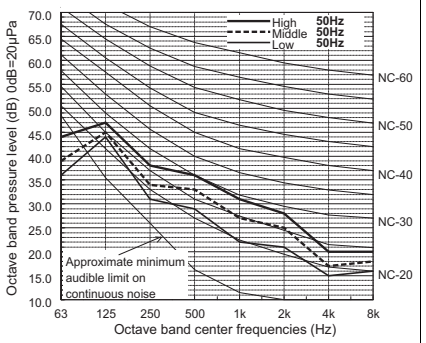
PEFY-P40VMA-E-S

External Static Pressure: 150Pa
Power Source: 220V(50Hz)



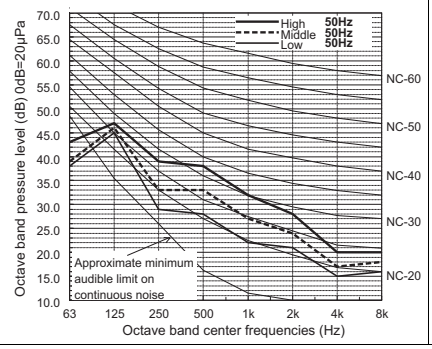
PEFY-P50VMA-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



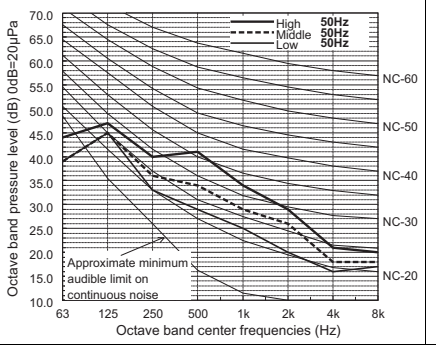
PEFY-P50VMA-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



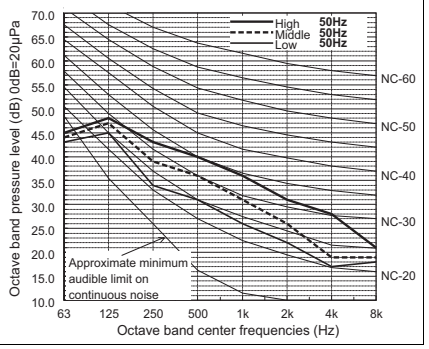
PEFY-P50VMA-E-S

External Static Pressure: 70Pa
Power Source: 220V(50Hz)



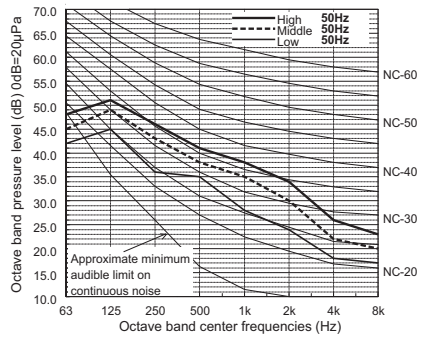
PEFY-P50VMA-E-S

External Static Pressure: 100Pa
Power Source: 220V(50Hz)



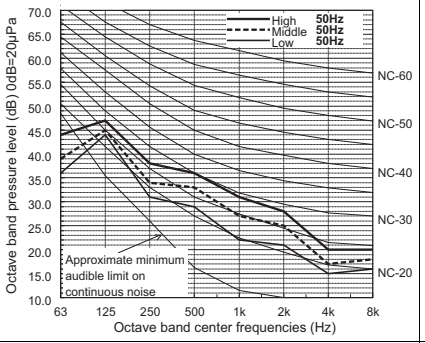
PEFY-P50VMA-E-S

External Static Pressure: 150Pa
Power Source: 220V(50Hz)



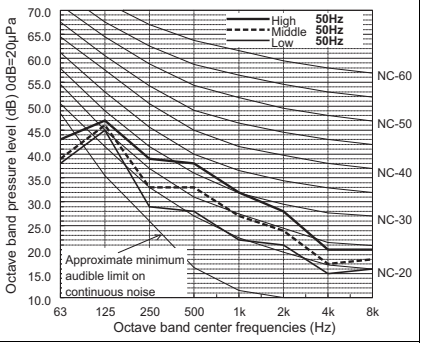
PEFY-P63VMA-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



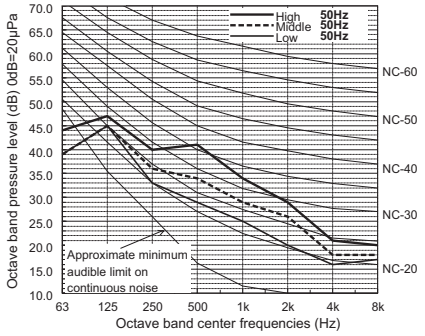
PEFY-P63VMA-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



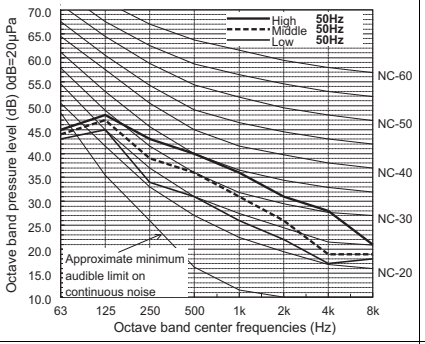
PEFY-P63VMA-E-S

External Static Pressure: 70Pa
Power Source: 220V(50Hz)



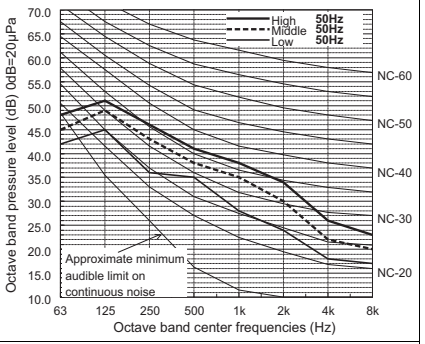
PEFY-P63VMA-E-S

External Static Pressure: 100Pa
Power Source: 220V(50Hz)



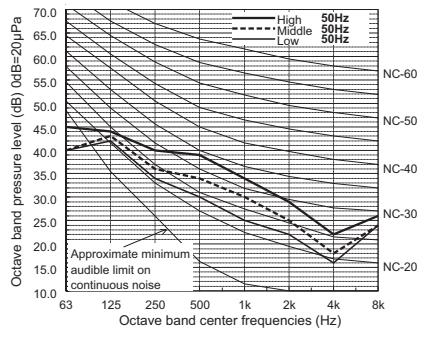
PEFY-P63VMA-E-S

External Static Pressure: 150Pa
Power Source: 220V(50Hz)



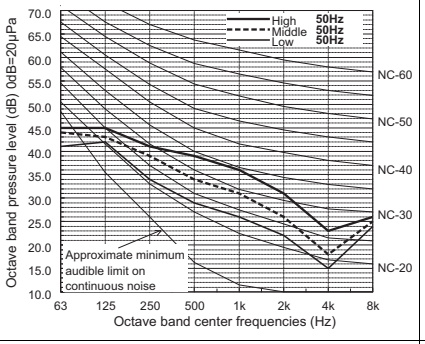
PEFY-P71VMA-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



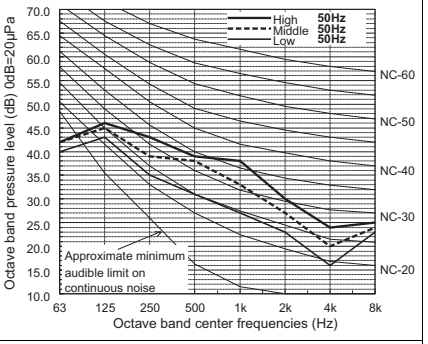
PEFY-P71VMA-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



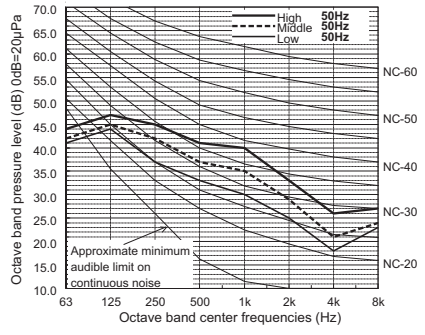
PEFY-P71VMA-E-S

External Static Pressure: 70Pa
Power Source: 220V(50Hz)



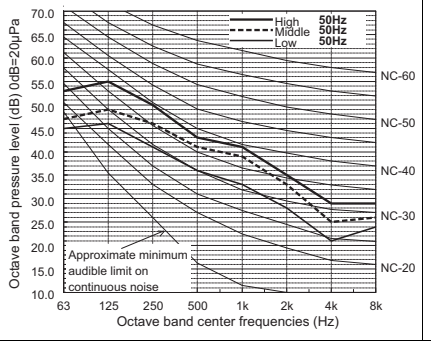
PEFY-P71VMA-E-S

External Static Pressure: 100Pa
Power Source: 220V(50Hz)



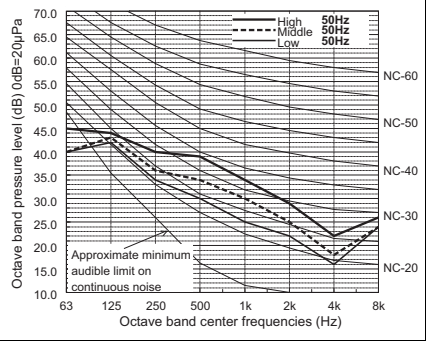
PEFY-P71VMA-E-S

External Static Pressure: 150Pa
Power Source: 220V(50Hz)



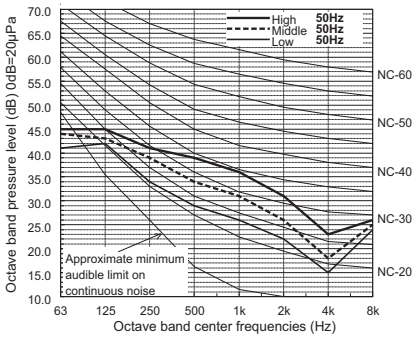
PEFY-P80VMA-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



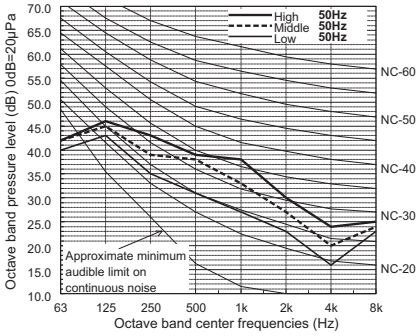
PEFY-P80VMA-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



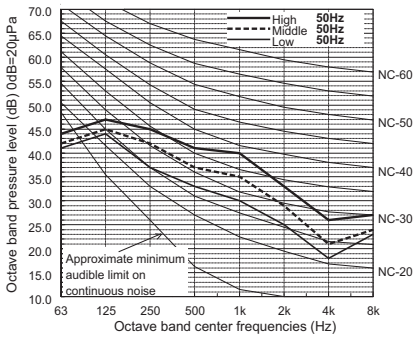
PEFY-P80VMA-E-S

External Static Pressure: 70Pa
Power Source: 220V(50Hz)



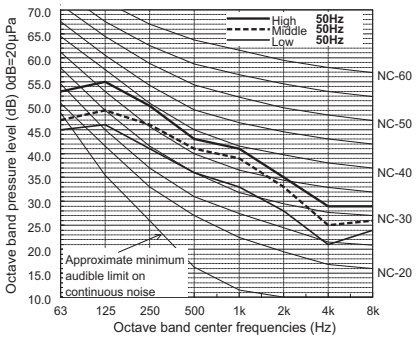
PEFY-P80VMA-E-S

External Static Pressure: 100Pa
Power Source: 220V(50Hz)



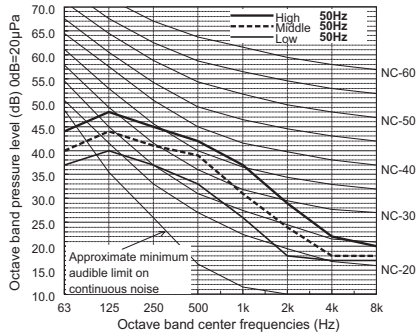
PEFY-P80VMA-E-S

External Static Pressure: 150Pa
Power Source: 220V(50Hz)



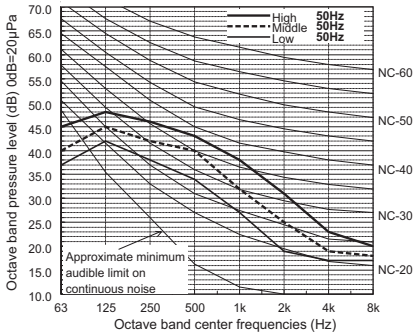
PEFY-P100VMA-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



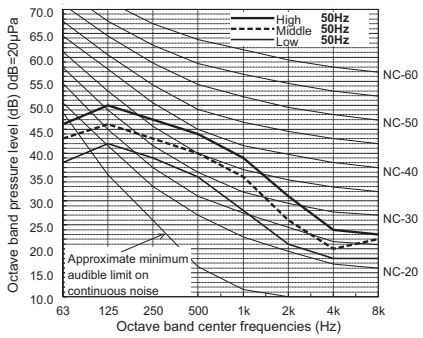
PEFY-P100VMA-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



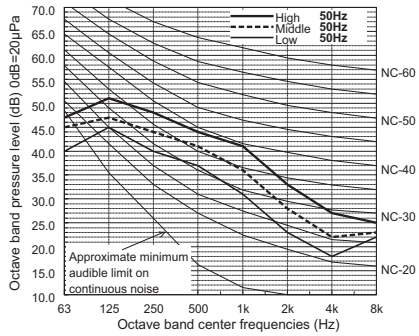
PEFY-P100VMA-E-S

External Static Pressure: 70Pa
Power Source: 220V(50Hz)



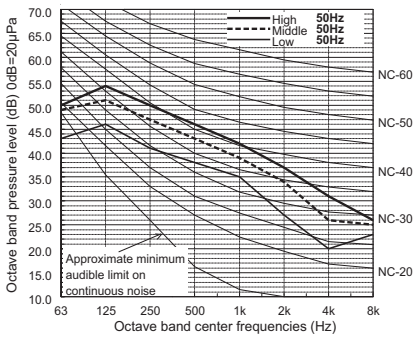
PEFY-P100VMA-E-S

External Static Pressure: 100Pa
Power Source: 220V(50Hz)



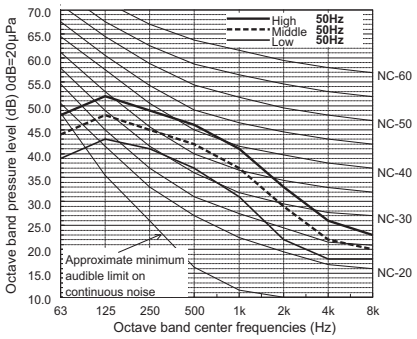
PEFY-P100VMA-E-S

External Static Pressure: 150Pa
Power Source: 220V(50Hz)



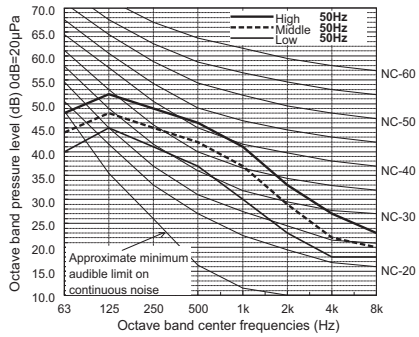
PEFY-P125VMA-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



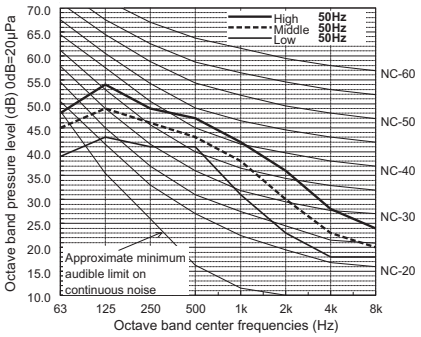
PEFY-P125VMA-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



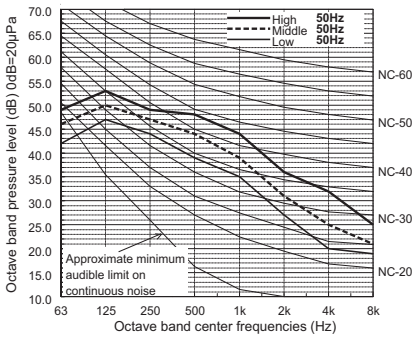
PEFY-P125VMA-E-S

External Static Pressure: 70Pa
Power Source: 220V(50Hz)



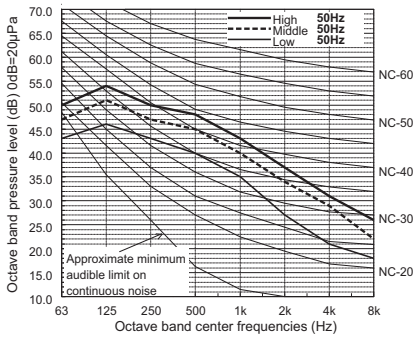
PEFY-P125VMA-E-S

External Static Pressure: 90Pa
Power Source: 220V(50Hz)



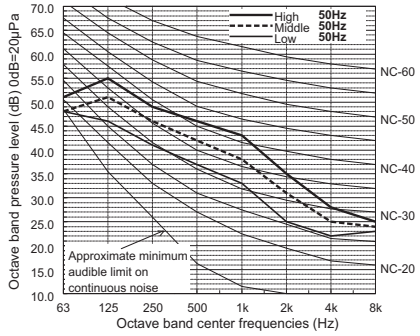
PEFY-P125VMA-E-S

External Static Pressure: 110Pa
Power Source: 220V(50Hz)



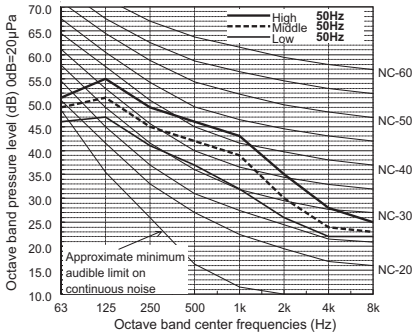
PEFY-P140VMA-E-S

External Static Pressure: 35Pa
Power Source: 220V(50Hz)



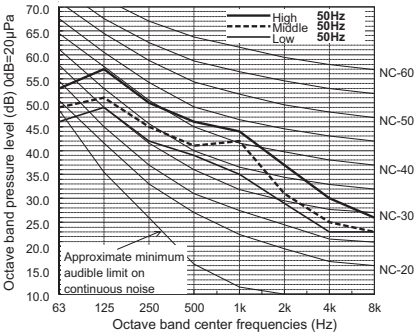
PEFY-P140VMA-E-S

External Static Pressure: 50Pa
Power Source: 220V(50Hz)



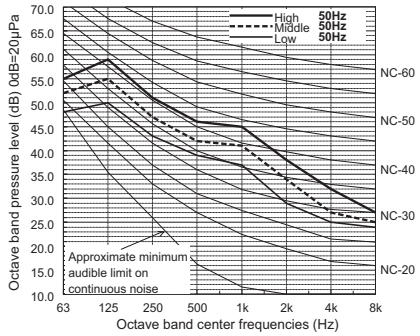
PEFY-P140VMA-E-S

External Static Pressure: 70Pa
Power Source: 220V(50Hz)



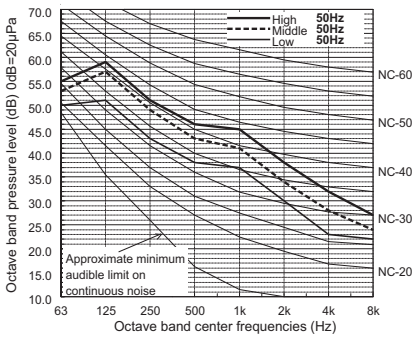
PEFY-P140VMA-E-S

External Static Pressure: 90Pa
Power Source: 220V(50Hz)



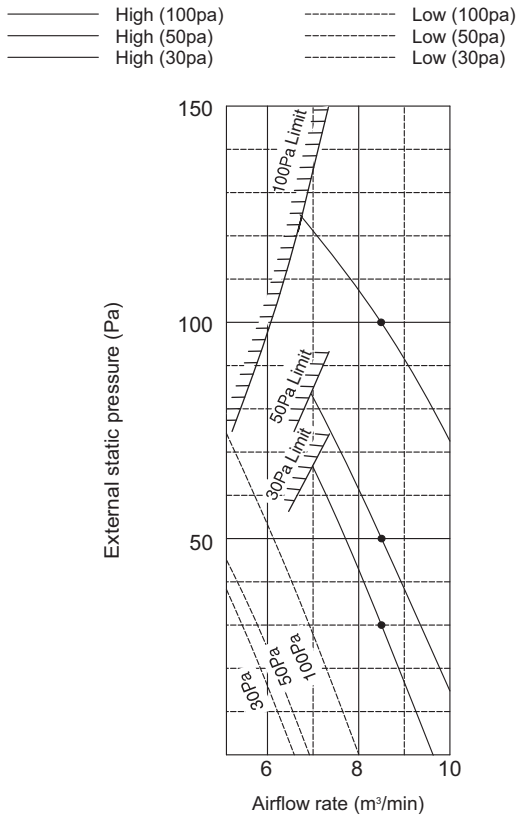
PEFY-P140VMA-E-S

External Static Pressure: 110Pa
Power Source: 220V(50Hz)

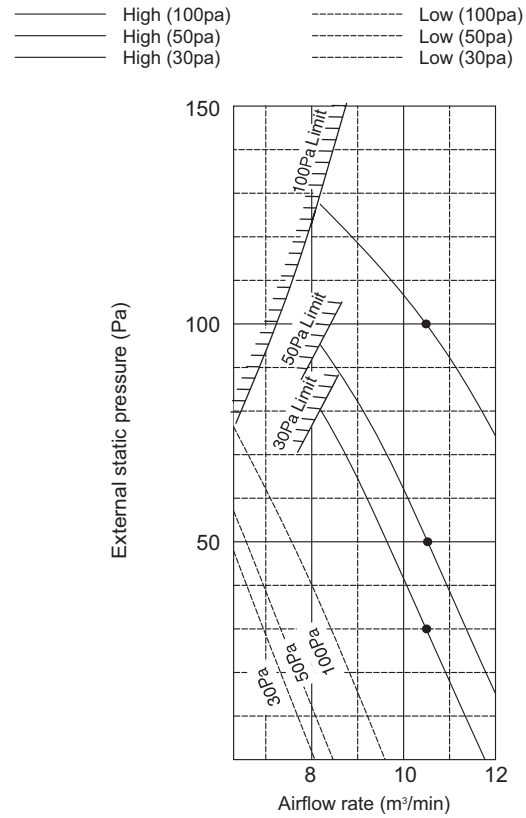


6. FAN CHARACTERISTICS CURVES

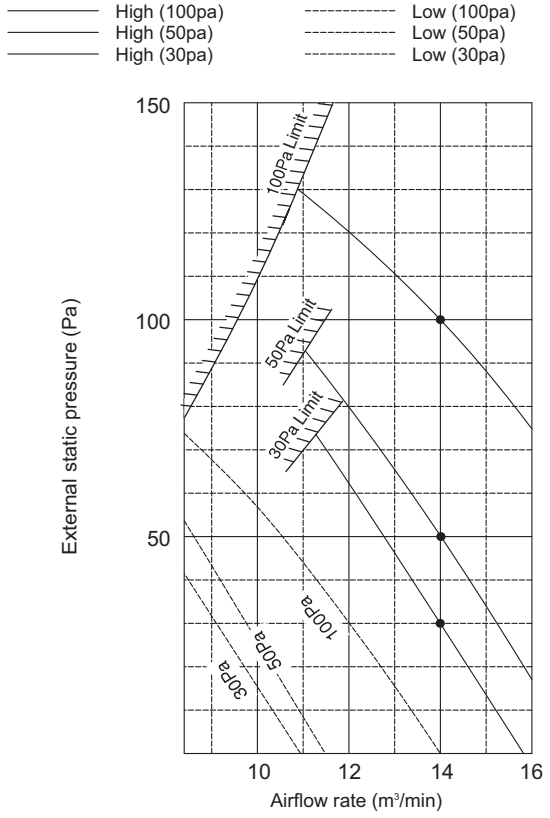
PEFY-P20,25VMM-E-S
External static pressure : 30, 50, 100Pa
Power source : 220, 230, 240V, 50Hz



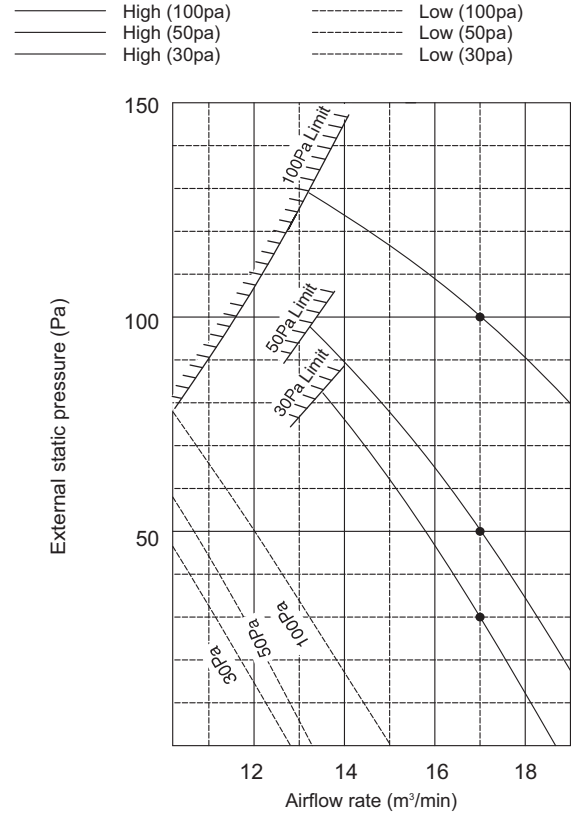
PEFY-P32VMM-E-S
External static pressure : 30, 50, 100Pa
Power source : 220, 230, 240V, 50Hz



PEFY-P40VMM-E-S
External static pressure : 30, 50, 100Pa
Power source : 220, 230, 240V, 50Hz

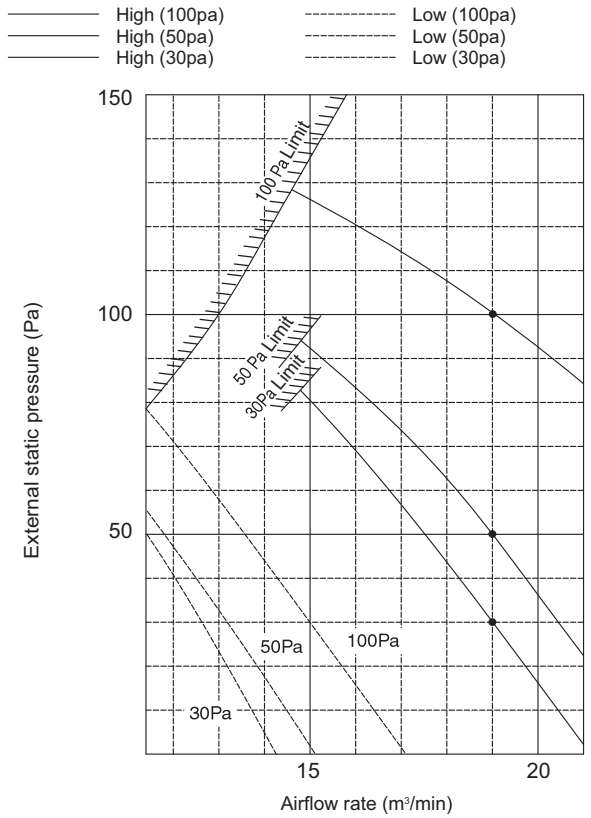


PEFY-P50VMM-E-S
External static pressure : 30, 50, 100Pa
Power source : 220, 230, 240V, 50Hz

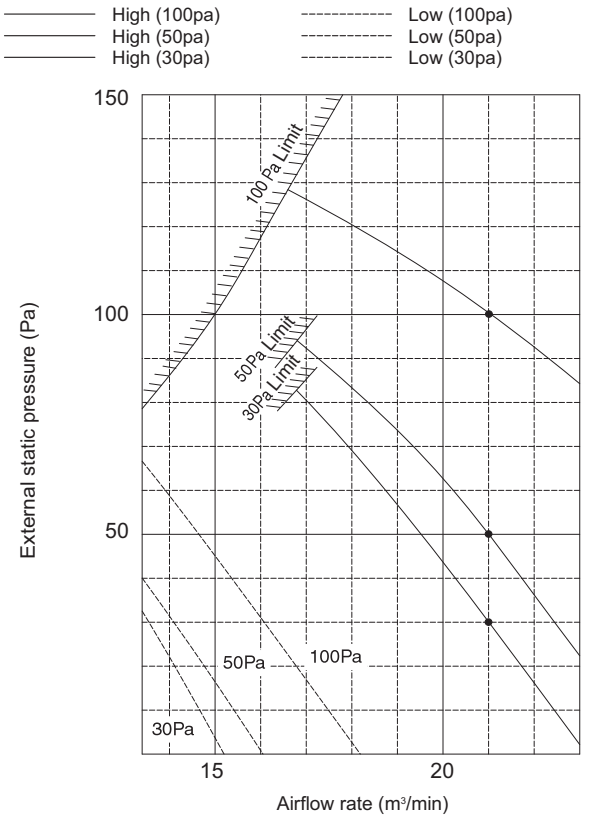


6. FAN CHARACTERISTICS CURVES

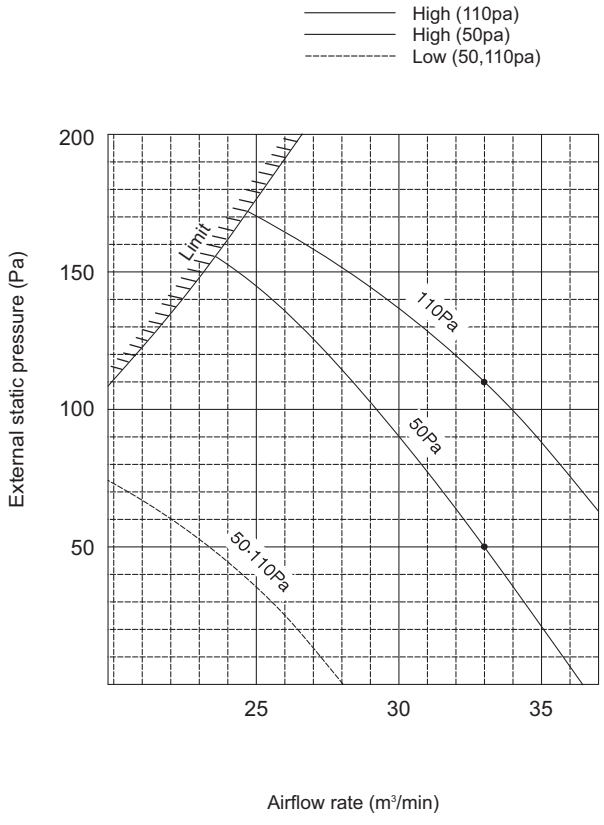
PEFY-P63VMM-E-S
External static pressure : 50, 100, 130Pa
Power source : 220, 230, 240V, 50Hz



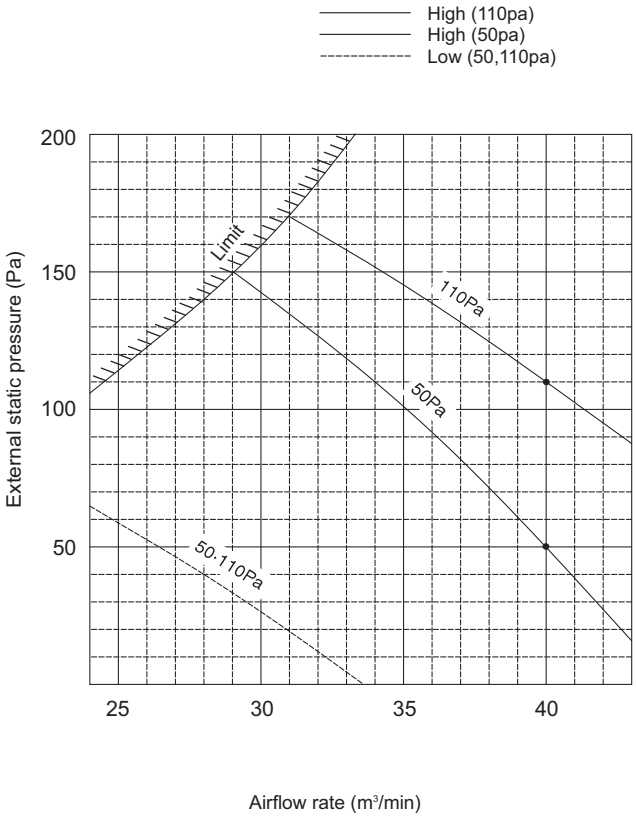
PEFY-P71,80VMM-E-S
External static pressure : 50, 100, 130Pa
Power source : 220, 230, 240V, 50Hz



PEFY-P100VMM-E-S
External static pressure : 50, 100, 130Pa
Power source : 220, 230, 240V, 50Hz

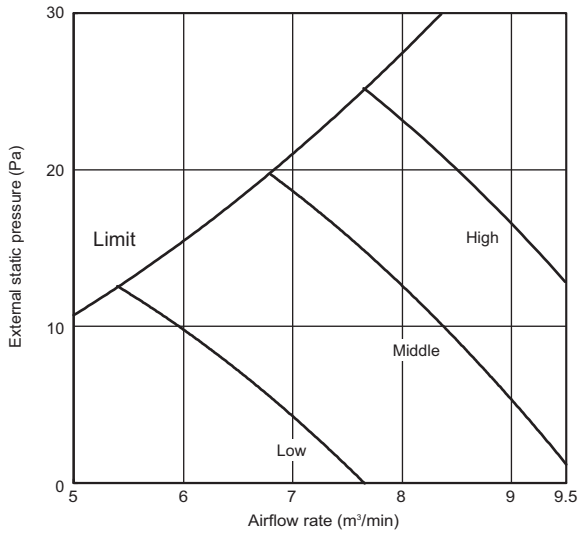


PEFY-P125VMM-E-S
External static pressure : 50, 100, 130Pa
Power source : 220, 230, 240V, 50Hz

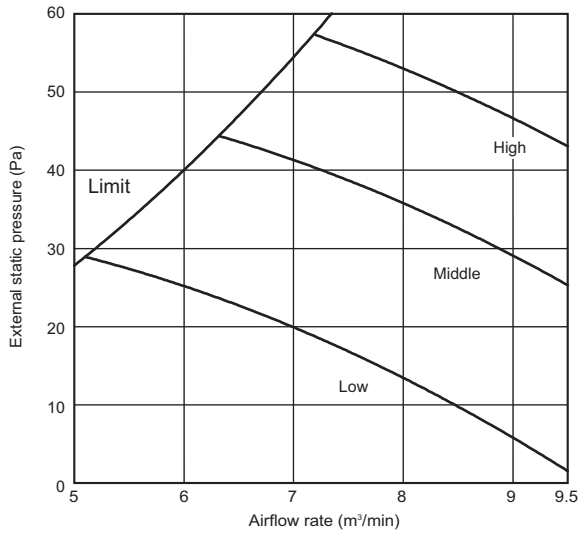


6. FAN CHARACTERISTICS CURVES

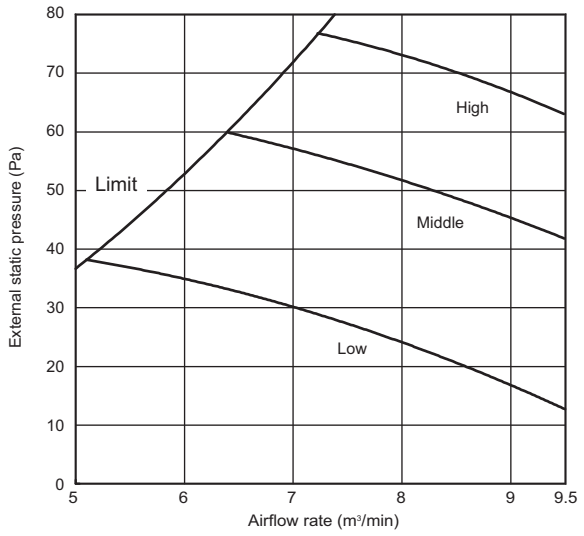
PEFY-P20VMA-E-S
(External static pressure 20Pa) 220V 50Hz



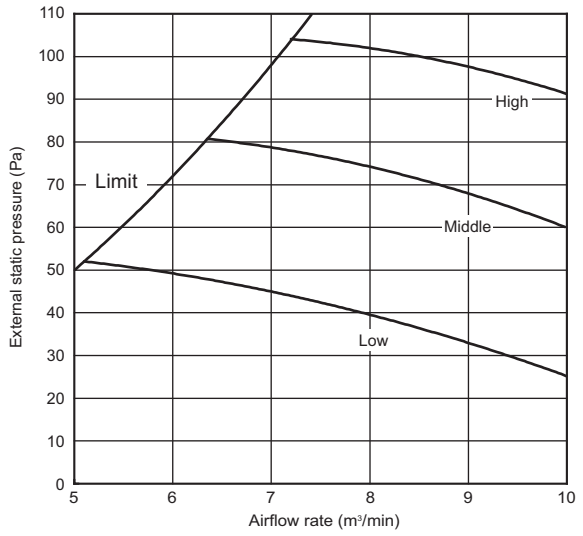
PEFY-P20VMA-E-S
(External static pressure 50Pa) 220V 50Hz



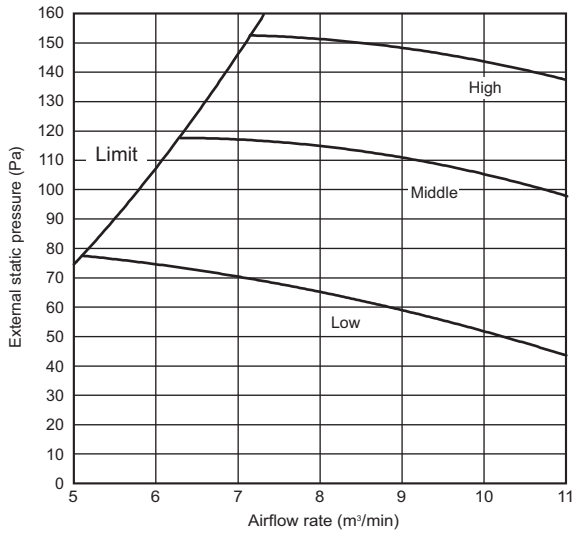
PEFY-P20VMA-E-S
(External static pressure 70Pa) 220V 50Hz



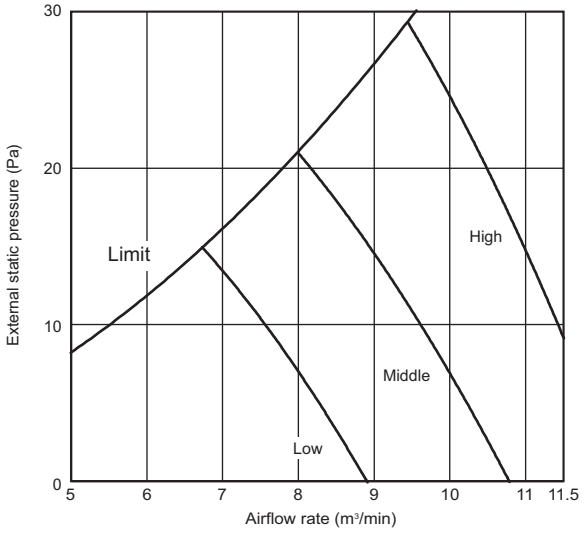
PEFY-P20VMA-E-S
(External static pressure 100Pa) 220V 50Hz



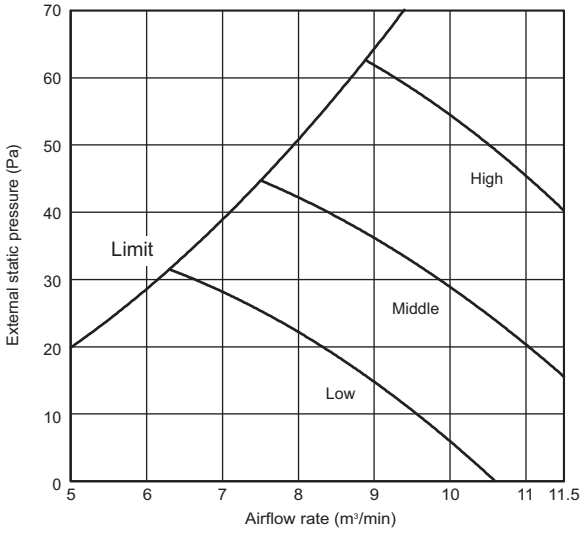
PEFY-P20VMA-E-S
(External static pressure 150Pa) 220V 50Hz



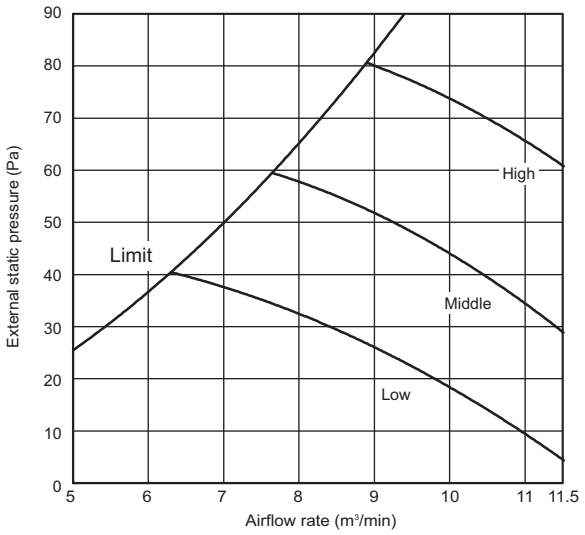
PEFY-P25VMA-E-S
(External static pressure 20Pa) 220V 50Hz



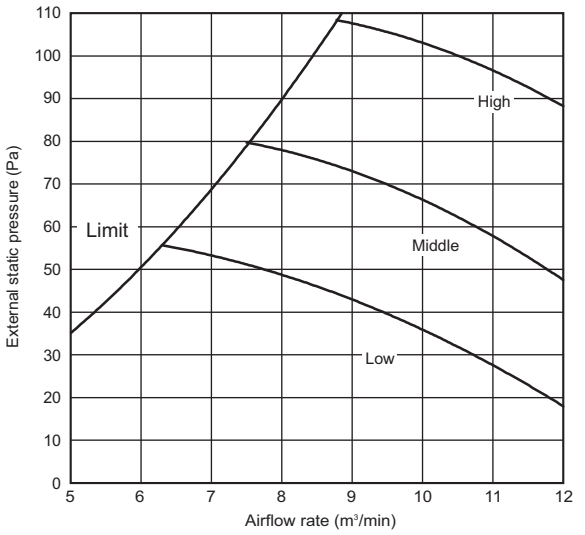
PEFY-P25VMA-E-S
(External static pressure 50Pa) 220V 50Hz



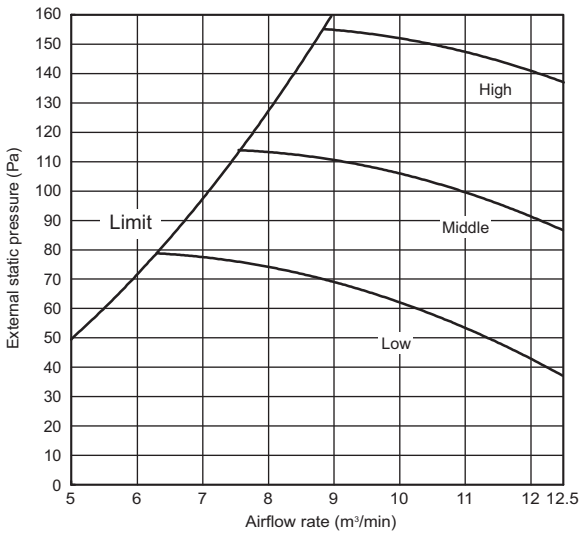
PEFY-P25VMA-E-S
(External static pressure 70Pa) 220V 50Hz



PEFY-P25VMA-E-S
(External static pressure 100Pa) 220V 50Hz

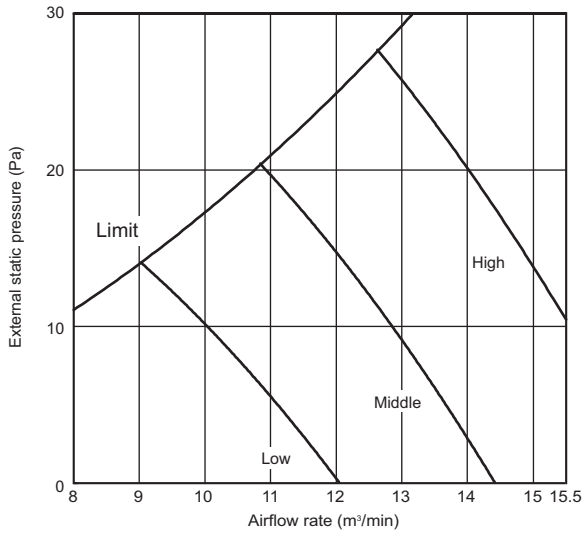


PEFY-P25VMA-E-S
(External static pressure 150Pa) 220V 50Hz

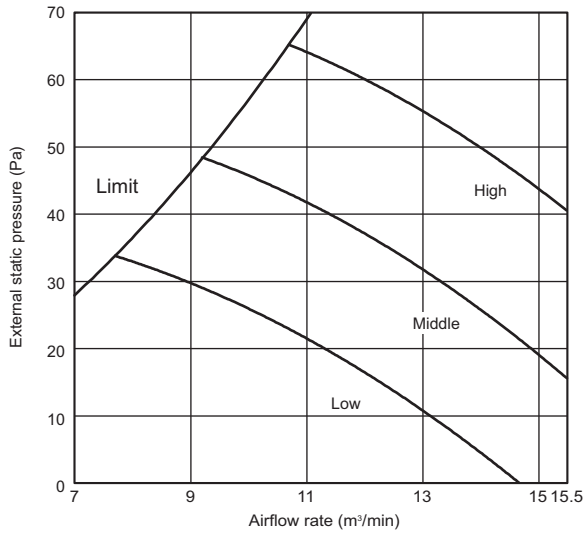


6. FAN CHARACTERISTICS CURVES

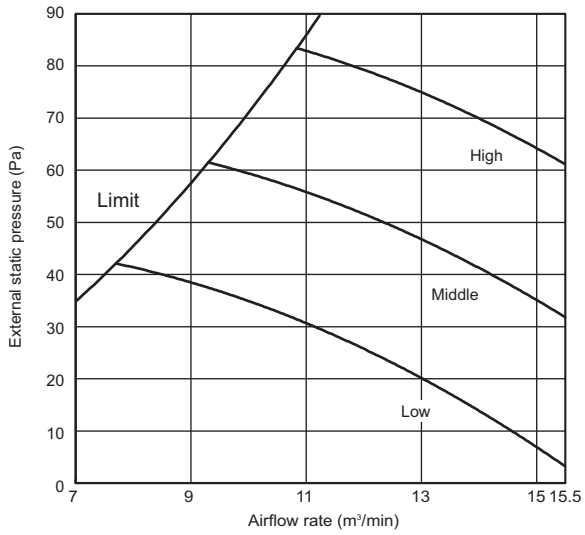
PEFY-P32VMA-E-S
(External static pressure 20Pa) 220V 50Hz



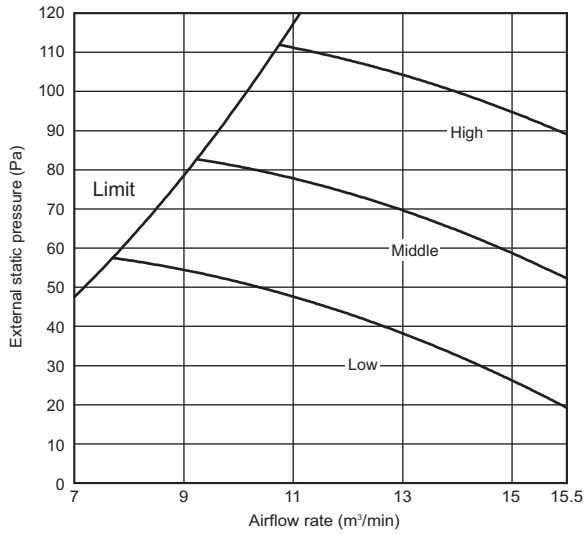
PEFY-P32VMA-E-S
(External static pressure 50Pa) 220V 50Hz



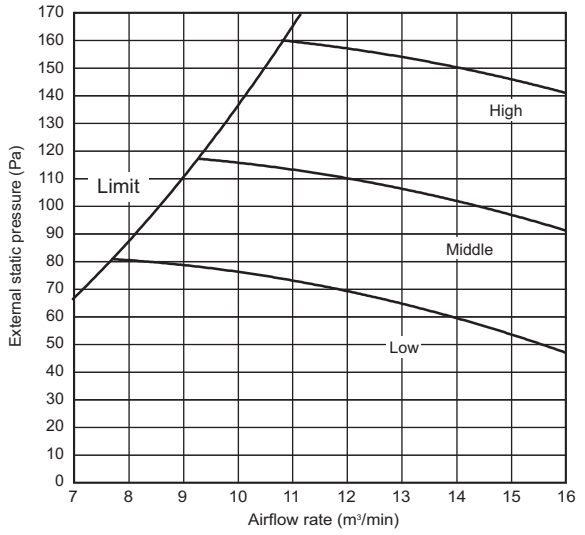
PEFY-P32VMA-E-S
(External static pressure 70Pa) 220V 50Hz



PEFY-P32VMA-E-S
(External static pressure 100Pa) 220V 50Hz

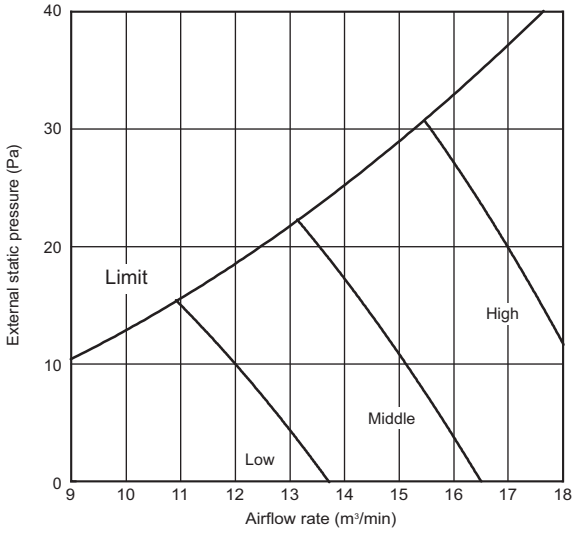


PEFY-P32VMA-E-S
(External static pressure 150Pa) 220V 50Hz

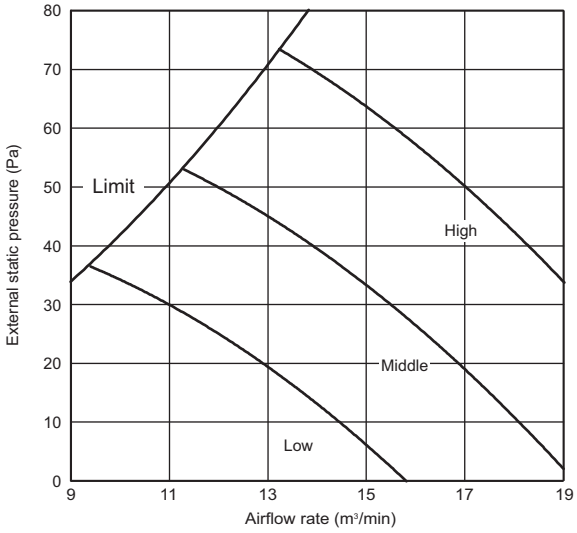


6. FAN CHARACTERISTICS CURVES

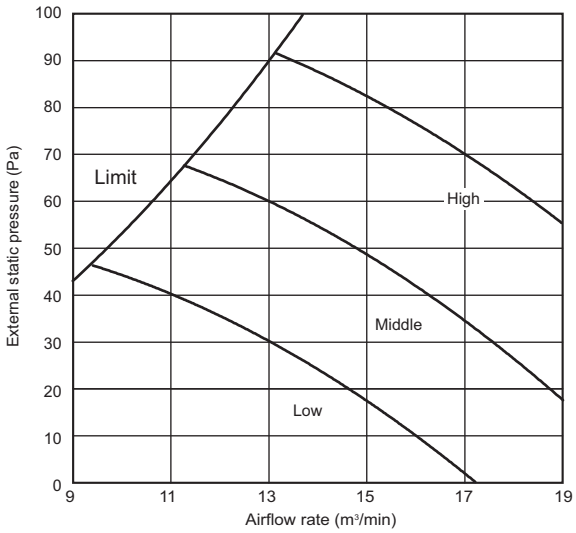
PEFY-P40VMA-E-S
(External static pressure 20Pa) 220V 50Hz



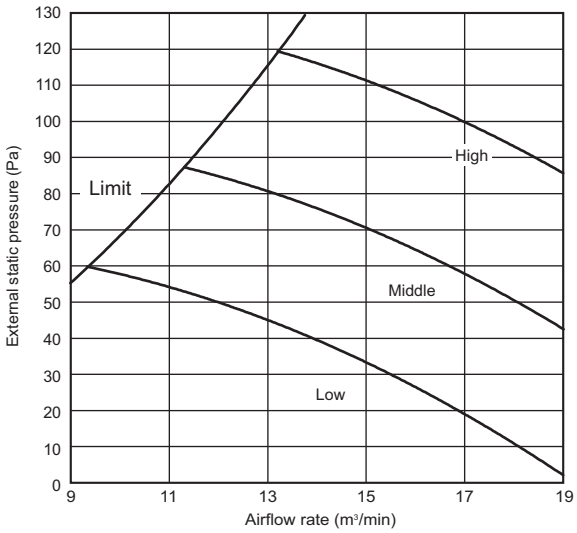
PEFY-P40VMA-E-S
(External static pressure 50Pa) 220V 50Hz



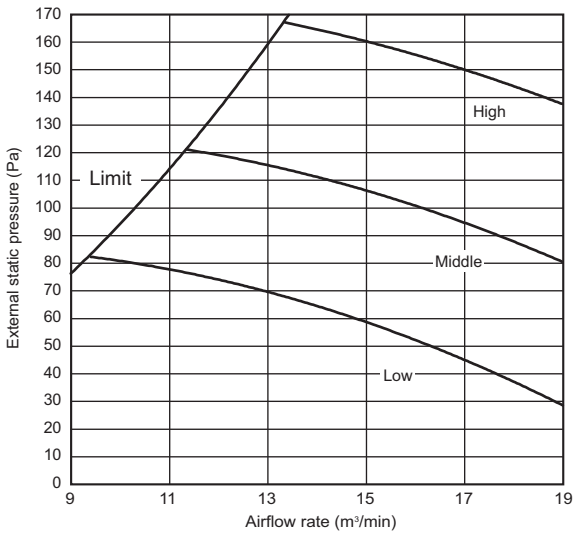
PEFY-P40VMA-E-S
(External static pressure 70Pa) 220V 50Hz



PEFY-P40VMA-E-S
(External static pressure 100Pa) 220V 50Hz

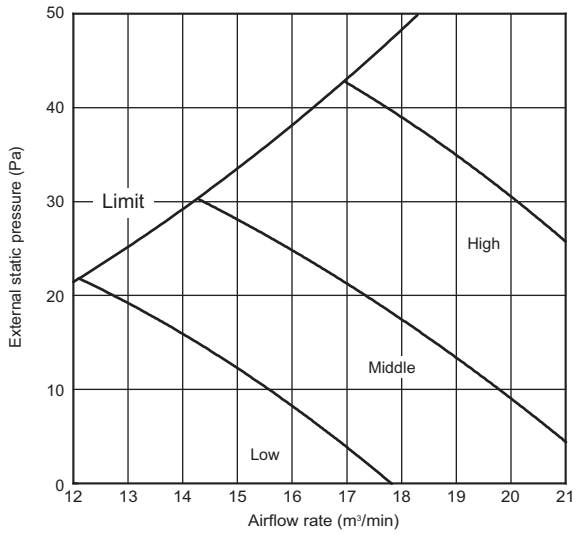


PEFY-P40VMA-E-S
(External static pressure 150Pa) 220V 50Hz

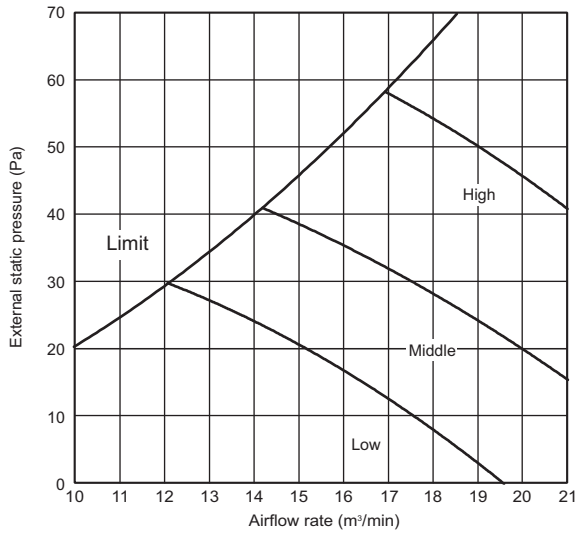


6. FAN CHARACTERISTICS CURVES

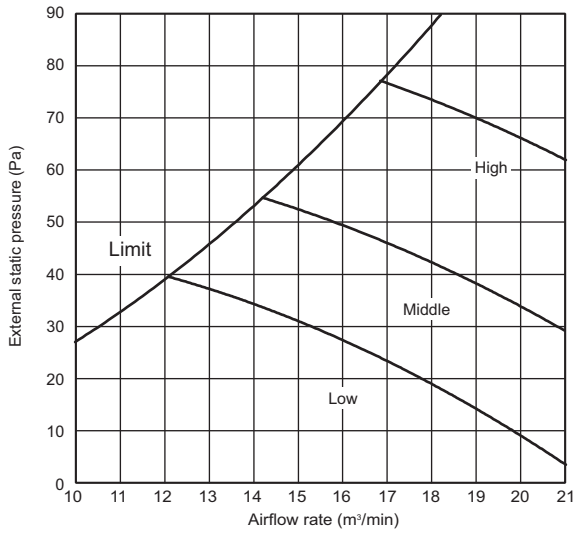
PEFY-P50, 63VMA-E-S
(External static pressure 35Pa) 220V 50Hz



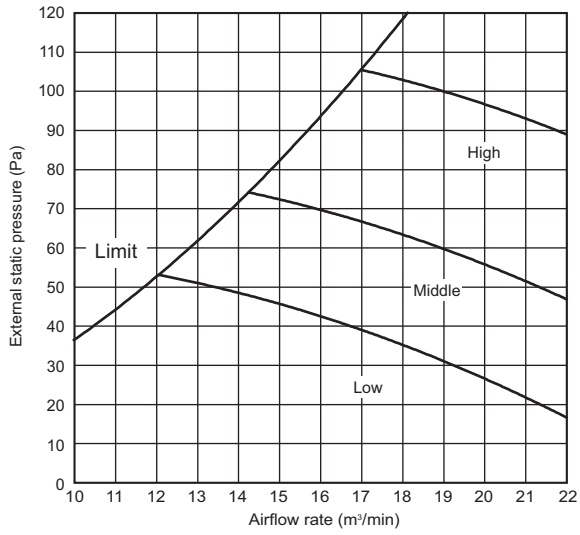
PEFY-P50, 63VMA-E-S
(External static pressure 50Pa) 220V 50Hz



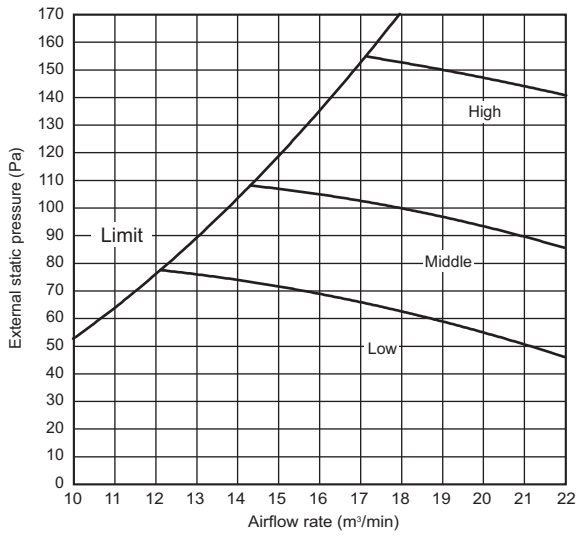
PEFY-P50, 63VMA-E-S
(External static pressure 70Pa) 220V 50Hz



PEFY-P50, 63VMA-E-S
(External static pressure 100Pa) 220V 50Hz

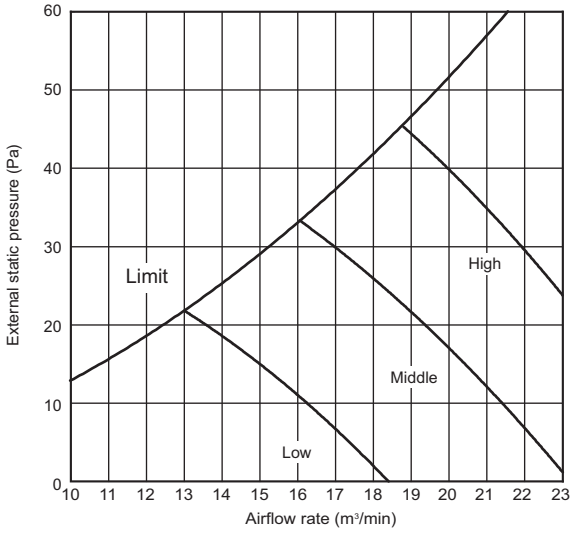


PEFY-P50, 63VMA-E-S
(External static pressure 150Pa) 220V 50Hz

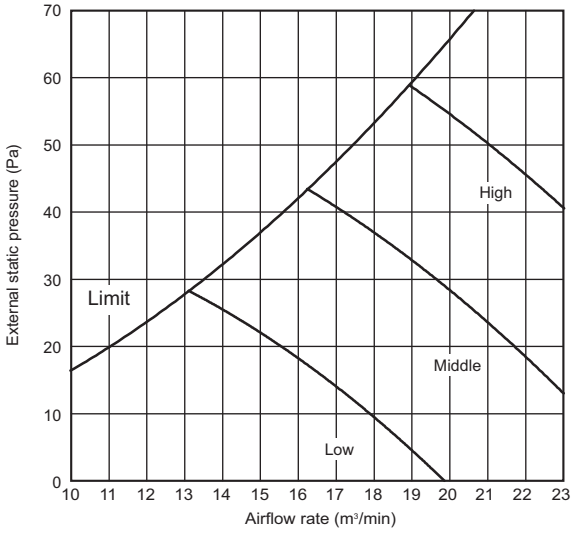


6. FAN CHARACTERISTICS CURVES

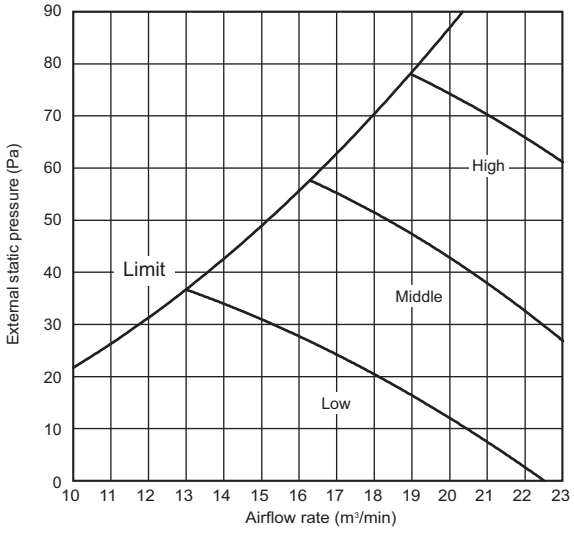
PEFY-P71, 80VMA-E-S
(External static pressure 35Pa) 220V 50Hz



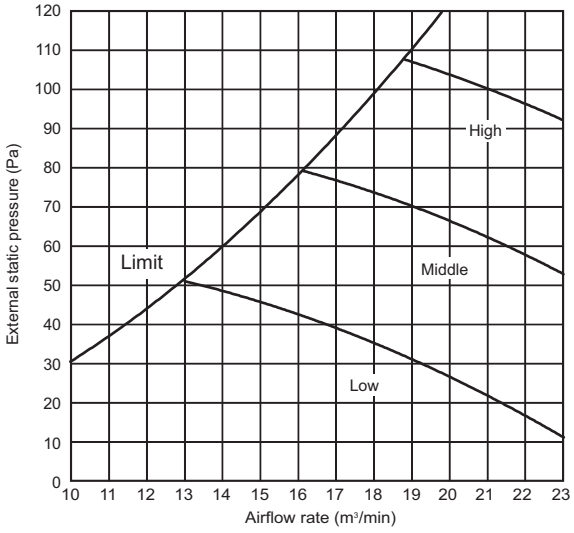
PEFY-P71, 80VMA-E-S
(External static pressure 50Pa) 220V 50Hz



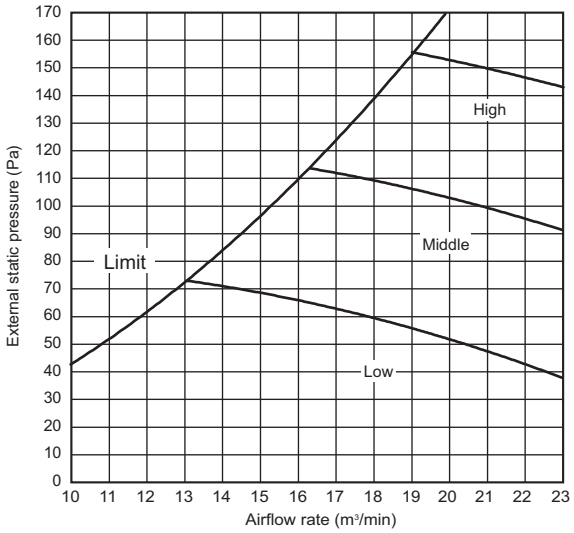
PEFY-P71, 80VMA-E-S
(External static pressure 70Pa) 220V 50Hz



PEFY-P71, 80VMA-E-S
(External static pressure 100Pa) 220V 50Hz

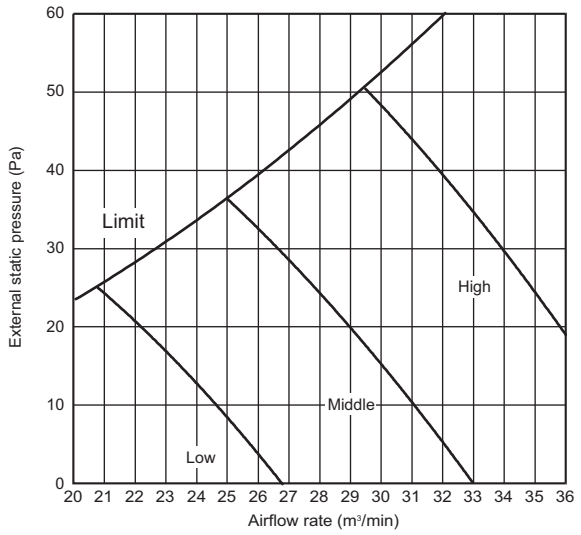


PEFY-P71, 80VMA-E-S
(External static pressure 150Pa) 220V 50Hz

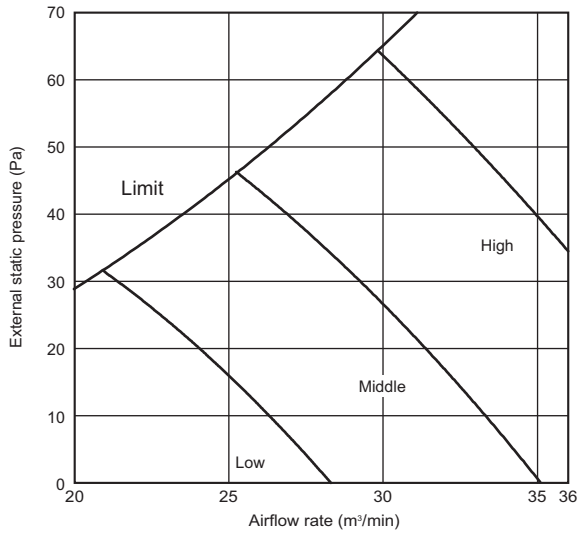


6. FAN CHARACTERISTICS CURVES

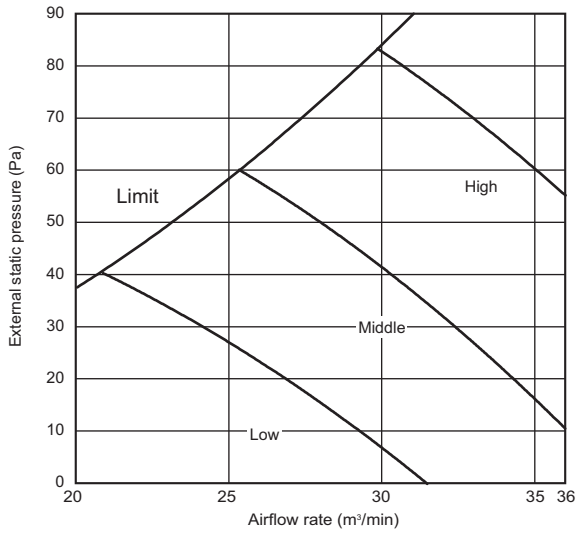
PEFY-P100VMA-E-S
(External static pressure 35Pa) 220V 50Hz



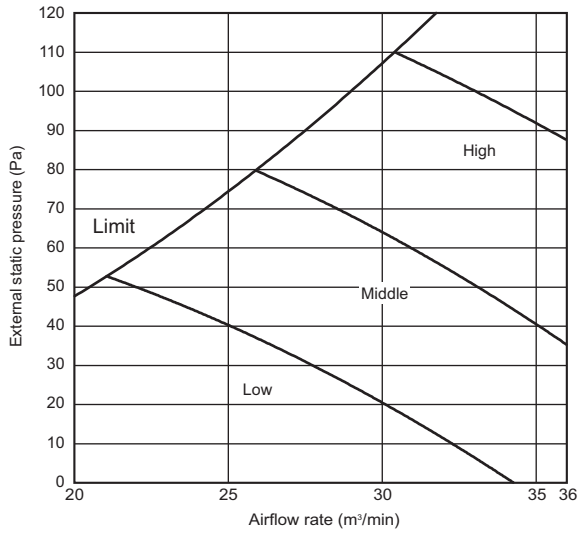
PEFY-P100VMA-E-S
(External static pressure 50Pa) 220V 50Hz



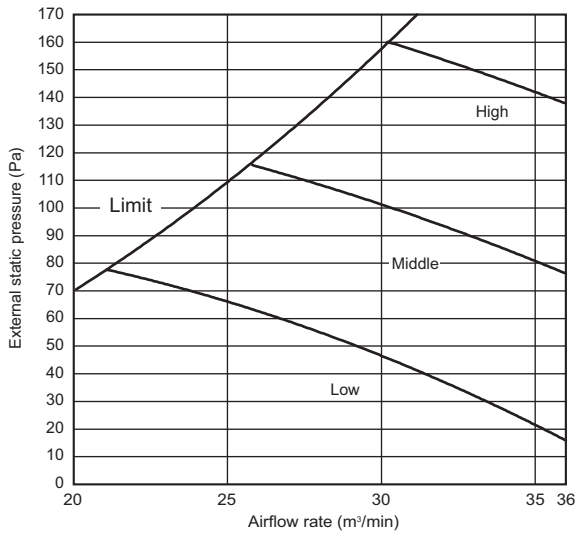
PEFY-P100VMA-E-S
(External static pressure 70Pa) 220V 50Hz



PEFY-P100VMA-E-S
(External static pressure 100Pa) 220V 50Hz

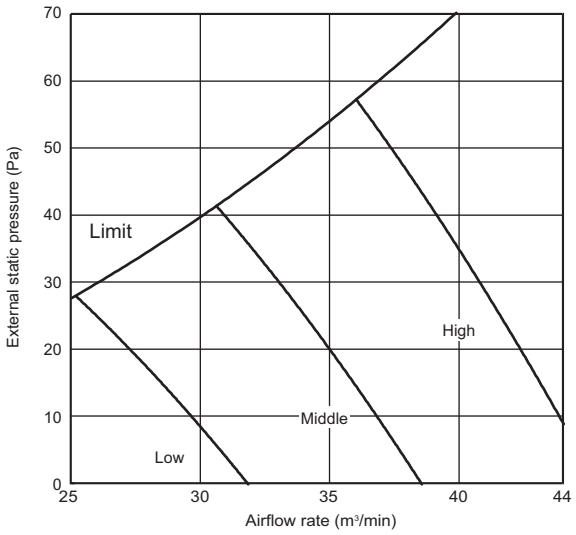


PEFY-P100VMA-E-S
(External static pressure 150Pa) 220V 50Hz

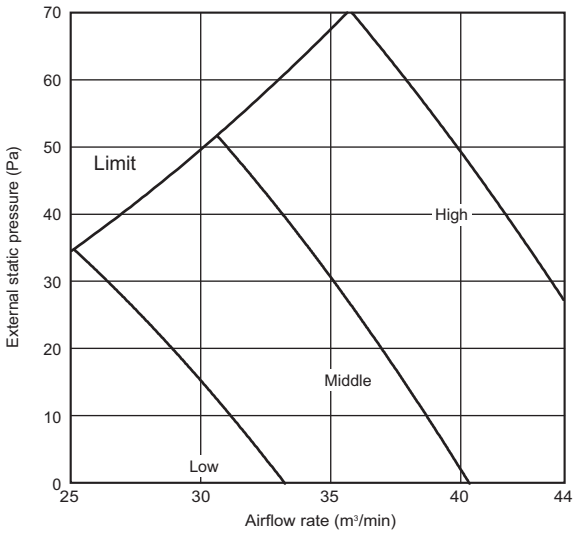


6. FAN CHARACTERISTICS CURVES

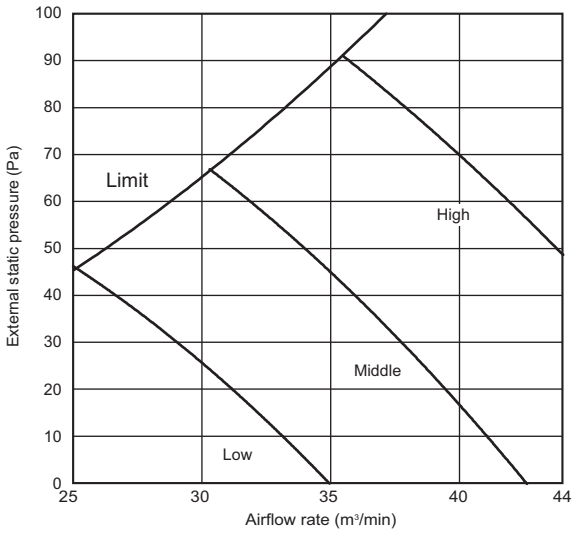
PEFY-P125VMA-E-S
(External static pressure 35Pa) 220V 50Hz



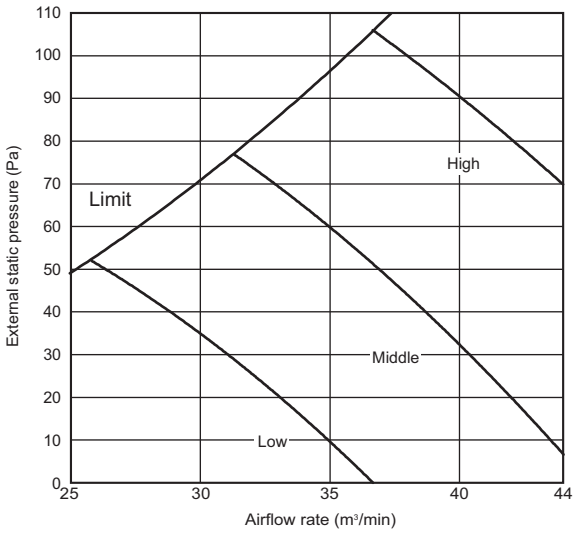
PEFY-P125VMA-E-S
(External static pressure 50Pa) 220V 50Hz



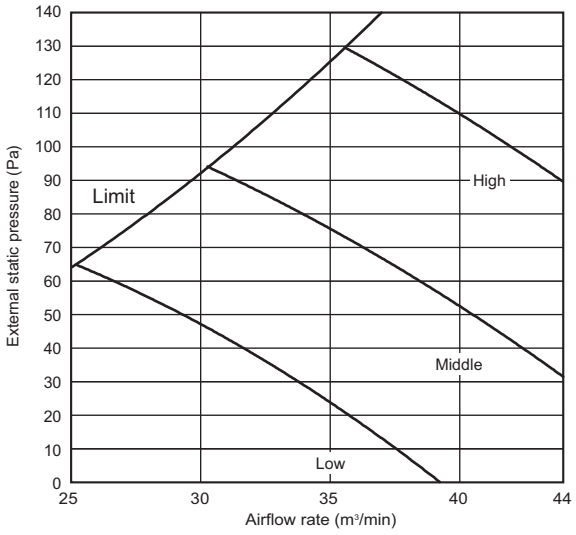
PEFY-P125VMA-E-S
(External static pressure 70Pa) 220V 50Hz



PEFY-P125VMA-E-S
(External static pressure 90Pa) 220V 50Hz

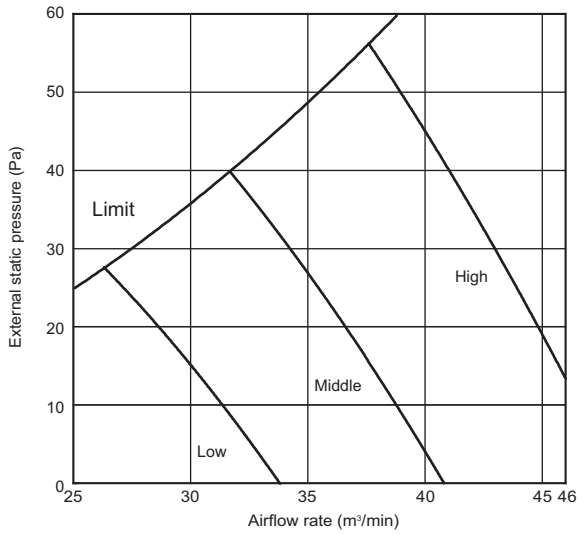


PEFY-P125VMA-E-S
(External static pressure 110Pa) 220V 50Hz

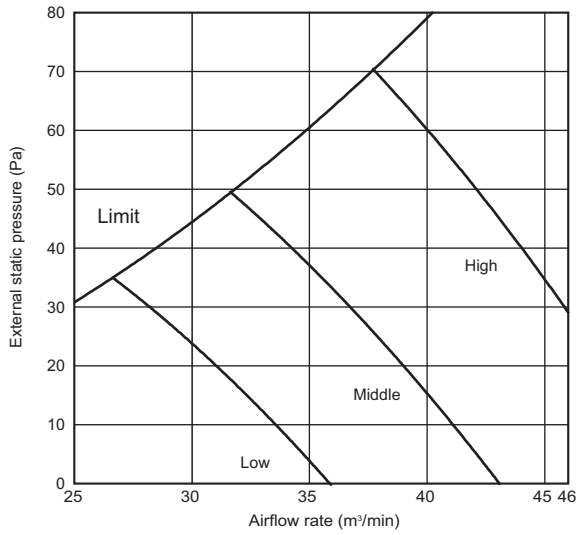


6. FAN CHARACTERISTICS CURVES

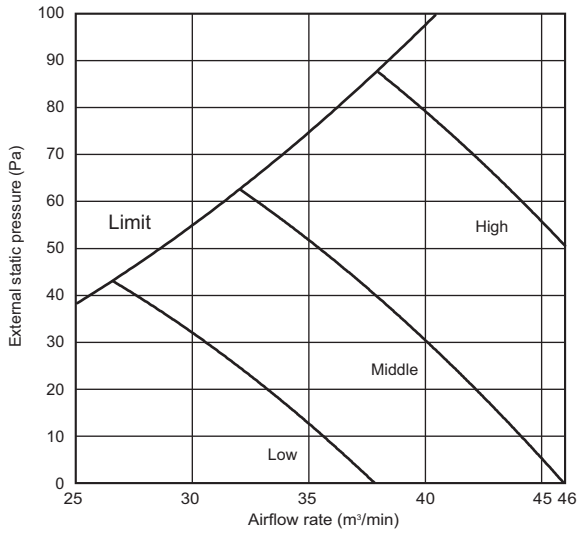
PEFY-P140VMA-E-S
(External static pressure 35Pa) 220V 50Hz



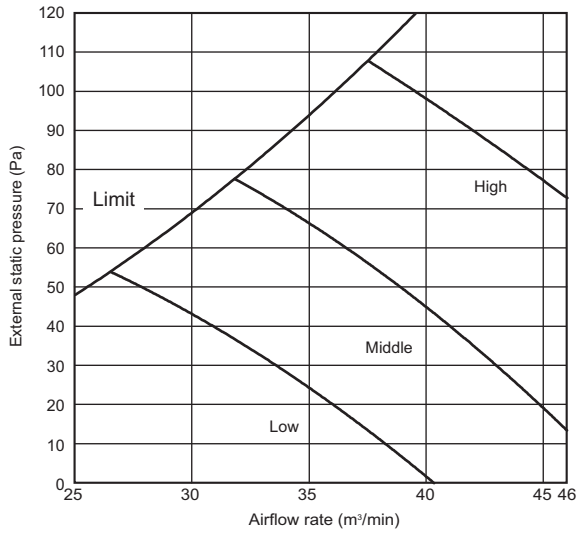
PEFY-P140VMA-E-S
(External static pressure 50Pa) 220V 50Hz



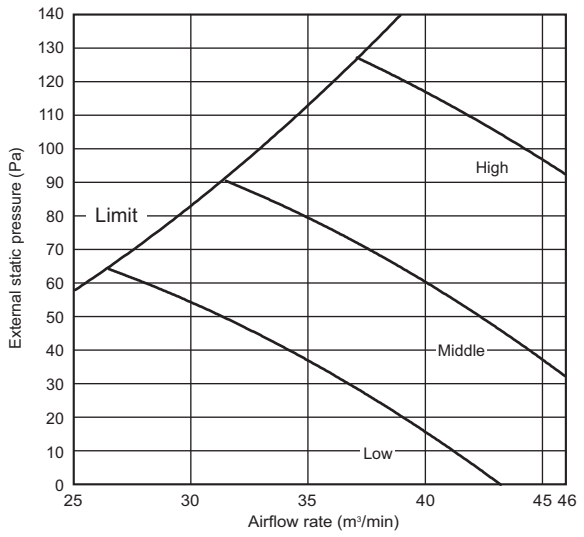
PEFY-P140VMA-E-S
(External static pressure 70Pa) 220V 50Hz



PEFY-P140VMA-E-S
(External static pressure 90Pa) 220V 50Hz



PEFY-P140VMA-E-S
(External static pressure 110Pa) 220V 50Hz



PMFY-P-VBM-EC

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1. SPECIFICATIONS

Model			PMFY-P20VBM-EC	PMFY-P25VBM-EC	PMFY-P32VBM-EC	PMFY-P40VBM-EC
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz			
Cooling capacity (Nominal)	*1	kW	2.2	2.8	3.6	4.5
	*1	kcal / h	1,900	2,400	3,100	3,900
	*1	BTU / h	7,500	9,600	12,300	15,400
	*2	kcal / h	2,000	2,500	3,150	4,000
*4	Power input	kW	0.042	0.044	0.044	0.054
*4	Current input	A	0.20	0.21	0.21	0.26
Heating capacity (Nominal)	*3	kW	2.5	3.2	4.0	5.0
	*3	kcal / h	2,200	2,800	3,400	4,300
	*3	BTU / h	8,500	10,900	13,600	17,100
*4	Power input	kW	0.042	0.044	0.044	0.054
*4	Current input	A	0.20	0.21	0.21	0.26
External finish			Galvanized, with grey insulation sheet			
External dimension H x W x D		mm	230 x 812 x 395			
		in.	9-1/16 x 32 x 15-9/16			
Net weight		kg (lbs)	14 (31)			
Decoration panel	Model		PMP-40BMW-EC	PMP-40BMW-EC	PMP-40BMW-EC	PMP-40BMW-EC
	External finish		MUNSELL (0.98Y 8.99/0.63)			
	Dimension	mm	30 x 1,000 x 470			
	H x W x D	in.	1-3/16 x 39-3/8 x 18-9/16			
	Net weight	kg (lbs)	3 (7)			
Heat exchanger			Cross fin (Aluminum fin and copper tube)			
FAN	Type x Quantity		Line flow fan x 1			
	External static press.	Pa	0			
		mmH_2O	0			
	Motor type		1-phase induction motor			
	Motor output	kW	0.028			
	Driving mechanism		Direct-driven by motor			
	Airflow rate (Low-Mid-High)	m^3 / min	6.5 - 7.2 - 8.0 - 8.7	7.3 - 8.0 - 8.6 - 9.3	7.3 - 8.0 - 8.6 - 9.3	7.7 - 8.7 - 9.7 - 10.7
		L / s	108 - 120 - 133 - 145	122 - 133 - 143 - 155	122 - 133 - 143 - 155	128 - 145 - 162 - 178
		cfm	230 - 254 - 283 - 307	258 - 283 - 304 - 328	258 - 283 - 304 - 328	272 - 307 - 343 - 378
Sound pressure level (Low-Mid-High) (measured in anechoic room)	*4	dB <A>	27 - 30 - 33 - 35	32 - 34 - 36 - 37	32 - 34 - 36 - 37	33 - 35 - 37 - 39
Insulation material			Polyester sheet			
Air filter			PP honeycomb fabric			
Protection device			Fuse			
Refrigerant control device			LEV			
Connectable outdoor unit			R410A CITY MULTI			
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare
Field drain pipe size		mm (in.)	O.D. 26 (1)			
Drawing	External		IU-BH01-C184			
	Wiring		IU-RG79-A671			
	Refrigerant cycle					
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory		Drain hose I.D. 26 (1) (flexible joint)			
Remark	Optional parts					
	Decoration panel		PMP-40BMW-EC	PMP-40BMW-EC	PMP-40BMW-EC	PMP-40BMW-EC
			*PMFY-P-VBM-EC should used together with PMP-40BMW-EC			
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

Note :

	*1 Nominal cooling conditions	*2 Nominal cooling conditions	*3 Nominal heating conditions
Indoor :	27°CDB/19°CWB (81°FDB/66°FWB)	27°CDB/19.5°CWB (81°FDB/67°FWB)	20°CDB (68°FDB)
Outdoor :	35°CDB (95°FDB)	35°CDB (95°FDB)	7°CDB/6°CWB (45°FDB/43°FWB)
Pipe length :	7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)
Level difference :	0 m (0 ft)	0 m (0 ft)	0 m (0 ft)

* Nominal conditions *1, *3 are subject to JIS B8615-1.
* Due to continuing improvement, above specification may be subject to change without notice.
*4 The values are measured at the factory setting of external static pressure.

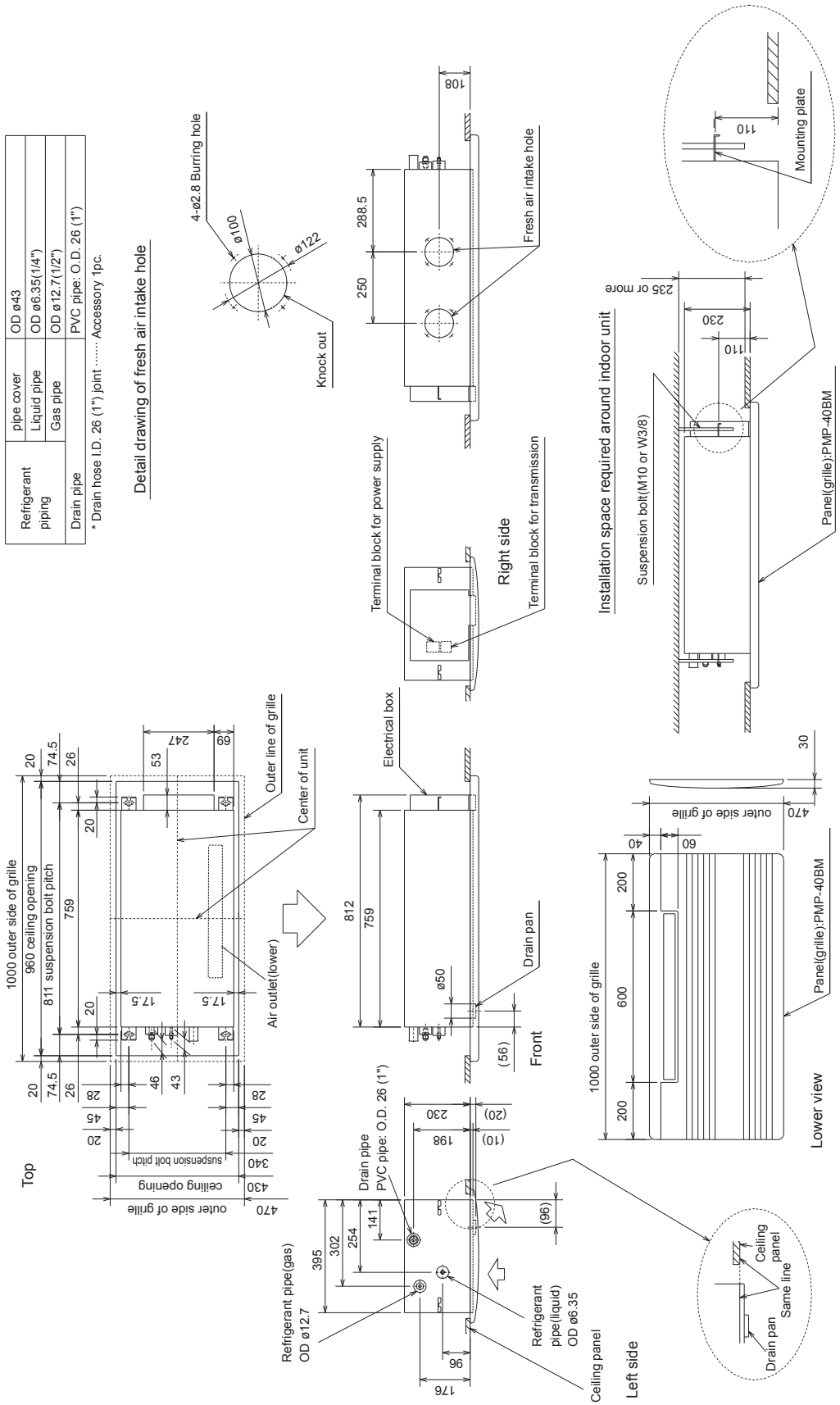
Unit converter

kcal/h = kW x 860
BTU/h = kW x 3,412
cfm = m^3/min x 35.31
lbs = kg / 0.4536

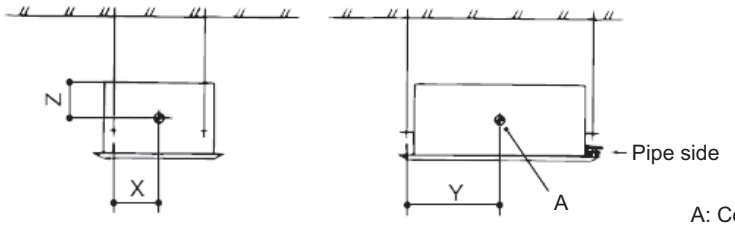
*Above specification data is subject to rounding variation.

PMFY-P20, 25, 32, 40VBM-EC

Unit : mm



PMFY-P20, 25, 32, 40VBM-EC

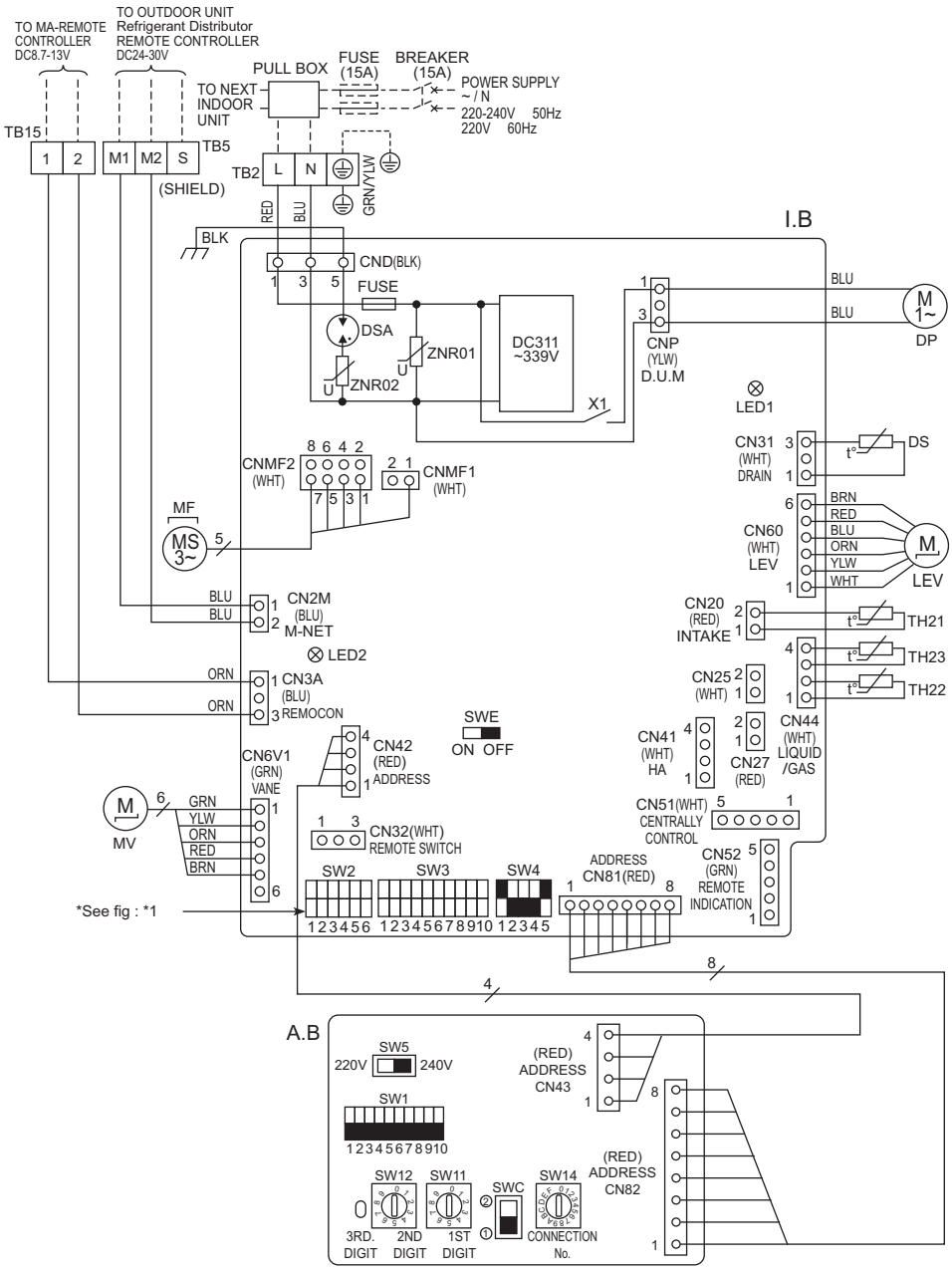


A: Center of gravity

(mm)[in]

Model name	X	Y	Z
PMFY-P20VBM-EC	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]
PMFY-P25VBM-EC	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]
PMFY-P32VBM-EC	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]
PMFY-P40VBM-EC	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]

PMFY-P20, 25, 32, 40VBM-EC



[LEGEND]

SYMBOL	NAME		SYMBOL	NAME	
I.B	INDOOR CONTROLLER BOARD		DS	DRAIN SENSOR	
CN25	CONNECTOR	HUMIDIFIER	TB2	TERMINAL BLOCK	POWER SUPPLY
CN27		DAMPER	TB5		TRANSMISSION
CN32		REMOTE SWITCH	TB15		MA-REMOTE CONTROLLER
CN51		CENTRALLY CONTROL	TH21	THERMISTOR	ROOM TEMP. DETECTION (0°C/15kΩ, 25°C/5.4kΩ)
CN52		REMOTE INDICATION			
SW2	SWITCH	CAPACITY CORD	TH22		PIPE TEMP. DETECTION / LIQUID (0°C/15kΩ, 25°C/5.4kΩ)
SW3		MODE SELECTION			
SW4		MODEL SELECTOR	TH23		PIPE TEMP. DETECTION / GAS (0°C/15kΩ, 25°C/5.4kΩ)
SWE		DRAIN UP MACHINE (TEST MODE)			
ZNR	VARISTOR		LEV	LINEAR EXPANSION VALVE	
FUSE	FUSE (T6.3AL 250V)		A.B	CIRCUIT BOARD	
X1	AUX.RELAY	DRAIN PUMP	SW1	SWITCH	MODE SELECTION
LED1	POWER SUPPLY (I.B)		SW5		VOLTAGE SELECTION
LED2	POWER SUPPLY (I.B)		SW11		ADDRESS SETTING 1ST DIGIT
MF	FAN MOTOR		SW12		ADDRESS SETTING 2ND DIGIT
MV	VANE MOTOR		SW14		CONNECTION No.
DP	DRAIN-UP MACHINE				

LED on indoor board for service

Mark	Meaning	Function
LED1	Main power supply	Main power supply (Indoor unit:220-240V) Power on → lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

<*1>

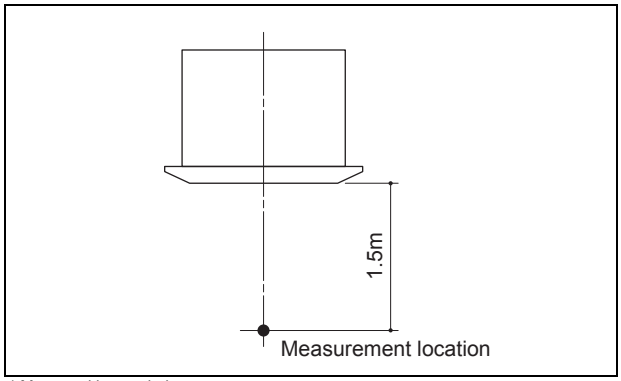
MODELS	SW2	SW3
P20VBM	ON OFF 123456	ON OFF 12345678910
P25VBM	ON OFF 123456	ON OFF 12345678910
P32VBM	ON OFF 123456	ON OFF 12345678910
P40VBM	ON OFF 123456	ON OFF 12345678910

NOTES:
1. At servicing for outdoor unit,always follow the wiring diagram of outdoor unit.
2. In case of using MA-Remote controller, please connect to TB15. (Remote controller wire is non-polar.)
3. In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
4. Symbol [S] of TB5 is the shield wire connection.
5. Symbols used in wiring diagram above are, □□□:terminal block, ○○○:connecter.
6. The setting of the SW2 dip switches differs in the capacity. For the detail, refer to the table above.
7. Please set the switch SW5 according to the power supply voltage. Set SW5 to 240V side when the power supply is 230 and 240 volts. When the power supply is 220 volts, set SW5 to 220V side.

5. SOUND LEVELS

5-1. Sound levels

PMFY-P-VBM-EC



* Measured in anechoic room

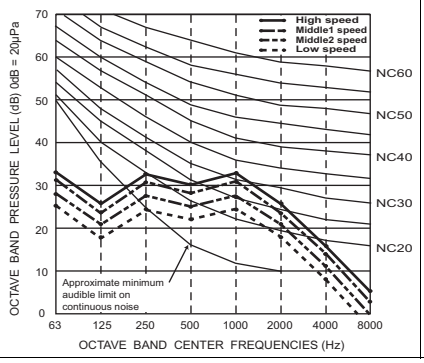
Sound level at anechoic room : Low-Middle2-Middle1-High

	Sound level dB (A)
PMFY-P20VBM-EC	27-30-33-35
PMFY-P25VBM-EC PMFY-P32VBM-EC	32-34-36-37
PMFY-P40VBM-EC	33-35-37-39

5-2. NC curves

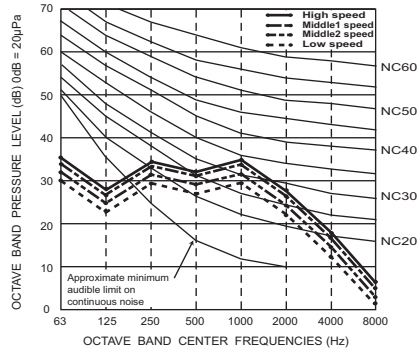
PMFY-P20VBM-EC

External static pressure : 0Pa
Power source : 220,230,240V, 50Hz / 220V, 60Hz



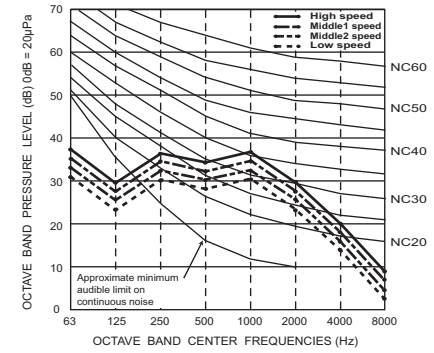
PMFY-P25,32VBM-EC

External static pressure : 0Pa
Power source : 220,230,240V, 50Hz / 220V, 60Hz



PMFY-P40VBM-EC

External static pressure : 0Pa
Power source : 220,230,240V, 50Hz / 220V, 60Hz

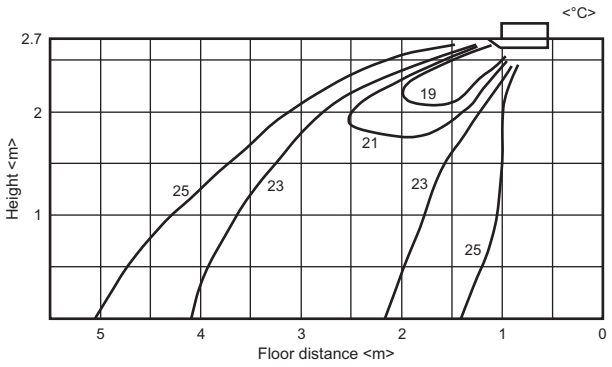


6. TEMPERATURE/AIRFLOW DISTRIBUTIONS

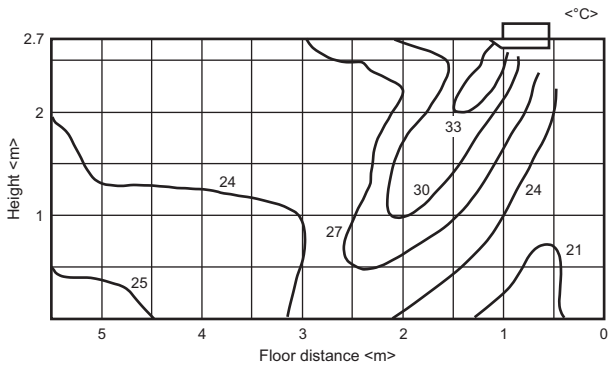
6-1. Temperature distributions

PMFY-P20-40VBM-EC

<Cooling mode>
Flow angle 30°



<Heating mode>
Flow angle 70°

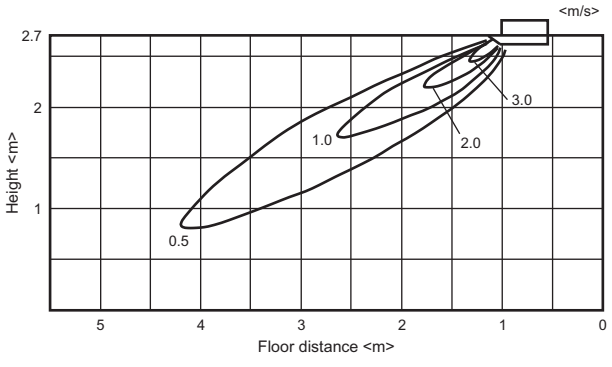


Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

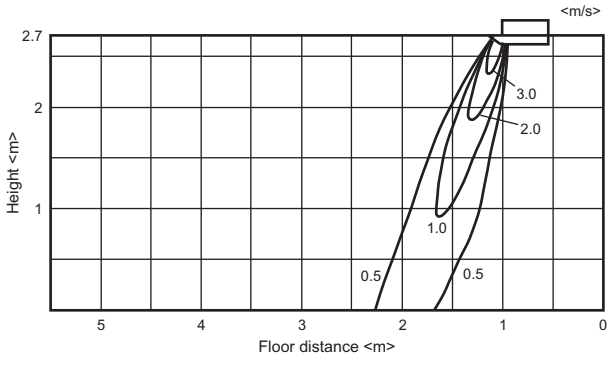
6-2. Airflow distributions

PMFY-P20-40VBM-EC

<Fan mode>
Flow angle 30°



<Fan mode>
Flow angle 70°



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

PLFY-P-VBM-E-S

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1. SPECIFICATIONS

Model			PLFY-P32VBM-E-S	PLFY-P40VBM-E-S	PLFY-P50VBM-E-S	PLFY-P63VBM-E-S
Power source			1-phase 220V 50Hz			
Cooling capacity (Nominal)	*1	kW	3.6	4.5	5.6	7.1
	*1	kcal / h	3,100	3,900	4,800	6,100
	*1	BTU / h	12,300	15,400	19,100	24,200
	*2	kcal / h	3,150	4,000	5,000	6,300
*4	Power input	kW	0.03	0.04	0.04	0.05
*4	Current input	A	0.22	0.29	0.29	0.36
Heating capacity (Nominal)	*3	kW	4.0	5.0	6.3	8.0
	*3	kcal / h	3,400	4,300	5,400	6,900
	*3	BTU / h	13,600	17,100	21,500	27,300
*4	Power input	kW	0.02	0.03	0.03	0.04
*4	Current input	A	0.14	0.22	0.22	0.29
External finish			Galvanized steel sheet			
External dimension H x W x D		mm	258 x 840 x 840			
		in.	10-3/16 x 33-1/8 x 33-1/8			
Net weight		kg (lbs)	22 (49)	22 (49)	22 (49)	23 (51)
Decoration panel	Model		**PLP-6BA-S**	**PLP-6BA-S**	**PLP-6BA-S**	**PLP-6BA-S**
	External finish		MUNSELL (6.4Y 8.9/0.4)			
	Dimension	mm	35 x 950 x 950			
	H x W x D	in.	1-3/8 x 37-7/16 x 37-7/16			
	Net weight	kg (lbs)	6 (13)			
Heat exchanger			Cross fin (Aluminum fin and copper tube)			
FAN	Type x Quantity		Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1
	External	Pa	0	0	0	0
	static press.	mmH_2O	0	0	0	0
	Motor type		DC motor			
	Motor output	kW	0.050	0.050	0.050	0.050
	Driving mechanism		Direct-drive			
	Airflow rate		(Low-Mid2-Mid1-High)			
		m^3 / min	15 - 16 - 17 - 18	15 - 16 - 17 - 19	15 - 16 -17 -19	15 - 16 - 17 - 19
	Rotation Per Minute		(Low-Mid2-Mid1-High)			
	Cooling	rpm	338 - 356 - 375 - 393	338 - 361 - 383 - 406	338 - 361 - 383 - 406	362 - 387 - 411 - 436
	Heating		330 - 346 - 361 - 377	330 - 351 - 371 - 392	330 - 351 - 371 - 392	348 - 371 - 395 - 418
Sound pressure level (Low-Mid2-Mid1-High) (measured in anechoic room) *4		dB <A>	29 - 31 - 32 - 34	29 - 31 - 33 - 34	29 - 31 - 33 - 34	29 - 31 - 33 - 35
Insulation material			PS			
Air filter			PP honeycomb			
Protection device			Fuse			
Refrigerant control device			LEV			
Connectable outdoor unit			R410A CITY MULTI			
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	Ø6.35 (Ø1/4) Flare	Ø6.35 (Ø1/4) Flare	Ø6.35 (Ø1/4) Flare	Ø9.52 (Ø3/8) Flare
	Gas (R410A)	mm (in.)	Ø12.7 (Ø1/2) Flare	Ø12.7 (Ø1/2) Flare	Ø12.7 (Ø1/2) Flare	Ø15.88 (Ø5/8) Flare
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4)			
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory					
Remark	Optional parts					
	Decoration panel **1		PLP-6BA-S	PLP-6BA-S	PLP-6BA-S	PLP-6BA-S
	Air outlet shutter plate		PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E
	High efficiency filter element **2		PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E
	Multi-function casement		PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E
			**1.PLFY-P-VBM-E-S should use together with PLP-6BA-S. **2.PAC-SH53TM-E is necessary to use with filter PAC-SH59KF-E.			
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

Note :

*1 Nominal cooling conditions

Indoor :	27°CDB/19°CWB (81°FDB/66°FWB)
Outdoor :	35°CDB (95°FDB)
Pipe length :	7.5 m (24-9/16 ft)
Level difference :	0 m (0 ft)

*2 Nominal cooling conditions

Indoor :	27°CDB/19.5°CWB (81°FDB/67°FWB)
Outdoor :	35°CDB (95°FDB)
Pipe length :	5 m (16-3/8 ft)
Level difference :	0 m (0 ft)

*3 Nominal heating conditions

Indoor :	20°CDB (68°FDB)
Outdoor :	7°CDB/6°CWB (45°FDB/43°FWB)
Pipe length :	7.5 m (24-9/16 ft)
Level difference :	0 m (0 ft)

* Nominal conditions *1, *3 are subject to JIS B8615-1.
* Due to continuing improvement, above specification may be subject to change without notice.

*4 The values are measured at the rated external static pressure.

Unit converter

kcal/h = kW x 860
BTU/h = kW x 3,412
cfm = m^3/min x 35.31
lbs = kg / 0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model			PLFY-P80VBM-E-S	PLFY-P100VBM-E-S	PLFY-P125VBM-E-S	
Power source			1-phase 220V 50Hz			
Cooling capacity (Nominal)	*1	kW	9.0	11.2	14.0	
	*1	kcal / h	7,700	9,600	12,000	
	*1	BTU / h	30,700	38,200	47,800	
	*2	kcal / h	8,000	10,000	12,500	
*4	Power input	kW	0.07	0.15	0.16	
*4	Current input	A	0.51	1.00	1.07	
Heating capacity (Nominal)	*3	kW	10.0	12.5	16.0	
	*3	kcal / h	8,600	10,800	13,800	
	*3	BTU / h	34,100	42,700	54,600	
*4	Power input	kW	0.06	0.14	0.15	
*4	Current input	A	0.43	0.94	1.00	
External finish			Galvanized steel sheet			
External dimension H x W x D		mm	258 x 840 x 840	298 x 840 x 840		
		in.	10-3/16 x 33-1/8 x 33-1/8	11-3/4 x 33-1/8 x 33-1/8		
Net weight		kg (lbs)	23(51)	27(60)	27(60)	
Decoration panel	Model		**PLP-6BA-S**	**PLP-6BA-S**	**PLP-6BA-S**	
	External finish		MUNSELL (6.4Y 8.9/0.4)			
	Dimension	mm	35 x 950 x 950			
	H x W x D	in.	1-3/8 x 37-7/16 x 37-7/16			
	Net weight	kg (lbs)	6(13)			
Heat exchanger			Cross fin (Aluminum fin and copper tube)			
FAN	Type x Quantity		Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	
	External static press.	Pa	0	0	0	
		mmH_2O	0	0	0	
	Motor type		DC motor			
	Motor output	kW	0.050	0.120	0.120	
	Driving mechanism		Direct-drive			
	Airflow rate		(Low-Mid2-Mid1-High)			
		m^3 / min	16 - 18 - 20 - 22	21 - 23 - 25 - 28	21 - 23 - 26 - 29	
	Rotation Per Minute		(Low-Mid2-Mid1-High)			
	Cooling	rpm	390 - 429 - 467 - 506	452 - 500 - 541 - 585	468 - 529 - 570 - 621	
	Heating		374 - 411 - 447 - 484	443 - 490 - 538 - 585	449 - 500 - 557 - 611	
Sound prseeure level (Low-Mid2-Mid1-High) (measured in anechoic room) *4		dB <A>	32 - 34 - 37 - 39	36 - 39 - 42- 44	37 - 41 - 44 - 46	
Insulation material			PS			
Air filter			PP honeycomb			
Protection device			Fuse			
Refrigerant control device			LEV			
Connectable outdoor unit			R410A CITY MULTI			
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	Ø9.52 (Ø3/8) Flare	Ø9.52 (Ø3/8) Flare	Ø9.52 (Ø3/8) Flare	
	Gas (R410A)	mm (in.)	Ø15.88 (Ø5/8) Flare	Ø15.88 (Ø5/8) Flare	Ø15.88 (Ø5/8) Flare	
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4)			
Standard attachment	Document Accessory		Installation Manual, Instruction Book			
Remark	Optional parts					
	Decoration panel **1		PLP-6BA-S	PLP-6BA-S	PLP-6BA-S	
	Air outlet shutter plate		PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E	
	High efficiency filter element **2		PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E	
	Multi-function casement		PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E	
			**1.PLFY-P-VBM-E-S should use together with PLP-6BA-S. **2.PAC-SH53TM-E is necessary to use with filter PAC-SH59KF-E.			
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

Note :

*1 Nominal cooling conditions
Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)
Outdoor : 35°CDB (95°FDB)
Pipe length : 7.5 m (24-9/16 ft)
Level difference : 0 m (0 ft)

*2 Nominal cooling conditions
27°CDB/19.5°CWB (81°FDB/67°FWB)
35°CDB (95°FDB)
5 m (16-3/8 ft)
0 m (0 ft)

*3 Nominal heating conditions
20°CDB (68°FDB)
7°CDB/6°CWB (45°FDB/43°FWB)
7.5 m (24-9/16 ft)
0 m (0 ft)

* Nominal conditions *1, *3 are subject to JIS B8615-1.
* Due to continuing improvement, above specification may be subject to change without notice.

*4 The values are measured at the rated external static pressure.

Unit converter
kcal/h = kW x 860
BTU/h = kW x 3,412
cfm = m^3/min x 35.31
lbs = kg / 0.4536

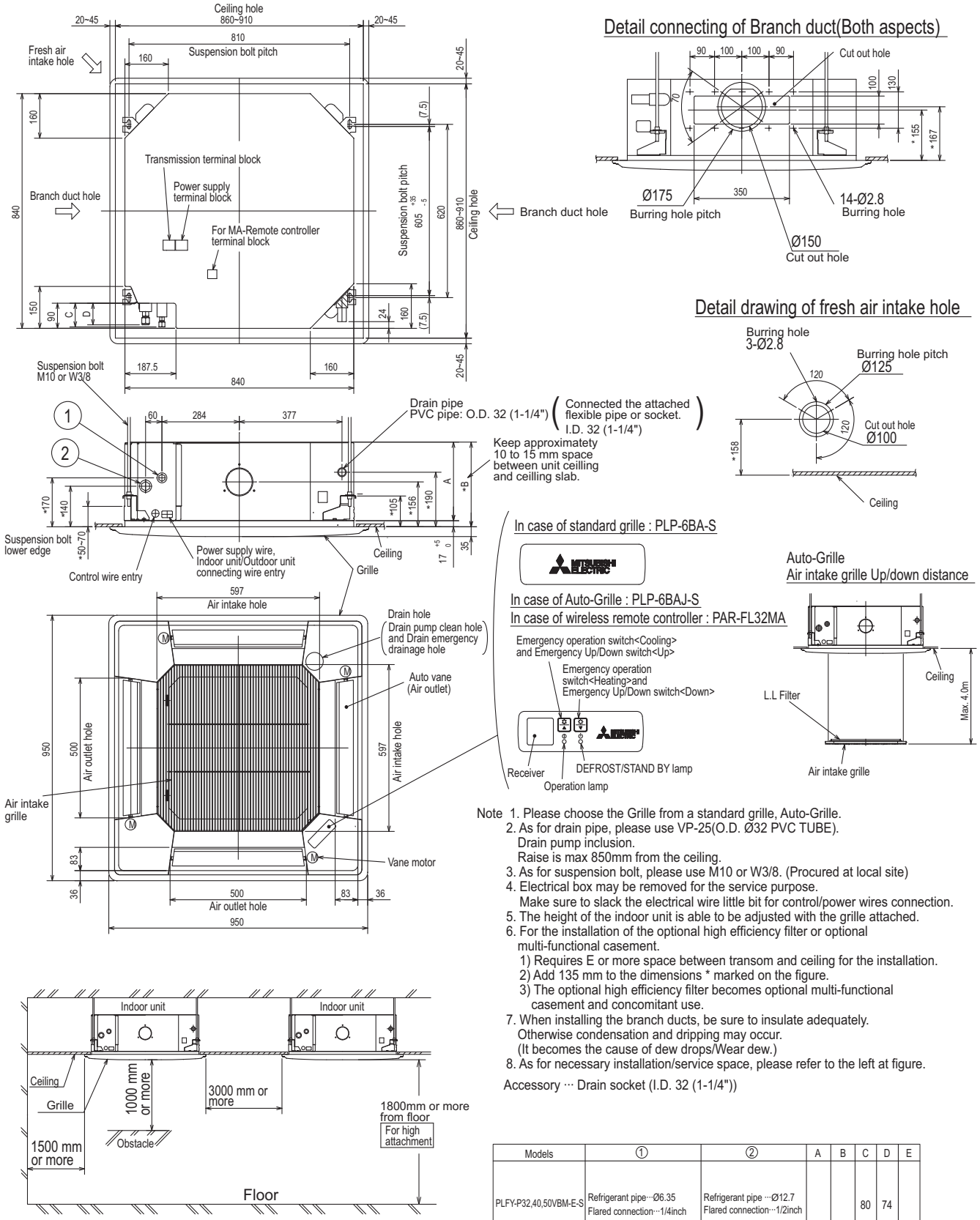
*Above specification data is subject to rounding variation.

PLFY-VBM

2. EXTERNAL DIMENSIONS

PLFY-P32, 40, 50, 63, 80, 100, 125VBM-E-S

unit : mm

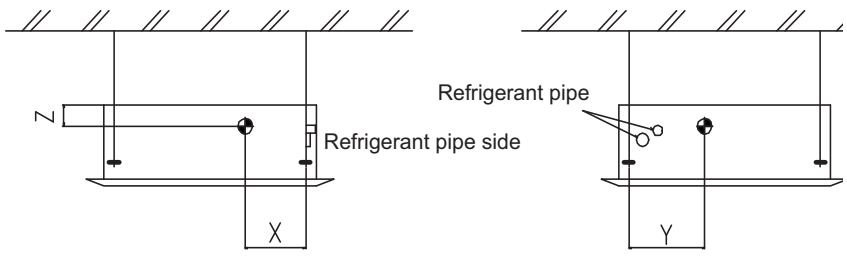


Note 1. Please choose the Grille from a standard grille, Auto-Grille.
2. As for drain pipe, please use VP-25(O.D. Ø32 PVC TUBE).
Drain pump inclusion.
Raise is max 850mm from the ceiling.
3. As for suspension bolt, please use M10 or W3/8. (Procured at local site)
4. Electrical box may be removed for the service purpose.
Make sure to slack the electrical wire little bit for control/power wires connection.
5. The height of the indoor unit is able to be adjusted with the grille attached.
6. For the installation of the optional high efficiency filter or optional multi-functional casement.
1) Requires E or more space between transom and ceiling for the installation.
2) Add 135 mm to the dimensions * marked on the figure.
3) The optional high efficiency filter becomes optional multi-functional casement and concomitant use.
7. When installing the branch ducts, be sure to insulate adequately.
Otherwise condensation and dripping may occur.
(It becomes the cause of dew drops/Wear dew.)
8. As for necessary installation/service space, please refer to the left at figure.

Accessory ··· Drain socket (I.D. 32 (1-1/4"))

Models	①	②	A	B	C	D	E
PLFY-P32,40,50VBM-E-S	Refrigerant pipe···Ø6.35 Flared connection···1/4inch	Refrigerant pipe ···Ø12.7 Flared connection···1/2inch	241	258	80	74	400
PLFY-P63,80VBM-E-S	Refrigerant pipe···Ø9.52 Flared connection···3/8inch	Refrigerant pipe···Ø15.88 Flared connection···5/8inch			85	77	
PLFY-P100,125VBM-E-S			281	298			440

PLFY-P32, 40, 50, 63, 80, 100, 125VBM-E-S



(mm)[in]

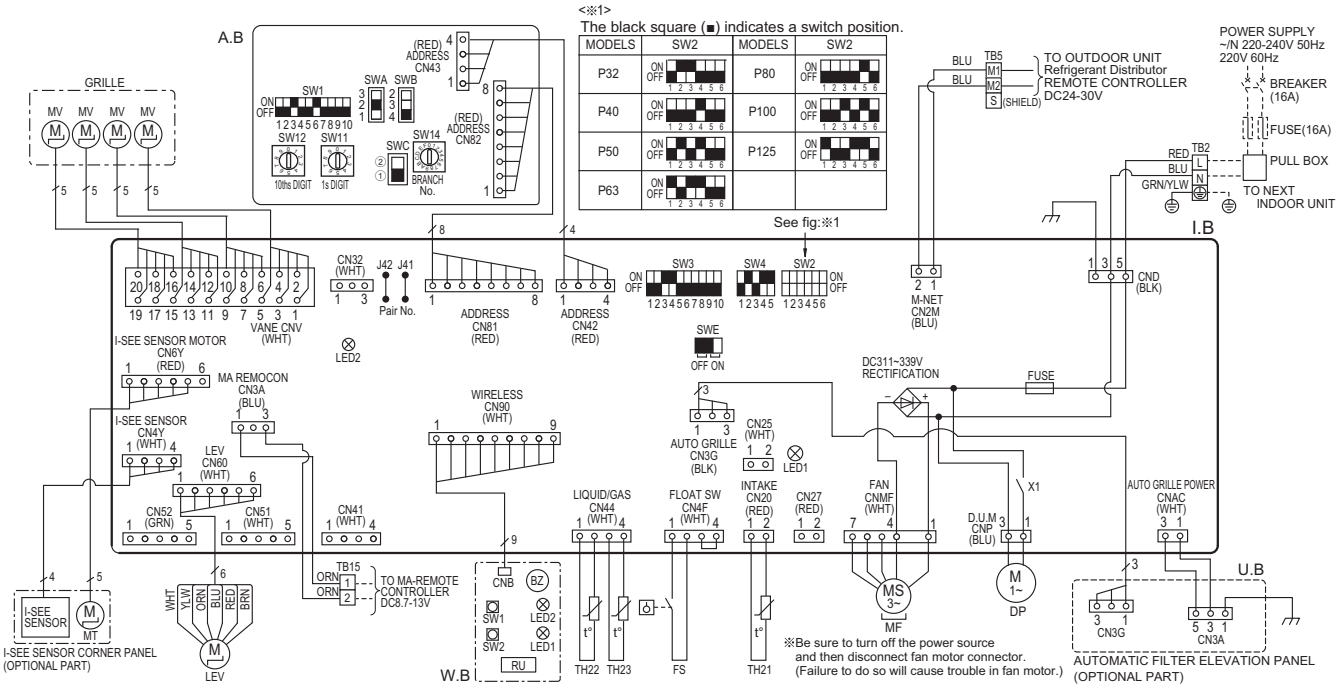
Model name	X	Y	Z
PLFY-P32VBM-E-S	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P40VBM-E-S	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P50VBM-E-S	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P63VBM-E-S	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P80VBM-E-S	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P100VBM-E-S	280 [11-1/32]	400 [15-3/4]	125 [4-15/16]
PLFY-P125VBM-E-S	280 [11-1/32]	400 [15-3/4]	125 [4-15/16]

PLFY-VBM

PLFY-P32, 40, 50, 63, 80, 100, 125VBM-E-S

[LEGEND]

SYMBOL		NAME		SYMBOL	NAME		SYMBOL	NAME	
I. B		INDOOR CONTROLLER BOARD		DP	DRAIN PUMP		A. B	ADDRESS BOARD	
	CN27	CONNECTOR	DAMPER	FS	DRAIN FLOAT SWITCH			SWA	SWITCH	CEILING HEIGHT SELECTOR
	CN32		REMOTE SWITCH	LEV	LINEAR EXPANSION VALVE			SWB		DISCHARGE OUTLET NUMBER SELECTOR
	CN51		CENTRALLY CONTROL	MF	FAN MOTOR			SWC		OPTION SELECTOR
	CN52		REMOTE INDICATION	MV	VANE MOTOR			SW1		MODE SELECTION
	FUSE	FUSE (T6.3AL250V)		TB2	TERMINAL BLOCK	POWER SUPPLY		SW11		ADDRESS SETTING 1s DIGIT
	LED1	POWER SUPPLY (I. B)		TB5		TRANSMISSION		SW12		ADDRESS SETTING 10ths DIGIT
	LED2	POWER SUPPLY (I. B)		TB15		MA-REMOTE CONTROLLER		SW14		BRANCH NO.
	SW2	SWITCH	CAPACITY CODE	TH21	THERMISTOR	ROOM TEMP. DETECTION (0°C / 15kΩ, 25°C / 5.4kΩ)	OPTION PART			
	SW3		MODE SELECTION	TH22		PIPE TEMP. DETECTION / LIQUID (0°C / 15kΩ, 25°C / 5.4kΩ)		W.B		PCB FOR WIRELESS REMOTE CONTROLLER
	SW4		MODEL SELECTION	TH23		PIPE TEMP. DETECTION / GAS (0°C / 15kΩ, 25°C / 5.4kΩ)			BZ	BUZZER
	SWE		DRAIN PUMP (TEST MODE)						LED1	LED (OPERATION INDICATION : GREEN)
	X1	AUX. RELAY	DRAIN PUMP						LED2	LED (PREPARATION FOR HEATING : ORANGE)
									RU	RECEVING UNIT
									SW1	EMERGENCY OPERATION (HEAT / DOWN)
									SW2	EMERGENCY OPERATION (COOL / UP)



NOTES:

1. When servicing the outdoor unit, always follow the wiring diagram of outdoor unit.
2. In case of using MA-Remote controller, please connect to TB15.
   (Remote controller wire is non-polar.)
3. In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
4. Symbol [S] of TB5 indicates shield wire connection.
5. Symbols used in wiring diagram above are, ☐☐☐ : terminal block, ○○○ : connecter.
6. The settings of the SW2 dip switches differ in capacity. For details, refer to fig<※1>.

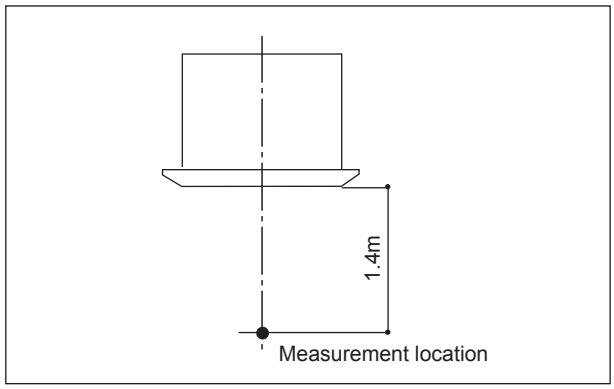
LED on indoor board for service

Mark	Meaning	Function
LED1	Main power supply	Main Power supply (Indoor unit:220-240V) power on ⟶ Lamp is lit.
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on ⟶ Lamp is lit.

5. SOUND LEVELS

5-1. Sound levels

PLFY-P-VBM-E-S



* Measured in anechoic room.

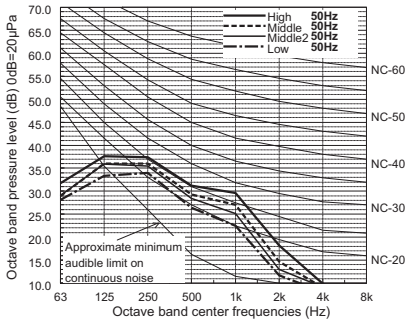
Sound level at anechoic room : Low-Mid2-Mid1-High

	Sound level dB (A)
PLFY-P32VBM-E-S	29-31-32-34
PLFY-P40VBM-E-S PLFY-P50VBM-E-S	29-31-33-34
PLFY-P63VBM-E-S	29-31-33-35
PLFY-P80VBM-E-S	32-34-37-39
PLFY-P100VBM-E-S	36-39-42-44
PLFY-P125VBM-E-S	37-41-44-46

5-2. NC curves

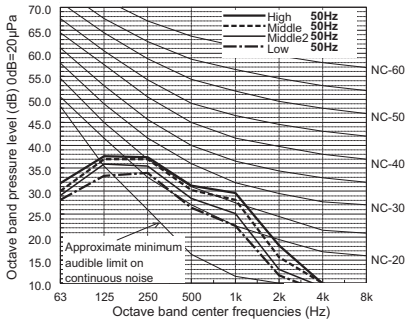
PLFY-P32VBM-E-S

External Static Pressure:
Power Source: 220V/50Hz



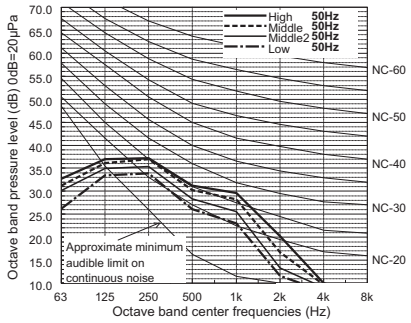
PLFY-P40VBM-E-S

External Static Pressure:
Power Source: 220V/50Hz



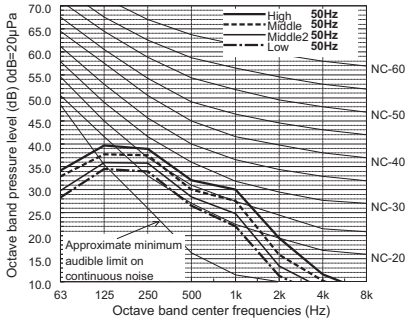
PLFY-P50VBM-E-S

External Static Pressure:
Power Source: 220V/50Hz



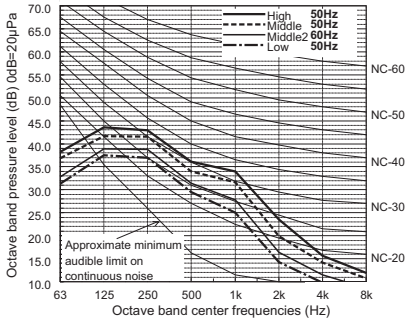
PLFY-P63VBM-E-S

External Static Pressure:
Power Source: 220V/50Hz



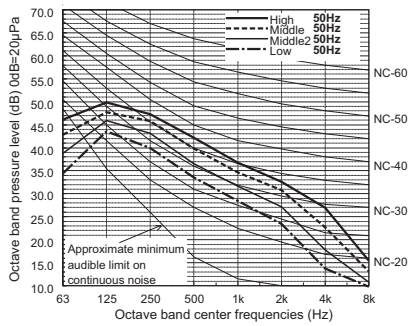
PLFY-P80VBM-E-S

External Static Pressure:
Power Source: 220V/50Hz



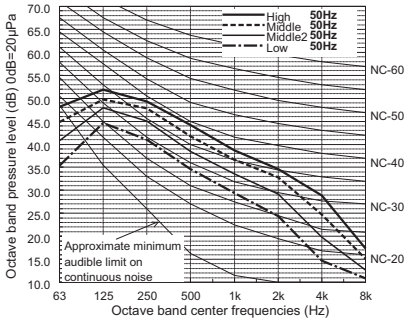
PLFY-P100VBM-E-S

External Static Pressure:
Power Source: 220V/50Hz



PLFY-P125VBM-E-S

External Static Pressure:
Power Source: 220V/50Hz

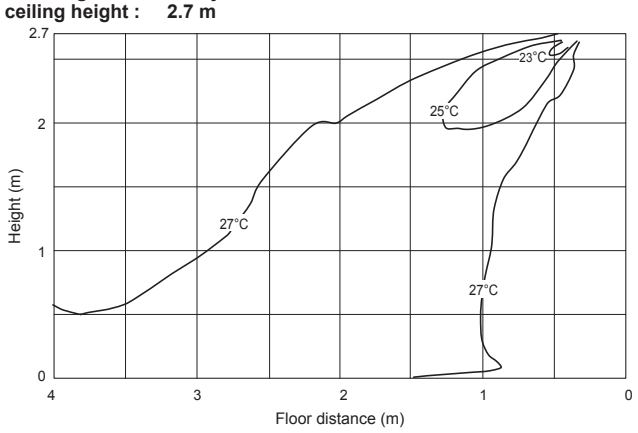


6. TEMPERATURE/AIRFLOW DISTRIBUTIONS

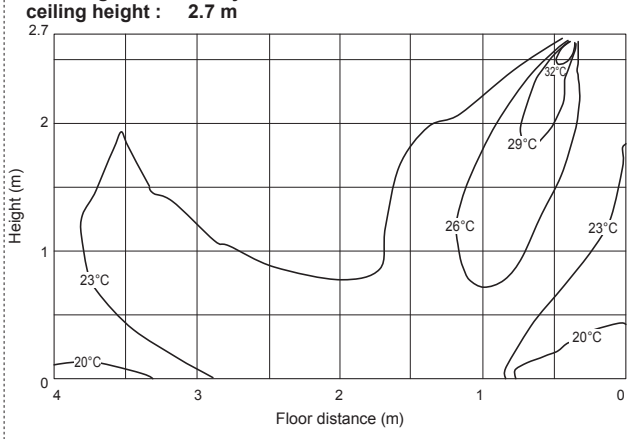
6-1. Temperature distributions

PLFY-P-VBM-E-S

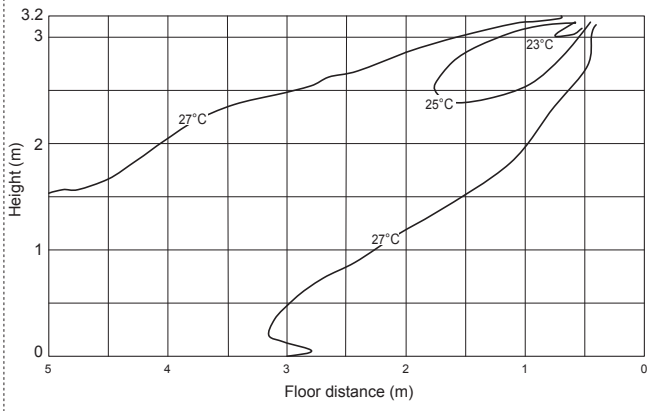
• PLFY-P32-80VBM-E-S
<Cooling mode> Standard
Flow angle : 30° 4-way flow
ceiling height : 2.7 m



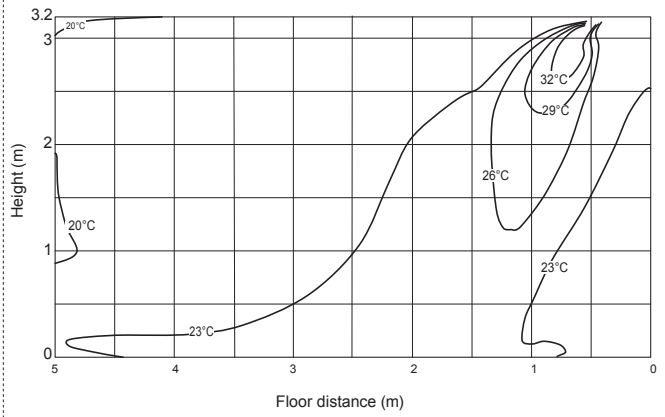
<Heating mode> Standard
Flow angle : 60° 4-way flow
ceiling height : 2.7 m



• PLFY-P100, 125VBM-E-S
<Cooling mode> Standard
Flow angle : 30° 4-way flow
ceiling height : 3.2 m



<Heating mode> Standard
Flow angle : 60° 4-way flow
ceiling height : 3.2 m

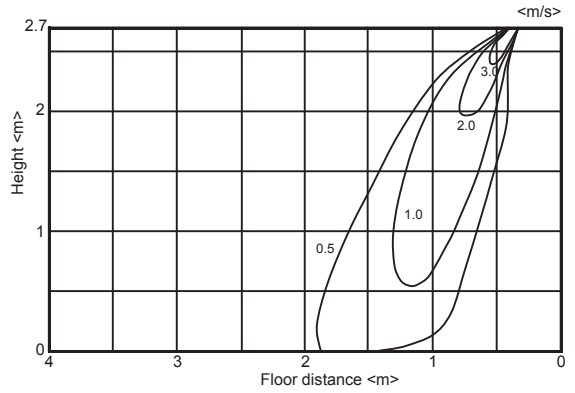


Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

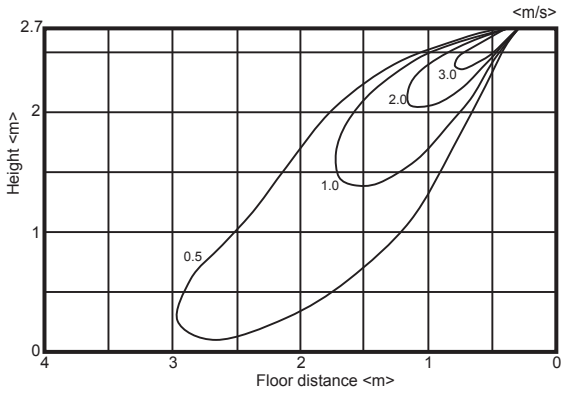
6-2. Airflow distributions

PLFY-P32-80VBM-E-S

<Heating mode>
Flow angle 60°

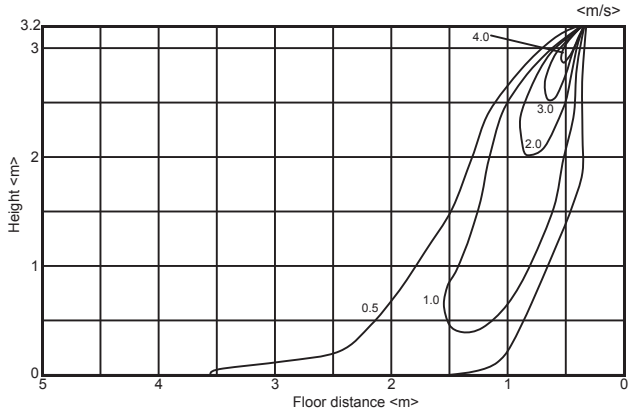


<Cooling mode>
Flow angle 30°

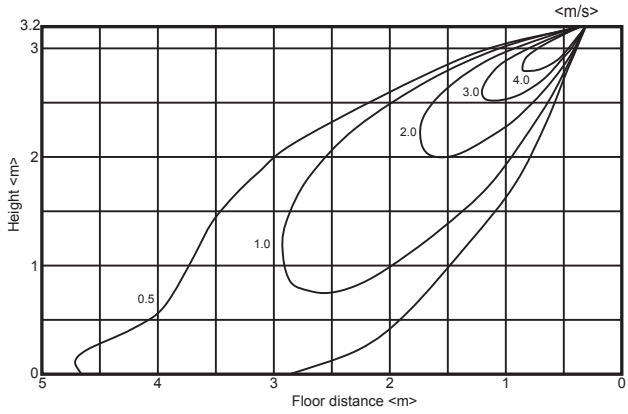


PLFY-P100, 125VBM-E-S

<Heating mode>
Flow angle 60°



<Cooling mode>
Flow angle 30°

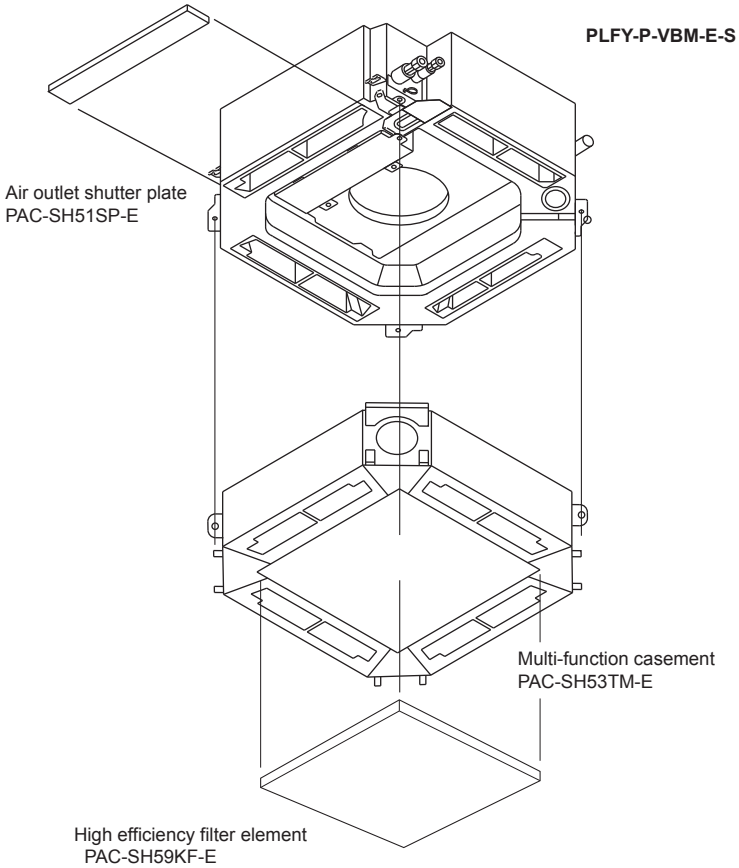


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

7-1. Optional parts line up for the Indoor unit

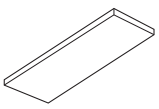
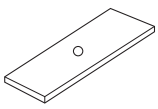
	Description	Model
PLFY-P-VBM-E-S	Air outlet shutter plate	PAC-SH51SP-E
	Multi-function casement	PAC-SH53TM-E
	High efficiency filter element	PAC-SH59KF-E
	Move-eye Sensor corner panel	S-MAC-122ME
	Automatic filter elevation panel	PLP-6BAJ-S
	Wireless signal receiver	S-MAC-121FA
	Space panel	PAC-SH48AS-E
	Duct flange for fresh air intake	PAC-SH65OF-E

●PLFY-P-VBM-E-S



7-2. Air outlet shutter plate

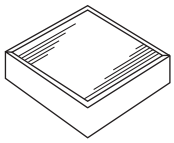
Using the air outlet shutter plate to block the air outlet to modify the air-way from 4 to 3 or 2.
With 1 PAC-SH51SP-E, 4 air-ways can be changed to 3;
With 2 PAC-SH51SP-E, 4 air-ways can be changed to 2;
Changing to 1 way is not allowed.
Material: Foamed polyethylene + foamed urethane, color: Black

Item	① Shutter plate	② Insulator	
Quantity	2	1	
Shape			

Detailed installation information should be referred to its Installation Manual (BH79G726H01).

7-3. High efficiency filter element

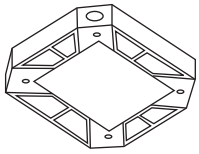
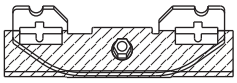
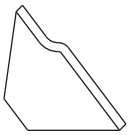
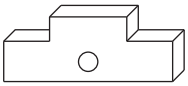
Life span: 2,500 hr (Dust concentration 0.15mg/m^3); Colorimetric method 65% (JIS 11 class); No re-production.
* The actual dust situation affects the filter life span, which should be considered at the applying site.
Material: Electrostatic polyolefin fiber
High efficiency filter element PAC-SH59KF-E should be used together with the Multi-function casement PAC-SH53TM-E. When using PAC-SH59KF-E, switching on SWC of the Indoor unit address board is needed. Details should be referred to its Installation Manual.

Quantity	1	
Shape		

Detailed installation information is referred in its Installation Manual (BH79G727H01).

7-4. Multi-function casement

Multi-function casement is used for High efficiency filter element and/or fresh air intake from outdoor.
It should be used with High efficiency filter element PAC-SH59KF-E (Colorimetric method 65%).
Fresh air intake on the Multi-function casement is possible from any 2 or less corners among the 4 ones.
But duct and flange on the casement should be prepare locally.

Item	① Multi-functional casement	② Screw with washer (black)	③ Screw
Quantity	1	4	8
Shape		M5X0.8X25 	M5X0.8X12 
Item	④ Decoretive panel securing bracket	⑤ Insulator A for Decorative panel	⑥ Insulator B for Decorative panel
Quantity	4	1	1
Shape	With insulator 		

Detailed installation information should be referred to its Installation Manual (RG79Y264H01).

7-5. Move-eye Sensor corner panel

Move-eye Sensor provides comfortable space as it detects the floor temperature to prevent spotty temperature.
And that enables the unit to save energy.
Attention
Make sure that there are no gaps between the unit and the grille, and the grille and ceiling.
※ It may cause dew dripping.

Item	① Move-eye Sensor corner panel	② Plastic fastener	
Quantity	1	2	
Shape			

Detailed installation information should be referred to its Installation Manual (WG79B385H01).

7-6. Automatic filter elevation panel

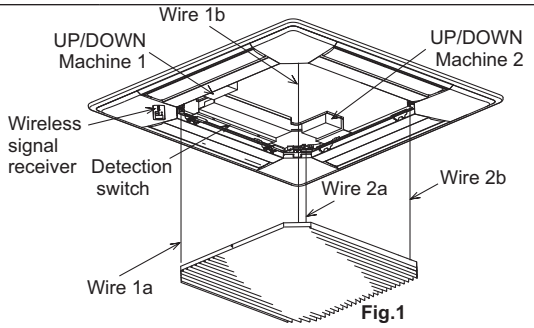
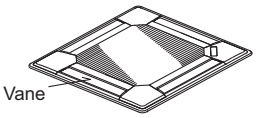
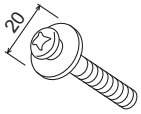
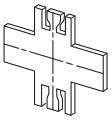
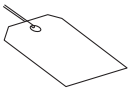


Fig.1

· Air intake grille can be lifted and lowered automatically by wired remote controller (MA type : PAR-21MAA) or wireless remote controller (Item 9).
· Lowering the air intake grille allows you to clean the filter easily.
· You can set up eight different stages of lowering distance for the air intake grille according to the set up location if desired. (Maximum : 4m)

Item	① Decorative panel	② Screw with washer	③ Installation gauge	④ Plastic fastener
Quantity	1	4	1	3
Shape	 Vane	M5X0.8X25  20	 (Used split into four pieces)	
Item	⑤ Tag	⑥ Screw	⑦ Screw	⑧ Screw
Quantity	1	4	1	3
Shape		4X8  Only three are used	4X12 	M5X10 
Item	⑨ Wireless remote controller			
Quantity	1			
Shape				

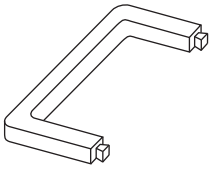
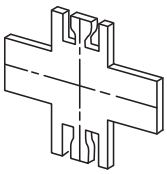
Detailed installation information should be referred to its Installation Manual (RG79D167K10)

7-7. Wireless signal receiver

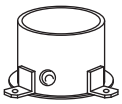
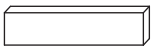
Wireless signal receiver S-MAC-121FA is necessary for using wireless remote controller S-MAC-121FA is a corner panel with the signal receiver for wireless remote controller.		
Item	① Wireless signal receiver	
Quantity	1	
Shape		

Detailed installation information should be referred to its Installation Manual (WG79B387H01)

7-8. Space panel

Decorative cover for the installation when the ceiling height is low.		
Item	① Space panel	② Gauge for installation
Quantity	2	1
Shape		

7-9. Duct flange for fresh air intake

Part to attach a duct to take in fresh air from outdoors.			
Item	① Duct flange	② Insulator	③ Screws (M4 x 10)
Quantity	1	1	3
Shape			

PKFY-P-VBM-EC, VHM-EC

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1. SPECIFICATIONS

Model				PKFY-P15VBM-EC	PKFY-P20VBM-EC	PKFY-P25VBM-EC	PKFY-P32VHM-EC
Power source				1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz
Cooling capacity		*1	kW	1.7	2.2	2.8	3.6
(Nominal)		*1	kcal / h	1,450	1,900	2,400	3,100
		*1	BTU / h	5,800	7,500	9,600	12,300
		*2	kcal / h	1,500	2,000	2,500	3,150
	Power input	*4	kW	0.04	0.04	0.04	0.04
(220V)	Current input	*4	A	0.20	0.20	0.20	0.40
Heating capacity		*3	kW	1.9	2.5	3.2	4.0
(Nominal)		*3	kcal / h	1,600	2,200	2,800	3,400
		*3	BTU / h	6,500	8,500	10,900	13,600
	Power input		kW	0.04	0.04	0.04	0.03
(220V)	Current input		A	0.20	0.20	0.20	0.30
External finish				Plastic, MUNSELL (1.0Y 9.2/0.2)	Plastic, MUNSELL (1.0Y 9.2/0.2)	Plastic, MUNSELL (1.0Y 9.2/0.2)	Plastic, MUNSELL (1.0Y 9.2/0.2)
External dimension HxWxD			mm	295x815x225	295x815x225	295x815x225	295x898x249
			in.	11-5/8 x 32-1/8 x 8-7/8	11-5/8 x 32-1/8 x 8-7/8	11-5/8 x 32-1/8 x 8-7/8	11-5/8 x 35-3/8 x 9-13/16
Net weight			kg(lbs)	10 (23)	10 (23)	10 (23)	13(29)
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
FAN	Type x Quantity			Line flow fan x 1	Line flow fan x 1	Line flow fan x 1	Line flow fan x 1
	External static press.		Pa	0	0	0	0
			mmH_2O	0	0	0	0
	Motor Type			1-phase induction motor	1-phase induction motor	1-phase induction motor	DC motor
	Motor output		kW	0.017	0.017	0.017	0.030
	Driving mechanism			Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-drive
	Airflow rate		m^3 / min	4.9-5.0-5.2-5.3	4.9-5.2-5.6-5.9	4.9-5.2-5.6-5.9	9-10-11
	(Low-Mid2-Mid-High)		L/s	82-83-87-88	82-87-93-98	82-87-93-98	150-167-183
			cfm	173-177-184-187	173-184-198-208	173-184-198-208	318-353-388
Sound pressure level (measured in anechoic room)			dB <A>	29-31-32-33	29-31-34-36	29-31-34-36	34-37-41
Insulation material				Polyethylene sheet	Polyethylene sheet	Polyethylene sheet	Polyethylene sheet
Air filter				PP honeycomb	PP honeycomb	PP honeycomb	PP honeycomb
Protection device				Fuse	Fuse	Fuse	Fuse
Refrigerant control device				LEV	LEV	LEV	LEV
Connectable outdoor unit				R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Diameter of refrigerant pipe	Liquid (R410A)		mm(in.)	6.35(1/4) Flare	6.35(1/4) Flare	6.35(1/4) Flare	6.35(1/4) Flare
	Gas (R410A)		mm(in.)	12.70(1/2) Flare	12.70(1/2) Flare	12.70(1/2) Flare	12.70(1/2) Flare
Field drain pipe size			mm(in.)	I.D. 16(5/8)	I.D. 16(5/8)	I.D. 16(5/8)	I.D. 16(5/8)
Drawing	External			-	-	-	-
	Wiring			-	-	-	-
	Refrigerant cycle			-	-	-	-
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory			-	-	-	-
Optional parts	External LEV Box			PAC-SG95LE-E	PAC-SG95LE-E	PAC-SG95LE-E	PAC-SG95LE-E
	Drain pump			-	-	-	PAC-SH75DM-E
Remarks				* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specification may be subject to change without notice.			

Notes :	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal cooling conditions	*3 Nominal heating conditions (subject to JIS B8615-1)
Indoor :	27degC D.B. / 19degC W.B.	27degC D.B. / 19.5degC W.B.	20degC D.B.
	(81degF D.B. / 66degF W.B.)	(81degF D.B. / 67degF W.B.)	(68degF D.B.)
Outdoor :	35degC D.B.	35degC D.B.	7degC D.B. / 6degC W.B.
	(95degF D.B.)	(95degF D.B.)	(45degF D.B. / 43degF W.B.)
Pipe length :	7.5 m (24-9/16 ft.)	5 m (16-3/8 ft.)	7.5 m (24-9/16 ft.)
Level difference :	0 m (0 ft.)	0 m (0 ft.)	0 m (0 ft.)

*4 Electrical characteristic of cooling are included optional drain-pump. (Applicable only to PKFY-P32VHM-EC)

Unit converter
kcal/h = kW x 860
BTU/h = kW x 3,412
cfm = m3/min x 35.31
lbs = kg / 0.4536
*The specification data is subject to rounding variation.

1. SPECIFICATIONS

Model				PKFY-P40VHM-EC	PKFY-P50VHM-EC		
Power source				1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz		
Cooling capacity		*1	kW	4.5	5.6		
(Nominal)		*1	kcal / h	3,900	4,800		
		*1	BTU / h	15,400	19,100		
		*2	kcal / h	4,000	5,000		
	Power input	*4	kW	0.04	0.04		
(220V)	Current input	*4	A	0.40	0.40		
Heating capacity		*3	kW	5.0	6.3		
(Nominal)		*3	kcal / h	4,300	5,400		
		*3	BTU / h	17,100	21,500		
	Power input		kW	0.03	0.03		
(220V)	Current input		A	0.30	0.30		
External finish				Plastic, MUNSELL (1.0Y 9.2/ 0.2)	Plastic, MUNSELL (1.0Y 9.2/ 0.2)		
External dimension HxWxD			mm	295x898x249	295x898x249		
			in.	11-5/8 x 35-3/8 x 9-13/16	11-5/8 x 35-3/8 x 9-13/16		
Net weight			kg(lbs)	13(29)	13(29)		
Heat exchanger				Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)		
FAN	Type x Quantity			Line flow fan x 1	Line flow fan x 1		
	External static press.		Pa	0	0		
			mmH_2O	0	0		
	Motor Type			DC motor	DC motor		
	Motor output		kW	0.030	0.030		
	Driving mechanism			Direct-drive	Direct-drive		
	Airflow rate		m^3 / min	9-10.5-11.5	9-10.5-12		
	(Low-Mid-High)		L/s	150-175-192	150-175-200		
			cfm	318-371-406	318-371-424		
Sound pressure level (measured in anechoic room)			dB <A>	34-38-41	34-39-43		
Insulation material				Polyethylene sheet	Polyethylene sheet		
Air filter				PP honeycomb	PP honeycomb		
Protection device				Fuse	Fuse		
Refrigerant control device				LEV	LEV		
Connectable outdoor unit				R410A CITY MULTI	R410A CITY MULTI		
Diameter of refrigerant pipe	Liquid (R410A)		mm(in.)	6.35(1/4) Flare	6.35(1/4) Flare		
	Gas (R410A)		mm(in.)	12.70(1/2) Flare	12.70(1/2) Flare		
Field drain pipe size			mm(in.)	I.D. 16(5/8)	I.D. 16(5/8)		
Drawing	External			-	-		
	Wiring			-	-		
	Refrigerant cycle			-	-		
Standard attachment	Document			Installation Manual, Instruction Book	Installation Manual, Instruction Book		
	Accessory			-	-		
Optional parts	External LEV Box			PAC-SG95LE-E	PAC-SG95LE-E		
	Drain pump			PAC-SH75DM-E	PAC-SH75DM-E		
Remarks				* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specification may be subject to change without notice.			

Notes :	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal cooling conditions	*3 Nominal heating conditions (subject to JIS B8615-1)
Indoor :	27degC D.B. / 19degC W.B.	27degC D.B. / 19.5degC W.B.	20degC D.B.
	(81degF D.B. / 66degF W.B.)	(81degF D.B. / 67degF W.B.)	(68degF D.B.)
Outdoor :	35degC D.B.	35degC D.B.	7degC D.B. / 6degC W.B.
	(95degF D.B.)	(95degF D.B.)	(45degF D.B. / 43degF W.B.)
Pipe length :	7.5 m (24-9/16 ft.)	5 m (16-3/8 ft.)	7.5 m (24-9/16 ft.)
Level difference :	0 m (0 ft.)	0 m (0 ft.)	0 m (0 ft.)

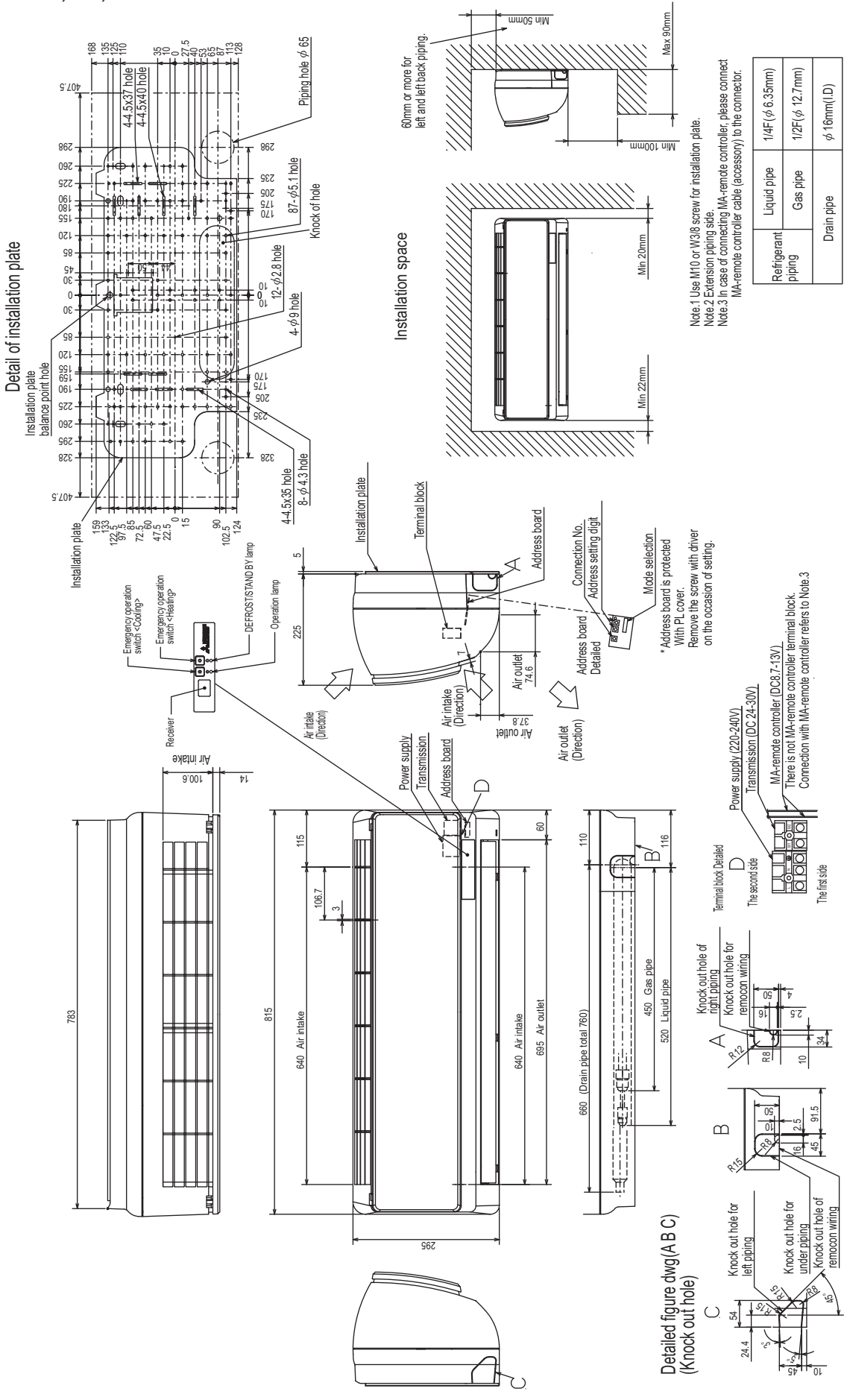
*4 Electrical characteristic of cooling are included optional drain-pump.

Unit converter
kcal/h = kW x 860
BTU/h = kW x 3,412
cfm = m3/min x 35.31
lbs = kg / 0.4536
*The specification data is subject to rounding variation.

PKFY

PKFY-P15, 20, 25VBM-EC

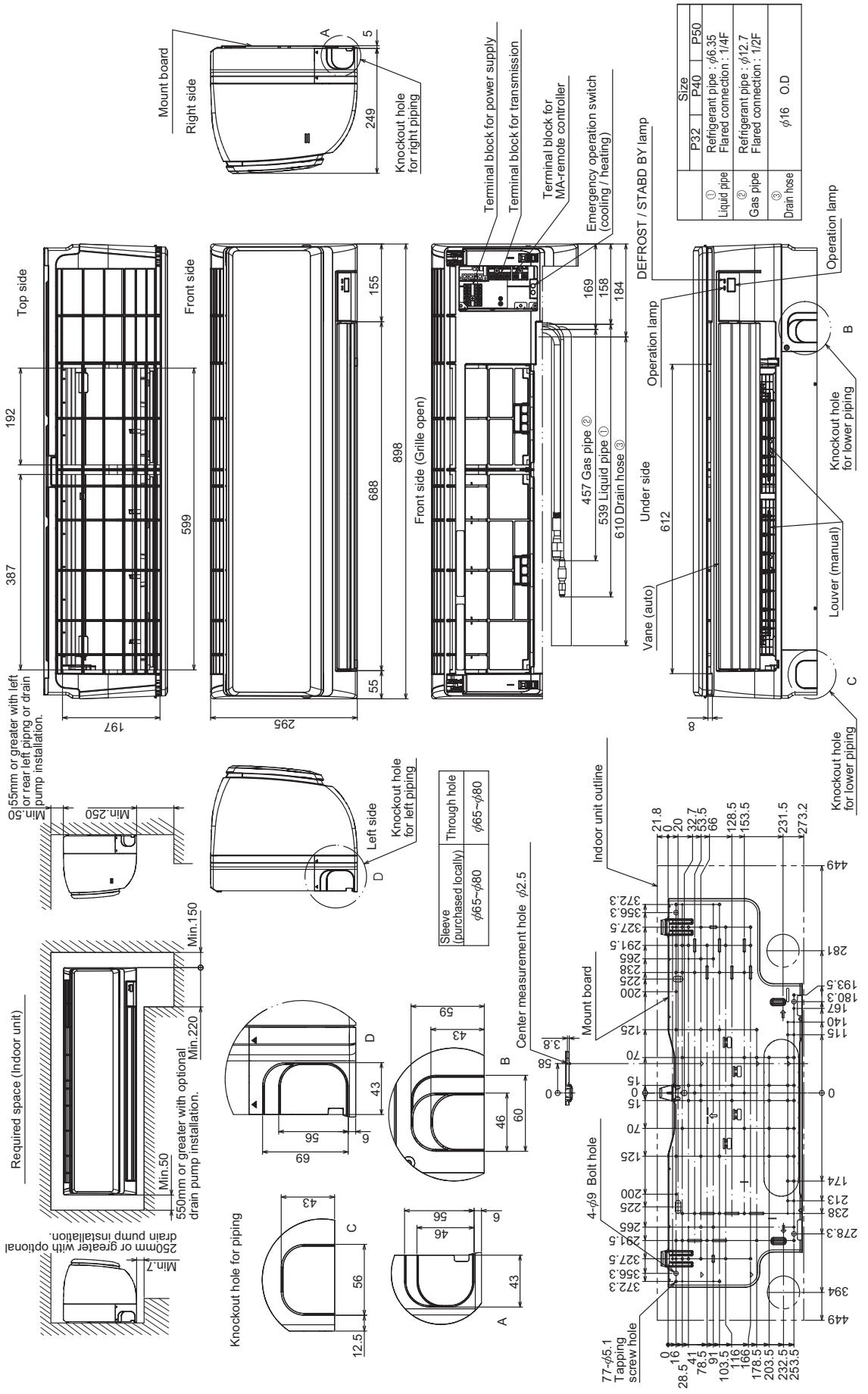
Unit : mm



2. EXTERNAL DIMENSIONS

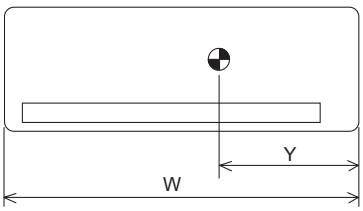
PKFY-P32, 40, 50VHM-EC

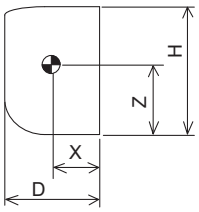
Unit : mm



PKFY

PKFY-P-VBM-EC, VHM-EC



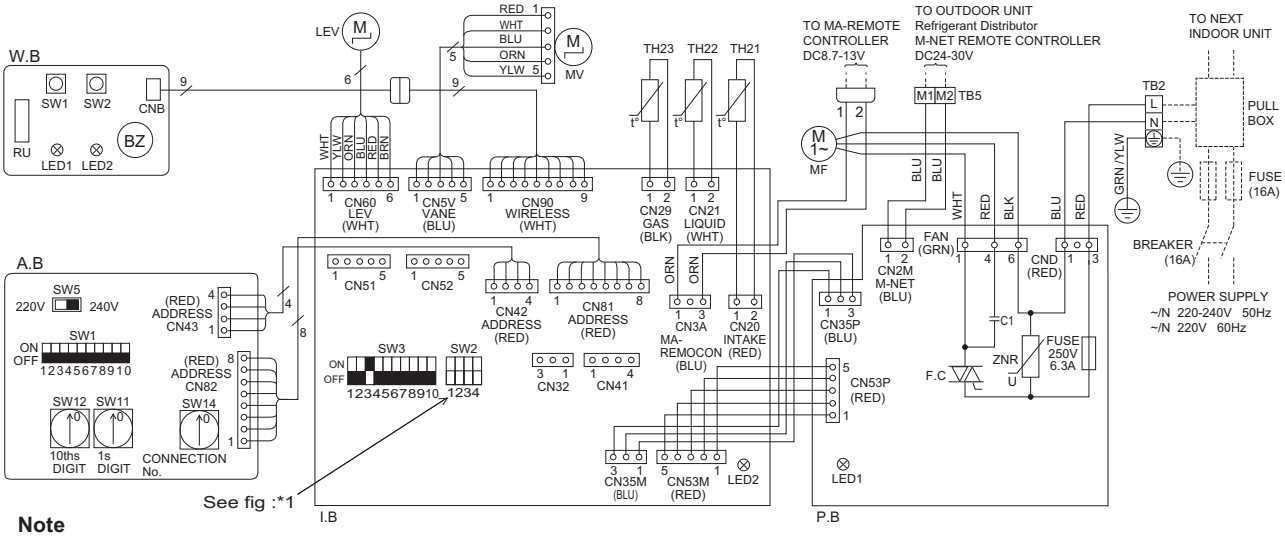


Model	W	D	H	X	Y	Z
PKFY-P15VBM-EC	815	225	295	120	300	150
PKFY-P20VBM-EC	815	225	295	120	300	150
PKFY-P25VBM-EC	815	225	295	120	300	150
PKFY-P32VHM-EC	898	249	295	120	390	160
PKFY-P40VHM-EC	898	249	295	120	390	160
PKFY-P50VHM-EC	898	249	295	120	390	160

PKFY-P15, 20, 25VBM-EC

Legend

Symbol	Name	Symbol	Name	Symbol	Name
I.B	Indoor controller board	MV	Vane motor	SW5	Switch: Voltage selection
CN32	Connector: Remote switch	LEV	Linear expansion valve	SW11	Address setting 1s digit
CN51	Centrally control	TB2	Terminal block: Power supply	SW12	Address setting 10ths digit
CN52	Remote indication	TB5	Terminal block: Transmission	SW14	Connection No.
SW2	Switch: Capacity code	TH21	Thermistor: Room temp.detection (0°C/15kΩ,25°C/5.4kΩ)	W.B	Wireless remote controller board
SW3	Mode selection	TH22	Pipe temp.detection/Liquid (0°C/15kΩ,25°C/5.4kΩ)	RU	Receving unit
P.B	Indoor power board	TH23	Pipe temp.detection/Gas (0°C/15kΩ,25°C/5.4kΩ)	BZ	Buzzer
ZNR	Varistor	A.B	Address board	LED1	LED(Operation indicator:Green)
FUSE	Fuse (T6.3AL 250V)	SW1	Switch: Mode selection	LED2	LED(Preparation for heating:Orange)
F.C	Fan phase control			SW1	Emergency operation (Heat)
C1	Capacitor (Fan motor)			SW2	Emergency operation (Cool)
MF	Fan motor				



Note

1.At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.

2.In case of using MA-remote controller,please connect MA-remote controller cable in an accessory to the connector (1 2) (Remote controller wire is non-polar.)

3.In case of using M-NET,please connect to TB5 (Transmission line is non-polar.)

4.Symbols used in wiring diagram above are, [ ] : terminal block, ○ ○ ○ : connector

5.The setting of the SW2 dip switches differs in the capacity. For the detail, refer to the fig :*1.

6.Please set the switch SW5 according to the power supply voltage.
Set SW5 to 240V side when the power supply is 230 and 240 volts.
When the power supply is 220 volts, set SW5 to 220V side.

LED on indoor board for service

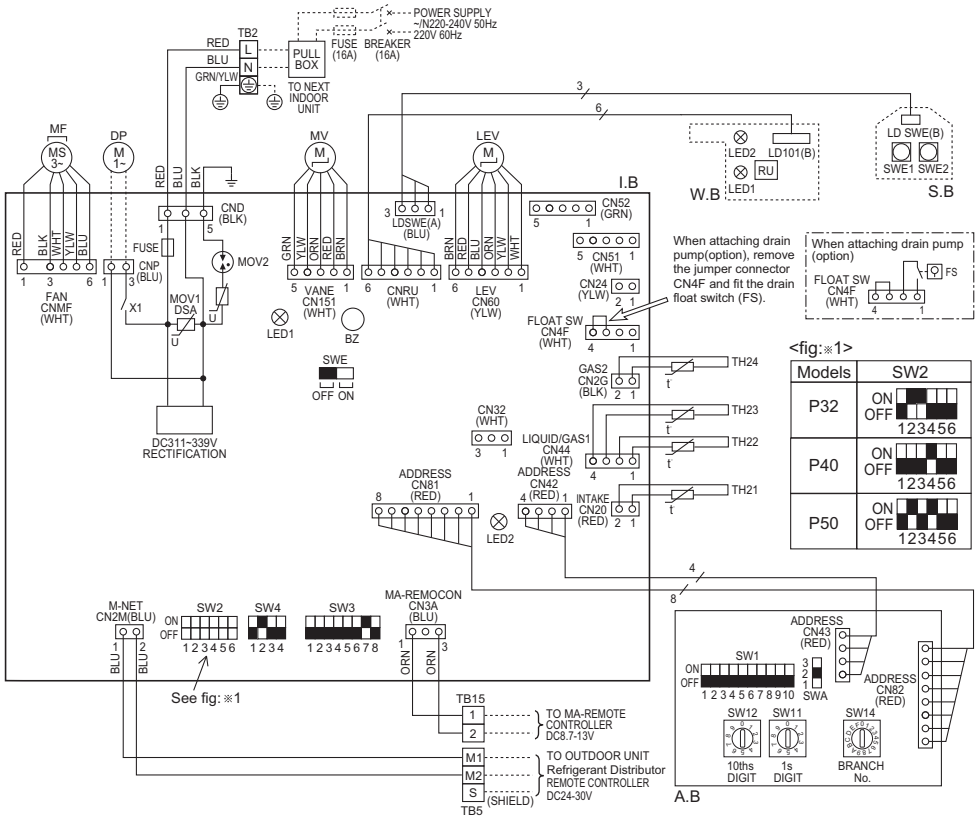
Mark	Meaning	Function
LED1	Main power supply	Main power supply (indoor unit:220-240V) power on → lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

<*1>

MODELS	SW2	MODELS	SW2	MODELS	SW2
P15	ON OFF 1 2 3 4	P20	ON OFF 1 2 3 4	P25	ON OFF 1 2 3 4

PKFY-P32, 40, 50VHM-EC

SYMBOL	NAME		SYMBOL	NAME	
I.B	INDOOR CONTROLLER BOARD		TH21	THERMISTOR	ROOM TEMP. DETECTION (0°C/15kΩ, 25°C/5.4kΩ)
CN32	CONNECTOR	REMOTE SWITCH			
CN51		CENTRALLY CONTROL	TH22		PIPE TEMP. DETECTION / LIQUID (0°C/15kΩ, 25°C/5.4kΩ)
CN52		REMOTE INDICATION			
BZ	BUZZER		TH23		PIPE TEMP. DETECTION / GAS1 (0°C/15kΩ, 25°C/5.4kΩ)
DSA	SURGE ABSORBER				
FUSE	FUSE (T3.15AL 250V)		TH24		PIPE TEMP. DETECTION / GAS2 (0°C/15kΩ, 25°C/5.4kΩ)
LED1	POWER SUPPLY (I.B)				
LED2	POWER SUPPLY (I.B)		A.B	ADDRESS BOARD	
SW2	SWITCH	CAPACITY CODE	SWA	SWITCH	FAN SPEED SELECTOR
SW3		MODE SELECTION	SW1		MODE SELECTION
SW4		MODEL SELECTOR	SW11		ADDRESS SETTING 1s DIGIT
SWE		DRAIN PUMP (TEST MODE)	SW12		ADDRESS SETTING 10ths DIGIT
X1	AUX.RELAY	DRAIN PUMP (OPTION)	SW14		BRANCH No.
MOV 01,02	VARISTOR		S.B	SWITCH BOARD	
LEV	LINEAR EXPANSION VALVE		SWE1	EMERGENCY OPERATION(HEAT)	
MF	FAN MOTOR		SWE2	EMERGENCY OPERATION(COOL)	
MV	VANE MOTOR		W.B	PCB FOR WIRELESS REMOTE CONTROLLER	
TB2	TERMINAL	POWER SUPPLY	LED1	LED(OPERATION INDICATOR:GREEN)	
TB5	BLOCK	TRANSMISSION	LED2	LED(OPERATION FOR HEATING :ORANGE)	
TB15		MA-REMOTE CONTROLLER	RU	RECEIVING UNIT	
			DP	DRAIN PUMP (OPTION)	
			FS	DRAIN FLOAT SWITCH (OPTION)	



LED on indoor board for service

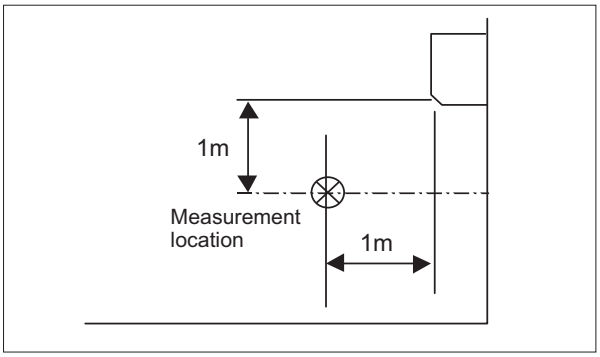
Mark	Meaning	Function
LED1	Main power supply	Main power supply (Indoor unit:220-240V) Power on → lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

NOTES:
1.At servicing for outdoor unit,always follow the wiring diagram of outdoor unit.
2.In case of using MA-Remote controller, please connect to TB15.
(Remote controller wire is non-polar.)
3.In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
4.Symbol [S] of TB5 is the shield wire connection.
5.Symbols used in wiring diagram above are, □□□: terminal block, ○○○:connecter.
6.The setting of the SW2 dip switches differs in the capacity. for the detail, refer to the fig: ※1.

5. SOUND LEVELS

5-1. Sound levels

Wall mounted



Sound level at anechoic room : Low-(Middle2-Middle)-High

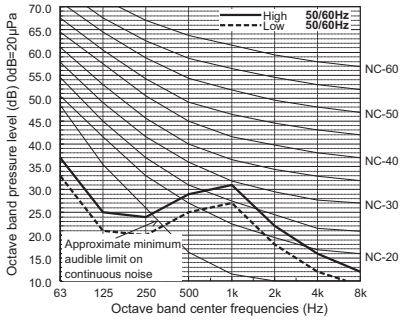
Model	Sound level dB (A)
PKFY-P15VBM-EC	29-31-32-33
PKFY-P20VBM-EC PKFY-P25VBM-EC	29-31-34-36
PKFY-P32VHM-EC	34-37-41
PKFY-P40VHM-EC	34-38-41
PKFY-P50VHM-EC	34-39-43

* Measured in anechoic room.

5-2. NC curves

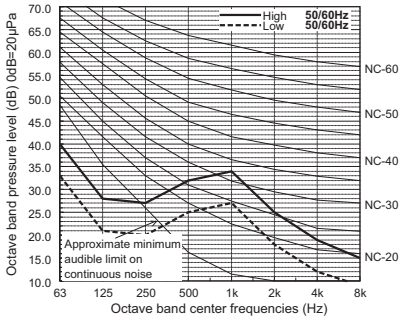
PKFY-P15VBM-EC

External Static Pressure: 0Pa
Power Source: 220-240V/50Hz, 220V/60Hz



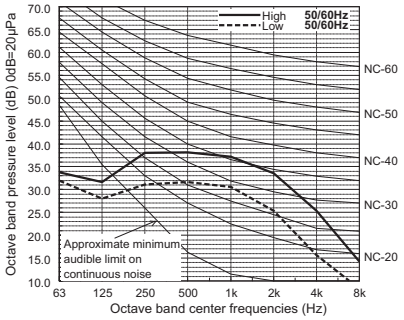
PKFY-P20, 25VBM-EC

External Static Pressure: 0Pa
Power Source: 220-240V/50Hz, 220V/60Hz



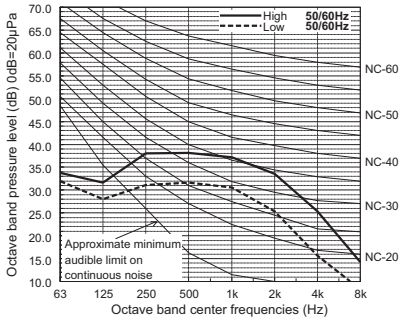
PKFY-P32VHM-EC

External Static Pressure: 0Pa
Power Source: 220-240V/50Hz, 220V/60Hz



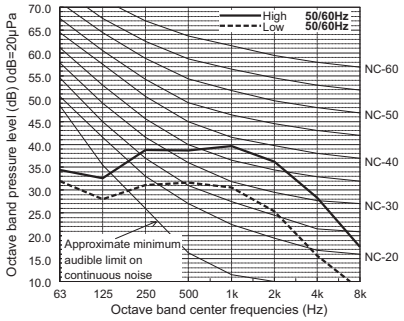
PKFY-P40VHM-EC

External Static Pressure: 0Pa
Power Source: 220-240V/50Hz, 220V/60Hz



PKFY-P50VHM-EC

External Static Pressure: 0Pa
Power Source: 220-240V/50Hz, 220V/60Hz

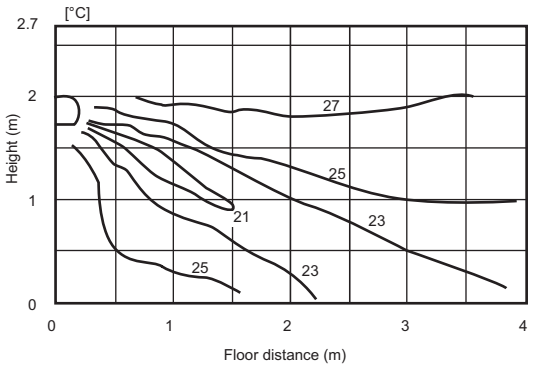


6. TEMPERATURE/AIRFLOW DISTRIBUTIONS

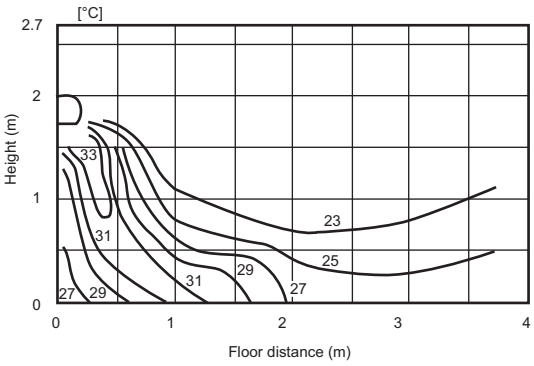
6-1. Temperature distributions

PKFY-P15-25VBM-EC

<Cooling mode>
Horizontal air flow

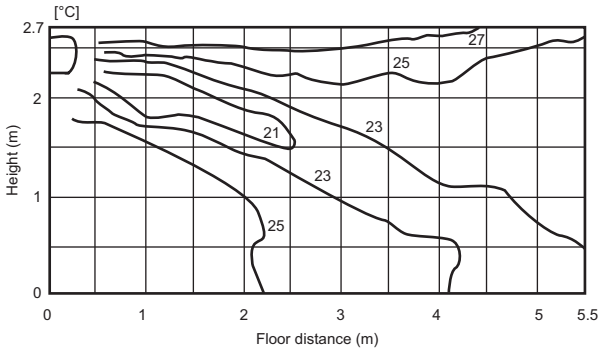


<Heating mode>
Downward air flow

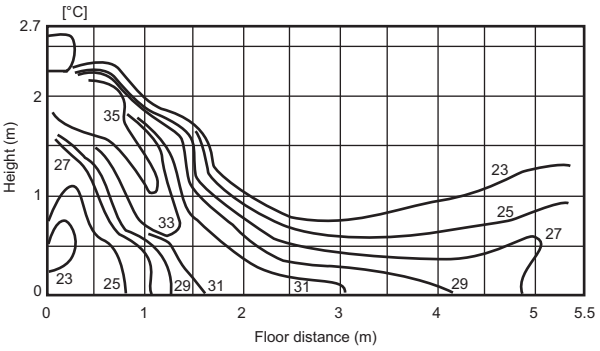


PKFY-P32-50VHM-EC

<Cooling mode>
Horizontal air flow



<Heating mode>
Downward air flow



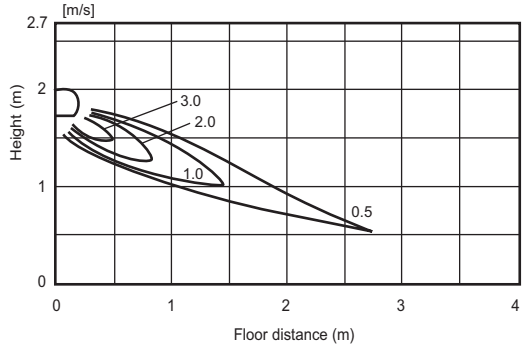
Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

PKFY

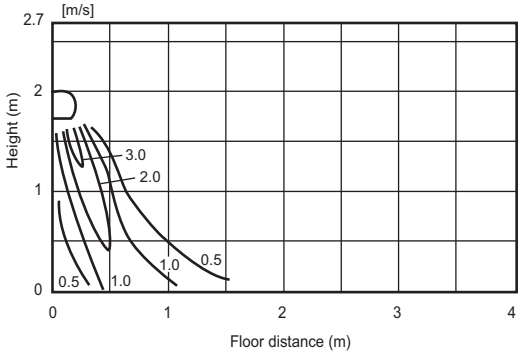
6-2. Airflow distributions

PKFY-P15-25VBM-EC

<Fan mode>
Horizontal air flow

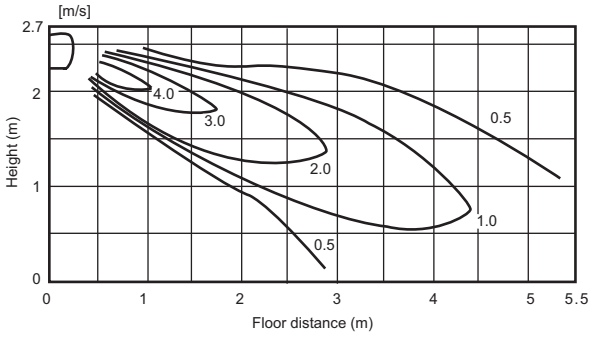


<Fan mode>
Downward air flow

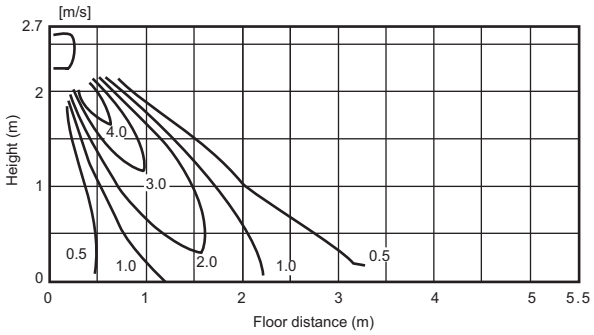


PKFY-P32-50VHM-EC

<Fan mode>
Horizontal air flow



<Fan mode>
Downward air flow



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

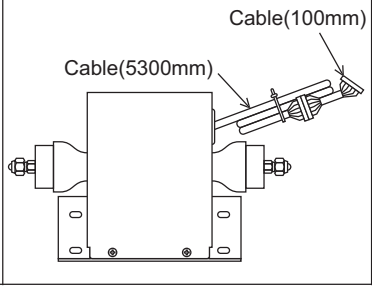
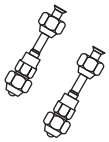
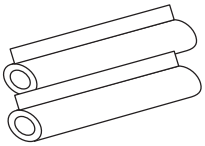
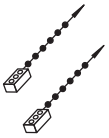
PKFY

7. OPTIONAL PARTS

7-1. Optional parts line up for the Indoor unit

	External LEV Box	Drain pump
PKFY-P15, 20, 25VBM-EC	PAC-SG95LE-E	—
PKFY-P32, 40, 50VHM-EC	PAC-SG95LE-E	PAC-SH75DM-E

7-2. External LEV Box

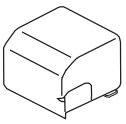
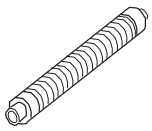
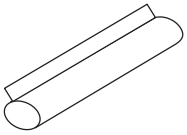
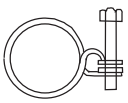
Item	① External LEV Box	② Joint pipe	③ Pipe cover	④ Band	⑤ Fastener
Quantity	1	2	2	2	2
Shape					

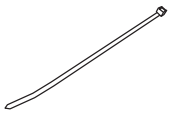
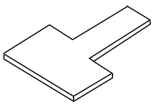
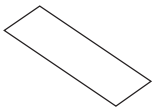
Detailed installation information should be referred to its Installation Manual (RG79A417K01)

7-3. Drain pump

PAC-SH75DM-E

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed.
Drain pump PAC-SH75DM-E can pump water up to 800mm high from the drain pan.

Item	① Drain pump	② Screw	③ Drain hose	④ Drain hose cover	⑤ Hose band
Quantity	1	(M4×16)×1, (M4×35)×6	1	1	1
Shape					

Item	⑥ Band	⑦ Installtion plate	⑧ Wiring diagram
Quantity	1	1	1
Shape			

Detailed installation information should be referred to its Installation Manual (RG79Y375H01)

PKFY

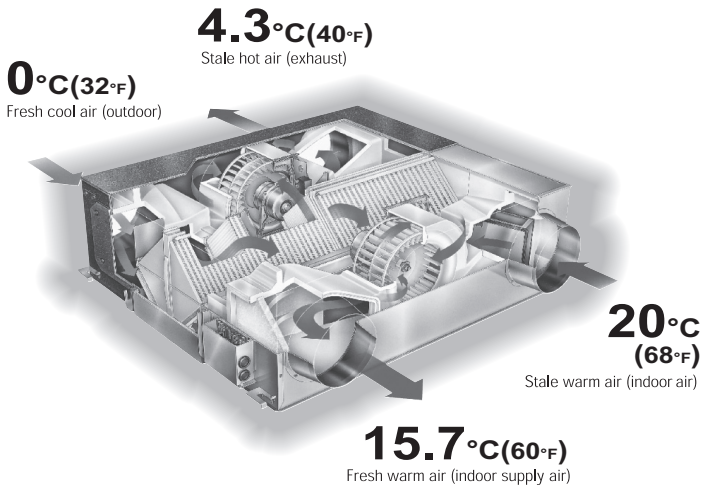
LGH-RX4-C2

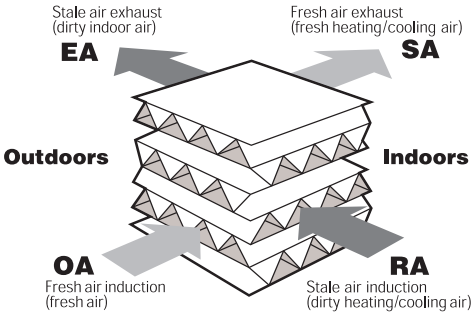
1. EXTERNAL DIMENSIONS ..... 1 - 105
2. PERFORMANCE ..... 1 - 106
3. SPECIFICATIONS ..... 1 - 107
4. SAMPLE INSTALLATIONS ..... 1 - 110
5. ELECTRICAL INSTALLATIONS ..... 1 - 111
6. ELECTRICAL WIRING DIAGRAMS ..... 1 - 112

LOSSNAY

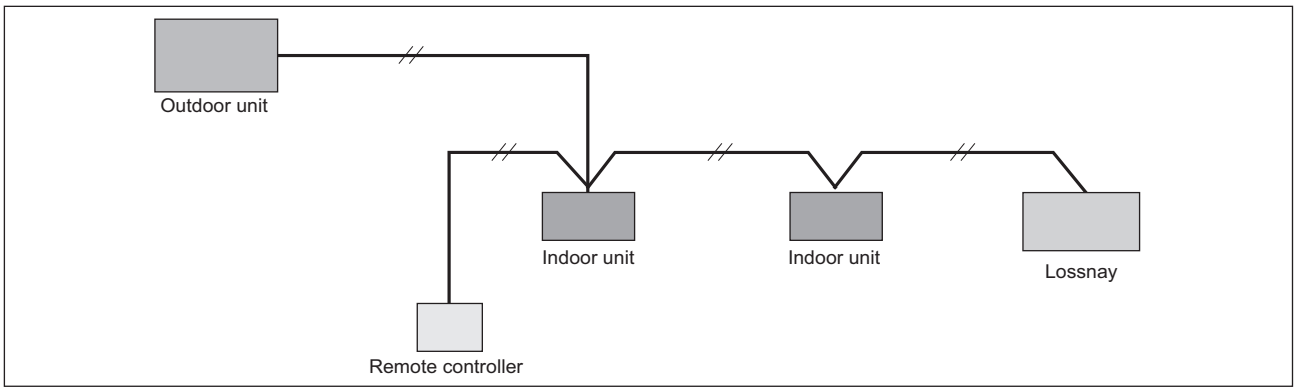
LOSSNAY is a perfect combination of heat recovery and ventilation, which is a leading edge product in the ventilation and air-conditioning field.

The LOSSNAY core is a special preserved paper made cross-flow and plate-fin structure, which is referable below.

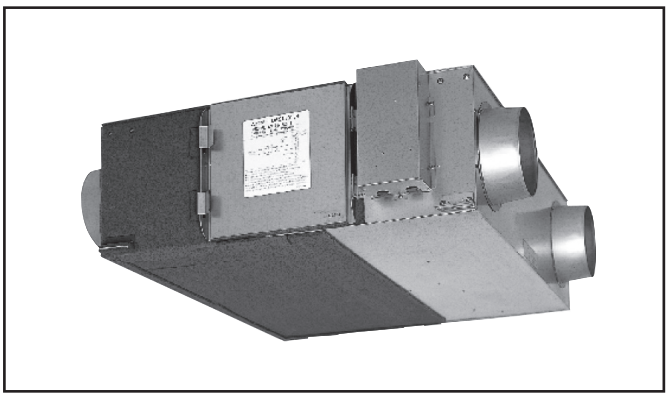




CITY MULTI can combine LOSSNAY into the air conditioning system, performing the best solution to ventilation and air-conditioning.



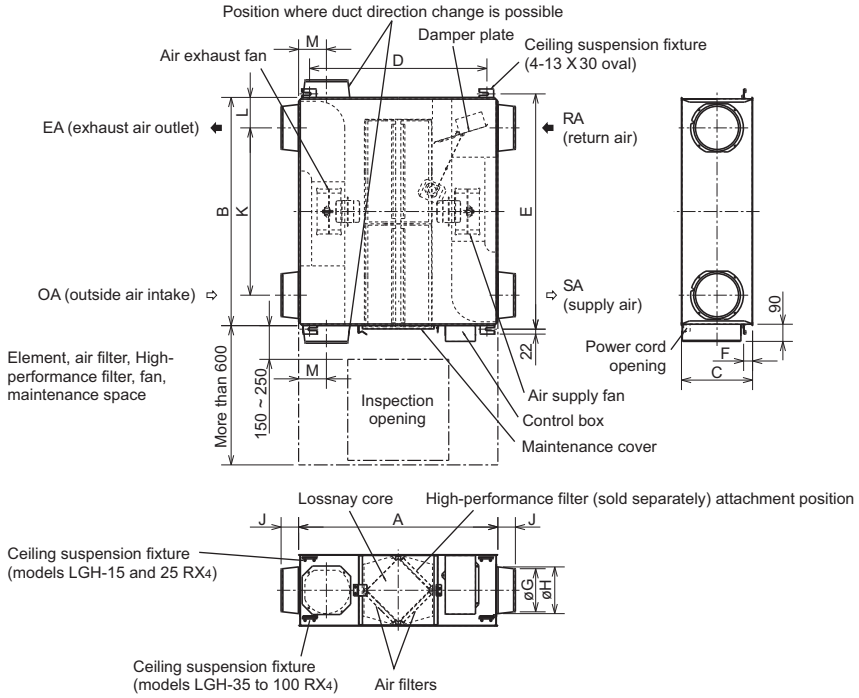
Line up of LOSSNAY units



LGH-15RX4-C2	150m3/h	1-phase 220V, 50Hz
LGH-25RX4-C2	250m3/h	1-phase 220V, 50Hz
LGH-35RX4-C2	350m3/h	1-phase 220V, 50Hz
LGH-50RX4-C2	500m3/h	1-phase 220V, 50Hz
LGH-65RX4-C2	650m3/h	1-phase 220V, 50Hz
LGH-80RX4-C2	800m3/h	1-phase 220V, 50Hz
LGH-100RX4-C2	1000m3/h	1-phase 220V, 50Hz
LGH-150RX4-C2	1500m3/h	1-phase 220V, 50Hz
LGH-200RX4-C2	2000m3/h	1-phase 220V, 50Hz

1. EXTERNAL DIMENSIONS

LGH-15, 25, 35, 50, 65, 80, 100RX4-C2



Accessory parts

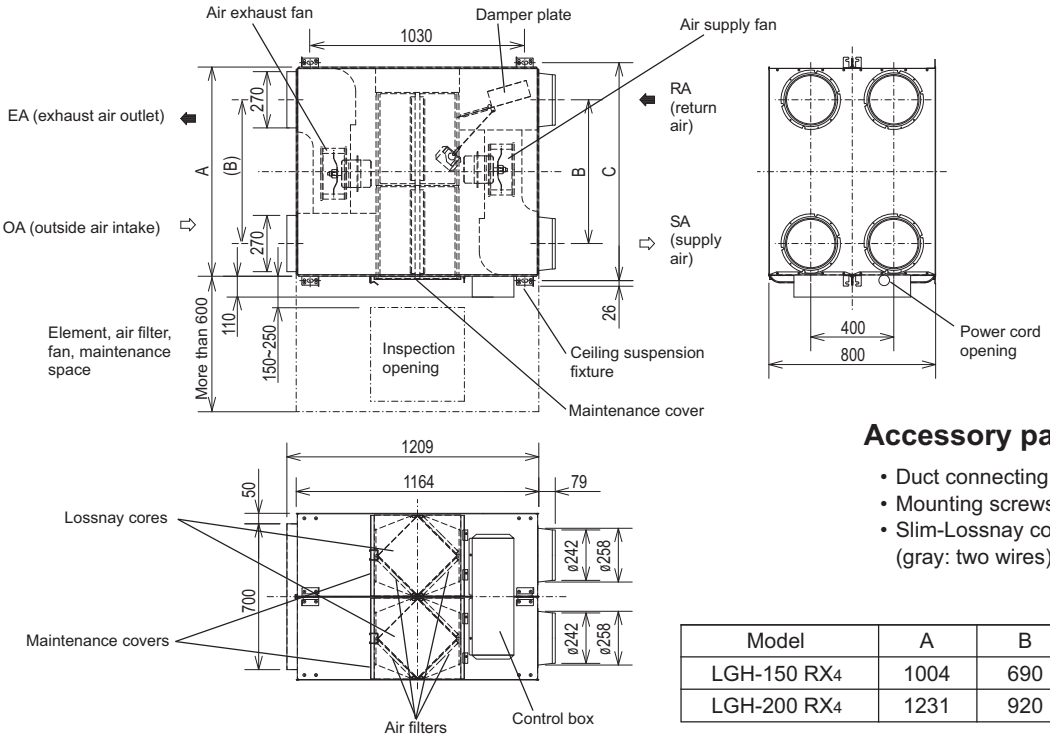
- Mounting screws x18
- Duct connecting flanges x4
  (double flanges at SA and EA sides)
- Protective cover x1
  <For installing upside down>
- Slim-Lossnay connection cable
  (gray: two wires) x1

Unit (mm)

Model	Dimensions			Ceiling suspension fixture pitch			Nominal diameter	Duct connecting flange			Duct pitch			Weight (kg)
	A	B	C	D	E	F		G	H	J	K	L	M	
LGH-15 RX4	780	610	275	700	641	10*	ø100	97.5	110	54	450	80	119	17
LGH-25 RX4	780	735	275	700	765	10*	ø150	142	160	63	530	102.5	102	21
LGH-35 RX4	888	874	317	790	906	36	ø150	142	160	63	650	112	124	30
LGH-50 RX4	888	1016	317	790	1048	36	ø200	192	208	79	745	135.5	124	33
LGH-65 RX4	908	954	388	810	985	37	ø200	192	208	79	690	132	124	46
LGH-80 RX4	1164	1004	398	1030	1036	10	ø250	242	258	79	690	157	149	61
LGH-100 RX4	1164	1231	398	1030	1263	10	ø250	242	258	79	920	155.5	149	69

* Shows the distance from the ceiling.

LGH-150, 200RX4-C2



Accessory parts

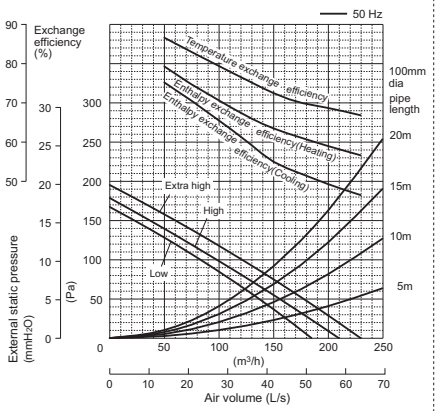
- Duct connecting flanges x4
- Mounting screws x16
- Slim-Lossnay connection cable
  (gray: two wires) x1

Unit (mm)

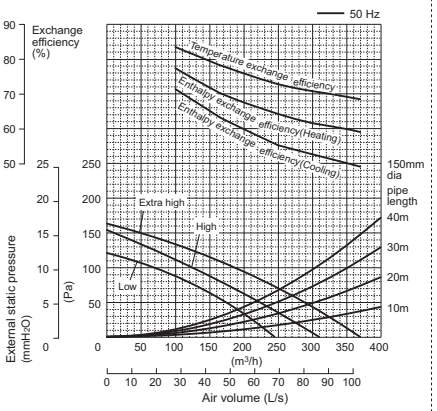
Model	A	B	C	Weight (kg)
LGH-150 RX4	1004	690	1046	124
LGH-200 RX4	1231	920	1273	140

LOSSNAY

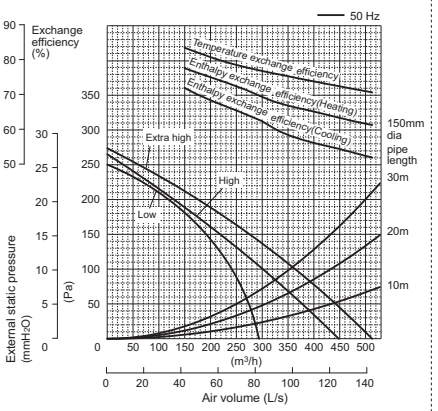
LGH-15RX4-C2



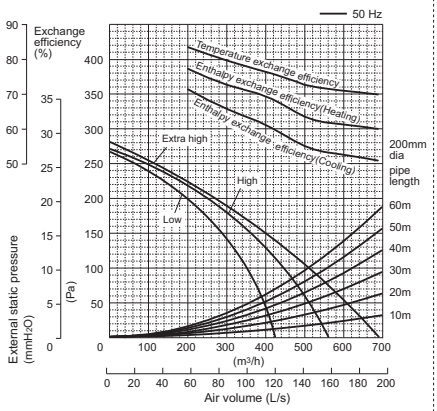
LGH-25RX4-C2



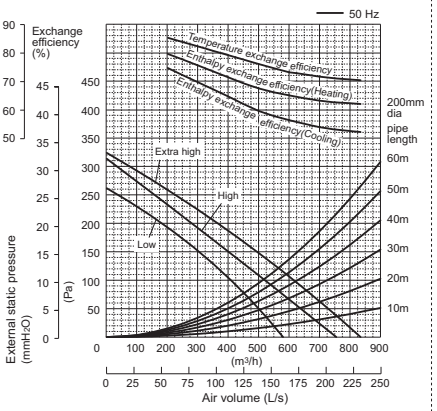
LGH-35RX4-C2



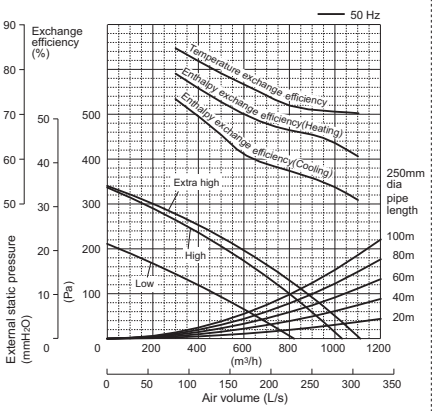
LGH-50RX4-C2



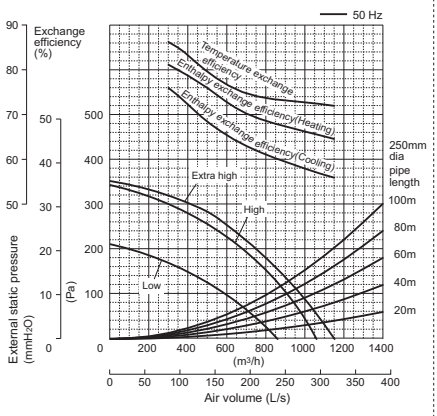
LGH-65RX4-C2



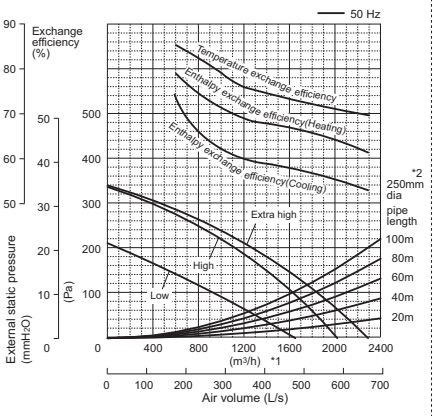
LGH-80RX4-C2



LGH-100RX4-C2

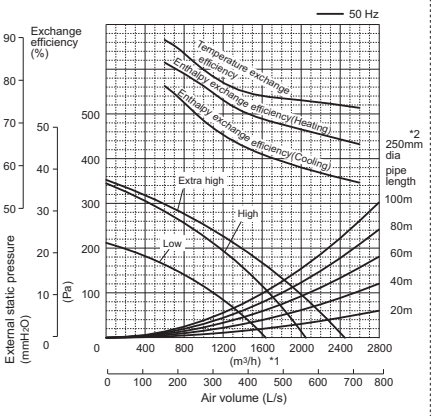


LGH-150RX4-C2



*1. The air volume is total value of 2 pipes. Each air volume could be calculated based on ratio between 2 equivalent straight pipe.
*2. Static pressure curve of each pipe length on the graph are sum of outdoor and indoor side ducts as following ducts are used.
*Outdoor duct is 10m of 270mm x 700mm duct.
*Indoor ducts are 2 of 250mm dia ducts.
Each number of pipe length on the graph show average length of 2 indoor straight ducts.

LGH-200RX4-C2



*1. The air volume is total value of 2 pipes. Each air volume could be calculated based on ratio between 2 equivalent straight pipe.
*2. Static pressure curve of each pipe length on the graph are sum of outdoor and indoor side ducts as following ducts are used.
*Outdoor duct is 10m of 270mm x 700mm duct.
*Indoor ducts are 2 of 250mm dia ducts.
Each number of pipe length on the graph show average length of 2 indoor straight ducts.

LGH-15RX4-C2

Model			LGH-15RX4-C2					
Power source			1-phase 220V ~50Hz					
Ventilation mode			Lossnay ventilation			Bypass ventilation		
Fan speed			Extra High	High	Low	Extra High	High	Low
Current		(A)	0.50	0.38	0.34	0.51	0.38	0.34
Power consumption		(W)	103	83	73	104	83	73
Air volume		(m^3/h)	150	150	110	150	150	110
		(L/s)	42	42	31	42	42	31
External static pressure		(Pa)	75	55	75	75	55	75
		(mmH_2O)	7.6	5.6	7.6	7.6	5.6	7.6
Temperature recovery efficiency		(%)	72.5	72.5	78	-	-	-
Enthalpy recovery efficiency	Heating	(%)	63.5	63.5	69	-	-	-
	Cooling	(%)	55	55	63.5	-	-	-
Noise	*1	(dB)	32.5	29.5	26.5	32.5	29.5	26.5
Weight			17kg					
Starting current			Under 1.2A or less					

LGH-25RX4-C2

Model			LGH-25RX4-C2					
Power source			1-phase 220V ~50Hz					
Ventilation mode			Lossnay ventilation			Bypass ventilation		
Fan speed			Extra High	High	Low	Extra High	High	Low
Current		(A)	0.53	0.44	0.38	0.53	0.44	0.38
Power consumption		(W)	112	95	79	112	95	79
Air volume		(m^3/h)	250	250	165	250	250	165
		(L/s)	69	69	46	69	69	46
External static pressure		(Pa)	70	35	55	70	35	55
		(mmH_2O)	7.1	3.6	5.6	7.1	3.6	5.6
Temperature recovery efficiency		(%)	72.5	72.5	78	-	-	-
Enthalpy recovery efficiency	Heating	(%)	64	64	70	-	-	-
	Cooling	(%)	55	55	63	-	-	-
Noise	*1	(dB)	33.5	29	26	33.5	29	26
Weight			21kg					
Starting current			Under 0.6A or less					

LGH-35RX4-C2

Model			LGH-35RX4-C2					
Power source			1-phase 220V ~50Hz					
Ventilation mode			Lossnay ventilation			Bypass ventilation		
Fan speed			Extra High	High	Low	Extra High	High	Low
Current		(A)	0.81	0.80	0.80	0.82	0.80	0.85
Power consumption		(W)	177	173	173	177	176	187
Air volume		(m^3/h)	350	350	270	350	350	270
		(L/s)	97	97	75	97	97	75
External static pressure		(Pa)	110	70	60	110	70	60
		(mmH_2O)	11.2	7.1	6.1	11.2	7.1	6.1
Temperature recovery efficiency		(%)	76	76	78.5	-	-	-
Enthalpy recovery efficiency	Heating	(%)	67.5	67.5	72	-	-	-
	Cooling	(%)	59	59	65	-	-	-
Noise	*1	(dB)	39.5	36	31	39.5	36	31
Weight			30kg					
Starting current			Under 1.4A or less					

LGH-50RX4-C2

Model			LGH-50RX4-C2					
Power source			1-phase 220V ~50Hz					
Ventilation mode			Lossnay ventilation			Bypass ventilation		
Fan speed			Extra High	High	Low	Extra High	High	Low
Current		(A)	0.96	1.01	0.94	0.96	1.03	0.96
Power consumption		(W)	210	222	205	210	225	210
Air volume		(m^3/h)	500	500	380	500	500	380
		(L/s)	139	139	106	139	139	106
External static pressure		(Pa)	105	60	70	105	60	70
		(mmH_2O)	10.7	6.1	7.1	10.7	6.1	7.1
Temperature recovery efficiency		(%)	72.5	72.5	77.5	-	-	-
Enthalpy recovery efficiency	Heating	(%)	63.5	63.5	70	-	-	-
	Cooling	(%)	55	55	62	-	-	-
Noise	*1	(dB)	41	39.5	31.5	41	39.5	31.5
Weight			33kg					
Starting current			Under 2.2A or less					

*1 Measured at 1.5m under the center of panel.

LGH-65RX4-C2

Model			LGH-65RX4-C2					
Power source			1-phase 220V ~50Hz					
Ventilation mode			Lossnay ventilation			Bypass ventilation		
Fan speed			Extra High	High	Low	Extra High	High	Low
Current		(A)	1.77	1.51	1.06	1.75	1.49	1.06
Power consumption		(W)	388	331	231	383	325	230
Air volume		(m^3/h)	650	650	500	650	650	500
		(L/s)	181	181	139	181	181	139
External static pressure		(Pa)	85	45	50	85	45	50
		(mmH_2O)	8.7	4.6	5.1	8.7	4.6	5.1
Temperature recovery efficiency		(%)	72.5	72.5	76	-	-	-
Enthalpy recovery efficiency	Heating	(%)	64	64	67.5	-	-	-
	Cooling	(%)	55	55	59.5	-	-	-
Noise	*1	(dB)	41.5	38	33	41.5	38	33
Weight			46kg					
Starting current			Under 2.8A or less					

LGH-80RX4-C2

Model			LGH-80RX4-C2					
Power source			1-phase 220V ~50Hz					
Ventilation mode			Lossnay ventilation			Bypass ventilation		
Fan speed			Extra High	High	Low	Extra High	High	Low
Current		(A)	1.86	1.87	2.70	1.85	1.85	2.71
Power consumption		(W)	407	400	437	400	400	440
Air volume		(m^3/h)	800	800	670	800	800	670
		(L/s)	222	222	186	222	222	186
External static pressure		(Pa)	125	100	45	125	100	45
		(mmH_2O)	12.7	10.2	4.6	12.7	10.2	4.6
Temperature recovery efficiency		(%)	72	72	75	-	-	-
Enthalpy recovery efficiency	Heating	(%)	66.5	66.5	68.5	-	-	-
	Cooling	(%)	57.5	57.5	59.5	-	-	-
Noise	*1	(dB)	43.5	40.5	37	43.5	40.5	37
Weight			61kg					
Starting current			Under 5.0A or less					

LGH-100RX4-C2

Model			LGH-100RX4-C2					
Power source			1-phase 220V ~50Hz					
Ventilation mode			Lossnay ventilation			Bypass ventilation		
Fan speed			Extra High	High	Low	Extra High	High	Low
Current		(A)	2.29	2.52	2.73	2.21	2.35	2.72
Power consumption		(W)	500	545	445	485	515	440
Air volume		(m^3/h)	1000	1000	700	1000	1000	700
		(L/s)	278	278	194	278	278	194
External static pressure		(Pa)	90	45	65	90	45	65
		(mmH_2O)	9.2	4.6	6.6	9.2	4.6	6.6
Temperature recovery efficiency		(%)	73	73	75	-	-	-
Enthalpy recovery efficiency	Heating	(%)	66.5	66.5	70.5	-	-	-
	Cooling	(%)	58	58	6.3	-	-	-
Noise	*1	(dB)	43	40.5	39.5	43	40.5	39.5
Weight			69kg					
Starting current			Under 5.0A or less					

LGH-150RX4-C2

Model			LGH-150RX4-C2					
Power source			1-phase 220V ~50Hz					
Ventilation mode			Lossnay ventilation			Bypass ventilation		
Fan speed			Extra High	High	Low	Extra High	High	Low
Current		(A)	3.65	3.64	5.52	3.63	3.55	5.44
Power consumption		(W)	800	785	890	800	760	870
Air volume		(m^3/h)	1500	1500	1200	1500	1500	1200
		(L/s)	417	417	333	417	417	333
External static pressure		(Pa)	165	130	65	165	130	65
		(mmH_2O)	16.8	13.3	6.6	16.8	13.3	6.6
Temperature recovery efficiency		(%)	74	74	76	-	-	-
Enthalpy recovery efficiency	Heating	(%)	67.5	67.5	69	-	-	-
	Cooling	(%)	58.5	58.5	60	-	-	-
Noise	*1	(dB)	47.5	44.5	40	47.5	44.5	40
Weight			124kg					
Starting current			Under 10.0A or less					

*1 Measured at 1.5m under the center of panel.

LOSSNAY

LGH-200RX4-C2

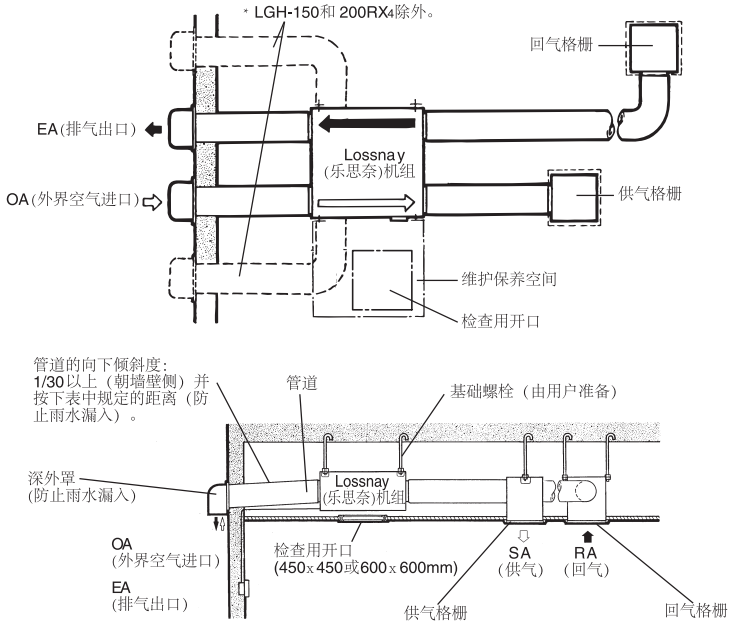
Model			LGH-200RX4-C2					
Power source			1-phase 220V ~50Hz					
Ventilation mode			Lossnay ventilation			Bypass ventilation		
Fan speed			Extra High	High	Low	Extra High	High	Low
Current		(A)	4.66	5.17	5.40	4.50	4.85	5.38
Power consumption		(W)	1020	1130	880	980	1050	890
Air volume		(m^3/h)	2000	2000	1400	2000	2000	1400
		(L/s)	556	556	389	556	556	389
External static pressure		(Pa)	90	15	50	90	15	50
		(mmH_2O)	9.2	1.5	5.1	9.2	1.5	5.1
Temperature recovery efficiency		(%)	73	73	75	-	-	-
Enthalpy recovery efficiency	Heating	(%)	66.5	66.5	70.5	-	-	-
	Cooling	(%)	58	58	63	-	-	-
Noise	*1	(dB)	46	43.5	42.5	46	43.5	42.5
Weight			140kg					
Starting current			Under 10.0A or less					

*1 Measured at 1.5m under the center of panel.

- 管道长度

型号	距离
LGH-15至65RX4	1m以上
LGH-80和100RX4	2.5m以上
LGH-150和200RX4	3m以上

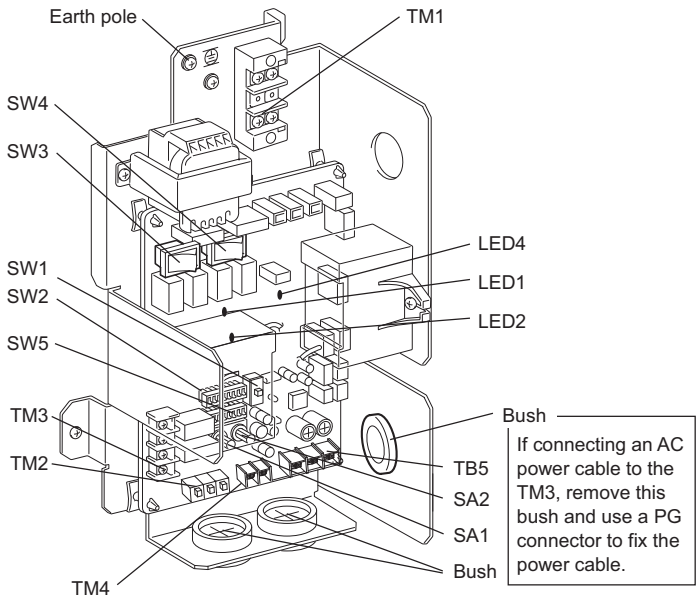
- 这些部件也能上下倒置安装。
  拆下维护保养罩，将这些部件旋转180°后再重新安装。



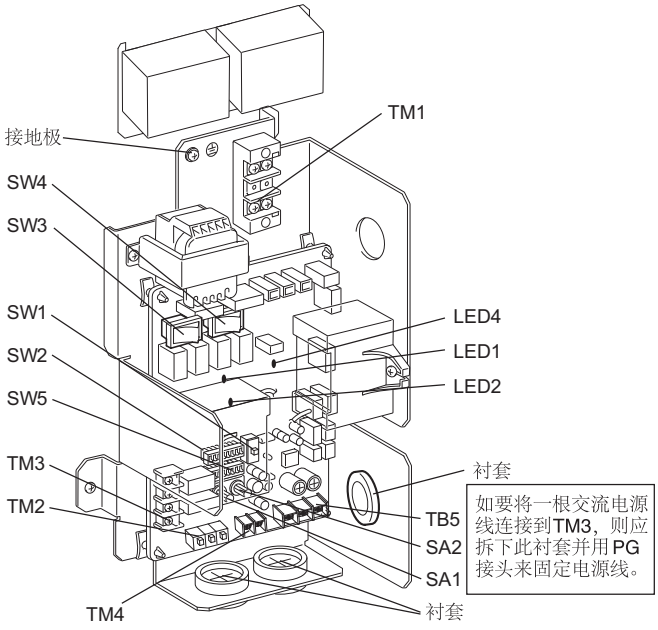
Installation conditions:
●Ambient conditions: Temperature -10℃ to +40℃, relative humidity less than 80%. When condensation is expected to form, heat up the outside air using a duct heater, etc.
●Outside air intake conditions: Temperature -15℃ to +40℃, relative humidity less than 80%.

With this product, the wiring installation method will vary according to the design of the system. Perform electrical installation for each of the required sections.
* Always use double insulated PVC cable for the transmission lines.

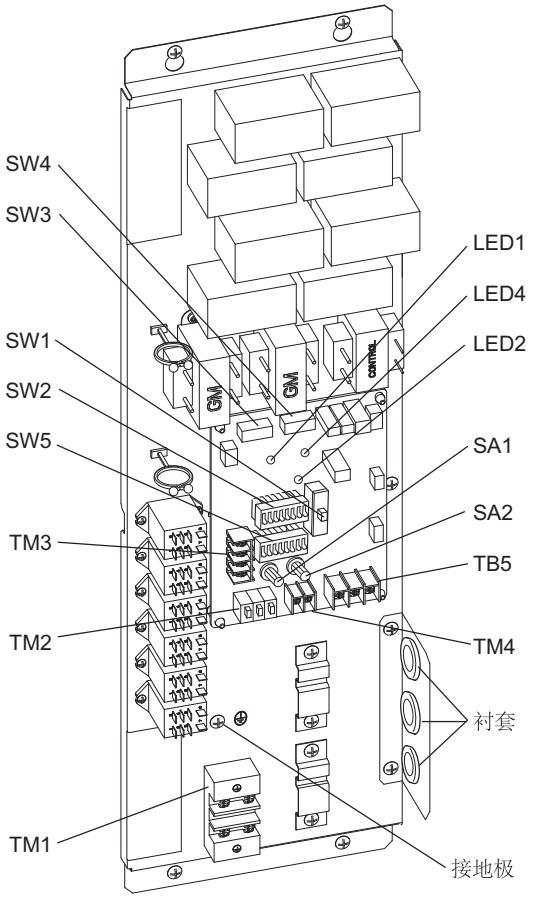
LGH-15, 25, 35, 50, 65RX4-C2



LGH-80, 100RX4-C2

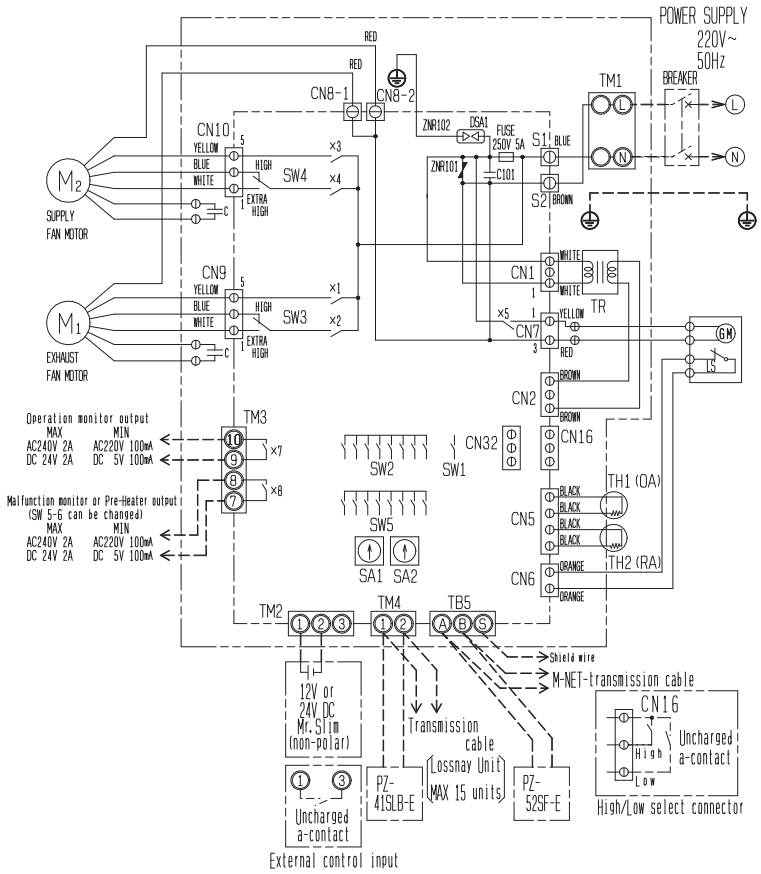


LGH-150, 200RX4-C2

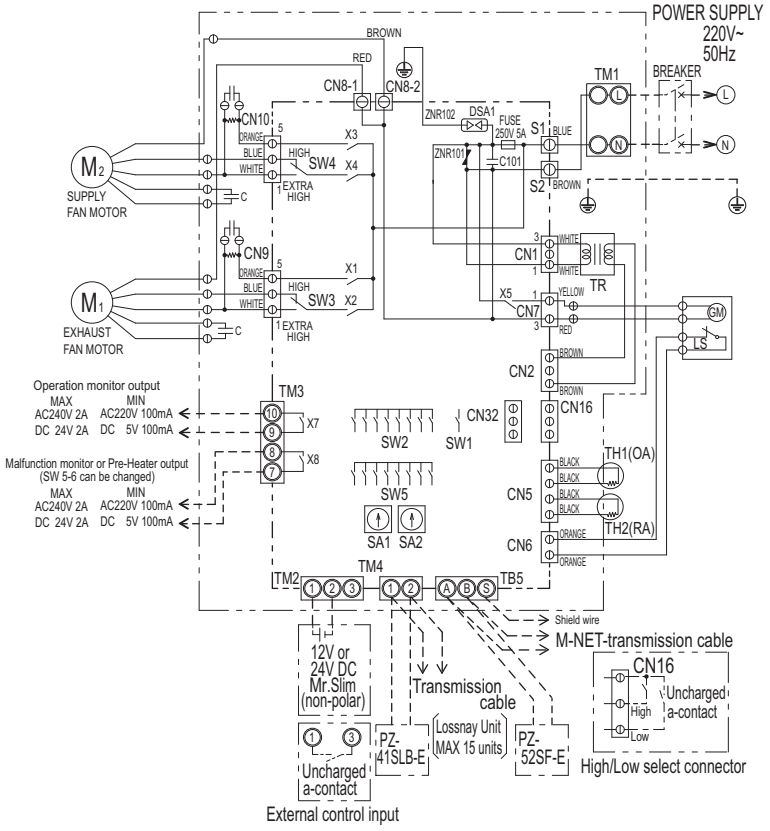


LOSSNAY

LGH-15, 25, 35, 50, 65RX4-C2



LGH-80, 100RX4-C2



NOTE

1. TM1, TM2, TM3, TM4, TB5 shown in dotted lines are field work.
2. Breaker should be provided by the customer.
3. Be sure to connect the grounding wire.

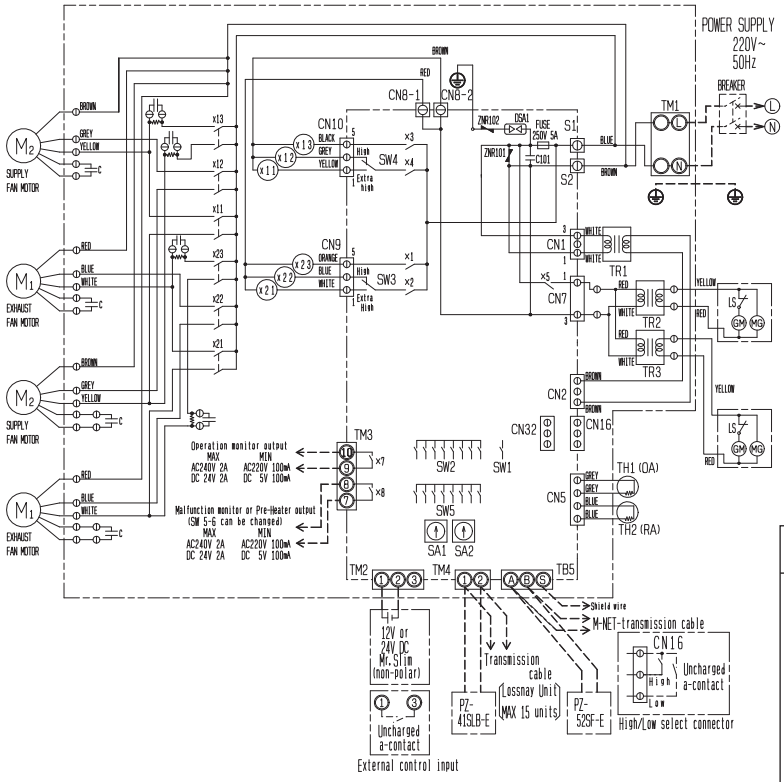
*Attention

1. This must be used with Mitsubishi Electric Air-Conditioner Network System. (MELANS)
2. External control input (TM2) is impossible to use on the Lossnay addressed to “Sub” (SW1) unit.
3. PZ-41SLB-E and PZ-52SF-E cannot be used simultaneously.

Symbol explanation

M1:	Motor for exhaust fan
M2:	Motor for supply fan
C:	Capacitor
GM:	Motor for Bypass movement
LS:	Microswitch
TH1:	Thermistor for outside air
TH2:	Thermistor for return air
SW1:	Switch (Main/Sub change)
SW2, 5:	Switch (Function selection)
SW3:	High/E. high select switch (Exhaust fan)
SW4:	High/E. high select switch (Supply fan)
TM1:	Terminal block (Power supply)
TM2:	Terminal block (Transmission cable and external control input)
TM3:	Terminal block (Monitor output)
TM4:	Terminal block (Transmission cable)
*1TB5:	Terminal block (M-NET Transmission cable)
S1, S2:	Connector (Power supply)
TR:	Control circuit transformer
X7:	Relay contact (For operation monitor output)
X8:	Relay contact (For malfunction monitor output)
CN1:	Connector (Transformer primary)
CN2:	Connector (Transformer secondary)
CN5:	Connector (Thermistor)
CN6:	Connector (Microswitch)
CN7:	Connector (Motor for Bypass operation)
CN8-1:	Tab connector (Fan motor)
CN8-2:	Tab connector (Fan motor)
CN9:	Connector (Fan motor)
CN10:	Connector (Fan motor)
CN16:	Connector (High/Low switch)
CN32:	Connector (Remote control selection)
*1SA1:	Address setting rotary switch (10 digit)
*1SA2:	Address setting rotary switch (1 digit)
MARK	◎ : Indicates terminal block ◯ : Connector ▣ : Board insertion connector or fastening connector of control board

LGH-150, 200RX4-C2



NOTE

1. TM1, TM2, TM3, TM4, TB5 shown in dotted lines are field work.
2. Breaker should be provided by the customer.
3. Be sure to connect the grounding wire.

*Attention

1. This must be used with Mitsubishi Electric Air-Conditioner Network System. (MELANS)
2. External control input (TM2) is impossible to use on the Lossnay addressed to “Sub” (SW1) unit.
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Symbol explanation

M1:	Motor for exhaust fan
M2:	Motor for supply fan
C:	Capacitor
GM:	Motor for Bypass movement
LS:	Microswitch
TH1:	Thermistor for outside air
TH2:	Thermistor for return air
SW1:	Switch (Main/Sub change)
SW2, 5:	Switch (Function selection)
SW3:	High/E. high select switch (Exhaust fan)
SW4:	High/E. high select switch (Supply fan)
TM1:	Terminal block (Power supply)
TM2:	Terminal block (Transmission cable and external control input)
TM3:	Terminal block (Monitor output)
TM4:	Terminal block (Transmission cable)
*1TB5:	Terminal block (M-NET Transmission cable)
S1, S2:	Connector (Power supply)
TR:	Control circuit transformer
X7:	Relay contact (For operation monitor output)
X8:	Relay contact (For malfunction monitor output)
CN1:	Connector (Transformer primary)
CN2:	Connector (Transformer secondary)
CN5:	Connector (Thermistor)
CN6:	Connector (Microswitch)
CN7:	Connector (Motor for Bypass operation)
CN8-1:	Tab connector (Fan motor)
CN8-2:	Tab connector (Fan motor)
CN9:	Connector (Fan motor)
CN10:	Connector (Fan motor)
CN16:	Connector (High/Low switch)
CN32:	Connector (Remote control selection)
*1SA1:	Address setting rotary switch (10 digit)
*1SA2:	Address setting rotary switch (1 digit)
MARK	◎ : Indicates terminal block
	ⓘ : Connector
	ⓟ : Board insertion connector or fastening connector of control board

LOSSNAY

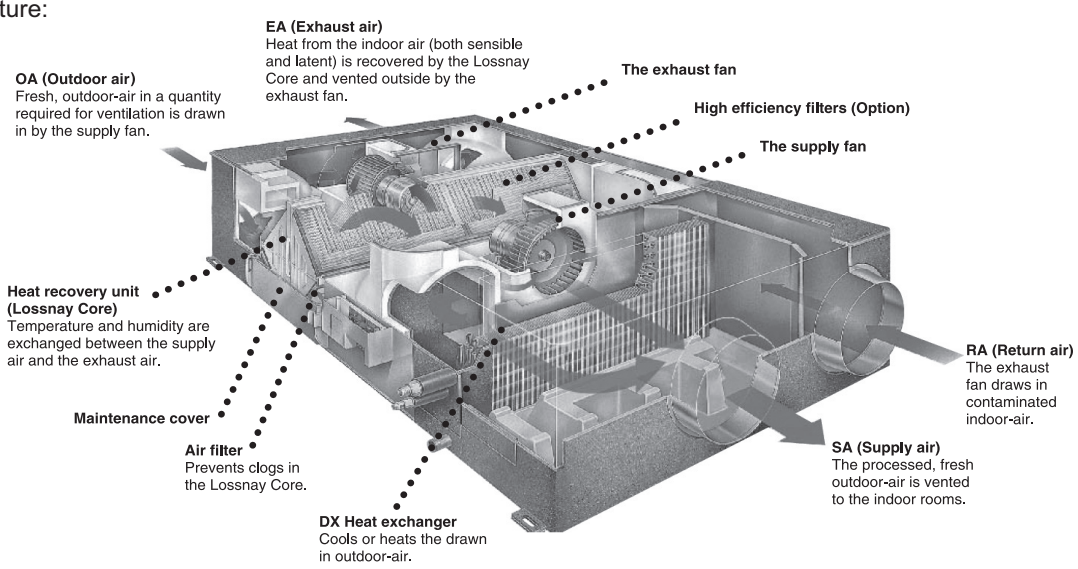
GUF-RDH3

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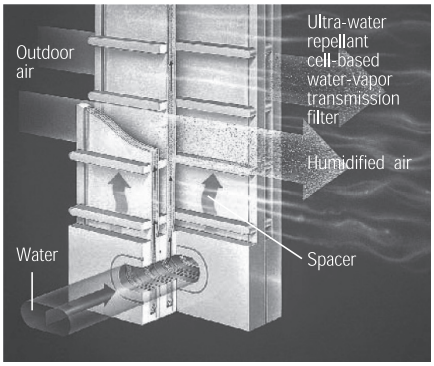
OA Processing unit

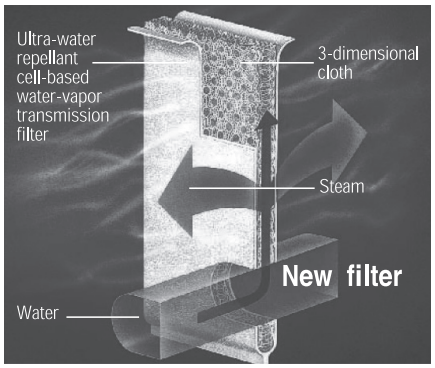
OA Processing unit GUF-RDH3 combines the characteristics of LOSSNAY and air conditioning function of indoor unit, offers perfect air conditioning in which fresh outdoor air, humidity, temperature adjustment are all considered.
Moreover, GUF-RDH3 realizes the air conditioning solution at the most energy saving method.

GUF Structure:

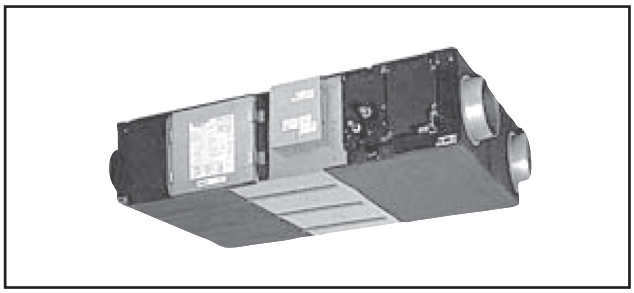


Permeable Film Humidifier (GUF-RDH Model)





Line up of OA Processing units



GUF-50RDH3 500m3/h 1-phase 220-240V 50Hz

1. SPECIFICATIONS

Model			GUF-50RDH3
Power source			1-phase 220-240V 50Hz
Cooling capacity *1		kW	5.46 <1.83>
Figure in < > is the recovery *1		kcal / h	4,700 <1,600>
capacity by LOSSNAY core. *1		BTU / h	18,600 <6,200>
*2		kcal / h	4,500 <1,400>
	Power input	W	235-265
	Current input	A	1.15
Heating capacity *3		kW	6.18 <2.01>
Figure in < > is the recovery *3		kcal / h	5,300 <1,700>
capacity by LOSSNAY core. *3		BTU / h	21,100 <6,900>
	Power input	W	235-265
	Current input	A	1.15
Capacity equivalent to indoor unit			P32
Humidifying capacity		kg / h	2.7
		lbs / h	6.0
	Humidifier		**Permeable film humidifier**
External finish			**Galvanized, with grey insulation sheet**
External dimension H x W x D		mm	317 x 1,016 x 1,288
		in.	12-1/2" x 40" x 50-3/4"
Net weight		kg (lbs)	57 (126)
Heat exchanger	LOSSNAY core		Partition, Cross-flow structure, Special preserved paper-plate.
	Refrigerant coil		Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		SA: Centrifugal fan (Sirocco fan) x 1
			EA: Centrifugal fan (Sirocco fan) x 1
	External static press.	Pa	125
		mmH_2O	12.7
	Motor type		Totally enclosed capacitor permanent split-phase induction motor, 4 poles, 2units
	Motor output	kW	-
	Driving mechanism		Direct-driven by motor
	Airflow rate (High value)	m^3 / h	500
		L / s	139
		cfm	294
Noise level (Low-High) (measured in anechoic room)		dB <A>	33.5-34.5
Insulation material			Polyester sheet
Air filter	Supplying air		Non-woven fabrics filter (Gravitational method 82%) & Optional part: High efficiency filter (Colorimetric method 65%)
	Exhausting air		Non-woven fabrics filter (Gravitational method 82%)
Protection device			Fuse
Refrigerant control device			LEV
Connectable outdoor unit			R410A CITY MULTI (Except for PUMY series)
Diameter of refrigerant pipe	Liquid	mm (in.)	ø6.35 (ø1/4") Flare
	Gas	mm (in.)	ø12.7 (ø1/2") Flare
Field drain pipe size		mm (in.)	Socket(I.D. 25mm (1"))+O.D. 32mm (1-1/4")
Drawing	External		GUF-ext-rdH3
	Wiring		GUF-wir-rdH3
	Refrigerant cycle		-
Standard attachment	Document		Installation Manual, Instruction Book
	Accessory		
Remark	Optional parts		High efficiency filter: PZ-50RFM
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.

Note :

	*1 Nominal cooling conditions	*2 Nominal cooling conditions	*3 Nominal heating conditions
Indoor :	27°CDB/19°CWB (81°FDB/66°FWB)	27°CDB/19.5°CWB (81°FDB/67°FWB)	20°CDB (68°FDB)
Outdoor :	35°CDB (95°FDB)	35°CDB (95°FDB)	7°CDB/6°CWB (45°FDB/43°FWB)
Pipe length :	7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)
Level difference :	0 m (0 ft)	0 m (0 ft)	0 m (0 ft)

* Sound level details refer to 2. SOUND LEVELS.
* Nominal conditions *1, *3 are subject to JIS B8615-1.
* Due to continuing improvement, above specification may be subject to change without notice.

Unit converter

kcal/h = kW x 860
BTU/h = kW x 3,412
cfm = m^3/min x 35.31
lbs = kg / 0.4536

*Above specification data is subject to rounding variation.

OA Processing unit

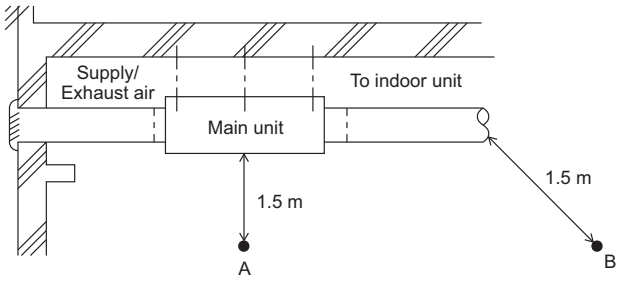
2. SOUND LEVELS

2-1. Measurement Condition

Measurement site:

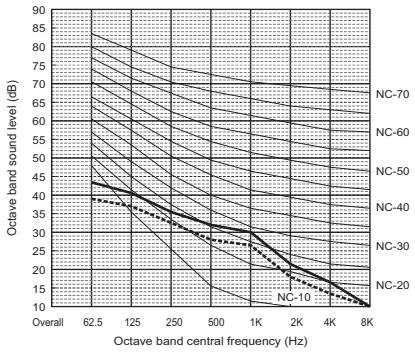
Mitsubishi Electric Co.,
Nakatsugawa Works
Anechoic chamber

<Ceiling recessed type>

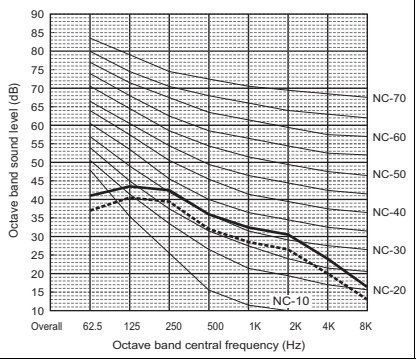


2-2. NC curves

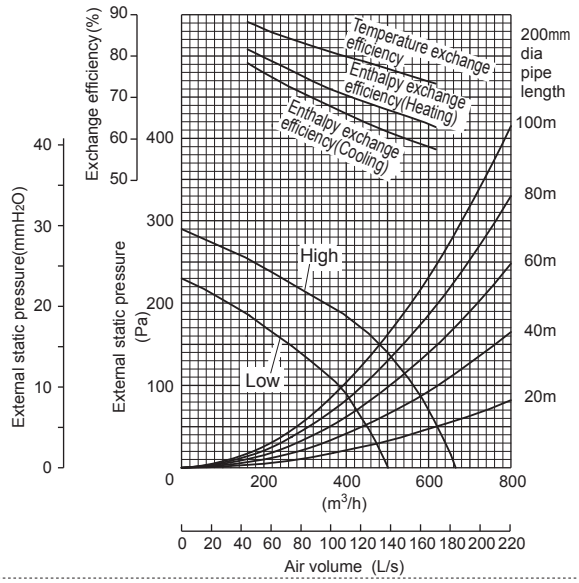
GUF-50RDH3
Directly below
(Measurement point A)



GUF-50RDH3
Outlet
(Measurement point B)

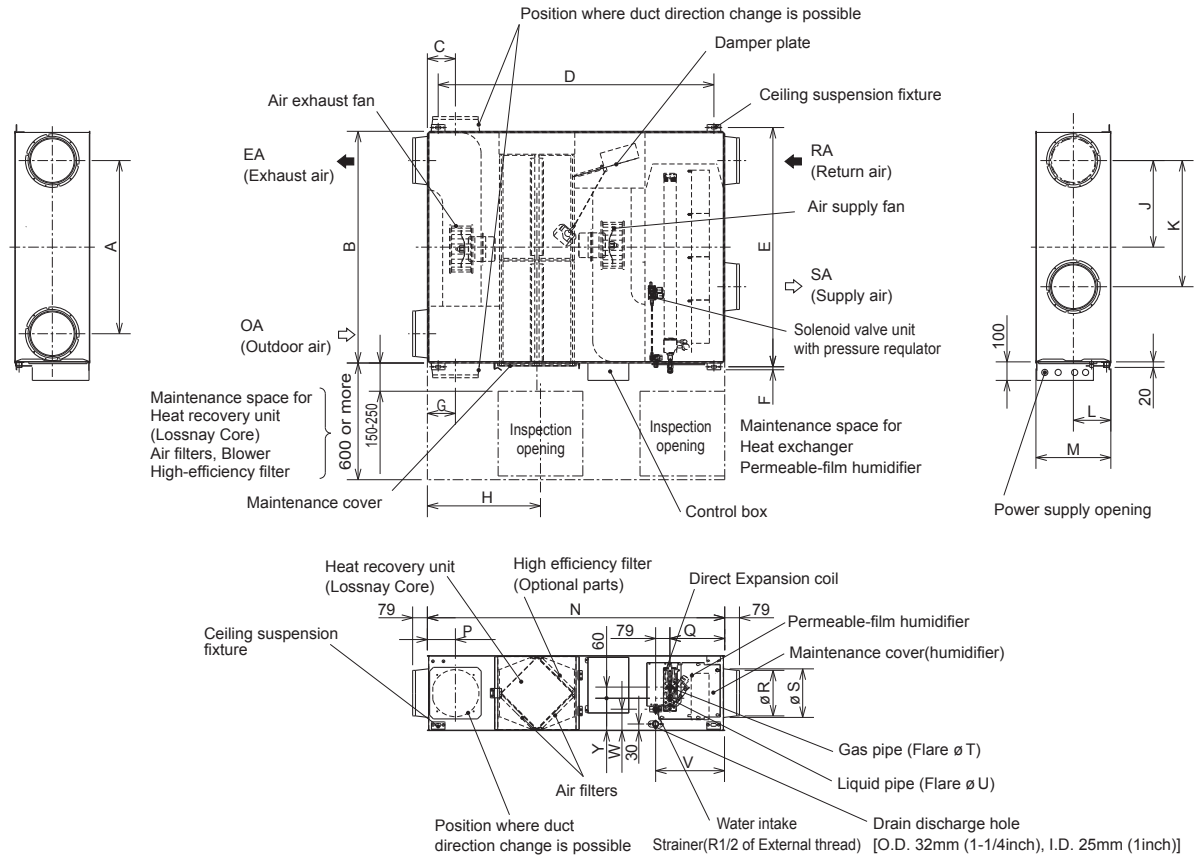


GUF-50RDH3
Humidifying Type



GUF-50RDH3

Unit : mm

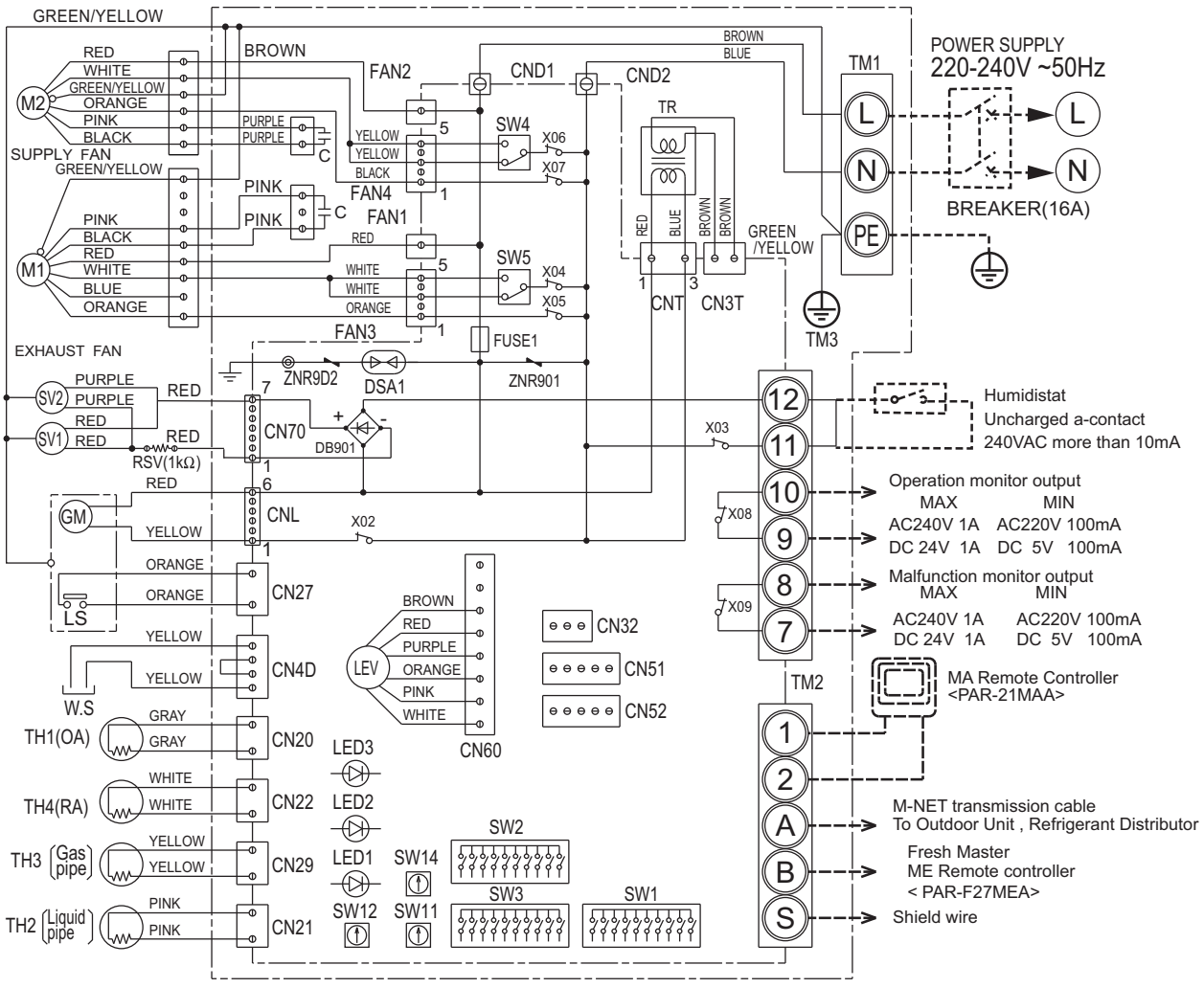


Model	A	B	C	D	E	F	G	H	J	K	L
GUF-50RDH3	745	1,016	124	1,185	1,048	22	124	450	372.5	435	158.5
Model	**M**	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**Y**
GUF-50RDH3	317	1,288	124	266	192	208	12.7	6.35	347	99	135

OA Processing unit

GUF-50RDH3

TM1, TM2 shown in dotted lines are field work.
Be sure to connect the grounding wire.
Breakers and controller switches should be provided by the customer.



MARK ◎ : indicates terminal block, ⊕ : connector
⊕ : board insertion connector or fastening connector of control board.

Symbol Explanation

Symbol	Name	Symbol	Name	Symbol	Name
M1	Fan motor (exhaust)	TM1	Terminal block (power supply)	1, 2	Remote control terminal
M2	Fan motor (supply)	TM2	Terminal block (transmission)	A, B	M-NET transmission terminal
C	Capacitor	TM3	Terminal block (humidistat, monitor)	S	Shield
W.S	Water sensor	SW1	Switch (function selection)	CND1, CND2	Connector (power supply)
SV1	Solenoid valve (pressure regulator)	SW2	Switch (capacity code setting)	X02-X09	Relay
SV2	Solenoid valve (exhaust)	SW3	Switch (function selection)	TR	Transformer
TH1	Thermistor (outdoor air temp. detection)	SW4,SW5	Switch	GM	Damper motor
TH2	Thermistor (pipe temp. detection/liquid)	SW11	Switch (1st digit address set)	LS	Limit switch
TH3	Thermistor (pipe temp. detection/gas)	SW12	Switch (2nd digit address set)	LED1	Power supply monitor
TH4	Thermistor (room air temp. detection)	SW14	Switch (branch NO. set)	LED2	MA Remote controller
LEV	Electronic linear expansion valve	CN32	Connecter (Remote input)		Power supply monitor
RSV	Resistance (solenoid valve)	CN51,CN52	Connecter (Remote input/output)	LED3	M-NET Power supply monitor

OA Processing unit

Capacity Table

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1-2. Cooling capacity with PUMY-P200-250YKMC-C ..... 1 - 126
1-3. Cooling capacity with PUHY-P300YRJC-A ..... 1 - 128
1-4. Cooling capacity with PUHY-P350-400YRJC-A ..... 1 - 130
1-5. Cooling capacity with PUHY-P450YRJC-A ..... 1 - 132
2. Cooling [Ceiling concealed (Middle static pressure type)] ..... 1 - 134
2-1. Cooling capacity with PUMY-P100-140YHMC-C/VHMC-S ..... 1 - 134
2-2. Cooling capacity with PUMY-P200-250YKMC-C ..... 1 - 138
2-3. Cooling capacity with PUHY-P300YRJC-A ..... 1 - 142
2-4. Cooling capacity with PUHY-P350-400YRJC-A ..... 1 - 146
2-5. Cooling capacity with PUHY-P450YRJC-A ..... 1 - 150
3. Cooling [Ceiling cassette (1-way flow type)] ..... 1 - 154
3-1. Cooling capacity with PUMY-P100-140YHMC-C/VHMC-S ..... 1 - 154
3-2. Cooling capacity with PUMY-P200-250YKMC-C ..... 1 - 155
3-3. Cooling capacity with PUHY-P300YRJC-A ..... 1 - 156
3-4. Cooling capacity with PUHY-P350-400YRJC-A ..... 1 - 157
3-5. Cooling capacity with PUHY-P450YRJC-A ..... 1 - 158
4. Cooling [Ceiling cassette (4-way flow type)] ..... 1 - 159
4-1. Cooling capacity with PUMY-P100-140YHMC-C/VHMC-S ..... 1 - 159
4-2. Cooling capacity with PUMY-P200-250YKMC-C ..... 1 - 160
4-3. Cooling capacity with PUHY-P300YRJC-A ..... 1 - 161
4-4. Cooling capacity with PUHY-P350-400YRJC-A ..... 1 - 162
4-5. Cooling capacity with PUHY-P450YRJC-A ..... 1 - 163
5. Cooling [Wall mounted] ..... 1 - 164
5-1. Cooling capacity with PUMY-P100-140YHMC-C/VHMC-S ..... 1 - 164
5-2. Cooling capacity with PUMY-P200-250YKMC-C ..... 1 - 165
5-3. Cooling capacity with PUHY-P300YRJC-A ..... 1 - 166
5-4. Cooling capacity with PUHY-P350-400YRJC-A ..... 1 - 167
5-5. Cooling capacity with PUHY-P450YRJC-A ..... 1 - 168
6. Heating [All indoor units] ..... 1 - 169
6-1. Heating capacity with PUMY-P100-140YHMC-C/VHMC-S ..... 1 - 169
6-2. Heating capacity with PUMY-P200-250YKMC-C ..... 1 - 171
6-3. Heating capacity with PUHY-P300YRJC-A ..... 1 - 173
6-4. Heating capacity with PUHY-P350-400YRJC-A ..... 1 - 175
6-5. Heating capacity with PUHY-P450YRJC-A ..... 1 - 177
6-6. Heating capacity with PUHY-P300YRJC-A "COP priority mode" ..... 1 - 179
6-7. Heating capacity with PUHY-P350-400YRJC-A "COP priority mode" ..... 1 - 181
6-8. Heating capacity with PUHY-P450YRJC-A "COP priority mode" ..... 1 - 183

1-1. Cooling capacity with PUMY-P100-140YHMC-C/VHMC-S

CT

PEFY-P-VMS-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	22.5	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	25.0	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.0	1.6
	27.5	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	30.0	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	32.5	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	35.0	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	37.5	1.4	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.8	1.6	1.9	1.5
	40.0	1.4	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.8	1.5	1.9	1.5
	43.0	1.4	1.4	1.5	1.4	1.6	1.4	1.6	1.6	1.7	1.5	1.8	1.5	1.9	1.5
	46.0	1.3	1.3	1.4	1.4	1.6	1.4	1.6	1.5	1.6	1.5	1.8	1.5	1.9	1.5
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.3	1.8	2.4	2.0	2.4	2.0	2.6	1.9	2.7	1.9
	22.5	2.0	1.8	2.1	1.8	2.3	1.8	2.3	2.0	2.4	1.9	2.6	1.9	2.7	1.9
	25.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.9
	30.0	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	32.5	1.9	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.8
	35.0	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.8
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.2	1.9	2.4	1.9	2.5	1.8
	40.0	1.8	1.7	1.9	1.8	2.1	1.7	2.1	1.9	2.2	1.9	2.4	1.8	2.5	1.8
	43.0	1.8	1.6	1.9	1.7	2.1	1.7	2.1	1.9	2.2	1.8	2.3	1.8	2.4	1.8
	46.0	1.7	1.6	1.9	1.7	2.0	1.7	2.1	1.8	2.1	1.8	2.3	1.8	2.4	1.8
22 (2.5)	20.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.1
	22.5	2.3	2.0	2.4	2.1	2.6	2.0	2.7	2.2	2.7	2.2	2.9	2.2	3.0	2.1
	25.0	2.3	2.0	2.4	2.1	2.6	2.0	2.6	2.2	2.7	2.2	2.9	2.1	3.0	2.1
	27.5	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.8	2.1	3.0	2.1
	30.0	2.2	1.9	2.4	2.0	2.5	2.0	2.6	2.2	2.6	2.1	2.8	2.1	2.9	2.1
	32.5	2.2	1.9	2.3	2.0	2.5	2.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.1
	35.0	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.1	2.9	2.1
	37.5	2.1	1.9	2.2	2.0	2.4	2.0	2.5	2.1	2.5	2.1	2.7	2.1	2.9	2.0
	40.0	2.1	1.9	2.2	2.0	2.4	2.0	2.4	2.1	2.5	2.1	2.7	2.1	2.8	2.0
	43.0	2.0	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.4	2.1	2.6	2.1	2.8	2.0
	46.0	2.0	1.8	2.1	1.9	2.3	1.9	2.3	2.1	2.4	2.0	2.6	2.0	2.7	2.0
25 (2.8)	20.0	2.6	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.4	2.2
	22.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.2	2.3	3.4	2.2
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	27.5	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.3	2.2
	30.0	2.5	2.1	2.6	2.2	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.3	2.2
	32.5	2.5	2.0	2.6	2.1	2.8	2.1	2.8	2.3	2.9	2.3	3.1	2.2	3.3	2.2
	35.0	2.4	2.0	2.6	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.2
	37.5	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.8	2.2	3.0	2.2	3.2	2.2
	40.0	2.3	2.0	2.5	2.1	2.7	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.1
	43.0	2.3	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.7	2.2	3.0	2.2	3.1	2.1
	46.0	2.2	1.9	2.4	2.0	2.6	2.0	2.6	2.2	2.7	2.2	2.9	2.2	3.1	2.1
28 (3.2)	20.0	3.0	2.4	3.2	2.5	3.3	2.5	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.5
	22.5	3.0	2.4	3.1	2.5	3.3	2.4	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.5
	25.0	2.9	2.4	3.1	2.5	3.3	2.4	3.4	2.6	3.5	2.6	3.7	2.5	3.9	2.5
	27.5	2.9	2.3	3.1	2.4	3.2	2.4	3.3	2.6	3.4	2.6	3.6	2.5	3.8	2.5
	30.0	2.9	2.3	3.0	2.4	3.2	2.4	3.3	2.6	3.4	2.5	3.6	2.5	3.8	2.5
	32.5	2.8	2.3	3.0	2.4	3.2	2.4	3.3	2.5	3.3	2.5	3.6	2.5	3.7	2.4
	35.0	2.8	2.3	2.9	2.4	3.1	2.4	3.2	2.5	3.3	2.5	3.5	2.5	3.7	2.4
	37.5	2.7	2.3	2.9	2.4	3.1	2.4	3.2	2.5	3.2	2.5	3.5	2.5	3.7	2.4
	40.0	2.7	2.2	2.8	2.3	3.0	2.3	3.1	2.5	3.2	2.5	3.4	2.5	3.6	2.4
	43.0	2.6	2.2	2.8	2.3	3.0	2.3	3.1	2.5	3.1	2.4	3.4	2.4	3.6	2.4
	46.0	2.5	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
32 (3.6)	20.0	3.4	2.6	3.6	2.7	3.7	2.6	3.9	2.8	4.0	2.8	4.2	2.7	4.4	2.7
	22.5	3.3	2.6	3.5	2.7	3.7	2.6	3.8	2.8	4.0	2.8	4.2	2.7	4.4	2.7
	25.0	3.3	2.5	3.5	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.1	2.7	4.3	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.9	2.7	4.1	2.7	4.3	2.6
	30.0	3.2	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.2	2.6
	32.5	3.2	2.5	3.3	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.0	2.7	4.2	2.6
	35.0	3.1	2.4	3.3	2.6	3.5	2.5	3.6	2.7	3.7	2.7	4.0	2.6	4.2	2.6
	37.5	3.1	2.4	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.6	3.9	2.6	4.1	2.6
	40.0	3.0	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.9	2.6	4.1	2.6
	43.0	2.9	2.4	3.1	2.5	3.4	2.5	3.4	2.6	3.5	2.6	3.8	2.6	4.0	2.5
	46.0	2.9	2.3	3.0	2.4	3.3	2.4	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.5
36 (4.0)	20.0	3.8	2.9	4.0	3.0	4.2	3.0	4.3	3.2	4.4	3.1	4.7	3.1	4.9	3.0
	22.5	3.7	2.9	3.9	3.0	4.1	3.0	4.3	3.1	4.4	3.1	4.6	3.1	4.9	3.0
	25.0	3.7	2.9	3.9	3.0	4.1	2.9	4.2	3.1	4.3	3.1	4.6	3.1	4.8	3.0
	27.5	3.6	2.8	3.8	3.0	4.0	2.9	4.2	3.1	4.3	3.1	4.5	3.0	4.8	3.0
	30.0	3.6	2.8	3.8	2.9	4.0	2.9	4.1	3.1	4.2	3.1	4.5	3.0	4.7	3.0
	32.5	3.5	2.8	3.7	2.9	4.0	2.9	4.1	3.1	4.2	3.0	4.5	3.0	4.7	2.9
	35.0	3.5	2.8	3.7	2.9	3.9	2.9	4.0	3.0	4.1	3.0	4.4	3.0	4.6	2.9
	37.5	3.4	2.7	3.6	2.9	3.9	2.8	4.0	3.0	4.1	3.0	4.3	3.0	4.6	2.9
	40.0	3.3	2.7	3.5	2.8	3.8	2.8	3.9	3.0	4.0	3.0	4.3	3.0	4.5	2.9
	43.0	3.3	2.7	3.5	2.8	3.7	2.8	3.8	3.0	3.9	2.9	4.2	2.9	4.4	2.9
	46.0	3.2	2.6	3.4	2.8	3.7	2.8	3.8	2.9	3.8	2.9	4.2	2.9	4.4	2.8

kcal/h=kW x 860 , BTU/h = kW x 3,412

1. Cooling [Ceiling concealed (Slim type)]

PEFY-P-VMS-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.2	3.1	4.4	3.3	4.7	3.2	4.8	3.4	5.0	3.4	5.3	3.3	5.5	3.3
	22.5	4.2	3.1	4.4	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.2	3.3	5.5	3.2
	25.0	4.1	3.1	4.3	3.2	4.6	3.2	4.7	3.4	4.9	3.3	5.2	3.3	5.4	3.2
	27.5	4.1	3.1	4.3	3.2	4.5	3.1	4.7	3.3	4.8	3.3	5.1	3.3	5.4	3.2
	30.0	4.0	3.0	4.2	3.2	4.5	3.1	4.6	3.3	4.8	3.3	5.1	3.2	5.3	3.2
	32.5	4.0	3.0	4.2	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.0	3.2	5.3	3.2
	35.0	3.9	3.0	4.1	3.1	4.4	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.2	3.1
	37.5	3.8	2.9	4.0	3.1	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	40.0	3.8	2.9	4.0	3.0	4.3	3.0	4.4	3.2	4.5	3.2	4.8	3.2	5.1	3.1
	43.0	3.7	2.8	3.9	3.0	4.2	3.0	4.3	3.2	4.4	3.1	4.8	3.1	5.0	3.1
	46.0	3.6	2.8	3.8	2.9	4.1	3.0	4.2	3.1	4.3	3.1	4.7	3.1	4.9	3.0
45 (5.0)	20.0	4.7	3.7	4.9	3.8	5.2	3.8	5.4	4.0	5.5	4.0	5.9	4.0	6.1	3.9
	22.5	4.7	3.7	4.9	3.8	5.2	3.8	5.3	4.0	5.5	4.0	5.8	3.9	6.1	3.9
	25.0	4.6	3.6	4.8	3.8	5.1	3.8	5.3	4.0	5.4	4.0	5.7	3.9	6.0	3.8
	27.5	4.5	3.6	4.8	3.8	5.1	3.7	5.2	4.0	5.4	3.9	5.7	3.9	6.0	3.8
	30.0	4.5	3.6	4.7	3.7	5.0	3.7	5.1	3.9	5.3	3.9	5.6	3.9	5.9	3.8
	32.5	4.4	3.6	4.6	3.7	4.9	3.7	5.1	3.9	5.2	3.9	5.6	3.8	5.8	3.8
	35.0	4.3	3.5	4.6	3.7	4.9	3.7	5.0	3.9	5.2	3.9	5.5	3.8	5.8	3.8
	37.5	4.3	3.5	4.5	3.6	4.8	3.6	4.9	3.9	5.1	3.8	5.4	3.8	5.7	3.7
	40.0	4.2	3.4	4.4	3.6	4.8	3.6	4.9	3.8	5.0	3.8	5.4	3.8	5.6	3.7
	43.0	4.1	3.4	4.3	3.6	4.7	3.6	4.8	3.8	4.9	3.8	5.3	3.7	5.6	3.7
	46.0	4.0	3.3	4.2	3.5	4.6	3.5	4.7	3.8	4.8	3.7	5.2	3.7	5.5	3.7
50 (5.6)	20.0	5.3	4.0	5.5	4.1	5.8	4.1	6.0	4.3	6.2	4.3	6.6	4.2	6.9	4.1
	22.5	5.2	3.9	5.5	4.1	5.8	4.0	6.0	4.3	6.1	4.3	6.5	4.2	6.8	4.1
	25.0	5.2	3.9	5.4	4.1	5.7	4.0	5.9	4.3	6.1	4.2	6.4	4.2	6.7	4.1
	27.5	5.1	3.9	5.3	4.0	5.7	4.0	5.8	4.2	6.0	4.2	6.4	4.2	6.7	4.1
	30.0	5.0	3.8	5.3	4.0	5.6	4.0	5.8	4.2	5.9	4.2	6.3	4.1	6.6	4.0
	32.5	4.9	3.8	5.2	4.0	5.5	3.9	5.7	4.2	5.9	4.1	6.2	4.1	6.5	4.0
	35.0	4.9	3.8	5.1	3.9	5.5	3.9	5.6	4.1	5.8	4.1	6.2	4.1	6.5	4.0
	37.5	4.8	3.7	5.0	3.9	5.4	3.9	5.5	4.1	5.7	4.1	6.1	4.0	6.4	4.0
	40.0	4.7	3.7	4.9	3.9	5.3	3.8	5.5	4.1	5.6	4.0	6.0	4.0	6.3	3.9
	43.0	4.6	3.6	4.8	3.8	5.2	3.8	5.4	4.0	5.5	4.0	5.9	4.0	6.2	3.9
	46.0	4.4	3.6	4.7	3.7	5.2	3.8	5.3	4.0	5.4	3.9	5.8	3.9	6.1	3.9
56 (6.3)	20.0	5.9	4.7	6.2	4.9	6.6	4.8	6.8	5.1	7.0	5.1	7.4	5.0	7.7	4.9
	22.5	5.9	4.7	6.2	4.9	6.5	4.8	6.7	5.1	6.9	5.1	7.3	5.0	7.7	4.9
	25.0	5.8	4.6	6.1	4.8	6.4	4.8	6.6	5.1	6.8	5.0	7.2	5.0	7.6	4.9
	27.5	5.7	4.6	6.0	4.8	6.4	4.7	6.6	5.0	6.8	5.0	7.2	5.0	7.5	4.9
	30.0	5.6	4.6	5.9	4.8	6.3	4.7	6.5	5.0	6.7	5.0	7.1	4.9	7.4	4.8
	32.5	5.6	4.5	5.8	4.7	6.2	4.7	6.4	5.0	6.6	4.9	7.0	4.9	7.4	4.8
	35.0	5.5	4.5	5.8	4.7	6.1	4.6	6.3	4.9	6.5	4.9	6.9	4.9	7.3	4.8
	37.5	5.4	4.4	5.7	4.6	6.1	4.6	6.2	4.9	6.4	4.9	6.8	4.8	7.2	4.7
	40.0	5.3	4.4	5.6	4.6	6.0	4.6	6.1	4.9	6.3	4.8	6.8	4.8	7.1	4.7
	43.0	5.1	4.3	5.4	4.5	5.9	4.5	6.0	4.8	6.2	4.8	6.7	4.8	7.0	4.7
	46.0	5.0	4.3	5.3	4.5	5.8	4.5	5.9	4.8	6.0	4.7	6.5	4.7	6.9	4.6
63 (7.1)	20.0	6.7	5.0	7.0	5.3	7.4	5.2	7.6	5.5	7.9	5.5	8.3	5.4	8.7	5.3
	22.5	6.6	5.0	6.9	5.2	7.3	5.2	7.6	5.5	7.8	5.4	8.2	5.4	8.6	5.2
	25.0	6.5	5.0	6.9	5.2	7.2	5.1	7.5	5.4	7.7	5.4	8.2	5.3	8.5	5.2
	27.5	6.5	4.9	6.8	5.1	7.2	5.1	7.4	5.4	7.6	5.4	8.1	5.3	8.5	5.2
	30.0	6.4	4.9	6.7	5.1	7.1	5.1	7.3	5.4	7.5	5.3	8.0	5.3	8.4	5.1
	32.5	6.3	4.8	6.6	5.1	7.0	5.0	7.2	5.3	7.4	5.3	7.9	5.2	8.3	5.1
	35.0	6.2	4.8	6.5	5.0	6.9	5.0	7.1	5.3	7.3	5.2	7.8	5.2	8.2	5.1
	37.5	6.1	4.7	6.4	5.0	6.8	4.9	7.0	5.2	7.2	5.2	7.7	5.2	8.1	5.1
	40.0	5.9	4.7	6.3	4.9	6.8	4.9	6.9	5.2	7.1	5.2	7.6	5.1	8.0	5.0
	43.0	5.8	4.6	6.1	4.8	6.6	4.9	6.8	5.1	6.9	5.1	7.5	5.1	7.9	5.0
	46.0	5.6	4.5	6.0	4.8	6.5	4.8	6.7	5.1	6.8	5.0	7.4	5.0	7.8	4.9

kcal/h=kW x 860 , BTU/h = kW x 3,412

1-2. Cooling capacity with PUMY-P200-250YKMC-C

PEFY-P-VMS-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.7	1.9	1.6	2.1	1.6	2.1	1.6
	22.5	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	25.0	1.6	1.4	1.6	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	27.5	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.0	1.6
	30.0	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.0	1.6
	32.5	1.5	1.4	1.5	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	35.0	1.4	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	37.5	1.4	1.4	1.5	1.4	1.6	1.4	1.7	1.6	1.7	1.6	1.9	1.6	1.9	1.5
	40.0	1.4	1.4	1.4	1.4	1.5	1.4	1.6	1.6	1.7	1.5	1.8	1.5	1.9	1.5
	43.0	1.3	1.3	1.4	1.4	1.5	1.4	1.6	1.5	1.6	1.5	1.8	1.5	1.8	1.5
	46.0	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.7	1.5	1.8	1.5
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.4	1.9	2.4	2.0	2.5	2.0	2.7	2.0	2.8	1.9
	22.5	2.1	1.8	2.2	1.8	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.7	1.9
	25.0	2.0	1.8	2.1	1.8	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	2.0	2.6	1.9	2.6	1.9
	30.0	2.0	1.7	2.0	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.9
	32.5	1.9	1.7	2.0	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.8
	35.0	1.8	1.7	1.9	1.7	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.8
	37.5	1.8	1.7	1.9	1.7	2.1	1.7	2.2	1.9	2.2	1.9	2.4	1.9	2.5	1.8
	40.0	1.8	1.6	1.8	1.7	2.0	1.7	2.1	1.9	2.2	1.9	2.4	1.8	2.4	1.8
	43.0	1.7	1.6	1.8	1.7	1.9	1.7	2.0	1.8	2.1	1.8	2.3	1.8	2.4	1.8
	46.0	1.6	1.6	1.7	1.6	1.8	1.6	1.9	1.8	2.0	1.8	2.2	1.8	2.3	1.8
22 (2.5)	20.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.2	3.1	2.1
	22.5	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.1
	25.0	2.3	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.1
	27.5	2.3	2.0	2.4	2.0	2.6	2.0	2.7	2.2	2.8	2.2	2.9	2.2	3.0	2.1
	30.0	2.2	1.9	2.3	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.9	2.1	3.0	2.1
	32.5	2.2	1.9	2.3	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.8	2.1	2.9	2.1
	35.0	2.1	1.9	2.2	2.0	2.4	2.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.1
	37.5	2.1	1.9	2.2	1.9	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.0
	40.0	2.0	1.8	2.1	1.9	2.3	1.9	2.4	2.1	2.5	2.1	2.7	2.1	2.8	2.0
	43.0	1.9	1.8	2.0	1.9	2.2	1.9	2.3	2.1	2.4	2.1	2.6	2.0	2.7	2.0
	46.0	1.8	1.8	1.9	1.8	2.1	1.9	2.2	2.0	2.3	2.0	2.5	2.0	2.6	2.0
25 (2.8)	20.0	2.7	2.1	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.4	3.4	2.3	3.5	2.3
	22.5	2.6	2.1	2.7	2.2	2.9	2.2	3.1	2.4	3.2	2.3	3.4	2.3	3.4	2.2
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.4	2.2
	27.5	2.5	2.1	2.6	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.4	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.1	2.3	3.2	2.3	3.3	2.2
	32.5	2.4	2.0	2.5	2.1	2.7	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.3	2.2
	35.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.3	3.1	2.2	3.2	2.2
	37.5	2.3	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.9	2.2	3.1	2.2	3.2	2.2
	40.0	2.2	1.9	2.3	2.0	2.5	2.0	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.1
	43.0	2.1	1.9	2.2	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.9	2.2	3.0	2.1
	46.0	2.0	1.9	2.1	1.9	2.4	2.0	2.5	2.1	2.5	2.1	2.8	2.1	2.9	2.1
28 (3.2)	20.0	3.0	2.4	3.2	2.5	3.4	2.5	3.6	2.7	3.6	2.6	3.9	2.6	4.0	2.5
	22.5	3.0	2.4	3.1	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.6	3.9	2.5
	25.0	2.9	2.4	3.1	2.5	3.3	2.5	3.5	2.6	3.6	2.6	3.8	2.6	3.9	2.5
	27.5	2.9	2.3	3.0	2.4	3.3	2.4	3.4	2.6	3.6	2.6	3.7	2.6	3.8	2.5
	30.0	2.8	2.3	2.9	2.4	3.2	2.4	3.4	2.6	3.5	2.6	3.7	2.5	3.8	2.5
	32.5	2.8	2.3	2.9	2.4	3.1	2.4	3.3	2.6	3.4	2.6	3.6	2.5	3.7	2.5
	35.0	2.7	2.2	2.8	2.3	3.1	2.3	3.2	2.5	3.4	2.5	3.6	2.5	3.7	2.4
	37.5	2.6	2.2	2.8	2.3	3.0	2.3	3.1	2.5	3.3	2.5	3.5	2.5	3.6	2.4
	40.0	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.5	3.2	2.5	3.4	2.4	3.6	2.4
	43.0	2.4	2.1	2.6	2.2	2.8	2.2	2.9	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	46.0	2.3	2.1	2.4	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.2	2.4	3.4	2.3
32 (3.6)	20.0	3.4	2.6	3.6	2.7	3.9	2.7	4.0	2.9	4.1	2.8	4.4	2.8	4.5	2.7
	22.5	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.1	2.8	4.3	2.8	4.4	2.7
	25.0	3.3	2.5	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.8	4.3	2.8	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.8	4.0	2.8	4.2	2.7	4.3	2.6
	30.0	3.2	2.5	3.3	2.6	3.6	2.6	3.8	2.8	3.9	2.8	4.1	2.7	4.3	2.6
	32.5	3.1	2.4	3.2	2.5	3.5	2.5	3.7	2.7	3.9	2.7	4.1	2.7	4.2	2.6
	35.0	3.0	2.4	3.2	2.5	3.5	2.5	3.6	2.7	3.8	2.7	4.0	2.7	4.1	2.6
	37.5	3.0	2.4	3.1	2.5	3.4	2.5	3.5	2.7	3.7	2.7	3.9	2.6	4.1	2.6
	40.0	2.9	2.3	3.0	2.4	3.3	2.4	3.4	2.6	3.6	2.6	3.9	2.6	4.0	2.5
	43.0	2.7	2.3	2.9	2.4	3.2	2.4	3.3	2.6	3.5	2.6	3.7	2.6	3.9	2.5
	46.0	2.6	2.2	2.7	2.3	3.0	2.3	3.2	2.5	3.3	2.5	3.6	2.5	3.8	2.5
36 (4.0)	20.0	3.8	2.9	4.0	3.0	4.3	3.0	4.4	3.2	4.6	3.2	4.8	3.2	5.0	3.1
	22.5	3.8	2.9	3.9	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.8	3.1	4.9	3.0
	25.0	3.7	2.9	3.8	3.0	4.2	3.0	4.3	3.2	4.5	3.2	4.8	3.1	4.9	3.0
	27.5	3.6	2.8	3.8	2.9	4.1	2.9	4.2	3.1	4.4	3.1	4.7	3.1	4.8	3.0
	30.0	3.6	2.8	3.7	2.9	4.0	2.9	4.2	3.1	4.4	3.1	4.6	3.1	4.8	3.0
	32.5	3.5	2.8	3.6	2.9	3.9	2.9	4.1	3.1	4.3	3.1	4.5	3.0	4.7	3.0
	35.0	3.4	2.7	3.5	2.8	3.8	2.8	4.0	3.0	4.2	3.1	4.4	3.0	4.6	2.9
	37.5	3.3	2.7	3.4	2.8	3.8	2.8	3.9	3.0	4.1	3.0	4.4	3.0	4.5	2.9
	40.0	3.2	2.6	3.3	2.7	3.6	2.7	3.8	3.0	4.0	3.0	4.3	2.9	4.4	2.9
	43.0	3.0	2.6	3.2	2.7	3.5	2.7	3.7	2.9	3.8	2.9	4.2	2.9	4.3	2.8
	46.0	2.9	2.5	3.0	2.6	3.4	2.6	3.5	2.8	3.6	2.8	4.0	2.9	4.2	2.8

kcal/h=kW x 860 , BTU/h = kW x 3,412

1. Cooling [Ceiling concealed (Slim type)]

PEFY-P-VMS-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.3	3.1	4.5	3.3	4.8	3.3	5.0	3.5	5.1	3.4	5.4	3.4	5.6	3.3
	22.5	4.2	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.1	3.4	5.4	3.4	5.5	3.3
	25.0	4.1	3.1	4.3	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.4	3.4	5.5	3.2
	27.5	4.1	3.1	4.2	3.2	4.6	3.2	4.8	3.4	5.0	3.4	5.3	3.3	5.4	3.2
	30.0	4.0	3.0	4.1	3.1	4.5	3.1	4.7	3.3	4.9	3.3	5.2	3.3	5.4	3.2
	32.5	3.9	3.0	4.1	3.1	4.4	3.1	4.6	3.3	4.8	3.3	5.1	3.3	5.3	3.2
	35.0	3.8	2.9	4.0	3.0	4.3	3.0	4.5	3.2	4.7	3.3	5.0	3.2	5.2	3.1
	37.5	3.7	2.9	3.9	3.0	4.2	3.0	4.4	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	40.0	3.6	2.8	3.7	2.9	4.1	2.9	4.3	3.2	4.5	3.2	4.8	3.1	5.0	3.1
	43.0	3.4	2.7	3.6	2.9	4.0	2.9	4.1	3.1	4.3	3.1	4.7	3.1	4.9	3.0
	46.0	3.3	2.7	3.4	2.8	3.8	2.8	4.0	3.0	4.1	3.0	4.5	3.0	4.7	3.0
45 (5.0)	20.0	4.8	3.7	5.0	3.9	5.4	3.9	5.6	4.1	5.7	4.1	6.1	4.0	6.3	3.9
	22.5	4.7	3.7	4.9	3.8	5.3	3.8	5.5	4.1	5.7	4.1	6.0	4.0	6.2	3.9
	25.0	4.6	3.6	4.8	3.8	5.2	3.8	5.4	4.1	5.6	4.0	6.0	4.0	6.1	3.9
	27.5	4.6	3.6	4.7	3.7	5.1	3.7	5.3	4.0	5.6	4.0	5.9	4.0	6.0	3.8
	30.0	4.5	3.6	4.6	3.7	5.0	3.7	5.3	4.0	5.5	4.0	5.8	3.9	6.0	3.8
	32.5	4.4	3.5	4.5	3.6	4.9	3.7	5.2	3.9	5.4	3.9	5.7	3.9	5.9	3.8
	35.0	4.2	3.5	4.4	3.6	4.8	3.6	5.0	3.9	5.3	3.9	5.6	3.8	5.8	3.7
	37.5	4.1	3.4	4.3	3.6	4.7	3.6	4.9	3.8	5.1	3.8	5.5	3.8	5.7	3.7
	40.0	4.0	3.4	4.2	3.5	4.6	3.5	4.8	3.8	5.0	3.8	5.4	3.8	5.6	3.7
	43.0	3.8	3.3	4.0	3.4	4.4	3.5	4.6	3.7	4.8	3.7	5.2	3.7	5.4	3.6
	46.0	3.7	3.2	3.8	3.3	4.2	3.4	4.4	3.6	4.6	3.6	5.1	3.7	5.3	3.6
50 (5.6)	20.0	5.3	4.0	5.5	4.1	6.0	4.1	6.2	4.4	6.4	4.4	6.8	4.3	7.0	4.2
	22.5	5.3	4.0	5.5	4.1	5.9	4.1	6.1	4.4	6.3	4.3	6.7	4.3	6.9	4.1
	25.0	5.2	3.9	5.4	4.1	5.8	4.1	6.0	4.3	6.3	4.3	6.7	4.3	6.8	4.1
	27.5	5.1	3.9	5.3	4.0	5.7	4.0	5.9	4.3	6.2	4.3	6.6	4.2	6.7	4.1
	30.0	5.0	3.8	5.2	3.9	5.6	4.0	5.9	4.3	6.1	4.2	6.4	4.2	6.7	4.1
	32.5	4.9	3.8	5.0	3.9	5.5	3.9	5.8	4.2	6.0	4.2	6.3	4.1	6.6	4.0
	35.0	4.7	3.7	4.9	3.8	5.4	3.9	5.6	4.1	5.9	4.2	6.2	4.1	6.4	4.0
	37.5	4.6	3.6	4.8	3.8	5.3	3.8	5.5	4.1	5.7	4.1	6.1	4.1	6.3	3.9
	40.0	4.5	3.6	4.6	3.7	5.1	3.7	5.3	4.0	5.5	4.0	6.0	4.0	6.2	3.9
	43.0	4.3	3.5	4.5	3.6	4.9	3.7	5.2	3.9	5.4	4.0	5.8	3.9	6.0	3.8
	46.0	4.1	3.4	4.3	3.5	4.7	3.6	4.9	3.9	5.1	3.8	5.7	3.9	5.9	3.8
56 (6.3)	20.0	6.0	4.7	6.2	4.9	6.7	4.9	7.0	5.2	7.2	5.2	7.6	5.1	7.9	5.0
	22.5	5.9	4.7	6.2	4.9	6.6	4.8	6.9	5.2	7.1	5.2	7.6	5.1	7.7	4.9
	25.0	5.8	4.6	6.0	4.8	6.6	4.8	6.8	5.1	7.1	5.1	7.5	5.1	7.7	4.9
	27.5	5.7	4.6	5.9	4.7	6.4	4.8	6.7	5.1	7.0	5.1	7.4	5.0	7.6	4.9
	30.0	5.6	4.5	5.8	4.7	6.3	4.7	6.6	5.1	6.9	5.1	7.2	5.0	7.5	4.8
	32.5	5.5	4.5	5.7	4.6	6.2	4.7	6.5	5.0	6.7	5.0	7.1	4.9	7.4	4.8
	35.0	5.3	4.4	5.5	4.6	6.0	4.6	6.3	4.9	6.6	5.0	7.0	4.9	7.2	4.8
	37.5	5.2	4.3	5.4	4.5	5.9	4.5	6.2	4.9	6.4	4.9	6.9	4.8	7.1	4.7
	40.0	5.0	4.3	5.2	4.4	5.7	4.5	6.0	4.8	6.2	4.8	6.7	4.8	7.0	4.7
	43.0	4.8	4.2	5.0	4.4	5.5	4.4	5.8	4.7	6.0	4.7	6.6	4.7	6.8	4.6
	46.0	4.6	4.1	4.8	4.2	5.3	4.3	5.5	4.6	5.7	4.6	6.4	4.7	6.6	4.6
63 (7.1)	20.0	6.7	5.1	7.0	5.3	7.6	5.3	7.9	5.6	8.1	5.6	8.6	5.5	8.9	5.3
	22.5	6.7	5.0	7.0	5.2	7.5	5.2	7.7	5.5	8.0	5.5	8.5	5.5	8.7	5.3
	25.0	6.5	5.0	6.8	5.2	7.4	5.2	7.7	5.5	8.0	5.5	8.4	5.4	8.7	5.3
	27.5	6.5	4.9	6.7	5.1	7.2	5.1	7.5	5.5	7.9	5.5	8.3	5.4	8.5	5.2
	30.0	6.3	4.9	6.5	5.0	7.1	5.1	7.5	5.4	7.7	5.4	8.2	5.3	8.4	5.2
	32.5	6.2	4.8	6.4	5.0	7.0	5.0	7.3	5.4	7.6	5.4	8.0	5.3	8.3	5.1
	35.0	6.0	4.7	6.2	4.9	6.8	4.9	7.1	5.3	7.5	5.3	7.9	5.2	8.2	5.1
	37.5	5.8	4.6	6.1	4.8	6.7	4.9	7.0	5.2	7.2	5.2	7.7	5.2	8.0	5.0
	40.0	5.7	4.6	5.9	4.7	6.5	4.8	6.7	5.1	7.0	5.1	7.6	5.1	7.9	5.0
	43.0	5.4	4.4	5.7	4.6	6.2	4.7	6.5	5.0	6.8	5.0	7.4	5.0	7.7	4.9
	46.0	5.2	4.3	5.4	4.5	6.0	4.6	6.2	4.9	6.5	4.9	7.2	5.0	7.5	4.8

kcal/h=kW x 860 , BTU/h = kW x 3,412

1-3. Cooling capacity with PUHY-P300YRJC-A

PEFY-P-VMS-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	22.5	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	25.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	30.0	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	32.5	1.6	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	35.0	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.7	1.6	1.8	1.5	1.9	1.5
	37.5	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.8	1.5	1.9	1.5
	40.0	1.5	1.4	1.5	1.5	1.6	1.4	1.6	1.6	1.7	1.5	1.8	1.5	1.9	1.5
	43.0	1.4	1.4	1.5	1.4	1.6	1.4	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.5
	46.0	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.8	1.9
	22.5	2.1	1.8	2.2	1.9	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.8	1.9
	25.0	2.1	1.8	2.2	1.9	2.3	1.8	2.4	2.0	2.4	1.9	2.6	1.9	2.7	1.9
	27.5	2.1	1.8	2.1	1.8	2.3	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	32.5	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.8
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.8
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.2	1.9	2.3	1.8	2.5	1.8
	40.0	1.9	1.7	2.0	1.8	2.1	1.7	2.1	1.9	2.2	1.9	2.3	1.8	2.4	1.8
	43.0	1.8	1.7	1.9	1.7	2.0	1.7	2.1	1.8	2.1	1.8	2.2	1.8	2.3	1.8
	46.0	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.7	1.9	1.6
22 (2.5)	20.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.1
	22.5	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.1
	25.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.1
	27.5	2.4	2.0	2.4	2.1	2.6	2.0	2.6	2.2	2.7	2.2	2.9	2.1	3.0	2.1
	30.0	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.8	2.1	3.0	2.1
	32.5	2.3	2.0	2.3	2.0	2.5	2.0	2.6	2.1	2.6	2.1	2.8	2.1	2.9	2.1
	35.0	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.1	2.9	2.1
	37.5	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.1	2.5	2.1	2.6	2.1	2.8	2.0
	40.0	2.2	1.9	2.2	2.0	2.3	2.0	2.4	2.1	2.5	2.1	2.6	2.0	2.7	2.0
	43.0	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.4	2.1	2.5	2.0	2.7	2.0
	46.0	1.6	1.6	1.7	1.7	1.8	1.7	1.9	1.9	1.9	1.9	2.0	1.9	2.2	1.8
25 (2.8)	20.0	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	25.0	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.7	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.6	2.1	2.7	2.2	2.8	2.2	2.9	2.3	3.0	2.3	3.2	2.2	3.3	2.2
	32.5	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.3	2.9	2.3	3.1	2.2	3.3	2.2
	35.0	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.2	3.2	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.8	2.2	3.0	2.2	3.1	2.1
	40.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.1
	43.0	2.4	2.0	2.4	2.1	2.6	2.0	2.6	2.2	2.7	2.2	2.8	2.1	3.0	2.1
	46.0	1.8	1.8	1.9	1.8	2.0	1.8	2.1	2.0	2.2	2.0	2.3	1.9	2.5	1.9
28 (3.2)	20.0	3.0	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.6	4.0	2.6
	22.5	3.0	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.6	4.0	2.6
	25.0	3.0	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.5	2.6	3.7	2.6	4.0	2.5
	27.5	3.0	2.4	3.1	2.5	3.3	2.4	3.4	2.6	3.5	2.6	3.7	2.5	3.9	2.5
	30.0	3.0	2.4	3.1	2.4	3.2	2.4	3.3	2.6	3.4	2.6	3.6	2.5	3.8	2.5
	32.5	2.9	2.3	3.0	2.4	3.2	2.4	3.3	2.5	3.4	2.5	3.5	2.5	3.7	2.5
	35.0	2.9	2.3	3.0	2.4	3.1	2.4	3.2	2.5	3.3	2.5	3.5	2.5	3.7	2.4
	37.5	2.8	2.3	2.9	2.4	3.1	2.3	3.1	2.5	3.2	2.5	3.4	2.4	3.6	2.4
	40.0	2.8	2.3	2.8	2.3	3.0	2.3	3.1	2.5	3.2	2.5	3.3	2.4	3.5	2.4
	43.0	2.7	2.2	2.8	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.2	2.4	3.4	2.3
	46.0	2.1	2.0	2.2	2.0	2.3	2.0	2.4	2.2	2.5	2.2	2.6	2.2	2.8	2.1
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.6	2.7
	22.5	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.6	2.7
	25.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.2	2.7	4.5	2.7
	27.5	3.4	2.6	3.5	2.7	3.7	2.6	3.8	2.8	3.9	2.8	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.6
	32.5	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.2	2.5	3.3	2.6	3.5	2.5	3.6	2.7	3.7	2.7	3.9	2.6	4.1	2.6
	37.5	3.2	2.5	3.3	2.5	3.4	2.5	3.5	2.7	3.6	2.6	3.8	2.6	4.0	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.7	2.6	3.9	2.5
	43.0	3.0	2.4	3.1	2.5	3.3	2.4	3.4	2.6	3.5	2.6	3.6	2.5	3.8	2.5
	46.0	2.3	2.1	2.4	2.2	2.6	2.2	2.7	2.3	2.8	2.3	2.9	2.3	3.2	2.3
36 (4.0)	20.0	3.8	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.5	3.2	4.7	3.1	5.1	3.1
	22.5	3.8	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.5	3.2	4.7	3.1	5.1	3.1
	25.0	3.8	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.4	3.1	4.7	3.1	5.0	3.1
	27.5	3.8	2.9	3.9	3.0	4.1	3.0	4.2	3.1	4.3	3.1	4.6	3.1	4.9	3.0
	30.0	3.7	2.9	3.8	3.0	4.1	2.9	4.2	3.1	4.3	3.1	4.5	3.0	4.8	3.0
	32.5	3.7	2.8	3.8	2.9	4.0	2.9	4.1	3.1	4.2	3.0	4.4	3.0	4.7	3.0
	35.0	3.6	2.8	3.7	2.9	3.9	2.9	4.0	3.0	4.1	3.0	4.3	3.0	4.6	2.9
	37.5	3.5	2.8	3.6	2.9	3.8	2.8	3.9	3.0	4.0	3.0	4.2	2.9	4.5	2.9
	40.0	3.4	2.7	3.5	2.8	3.8	2.8	3.9	3.0	4.0	3.0	4.1	2.9	4.4	2.9
	43.0	3.4	2.7	3.5	2.8	3.7	2.8	3.8	2.9	3.9	2.9	4.0	2.9	4.3	2.8
	46.0	2.6	2.4	2.7	2.5	2.9	2.4	3.0	2.6	3.1	2.6	3.3	2.6	3.5	2.6

kcal/h=kW x 860 , BTU/h = kW x 3,412

1. Cooling [Ceiling concealed (Slim type)]

PEFY-P-VMS-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	25.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.6	3.3
	27.5	4.3	3.1	4.4	3.2	4.6	3.2	4.8	3.4	4.9	3.3	5.2	3.3	5.5	3.2
	30.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.3	4.8	3.3	5.1	3.2	5.4	3.2
	32.5	4.1	3.1	4.2	3.1	4.5	3.1	4.6	3.3	4.7	3.3	5.0	3.2	5.3	3.2
	35.0	4.0	3.0	4.1	3.1	4.4	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.2	3.1
	37.5	4.0	3.0	4.1	3.1	4.3	3.0	4.4	3.2	4.5	3.2	4.8	3.1	5.0	3.1
	40.0	3.9	2.9	4.0	3.0	4.2	3.0	4.3	3.2	4.4	3.2	4.7	3.1	4.9	3.0
	43.0	3.8	2.9	3.9	3.0	4.1	3.0	4.2	3.1	4.3	3.1	4.5	3.0	4.8	3.0
	46.0	2.9	2.5	3.0	2.6	3.3	2.6	3.4	2.8	3.5	2.8	3.7	2.7	4.0	2.7
45 (5.0)	20.0	4.8	3.7	4.9	3.8	5.3	3.8	5.4	4.1	5.6	4.0	5.9	4.0	6.3	3.9
	22.5	4.8	3.7	4.9	3.8	5.3	3.8	5.4	4.1	5.6	4.0	5.9	4.0	6.3	3.9
	25.0	4.8	3.7	4.9	3.8	5.3	3.8	5.4	4.0	5.5	4.0	5.9	4.0	6.2	3.9
	27.5	4.7	3.7	4.9	3.8	5.2	3.8	5.3	4.0	5.4	4.0	5.7	3.9	6.1	3.9
	30.0	4.6	3.7	4.8	3.8	5.1	3.7	5.2	4.0	5.3	3.9	5.6	3.9	6.0	3.8
	32.5	4.6	3.6	4.7	3.7	5.0	3.7	5.1	3.9	5.2	3.9	5.5	3.8	5.9	3.8
	35.0	4.5	3.6	4.6	3.7	4.9	3.7	5.0	3.9	5.1	3.9	5.4	3.8	5.7	3.7
	37.5	4.4	3.5	4.5	3.7	4.8	3.6	4.9	3.8	5.0	3.8	5.3	3.7	5.6	3.7
	40.0	4.3	3.5	4.4	3.6	4.7	3.6	4.8	3.8	4.9	3.8	5.2	3.7	5.5	3.7
	43.0	4.2	3.5	4.3	3.6	4.6	3.5	4.7	3.8	4.8	3.7	5.0	3.7	5.3	3.6
	46.0	3.3	3.0	3.4	3.2	3.6	3.1	3.8	3.4	3.9	3.4	4.1	3.3	4.4	3.3
50 (5.6)	20.0	5.3	4.0	5.5	4.1	5.9	4.1	6.1	4.3	6.2	4.3	6.6	4.3	7.1	4.2
	22.5	5.3	4.0	5.5	4.1	5.9	4.1	6.1	4.3	6.2	4.3	6.6	4.3	7.1	4.2
	25.0	5.3	4.0	5.5	4.1	5.9	4.1	6.0	4.3	6.2	4.3	6.6	4.2	7.0	4.2
	27.5	5.3	4.0	5.5	4.1	5.8	4.0	5.9	4.3	6.1	4.2	6.4	4.2	6.8	4.1
	30.0	5.2	3.9	5.4	4.0	5.7	4.0	5.8	4.2	6.0	4.2	6.3	4.1	6.7	4.1
	32.5	5.1	3.9	5.3	4.0	5.6	4.0	5.7	4.2	5.9	4.2	6.2	4.1	6.6	4.0
	35.0	5.0	3.8	5.2	4.0	5.5	3.9	5.6	4.1	5.8	4.1	6.1	4.0	6.4	4.0
	37.5	4.9	3.8	5.1	3.9	5.4	3.9	5.5	4.1	5.6	4.1	5.9	4.0	6.3	3.9
	40.0	4.8	3.7	5.0	3.9	5.3	3.8	5.4	4.0	5.5	4.0	5.8	3.9	6.1	3.9
	43.0	4.7	3.7	4.8	3.8	5.1	3.8	5.3	4.0	5.4	4.0	5.6	3.9	6.0	3.8
	46.0	3.6	3.2	3.8	3.3	4.1	3.3	4.2	3.6	4.3	3.5	4.6	3.5	4.9	3.5
56 (6.3)	20.0	6.0	4.7	6.2	4.9	6.6	4.8	6.8	5.2	7.0	5.1	7.5	5.1	8.0	5.0
	22.5	6.0	4.7	6.2	4.9	6.6	4.8	6.8	5.2	7.0	5.1	7.5	5.1	8.0	5.0
	25.0	6.0	4.7	6.2	4.9	6.6	4.8	6.8	5.1	7.0	5.1	7.4	5.0	7.8	5.0
	27.5	6.0	4.7	6.1	4.8	6.5	4.8	6.7	5.1	6.8	5.1	7.2	5.0	7.7	4.9
	30.0	5.9	4.7	6.0	4.8	6.4	4.7	6.6	5.0	6.7	5.0	7.1	4.9	7.5	4.9
	32.5	5.7	4.6	5.9	4.7	6.3	4.7	6.4	5.0	6.6	5.0	6.9	4.9	7.4	4.8
	35.0	5.6	4.5	5.8	4.7	6.1	4.6	6.3	4.9	6.5	4.9	6.8	4.8	7.2	4.8
	37.5	5.5	4.5	5.7	4.6	6.0	4.6	6.2	4.9	6.4	4.9	6.7	4.8	7.1	4.7
	40.0	5.4	4.4	5.6	4.6	5.9	4.5	6.1	4.8	6.2	4.8	6.5	4.7	6.9	4.6
	43.0	5.3	4.4	5.4	4.5	5.8	4.5	5.9	4.8	6.1	4.8	6.4	4.7	6.7	4.6
	46.0	4.1	3.8	4.3	4.0	4.6	4.0	4.7	4.3	4.9	4.3	5.2	4.2	5.5	4.2
63 (7.1)	20.0	6.7	5.1	7.0	5.2	7.5	5.2	7.7	5.5	7.9	5.5	8.4	5.4	9.0	5.4
	22.5	6.7	5.1	7.0	5.2	7.5	5.2	7.7	5.5	7.9	5.5	8.4	5.4	9.0	5.4
	25.0	6.7	5.1	7.0	5.2	7.5	5.2	7.7	5.5	7.9	5.5	8.3	5.4	8.8	5.3
	27.5	6.7	5.1	6.9	5.2	7.3	5.2	7.5	5.5	7.7	5.4	8.1	5.3	8.7	5.3
	30.0	6.6	5.0	6.8	5.2	7.2	5.1	7.4	5.4	7.6	5.3	8.0	5.3	8.5	5.2
	32.5	6.5	4.9	6.7	5.1	7.1	5.0	7.2	5.3	7.4	5.3	7.8	5.2	8.3	5.1
	35.0	6.4	4.9	6.5	5.0	6.9	5.0	7.1	5.3	7.3	5.2	7.7	5.1	8.1	5.1
	37.5	6.2	4.8	6.4	5.0	6.8	4.9	7.0	5.2	7.2	5.2	7.5	5.1	8.0	5.0
	40.0	6.1	4.8	6.3	4.9	6.7	4.9	6.8	5.2	7.0	5.1	7.4	5.0	7.8	4.9
	43.0	6.0	4.7	6.1	4.8	6.5	4.8	6.7	5.1	6.9	5.1	7.2	4.9	7.6	4.9
	46.0	4.6	4.1	4.8	4.2	5.2	4.2	5.3	4.5	5.5	4.5	5.8	4.5	6.2	4.4

kcal/h=kW x 860 , BTU/h = kW x 3,412

1-4. Cooling capacity with PUHY-P350-400YRJC-A

PEFY-P-VMS-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.7	1.5	1.7	1.5	1.8	1.5	1.9	1.7	2.0	1.7	2.1	1.6	2.2	1.6
	22.5	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.6	1.9	1.6	2.0	1.6	2.2	1.6
	25.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	30.0	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	32.5	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	35.0	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.9	1.6	2.0	1.5
	37.5	1.5	1.4	1.5	1.5	1.6	1.4	1.7	1.6	1.7	1.6	1.8	1.5	1.9	1.5
	40.0	1.5	1.4	1.5	1.4	1.6	1.4	1.6	1.6	1.7	1.5	1.8	1.5	1.9	1.5
	43.0	1.4	1.4	1.4	1.4	1.5	1.4	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.5
	46.0	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.4	1.9	2.5	2.0	2.5	2.0	2.7	2.0	2.9	1.9
	22.5	2.1	1.8	2.2	1.9	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.8	1.9
	25.0	2.1	1.8	2.2	1.8	2.3	1.8	2.4	2.0	2.4	2.0	2.6	1.9	2.8	1.9
	27.5	2.1	1.8	2.1	1.8	2.3	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.9
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.9
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.8
	37.5	1.9	1.7	2.0	1.8	2.1	1.7	2.1	1.9	2.2	1.9	2.3	1.8	2.5	1.8
	40.0	1.9	1.7	1.9	1.7	2.0	1.7	2.1	1.9	2.2	1.8	2.3	1.8	2.4	1.8
	43.0	1.9	1.7	1.9	1.7	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.8	2.4	1.8
	46.0	1.4	1.4	1.4	1.4	1.6	1.5	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.6
22 (2.5)	20.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.2
	22.5	2.4	2.0	2.5	2.1	2.7	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.2
	25.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.1
	27.5	2.3	2.0	2.4	2.1	2.6	2.0	2.6	2.2	2.7	2.2	2.9	2.1	3.1	2.1
	30.0	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.8	2.1	3.0	2.1
	32.5	2.3	2.0	2.3	2.0	2.5	2.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.1
	35.0	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.1	2.9	2.1
	37.5	2.2	1.9	2.2	2.0	2.4	2.0	2.4	2.1	2.5	2.1	2.7	2.1	2.8	2.0
	40.0	2.2	1.9	2.2	2.0	2.3	1.9	2.4	2.1	2.5	2.1	2.6	2.0	2.8	2.0
	43.0	2.1	1.9	2.1	1.9	2.2	1.9	2.3	2.1	2.4	2.0	2.5	2.0	2.7	2.0
	46.0	1.6	1.6	1.6	1.6	1.8	1.7	1.8	1.8	1.9	1.9	2.1	1.9	2.2	1.8
25 (2.8)	20.0	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.4	3.4	2.3	3.6	2.3
	22.5	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.4	3.4	2.3	3.6	2.3
	25.0	2.7	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.2	2.3	3.4	2.2
	30.0	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.8	2.3	2.9	2.3	3.1	2.2	3.3	2.2
	35.0	2.5	2.1	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.2	3.2	2.2
	37.5	2.5	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.1
	40.0	2.4	2.0	2.4	2.1	2.6	2.0	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.1
	43.0	2.4	2.0	2.4	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.8	2.1	3.0	2.1
	46.0	1.8	1.8	1.8	1.8	2.0	1.8	2.1	2.0	2.2	2.0	2.3	1.9	2.5	1.9
28 (3.2)	20.0	3.1	2.4	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.7	3.9	2.6	4.2	2.6
	22.5	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.7	3.6	2.6	3.8	2.6	4.1	2.6
	25.0	3.1	2.4	3.1	2.5	3.3	2.5	3.5	2.6	3.6	2.6	3.8	2.6	4.0	2.5
	27.5	3.0	2.4	3.1	2.5	3.3	2.4	3.4	2.6	3.5	2.6	3.7	2.5	3.9	2.5
	30.0	3.0	2.4	3.0	2.4	3.2	2.4	3.3	2.6	3.4	2.6	3.6	2.5	3.8	2.5
	32.5	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.5	3.4	2.5	3.6	2.5	3.8	2.5
	35.0	2.9	2.3	2.9	2.4	3.1	2.4	3.2	2.5	3.3	2.5	3.5	2.5	3.7	2.4
	37.5	2.8	2.3	2.8	2.3	3.0	2.3	3.1	2.5	3.2	2.5	3.4	2.4	3.6	2.4
	40.0	2.8	2.3	2.8	2.3	3.0	2.3	3.0	2.5	3.1	2.4	3.3	2.4	3.5	2.4
	43.0	2.7	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.4	2.4
	46.0	2.1	2.0	2.1	2.0	2.3	2.0	2.4	2.2	2.5	2.2	2.6	2.2	2.8	2.2
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.9	4.2	2.9	4.4	2.8	4.7	2.8
	22.5	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.8	4.1	2.8	4.3	2.8	4.6	2.7
	25.0	3.4	2.6	3.5	2.7	3.8	2.6	3.9	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	27.5	3.4	2.6	3.5	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.7	4.4	2.7
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.7
	32.5	3.3	2.5	3.3	2.6	3.5	2.5	3.7	2.7	3.8	2.7	4.0	2.7	4.2	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.7	2.7	3.9	2.6	4.2	2.6
	37.5	3.2	2.5	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.6	4.1	2.6
	40.0	3.1	2.4	3.1	2.5	3.3	2.5	3.4	2.6	3.5	2.6	3.8	2.6	4.0	2.5
	43.0	3.0	2.4	3.0	2.4	3.2	2.4	3.3	2.6	3.4	2.6	3.7	2.5	3.9	2.5
	46.0	2.4	2.1	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.3
36 (4.0)	20.0	3.9	3.0	4.0	3.1	4.3	3.0	4.5	3.2	4.6	3.2	4.9	3.2	5.2	3.1
	22.5	3.9	2.9	4.0	3.0	4.3	3.0	4.4	3.2	4.5	3.2	4.8	3.1	5.1	3.1
	25.0	3.8	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.4	3.2	4.7	3.1	5.0	3.1
	27.5	3.8	2.9	3.8	3.0	4.1	2.9	4.2	3.1	4.4	3.1	4.6	3.1	4.9	3.0
	30.0	3.7	2.9	3.8	2.9	4.0	2.9	4.1	3.1	4.3	3.1	4.5	3.0	4.8	3.0
	32.5	3.6	2.8	3.7	2.9	3.9	2.9	4.1	3.1	4.2	3.0	4.4	3.0	4.7	3.0
	35.0	3.6	2.8	3.6	2.9	3.9	2.8	4.0	3.0	4.1	3.0	4.4	3.0	4.6	2.9
	37.5	3.5	2.8	3.5	2.8	3.8	2.8	3.9	3.0	4.0	3.0	4.3	2.9	4.5	2.9
	40.0	3.4	2.7	3.5	2.8	3.7	2.8	3.8	3.0	3.9	2.9	4.2	2.9	4.4	2.9
	43.0	3.4	2.7	3.4	2.8	3.6	2.7	3.7	2.9	3.8	2.9	4.1	2.9	4.3	2.8
	46.0	2.6	2.4	2.6	2.4	2.8	2.4	3.0	2.6	3.1	2.6	3.3	2.6	3.5	2.6

kcal/h=kW x 860 , BTU/h = kW x 3,412

1. Cooling [Ceiling concealed (Slim type)]

PEFY-P-VMS-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.4	3.2	4.5	3.3	4.9	3.3	5.0	3.5	5.2	3.5	5.5	3.4	5.8	3.4
	22.5	4.4	3.2	4.5	3.3	4.8	3.3	4.9	3.4	5.1	3.4	5.4	3.4	5.7	3.3
	25.0	4.3	3.2	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.6	3.3
	27.5	4.2	3.1	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.1	4.2	3.2	4.5	3.1	4.7	3.3	4.8	3.3	5.1	3.3	5.4	3.2
	32.5	4.1	3.0	4.2	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.0	3.2	5.3	3.2
	35.0	4.0	3.0	4.1	3.1	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.2	3.1
	37.5	3.9	3.0	4.0	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.8	3.1	5.1	3.1
	40.0	3.9	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.4	3.1	4.7	3.1	5.0	3.1
	43.0	3.8	2.9	3.8	2.9	4.0	2.9	4.2	3.1	4.3	3.1	4.6	3.1	4.8	3.0
	46.0	2.9	2.5	3.0	2.6	3.2	2.6	3.3	2.8	3.5	2.8	3.7	2.7	4.0	2.7
45 (5.0)	20.0	4.9	3.8	5.0	3.9	5.4	3.9	5.6	4.1	5.8	4.1	6.1	4.1	6.5	4.0
	22.5	4.8	3.8	5.0	3.9	5.3	3.8	5.5	4.1	5.7	4.1	6.0	4.0	6.4	4.0
	25.0	4.8	3.7	4.9	3.8	5.2	3.8	5.4	4.0	5.6	4.0	5.9	4.0	6.3	3.9
	27.5	4.7	3.7	4.8	3.8	5.1	3.8	5.3	4.0	5.5	4.0	5.8	3.9	6.1	3.9
	30.0	4.6	3.6	4.7	3.7	5.0	3.7	5.2	4.0	5.3	3.9	5.7	3.9	6.0	3.8
	32.5	4.5	3.6	4.6	3.7	4.9	3.7	5.1	3.9	5.2	3.9	5.6	3.8	5.9	3.8
	35.0	4.5	3.6	4.5	3.7	4.8	3.6	5.0	3.9	5.1	3.9	5.4	3.8	5.8	3.7
	37.5	4.4	3.5	4.4	3.6	4.7	3.6	4.9	3.8	5.0	3.8	5.3	3.8	5.6	3.7
	40.0	4.3	3.5	4.3	3.6	4.6	3.5	4.8	3.8	4.9	3.8	5.2	3.7	5.5	3.7
	43.0	4.2	3.5	4.2	3.5	4.5	3.5	4.6	3.7	4.8	3.7	5.1	3.7	5.4	3.6
	46.0	3.3	3.0	3.3	3.1	3.6	3.1	3.7	3.4	3.8	3.4	4.1	3.3	4.4	3.3
50 (5.6)	20.0	5.4	4.0	5.6	4.2	6.1	4.2	6.3	4.4	6.5	4.4	6.9	4.3	7.3	4.3
	22.5	5.4	4.0	5.6	4.2	6.0	4.1	6.2	4.4	6.3	4.4	6.7	4.3	7.1	4.2
	25.0	5.3	4.0	5.5	4.1	5.8	4.1	6.0	4.3	6.2	4.3	6.6	4.2	7.0	4.2
	27.5	5.3	4.0	5.4	4.1	5.7	4.0	5.9	4.3	6.1	4.3	6.5	4.2	6.9	4.1
	30.0	5.2	3.9	5.3	4.0	5.6	4.0	5.8	4.2	6.0	4.2	6.4	4.1	6.7	4.1
	32.5	5.1	3.9	5.2	4.0	5.5	3.9	5.7	4.2	5.9	4.2	6.2	4.1	6.6	4.0
	35.0	5.0	3.8	5.1	3.9	5.4	3.9	5.6	4.1	5.7	4.1	6.1	4.0	6.5	4.0
	37.5	4.9	3.8	5.0	3.9	5.3	3.8	5.5	4.1	5.6	4.1	6.0	4.0	6.3	3.9
	40.0	4.8	3.7	4.9	3.8	5.2	3.8	5.3	4.0	5.5	4.0	5.8	4.0	6.2	3.9
	43.0	4.7	3.7	4.7	3.8	5.0	3.7	5.2	4.0	5.4	3.9	5.7	3.9	6.0	3.8
	46.0	3.7	3.2	3.7	3.3	4.0	3.3	4.1	3.5	4.3	3.5	4.6	3.5	5.0	3.5
56 (6.3)	20.0	6.1	4.8	6.3	4.9	6.8	4.9	7.0	5.2	7.3	5.2	7.7	5.2	8.2	5.1
	22.5	6.1	4.8	6.3	4.9	6.7	4.9	6.9	5.2	7.1	5.2	7.6	5.1	8.0	5.0
	25.0	6.0	4.7	6.2	4.9	6.6	4.8	6.8	5.1	7.0	5.1	7.4	5.1	7.9	5.0
	27.5	5.9	4.7	6.1	4.8	6.5	4.8	6.7	5.1	6.9	5.1	7.3	5.0	7.7	4.9
	30.0	5.8	4.6	5.9	4.8	6.3	4.7	6.5	5.0	6.7	5.0	7.1	4.9	7.6	4.9
	32.5	5.7	4.6	5.8	4.7	6.2	4.7	6.4	5.0	6.6	5.0	7.0	4.9	7.4	4.8
	35.0	5.6	4.5	5.7	4.6	6.1	4.6	6.3	4.9	6.5	4.9	6.9	4.8	7.3	4.8
	37.5	5.5	4.5	5.6	4.6	5.9	4.6	6.1	4.9	6.3	4.8	6.7	4.8	7.1	4.7
	40.0	5.4	4.4	5.5	4.5	5.8	4.5	6.0	4.8	6.2	4.8	6.6	4.7	7.0	4.7
	43.0	5.3	4.4	5.3	4.5	5.7	4.4	5.8	4.8	6.0	4.7	6.4	4.7	6.8	4.6
	46.0	4.1	3.9	4.1	4.0	4.5	4.0	4.7	4.3	4.8	4.3	5.2	4.3	5.6	4.2
63 (7.1)	20.0	6.9	5.2	7.1	5.3	7.7	5.3	7.9	5.6	8.2	5.6	8.7	5.5	9.2	5.5
	22.5	6.9	5.1	7.1	5.3	7.6	5.3	7.8	5.6	8.0	5.5	8.5	5.5	9.1	5.4
	25.0	6.8	5.1	7.0	5.2	7.4	5.2	7.7	5.5	7.9	5.5	8.4	5.4	8.9	5.3
	27.5	6.7	5.0	6.8	5.2	7.3	5.1	7.5	5.4	7.7	5.4	8.2	5.3	8.7	5.3
	30.0	6.5	5.0	6.7	5.1	7.1	5.1	7.4	5.4	7.6	5.4	8.1	5.3	8.5	5.2
	32.5	6.4	4.9	6.6	5.0	7.0	5.0	7.2	5.3	7.4	5.3	7.9	5.2	8.4	5.1
	35.0	6.3	4.9	6.4	5.0	6.8	4.9	7.1	5.3	7.3	5.2	7.7	5.2	8.2	5.1
	37.5	6.2	4.8	6.3	4.9	6.7	4.9	6.9	5.2	7.1	5.2	7.6	5.1	8.0	5.0
	40.0	6.1	4.8	6.2	4.9	6.6	4.8	6.8	5.1	7.0	5.1	7.4	5.0	7.8	5.0
	43.0	6.0	4.7	6.0	4.8	6.4	4.7	6.6	5.1	6.8	5.0	7.2	5.0	7.6	4.9
	46.0	4.6	4.1	4.7	4.2	5.0	4.2	5.2	4.5	5.5	4.5	5.9	4.5	6.3	4.4

kcal/h=kW x 860 , BTU/h = kW x 3,412

1-5. Cooling capacity with PUHY-P450YRJC-A

PEFY-P-VMS-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	22.5	1.6	1.5	1.6	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	25.0	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	30.0	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.1	1.6
	32.5	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	35.0	1.5	1.4	1.5	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	37.5	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	40.0	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.9	1.6	2.0	1.5
	43.0	1.5	1.4	1.5	1.4	1.6	1.4	1.7	1.6	1.7	1.6	1.8	1.5	2.0	1.5
	46.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4	1.6	1.4
20 (2.2)	20.0	2.1	1.8	2.1	1.8	2.3	1.8	2.4	2.0	2.4	2.0	2.6	1.9	2.8	1.9
	22.5	2.1	1.8	2.1	1.8	2.3	1.8	2.3	2.0	2.4	1.9	2.6	1.9	2.7	1.9
	25.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	2.0	1.7	2.0	1.8	2.2	1.8	2.3	1.9	2.3	1.9	2.5	1.9	2.7	1.9
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.9
	40.0	1.9	1.7	1.9	1.8	2.1	1.7	2.2	1.9	2.2	1.9	2.4	1.9	2.6	1.8
	43.0	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.9	2.2	1.9	2.4	1.9	2.5	1.8
	46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.7	2.1	1.7
22 (2.5)	20.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.1
	22.5	2.3	2.0	2.4	2.1	2.6	2.0	2.7	2.2	2.7	2.2	2.9	2.2	3.1	2.1
	25.0	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.9	2.1	3.1	2.1
	27.5	2.3	2.0	2.3	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.9	2.1	3.1	2.1
	30.0	2.3	2.0	2.3	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.8	2.1	3.0	2.1
	32.5	2.2	1.9	2.3	2.0	2.5	2.0	2.5	2.1	2.6	2.1	2.8	2.1	3.0	2.1
	35.0	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.1	2.6	2.1	2.8	2.1	3.0	2.1
	37.5	2.2	1.9	2.2	2.0	2.4	2.0	2.5	2.1	2.6	2.1	2.8	2.1	3.0	2.1
	40.0	2.2	1.9	2.2	2.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.1	2.9	2.1
	43.0	2.1	1.9	2.2	2.0	2.3	1.9	2.4	2.1	2.5	2.1	2.7	2.1	2.9	2.1
	46.0	1.7	1.7	1.7	1.7	1.9	1.8	2.0	1.9	2.0	1.9	2.2	1.9	2.4	1.9
25 (2.8)	20.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.5	2.2
	27.5	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.4	2.2
	35.0	2.5	2.1	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	40.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	43.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.2
	46.0	1.9	1.8	1.9	1.8	2.1	1.8	2.2	2.0	2.3	2.0	2.5	2.0	2.7	2.0
28 (3.2)	20.0	3.0	2.4	3.1	2.5	3.3	2.5	3.4	2.6	3.6	2.6	3.8	2.6	4.0	2.5
	22.5	3.0	2.4	3.1	2.5	3.3	2.4	3.4	2.6	3.5	2.6	3.7	2.6	4.0	2.5
	25.0	3.0	2.4	3.0	2.4	3.3	2.4	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.5
	27.5	2.9	2.4	3.0	2.4	3.2	2.4	3.3	2.6	3.4	2.6	3.7	2.5	3.9	2.5
	30.0	2.9	2.3	3.0	2.4	3.2	2.4	3.3	2.6	3.4	2.5	3.6	2.5	3.9	2.5
	32.5	2.9	2.3	2.9	2.4	3.2	2.4	3.3	2.5	3.4	2.5	3.6	2.5	3.8	2.5
	35.0	2.8	2.3	2.9	2.4	3.1	2.4	3.2	2.5	3.3	2.5	3.6	2.5	3.8	2.5
	37.5	2.8	2.3	2.9	2.4	3.1	2.3	3.2	2.5	3.3	2.5	3.5	2.5	3.8	2.5
	40.0	2.8	2.3	2.8	2.3	3.0	2.3	3.2	2.5	3.3	2.5	3.5	2.5	3.7	2.4
	43.0	2.7	2.3	2.8	2.3	3.0	2.3	3.1	2.5	3.2	2.5	3.5	2.5	3.7	2.4
	46.0	2.1	2.0	2.2	2.1	2.4	2.1	2.5	2.2	2.6	2.2	2.9	2.2	3.1	2.2
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.7	2.6	3.9	2.8	4.0	2.8	4.3	2.8	4.5	2.7
	22.5	3.4	2.6	3.5	2.6	3.7	2.6	3.8	2.8	4.0	2.8	4.2	2.7	4.5	2.7
	25.0	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.7	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.3	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.4	2.7
	32.5	3.2	2.5	3.3	2.6	3.5	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.7
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.8	2.7	4.0	2.7	4.3	2.6
	37.5	3.2	2.5	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.7	4.0	2.7	4.2	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.7	3.7	2.7	3.9	2.6	4.2	2.6
	43.0	3.1	2.4	3.1	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.9	2.6	4.2	2.6
	46.0	2.4	2.1	2.4	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.2	2.4	3.5	2.4
36 (4.0)	20.0	3.8	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.4	3.1	4.7	3.1	5.0	3.1
	22.5	3.7	2.9	3.8	3.0	4.1	3.0	4.3	3.1	4.4	3.1	4.7	3.1	5.0	3.1
	25.0	3.7	2.9	3.8	2.9	4.1	2.9	4.2	3.1	4.4	3.1	4.6	3.1	4.9	3.0
	27.5	3.7	2.8	3.8	2.9	4.0	2.9	4.2	3.1	4.3	3.1	4.6	3.1	4.9	3.0
	30.0	3.6	2.8	3.7	2.9	4.0	2.9	4.1	3.1	4.3	3.1	4.5	3.0	4.8	3.0
	32.5	3.6	2.8	3.7	2.9	3.9	2.9	4.1	3.1	4.2	3.1	4.5	3.0	4.8	3.0
	35.0	3.6	2.8	3.6	2.9	3.9	2.9	4.0	3.0	4.2	3.0	4.5	3.0	4.8	3.0
	37.5	3.5	2.8	3.6	2.8	3.8	2.8	4.0	3.0	4.1	3.0	4.4	3.0	4.7	3.0
	40.0	3.5	2.8	3.5	2.8	3.8	2.8	3.9	3.0	4.1	3.0	4.4	3.0	4.7	3.0
	43.0	3.4	2.7	3.5	2.8	3.7	2.8	3.9	3.0	4.0	3.0	4.3	3.0	4.6	2.9
	46.0	2.7	2.4	2.7	2.5	3.0	2.5	3.1	2.7	3.3	2.7	3.6	2.7	3.9	2.7

kcal/h=kW x 860 , BTU/h = kW x 3,412

1. Cooling [Ceiling concealed (Slim type)]

PEFY-P-VMS-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.8	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	22.5	4.2	3.1	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.3	3.3	5.6	3.3
	25.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.4	4.9	3.3	5.2	3.3	5.6	3.3
	27.5	4.1	3.1	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.1	4.2	3.1	4.5	3.1	4.6	3.3	4.8	3.3	5.1	3.3	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.1	3.2	5.4	3.2
	35.0	4.0	3.0	4.1	3.1	4.4	3.1	4.5	3.2	4.7	3.3	5.0	3.2	5.4	3.2
	37.5	4.0	3.0	4.0	3.1	4.3	3.0	4.5	3.2	4.6	3.2	5.0	3.2	5.3	3.2
	40.0	3.9	3.0	4.0	3.0	4.3	3.0	4.4	3.2	4.6	3.2	4.9	3.2	5.3	3.2
	43.0	3.9	2.9	3.9	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.9	3.2	5.2	3.1
	46.0	3.0	2.5	3.1	2.6	3.4	2.6	3.5	2.8	3.7	2.8	4.0	2.8	4.4	2.8
45 (5.0)	20.0	4.7	3.7	4.9	3.8	5.2	3.8	5.4	4.0	5.6	4.0	5.9	4.0	6.3	3.9
	22.5	4.7	3.7	4.8	3.8	5.1	3.8	5.3	4.0	5.5	4.0	5.8	4.0	6.2	3.9
	25.0	4.6	3.7	4.8	3.8	5.1	3.7	5.3	4.0	5.4	4.0	5.8	3.9	6.2	3.9
	27.5	4.6	3.6	4.7	3.7	5.0	3.7	5.2	4.0	5.4	4.0	5.7	3.9	6.1	3.9
	30.0	4.5	3.6	4.6	3.7	5.0	3.7	5.2	3.9	5.3	3.9	5.7	3.9	6.1	3.8
	32.5	4.5	3.6	4.6	3.7	4.9	3.7	5.1	3.9	5.3	3.9	5.6	3.9	6.0	3.8
	35.0	4.4	3.6	4.5	3.7	4.9	3.6	5.0	3.9	5.2	3.9	5.6	3.9	6.0	3.8
	37.5	4.4	3.5	4.5	3.6	4.8	3.6	5.0	3.9	5.2	3.9	5.5	3.8	5.9	3.8
	40.0	4.3	3.5	4.4	3.6	4.8	3.6	4.9	3.9	5.1	3.8	5.5	3.8	5.8	3.8
	43.0	4.3	3.5	4.3	3.6	4.7	3.6	4.9	3.8	5.0	3.8	5.4	3.8	5.8	3.8
	46.0	3.3	3.1	3.4	3.2	3.7	3.2	3.9	3.4	4.1	3.5	4.5	3.5	4.8	3.4
50 (5.6)	20.0	5.3	4.0	5.5	4.1	5.8	4.1	6.0	4.3	6.2	4.3	6.6	4.2	7.0	4.2
	22.5	5.2	3.9	5.4	4.1	5.8	4.0	6.0	4.3	6.2	4.3	6.6	4.2	7.0	4.2
	25.0	5.2	3.9	5.3	4.0	5.7	4.0	5.9	4.3	6.1	4.2	6.5	4.2	6.9	4.1
	27.5	5.1	3.9	5.3	4.0	5.6	4.0	5.8	4.2	6.0	4.2	6.4	4.2	6.9	4.1
	30.0	5.1	3.9	5.2	4.0	5.6	4.0	5.8	4.2	6.0	4.2	6.4	4.2	6.8	4.1
	32.5	5.0	3.8	5.1	3.9	5.5	3.9	5.7	4.2	5.9	4.2	6.3	4.1	6.7	4.1
	35.0	5.0	3.8	5.1	3.9	5.4	3.9	5.6	4.1	5.8	4.1	6.2	4.1	6.7	4.1
	37.5	4.9	3.8	5.0	3.9	5.4	3.9	5.6	4.1	5.8	4.1	6.2	4.1	6.6	4.0
	40.0	4.9	3.8	4.9	3.9	5.3	3.8	5.5	4.1	5.7	4.1	6.1	4.1	6.5	4.0
	43.0	4.8	3.7	4.9	3.8	5.2	3.8	5.4	4.1	5.6	4.1	6.0	4.0	6.5	4.0
	46.0	3.7	3.2	3.8	3.3	4.2	3.4	4.4	3.6	4.6	3.6	5.0	3.6	5.4	3.6
56 (6.3)	20.0	6.0	4.7	6.1	4.8	6.6	4.8	6.8	5.1	7.0	5.1	7.4	5.1	7.9	5.0
	22.5	5.9	4.7	6.1	4.8	6.5	4.8	6.7	5.1	6.9	5.1	7.4	5.0	7.8	5.0
	25.0	5.8	4.6	6.0	4.8	6.4	4.8	6.6	5.1	6.9	5.1	7.3	5.0	7.8	4.9
	27.5	5.8	4.6	5.9	4.7	6.3	4.7	6.6	5.0	6.8	5.0	7.2	5.0	7.7	4.9
	30.0	5.7	4.6	5.8	4.7	6.3	4.7	6.5	5.0	6.7	5.0	7.2	5.0	7.6	4.9
	32.5	5.7	4.6	5.8	4.7	6.2	4.7	6.4	5.0	6.6	5.0	7.1	4.9	7.6	4.9
	35.0	5.6	4.5	5.7	4.6	6.1	4.6	6.3	4.9	6.6	4.9	7.0	4.9	7.5	4.8
	37.5	5.5	4.5	5.6	4.6	6.1	4.6	6.3	4.9	6.5	4.9	7.0	4.9	7.4	4.8
	40.0	5.5	4.5	5.6	4.6	6.0	4.6	6.2	4.9	6.4	4.9	6.9	4.8	7.4	4.8
	43.0	5.4	4.4	5.5	4.5	5.9	4.5	6.1	4.9	6.3	4.9	6.8	4.8	7.3	4.8
	46.0	4.2	3.9	4.3	4.0	4.7	4.1	4.9	4.4	5.2	4.4	5.6	4.4	6.1	4.4
63 (7.1)	20.0	6.7	5.1	6.9	5.2	7.4	5.2	7.6	5.5	7.9	5.5	8.4	5.4	8.9	5.3
	22.5	6.6	5.0	6.8	5.2	7.3	5.1	7.6	5.5	7.8	5.4	8.3	5.4	8.8	5.3
	25.0	6.6	5.0	6.8	5.1	7.2	5.1	7.5	5.4	7.7	5.4	8.2	5.4	8.8	5.3
	27.5	6.5	5.0	6.7	5.1	7.2	5.1	7.4	5.4	7.6	5.4	8.2	5.3	8.7	5.3
	30.0	6.4	4.9	6.6	5.1	7.1	5.0	7.3	5.4	7.6	5.3	8.1	5.3	8.6	5.2
	32.5	6.4	4.9	6.5	5.0	7.0	5.0	7.2	5.3	7.5	5.3	8.0	5.3	8.5	5.2
	35.0	6.3	4.9	6.4	5.0	6.9	5.0	7.1	5.3	7.4	5.3	7.9	5.2	8.5	5.2
	37.5	6.2	4.8	6.3	4.9	6.8	4.9	7.1	5.3	7.3	5.2	7.8	5.2	8.4	5.2
	40.0	6.2	4.8	6.3	4.9	6.7	4.9	7.0	5.2	7.2	5.2	7.8	5.2	8.3	5.1
	43.0	6.1	4.8	6.2	4.9	6.7	4.9	6.9	5.2	7.1	5.2	7.7	5.1	8.2	5.1
	46.0	4.7	4.1	4.8	4.3	5.3	4.3	5.6	4.6	5.8	4.6	6.3	4.6	6.9	4.6

kcal/h=kW x 860 , BTU/h = kW x 3,412

2-1. Cooling capacity with PUMY-P100-140YHMC-C/VHMC-S

PEFY-P-VMM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp. 21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.9	2.7	1.9
	22.5	2.0	1.7	2.1	1.8	2.3	1.8	2.3	1.9	2.4	1.9	2.6	1.9	2.7	1.9
	25.0	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.8
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.8
	30.0	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.3	1.9	2.5	1.9	2.6	1.8
	32.5	1.9	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.8
	35.0	1.9	1.7	2.0	1.8	2.1	1.7	2.2	1.9	2.3	1.9	2.4	1.8	2.5	1.8
	37.5	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.9	2.2	1.8	2.4	1.8	2.5	1.8
	40.0	1.8	1.6	1.9	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.4	1.8	2.5	1.8
	43.0	1.8	1.6	1.9	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8
	46.0	1.7	1.6	1.9	1.7	2.0	1.7	2.1	1.8	2.1	1.8	2.3	1.8	2.4	1.8
25 (2.8)	20.0	2.6	2.0	2.8	2.1	2.9	2.1	3.0	2.2	3.1	2.2	3.3	2.2	3.4	2.1
	22.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.2	3.1	2.2	3.2	2.1	3.4	2.1
	25.0	2.6	2.0	2.7	2.1	2.9	2.0	2.9	2.2	3.0	2.2	3.2	2.1	3.4	2.1
	27.5	2.5	2.0	2.7	2.1	2.8	2.0	2.9	2.2	3.0	2.1	3.2	2.1	3.3	2.1
	30.0	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.3	2.1
	32.5	2.5	1.9	2.6	2.0	2.8	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.4	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.2	2.0
	37.5	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.1	2.8	2.1	3.0	2.1	3.2	2.0
	40.0	2.3	1.9	2.5	2.0	2.7	2.0	2.7	2.1	2.8	2.1	3.0	2.1	3.2	2.0
	43.0	2.3	1.8	2.4	1.9	2.6	1.9	2.7	2.1	2.7	2.0	3.0	2.0	3.1	2.0
	46.0	2.2	1.8	2.4	1.9	2.6	1.9	2.6	2.0	2.7	2.0	2.9	2.0	3.1	2.0
32 (3.6)	20.0	3.4	2.5	3.6	2.6	3.7	2.6	3.9	2.8	4.0	2.8	4.2	2.7	4.4	2.7
	22.5	3.3	2.5	3.5	2.6	3.7	2.6	3.8	2.8	4.0	2.7	4.2	2.7	4.4	2.6
	25.0	3.3	2.5	3.5	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.3	2.6
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.9	2.7	4.1	2.7	4.3	2.6
	30.0	3.2	2.5	3.4	2.6	3.6	2.5	3.7	2.7	3.8	2.7	4.1	2.6	4.2	2.6
	32.5	3.2	2.4	3.3	2.5	3.6	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.1	2.4	3.3	2.5	3.5	2.5	3.6	2.7	3.7	2.6	4.0	2.6	4.2	2.6
	37.5	3.1	2.4	3.2	2.5	3.5	2.5	3.6	2.6	3.7	2.6	3.9	2.6	4.1	2.5
	40.0	3.0	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.9	2.6	4.1	2.5
	43.0	2.9	2.3	3.1	2.4	3.4	2.4	3.4	2.6	3.5	2.6	3.8	2.6	4.0	2.5
	46.0	2.9	2.3	3.0	2.4	3.3	2.4	3.4	2.6	3.5	2.5	3.7	2.5	3.9	2.5
40 (4.5)	20.0	4.2	3.3	4.4	3.4	4.7	3.4	4.8	3.6	5.0	3.6	5.3	3.5	5.5	3.4
	22.5	4.2	3.2	4.4	3.4	4.6	3.3	4.8	3.6	4.9	3.5	5.2	3.5	5.5	3.4
	25.0	4.1	3.2	4.3	3.4	4.6	3.3	4.7	3.5	4.9	3.5	5.2	3.5	5.4	3.4
	27.5	4.1	3.2	4.3	3.3	4.5	3.3	4.7	3.5	4.8	3.5	5.1	3.4	5.4	3.4
	30.0	4.0	3.2	4.2	3.3	4.5	3.3	4.6	3.5	4.8	3.5	5.1	3.4	5.3	3.4
	32.5	4.0	3.1	4.2	3.3	4.4	3.3	4.6	3.5	4.7	3.4	5.0	3.4	5.3	3.3
	35.0	3.9	3.1	4.1	3.3	4.4	3.2	4.5	3.4	4.6	3.4	4.9	3.4	5.2	3.3
	37.5	3.8	3.1	4.0	3.2	4.3	3.2	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	40.0	3.8	3.0	4.0	3.2	4.3	3.2	4.4	3.4	4.5	3.4	4.8	3.3	5.1	3.3
	43.0	3.7	3.0	3.9	3.2	4.2	3.2	4.3	3.4	4.4	3.3	4.8	3.3	5.0	3.2
	46.0	3.6	3.0	3.8	3.1	4.1	3.1	4.2	3.3	4.3	3.3	4.7	3.3	4.9	3.2
50 (5.6)	20.0	5.3	4.0	5.5	4.1	5.8	4.1	6.0	4.3	6.2	4.3	6.6	4.2	6.9	4.2
	22.5	5.2	3.9	5.5	4.1	5.8	4.1	6.0	4.3	6.1	4.3	6.5	4.2	6.8	4.1
	25.0	5.2	3.9	5.4	4.1	5.7	4.0	5.9	4.3	6.1	4.3	6.4	4.2	6.7	4.1
	27.5	5.1	3.9	5.3	4.1	5.7	4.0	5.8	4.2	6.0	4.2	6.4	4.2	6.7	4.1
	30.0	5.0	3.9	5.3	4.0	5.6	4.0	5.8	4.2	5.9	4.2	6.3	4.1	6.6	4.1
	32.5	4.9	3.8	5.2	4.0	5.5	4.0	5.7	4.2	5.9	4.2	6.2	4.1	6.5	4.0
	35.0	4.9	3.8	5.1	3.9	5.5	3.9	5.6	4.2	5.8	4.1	6.2	4.1	6.5	4.0
	37.5	4.8	3.7	5.0	3.9	5.4	3.9	5.5	4.1	5.7	4.1	6.1	4.1	6.4	4.0
	40.0	4.7	3.7	4.9	3.9	5.3	3.9	5.5	4.1	5.6	4.1	6.0	4.0	6.3	4.0
	43.0	4.6	3.6	4.8	3.8	5.2	3.8	5.4	4.1	5.5	4.0	5.9	4.0	6.2	3.9
	46.0	4.4	3.6	4.7	3.8	5.2	3.8	5.3	4.0	5.4	4.0	5.8	4.0	6.1	3.9
63 (7.1)	20.0	6.7	5.0	7.0	5.2	7.4	5.1	7.6	5.4	7.9	5.4	8.3	5.3	8.7	5.2
	22.5	6.6	4.9	6.9	5.2	7.3	5.1	7.6	5.4	7.8	5.4	8.2	5.3	8.6	5.2
	25.0	6.5	4.9	6.9	5.1	7.2	5.0	7.5	5.3	7.7	5.3	8.2	5.2	8.5	5.1
	27.5	6.5	4.9	6.8	5.1	7.2	5.0	7.4	5.3	7.6	5.3	8.1	5.2	8.5	5.1
	30.0	6.4	4.8	6.7	5.0	7.1	5.0	7.3	5.3	7.5	5.2	8.0	5.2	8.4	5.1
	32.5	6.3	4.8	6.6	5.0	7.0	4.9	7.2	5.2	7.4	5.2	7.9	5.1	8.3	5.0
	35.0	6.2	4.7	6.5	4.9	6.9	4.9	7.1	5.2	7.3	5.2	7.8	5.1	8.2	5.0
	37.5	6.1	4.7	6.4	4.9	6.8	4.9	7.0	5.2	7.2	5.1	7.7	5.1	8.1	5.0
	40.0	5.9	4.6	6.3	4.8	6.8	4.8	6.9	5.1	7.1	5.1	7.6	5.0	8.0	4.9
	43.0	5.8	4.5	6.1	4.8	6.6	4.8	6.8	5.1	6.9	5.0	7.5	5.0	7.9	4.9
	46.0	5.6	4.5	6.0	4.7	6.5	4.7	6.7	5.0	6.8	5.0	7.4	4.9	7.8	4.9
71 (8.0)	20.0	7.5	5.6	7.9	5.8	8.3	5.7	8.6	6.1	8.9	6.0	9.4	5.9	9.8	5.8
	22.5	7.4	5.5	7.8	5.8	8.3	5.7	8.5	6.0	8.8	6.0	9.3	5.9	9.7	5.8
	25.0	7.4	5.5	7.7	5.7	8.2	5.7	8.4	6.0	8.7	5.9	9.2	5.9	9.6	5.7
	27.5	7.3	5.4	7.6	5.7	8.1	5.6	8.3	5.9	8.6	5.9	9.1	5.8	9.5	5.7
	30.0	7.2	5.4	7.5	5.6	8.0	5.6	8.2	5.9	8.5	5.9	9.0	5.8	9.4	5.7
	32.5	7.1	5.3	7.4	5.6	7.9	5.5	8.1	5.9	8.4	5.8	8.9	5.8	9.3	5.6
	35.0	6.9	5.3	7.3	5.5	7.8	5.5	8.0	5.8	8.2	5.8	8.8	5.7	9.2	5.6
	37.5	6.8	5.2	7.2	5.5	7.7	5.4	7.9	5.8	8.1	5.7	8.7	5.7	9.1	5.6
	40.0	6.7	5.2	7.1	5.4	7.6	5.4	7.8	5.7	8.0	5.7	8.6	5.6	9.0	5.5
	43.0	6.5	5.1	6.9	5.3	7.5	5.3	7.7	5.7	7.8	5.6	8.5	5.6	8.9	5.5
	46.0	6.4	5.0	6.8	5.3	7.4	5.3	7.5	5.6	7.7	5.5	8.3	5.5	8.8	5.4

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.5	6.1	8.9	6.3	9.4	6.2	9.7	6.5	10.0	6.5	10.5	6.4	11.0	6.3
	22.5	8.4	6.0	8.8	6.2	9.3	6.2	9.6	6.5	9.9	6.5	10.4	6.4	10.9	6.2
	25.0	8.3	6.0	8.7	6.2	9.2	6.1	9.5	6.5	9.8	6.4	10.3	6.3	10.8	6.2
	27.5	8.2	5.9	8.6	6.1	9.1	6.1	9.4	6.4	9.7	6.4	10.2	6.3	10.7	6.1
	30.0	8.1	5.8	8.5	6.1	9.0	6.0	9.3	6.4	9.5	6.3	10.1	6.2	10.6	6.1
	32.5	7.9	5.8	8.4	6.0	8.9	6.0	9.1	6.3	9.4	6.3	10.0	6.2	10.5	6.1
	35.0	7.8	5.7	8.2	6.0	8.8	5.9	9.0	6.2	9.3	6.2	9.9	6.1	10.4	6.0
	37.5	7.7	5.7	8.1	5.9	8.7	5.9	8.9	6.2	9.1	6.1	9.8	6.1	10.3	6.0
	40.0	7.5	5.6	8.0	5.8	8.6	5.8	8.8	6.1	9.0	6.1	9.7	6.0	10.1	5.9
	43.0	7.3	5.5	7.8	5.7	8.4	5.8	8.6	6.1	8.8	6.0	9.5	6.0	10.0	5.9
	46.0	7.1	5.4	7.6	5.7	8.3	5.7	8.5	6.0	8.6	5.9	9.4	5.9	9.9	5.8
100 (11.2)	20.0	10.5	8.2	11.1	8.6	11.7	8.5	12.0	9.0	12.4	9.0	13.1	8.8	13.7	8.7
	22.5	10.4	8.2	10.9	8.5	11.6	8.4	11.9	9.0	12.3	8.9	13.0	8.8	13.6	8.6
	25.0	10.3	8.1	10.8	8.5	11.4	8.4	11.8	8.9	12.2	8.9	12.9	8.8	13.5	8.6
	27.5	10.2	8.1	10.7	8.4	11.3	8.3	11.7	8.9	12.0	8.8	12.7	8.7	13.4	8.5
	30.0	10.0	8.0	10.5	8.4	11.2	8.3	11.5	8.8	11.9	8.8	12.6	8.7	13.2	8.5
	32.5	9.9	7.9	10.4	8.3	11.1	8.2	11.4	8.8	11.7	8.7	12.5	8.6	13.1	8.4
	35.0	9.7	7.9	10.2	8.2	10.9	8.2	11.2	8.7	11.5	8.6	12.3	8.5	12.9	8.4
	37.5	9.5	7.8	10.1	8.1	10.8	8.1	11.1	8.6	11.4	8.6	12.2	8.5	12.8	8.3
	40.0	9.4	7.7	9.9	8.1	10.7	8.0	10.9	8.6	11.2	8.5	12.0	8.4	12.6	8.3
	43.0	9.1	7.6	9.7	8.0	10.5	8.0	10.7	8.5	11.0	8.4	11.8	8.4	12.4	8.2
	46.0	8.9	7.5	9.5	7.9	10.3	7.9	10.5	8.4	10.7	8.3	11.6	8.3	12.3	8.2
125 (14.0)	20.0	13.2	10.1	13.8	10.5	14.6	10.4	15.1	11.0	15.5	11.0	16.4	10.8	17.2	10.6
	22.5	13.0	10.0	13.7	10.5	14.4	10.3	14.9	11.0	15.4	10.9	16.2	10.7	17.0	10.5
	25.0	12.9	10.0	13.5	10.4	14.3	10.2	14.7	10.9	15.2	10.8	16.1	10.7	16.9	10.4
	27.5	12.7	9.9	13.4	10.3	14.1	10.2	14.6	10.8	15.0	10.8	15.9	10.6	16.7	10.4
	30.0	12.5	9.8	13.2	10.2	14.0	10.1	14.4	10.7	14.8	10.7	15.8	10.6	16.5	10.3
	32.5	12.4	9.7	13.0	10.1	13.8	10.0	14.2	10.7	14.6	10.6	15.6	10.5	16.3	10.3
	35.0	12.2	9.6	12.8	10.0	13.7	10.0	14.0	10.6	14.4	10.5	15.4	10.4	16.2	10.2
	37.5	11.9	9.5	12.6	9.9	13.5	9.9	13.8	10.5	14.2	10.4	15.2	10.3	16.0	10.1
	40.0	11.7	9.4	12.4	9.8	13.3	9.8	13.7	10.4	14.0	10.3	15.0	10.3	15.8	10.1
	43.0	11.4	9.3	12.1	9.7	13.1	9.7	13.4	10.3	13.7	10.2	14.8	10.2	15.6	10.0
	46.0	11.1	9.1	11.8	9.6	12.9	9.6	13.2	10.2	13.4	10.1	14.6	10.1	15.3	9.9

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMA-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp. 21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.1	2.4	2.0	2.6	2.0	2.7	2.0
	22.5	2.0	1.8	2.1	1.9	2.3	1.9	2.3	2.0	2.4	2.0	2.6	2.0	2.7	2.0
	25.0	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.0
	27.5	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.0
	30.0	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.3	2.0	2.5	2.0	2.6	1.9
	32.5	1.9	1.8	2.0	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.4	2.0	2.6	1.9
	35.0	1.9	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.3	2.0	2.4	2.0	2.5	1.9
	37.5	1.9	1.8	2.0	1.8	2.1	1.8	2.2	2.0	2.2	2.0	2.4	1.9	2.5	1.9
	40.0	1.8	1.7	1.9	1.8	2.1	1.8	2.1	2.0	2.2	2.0	2.4	1.9	2.5	1.9
	43.0	1.8	1.7	1.9	1.8	2.1	1.8	2.1	2.0	2.2	1.9	2.3	1.9	2.4	1.9
	46.0	1.7	1.7	1.9	1.8	2.0	1.8	2.1	1.9	2.1	1.9	2.3	1.9	2.4	1.9
25 (2.8)	20.0	2.6	2.2	2.8	2.3	2.9	2.2	3.0	2.4	3.1	2.4	3.3	2.3	3.4	2.3
	22.5	2.6	2.2	2.7	2.3	2.9	2.2	3.0	2.4	3.1	2.4	3.2	2.3	3.4	2.3
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	2.9	2.4	3.0	2.4	3.2	2.3	3.4	2.3
	27.5	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.4	3.0	2.3	3.2	2.3	3.3	2.3
	30.0	2.5	2.1	2.6	2.2	2.8	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.3	2.3
	32.5	2.5	2.1	2.6	2.2	2.8	2.2	2.8	2.3	2.9	2.3	3.1	2.3	3.3	2.2
	35.0	2.4	2.1	2.6	2.2	2.7	2.2	2.8	2.3	2.9	2.3	3.1	2.3	3.2	2.2
	37.5	2.4	2.1	2.5	2.2	2.7	2.1	2.8	2.3	2.8	2.3	3.0	2.3	3.2	2.2
	40.0	2.3	2.0	2.5	2.1	2.7	2.1	2.7	2.3	2.8	2.3	3.0	2.2	3.2	2.2
	43.0	2.3	2.0	2.4	2.1	2.6	2.1	2.7	2.3	2.7	2.2	3.0	2.2	3.1	2.2
	46.0	2.2	2.0	2.4	2.1	2.6	2.1	2.6	2.2	2.7	2.2	2.9	2.2	3.1	2.2
32 (3.6)	20.0	3.4	3.0	3.6	3.2	3.7	3.1	3.9	3.3	4.0	3.3	4.2	3.3	4.4	3.2
	22.5	3.3	3.0	3.5	3.1	3.7	3.1	3.8	3.3	4.0	3.3	4.2	3.3	4.4	3.2
	25.0	3.3	3.0	3.5	3.1	3.7	3.1	3.8	3.3	3.9	3.3	4.1	3.3	4.3	3.2
	27.5	3.3	3.0	3.4	3.1	3.6	3.1	3.7	3.3	3.9	3.3	4.1	3.2	4.3	3.2
	30.0	3.2	2.9	3.4	3.1	3.6	3.1	3.7	3.3	3.8	3.3	4.1	3.2	4.2	3.2
	32.5	3.2	2.9	3.3	3.1	3.6	3.0	3.7	3.3	3.8	3.2	4.0	3.2	4.2	3.2
	35.0	3.1	2.9	3.3	3.0	3.5	3.0	3.6	3.2	3.7	3.2	4.0	3.2	4.2	3.1
	37.5	3.1	2.9	3.2	3.0	3.5	3.0	3.6	3.2	3.7	3.2	3.9	3.2	4.1	3.1
	40.0	3.0	2.8	3.2	3.0	3.4	3.0	3.5	3.2	3.6	3.2	3.9	3.2	4.1	3.1
	43.0	2.9	2.8	3.1	3.0	3.4	3.0	3.4	3.2	3.5	3.2	3.8	3.1	4.0	3.1
	46.0	2.9	2.8	3.0	2.9	3.3	2.9	3.4	3.2	3.5	3.1	3.7	3.1	3.9	3.1
40 (4.5)	20.0	4.2	3.7	4.4	3.9	4.7	3.8	4.8	4.1	5.0	4.1	5.3	4.0	5.5	4.0
	22.5	4.2	3.7	4.4	3.9	4.6	3.8	4.8	4.1	4.9	4.1	5.2	4.0	5.5	3.9
	25.0	4.1	3.7	4.3	3.8	4.6	3.8	4.7	4.1	4.9	4.1	5.2	4.0	5.4	3.9
	27.5	4.1	3.6	4.3	3.8	4.5	3.8	4.7	4.1	4.8	4.0	5.1	4.0	5.4	3.9
	30.0	4.0	3.6	4.2	3.8	4.5	3.8	4.6	4.0	4.8	4.0	5.1	4.0	5.3	3.9
	32.5	4.0	3.6	4.2	3.8	4.4	3.7	4.6	4.0	4.7	4.0	5.0	3.9	5.3	3.9
	35.0	3.9	3.6	4.1	3.7	4.4	3.7	4.5	4.0	4.6	4.0	4.9	3.9	5.2	3.9
	37.5	3.8	3.5	4.0	3.7	4.3	3.7	4.5	4.0	4.6	3.9	4.9	3.9	5.1	3.8
	40.0	3.8	3.5	4.0	3.7	4.3	3.7	4.4	3.9	4.5	3.9	4.8	3.9	5.1	3.8
	43.0	3.7	3.5	3.9	3.6	4.2	3.6	4.3	3.9	4.4	3.9	4.8	3.9	5.0	3.8
	46.0	3.6	3.4	3.8	3.6	4.1	3.6	4.2	3.9	4.3	3.8	4.7	3.8	4.9	3.8
50 (5.6)	20.0	5.3	4.5	5.5	4.7	5.8	4.7	6.0	5.0	6.2	5.0	6.6	4.9	6.9	4.8
	22.5	5.2	4.5	5.5	4.7	5.8	4.7	6.0	5.0	6.1	5.0	6.5	4.9	6.8	4.8
	25.0	5.2	4.5	5.4	4.7	5.7	4.6	5.9	5.0	6.1	4.9	6.4	4.9	6.7	4.8
	27.5	5.1	4.5	5.3	4.7	5.7	4.6	5.8	4.9	6.0	4.9	6.4	4.9	6.7	4.8
	30.0	5.0	4.4	5.3	4.6	5.6	4.6	5.8	4.9	5.9	4.9	6.3	4.8	6.6	4.7
	32.5	4.9	4.4	5.2	4.6	5.5	4.6	5.7	4.9	5.9	4.9	6.2	4.8	6.5	4.7
	35.0	4.9	4.4	5.1	4.6	5.5	4.5	5.6	4.9	5.8	4.8	6.2	4.8	6.5	4.7
	37.5	4.8	4.3	5.0	4.5	5.4	4.5	5.5	4.8	5.7	4.8	6.1	4.8	6.4	4.7
	40.0	4.7	4.3	4.9	4.5	5.3	4.5	5.5	4.8	5.6	4.8	6.0	4.7	6.3	4.7
	43.0	4.6	4.2	4.8	4.4	5.2	4.4	5.4	4.8	5.5	4.7	5.9	4.7	6.2	4.6
	46.0	4.4	4.2	4.7	4.4	5.2	4.4	5.3	4.7	5.4	4.7	5.8	4.7	6.1	4.6
63 (7.1)	20.0	6.7	5.2	7.0	5.4	7.4	5.3	7.6	5.7	7.9	5.7	8.3	5.6	8.7	5.5
	22.5	6.6	5.2	6.9	5.4	7.3	5.3	7.6	5.7	7.8	5.6	8.2	5.5	8.6	5.4
	25.0	6.5	5.1	6.9	5.3	7.2	5.3	7.5	5.6	7.7	5.6	8.2	5.5	8.5	5.4
	27.5	6.5	5.1	6.8	5.3	7.2	5.2	7.4	5.6	7.6	5.6	8.1	5.5	8.5	5.4
	30.0	6.4	5.0	6.7	5.3	7.1	5.2	7.3	5.5	7.5	5.5	8.0	5.4	8.4	5.3
	32.5	6.3	5.0	6.6	5.2	7.0	5.2	7.2	5.5	7.4	5.5	7.9	5.4	8.3	5.3
	35.0	6.2	5.0	6.5	5.2	6.9	5.1	7.1	5.5	7.3	5.4	7.8	5.4	8.2	5.3
	37.5	6.1	4.9	6.4	5.1	6.8	5.1	7.0	5.4	7.2	5.4	7.7	5.3	8.1	5.2
	40.0	5.9	4.8	6.3	5.1	6.8	5.1	6.9	5.4	7.1	5.3	7.6	5.3	8.0	5.2
	43.0	5.8	4.8	6.1	5.0	6.6	5.0	6.8	5.3	6.9	5.3	7.5	5.3	7.9	5.2
	46.0	5.6	4.7	6.0	5.0	6.5	5.0	6.7	5.3	6.8	5.2	7.4	5.2	7.8	5.1
71 (8.0)	20.0	7.5	5.6	7.9	5.9	8.3	5.8	8.6	6.1	8.9	6.1	9.4	6.0	9.8	5.9
	22.5	7.4	5.6	7.8	5.8	8.3	5.8	8.5	6.1	8.8	6.1	9.3	6.0	9.7	5.9
	25.0	7.4	5.6	7.7	5.8	8.2	5.7	8.4	6.1	8.7	6.0	9.2	5.9	9.6	5.8
	27.5	7.3	5.5	7.6	5.8	8.1	5.7	8.3	6.0	8.6	6.0	9.1	5.9	9.5	5.8
	30.0	7.2	5.5	7.5	5.7	8.0	5.6	8.2	6.0	8.5	5.9	9.0	5.9	9.4	5.8
	32.5	7.1	5.4	7.4	5.7	7.9	5.6	8.1	5.9	8.4	5.9	8.9	5.8	9.3	5.7
	35.0	6.9	5.4	7.3	5.6	7.8	5.6	8.0	5.9	8.2	5.9	8.8	5.8	9.2	5.7
	37.5	6.8	5.3	7.2	5.5	7.7	5.5	7.9	5.9	8.1	5.8	8.7	5.8	9.1	5.6
	40.0	6.7	5.2	7.1	5.5	7.6	5.5	7.8	5.8	8.0	5.8	8.6	5.7	9.0	5.6
	43.0	6.5	5.2	6.9	5.4	7.5	5.4	7.7	5.7	7.8	5.7	8.5	5.7	8.9	5.6
	46.0	6.4	5.1	6.8	5.3	7.4	5.4	7.5	5.7	7.7	5.6	8.3	5.6	8.8	5.5

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMA-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.5	6.1	8.9	6.3	9.4	6.3	9.7	6.6	10.0	6.6	10.5	6.5	11.0	6.3
	22.5	8.4	6.1	8.8	6.3	9.3	6.2	9.6	6.6	9.9	6.5	10.4	6.4	10.9	6.3
	25.0	8.3	6.0	8.7	6.2	9.2	6.2	9.5	6.5	9.8	6.5	10.3	6.4	10.8	6.2
	27.5	8.2	5.9	8.6	6.2	9.1	6.1	9.4	6.5	9.7	6.4	10.2	6.3	10.7	6.2
	30.0	8.1	5.9	8.5	6.1	9.0	6.1	9.3	6.4	9.5	6.4	10.1	6.3	10.6	6.1
	32.5	7.9	5.8	8.4	6.1	8.9	6.0	9.1	6.4	9.4	6.3	10.0	6.2	10.5	6.1
	35.0	7.8	5.8	8.2	6.0	8.8	6.0	9.0	6.3	9.3	6.3	9.9	6.2	10.4	6.1
	37.5	7.7	5.7	8.1	5.9	8.7	5.9	8.9	6.2	9.1	6.2	9.8	6.2	10.3	6.0
	40.0	7.5	5.6	8.0	5.9	8.6	5.9	8.8	6.2	9.0	6.1	9.7	6.1	10.1	6.0
	43.0	7.3	5.5	7.8	5.8	8.4	5.8	8.6	6.1	8.8	6.1	9.5	6.0	10.0	5.9
	46.0	7.1	5.4	7.6	5.7	8.3	5.8	8.5	6.1	8.6	6.0	9.4	6.0	9.9	5.9
100 (11.2)	20.0	10.5	8.4	11.1	8.7	11.7	8.6	12.0	9.2	12.4	9.1	13.1	9.0	13.7	8.8
	22.5	10.4	8.3	10.9	8.7	11.6	8.6	11.9	9.1	12.3	9.1	13.0	8.9	13.6	8.8
	25.0	10.3	8.3	10.8	8.6	11.4	8.5	11.8	9.1	12.2	9.0	12.9	8.9	13.5	8.7
	27.5	10.2	8.2	10.7	8.6	11.3	8.5	11.7	9.0	12.0	9.0	12.7	8.8	13.4	8.7
	30.0	10.0	8.1	10.5	8.5	11.2	8.4	11.5	9.0	11.9	8.9	12.6	8.8	13.2	8.6
	32.5	9.9	8.1	10.4	8.4	11.1	8.3	11.4	8.9	11.7	8.8	12.5	8.7	13.1	8.6
	35.0	9.7	8.0	10.2	8.3	10.9	8.3	11.2	8.8	11.5	8.8	12.3	8.7	12.9	8.5
	37.5	9.5	7.9	10.1	8.3	10.8	8.2	11.1	8.8	11.4	8.7	12.2	8.6	12.8	8.5
	40.0	9.4	7.8	9.9	8.2	10.7	8.2	10.9	8.7	11.2	8.6	12.0	8.6	12.6	8.4
	43.0	9.1	7.7	9.7	8.1	10.5	8.1	10.7	8.6	11.0	8.5	11.8	8.5	12.4	8.4
	46.0	8.9	7.6	9.5	8.0	10.3	8.0	10.5	8.6	10.7	8.5	11.6	8.4	12.3	8.3
125 (14.0)	20.0	13.2	10.2	13.8	10.6	14.6	10.5	15.1	11.1	15.5	11.1	16.4	10.9	17.2	10.7
	22.5	13.0	10.1	13.7	10.6	14.4	10.4	14.9	11.1	15.4	11.0	16.2	10.8	17.0	10.6
	25.0	12.9	10.0	13.5	10.5	14.3	10.3	14.7	11.0	15.2	10.9	16.1	10.8	16.9	10.6
	27.5	12.7	10.0	13.4	10.4	14.1	10.3	14.6	10.9	15.0	10.9	15.9	10.7	16.7	10.5
	30.0	12.5	9.9	13.2	10.3	14.0	10.2	14.4	10.9	14.8	10.8	15.8	10.7	16.5	10.4
	32.5	12.4	9.8	13.0	10.2	13.8	10.1	14.2	10.8	14.6	10.7	15.6	10.6	16.3	10.4
	35.0	12.2	9.7	12.8	10.1	13.7	10.1	14.0	10.7	14.4	10.6	15.4	10.5	16.2	10.3
	37.5	11.9	9.6	12.6	10.0	13.5	10.0	13.8	10.6	14.2	10.5	15.2	10.5	16.0	10.3
	40.0	11.7	9.5	12.4	9.9	13.3	9.9	13.7	10.5	14.0	10.5	15.0	10.4	15.8	10.2
	43.0	11.4	9.3	12.1	9.8	13.1	9.8	13.4	10.4	13.7	10.3	14.8	10.3	15.6	10.1
	46.0	11.1	9.2	11.8	9.7	12.9	9.7	13.2	10.3	13.4	10.2	14.6	10.2	15.3	10.0
140 (16.0)	20.0	15.0	11.5	15.8	12.0	16.7	11.8	17.2	12.5	17.7	12.5	18.7	12.3	19.6	12.0
	22.5	14.9	11.4	15.6	11.9	16.5	11.7	17.0	12.5	17.6	12.4	18.6	12.2	19.5	11.9
	25.0	14.7	11.3	15.5	11.8	16.3	11.7	16.8	12.4	17.4	12.3	18.4	12.1	19.3	11.9
	27.5	14.5	11.2	15.3	11.7	16.2	11.6	16.7	12.3	17.2	12.2	18.2	12.1	19.1	11.8
	30.0	14.3	11.1	15.1	11.6	16.0	11.5	16.5	12.2	16.9	12.1	18.0	12.0	18.9	11.7
	32.5	14.1	11.0	14.9	11.5	15.8	11.4	16.3	12.1	16.7	12.0	17.8	11.9	18.7	11.7
	35.0	13.9	10.9	14.6	11.4	15.6	11.3	16.0	12.0	16.5	11.9	17.6	11.8	18.5	11.6
	37.5	13.6	10.8	14.4	11.3	15.4	11.3	15.8	11.9	16.2	11.8	17.4	11.8	18.3	11.5
	40.0	13.4	10.7	14.1	11.2	15.2	11.2	15.6	11.9	16.0	11.7	17.2	11.7	18.0	11.4
	43.0	13.0	10.5	13.8	11.0	15.0	11.1	15.3	11.7	15.7	11.6	16.9	11.6	17.8	11.4
	46.0	12.7	10.4	13.5	10.9	14.7	11.0	15.0	11.6	15.3	11.5	16.6	11.5	17.5	11.3

kcal/h=kW x 860 , BTU/h = kW x 3,412

2-2. Cooling capacity with PUMY-P200-250YKMC-C

PEFY-P-VMM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.8	2.4	1.8	2.4	2.0	2.5	2.0	2.7	1.9	2.8	1.9
	22.5	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.7	1.9
	25.0	2.0	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.6	1.9	2.6	1.8
	30.0	2.0	1.7	2.0	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.8
	32.5	1.9	1.7	2.0	1.7	2.2	1.7	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.8
	35.0	1.8	1.6	1.9	1.7	2.1	1.7	2.2	1.9	2.3	1.9	2.4	1.8	2.5	1.8
	37.5	1.8	1.6	1.9	1.7	2.1	1.7	2.2	1.9	2.2	1.8	2.4	1.8	2.5	1.8
	40.0	1.8	1.6	1.8	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.4	1.8	2.4	1.8
	43.0	1.7	1.6	1.8	1.6	1.9	1.7	2.0	1.8	2.1	1.8	2.3	1.8	2.4	1.8
	46.0	1.6	1.5	1.7	1.6	1.8	1.6	1.9	1.8	2.0	1.8	2.2	1.8	2.3	1.7
25 (2.8)	20.0	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.5	2.1
	22.5	2.6	2.0	2.7	2.1	2.9	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.4	2.1
	25.0	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.2	3.1	2.2	3.3	2.2	3.4	2.1
	27.5	2.5	2.0	2.6	2.0	2.9	2.0	3.0	2.2	3.1	2.2	3.3	2.2	3.4	2.1
	30.0	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.2	3.1	2.2	3.2	2.1	3.3	2.1
	32.5	2.4	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.3	2.1
	35.0	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.2	2.0
	37.5	2.3	1.9	2.4	1.9	2.6	1.9	2.7	2.1	2.9	2.1	3.1	2.1	3.2	2.0
	40.0	2.2	1.8	2.3	1.9	2.5	1.9	2.7	2.1	2.8	2.1	3.0	2.0	3.1	2.0
	43.0	2.1	1.8	2.2	1.9	2.5	1.9	2.6	2.0	2.7	2.0	2.9	2.0	3.0	2.0
	46.0	2.0	1.7	2.1	1.8	2.4	1.8	2.5	2.0	2.5	2.0	2.8	2.0	2.9	1.9
32 (3.6)	20.0	3.4	2.6	3.6	2.7	3.9	2.7	4.0	2.8	4.1	2.8	4.4	2.8	4.5	2.7
	22.5	3.4	2.5	3.5	2.6	3.8	2.6	3.9	2.8	4.1	2.8	4.3	2.8	4.4	2.7
	25.0	3.3	2.5	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.4	2.6
	27.5	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.7	4.0	2.8	4.2	2.7	4.3	2.6
	30.0	3.2	2.5	3.3	2.5	3.6	2.5	3.8	2.7	3.9	2.7	4.1	2.7	4.3	2.6
	32.5	3.1	2.4	3.2	2.5	3.5	2.5	3.7	2.7	3.9	2.7	4.1	2.7	4.2	2.6
	35.0	3.0	2.4	3.2	2.5	3.5	2.5	3.6	2.7	3.8	2.7	4.0	2.6	4.1	2.6
	37.5	3.0	2.3	3.1	2.4	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.6	4.1	2.5
	40.0	2.9	2.3	3.0	2.4	3.3	2.4	3.4	2.6	3.6	2.6	3.9	2.6	4.0	2.5
	43.0	2.7	2.2	2.9	2.3	3.2	2.4	3.3	2.5	3.5	2.5	3.7	2.5	3.9	2.5
	46.0	2.6	2.2	2.7	2.3	3.0	2.3	3.2	2.5	3.3	2.5	3.6	2.5	3.8	2.4
40 (4.5)	20.0	4.3	3.3	4.5	3.4	4.8	3.4	5.0	3.6	5.1	3.6	5.4	3.6	5.6	3.5
	22.5	4.2	3.3	4.4	3.4	4.7	3.4	4.9	3.6	5.1	3.6	5.4	3.6	5.5	3.4
	25.0	4.1	3.2	4.3	3.4	4.7	3.4	4.9	3.6	5.0	3.6	5.4	3.5	5.5	3.4
	27.5	4.1	3.2	4.2	3.3	4.6	3.3	4.8	3.5	5.0	3.6	5.3	3.5	5.4	3.4
	30.0	4.0	3.2	4.1	3.3	4.5	3.3	4.7	3.5	4.9	3.5	5.2	3.5	5.4	3.4
	32.5	3.9	3.1	4.1	3.2	4.4	3.2	4.6	3.5	4.8	3.5	5.1	3.4	5.3	3.3
	35.0	3.8	3.1	4.0	3.2	4.3	3.2	4.5	3.4	4.7	3.4	5.0	3.4	5.2	3.3
	37.5	3.7	3.0	3.9	3.1	4.2	3.2	4.4	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	40.0	3.6	3.0	3.7	3.1	4.1	3.1	4.3	3.3	4.5	3.3	4.8	3.3	5.0	3.2
	43.0	3.4	2.9	3.6	3.0	4.0	3.1	4.1	3.3	4.3	3.3	4.7	3.3	4.9	3.2
	46.0	3.3	2.8	3.4	2.9	3.8	3.0	4.0	3.2	4.1	3.2	4.5	3.2	4.7	3.2
50 (5.6)	20.0	5.3	4.0	5.5	4.1	6.0	4.2	6.2	4.4	6.4	4.4	6.8	4.3	7.0	4.2
	22.5	5.3	4.0	5.5	4.1	5.9	4.1	6.1	4.4	6.3	4.4	6.7	4.3	6.9	4.2
	25.0	5.2	3.9	5.4	4.1	5.8	4.1	6.0	4.3	6.3	4.3	6.7	4.3	6.8	4.1
	27.5	5.1	3.9	5.3	4.0	5.7	4.0	5.9	4.3	6.2	4.3	6.6	4.2	6.7	4.1
	30.0	5.0	3.8	5.2	4.0	5.6	4.0	5.9	4.3	6.1	4.3	6.4	4.2	6.7	4.1
	32.5	4.9	3.8	5.0	3.9	5.5	3.9	5.8	4.2	6.0	4.2	6.3	4.2	6.6	4.0
	35.0	4.7	3.7	4.9	3.9	5.4	3.9	5.6	4.2	5.9	4.2	6.2	4.1	6.4	4.0
	37.5	4.6	3.6	4.8	3.8	5.3	3.8	5.5	4.1	5.7	4.1	6.1	4.1	6.3	4.0
	40.0	4.5	3.6	4.6	3.7	5.1	3.8	5.3	4.0	5.5	4.0	6.0	4.0	6.2	3.9
	43.0	4.3	3.5	4.5	3.7	4.9	3.7	5.2	4.0	5.4	4.0	5.8	4.0	6.0	3.9
	46.0	4.1	3.4	4.3	3.6	4.7	3.6	4.9	3.9	5.1	3.9	5.7	3.9	5.9	3.8
63 (7.1)	20.0	6.7	5.0	7.0	5.2	7.6	5.2	7.9	5.5	8.1	5.5	8.6	5.4	8.9	5.2
	22.5	6.7	5.0	7.0	5.2	7.5	5.1	7.7	5.5	8.0	5.5	8.5	5.4	8.7	5.2
	25.0	6.5	4.9	6.8	5.1	7.4	5.1	7.7	5.4	8.0	5.4	8.4	5.4	8.7	5.2
	27.5	6.5	4.9	6.7	5.0	7.2	5.0	7.5	5.4	7.9	5.4	8.3	5.3	8.5	5.1
	30.0	6.3	4.8	6.5	5.0	7.1	5.0	7.5	5.3	7.7	5.3	8.2	5.2	8.4	5.1
	32.5	6.2	4.7	6.4	4.9	7.0	4.9	7.3	5.3	7.6	5.3	8.0	5.2	8.3	5.0
	35.0	6.0	4.6	6.2	4.8	6.8	4.9	7.1	5.2	7.5	5.2	7.9	5.1	8.2	5.0
	37.5	5.8	4.6	6.1	4.8	6.7	4.8	7.0	5.1	7.2	5.1	7.7	5.1	8.0	4.9
	40.0	5.7	4.5	5.9	4.7	6.5	4.7	6.7	5.0	7.0	5.0	7.6	5.0	7.9	4.9
	43.0	5.4	4.4	5.7	4.6	6.2	4.6	6.5	4.9	6.8	5.0	7.4	4.9	7.7	4.8
	46.0	5.2	4.3	5.4	4.4	6.0	4.5	6.2	4.8	6.5	4.8	7.2	4.9	7.5	4.7
71 (8.0)	20.0	7.6	5.6	7.9	5.8	8.6	5.8	8.9	6.2	9.1	6.1	9.7	6.1	10.0	5.9
	22.5	7.5	5.6	7.8	5.8	8.4	5.8	8.7	6.1	9.0	6.1	9.6	6.0	9.8	5.8
	25.0	7.4	5.5	7.7	5.7	8.3	5.7	8.6	6.1	9.0	6.1	9.5	6.0	9.8	5.8
	27.5	7.3	5.5	7.5	5.6	8.2	5.6	8.5	6.0	8.9	6.0	9.4	5.9	9.6	5.7
	30.0	7.1	5.4	7.4	5.5	8.0	5.6	8.4	6.0	8.7	6.0	9.2	5.9	9.5	5.7
	32.5	7.0	5.3	7.2	5.5	7.8	5.5	8.2	5.9	8.6	5.9	9.0	5.8	9.4	5.6
	35.0	6.7	5.2	7.0	5.4	7.7	5.4	8.0	5.8	8.4	5.8	8.9	5.7	9.2	5.6
	37.5	6.6	5.1	6.9	5.3	7.5	5.4	7.8	5.7	8.2	5.7	8.7	5.7	9.0	5.5
	40.0	6.4	5.0	6.6	5.2	7.3	5.3	7.6	5.6	7.9	5.6	8.6	5.6	8.9	5.5
	43.0	6.1	4.9	6.4	5.1	7.0	5.2	7.4	5.5	7.7	5.5	8.3	5.5	8.6	5.4
	46.0	5.8	4.8	6.1	4.9	6.7	5.0	7.0	5.4	7.3	5.4	8.1	5.4	8.4	5.3

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.6	6.1	8.9	6.3	9.6	6.3	10.0	6.7	10.3	6.6	10.9	6.5	11.3	6.3
	22.5	8.5	6.1	8.8	6.3	9.5	6.2	9.8	6.6	10.2	6.6	10.8	6.5	11.1	6.3
	25.0	8.3	6.0	8.6	6.2	9.4	6.2	9.7	6.6	10.1	6.6	10.7	6.5	11.0	6.2
	27.5	8.2	5.9	8.5	6.1	9.2	6.1	9.5	6.5	10.0	6.5	10.5	6.4	10.8	6.2
	30.0	8.0	5.8	8.3	6.0	9.0	6.0	9.5	6.4	9.8	6.4	10.4	6.3	10.7	6.1
	32.5	7.8	5.7	8.1	5.9	8.8	5.9	9.3	6.4	9.6	6.4	10.2	6.3	10.5	6.1
	35.0	7.6	5.6	7.9	5.8	8.6	5.9	9.0	6.2	9.5	6.3	10.0	6.2	10.4	6.0
	37.5	7.4	5.5	7.7	5.7	8.5	5.8	8.8	6.2	9.2	6.2	9.8	6.1	10.2	5.9
	40.0	7.2	5.4	7.5	5.6	8.2	5.7	8.6	6.0	8.9	6.0	9.6	6.0	10.0	5.9
	43.0	6.8	5.2	7.2	5.5	7.9	5.5	8.3	5.9	8.6	5.9	9.4	5.9	9.7	5.8
	46.0	6.6	5.1	6.8	5.3	7.6	5.4	7.9	5.8	8.2	5.7	9.1	5.8	9.5	5.7
100 (11.2)	20.0	10.6	8.3	11.1	8.6	12.0	8.6	12.4	9.2	12.8	9.1	13.6	9.0	14.0	8.7
	22.5	10.5	8.2	11.0	8.6	11.8	8.5	12.2	9.1	12.7	9.1	13.4	9.0	13.8	8.7
	25.0	10.3	8.1	10.8	8.5	11.6	8.5	12.1	9.1	12.5	9.0	13.3	8.9	13.7	8.6
	27.5	10.2	8.1	10.5	8.4	11.4	8.4	11.9	9.0	12.4	9.0	13.1	8.8	13.4	8.6
	30.0	10.0	8.0	10.3	8.2	11.2	8.3	11.8	8.9	12.2	8.9	12.9	8.8	13.3	8.5
	32.5	9.7	7.9	10.1	8.1	11.0	8.2	11.5	8.8	12.0	8.8	12.7	8.7	13.1	8.4
	35.0	9.4	7.7	9.9	8.0	10.8	8.1	11.2	8.7	11.8	8.7	12.4	8.6	12.9	8.4
	37.5	9.2	7.6	9.6	7.9	10.5	8.0	11.0	8.6	11.4	8.6	12.2	8.5	12.7	8.3
	40.0	9.0	7.5	9.3	7.8	10.2	7.9	10.6	8.4	11.1	8.4	12.0	8.4	12.4	8.2
	43.0	8.5	7.3	9.0	7.6	9.9	7.7	10.3	8.3	10.8	8.3	11.6	8.3	12.1	8.1
	46.0	8.2	7.1	8.5	7.4	9.4	7.5	9.9	8.1	10.2	8.1	11.3	8.2	11.8	8.0
125 (14.0)	20.0	13.3	10.2	13.9	10.5	15.0	10.6	15.5	11.2	16.0	11.1	16.9	11.0	17.5	10.7
	22.5	13.2	10.1	13.7	10.5	14.7	10.4	15.3	11.1	15.8	11.1	16.8	10.9	17.2	10.6
	25.0	12.9	10.0	13.4	10.3	14.6	10.4	15.1	11.0	15.7	11.0	16.7	10.9	17.1	10.5
	27.5	12.7	9.9	13.2	10.2	14.3	10.2	14.8	10.9	15.5	11.0	16.4	10.8	16.8	10.4
	30.0	12.5	9.8	12.9	10.1	14.0	10.1	14.7	10.9	15.3	10.9	16.1	10.7	16.7	10.4
	32.5	12.2	9.6	12.6	9.9	13.7	10.0	14.4	10.8	15.0	10.7	15.8	10.6	16.4	10.3
	35.0	11.8	9.4	12.3	9.8	13.4	9.9	14.0	10.6	14.7	10.6	15.5	10.5	16.1	10.2
	37.5	11.5	9.3	12.0	9.7	13.2	9.8	13.7	10.5	14.3	10.5	15.3	10.4	15.8	10.1
	40.0	11.2	9.2	11.6	9.5	12.7	9.6	13.3	10.3	13.9	10.3	15.0	10.3	15.5	10.0
	43.0	10.6	8.9	11.2	9.3	12.3	9.4	12.9	10.1	13.4	10.1	14.6	10.1	15.1	9.9
	46.0	10.2	8.7	10.6	9.1	11.8	9.2	12.3	9.9	12.7	9.8	14.1	10.0	14.7	9.7

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMA-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp. 21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.2	1.9	2.4	1.9	2.4	2.1	2.5	2.1	2.7	2.0	2.8	2.0
	22.5	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.1	2.5	2.1	2.6	2.0	2.7	2.0
	25.0	2.0	1.8	2.1	1.9	2.3	1.9	2.4	2.1	2.5	2.1	2.6	2.0	2.7	2.0
	27.5	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.6	2.0	2.6	2.0
	30.0	2.0	1.8	2.0	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.6	1.9
	32.5	1.9	1.8	2.0	1.8	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.6	1.9
	35.0	1.8	1.7	1.9	1.8	2.1	1.8	2.2	2.0	2.3	2.0	2.4	2.0	2.5	1.9
	37.5	1.8	1.7	1.9	1.8	2.1	1.8	2.2	2.0	2.2	2.0	2.4	2.0	2.5	1.9
	40.0	1.8	1.7	1.8	1.8	2.0	1.8	2.1	1.9	2.2	1.9	2.4	1.9	2.4	1.9
	43.0	1.7	1.7	1.8	1.8	1.9	1.8	2.0	1.9	2.1	1.9	2.3	1.9	2.4	1.9
	46.0	1.6	1.6	1.7	1.7	1.8	1.7	1.9	1.9	2.0	1.9	2.2	1.9	2.3	1.9
25 (2.8)	20.0	2.7	2.2	2.8	2.3	3.0	2.3	3.1	2.4	3.2	2.4	3.4	2.4	3.5	2.3
	22.5	2.6	2.2	2.7	2.3	2.9	2.2	3.1	2.4	3.2	2.4	3.4	2.4	3.4	2.3
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.4	3.1	2.4	3.3	2.4	3.4	2.3
	27.5	2.5	2.1	2.6	2.2	2.9	2.2	3.0	2.4	3.1	2.4	3.3	2.3	3.4	2.3
	30.0	2.5	2.1	2.6	2.2	2.8	2.2	2.9	2.4	3.1	2.4	3.2	2.3	3.3	2.3
	32.5	2.4	2.1	2.5	2.2	2.7	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.3	2.2
	35.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.3	2.9	2.3	3.1	2.3	3.2	2.2
	37.5	2.3	2.0	2.4	2.1	2.6	2.1	2.7	2.3	2.9	2.3	3.1	2.3	3.2	2.2
	40.0	2.2	2.0	2.3	2.1	2.5	2.1	2.7	2.3	2.8	2.3	3.0	2.2	3.1	2.2
	43.0	2.1	1.9	2.2	2.0	2.5	2.1	2.6	2.2	2.7	2.2	2.9	2.2	3.0	2.2
	46.0	2.0	1.9	2.1	2.0	2.4	2.0	2.5	2.2	2.5	2.2	2.8	2.2	2.9	2.1
32 (3.6)	20.0	3.4	3.0	3.6	3.2	3.9	3.2	4.0	3.4	4.1	3.4	4.4	3.3	4.5	3.2
	22.5	3.4	3.0	3.5	3.1	3.8	3.1	3.9	3.4	4.1	3.4	4.3	3.3	4.4	3.2
	25.0	3.3	3.0	3.5	3.1	3.7	3.1	3.9	3.4	4.0	3.3	4.3	3.3	4.4	3.2
	27.5	3.3	3.0	3.4	3.1	3.7	3.1	3.8	3.3	4.0	3.3	4.2	3.3	4.3	3.2
	30.0	3.2	2.9	3.3	3.0	3.6	3.1	3.8	3.3	3.9	3.3	4.1	3.3	4.3	3.2
	32.5	3.1	2.9	3.2	3.0	3.5	3.0	3.7	3.3	3.9	3.3	4.1	3.2	4.2	3.2
	35.0	3.0	2.9	3.2	3.0	3.5	3.0	3.6	3.2	3.8	3.3	4.0	3.2	4.1	3.1
	37.5	3.0	2.8	3.1	3.0	3.4	3.0	3.5	3.2	3.7	3.2	3.9	3.2	4.1	3.1
	40.0	2.9	2.8	3.0	2.9	3.3	2.9	3.4	3.2	3.6	3.2	3.9	3.2	4.0	3.1
	43.0	2.7	2.7	2.9	2.9	3.2	2.9	3.3	3.1	3.5	3.1	3.7	3.1	3.9	3.1
	46.0	2.6	2.6	2.7	2.7	3.0	2.8	3.2	3.1	3.3	3.1	3.6	3.1	3.8	3.0
40 (4.5)	20.0	4.3	3.7	4.5	3.9	4.8	3.9	5.0	4.2	5.1	4.2	5.4	4.1	5.6	4.0
	22.5	4.2	3.7	4.4	3.9	4.7	3.8	4.9	4.1	5.1	4.1	5.4	4.1	5.5	4.0
	25.0	4.1	3.7	4.3	3.8	4.7	3.8	4.9	4.1	5.0	4.1	5.4	4.1	5.5	4.0
	27.5	4.1	3.6	4.2	3.8	4.6	3.8	4.8	4.1	5.0	4.1	5.3	4.0	5.4	3.9
	30.0	4.0	3.6	4.1	3.8	4.5	3.8	4.7	4.1	4.9	4.1	5.2	4.0	5.4	3.9
	32.5	3.9	3.6	4.1	3.7	4.4	3.7	4.6	4.0	4.8	4.0	5.1	4.0	5.3	3.9
	35.0	3.8	3.5	4.0	3.7	4.3	3.7	4.5	4.0	4.7	4.0	5.0	3.9	5.2	3.9
	37.5	3.7	3.5	3.9	3.6	4.2	3.6	4.4	4.0	4.6	3.9	4.9	3.9	5.1	3.8
	40.0	3.6	3.4	3.7	3.6	4.1	3.6	4.3	3.9	4.5	3.9	4.8	3.9	5.0	3.8
	43.0	3.4	3.4	3.6	3.5	4.0	3.5	4.1	3.8	4.3	3.8	4.7	3.8	4.9	3.8
	46.0	3.3	3.3	3.4	3.4	3.8	3.5	4.0	3.8	4.1	3.8	4.5	3.8	4.7	3.7
50 (5.6)	20.0	5.3	4.6	5.5	4.8	6.0	4.7	6.2	5.1	6.4	5.1	6.8	5.0	7.0	4.9
	22.5	5.3	4.5	5.5	4.7	5.9	4.7	6.1	5.1	6.3	5.0	6.7	5.0	6.9	4.8
	25.0	5.2	4.5	5.4	4.7	5.8	4.7	6.0	5.0	6.3	5.0	6.7	5.0	6.8	4.8
	27.5	5.1	4.5	5.3	4.6	5.7	4.6	5.9	5.0	6.2	5.0	6.6	4.9	6.7	4.8
	30.0	5.0	4.4	5.2	4.6	5.6	4.6	5.9	5.0	6.1	5.0	6.4	4.9	6.7	4.8
	32.5	4.9	4.4	5.0	4.5	5.5	4.5	5.8	4.9	6.0	4.9	6.3	4.8	6.6	4.7
	35.0	4.7	4.3	4.9	4.5	5.4	4.5	5.6	4.9	5.9	4.9	6.2	4.8	6.4	4.7
	37.5	4.6	4.2	4.8	4.4	5.3	4.5	5.5	4.8	5.7	4.8	6.1	4.8	6.3	4.7
	40.0	4.5	4.2	4.6	4.4	5.1	4.4	5.3	4.7	5.5	4.7	6.0	4.7	6.2	4.6
	43.0	4.3	4.1	4.5	4.3	4.9	4.3	5.2	4.7	5.4	4.7	5.8	4.7	6.0	4.6
	46.0	4.1	4.0	4.3	4.2	4.7	4.2	4.9	4.6	5.1	4.6	5.7	4.6	5.9	4.5
63 (7.1)	20.0	6.7	5.2	7.0	5.4	7.6	5.4	7.9	5.8	8.1	5.7	8.6	5.7	8.9	5.5
	22.5	6.7	5.2	7.0	5.4	7.5	5.4	7.7	5.7	8.0	5.7	8.5	5.6	8.7	5.5
	25.0	6.5	5.1	6.8	5.3	7.4	5.3	7.7	5.7	8.0	5.7	8.4	5.6	8.7	5.4
	27.5	6.5	5.1	6.7	5.3	7.2	5.3	7.5	5.6	7.9	5.7	8.3	5.6	8.5	5.4
	30.0	6.3	5.0	6.5	5.2	7.1	5.2	7.5	5.6	7.7	5.6	8.2	5.5	8.4	5.4
	32.5	6.2	5.0	6.4	5.1	7.0	5.2	7.3	5.6	7.6	5.5	8.0	5.5	8.3	5.3
	35.0	6.0	4.9	6.2	5.1	6.8	5.1	7.1	5.5	7.5	5.5	7.9	5.4	8.2	5.3
	37.5	5.8	4.8	6.1	5.0	6.7	5.0	7.0	5.4	7.2	5.4	7.7	5.4	8.0	5.2
	40.0	5.7	4.7	5.9	4.9	6.5	4.9	6.7	5.3	7.0	5.3	7.6	5.3	7.9	5.2
	43.0	5.4	4.6	5.7	4.8	6.2	4.9	6.5	5.2	6.8	5.2	7.4	5.2	7.7	5.1
	46.0	5.2	4.5	5.4	4.7	6.0	4.7	6.2	5.1	6.5	5.1	7.2	5.1	7.5	5.0
71 (8.0)	20.0	7.6	5.7	7.9	5.9	8.6	5.9	8.9	6.3	9.1	6.2	9.7	6.1	10.0	6.0
	22.5	7.5	5.6	7.8	5.9	8.4	5.8	8.7	6.2	9.0	6.2	9.6	6.1	9.8	5.9
	25.0	7.4	5.6	7.7	5.8	8.3	5.8	8.6	6.2	9.0	6.2	9.5	6.1	9.8	5.9
	27.5	7.3	5.5	7.5	5.7	8.2	5.7	8.5	6.1	8.9	6.1	9.4	6.0	9.6	5.8
	30.0	7.1	5.4	7.4	5.6	8.0	5.7	8.4	6.1	8.7	6.1	9.2	6.0	9.5	5.8
	32.5	7.0	5.4	7.2	5.5	7.8	5.6	8.2	6.0	8.6	6.0	9.0	5.9	9.4	5.7
	35.0	6.7	5.3	7.0	5.5	7.7	5.5	8.0	5.9	8.4	5.9	8.9	5.8	9.2	5.7
	37.5	6.6	5.2	6.9	5.4	7.5	5.4	7.8	5.8	8.2	5.8	8.7	5.8	9.0	5.6
	40.0	6.4	5.1	6.6	5.3	7.3	5.3	7.6	5.7	7.9	5.7	8.6	5.7	8.9	5.6
	43.0	6.1	5.0	6.4	5.2	7.0	5.2	7.4	5.6	7.7	5.6	8.3	5.6	8.6	5.5
	46.0	5.8	4.8	6.1	5.0	6.7	5.1	7.0	5.5	7.3	5.5	8.1	5.5	8.4	5.4

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMA-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.6	6.1	8.9	6.4	9.6	6.4	10.0	6.7	10.3	6.7	10.9	6.6	11.3	6.4
	22.5	8.5	6.1	8.8	6.3	9.5	6.3	9.8	6.7	10.2	6.6	10.8	6.6	11.1	6.3
	25.0	8.3	6.0	8.6	6.2	9.4	6.2	9.7	6.6	10.1	6.6	10.7	6.5	11.0	6.3
	27.5	8.2	6.0	8.5	6.1	9.2	6.2	9.5	6.5	10.0	6.6	10.5	6.5	10.8	6.2
	30.0	8.0	5.9	8.3	6.0	9.0	6.1	9.5	6.5	9.8	6.5	10.4	6.4	10.7	6.2
	32.5	7.8	5.8	8.1	6.0	8.8	6.0	9.3	6.4	9.6	6.4	10.2	6.3	10.5	6.1
	35.0	7.6	5.6	7.9	5.9	8.6	5.9	9.0	6.3	9.5	6.3	10.0	6.2	10.4	6.1
	37.5	7.4	5.6	7.7	5.8	8.5	5.8	8.8	6.2	9.2	6.2	9.8	6.2	10.2	6.0
	40.0	7.2	5.5	7.5	5.6	8.2	5.7	8.6	6.1	8.9	6.1	9.6	6.1	10.0	5.9
	43.0	6.8	5.3	7.2	5.5	7.9	5.6	8.3	6.0	8.6	6.0	9.4	6.0	9.7	5.8
	46.0	6.6	5.2	6.8	5.4	7.6	5.4	7.9	5.8	8.2	5.8	9.1	5.9	9.5	5.7
100 (11.2)	20.0	10.6	8.4	11.1	8.7	12.0	8.7	12.4	9.3	12.8	9.3	13.6	9.1	14.0	8.9
	22.5	10.5	8.4	11.0	8.7	11.8	8.6	12.2	9.2	12.7	9.2	13.4	9.1	13.8	8.8
	25.0	10.3	8.3	10.8	8.6	11.6	8.6	12.1	9.2	12.5	9.2	13.3	9.1	13.7	8.8
	27.5	10.2	8.2	10.5	8.5	11.4	8.5	11.9	9.1	12.4	9.1	13.1	9.0	13.4	8.7
	30.0	10.0	8.1	10.3	8.4	11.2	8.4	11.8	9.1	12.2	9.0	12.9	8.9	13.3	8.7
	32.5	9.7	8.0	10.1	8.3	11.0	8.3	11.5	9.0	12.0	9.0	12.7	8.8	13.1	8.6
	35.0	9.4	7.8	9.9	8.2	10.8	8.2	11.2	8.8	11.8	8.9	12.4	8.7	12.9	8.5
	37.5	9.2	7.7	9.6	8.1	10.5	8.1	11.0	8.7	11.4	8.7	12.2	8.7	12.7	8.4
	40.0	9.0	7.6	9.3	7.9	10.2	8.0	10.6	8.6	11.1	8.6	12.0	8.6	12.4	8.4
	43.0	8.5	7.4	9.0	7.8	9.9	7.8	10.3	8.5	10.8	8.5	11.6	8.4	12.1	8.2
	46.0	8.2	7.3	8.5	7.6	9.4	7.7	9.9	8.3	10.2	8.3	11.3	8.3	11.8	8.1
125 (14.0)	20.0	13.3	10.2	13.9	10.6	15.0	10.6	15.5	11.3	16.0	11.3	16.9	11.1	17.5	10.8
	22.5	13.2	10.2	13.7	10.6	14.7	10.5	15.3	11.2	15.8	11.2	16.8	11.1	17.2	10.7
	25.0	12.9	10.0	13.4	10.4	14.6	10.5	15.1	11.2	15.7	11.1	16.7	11.0	17.1	10.6
	27.5	12.7	10.0	13.2	10.3	14.3	10.3	14.8	11.0	15.5	11.1	16.4	10.9	16.8	10.5
	30.0	12.5	9.8	12.9	10.2	14.0	10.2	14.7	11.0	15.3	11.0	16.1	10.8	16.7	10.5
	32.5	12.2	9.7	12.6	10.0	13.7	10.1	14.4	10.9	15.0	10.9	15.8	10.7	16.4	10.4
	35.0	11.8	9.5	12.3	9.9	13.4	10.0	14.0	10.7	14.7	10.7	15.5	10.6	16.1	10.3
	37.5	11.5	9.4	12.0	9.8	13.2	9.9	13.7	10.6	14.3	10.6	15.3	10.5	15.8	10.2
	40.0	11.2	9.3	11.6	9.6	12.7	9.7	13.3	10.4	13.9	10.4	15.0	10.4	15.5	10.1
	43.0	10.6	9.0	11.2	9.4	12.3	9.5	12.9	10.2	13.4	10.2	14.6	10.2	15.1	10.0
	46.0	10.2	8.8	10.6	9.2	11.8	9.3	12.3	10.0	12.7	10.0	14.1	10.1	14.7	9.8
140 (16.0)	20.0	15.2	11.6	15.8	12.0	17.1	12.0	17.8	12.8	18.2	12.7	19.4	12.5	20.0	12.1
	22.5	15.0	11.5	15.7	11.9	16.8	11.9	17.4	12.6	18.1	12.6	19.2	12.4	19.7	12.0
	25.0	14.7	11.3	15.4	11.8	16.6	11.8	17.3	12.6	17.9	12.5	19.0	12.4	19.5	12.0
	27.5	14.6	11.2	15.0	11.6	16.3	11.6	17.0	12.4	17.8	12.5	18.7	12.3	19.2	11.9
	30.0	14.2	11.1	14.7	11.5	16.0	11.5	16.8	12.4	17.4	12.3	18.4	12.1	19.0	11.8
	32.5	13.9	10.9	14.4	11.3	15.7	11.4	16.5	12.2	17.1	12.2	18.1	12.0	18.7	11.7
	35.0	13.4	10.7	14.1	11.2	15.4	11.2	16.0	12.0	16.8	12.1	17.8	11.9	18.4	11.6
	37.5	13.1	10.6	13.8	11.0	15.0	11.1	15.7	11.9	16.3	11.9	17.4	11.8	18.1	11.5
	40.0	12.8	10.4	13.3	10.8	14.6	10.9	15.2	11.7	15.8	11.7	17.1	11.7	17.8	11.4
	43.0	12.2	10.1	12.8	10.6	14.1	10.7	14.7	11.5	15.4	11.5	16.6	11.5	17.3	11.2
	46.0	11.7	9.9	12.2	10.3	13.4	10.4	14.1	11.2	14.6	11.2	16.2	11.3	16.8	11.0

kcal/h=kW x 860 , BTU/h = kW x 3,412

2-3. Cooling capacity with PUHY-P300YRJC-A

PEFY-P-VMM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.8	1.9
	22.5	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.8	1.9
	25.0	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.9	2.7	1.9
	27.5	2.1	1.8	2.1	1.8	2.3	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.3	1.9	2.5	1.9	2.6	1.8
	32.5	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.8	2.6	1.8
	35.0	2.0	1.7	2.0	1.8	2.1	1.7	2.2	1.9	2.3	1.9	2.4	1.8	2.5	1.8
	37.5	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.9	2.2	1.8	2.3	1.8	2.5	1.8
	40.0	1.9	1.7	2.0	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8
	43.0	1.8	1.6	1.9	1.7	2.0	1.7	2.1	1.8	2.1	1.8	2.2	1.8	2.3	1.7
	46.0	1.4	1.4	1.5	1.5	1.6	1.5	1.7	1.7	1.7	1.7	1.8	1.6	1.9	1.6
25 (2.8)	20.0	2.7	2.0	2.8	2.1	2.9	2.1	3.0	2.2	3.1	2.2	3.3	2.2	3.5	2.1
	22.5	2.7	2.0	2.8	2.1	2.9	2.1	3.0	2.2	3.1	2.2	3.3	2.2	3.5	2.1
	25.0	2.7	2.0	2.8	2.1	2.9	2.1	3.0	2.2	3.1	2.2	3.3	2.2	3.5	2.1
	27.5	2.7	2.0	2.7	2.1	2.9	2.1	3.0	2.2	3.0	2.2	3.2	2.1	3.4	2.1
	30.0	2.6	2.0	2.7	2.1	2.8	2.0	2.9	2.2	3.0	2.1	3.2	2.1	3.3	2.1
	32.5	2.6	2.0	2.6	2.0	2.8	2.0	2.9	2.1	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.0	2.1	3.2	2.0
	37.5	2.5	1.9	2.5	2.0	2.7	2.0	2.8	2.1	2.8	2.1	3.0	2.0	3.1	2.0
	40.0	2.4	1.9	2.5	2.0	2.6	1.9	2.7	2.1	2.8	2.1	2.9	2.0	3.1	2.0
	43.0	2.4	1.9	2.4	1.9	2.6	1.9	2.6	2.0	2.7	2.0	2.8	2.0	3.0	2.0
	46.0	1.8	1.6	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.5	1.8
32 (3.6)	20.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.6	2.7
	22.5	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.6	2.7
	25.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.2	2.7	4.5	2.7
	27.5	3.4	2.6	3.5	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.6	4.3	2.6
	32.5	3.3	2.5	3.4	2.6	3.6	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.7	2.6	3.9	2.6	4.1	2.5
	37.5	3.2	2.4	3.3	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.6	4.0	2.5
	40.0	3.1	2.4	3.2	2.5	3.4	2.4	3.5	2.6	3.6	2.6	3.7	2.5	3.9	2.5
	43.0	3.0	2.4	3.1	2.4	3.3	2.4	3.4	2.6	3.5	2.5	3.6	2.5	3.8	2.5
	46.0	2.3	2.1	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.3	2.9	2.2	3.2	2.2
40 (4.5)	20.0	4.3	3.3	4.4	3.4	4.7	3.4	4.9	3.6	5.0	3.6	5.3	3.5	5.7	3.5
	22.5	4.3	3.3	4.4	3.4	4.7	3.4	4.9	3.6	5.0	3.6	5.3	3.5	5.7	3.5
	25.0	4.3	3.3	4.4	3.4	4.7	3.4	4.9	3.6	5.0	3.6	5.3	3.5	5.6	3.5
	27.5	4.3	3.3	4.4	3.4	4.6	3.3	4.8	3.5	4.9	3.5	5.2	3.5	5.5	3.4
	30.0	4.2	3.2	4.3	3.3	4.6	3.3	4.7	3.5	4.8	3.5	5.1	3.4	5.4	3.4
	32.5	4.1	3.2	4.2	3.3	4.5	3.3	4.6	3.5	4.7	3.4	5.0	3.4	5.3	3.3
	35.0	4.0	3.2	4.1	3.3	4.4	3.2	4.5	3.4	4.6	3.4	4.9	3.3	5.2	3.3
	37.5	4.0	3.1	4.1	3.2	4.3	3.2	4.4	3.4	4.5	3.4	4.8	3.3	5.0	3.3
	40.0	3.9	3.1	4.0	3.2	4.2	3.2	4.3	3.4	4.4	3.3	4.7	3.3	4.9	3.2
	43.0	3.8	3.1	3.9	3.2	4.1	3.1	4.2	3.3	4.3	3.3	4.5	3.2	4.8	3.2
	46.0	2.9	2.7	3.0	2.8	3.3	2.8	3.4	3.0	3.5	3.0	3.7	2.9	4.0	2.9
50 (5.6)	20.0	5.3	4.0	5.5	4.1	5.9	4.1	6.1	4.3	6.2	4.3	6.6	4.3	7.1	4.2
	22.5	5.3	4.0	5.5	4.1	5.9	4.1	6.1	4.3	6.2	4.3	6.6	4.3	7.1	4.2
	25.0	5.3	4.0	5.5	4.1	5.9	4.1	6.0	4.3	6.2	4.3	6.6	4.2	7.0	4.2
	27.5	5.3	4.0	5.5	4.1	5.8	4.1	5.9	4.3	6.1	4.3	6.4	4.2	6.8	4.1
	30.0	5.2	3.9	5.4	4.1	5.7	4.0	5.8	4.2	6.0	4.2	6.3	4.1	6.7	4.1
	32.5	5.1	3.9	5.3	4.0	5.6	4.0	5.7	4.2	5.9	4.2	6.2	4.1	6.6	4.0
	35.0	5.0	3.9	5.2	4.0	5.5	3.9	5.6	4.2	5.8	4.1	6.1	4.0	6.4	4.0
	37.5	4.9	3.8	5.1	3.9	5.4	3.9	5.5	4.1	5.6	4.1	5.9	4.0	6.3	3.9
	40.0	4.8	3.8	5.0	3.9	5.3	3.8	5.4	4.1	5.5	4.0	5.8	4.0	6.1	3.9
	43.0	4.7	3.7	4.8	3.8	5.1	3.8	5.3	4.0	5.4	4.0	5.6	3.9	6.0	3.8
	46.0	3.6	3.2	3.8	3.3	4.1	3.3	4.2	3.6	4.3	3.6	4.6	3.5	4.9	3.5
63 (7.1)	20.0	6.7	5.0	7.0	5.2	7.5	5.1	7.7	5.4	7.9	5.4	8.4	5.3	9.0	5.3
	22.5	6.7	5.0	7.0	5.2	7.5	5.1	7.7	5.4	7.9	5.4	8.4	5.3	9.0	5.3
	25.0	6.7	5.0	7.0	5.2	7.5	5.1	7.7	5.4	7.9	5.4	8.3	5.3	8.8	5.2
	27.5	6.7	5.0	6.9	5.1	7.3	5.1	7.5	5.4	7.7	5.3	8.1	5.2	8.7	5.2
	30.0	6.6	4.9	6.8	5.1	7.2	5.0	7.4	5.3	7.6	5.3	8.0	5.2	8.5	5.1
	32.5	6.5	4.9	6.7	5.0	7.1	5.0	7.2	5.3	7.4	5.2	7.8	5.1	8.3	5.0
	35.0	6.4	4.8	6.5	5.0	6.9	4.9	7.1	5.2	7.3	5.1	7.7	5.1	8.1	5.0
	37.5	6.2	4.8	6.4	4.9	6.8	4.8	7.0	5.1	7.2	5.1	7.5	5.0	8.0	4.9
	40.0	6.1	4.7	6.3	4.8	6.7	4.8	6.8	5.1	7.0	5.0	7.4	4.9	7.8	4.9
	43.0	6.0	4.6	6.1	4.8	6.5	4.7	6.7	5.0	6.9	5.0	7.2	4.9	7.6	4.8
	46.0	4.6	4.0	4.8	4.2	5.2	4.1	5.3	4.5	5.5	4.4	5.8	4.4	6.2	4.3
71 (8.0)	20.0	7.6	5.6	7.9	5.8	8.4	5.8	8.7	6.1	8.9	6.0	9.5	6.0	10.1	5.9
	22.5	7.6	5.6	7.9	5.8	8.4	5.8	8.7	6.1	8.9	6.0	9.5	6.0	10.1	5.9
	25.0	7.6	5.6	7.9	5.8	8.4	5.8	8.6	6.1	8.9	6.0	9.4	5.9	10.0	5.9
	27.5	7.6	5.6	7.8	5.8	8.3	5.7	8.5	6.0	8.7	6.0	9.2	5.9	9.8	5.8
	30.0	7.4	5.5	7.7	5.7	8.1	5.6	8.3	5.9	8.5	5.9	9.0	5.8	9.6	5.7
	32.5	7.3	5.5	7.5	5.6	8.0	5.6	8.2	5.9	8.4	5.8	8.8	5.7	9.4	5.6
	35.0	7.2	5.4	7.4	5.6	7.8	5.5	8.0	5.8	8.2	5.8	8.6	5.7	9.2	5.6
	37.5	7.0	5.3	7.2	5.5	7.7	5.4	7.9	5.7	8.1	5.7	8.5	5.6	9.0	5.5
	40.0	6.9	5.3	7.1	5.4	7.5	5.4	7.7	5.7	7.9	5.6	8.3	5.5	8.8	5.4
	43.0	6.7	5.2	6.9	5.3	7.3	5.3	7.5	5.6	7.7	5.6	8.1	5.4	8.5	5.3
	46.0	5.2	4.5	5.4	4.6	5.8	4.6	6.0	5.0	6.2	5.0	6.6	4.9	7.0	4.8

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.6	6.1	8.9	6.3	9.5	6.2	9.7	6.6	10.0	6.5	10.6	6.4	11.4	6.4
	22.5	8.6	6.1	8.9	6.3	9.5	6.2	9.7	6.6	10.0	6.5	10.6	6.4	11.4	6.4
	25.0	8.6	6.1	8.9	6.3	9.5	6.2	9.7	6.6	10.0	6.5	10.5	6.4	11.2	6.3
	27.5	8.5	6.1	8.8	6.2	9.3	6.2	9.5	6.5	9.8	6.4	10.3	6.3	11.0	6.2
	30.0	8.4	6.0	8.6	6.2	9.1	6.1	9.4	6.4	9.6	6.3	10.1	6.2	10.8	6.1
	32.5	8.2	5.9	8.5	6.1	8.9	6.0	9.2	6.3	9.4	6.3	9.9	6.2	10.5	6.1
	35.0	8.1	5.8	8.3	6.0	8.8	5.9	9.0	6.2	9.2	6.2	9.7	6.1	10.3	6.0
	37.5	7.9	5.8	8.1	5.9	8.6	5.9	8.8	6.2	9.1	6.1	9.5	6.0	10.1	5.9
	40.0	7.7	5.7	8.0	5.8	8.4	5.8	8.7	6.1	8.9	6.0	9.3	5.9	9.9	5.8
	43.0	7.6	5.6	7.8	5.7	8.2	5.7	8.5	6.0	8.7	6.0	9.1	5.8	9.6	5.7
	46.0	5.9	4.8	6.1	5.0	6.5	4.9	6.8	5.3	7.0	5.3	7.4	5.2	7.9	5.1
100 (11.2)	20.0	10.6	8.3	11.0	8.6	11.8	8.5	12.1	9.1	12.5	9.0	13.2	8.9	14.2	8.8
	22.5	10.6	8.3	11.0	8.6	11.8	8.5	12.1	9.1	12.5	9.0	13.2	8.9	14.2	8.8
	25.0	10.6	8.3	11.0	8.6	11.8	8.5	12.1	9.0	12.4	9.0	13.1	8.8	13.9	8.7
	27.5	10.6	8.3	10.9	8.5	11.6	8.4	11.9	9.0	12.2	8.9	12.9	8.7	13.7	8.6
	30.0	10.4	8.2	10.7	8.4	11.3	8.3	11.6	8.9	12.0	8.8	12.6	8.7	13.4	8.5
	32.5	10.2	8.1	10.5	8.3	11.1	8.3	11.4	8.8	11.7	8.7	12.4	8.6	13.1	8.4
	35.0	10.0	8.0	10.3	8.3	10.9	8.2	11.2	8.7	11.5	8.6	12.1	8.5	12.8	8.3
	37.5	9.8	7.9	10.1	8.2	10.7	8.1	11.0	8.6	11.3	8.5	11.9	8.4	12.6	8.3
	40.0	9.6	7.8	9.9	8.1	10.5	8.0	10.8	8.5	11.1	8.4	11.6	8.3	12.3	8.2
	43.0	9.4	7.7	9.7	8.0	10.2	7.9	10.5	8.4	10.8	8.3	11.3	8.2	12.0	8.1
	46.0	7.3	6.7	7.6	7.0	8.1	7.0	8.4	7.6	8.7	7.5	9.2	7.4	9.8	7.4
125 (14.0)	20.0	13.3	10.2	13.8	10.5	14.7	10.4	15.2	11.1	15.6	11.0	16.6	10.9	17.7	10.7
	22.5	13.3	10.2	13.8	10.5	14.7	10.4	15.2	11.1	15.6	11.0	16.6	10.9	17.7	10.7
	25.0	13.3	10.2	13.8	10.5	14.7	10.4	15.1	11.0	15.5	11.0	16.4	10.8	17.4	10.6
	27.5	13.3	10.1	13.6	10.4	14.4	10.3	14.8	10.9	15.2	10.8	16.1	10.7	17.1	10.5
	30.0	13.0	10.0	13.4	10.3	14.2	10.2	14.6	10.8	14.9	10.7	15.8	10.6	16.7	10.4
	32.5	12.8	9.9	13.2	10.2	13.9	10.1	14.3	10.7	14.7	10.6	15.4	10.4	16.4	10.3
	35.0	12.5	9.8	12.9	10.1	13.7	10.0	14.0	10.6	14.4	10.5	15.1	10.3	16.0	10.2
	37.5	12.3	9.7	12.7	10.0	13.4	9.9	13.8	10.5	14.1	10.4	14.8	10.2	15.7	10.0
	40.0	12.1	9.6	12.4	9.9	13.1	9.7	13.5	10.4	13.8	10.3	14.5	10.1	15.4	9.9
	43.0	11.8	9.4	12.1	9.7	12.8	9.6	13.2	10.2	13.5	10.2	14.1	9.9	15.0	9.8
	46.0	9.1	8.2	9.5	8.5	10.2	8.5	10.5	9.2	10.9	9.1	11.5	9.0	12.3	8.9

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMA-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp. 21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.5	2.0	2.6	2.0	2.8	2.0
	22.5	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.5	2.0	2.6	2.0	2.8	2.0
	25.0	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.4	2.0	2.6	2.0	2.7	2.0
	27.5	2.1	1.9	2.1	1.9	2.3	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.7	2.0
	30.0	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	32.5	2.0	1.8	2.1	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.4	2.0	2.6	1.9
	35.0	2.0	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.3	2.0	2.4	1.9	2.5	1.9
	37.5	1.9	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.2	2.0	2.3	1.9	2.5	1.9
	40.0	1.9	1.8	2.0	1.8	2.1	1.8	2.1	2.0	2.2	1.9	2.3	1.9	2.4	1.9
	43.0	1.8	1.7	1.9	1.8	2.0	1.8	2.1	1.9	2.1	1.9	2.2	1.9	2.3	1.9
	46.0	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.9	1.7
25 (2.8)	20.0	2.7	2.2	2.8	2.3	2.9	2.2	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.3
	22.5	2.7	2.2	2.8	2.3	2.9	2.2	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.3
	25.0	2.7	2.2	2.8	2.3	2.9	2.2	3.0	2.4	3.1	2.4	3.3	2.3	3.5	2.3
	27.5	2.7	2.2	2.7	2.3	2.9	2.2	3.0	2.4	3.0	2.4	3.2	2.3	3.4	2.3
	30.0	2.6	2.2	2.7	2.2	2.8	2.2	2.9	2.4	3.0	2.3	3.2	2.3	3.3	2.3
	32.5	2.6	2.1	2.6	2.2	2.8	2.2	2.9	2.3	2.9	2.3	3.1	2.3	3.3	2.2
	35.0	2.5	2.1	2.6	2.2	2.7	2.2	2.8	2.3	2.9	2.3	3.0	2.3	3.2	2.2
	37.5	2.5	2.1	2.5	2.2	2.7	2.1	2.8	2.3	2.8	2.3	3.0	2.2	3.1	2.2
	40.0	2.4	2.1	2.5	2.1	2.6	2.1	2.7	2.3	2.8	2.3	2.9	2.2	3.1	2.2
	43.0	2.4	2.0	2.4	2.1	2.6	2.1	2.6	2.2	2.7	2.2	2.8	2.2	3.0	2.2
	46.0	1.8	1.8	1.9	1.9	2.0	1.9	2.1	2.0	2.2	2.0	2.3	2.0	2.5	2.0
32 (3.6)	20.0	3.4	3.0	3.5	3.1	3.8	3.1	3.9	3.4	4.0	3.3	4.3	3.3	4.6	3.3
	22.5	3.4	3.0	3.5	3.1	3.8	3.1	3.9	3.4	4.0	3.3	4.3	3.3	4.6	3.3
	25.0	3.4	3.0	3.5	3.1	3.8	3.1	3.9	3.4	4.0	3.3	4.2	3.3	4.5	3.2
	27.5	3.4	3.0	3.5	3.1	3.7	3.1	3.8	3.3	3.9	3.3	4.1	3.3	4.4	3.2
	30.0	3.3	3.0	3.4	3.1	3.6	3.1	3.7	3.3	3.8	3.3	4.1	3.2	4.3	3.2
	32.5	3.3	3.0	3.4	3.1	3.6	3.0	3.7	3.3	3.8	3.2	4.0	3.2	4.2	3.2
	35.0	3.2	2.9	3.3	3.1	3.5	3.0	3.6	3.2	3.7	3.2	3.9	3.2	4.1	3.1
	37.5	3.2	2.9	3.3	3.0	3.4	3.0	3.5	3.2	3.6	3.2	3.8	3.1	4.0	3.1
	40.0	3.1	2.9	3.2	3.0	3.4	3.0	3.5	3.2	3.6	3.2	3.7	3.1	3.9	3.1
	43.0	3.0	2.9	3.1	3.0	3.3	2.9	3.4	3.2	3.5	3.1	3.6	3.1	3.8	3.0
	46.0	2.3	2.3	2.4	2.4	2.6	2.6	2.7	2.7	2.8	2.8	2.9	2.9	3.2	2.8
40 (4.5)	20.0	4.3	3.7	4.4	3.9	4.7	3.8	4.9	4.1	5.0	4.1	5.3	4.1	5.7	4.0
	22.5	4.3	3.7	4.4	3.9	4.7	3.8	4.9	4.1	5.0	4.1	5.3	4.1	5.7	4.0
	25.0	4.3	3.7	4.4	3.9	4.7	3.8	4.9	4.1	5.0	4.1	5.3	4.0	5.6	4.0
	27.5	4.3	3.7	4.4	3.9	4.6	3.8	4.8	4.1	4.9	4.1	5.2	4.0	5.5	4.0
	30.0	4.2	3.7	4.3	3.8	4.6	3.8	4.7	4.1	4.8	4.0	5.1	4.0	5.4	3.9
	32.5	4.1	3.7	4.2	3.8	4.5	3.7	4.6	4.0	4.7	4.0	5.0	3.9	5.3	3.9
	35.0	4.0	3.6	4.1	3.8	4.4	3.7	4.5	4.0	4.6	4.0	4.9	3.9	5.2	3.8
	37.5	4.0	3.6	4.1	3.7	4.3	3.7	4.4	4.0	4.5	3.9	4.8	3.9	5.0	3.8
	40.0	3.9	3.6	4.0	3.7	4.2	3.6	4.3	3.9	4.4	3.9	4.7	3.8	4.9	3.8
	43.0	3.8	3.5	3.9	3.6	4.1	3.6	4.2	3.9	4.3	3.9	4.5	3.8	4.8	3.7
	46.0	2.9	2.9	3.0	3.0	3.3	3.3	3.4	3.4	3.5	3.5	3.7	3.5	4.0	3.5
50 (5.6)	20.0	5.3	4.6	5.5	4.7	5.9	4.7	6.1	5.0	6.2	5.0	6.6	5.0	7.1	4.9
	22.5	5.3	4.6	5.5	4.7	5.9	4.7	6.1	5.0	6.2	5.0	6.6	5.0	7.1	4.9
	25.0	5.3	4.6	5.5	4.7	5.9	4.7	6.0	5.0	6.2	5.0	6.6	4.9	7.0	4.9
	27.5	5.3	4.6	5.5	4.7	5.8	4.7	5.9	5.0	6.1	5.0	6.4	4.9	6.8	4.8
	30.0	5.2	4.5	5.4	4.7	5.7	4.6	5.8	4.9	6.0	4.9	6.3	4.8	6.7	4.8
	32.5	5.1	4.5	5.3	4.6	5.6	4.6	5.7	4.9	5.9	4.9	6.2	4.8	6.6	4.7
	35.0	5.0	4.4	5.2	4.6	5.5	4.5	5.6	4.9	5.8	4.8	6.1	4.7	6.4	4.7
	37.5	4.9	4.4	5.1	4.5	5.4	4.5	5.5	4.8	5.6	4.8	5.9	4.7	6.3	4.6
	40.0	4.8	4.3	5.0	4.5	5.3	4.4	5.4	4.8	5.5	4.7	5.8	4.7	6.1	4.6
	43.0	4.7	4.3	4.8	4.4	5.1	4.4	5.3	4.7	5.4	4.7	5.6	4.6	6.0	4.5
	46.0	3.6	3.6	3.8	3.8	4.1	4.0	4.2	4.2	4.3	4.3	4.6	4.2	4.9	4.2
63 (7.1)	20.0	6.7	5.2	7.0	5.4	7.5	5.4	7.7	5.7	7.9	5.7	8.4	5.6	9.0	5.5
	22.5	6.7	5.2	7.0	5.4	7.5	5.4	7.7	5.7	7.9	5.7	8.4	5.6	9.0	5.5
	25.0	6.7	5.2	7.0	5.4	7.5	5.4	7.7	5.7	7.9	5.7	8.3	5.6	8.8	5.5
	27.5	6.7	5.2	6.9	5.4	7.3	5.3	7.5	5.6	7.7	5.6	8.1	5.5	8.7	5.4
	30.0	6.6	5.2	6.8	5.3	7.2	5.3	7.4	5.6	7.6	5.5	8.0	5.4	8.5	5.4
	32.5	6.5	5.1	6.7	5.3	7.1	5.2	7.2	5.5	7.4	5.5	7.8	5.4	8.3	5.3
	35.0	6.4	5.0	6.5	5.2	6.9	5.1	7.1	5.5	7.3	5.4	7.7	5.3	8.1	5.3
	37.5	6.2	5.0	6.4	5.1	6.8	5.1	7.0	5.4	7.2	5.4	7.5	5.3	8.0	5.2
	40.0	6.1	4.9	6.3	5.1	6.7	5.0	6.8	5.4	7.0	5.3	7.4	5.2	7.8	5.1
	43.0	6.0	4.9	6.1	5.0	6.5	5.0	6.7	5.3	6.9	5.2	7.2	5.1	7.6	5.1
	46.0	4.6	4.2	4.8	4.4	5.2	4.4	5.3	4.8	5.5	4.7	5.8	4.7	6.2	4.6
71 (8.0)	20.0	7.6	5.7	7.9	5.9	8.4	5.8	8.7	6.2	8.9	6.1	9.5	6.1	10.1	6.0
	22.5	7.6	5.7	7.9	5.9	8.4	5.8	8.7	6.2	8.9	6.1	9.5	6.1	10.1	6.0
	25.0	7.6	5.7	7.9	5.9	8.4	5.8	8.6	6.2	8.9	6.1	9.4	6.0	10.0	5.9
	27.5	7.6	5.7	7.8	5.8	8.3	5.8	8.5	6.1	8.7	6.0	9.2	5.9	9.8	5.9
	30.0	7.4	5.6	7.7	5.8	8.1	5.7	8.3	6.0	8.5	6.0	9.0	5.9	9.6	5.8
	32.5	7.3	5.5	7.5	5.7	8.0	5.6	8.2	6.0	8.4	5.9	8.8	5.8	9.4	5.7
	35.0	7.2	5.5	7.4	5.6	7.8	5.6	8.0	5.9	8.2	5.8	8.6	5.7	9.2	5.7
	37.5	7.0	5.4	7.2	5.6	7.7	5.5	7.9	5.8	8.1	5.8	8.5	5.7	9.0	5.6
	40.0	6.9	5.3	7.1	5.5	7.5	5.4	7.7	5.8	7.9	5.7	8.3	5.6	8.8	5.5
	43.0	6.7	5.3	6.9	5.4	7.3	5.4	7.5	5.7	7.7	5.6	8.1	5.5	8.5	5.4
	46.0	5.2	4.5	5.4	4.7	5.8	4.7	6.0	5.1	6.2	5.0	6.6	5.0	7.0	4.9

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMA-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.6	6.1	8.9	6.3	9.5	6.3	9.7	6.6	10.0	6.6	10.6	6.5	11.4	6.4
	22.5	8.6	6.1	8.9	6.3	9.5	6.3	9.7	6.6	10.0	6.6	10.6	6.5	11.4	6.4
	25.0	8.6	6.1	8.9	6.3	9.5	6.3	9.7	6.6	10.0	6.6	10.5	6.5	11.2	6.4
	27.5	8.5	6.1	8.8	6.3	9.3	6.2	9.5	6.5	9.8	6.5	10.3	6.4	11.0	6.3
	30.0	8.4	6.0	8.6	6.2	9.1	6.1	9.4	6.5	9.6	6.4	10.1	6.3	10.8	6.2
	32.5	8.2	6.0	8.5	6.1	8.9	6.1	9.2	6.4	9.4	6.3	9.9	6.2	10.5	6.1
	35.0	8.1	5.9	8.3	6.0	8.8	6.0	9.0	6.3	9.2	6.2	9.7	6.1	10.3	6.0
	37.5	7.9	5.8	8.1	6.0	8.6	5.9	8.8	6.2	9.1	6.2	9.5	6.0	10.1	6.0
	40.0	7.7	5.7	8.0	5.9	8.4	5.8	8.7	6.1	8.9	6.1	9.3	6.0	9.9	5.9
	43.0	7.6	5.6	7.8	5.8	8.2	5.7	8.5	6.1	8.7	6.0	9.1	5.9	9.6	5.8
	46.0	5.9	4.8	6.1	5.0	6.5	5.0	6.8	5.3	7.0	5.3	7.4	5.2	7.9	5.2
100 (11.2)	20.0	10.6	8.4	11.0	8.7	11.8	8.6	12.1	9.2	12.5	9.2	13.2	9.0	14.2	8.9
	22.5	10.6	8.4	11.0	8.7	11.8	8.6	12.1	9.2	12.5	9.2	13.2	9.0	14.2	8.9
	25.0	10.6	8.4	11.0	8.7	11.8	8.6	12.1	9.2	12.4	9.1	13.1	9.0	13.9	8.9
	27.5	10.6	8.4	10.9	8.7	11.6	8.6	11.9	9.1	12.2	9.0	12.9	8.9	13.7	8.8
	30.0	10.4	8.3	10.7	8.6	11.3	8.5	11.6	9.0	12.0	8.9	12.6	8.8	13.4	8.7
	32.5	10.2	8.2	10.5	8.5	11.1	8.4	11.4	8.9	11.7	8.9	12.4	8.7	13.1	8.6
	35.0	10.0	8.1	10.3	8.4	10.9	8.3	11.2	8.8	11.5	8.8	12.1	8.6	12.8	8.5
	37.5	9.8	8.0	10.1	8.3	10.7	8.2	11.0	8.7	11.3	8.7	11.9	8.5	12.6	8.4
	40.0	9.6	7.9	9.9	8.2	10.5	8.1	10.8	8.7	11.1	8.6	11.6	8.4	12.3	8.3
	43.0	9.4	7.8	9.7	8.1	10.2	8.0	10.5	8.6	10.8	8.5	11.3	8.3	12.0	8.2
	46.0	7.3	6.9	7.6	7.2	8.1	7.1	8.4	7.7	8.7	7.7	9.2	7.6	9.8	7.5
125 (14.0)	20.0	13.3	10.2	13.8	10.6	14.7	10.5	15.2	11.2	15.6	11.1	16.6	11.0	17.7	10.9
	22.5	13.3	10.2	13.8	10.6	14.7	10.5	15.2	11.2	15.6	11.1	16.6	11.0	17.7	10.9
	25.0	13.3	10.2	13.8	10.6	14.7	10.5	15.1	11.2	15.5	11.1	16.4	10.9	17.4	10.8
	27.5	13.3	10.2	13.6	10.5	14.4	10.4	14.8	11.0	15.2	11.0	16.1	10.8	17.1	10.6
	30.0	13.0	10.1	13.4	10.4	14.2	10.3	14.6	10.9	14.9	10.8	15.8	10.7	16.7	10.5
	32.5	12.8	10.0	13.2	10.3	13.9	10.2	14.3	10.8	14.7	10.7	15.4	10.5	16.4	10.4
	35.0	12.5	9.9	12.9	10.2	13.7	10.1	14.0	10.7	14.4	10.6	15.1	10.4	16.0	10.3
	37.5	12.3	9.8	12.7	10.1	13.4	10.0	13.8	10.6	14.1	10.5	14.8	10.3	15.7	10.2
	40.0	12.1	9.7	12.4	10.0	13.1	9.8	13.5	10.5	13.8	10.4	14.5	10.2	15.4	10.0
	43.0	11.8	9.5	12.1	9.8	12.8	9.7	13.2	10.3	13.5	10.3	14.1	10.1	15.0	9.9
	46.0	9.1	8.3	9.5	8.7	10.2	8.6	10.5	9.3	10.9	9.3	11.5	9.1	12.3	9.0
140 (16.0)	20.0	15.2	11.6	15.8	11.9	16.8	11.9	17.3	12.6	17.8	12.5	18.9	12.3	20.2	12.2
	22.5	15.2	11.6	15.8	11.9	16.8	11.9	17.3	12.6	17.8	12.5	18.9	12.3	20.2	12.2
	25.0	15.2	11.6	15.8	11.9	16.8	11.9	17.3	12.6	17.7	12.4	18.7	12.3	19.9	12.1
	27.5	15.2	11.5	15.6	11.9	16.5	11.7	16.9	12.4	17.4	12.3	18.4	12.1	19.5	12.0
	30.0	14.9	11.4	15.3	11.7	16.2	11.6	16.6	12.3	17.1	12.2	18.0	12.0	19.1	11.8
	32.5	14.6	11.3	15.0	11.6	15.9	11.5	16.3	12.2	16.8	12.1	17.6	11.9	18.7	11.7
	35.0	14.3	11.1	14.8	11.5	15.6	11.3	16.0	12.0	16.4	11.9	17.3	11.7	18.3	11.6
	37.5	14.1	11.0	14.5	11.3	15.3	11.2	15.7	11.9	16.1	11.8	16.9	11.6	17.9	11.4
	40.0	13.8	10.9	14.2	11.2	15.0	11.1	15.4	11.8	15.8	11.7	16.6	11.5	17.6	11.3
	43.0	13.4	10.7	13.8	11.0	14.6	10.9	15.0	11.6	15.4	11.5	16.1	11.3	17.1	11.1
	46.0	10.4	9.3	10.8	9.7	11.6	9.7	12.0	10.4	12.4	10.4	13.1	10.2	14.1	10.1

kcal/h=kW x 860 , BTU/h = kW x 3,412

2-4. Cooling capacity with PUHY-P350-400YRJC-A

PEFY-P-VMM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.8	2.4	1.8	2.5	2.0	2.5	2.0	2.7	1.9	2.9	1.9
	22.5	2.1	1.8	2.2	1.8	2.3	1.8	2.4	2.0	2.5	1.9	2.6	1.9	2.8	1.9
	25.0	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.9	2.8	1.9
	27.5	2.1	1.7	2.1	1.8	2.3	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.6	1.8
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.8	2.6	1.8
	35.0	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.9	2.3	1.9	2.4	1.8	2.5	1.8
	37.5	1.9	1.7	2.0	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.5	1.8
	40.0	1.9	1.7	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8
	43.0	1.9	1.7	1.9	1.7	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.8	2.4	1.8
	46.0	1.4	1.4	1.4	1.4	1.6	1.5	1.6	1.6	1.7	1.6	1.8	1.6	2.0	1.6
25 (2.8)	20.0	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.3	3.2	2.2	3.4	2.2	3.6	2.2
	22.5	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.6	2.2
	25.0	2.7	2.0	2.7	2.1	2.9	2.1	3.0	2.2	3.1	2.2	3.3	2.2	3.5	2.1
	27.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.2	3.1	2.2	3.2	2.1	3.4	2.1
	30.0	2.6	2.0	2.6	2.0	2.8	2.0	2.9	2.2	3.0	2.1	3.2	2.1	3.4	2.1
	32.5	2.5	2.0	2.6	2.0	2.8	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.1
	35.0	2.5	1.9	2.5	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.0	2.1	3.2	2.0
	37.5	2.5	1.9	2.5	2.0	2.6	2.0	2.7	2.1	2.8	2.1	3.0	2.0	3.2	2.0
	40.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.1	2.8	2.0	2.9	2.0	3.1	2.0
	43.0	2.4	1.9	2.4	1.9	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.0	3.0	2.0
	46.0	1.8	1.6	1.8	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.5	1.8
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.8	4.2	2.8	4.4	2.8	4.7	2.7
	22.5	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.8	4.1	2.8	4.3	2.8	4.6	2.7
	25.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.2	2.7	4.5	2.7
	27.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.7
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.6
	32.5	3.3	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.7	2.6	3.9	2.6	4.2	2.6
	37.5	3.2	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.6	4.1	2.5
	40.0	3.1	2.4	3.1	2.4	3.3	2.4	3.4	2.6	3.5	2.6	3.8	2.5	4.0	2.5
	43.0	3.0	2.4	3.0	2.4	3.2	2.4	3.3	2.5	3.4	2.5	3.7	2.5	3.9	2.5
	46.0	2.4	2.1	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.2
40 (4.5)	20.0	4.4	3.3	4.5	3.4	4.9	3.4	5.0	3.7	5.2	3.6	5.5	3.6	5.8	3.5
	22.5	4.4	3.3	4.5	3.4	4.8	3.4	4.9	3.6	5.1	3.6	5.4	3.6	5.7	3.5
	25.0	4.3	3.3	4.4	3.4	4.7	3.4	4.9	3.6	5.0	3.6	5.3	3.5	5.6	3.5
	27.5	4.2	3.3	4.3	3.4	4.6	3.3	4.8	3.5	4.9	3.5	5.2	3.5	5.5	3.4
	30.0	4.1	3.2	4.2	3.3	4.5	3.3	4.7	3.5	4.8	3.5	5.1	3.4	5.4	3.4
	32.5	4.1	3.2	4.2	3.3	4.4	3.2	4.6	3.5	4.7	3.4	5.0	3.4	5.3	3.3
	35.0	4.0	3.2	4.1	3.2	4.3	3.2	4.5	3.4	4.6	3.4	4.9	3.4	5.2	3.3
	37.5	3.9	3.1	4.0	3.2	4.2	3.2	4.4	3.4	4.5	3.4	4.8	3.3	5.1	3.3
	40.0	3.9	3.1	3.9	3.2	4.2	3.1	4.3	3.3	4.4	3.3	4.7	3.3	5.0	3.2
	43.0	3.8	3.1	3.8	3.1	4.0	3.1	4.2	3.3	4.3	3.3	4.6	3.2	4.8	3.2
	46.0	2.9	2.7	3.0	2.7	3.2	2.7	3.3	3.0	3.5	3.0	3.7	2.9	4.0	2.9
50 (5.6)	20.0	5.4	4.1	5.6	4.2	6.1	4.2	6.3	4.4	6.5	4.4	6.9	4.4	7.3	4.3
	22.5	5.4	4.1	5.6	4.2	6.0	4.1	6.2	4.4	6.3	4.4	6.7	4.3	7.1	4.2
	25.0	5.3	4.0	5.5	4.1	5.8	4.1	6.0	4.3	6.2	4.3	6.6	4.3	7.0	4.2
	27.5	5.3	4.0	5.4	4.1	5.7	4.0	5.9	4.3	6.1	4.3	6.5	4.2	6.9	4.1
	30.0	5.2	3.9	5.3	4.0	5.6	4.0	5.8	4.2	6.0	4.2	6.4	4.2	6.7	4.1
	32.5	5.1	3.9	5.2	4.0	5.5	3.9	5.7	4.2	5.9	4.2	6.2	4.1	6.6	4.1
	35.0	5.0	3.8	5.1	3.9	5.4	3.9	5.6	4.2	5.7	4.1	6.1	4.1	6.5	4.0
	37.5	4.9	3.8	5.0	3.9	5.3	3.8	5.5	4.1	5.6	4.1	6.0	4.0	6.3	4.0
	40.0	4.8	3.8	4.9	3.8	5.2	3.8	5.3	4.0	5.5	4.0	5.8	4.0	6.2	3.9
	43.0	4.7	3.7	4.7	3.8	5.0	3.7	5.2	4.0	5.4	4.0	5.7	3.9	6.0	3.9
	46.0	3.7	3.2	3.7	3.3	4.0	3.3	4.1	3.6	4.3	3.5	4.6	3.5	5.0	3.5
63 (7.1)	20.0	6.9	5.1	7.1	5.2	7.7	5.2	7.9	5.6	8.2	5.5	8.7	5.5	9.2	5.4
	22.5	6.9	5.1	7.1	5.2	7.6	5.2	7.8	5.5	8.0	5.5	8.5	5.4	9.1	5.3
	25.0	6.8	5.0	7.0	5.2	7.4	5.1	7.7	5.4	7.9	5.4	8.4	5.3	8.9	5.2
	27.5	6.7	5.0	6.8	5.1	7.3	5.1	7.5	5.4	7.7	5.3	8.2	5.3	8.7	5.2
	30.0	6.5	4.9	6.7	5.0	7.1	5.0	7.4	5.3	7.6	5.3	8.1	5.2	8.5	5.1
	32.5	6.4	4.9	6.6	5.0	7.0	4.9	7.2	5.2	7.4	5.2	7.9	5.1	8.4	5.1
	35.0	6.3	4.8	6.4	4.9	6.8	4.9	7.1	5.2	7.3	5.1	7.7	5.1	8.2	5.0
	37.5	6.2	4.8	6.3	4.8	6.7	4.8	6.9	5.1	7.1	5.1	7.6	5.0	8.0	4.9
	40.0	6.1	4.7	6.2	4.8	6.6	4.7	6.8	5.0	7.0	5.0	7.4	5.0	7.8	4.9
	43.0	6.0	4.6	6.0	4.7	6.4	4.7	6.6	5.0	6.8	4.9	7.2	4.9	7.6	4.8
	46.0	4.6	4.0	4.7	4.1	5.0	4.1	5.2	4.4	5.5	4.4	5.9	4.4	6.3	4.4
71 (8.0)	20.0	7.8	5.7	8.0	5.9	8.6	5.9	8.9	6.2	9.2	6.2	9.8	6.1	10.4	6.0
	22.5	7.7	5.7	8.0	5.8	8.5	5.8	8.8	6.1	9.1	6.1	9.6	6.0	10.2	5.9
	25.0	7.6	5.6	7.8	5.8	8.4	5.7	8.6	6.1	8.9	6.0	9.4	6.0	10.0	5.9
	27.5	7.5	5.6	7.7	5.7	8.2	5.7	8.5	6.0	8.7	6.0	9.3	5.9	9.8	5.8
	30.0	7.4	5.5	7.5	5.6	8.0	5.6	8.3	5.9	8.6	5.9	9.1	5.8	9.6	5.7
	32.5	7.3	5.4	7.4	5.6	7.9	5.5	8.1	5.9	8.4	5.8	8.9	5.7	9.4	5.7
	35.0	7.1	5.4	7.2	5.5	7.7	5.4	8.0	5.8	8.2	5.8	8.7	5.7	9.2	5.6
	37.5	7.0	5.3	7.1	5.4	7.5	5.4	7.8	5.7	8.0	5.7	8.5	5.6	9.0	5.5
	40.0	6.9	5.3	6.9	5.3	7.4	5.3	7.6	5.6	7.9	5.6	8.3	5.5	8.8	5.5
	43.0	6.7	5.2	6.8	5.3	7.2	5.2	7.4	5.6	7.7	5.5	8.1	5.5	8.6	5.4
	46.0	5.2	4.5	5.2	4.6	5.7	4.6	5.9	4.9	6.1	4.9	6.6	4.9	7.1	4.9

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.7	6.2	9.0	6.4	9.7	6.4	10.1	6.7	10.4	6.7	11.0	6.6	11.7	6.5
	22.5	8.7	6.2	9.0	6.3	9.6	6.3	9.9	6.6	10.2	6.6	10.8	6.5	11.5	6.4
	25.0	8.6	6.1	8.8	6.3	9.4	6.2	9.7	6.6	10.0	6.5	10.6	6.4	11.3	6.3
	27.5	8.4	6.0	8.6	6.2	9.2	6.1	9.5	6.5	9.8	6.4	10.4	6.4	11.0	6.3
	30.0	8.3	6.0	8.5	6.1	9.0	6.0	9.3	6.4	9.6	6.4	10.2	6.3	10.8	6.2
	32.5	8.2	5.9	8.3	6.0	8.9	6.0	9.1	6.3	9.4	6.3	10.0	6.2	10.6	6.1
	35.0	8.0	5.8	8.1	5.9	8.7	5.9	9.0	6.2	9.2	6.2	9.8	6.1	10.4	6.0
	37.5	7.9	5.8	8.0	5.8	8.5	5.8	8.8	6.1	9.0	6.1	9.6	6.0	10.2	5.9
	40.0	7.7	5.7	7.8	5.8	8.3	5.7	8.6	6.0	8.8	6.0	9.4	5.9	9.9	5.8
	43.0	7.6	5.6	7.6	5.7	8.1	5.6	8.4	6.0	8.6	5.9	9.1	5.8	9.7	5.8
	46.0	5.9	4.8	5.9	4.9	6.4	4.9	6.7	5.2	6.9	5.2	7.4	5.2	8.0	5.2
100 (11.2)	20.0	10.9	8.4	11.3	8.7	12.1	8.7	12.5	9.2	12.9	9.2	13.7	9.1	14.5	8.9
	22.5	10.8	8.4	11.2	8.7	11.9	8.6	12.3	9.1	12.7	9.1	13.5	9.0	14.3	8.8
	25.0	10.7	8.3	11.0	8.6	11.7	8.5	12.1	9.0	12.5	9.0	13.2	8.9	14.0	8.7
	27.5	10.5	8.2	10.8	8.5	11.5	8.4	11.8	8.9	12.2	8.9	13.0	8.8	13.7	8.7
	30.0	10.3	8.1	10.6	8.4	11.2	8.3	11.6	8.8	12.0	8.8	12.7	8.7	13.5	8.6
	32.5	10.2	8.1	10.3	8.3	11.0	8.2	11.4	8.7	11.7	8.7	12.4	8.6	13.2	8.5
	35.0	10.0	8.0	10.1	8.2	10.8	8.1	11.2	8.7	11.5	8.6	12.2	8.5	12.9	8.4
	37.5	9.8	7.9	9.9	8.1	10.6	8.0	10.9	8.6	11.2	8.5	11.9	8.4	12.6	8.3
	40.0	9.6	7.8	9.7	8.0	10.3	7.9	10.7	8.5	11.0	8.4	11.7	8.3	12.4	8.2
	43.0	9.4	7.7	9.5	7.9	10.1	7.8	10.4	8.3	10.7	8.3	11.4	8.2	12.1	8.1
	46.0	7.3	6.8	7.3	6.9	8.0	6.9	8.3	7.5	8.6	7.5	9.3	7.5	9.9	7.4
125 (14.0)	20.0	13.6	10.3	14.1	10.6	15.1	10.6	15.7	11.3	16.2	11.2	17.2	11.1	18.2	10.9
	22.5	13.6	10.3	14.0	10.6	14.9	10.5	15.4	11.2	15.9	11.1	16.8	11.0	17.8	10.8
	25.0	13.3	10.2	13.7	10.5	14.6	10.4	15.1	11.0	15.6	11.0	16.5	10.8	17.5	10.7
	27.5	13.1	10.1	13.5	10.3	14.3	10.3	14.8	10.9	15.3	10.9	16.2	10.7	17.2	10.6
	30.0	12.9	10.0	13.2	10.2	14.1	10.1	14.5	10.8	15.0	10.7	15.9	10.6	16.8	10.4
	32.5	12.7	9.9	12.9	10.1	13.8	10.0	14.2	10.7	14.7	10.6	15.6	10.5	16.5	10.3
	35.0	12.5	9.8	12.7	10.0	13.5	9.9	14.0	10.6	14.4	10.5	15.2	10.4	16.2	10.2
	37.5	12.3	9.7	12.4	9.9	13.2	9.8	13.6	10.4	14.1	10.4	14.9	10.2	15.8	10.1
	40.0	12.0	9.6	12.2	9.7	12.9	9.7	13.3	10.3	13.8	10.3	14.6	10.1	15.5	10.0
	43.0	11.8	9.4	11.8	9.6	12.6	9.5	13.0	10.2	13.4	10.1	14.2	10.0	15.1	9.8
	46.0	9.1	8.2	9.2	8.4	9.9	8.4	10.3	9.1	10.8	9.1	11.6	9.0	12.4	9.0

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMA-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp. 21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.2	1.9	2.4	1.9	2.5	2.1	2.5	2.1	2.7	2.1	2.9	2.0
	22.5	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.5	2.1	2.6	2.0	2.8	2.0
	25.0	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.4	2.0	2.6	2.0	2.8	2.0
	27.5	2.1	1.8	2.1	1.9	2.3	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.7	2.0
	30.0	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.0
	32.5	2.0	1.8	2.0	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.4	2.0	2.6	1.9
	35.0	2.0	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.3	2.0	2.4	1.9	2.5	1.9
	37.5	1.9	1.8	2.0	1.8	2.1	1.8	2.1	2.0	2.2	2.0	2.3	1.9	2.5	1.9
	40.0	1.9	1.8	1.9	1.8	2.0	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.9
	43.0	1.9	1.7	1.9	1.8	2.0	1.8	2.0	1.9	2.1	1.9	2.2	1.9	2.4	1.9
	46.0	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.7	1.7	1.8	1.8	2.0	1.7
25 (2.8)	20.0	2.7	2.2	2.8	2.3	3.0	2.3	3.1	2.4	3.2	2.4	3.4	2.4	3.6	2.4
	22.5	2.7	2.2	2.8	2.3	3.0	2.3	3.1	2.4	3.2	2.4	3.4	2.4	3.6	2.3
	25.0	2.7	2.2	2.7	2.3	2.9	2.2	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.3
	27.5	2.6	2.2	2.7	2.2	2.9	2.2	3.0	2.4	3.1	2.4	3.2	2.3	3.4	2.3
	30.0	2.6	2.1	2.6	2.2	2.8	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.3
	32.5	2.5	2.1	2.6	2.2	2.8	2.2	2.8	2.3	2.9	2.3	3.1	2.3	3.3	2.3
	35.0	2.5	2.1	2.5	2.2	2.7	2.1	2.8	2.3	2.9	2.3	3.0	2.3	3.2	2.2
	37.5	2.5	2.1	2.5	2.1	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.2	3.2	2.2
	40.0	2.4	2.1	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.2	2.9	2.2	3.1	2.2
	43.0	2.4	2.0	2.4	2.1	2.5	2.1	2.6	2.2	2.7	2.2	2.8	2.2	3.0	2.2
	46.0	1.8	1.8	1.8	1.8	2.0	1.9	2.1	2.0	2.2	2.0	2.3	2.0	2.5	2.0
32 (3.6)	20.0	3.5	3.1	3.6	3.2	3.9	3.2	4.0	3.4	4.2	3.4	4.4	3.4	4.7	3.3
	22.5	3.5	3.1	3.6	3.2	3.8	3.1	4.0	3.4	4.1	3.4	4.3	3.3	4.6	3.3
	25.0	3.4	3.0	3.5	3.1	3.8	3.1	3.9	3.4	4.0	3.3	4.2	3.3	4.5	3.2
	27.5	3.4	3.0	3.5	3.1	3.7	3.1	3.8	3.3	3.9	3.3	4.2	3.3	4.4	3.2
	30.0	3.3	3.0	3.4	3.1	3.6	3.1	3.7	3.3	3.8	3.3	4.1	3.2	4.3	3.2
	32.5	3.3	3.0	3.3	3.1	3.5	3.0	3.7	3.3	3.8	3.2	4.0	3.2	4.2	3.2
	35.0	3.2	2.9	3.3	3.0	3.5	3.0	3.6	3.2	3.7	3.2	3.9	3.2	4.2	3.1
	37.5	3.2	2.9	3.2	3.0	3.4	3.0	3.5	3.2	3.6	3.2	3.8	3.2	4.1	3.1
	40.0	3.1	2.9	3.1	3.0	3.3	2.9	3.4	3.2	3.5	3.2	3.8	3.1	4.0	3.1
	43.0	3.0	2.9	3.0	2.9	3.2	2.9	3.3	3.1	3.4	3.1	3.7	3.1	3.9	3.0
	46.0	2.4	2.4	2.4	2.4	2.6	2.6	2.7	2.7	2.8	2.8	3.0	2.9	3.2	2.8
40 (4.5)	20.0	4.4	3.8	4.5	3.9	4.9	3.9	5.0	4.2	5.2	4.2	5.5	4.1	5.8	4.1
	22.5	4.4	3.8	4.5	3.9	4.8	3.9	4.9	4.2	5.1	4.1	5.4	4.1	5.7	4.0
	25.0	4.3	3.7	4.4	3.9	4.7	3.8	4.9	4.1	5.0	4.1	5.3	4.1	5.6	4.0
	27.5	4.2	3.7	4.3	3.8	4.6	3.8	4.8	4.1	4.9	4.1	5.2	4.0	5.5	4.0
	30.0	4.1	3.7	4.2	3.8	4.5	3.8	4.7	4.1	4.8	4.0	5.1	4.0	5.4	3.9
	32.5	4.1	3.6	4.2	3.8	4.4	3.7	4.6	4.0	4.7	4.0	5.0	3.9	5.3	3.9
	35.0	4.0	3.6	4.1	3.7	4.3	3.7	4.5	4.0	4.6	4.0	4.9	3.9	5.2	3.9
	37.5	3.9	3.6	4.0	3.7	4.2	3.7	4.4	3.9	4.5	3.9	4.8	3.9	5.1	3.8
	40.0	3.9	3.5	3.9	3.7	4.2	3.6	4.3	3.9	4.4	3.9	4.7	3.8	5.0	3.8
	43.0	3.8	3.5	3.8	3.6	4.0	3.6	4.2	3.9	4.3	3.8	4.6	3.8	4.8	3.7
	46.0	2.9	2.9	3.0	3.0	3.2	3.2	3.3	3.3	3.5	3.5	3.7	3.5	4.0	3.5
50 (5.6)	20.0	5.4	4.6	5.6	4.8	6.1	4.8	6.3	5.1	6.5	5.1	6.9	5.0	7.3	5.0
	22.5	5.4	4.6	5.6	4.8	6.0	4.7	6.2	5.1	6.3	5.1	6.7	5.0	7.1	4.9
	25.0	5.3	4.6	5.5	4.7	5.8	4.7	6.0	5.0	6.2	5.0	6.6	4.9	7.0	4.9
	27.5	5.3	4.5	5.4	4.7	5.7	4.6	5.9	5.0	6.1	5.0	6.5	4.9	6.9	4.8
	30.0	5.2	4.5	5.3	4.6	5.6	4.6	5.8	4.9	6.0	4.9	6.4	4.9	6.7	4.8
	32.5	5.1	4.4	5.2	4.6	5.5	4.5	5.7	4.9	5.9	4.9	6.2	4.8	6.6	4.7
	35.0	5.0	4.4	5.1	4.5	5.4	4.5	5.6	4.9	5.7	4.8	6.1	4.8	6.5	4.7
	37.5	4.9	4.4	5.0	4.5	5.3	4.5	5.5	4.8	5.6	4.8	6.0	4.7	6.3	4.7
	40.0	4.8	4.3	4.9	4.5	5.2	4.4	5.3	4.8	5.5	4.7	5.8	4.7	6.2	4.6
	43.0	4.7	4.3	4.7	4.4	5.0	4.4	5.2	4.7	5.4	4.7	5.7	4.6	6.0	4.6
	46.0	3.7	3.7	3.7	3.7	4.0	3.9	4.1	4.1	4.3	4.3	4.6	4.3	5.0	4.2
63 (7.1)	20.0	6.9	5.3	7.1	5.5	7.7	5.5	7.9	5.8	8.2	5.8	8.7	5.7	9.2	5.6
	22.5	6.9	5.3	7.1	5.5	7.6	5.4	7.8	5.8	8.0	5.7	8.5	5.7	9.1	5.6
	25.0	6.8	5.2	7.0	5.4	7.4	5.4	7.7	5.7	7.9	5.7	8.4	5.6	8.9	5.5
	27.5	6.7	5.2	6.8	5.3	7.3	5.3	7.5	5.6	7.7	5.6	8.2	5.5	8.7	5.4
	30.0	6.5	5.1	6.7	5.3	7.1	5.2	7.4	5.6	7.6	5.5	8.1	5.5	8.5	5.4
	32.5	6.4	5.1	6.6	5.2	7.0	5.2	7.2	5.5	7.4	5.5	7.9	5.4	8.4	5.3
	35.0	6.3	5.0	6.4	5.1	6.8	5.1	7.1	5.5	7.3	5.4	7.7	5.4	8.2	5.3
	37.5	6.2	5.0	6.3	5.1	6.7	5.0	6.9	5.4	7.1	5.4	7.6	5.3	8.0	5.2
	40.0	6.1	4.9	6.2	5.0	6.6	5.0	6.8	5.3	7.0	5.3	7.4	5.2	7.8	5.2
	43.0	6.0	4.9	6.0	5.0	6.4	4.9	6.6	5.3	6.8	5.2	7.2	5.2	7.6	5.1
	46.0	4.6	4.3	4.7	4.4	5.0	4.4	5.2	4.7	5.5	4.7	5.9	4.7	6.3	4.6
71 (8.0)	20.0	7.8	5.8	8.0	5.9	8.6	5.9	8.9	6.3	9.2	6.3	9.8	6.2	10.4	6.1
	22.5	7.7	5.8	8.0	5.9	8.5	5.9	8.8	6.2	9.1	6.2	9.6	6.1	10.2	6.0
	25.0	7.6	5.7	7.8	5.8	8.4	5.8	8.6	6.2	8.9	6.1	9.4	6.0	10.0	6.0
	27.5	7.5	5.6	7.7	5.8	8.2	5.7	8.5	6.1	8.7	6.1	9.3	6.0	9.8	5.9
	30.0	7.4	5.6	7.5	5.7	8.0	5.7	8.3	6.0	8.6	6.0	9.1	5.9	9.6	5.8
	32.5	7.3	5.5	7.4	5.6	7.9	5.6	8.1	5.9	8.4	5.9	8.9	5.8	9.4	5.7
	35.0	7.1	5.5	7.2	5.6	7.7	5.5	8.0	5.9	8.2	5.8	8.7	5.8	9.2	5.7
	37.5	7.0	5.4	7.1	5.5	7.5	5.5	7.8	5.8	8.0	5.8	8.5	5.7	9.0	5.6
	40.0	6.9	5.3	6.9	5.4	7.4	5.4	7.6	5.7	7.9	5.7	8.3	5.6	8.8	5.5
	43.0	6.7	5.3	6.8	5.3	7.2	5.3	7.4	5.6	7.7	5.6	8.1	5.5	8.6	5.5
	46.0	5.2	4.6	5.2	4.7	5.7	4.7	5.9	5.0	6.1	5.0	6.6	5.0	7.1	5.0

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMA-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.7	6.2	9.0	6.4	9.7	6.4	10.1	6.8	10.4	6.7	11.0	6.7	11.7	6.6
	22.5	8.7	6.2	9.0	6.4	9.6	6.3	9.9	6.7	10.2	6.7	10.8	6.6	11.5	6.5
	25.0	8.6	6.2	8.8	6.3	9.4	6.3	9.7	6.6	10.0	6.6	10.6	6.5	11.3	6.4
	27.5	8.4	6.1	8.6	6.2	9.2	6.2	9.5	6.5	9.8	6.5	10.4	6.4	11.0	6.3
	30.0	8.3	6.0	8.5	6.1	9.0	6.1	9.3	6.4	9.6	6.4	10.2	6.3	10.8	6.2
	32.5	8.2	5.9	8.3	6.1	8.9	6.0	9.1	6.4	9.4	6.3	10.0	6.2	10.6	6.1
	35.0	8.0	5.9	8.1	6.0	8.7	5.9	9.0	6.3	9.2	6.2	9.8	6.2	10.4	6.1
	37.5	7.9	5.8	8.0	5.9	8.5	5.8	8.8	6.2	9.0	6.2	9.6	6.1	10.2	6.0
	40.0	7.7	5.7	7.8	5.8	8.3	5.8	8.6	6.1	8.8	6.1	9.4	6.0	9.9	5.9
	43.0	7.6	5.6	7.6	5.7	8.1	5.7	8.4	6.0	8.6	6.0	9.1	5.9	9.7	5.8
	46.0	5.9	4.8	5.9	4.9	6.4	4.9	6.7	5.3	6.9	5.3	7.4	5.3	8.0	5.2
100 (11.2)	20.0	10.9	8.5	11.3	8.8	12.1	8.8	12.5	9.4	12.9	9.3	13.7	9.2	14.5	9.1
	22.5	10.8	8.5	11.2	8.8	11.9	8.7	12.3	9.3	12.7	9.2	13.5	9.1	14.3	9.0
	25.0	10.7	8.4	11.0	8.7	11.7	8.6	12.1	9.2	12.5	9.1	13.2	9.0	14.0	8.9
	27.5	10.5	8.3	10.8	8.6	11.5	8.5	11.8	9.1	12.2	9.0	13.0	8.9	13.7	8.8
	30.0	10.3	8.3	10.6	8.5	11.2	8.4	11.6	9.0	12.0	8.9	12.7	8.8	13.5	8.7
	32.5	10.2	8.2	10.3	8.4	11.0	8.3	11.4	8.9	11.7	8.9	12.4	8.7	13.2	8.6
	35.0	10.0	8.1	10.1	8.3	10.8	8.2	11.2	8.8	11.5	8.8	12.2	8.6	12.9	8.5
	37.5	9.8	8.0	9.9	8.2	10.6	8.1	10.9	8.7	11.2	8.7	11.9	8.6	12.6	8.4
	40.0	9.6	7.9	9.7	8.1	10.3	8.0	10.7	8.6	11.0	8.6	11.7	8.5	12.4	8.3
	43.0	9.4	7.8	9.5	8.0	10.1	7.9	10.4	8.5	10.7	8.5	11.4	8.4	12.1	8.2
	46.0	7.3	6.9	7.3	7.1	8.0	7.1	8.3	7.7	8.6	7.7	9.3	7.6	9.9	7.5
125 (14.0)	20.0	13.6	10.4	14.1	10.7	15.1	10.7	15.7	11.4	16.2	11.3	17.2	11.2	18.2	11.0
	22.5	13.6	10.4	14.0	10.7	14.9	10.6	15.4	11.3	15.9	11.2	16.8	11.1	17.8	10.9
	25.0	13.3	10.3	13.7	10.6	14.6	10.5	15.1	11.2	15.6	11.1	16.5	11.0	17.5	10.8
	27.5	13.1	10.2	13.5	10.4	14.3	10.4	14.8	11.0	15.3	11.0	16.2	10.8	17.2	10.7
	30.0	12.9	10.1	13.2	10.3	14.1	10.2	14.5	10.9	15.0	10.9	15.9	10.7	16.8	10.6
	32.5	12.7	10.0	12.9	10.2	13.8	10.1	14.2	10.8	14.7	10.7	15.6	10.6	16.5	10.4
	35.0	12.5	9.9	12.7	10.1	13.5	10.0	14.0	10.7	14.4	10.6	15.2	10.5	16.2	10.3
	37.5	12.3	9.7	12.4	10.0	13.2	9.9	13.6	10.5	14.1	10.5	14.9	10.4	15.8	10.2
	40.0	12.0	9.6	12.2	9.8	12.9	9.8	13.3	10.4	13.8	10.4	14.6	10.2	15.5	10.1
	43.0	11.8	9.5	11.8	9.7	12.6	9.6	13.0	10.3	13.4	10.2	14.2	10.1	15.1	9.9
	46.0	9.1	8.3	9.2	8.5	9.9	8.5	10.3	9.2	10.8	9.2	11.6	9.2	12.4	9.1
140 (16.0)	20.0	15.5	11.7	16.1	12.1	17.3	12.1	17.9	12.8	18.5	12.8	19.6	12.6	20.8	12.4
	22.5	15.5	11.7	16.0	12.0	17.0	12.0	17.6	12.7	18.1	12.6	19.2	12.5	20.4	12.3
	25.0	15.3	11.6	15.7	11.9	16.7	11.8	17.3	12.5	17.8	12.5	18.9	12.3	20.0	12.1
	27.5	15.0	11.5	15.4	11.8	16.4	11.7	16.9	12.4	17.4	12.3	18.5	12.2	19.6	12.0
	30.0	14.8	11.3	15.1	11.6	16.1	11.5	16.6	12.3	17.1	12.2	18.1	12.0	19.2	11.9
	32.5	14.5	11.2	14.8	11.5	15.7	11.4	16.3	12.1	16.8	12.1	17.8	11.9	18.8	11.7
	35.0	14.3	11.1	14.5	11.3	15.4	11.3	16.0	12.0	16.4	11.9	17.4	11.8	18.5	11.6
	37.5	14.0	11.0	14.2	11.2	15.1	11.1	15.6	11.8	16.1	11.8	17.0	11.6	18.1	11.5
	40.0	13.8	10.9	13.9	11.1	14.8	11.0	15.2	11.7	15.7	11.6	16.7	11.5	17.7	11.3
	43.0	13.5	10.7	13.5	10.9	14.4	10.8	14.8	11.5	15.3	11.5	16.3	11.3	17.2	11.2
	46.0	10.4	9.3	10.5	9.6	11.4	9.6	11.8	10.3	12.3	10.3	13.2	10.3	14.2	10.2

kcal/h=kW x 860 , BTU/h = kW x 3,412

2-5. Cooling capacity with PUHY-P450YRJC-A

PEFY-P-VMM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.1	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.9	2.8	1.9
	22.5	2.1	1.7	2.1	1.8	2.3	1.8	2.3	1.9	2.4	1.9	2.6	1.9	2.7	1.9
	25.0	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	2.0	1.7	2.0	1.8	2.2	1.8	2.3	1.9	2.3	1.9	2.5	1.9	2.7	1.8
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.8
	35.0	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.8
	37.5	1.9	1.7	2.0	1.7	2.1	1.7	2.2	1.9	2.3	1.9	2.4	1.8	2.6	1.8
	40.0	1.9	1.7	1.9	1.7	2.1	1.7	2.2	1.9	2.2	1.8	2.4	1.8	2.6	1.8
	43.0	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.4	1.8	2.5	1.8
	46.0	1.5	1.5	1.5	1.5	1.6	1.5	1.7	1.7	1.8	1.7	2.0	1.7	2.1	1.7
25 (2.8)	20.0	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.2	3.1	2.2	3.3	2.2	3.5	2.1
	22.5	2.6	2.0	2.7	2.1	2.9	2.1	3.0	2.2	3.1	2.2	3.3	2.2	3.5	2.1
	25.0	2.6	2.0	2.7	2.1	2.9	2.0	2.9	2.2	3.0	2.2	3.2	2.1	3.5	2.1
	27.5	2.6	2.0	2.6	2.0	2.8	2.0	2.9	2.2	3.0	2.2	3.2	2.1	3.4	2.1
	30.0	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	32.5	2.5	2.0	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	35.0	2.5	1.9	2.5	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.1
	37.5	2.5	1.9	2.5	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.1
	40.0	2.4	1.9	2.5	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.1
	43.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.1	2.8	2.1	3.0	2.1	3.2	2.0
	46.0	1.9	1.7	1.9	1.7	2.1	1.7	2.2	1.9	2.3	1.9	2.5	1.9	2.7	1.9
32 (3.6)	20.0	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.5	2.7
	22.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.8	4.0	2.7	4.2	2.7	4.5	2.7
	25.0	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	30.0	3.3	2.5	3.3	2.5	3.6	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.4	2.6
	32.5	3.2	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.1	2.6	4.3	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.8	2.7	4.0	2.6	4.3	2.6
	37.5	3.2	2.4	3.2	2.5	3.5	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.6	4.2	2.6
	43.0	3.1	2.4	3.1	2.4	3.4	2.4	3.5	2.6	3.6	2.6	3.9	2.6	4.2	2.6
	46.0	2.4	2.1	2.4	2.1	2.7	2.2	2.8	2.3	2.9	2.3	3.2	2.3	3.5	2.3
40 (4.5)	20.0	4.3	3.3	4.4	3.4	4.7	3.4	4.8	3.6	5.0	3.6	5.3	3.5	5.7	3.5
	22.5	4.2	3.3	4.3	3.4	4.6	3.3	4.8	3.6	4.9	3.5	5.3	3.5	5.6	3.5
	25.0	4.2	3.2	4.3	3.3	4.6	3.3	4.7	3.5	4.9	3.5	5.2	3.5	5.6	3.4
	27.5	4.1	3.2	4.2	3.3	4.5	3.3	4.7	3.5	4.8	3.5	5.2	3.5	5.5	3.4
	30.0	4.1	3.2	4.2	3.3	4.5	3.3	4.6	3.5	4.8	3.5	5.1	3.4	5.5	3.4
	32.5	4.0	3.2	4.1	3.3	4.4	3.3	4.6	3.5	4.7	3.5	5.1	3.4	5.4	3.4
	35.0	4.0	3.2	4.1	3.2	4.4	3.2	4.5	3.4	4.7	3.4	5.0	3.4	5.4	3.4
	37.5	4.0	3.1	4.0	3.2	4.3	3.2	4.5	3.4	4.6	3.4	5.0	3.4	5.3	3.4
	40.0	3.9	3.1	4.0	3.2	4.3	3.2	4.4	3.4	4.6	3.4	4.9	3.4	5.3	3.3
	43.0	3.9	3.1	3.9	3.2	4.2	3.2	4.4	3.4	4.5	3.4	4.9	3.3	5.2	3.3
	46.0	3.0	2.7	3.1	2.8	3.4	2.8	3.5	3.0	3.7	3.0	4.0	3.0	4.4	3.0
50 (5.6)	20.0	5.3	4.0	5.5	4.1	5.8	4.1	6.0	4.3	6.2	4.3	6.6	4.3	7.0	4.2
	22.5	5.2	4.0	5.4	4.1	5.8	4.1	6.0	4.3	6.2	4.3	6.6	4.2	7.0	4.2
	25.0	5.2	3.9	5.3	4.0	5.7	4.0	5.9	4.3	6.1	4.3	6.5	4.2	6.9	4.2
	27.5	5.1	3.9	5.3	4.0	5.6	4.0	5.8	4.3	6.0	4.2	6.4	4.2	6.9	4.1
	30.0	5.1	3.9	5.2	4.0	5.6	4.0	5.8	4.2	6.0	4.2	6.4	4.2	6.8	4.1
	32.5	5.0	3.9	5.1	4.0	5.5	3.9	5.7	4.2	5.9	4.2	6.3	4.1	6.7	4.1
	35.0	5.0	3.8	5.1	3.9	5.4	3.9	5.6	4.2	5.8	4.2	6.2	4.1	6.7	4.1
	37.5	4.9	3.8	5.0	3.9	5.4	3.9	5.6	4.1	5.8	4.1	6.2	4.1	6.6	4.1
	40.0	4.9	3.8	4.9	3.9	5.3	3.9	5.5	4.1	5.7	4.1	6.1	4.1	6.5	4.0
	43.0	4.8	3.8	4.9	3.8	5.2	3.8	5.4	4.1	5.6	4.1	6.0	4.0	6.5	4.0
	46.0	3.7	3.3	3.8	3.4	4.2	3.4	4.4	3.7	4.6	3.7	5.0	3.7	5.4	3.6
63 (7.1)	20.0	6.7	5.0	6.9	5.1	7.4	5.1	7.6	5.4	7.9	5.4	8.4	5.3	8.9	5.3
	22.5	6.6	5.0	6.8	5.1	7.3	5.1	7.6	5.4	7.8	5.4	8.3	5.3	8.8	5.2
	25.0	6.6	4.9	6.8	5.1	7.2	5.0	7.5	5.3	7.7	5.3	8.2	5.3	8.8	5.2
	27.5	6.5	4.9	6.7	5.0	7.2	5.0	7.4	5.3	7.6	5.3	8.2	5.2	8.7	5.2
	30.0	6.4	4.9	6.6	5.0	7.1	5.0	7.3	5.3	7.6	5.3	8.1	5.2	8.6	5.1
	32.5	6.4	4.8	6.5	4.9	7.0	4.9	7.2	5.2	7.5	5.2	8.0	5.2	8.5	5.1
	35.0	6.3	4.8	6.4	4.9	6.9	4.9	7.1	5.2	7.4	5.2	7.9	5.1	8.5	5.1
	37.5	6.2	4.8	6.3	4.9	6.8	4.9	7.1	5.2	7.3	5.2	7.8	5.1	8.4	5.1
	40.0	6.2	4.7	6.3	4.8	6.7	4.8	7.0	5.1	7.2	5.1	7.8	5.1	8.3	5.0
	43.0	6.1	4.7	6.2	4.8	6.7	4.8	6.9	5.1	7.1	5.1	7.7	5.1	8.2	5.0
	46.0	4.7	4.1	4.8	4.2	5.3	4.2	5.6	4.5	5.8	4.6	6.3	4.6	6.9	4.5
71 (8.0)	20.0	7.6	5.6	7.8	5.8	8.3	5.7	8.6	6.1	8.9	6.0	9.4	6.0	10.0	5.9
	22.5	7.5	5.6	7.7	5.7	8.2	5.7	8.5	6.0	8.8	6.0	9.4	5.9	10.0	5.9
	25.0	7.4	5.5	7.6	5.7	8.1	5.6	8.4	6.0	8.7	6.0	9.3	5.9	9.9	5.8
	27.5	7.3	5.5	7.5	5.6	8.1	5.6	8.3	5.9	8.6	5.9	9.2	5.9	9.8	5.8
	30.0	7.3	5.4	7.4	5.6	8.0	5.6	8.2	5.9	8.5	5.9	9.1	5.8	9.7	5.8
	32.5	7.2	5.4	7.3	5.5	7.9	5.5	8.2	5.9	8.4	5.8	9.0	5.8	9.6	5.7
	35.0	7.1	5.4	7.2	5.5	7.8	5.5	8.0	5.8	8.3	5.8	8.9	5.8	9.5	5.7
	37.5	7.0	5.3	7.2	5.4	7.7	5.4	8.0	5.8	8.3	5.8	8.8	5.7	9.4	5.7
	40.0	7.0	5.3	7.1	5.4	7.6	5.4	7.9	5.7	8.2	5.7	8.7	5.7	9.4	5.6
	43.0	6.9	5.3	7.0	5.4	7.5	5.4	7.8	5.7	8.1	5.7	8.6	5.7	9.2	5.6
	46.0	5.4	4.5	5.4	4.7	6.0	4.7	6.3	5.1	6.5	5.1	7.1	5.1	7.7	5.1

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.5	6.1	8.8	6.2	9.4	6.2	9.7	6.5	10.0	6.5	10.6	6.4	11.3	6.4
	22.5	8.4	6.0	8.7	6.2	9.3	6.2	9.6	6.5	9.9	6.5	10.5	6.4	11.2	6.3
	25.0	8.3	6.0	8.6	6.1	9.2	6.1	9.5	6.5	9.8	6.4	10.4	6.4	11.1	6.3
	27.5	8.3	5.9	8.5	6.1	9.1	6.1	9.4	6.4	9.7	6.4	10.3	6.3	11.0	6.2
	30.0	8.2	5.9	8.4	6.0	9.0	6.0	9.3	6.4	9.6	6.3	10.2	6.3	10.9	6.2
	32.5	8.1	5.9	8.3	6.0	8.9	6.0	9.2	6.3	9.5	6.3	10.1	6.2	10.8	6.2
	35.0	8.0	5.8	8.1	5.9	8.8	5.9	9.0	6.2	9.4	6.2	10.0	6.2	10.7	6.1
	37.5	7.9	5.8	8.0	5.9	8.7	5.9	9.0	6.2	9.3	6.2	9.9	6.2	10.6	6.1
	40.0	7.8	5.7	7.9	5.8	8.6	5.8	8.9	6.2	9.2	6.2	9.8	6.1	10.5	6.1
	43.0	7.7	5.7	7.8	5.8	8.4	5.8	8.7	6.1	9.1	6.1	9.7	6.1	10.4	6.0
	46.0	6.0	4.8	6.1	5.0	6.7	5.0	7.0	5.4	7.4	5.4	8.0	5.4	8.7	5.4
100 (11.2)	20.0	10.6	8.3	10.9	8.5	11.7	8.5	12.0	9.0	12.4	9.0	13.2	8.9	14.1	8.8
	22.5	10.5	8.2	10.8	8.5	11.5	8.4	11.9	9.0	12.3	8.9	13.1	8.8	13.9	8.7
	25.0	10.4	8.2	10.6	8.4	11.4	8.4	11.8	8.9	12.2	8.9	13.0	8.8	13.8	8.7
	27.5	10.3	8.1	10.5	8.3	11.3	8.3	11.7	8.9	12.1	8.8	12.9	8.7	13.7	8.6
	30.0	10.2	8.1	10.4	8.3	11.2	8.3	11.5	8.8	11.9	8.8	12.7	8.7	13.6	8.6
	32.5	10.1	8.0	10.3	8.2	11.0	8.2	11.4	8.8	11.8	8.7	12.6	8.7	13.5	8.6
	35.0	9.9	8.0	10.1	8.2	10.9	8.2	11.2	8.7	11.7	8.7	12.5	8.6	13.3	8.5
	37.5	9.8	7.9	10.0	8.1	10.8	8.1	11.2	8.7	11.6	8.6	12.4	8.6	13.2	8.5
	40.0	9.7	7.9	9.9	8.1	10.6	8.0	11.0	8.6	11.4	8.6	12.2	8.5	13.1	8.4
	43.0	9.6	7.8	9.7	8.0	10.5	8.0	10.9	8.5	11.3	8.5	12.1	8.5	12.9	8.4
	46.0	7.5	6.8	7.6	7.1	8.4	7.1	8.8	7.7	9.2	7.7	10.0	7.7	10.8	7.7
125 (14.0)	20.0	13.2	10.1	13.6	10.4	14.6	10.4	15.1	11.0	15.5	11.0	16.5	10.8	17.6	10.7
	22.5	13.1	10.1	13.5	10.4	14.4	10.3	14.9	11.0	15.4	10.9	16.4	10.8	17.4	10.6
	25.0	13.0	10.0	13.3	10.3	14.3	10.2	14.7	10.9	15.2	10.8	16.2	10.7	17.3	10.6
	27.5	12.8	9.9	13.2	10.2	14.1	10.2	14.6	10.8	15.1	10.8	16.1	10.7	17.1	10.5
	30.0	12.7	9.9	13.0	10.1	13.9	10.1	14.4	10.8	14.9	10.7	15.9	10.6	17.0	10.5
	32.5	12.6	9.8	12.8	10.1	13.8	10.0	14.3	10.7	14.8	10.6	15.8	10.6	16.8	10.4
	35.0	12.4	9.7	12.7	10.0	13.6	10.0	14.0	10.6	14.6	10.6	15.6	10.5	16.7	10.4
	37.5	12.3	9.7	12.5	9.9	13.5	9.9	14.0	10.6	14.4	10.5	15.5	10.4	16.5	10.3
	40.0	12.2	9.6	12.4	9.8	13.3	9.8	13.8	10.5	14.3	10.5	15.3	10.4	16.4	10.3
	43.0	12.0	9.5	12.2	9.7	13.1	9.7	13.6	10.4	14.1	10.4	15.1	10.3	16.2	10.2
	46.0	9.4	8.3	9.5	8.6	10.5	8.6	11.0	9.3	11.5	9.3	12.5	9.4	13.5	9.3

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMA-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp. 21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.1	1.9	2.3	1.9	2.4	2.1	2.4	2.0	2.6	2.0	2.8	2.0
	22.5	2.1	1.8	2.1	1.9	2.3	1.9	2.3	2.0	2.4	2.0	2.6	2.0	2.7	2.0
	25.0	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.7	2.0
	27.5	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.7	2.0
	30.0	2.0	1.8	2.0	1.9	2.2	1.9	2.3	2.0	2.3	2.0	2.5	2.0	2.7	2.0
	32.5	2.0	1.8	2.0	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	35.0	2.0	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.3	2.0	2.5	2.0	2.6	1.9
	37.5	1.9	1.8	2.0	1.8	2.1	1.8	2.2	2.0	2.3	2.0	2.4	2.0	2.6	1.9
	40.0	1.9	1.8	1.9	1.8	2.1	1.8	2.2	2.0	2.2	2.0	2.4	2.0	2.6	1.9
	43.0	1.9	1.8	1.9	1.8	2.1	1.8	2.1	2.0	2.2	2.0	2.4	1.9	2.5	1.9
	46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	2.0	1.8	2.1	1.8
25 (2.8)	20.0	2.6	2.2	2.7	2.3	2.9	2.2	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.3
	22.5	2.6	2.2	2.7	2.2	2.9	2.2	3.0	2.4	3.1	2.4	3.3	2.3	3.5	2.3
	25.0	2.6	2.2	2.7	2.2	2.9	2.2	2.9	2.4	3.0	2.4	3.2	2.3	3.5	2.3
	27.5	2.6	2.1	2.6	2.2	2.8	2.2	2.9	2.4	3.0	2.3	3.2	2.3	3.4	2.3
	30.0	2.5	2.1	2.6	2.2	2.8	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.3
	32.5	2.5	2.1	2.6	2.2	2.8	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.3
	35.0	2.5	2.1	2.5	2.2	2.7	2.2	2.8	2.3	2.9	2.3	3.1	2.3	3.3	2.3
	37.5	2.5	2.1	2.5	2.2	2.7	2.1	2.8	2.3	2.9	2.3	3.1	2.3	3.3	2.3
	40.0	2.4	2.1	2.5	2.1	2.7	2.1	2.8	2.3	2.9	2.3	3.1	2.3	3.3	2.2
	43.0	2.4	2.1	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.2
	46.0	1.9	1.8	1.9	1.9	2.1	1.9	2.2	2.1	2.3	2.1	2.5	2.1	2.7	2.1
32 (3.6)	20.0	3.4	3.0	3.5	3.1	3.7	3.1	3.9	3.3	4.0	3.3	4.3	3.3	4.5	3.3
	22.5	3.4	3.0	3.5	3.1	3.7	3.1	3.8	3.3	4.0	3.3	4.2	3.3	4.5	3.2
	25.0	3.3	3.0	3.4	3.1	3.7	3.1	3.8	3.3	3.9	3.3	4.2	3.3	4.4	3.2
	27.5	3.3	3.0	3.4	3.1	3.6	3.1	3.8	3.3	3.9	3.3	4.1	3.3	4.4	3.2
	30.0	3.3	3.0	3.3	3.1	3.6	3.0	3.7	3.3	3.8	3.3	4.1	3.2	4.4	3.2
	32.5	3.2	2.9	3.3	3.0	3.5	3.0	3.7	3.3	3.8	3.3	4.1	3.2	4.3	3.2
	35.0	3.2	2.9	3.3	3.0	3.5	3.0	3.6	3.2	3.8	3.2	4.0	3.2	4.3	3.2
	37.5	3.2	2.9	3.2	3.0	3.5	3.0	3.6	3.2	3.7	3.2	4.0	3.2	4.2	3.2
	40.0	3.1	2.9	3.2	3.0	3.4	3.0	3.5	3.2	3.7	3.2	3.9	3.2	4.2	3.2
	43.0	3.1	2.9	3.1	3.0	3.4	3.0	3.5	3.2	3.6	3.2	3.9	3.2	4.2	3.1
	46.0	2.4	2.4	2.4	2.4	2.7	2.7	2.8	2.8	2.9	2.9	3.2	2.9	3.5	2.9
40 (4.5)	20.0	4.3	3.7	4.4	3.9	4.7	3.8	4.8	4.1	5.0	4.1	5.3	4.1	5.7	4.0
	22.5	4.2	3.7	4.3	3.8	4.6	3.8	4.8	4.1	4.9	4.1	5.3	4.0	5.6	4.0
	25.0	4.2	3.7	4.3	3.8	4.6	3.8	4.7	4.1	4.9	4.1	5.2	4.0	5.6	4.0
	27.5	4.1	3.7	4.2	3.8	4.5	3.8	4.7	4.1	4.8	4.0	5.2	4.0	5.5	4.0
	30.0	4.1	3.6	4.2	3.8	4.5	3.8	4.6	4.0	4.8	4.0	5.1	4.0	5.5	3.9
	32.5	4.0	3.6	4.1	3.7	4.4	3.7	4.6	4.0	4.7	4.0	5.1	4.0	5.4	3.9
	35.0	4.0	3.6	4.1	3.7	4.4	3.7	4.5	4.0	4.7	4.0	5.0	4.0	5.4	3.9
	37.5	4.0	3.6	4.0	3.7	4.3	3.7	4.5	4.0	4.6	4.0	5.0	3.9	5.3	3.9
	40.0	3.9	3.6	4.0	3.7	4.3	3.7	4.4	4.0	4.6	3.9	4.9	3.9	5.3	3.9
	43.0	3.9	3.5	3.9	3.7	4.2	3.6	4.4	3.9	4.5	3.9	4.9	3.9	5.2	3.9
	46.0	3.0	3.0	3.1	3.1	3.4	3.3	3.5	3.5	3.7	3.6	4.0	3.6	4.4	3.6
50 (5.6)	20.0	5.3	4.5	5.5	4.7	5.8	4.7	6.0	5.0	6.2	5.0	6.6	4.9	7.0	4.9
	22.5	5.2	4.5	5.4	4.7	5.8	4.7	6.0	5.0	6.2	5.0	6.6	4.9	7.0	4.9
	25.0	5.2	4.5	5.3	4.7	5.7	4.6	5.9	5.0	6.1	5.0	6.5	4.9	6.9	4.8
	27.5	5.1	4.5	5.3	4.6	5.6	4.6	5.8	5.0	6.0	4.9	6.4	4.9	6.9	4.8
	30.0	5.1	4.5	5.2	4.6	5.6	4.6	5.8	4.9	6.0	4.9	6.4	4.9	6.8	4.8
	32.5	5.0	4.4	5.1	4.6	5.5	4.6	5.7	4.9	5.9	4.9	6.3	4.8	6.7	4.8
	35.0	5.0	4.4	5.1	4.5	5.4	4.5	5.6	4.9	5.8	4.9	6.2	4.8	6.7	4.8
	37.5	4.9	4.4	5.0	4.5	5.4	4.5	5.6	4.9	5.8	4.8	6.2	4.8	6.6	4.7
	40.0	4.9	4.4	4.9	4.5	5.3	4.5	5.5	4.8	5.7	4.8	6.1	4.8	6.5	4.7
	43.0	4.8	4.3	4.9	4.5	5.2	4.4	5.4	4.8	5.6	4.8	6.0	4.7	6.5	4.7
	46.0	3.7	3.7	3.8	3.8	4.2	4.0	4.4	4.4	4.6	4.4	5.0	4.4	5.4	4.4
63 (7.1)	20.0	6.7	5.2	6.9	5.4	7.4	5.3	7.6	5.7	7.9	5.7	8.4	5.6	8.9	5.5
	22.5	6.6	5.2	6.8	5.3	7.3	5.3	7.6	5.7	7.8	5.6	8.3	5.6	8.8	5.5
	25.0	6.6	5.1	6.8	5.3	7.2	5.3	7.5	5.6	7.7	5.6	8.2	5.5	8.8	5.5
	27.5	6.5	5.1	6.7	5.3	7.2	5.2	7.4	5.6	7.6	5.6	8.2	5.5	8.7	5.4
	30.0	6.4	5.1	6.6	5.2	7.1	5.2	7.3	5.6	7.6	5.5	8.1	5.5	8.6	5.4
	32.5	6.4	5.1	6.5	5.2	7.0	5.2	7.2	5.5	7.5	5.5	8.0	5.4	8.5	5.4
	35.0	6.3	5.0	6.4	5.1	6.9	5.1	7.1	5.5	7.4	5.5	7.9	5.4	8.5	5.4
	37.5	6.2	5.0	6.3	5.1	6.8	5.1	7.1	5.5	7.3	5.4	7.8	5.4	8.4	5.3
	40.0	6.2	5.0	6.3	5.1	6.7	5.1	7.0	5.4	7.2	5.4	7.8	5.4	8.3	5.3
	43.0	6.1	4.9	6.2	5.0	6.7	5.0	6.9	5.4	7.1	5.4	7.7	5.3	8.2	5.3
	46.0	4.7	4.3	4.8	4.4	5.3	4.5	5.6	4.8	5.8	4.8	6.3	4.8	6.9	4.8
71 (8.0)	20.0	7.6	5.7	7.8	5.8	8.3	5.8	8.6	6.1	8.9	6.1	9.4	6.0	10.0	6.0
	22.5	7.5	5.6	7.7	5.8	8.2	5.8	8.5	6.1	8.8	6.1	9.4	6.0	10.0	5.9
	25.0	7.4	5.6	7.6	5.7	8.1	5.7	8.4	6.1	8.7	6.0	9.3	6.0	9.9	5.9
	27.5	7.3	5.6	7.5	5.7	8.1	5.7	8.3	6.0	8.6	6.0	9.2	5.9	9.8	5.9
	30.0	7.3	5.5	7.4	5.7	8.0	5.6	8.2	6.0	8.5	6.0	9.1	5.9	9.7	5.8
	32.5	7.2	5.5	7.3	5.6	7.9	5.6	8.2	6.0	8.4	5.9	9.0	5.9	9.6	5.8
	35.0	7.1	5.4	7.2	5.6	7.8	5.6	8.0	5.9	8.3	5.9	8.9	5.8	9.5	5.8
	37.5	7.0	5.4	7.2	5.5	7.7	5.5	8.0	5.9	8.3	5.9	8.8	5.8	9.4	5.8
	40.0	7.0	5.4	7.1	5.5	7.6	5.5	7.9	5.8	8.2	5.8	8.7	5.8	9.4	5.7
	43.0	6.9	5.3	7.0	5.4	7.5	5.4	7.8	5.8	8.1	5.8	8.6	5.7	9.2	5.7
	46.0	5.4	4.6	5.4	4.7	6.0	4.8	6.3	5.2	6.5	5.2	7.1	5.2	7.7	5.2

kcal/h=kW x 860 , BTU/h = kW x 3,412

2. Cooling [Ceiling concealed (Middle static pressure type)]

PEFY-P-VMA-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.5	6.1	8.8	6.3	9.4	6.3	9.7	6.6	10.0	6.6	10.6	6.5	11.3	6.4
	22.5	8.4	6.1	8.7	6.2	9.3	6.2	9.6	6.6	9.9	6.5	10.5	6.5	11.2	6.4
	25.0	8.3	6.0	8.6	6.2	9.2	6.2	9.5	6.5	9.8	6.5	10.4	6.4	11.1	6.3
	27.5	8.3	6.0	8.5	6.1	9.1	6.1	9.4	6.5	9.7	6.4	10.3	6.4	11.0	6.3
	30.0	8.2	5.9	8.4	6.1	9.0	6.1	9.3	6.4	9.6	6.4	10.2	6.3	10.9	6.3
	32.5	8.1	5.9	8.3	6.0	8.9	6.0	9.2	6.4	9.5	6.3	10.1	6.3	10.8	6.2
	35.0	8.0	5.9	8.1	6.0	8.8	6.0	9.0	6.3	9.4	6.3	10.0	6.3	10.7	6.2
	37.5	7.9	5.8	8.0	5.9	8.7	5.9	9.0	6.3	9.3	6.3	9.9	6.2	10.6	6.1
	40.0	7.8	5.8	7.9	5.9	8.6	5.9	8.9	6.2	9.2	6.2	9.8	6.2	10.5	6.1
	43.0	7.7	5.7	7.8	5.8	8.4	5.8	8.7	6.2	9.1	6.2	9.7	6.1	10.4	6.1
	46.0	6.0	4.9	6.1	5.0	6.7	5.1	7.0	5.5	7.4	5.5	8.0	5.5	8.7	5.5
100 (11.2)	20.0	10.6	8.4	10.9	8.7	11.7	8.6	12.0	9.2	12.4	9.1	13.2	9.0	14.1	8.9
	22.5	10.5	8.3	10.8	8.6	11.5	8.5	11.9	9.1	12.3	9.1	13.1	9.0	13.9	8.9
	25.0	10.4	8.3	10.6	8.5	11.4	8.5	11.8	9.1	12.2	9.0	13.0	8.9	13.8	8.8
	27.5	10.3	8.2	10.5	8.5	11.3	8.4	11.7	9.0	12.1	9.0	12.9	8.9	13.7	8.8
	30.0	10.2	8.2	10.4	8.4	11.2	8.4	11.5	9.0	11.9	8.9	12.7	8.8	13.6	8.7
	32.5	10.1	8.1	10.3	8.4	11.0	8.3	11.4	8.9	11.8	8.9	12.6	8.8	13.5	8.7
	35.0	9.9	8.1	10.1	8.3	10.9	8.3	11.2	8.8	11.7	8.8	12.5	8.8	13.3	8.7
	37.5	9.8	8.0	10.0	8.2	10.8	8.2	11.2	8.8	11.6	8.8	12.4	8.7	13.2	8.6
	40.0	9.7	8.0	9.9	8.2	10.6	8.2	11.0	8.8	11.4	8.7	12.2	8.7	13.1	8.6
	43.0	9.6	7.9	9.7	8.1	10.5	8.1	10.9	8.7	11.3	8.7	12.1	8.6	12.9	8.5
	46.0	7.5	7.0	7.6	7.2	8.4	7.2	8.8	7.9	9.2	7.9	10.0	7.9	10.8	7.8
125 (14.0)	20.0	13.2	10.2	13.6	10.5	14.6	10.5	15.1	11.1	15.5	11.1	16.5	11.0	17.6	10.8
	22.5	13.1	10.2	13.5	10.5	14.4	10.4	14.9	11.1	15.4	11.0	16.4	10.9	17.4	10.8
	25.0	13.0	10.1	13.3	10.4	14.3	10.3	14.7	11.0	15.2	11.0	16.2	10.8	17.3	10.7
	27.5	12.8	10.0	13.2	10.3	14.1	10.3	14.6	10.9	15.1	10.9	16.1	10.8	17.1	10.7
	30.0	12.7	10.0	13.0	10.2	13.9	10.2	14.4	10.9	14.9	10.8	15.9	10.7	17.0	10.6
	32.5	12.6	9.9	12.8	10.2	13.8	10.1	14.3	10.8	14.8	10.8	15.8	10.7	16.8	10.5
	35.0	12.4	9.8	12.7	10.1	13.6	10.1	14.0	10.7	14.6	10.7	15.6	10.6	16.7	10.5
	37.5	12.3	9.8	12.5	10.0	13.5	10.0	14.0	10.7	14.4	10.6	15.5	10.6	16.5	10.4
	40.0	12.2	9.7	12.4	9.9	13.3	9.9	13.8	10.6	14.3	10.6	15.3	10.5	16.4	10.4
	43.0	12.0	9.6	12.2	9.9	13.1	9.8	13.6	10.5	14.1	10.5	15.1	10.4	16.2	10.3
	46.0	9.4	8.4	9.5	8.7	10.5	8.7	11.0	9.5	11.5	9.5	12.5	9.5	13.5	9.4
140 (16.0)	20.0	15.1	11.5	15.6	11.9	16.7	11.8	17.2	12.5	17.8	12.5	18.9	12.3	20.1	12.2
	22.5	15.0	11.4	15.4	11.8	16.5	11.7	17.0	12.5	17.6	12.4	18.7	12.3	19.9	12.1
	25.0	14.8	11.4	15.2	11.7	16.3	11.6	16.8	12.4	17.4	12.3	18.5	12.2	19.7	12.0
	27.5	14.7	11.3	15.0	11.6	16.1	11.6	16.7	12.3	17.2	12.2	18.4	12.1	19.6	12.0
	30.0	14.5	11.2	14.9	11.5	15.9	11.5	16.5	12.2	17.0	12.2	18.2	12.1	19.4	11.9
	32.5	14.4	11.1	14.7	11.4	15.8	11.4	16.3	12.1	16.9	12.1	18.0	12.0	19.2	11.9
	35.0	14.2	11.1	14.5	11.3	15.6	11.3	16.0	12.0	16.7	12.0	17.8	11.9	19.1	11.8
	37.5	14.1	11.0	14.3	11.3	15.4	11.2	15.9	12.0	16.5	12.0	17.7	11.9	18.9	11.7
	40.0	13.9	10.9	14.1	11.2	15.2	11.2	15.8	11.9	16.3	11.9	17.5	11.8	18.7	11.7
	43.0	13.7	10.8	13.9	11.1	15.0	11.1	15.6	11.8	16.1	11.8	17.3	11.7	18.5	11.6
	46.0	10.7	9.4	10.9	9.7	12.0	9.8	12.5	10.6	13.1	10.6	14.3	10.6	15.5	10.6

kcal/h=kW x 860 , BTU/h = kW x 3,412

3-1. Cooling capacity with PUMY-P100-140YHMC-C/VHMC-S

PMFY-P-VBM-EC

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp. 21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.4	2.0	2.6	2.0	2.7	1.9
	22.5	2.0	1.8	2.1	1.9	2.3	1.9	2.3	2.0	2.4	2.0	2.6	2.0	2.7	1.9
	25.0	2.0	1.8	2.1	1.9	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.6	1.9
	27.5	2.0	1.8	2.1	1.9	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.6	1.9
	30.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	2.0	2.3	1.9	2.5	1.9	2.6	1.9
	32.5	1.9	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.9
	35.0	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.2	1.9	2.4	1.9	2.5	1.9
	40.0	1.8	1.7	1.9	1.8	2.1	1.8	2.1	1.9	2.2	1.9	2.4	1.9	2.5	1.9
	43.0	1.8	1.7	1.9	1.8	2.1	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.8
	46.0	1.7	1.7	1.9	1.7	2.0	1.8	2.1	1.9	2.1	1.9	2.3	1.9	2.4	1.8
25 (2.8)	20.0	2.6	2.2	2.8	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.4	2.3
	22.5	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.2	2.4	3.4	2.3
	25.0	2.6	2.2	2.7	2.3	2.9	2.3	2.9	2.4	3.0	2.4	3.2	2.4	3.4	2.3
	27.5	2.5	2.2	2.7	2.3	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.4	3.3	2.3
	30.0	2.5	2.2	2.6	2.3	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.3	3.3	2.3
	32.5	2.5	2.1	2.6	2.2	2.8	2.2	2.8	2.4	2.9	2.4	3.1	2.3	3.3	2.3
	35.0	2.4	2.1	2.6	2.2	2.7	2.2	2.8	2.4	2.9	2.3	3.1	2.3	3.2	2.3
	37.5	2.4	2.1	2.5	2.2	2.7	2.2	2.8	2.3	2.8	2.3	3.0	2.3	3.2	2.3
	40.0	2.3	2.1	2.5	2.2	2.7	2.2	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.3
	43.0	2.3	2.1	2.4	2.2	2.6	2.2	2.7	2.3	2.7	2.3	3.0	2.3	3.1	2.2
	46.0	2.2	2.0	2.4	2.1	2.6	2.1	2.6	2.3	2.7	2.3	2.9	2.3	3.1	2.2
32 (3.6)	20.0	3.4	2.5	3.6	2.7	3.7	2.6	3.9	2.8	4.0	2.8	4.2	2.7	4.4	2.7
	22.5	3.3	2.5	3.5	2.6	3.7	2.6	3.8	2.8	4.0	2.7	4.2	2.7	4.4	2.6
	25.0	3.3	2.5	3.5	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.3	2.6
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.9	2.7	4.1	2.7	4.3	2.6
	30.0	3.2	2.5	3.4	2.6	3.6	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.2	2.6
	32.5	3.2	2.4	3.3	2.6	3.6	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.1	2.4	3.3	2.5	3.5	2.5	3.6	2.7	3.7	2.6	4.0	2.6	4.2	2.6
	37.5	3.1	2.4	3.2	2.5	3.5	2.5	3.6	2.6	3.7	2.6	3.9	2.6	4.1	2.5
	40.0	3.0	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.9	2.6	4.1	2.5
	43.0	2.9	2.3	3.1	2.4	3.4	2.4	3.4	2.6	3.5	2.6	3.8	2.6	4.0	2.5
	46.0	2.9	2.3	3.0	2.4	3.3	2.4	3.4	2.6	3.5	2.5	3.7	2.5	3.9	2.5
40 (4.5)	20.0	4.2	3.1	4.4	3.2	4.7	3.2	4.8	3.4	5.0	3.4	5.3	3.3	5.5	3.2
	22.5	4.2	3.1	4.4	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.2	3.3	5.5	3.2
	25.0	4.1	3.1	4.3	3.2	4.6	3.2	4.7	3.3	4.9	3.3	5.2	3.3	5.4	3.2
	27.5	4.1	3.0	4.3	3.2	4.5	3.1	4.7	3.3	4.8	3.3	5.1	3.3	5.4	3.2
	30.0	4.0	3.0	4.2	3.1	4.5	3.1	4.6	3.3	4.8	3.3	5.1	3.2	5.3	3.2
	32.5	4.0	3.0	4.2	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.0	3.2	5.3	3.1
	35.0	3.9	3.0	4.1	3.1	4.4	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.2	3.1
	37.5	3.8	2.9	4.0	3.1	4.3	3.0	4.5	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	40.0	3.8	2.9	4.0	3.0	4.3	3.0	4.4	3.2	4.5	3.2	4.8	3.1	5.1	3.1
	43.0	3.7	2.8	3.9	3.0	4.2	3.0	4.3	3.2	4.4	3.1	4.8	3.1	5.0	3.1
	46.0	3.6	2.8	3.8	2.9	4.1	3.0	4.2	3.1	4.3	3.1	4.7	3.1	4.9	3.0

kcal/h=kW x 860 , BTU/h = kW x 3,412

3-2. Cooling capacity with PUMY-P200-250YKMC-C

PMFY-P-VBM-EC

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.4	1.9	2.4	2.0	2.5	2.0	2.7	2.0	2.8	1.9
	22.5	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.5	2.0	2.6	2.0	2.7	1.9
	25.0	2.0	1.8	2.1	1.9	2.3	1.9	2.4	2.0	2.5	2.0	2.6	2.0	2.7	1.9
	27.5	2.0	1.8	2.1	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.6	2.0	2.6	1.9
	30.0	2.0	1.8	2.0	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.6	1.9
	32.5	1.9	1.7	2.0	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.6	1.9
	35.0	1.8	1.7	1.9	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.9
	37.5	1.8	1.7	1.9	1.8	2.1	1.8	2.2	1.9	2.2	1.9	2.4	1.9	2.5	1.9
	40.0	1.8	1.7	1.8	1.7	2.0	1.7	2.1	1.9	2.2	1.9	2.4	1.9	2.4	1.8
	43.0	1.7	1.6	1.8	1.7	1.9	1.7	2.0	1.9	2.1	1.9	2.3	1.9	2.4	1.8
	46.0	1.6	1.6	1.7	1.7	1.8	1.7	1.9	1.8	2.0	1.8	2.2	1.8	2.3	1.8
25 (2.8)	20.0	2.7	2.2	2.8	2.3	3.0	2.3	3.1	2.5	3.2	2.5	3.4	2.4	3.5	2.4
	22.5	2.6	2.2	2.7	2.3	2.9	2.3	3.1	2.5	3.2	2.5	3.4	2.4	3.4	2.3
	25.0	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.4	2.3
	27.5	2.5	2.2	2.6	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.4	2.3
	30.0	2.5	2.1	2.6	2.2	2.8	2.2	2.9	2.4	3.1	2.4	3.2	2.4	3.3	2.3
	32.5	2.4	2.1	2.5	2.2	2.7	2.2	2.9	2.4	3.0	2.4	3.2	2.4	3.3	2.3
	35.0	2.4	2.1	2.5	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.1	2.3	3.2	2.3
	37.5	2.3	2.1	2.4	2.2	2.6	2.2	2.7	2.3	2.9	2.3	3.1	2.3	3.2	2.3
	40.0	2.2	2.0	2.3	2.1	2.5	2.1	2.7	2.3	2.8	2.3	3.0	2.3	3.1	2.2
	43.0	2.1	2.0	2.2	2.1	2.5	2.1	2.6	2.3	2.7	2.3	2.9	2.3	3.0	2.2
	46.0	2.0	1.9	2.1	2.0	2.4	2.0	2.5	2.2	2.5	2.2	2.8	2.2	2.9	2.2
32 (3.6)	20.0	3.4	2.6	3.6	2.7	3.9	2.7	4.0	2.8	4.1	2.8	4.4	2.8	4.5	2.7
	22.5	3.4	2.5	3.5	2.6	3.8	2.6	3.9	2.8	4.1	2.8	4.3	2.8	4.4	2.7
	25.0	3.3	2.5	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.4	2.6
	27.5	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.8	4.0	2.8	4.2	2.7	4.3	2.6
	30.0	3.2	2.5	3.3	2.5	3.6	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.3	2.6
	32.5	3.1	2.4	3.2	2.5	3.5	2.5	3.7	2.7	3.9	2.7	4.1	2.7	4.2	2.6
	35.0	3.0	2.4	3.2	2.5	3.5	2.5	3.6	2.7	3.8	2.7	4.0	2.6	4.1	2.6
	37.5	3.0	2.3	3.1	2.4	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.6	4.1	2.5
	40.0	2.9	2.3	3.0	2.4	3.3	2.4	3.4	2.6	3.6	2.6	3.9	2.6	4.0	2.5
	43.0	2.7	2.2	2.9	2.3	3.2	2.4	3.3	2.5	3.5	2.5	3.7	2.5	3.9	2.5
	46.0	2.6	2.2	2.7	2.3	3.0	2.3	3.2	2.5	3.3	2.5	3.6	2.5	3.8	2.4
40 (4.5)	20.0	4.3	3.1	4.5	3.3	4.8	3.3	5.0	3.5	5.1	3.4	5.4	3.4	5.6	3.3
	22.5	4.2	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.1	3.4	5.4	3.4	5.5	3.2
	25.0	4.1	3.1	4.3	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.4	3.4	5.5	3.2
	27.5	4.1	3.1	4.2	3.1	4.6	3.2	4.8	3.4	5.0	3.4	5.3	3.3	5.4	3.2
	30.0	4.0	3.0	4.1	3.1	4.5	3.1	4.7	3.3	4.9	3.3	5.2	3.3	5.4	3.2
	32.5	3.9	3.0	4.1	3.1	4.4	3.1	4.6	3.3	4.8	3.3	5.1	3.2	5.3	3.2
	35.0	3.8	2.9	4.0	3.0	4.3	3.0	4.5	3.2	4.7	3.3	5.0	3.2	5.2	3.1
	37.5	3.7	2.9	3.9	3.0	4.2	3.0	4.4	3.2	4.6	3.2	4.9	3.2	5.1	3.1
	40.0	3.6	2.8	3.7	2.9	4.1	2.9	4.3	3.1	4.5	3.1	4.8	3.1	5.0	3.1
	43.0	3.4	2.7	3.6	2.8	4.0	2.9	4.1	3.1	4.3	3.1	4.7	3.1	4.9	3.0
	46.0	3.3	2.7	3.4	2.8	3.8	2.8	4.0	3.0	4.1	3.0	4.5	3.0	4.7	3.0

kcal/h=kW x 860 , BTU/h = kW x 3,412

3-3. Cooling capacity with PUHY-P300YRJC-A

PMFY-P-VBM-EC

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.5	2.0	2.6	2.0	2.8	1.9
	22.5	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.5	2.0	2.6	2.0	2.8	1.9
	25.0	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.4	2.0	2.6	2.0	2.7	1.9
	27.5	2.1	1.8	2.1	1.9	2.3	1.9	2.3	2.0	2.4	2.0	2.5	1.9	2.7	1.9
	30.0	2.0	1.8	2.1	1.9	2.2	1.8	2.3	2.0	2.3	2.0	2.5	1.9	2.6	1.9
	32.5	2.0	1.8	2.1	1.8	2.2	1.8	2.2	2.0	2.3	1.9	2.4	1.9	2.6	1.9
	35.0	2.0	1.8	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.2	1.9	2.3	1.9	2.5	1.8
	40.0	1.9	1.7	2.0	1.8	2.1	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.8
	43.0	1.8	1.7	1.9	1.8	2.0	1.7	2.1	1.9	2.1	1.9	2.2	1.8	2.3	1.8
	46.0	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.7	1.9	1.7
25 (2.8)	20.0	2.7	2.2	2.8	2.3	2.9	2.3	3.0	2.5	3.1	2.4	3.3	2.4	3.5	2.4
	22.5	2.7	2.2	2.8	2.3	2.9	2.3	3.0	2.5	3.1	2.4	3.3	2.4	3.5	2.4
	25.0	2.7	2.2	2.8	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	27.5	2.7	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.0	2.4	3.2	2.4	3.4	2.3
	30.0	2.6	2.2	2.7	2.3	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.3	3.3	2.3
	32.5	2.6	2.2	2.6	2.3	2.8	2.2	2.9	2.4	2.9	2.4	3.1	2.3	3.3	2.3
	35.0	2.5	2.2	2.6	2.2	2.7	2.2	2.8	2.4	2.9	2.3	3.0	2.3	3.2	2.3
	37.5	2.5	2.1	2.5	2.2	2.7	2.2	2.8	2.3	2.8	2.3	3.0	2.3	3.1	2.2
	40.0	2.4	2.1	2.5	2.2	2.6	2.2	2.7	2.3	2.8	2.3	2.9	2.3	3.1	2.2
	43.0	2.4	2.1	2.4	2.2	2.6	2.1	2.6	2.3	2.7	2.3	2.8	2.2	3.0	2.2
	46.0	1.8	1.8	1.9	1.9	2.0	1.9	2.1	2.1	2.2	2.1	2.3	2.1	2.5	2.0
32 (3.6)	20.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.6	2.7
	22.5	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.6	2.7
	25.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.2	2.7	4.5	2.7
	27.5	3.4	2.6	3.5	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.6
	32.5	3.3	2.5	3.4	2.6	3.6	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.7	2.6	3.9	2.6	4.1	2.6
	37.5	3.2	2.4	3.3	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.6	4.0	2.5
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.7	2.5	3.9	2.5
	43.0	3.0	2.4	3.1	2.4	3.3	2.4	3.4	2.6	3.5	2.5	3.6	2.5	3.8	2.5
	46.0	2.3	2.1	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.3	2.9	2.2	3.2	2.2
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	25.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.6	3.3
	27.5	4.3	3.1	4.4	3.2	4.6	3.2	4.8	3.4	4.9	3.3	5.2	3.3	5.5	3.2
	30.0	4.2	3.1	4.3	3.2	4.6	3.1	4.7	3.3	4.8	3.3	5.1	3.2	5.4	3.2
	32.5	4.1	3.1	4.2	3.1	4.5	3.1	4.6	3.3	4.7	3.3	5.0	3.2	5.3	3.2
	35.0	4.0	3.0	4.1	3.1	4.4	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.2	3.1
	37.5	4.0	3.0	4.1	3.1	4.3	3.0	4.4	3.2	4.5	3.2	4.8	3.1	5.0	3.1
	40.0	3.9	2.9	4.0	3.0	4.2	3.0	4.3	3.2	4.4	3.1	4.7	3.1	4.9	3.0
	43.0	3.8	2.9	3.9	3.0	4.1	2.9	4.2	3.1	4.3	3.1	4.5	3.0	4.8	3.0
	46.0	2.9	2.5	3.0	2.6	3.3	2.6	3.4	2.8	3.5	2.8	3.7	2.7	4.0	2.7

kcal/h=kW x 860 , BTU/h = kW x 3,412

3-4. Cooling capacity with PUHY-P350-400YRJC-A

PMFY-P-VBM-EC

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp. 21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.4	1.9	2.5	2.0	2.5	2.0	2.7	2.0	2.9	2.0
	22.5	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.5	2.0	2.6	2.0	2.8	2.0
	25.0	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.4	2.0	2.6	2.0	2.8	1.9
	27.5	2.1	1.8	2.1	1.9	2.3	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.7	1.9
	30.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.6	1.9
	32.5	2.0	1.8	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.9
	35.0	2.0	1.8	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.5	1.9
	40.0	1.9	1.7	1.9	1.8	2.0	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.8
	43.0	1.9	1.7	1.9	1.7	2.0	1.7	2.0	1.9	2.1	1.9	2.2	1.8	2.4	1.8
	46.0	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.7
25 (2.8)	20.0	2.7	2.2	2.8	2.3	3.0	2.3	3.1	2.5	3.2	2.5	3.4	2.4	3.6	2.4
	22.5	2.7	2.2	2.8	2.3	3.0	2.3	3.1	2.5	3.2	2.5	3.4	2.4	3.6	2.4
	25.0	2.7	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	27.5	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.2	2.4	3.4	2.3
	30.0	2.6	2.2	2.6	2.3	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.4	3.4	2.3
	32.5	2.5	2.2	2.6	2.2	2.8	2.2	2.8	2.4	2.9	2.4	3.1	2.3	3.3	2.3
	35.0	2.5	2.1	2.5	2.2	2.7	2.2	2.8	2.4	2.9	2.3	3.0	2.3	3.2	2.3
	37.5	2.5	2.1	2.5	2.2	2.6	2.2	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.3
	40.0	2.4	2.1	2.4	2.2	2.6	2.1	2.7	2.3	2.8	2.3	2.9	2.3	3.1	2.2
	43.0	2.4	2.1	2.4	2.1	2.5	2.1	2.6	2.3	2.7	2.3	2.8	2.2	3.0	2.2
	46.0	1.8	1.8	1.8	1.8	2.0	1.9	2.1	2.1	2.2	2.1	2.3	2.1	2.5	2.0
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.8	4.2	2.8	4.4	2.8	4.7	2.8
	22.5	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.8	4.1	2.8	4.3	2.8	4.6	2.7
	25.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.2	2.7	4.5	2.7
	27.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.7
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.6
	32.5	3.3	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.7	2.6	3.9	2.6	4.2	2.6
	37.5	3.2	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.6	4.1	2.5
	40.0	3.1	2.4	3.1	2.5	3.3	2.4	3.4	2.6	3.5	2.6	3.8	2.5	4.0	2.5
	43.0	3.0	2.4	3.0	2.4	3.2	2.4	3.3	2.5	3.4	2.5	3.7	2.5	3.9	2.5
	46.0	2.4	2.1	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.2
40 (4.5)	20.0	4.4	3.2	4.5	3.3	4.9	3.3	5.0	3.5	5.2	3.5	5.5	3.4	5.8	3.4
	22.5	4.4	3.2	4.5	3.3	4.8	3.3	4.9	3.4	5.1	3.4	5.4	3.4	5.7	3.3
	25.0	4.3	3.2	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.6	3.3
	27.5	4.2	3.1	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.1	4.2	3.2	4.5	3.1	4.7	3.3	4.8	3.3	5.1	3.3	5.4	3.2
	32.5	4.1	3.0	4.2	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.0	3.2	5.3	3.2
	35.0	4.0	3.0	4.1	3.1	4.3	3.0	4.5	3.2	4.6	3.2	4.9	3.2	5.2	3.1
	37.5	3.9	3.0	4.0	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.8	3.1	5.1	3.1
	40.0	3.9	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.4	3.1	4.7	3.1	5.0	3.0
	43.0	3.8	2.9	3.8	2.9	4.0	2.9	4.2	3.1	4.3	3.1	4.6	3.0	4.8	3.0
	46.0	2.9	2.5	3.0	2.6	3.2	2.6	3.3	2.8	3.5	2.8	3.7	2.7	4.0	2.7

kcal/h=kW x 860 , BTU/h = kW x 3,412

3-5. Cooling capacity with PUHY-P450YRJC-A

PMFY-P-VBM-EC

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.1	1.9	2.3	1.9	2.4	2.0	2.4	2.0	2.6	2.0	2.8	1.9
	22.5	2.1	1.8	2.1	1.9	2.3	1.8	2.3	2.0	2.4	2.0	2.6	2.0	2.7	1.9
	25.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.7	1.9
	27.5	2.0	1.8	2.1	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.7	1.9
	30.0	2.0	1.8	2.0	1.8	2.2	1.8	2.3	2.0	2.3	2.0	2.5	1.9	2.7	1.9
	32.5	2.0	1.8	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.9
	40.0	1.9	1.7	1.9	1.8	2.1	1.8	2.2	1.9	2.2	1.9	2.4	1.9	2.6	1.9
	43.0	1.9	1.7	1.9	1.8	2.1	1.8	2.1	1.9	2.2	1.9	2.4	1.9	2.5	1.9
	46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.7	2.1	1.7
25 (2.8)	20.0	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	22.5	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	25.0	2.6	2.2	2.7	2.3	2.9	2.3	2.9	2.4	3.0	2.4	3.2	2.4	3.5	2.4
	27.5	2.6	2.2	2.6	2.3	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.4	3.4	2.3
	30.0	2.5	2.2	2.6	2.2	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.4	3.4	2.3
	32.5	2.5	2.2	2.6	2.2	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.3	3.4	2.3
	35.0	2.5	2.1	2.5	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.1	2.3	3.3	2.3
	37.5	2.5	2.1	2.5	2.2	2.7	2.2	2.8	2.4	2.9	2.3	3.1	2.3	3.3	2.3
	40.0	2.4	2.1	2.5	2.2	2.7	2.2	2.8	2.3	2.9	2.3	3.1	2.3	3.3	2.3
	43.0	2.4	2.1	2.4	2.2	2.6	2.2	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.3
	46.0	1.9	1.9	1.9	1.9	2.1	1.9	2.2	2.1	2.3	2.1	2.5	2.1	2.7	2.1
32 (3.6)	20.0	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.5	2.7
	22.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.8	4.0	2.7	4.2	2.7	4.5	2.7
	25.0	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.3	2.6	3.6	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.4	2.6
	32.5	3.2	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.8	2.7	4.0	2.6	4.3	2.6
	37.5	3.2	2.4	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.6	4.0	2.6	4.2	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.6	4.2	2.6
	43.0	3.1	2.4	3.1	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.9	2.6	4.2	2.6
	46.0	2.4	2.1	2.4	2.1	2.7	2.2	2.8	2.3	2.9	2.3	3.2	2.3	3.5	2.3
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.8	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	22.5	4.2	3.1	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.3	3.3	5.6	3.3
	25.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.3	4.9	3.3	5.2	3.3	5.6	3.3
	27.5	4.1	3.1	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.6	3.3	4.8	3.3	5.1	3.3	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.1	3.2	5.4	3.2
	35.0	4.0	3.0	4.1	3.1	4.4	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.2
	37.5	4.0	3.0	4.0	3.0	4.3	3.0	4.5	3.2	4.6	3.2	5.0	3.2	5.3	3.2
	40.0	3.9	3.0	4.0	3.0	4.3	3.0	4.4	3.2	4.6	3.2	4.9	3.2	5.3	3.2
	43.0	3.9	2.9	3.9	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.9	3.2	5.2	3.1
	46.0	3.0	2.5	3.1	2.6	3.4	2.6	3.5	2.8	3.7	2.8	4.0	2.8	4.4	2.8

kcal/h=kW x 860 , BTU/h = kW x 3,412

4. Cooling [Ceiling cassette (4-way flow type)]

4-1. Cooling capacity with PUMY-P100-140YHMC-C/VHMC-S

PLFY-P-VBM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.4	3.1	3.6	3.2	3.7	3.2	3.9	3.5	4.0	3.4	4.2	3.4	4.4	3.3
	22.5	3.3	3.1	3.5	3.2	3.7	3.2	3.8	3.4	4.0	3.4	4.2	3.4	4.4	3.3
	25.0	3.3	3.1	3.5	3.2	3.7	3.2	3.8	3.4	3.9	3.4	4.1	3.4	4.3	3.3
	27.5	3.3	3.0	3.4	3.2	3.6	3.2	3.7	3.4	3.9	3.4	4.1	3.3	4.3	3.3
	30.0	3.2	3.0	3.4	3.2	3.6	3.1	3.7	3.4	3.8	3.4	4.1	3.3	4.2	3.3
	32.5	3.2	3.0	3.3	3.2	3.6	3.1	3.7	3.4	3.8	3.3	4.0	3.3	4.2	3.3
	35.0	3.1	3.0	3.3	3.1	3.5	3.1	3.6	3.3	3.7	3.3	4.0	3.3	4.2	3.2
	37.5	3.1	3.0	3.2	3.1	3.5	3.1	3.6	3.3	3.7	3.3	3.9	3.3	4.1	3.2
	40.0	3.0	2.9	3.2	3.1	3.4	3.1	3.5	3.3	3.6	3.3	3.9	3.3	4.1	3.2
	43.0	2.9	2.9	3.1	3.1	3.4	3.1	3.4	3.3	3.5	3.3	3.8	3.2	4.0	3.2
	46.0	2.9	2.9	3.0	3.0	3.3	3.0	3.4	3.3	3.5	3.2	3.7	3.2	3.9	3.2
40 (4.5)	20.0	4.2	3.7	4.4	3.8	4.7	3.8	4.8	4.1	5.0	4.0	5.3	4.0	5.5	3.9
	22.5	4.2	3.6	4.4	3.8	4.6	3.8	4.8	4.0	4.9	4.0	5.2	4.0	5.5	3.9
	25.0	4.1	3.6	4.3	3.8	4.6	3.7	4.7	4.0	4.9	4.0	5.2	3.9	5.4	3.9
	27.5	4.1	3.6	4.3	3.8	4.5	3.7	4.7	4.0	4.8	4.0	5.1	3.9	5.4	3.9
	30.0	4.0	3.6	4.2	3.7	4.5	3.7	4.6	4.0	4.8	4.0	5.1	3.9	5.3	3.8
	32.5	4.0	3.5	4.2	3.7	4.4	3.7	4.6	4.0	4.7	3.9	5.0	3.9	5.3	3.8
	35.0	3.9	3.5	4.1	3.7	4.4	3.7	4.5	3.9	4.6	3.9	4.9	3.9	5.2	3.8
	37.5	3.8	3.5	4.0	3.7	4.3	3.6	4.5	3.9	4.6	3.9	4.9	3.8	5.1	3.8
	40.0	3.8	3.4	4.0	3.6	4.3	3.6	4.4	3.9	4.5	3.8	4.8	3.8	5.1	3.8
	43.0	3.7	3.4	3.9	3.6	4.2	3.6	4.3	3.8	4.4	3.8	4.8	3.8	5.0	3.7
	46.0	3.6	3.4	3.8	3.5	4.1	3.6	4.2	3.8	4.3	3.8	4.7	3.8	4.9	3.7
50 (5.6)	20.0	5.3	4.2	5.5	4.4	5.8	4.3	6.0	4.6	6.2	4.6	6.6	4.5	6.9	4.4
	22.5	5.2	4.2	5.5	4.3	5.8	4.3	6.0	4.6	6.1	4.5	6.5	4.5	6.8	4.4
	25.0	5.2	4.1	5.4	4.3	5.7	4.3	5.9	4.5	6.1	4.5	6.4	4.5	6.7	4.4
	27.5	5.1	4.1	5.3	4.3	5.7	4.2	5.8	4.5	6.0	4.5	6.4	4.4	6.7	4.3
	30.0	5.0	4.1	5.3	4.3	5.6	4.2	5.8	4.5	5.9	4.5	6.3	4.4	6.6	4.3
	32.5	4.9	4.0	5.2	4.2	5.5	4.2	5.7	4.5	5.9	4.4	6.2	4.4	6.5	4.3
	35.0	4.9	4.0	5.1	4.2	5.5	4.2	5.6	4.4	5.8	4.4	6.2	4.4	6.5	4.3
	37.5	4.8	4.0	5.0	4.1	5.4	4.1	5.5	4.4	5.7	4.4	6.1	4.3	6.4	4.2
	40.0	4.7	3.9	4.9	4.1	5.3	4.1	5.5	4.4	5.6	4.3	6.0	4.3	6.3	4.2
	43.0	4.6	3.9	4.8	4.1	5.2	4.1	5.4	4.3	5.5	4.3	5.9	4.3	6.2	4.2
	46.0	4.4	3.8	4.7	4.0	5.2	4.0	5.3	4.3	5.4	4.2	5.8	4.2	6.1	4.2
63 (7.1)	20.0	6.7	4.9	7.0	5.1	7.4	5.1	7.6	5.4	7.9	5.3	8.3	5.3	8.7	5.1
	22.5	6.6	4.9	6.9	5.1	7.3	5.0	7.6	5.3	7.8	5.3	8.2	5.2	8.6	5.1
	25.0	6.5	4.9	6.9	5.1	7.2	5.0	7.5	5.3	7.7	5.3	8.2	5.2	8.5	5.1
	27.5	6.5	4.8	6.8	5.0	7.2	5.0	7.4	5.3	7.6	5.2	8.1	5.2	8.5	5.0
	30.0	6.4	4.8	6.7	5.0	7.1	4.9	7.3	5.2	7.5	5.2	8.0	5.1	8.4	5.0
	32.5	6.3	4.7	6.6	4.9	7.0	4.9	7.2	5.2	7.4	5.1	7.9	5.1	8.3	5.0
	35.0	6.2	4.7	6.5	4.9	6.9	4.9	7.1	5.1	7.3	5.1	7.8	5.1	8.2	4.9
	37.5	6.1	4.6	6.4	4.8	6.8	4.8	7.0	5.1	7.2	5.1	7.7	5.0	8.1	4.9
	40.0	5.9	4.6	6.3	4.8	6.8	4.8	6.9	5.1	7.1	5.0	7.6	5.0	8.0	4.9
	43.0	5.8	4.5	6.1	4.7	6.6	4.7	6.8	5.0	6.9	5.0	7.5	4.9	7.9	4.8
	46.0	5.6	4.4	6.0	4.7	6.5	4.7	6.7	4.9	6.8	4.9	7.4	4.9	7.8	4.8
80 (9.0)	20.0	8.5	6.1	8.9	6.3	9.4	6.2	9.7	6.6	10.0	6.5	10.5	6.4	11.0	6.3
	22.5	8.4	6.0	8.8	6.3	9.3	6.2	9.6	6.5	9.9	6.5	10.4	6.4	10.9	6.2
	25.0	8.3	6.0	8.7	6.2	9.2	6.1	9.5	6.5	9.8	6.4	10.3	6.3	10.8	6.2
	27.5	8.2	5.9	8.6	6.2	9.1	6.1	9.4	6.4	9.7	6.4	10.2	6.3	10.7	6.2
	30.0	8.1	5.9	8.5	6.1	9.0	6.0	9.3	6.4	9.5	6.3	10.1	6.3	10.6	6.1
	32.5	7.9	5.8	8.4	6.0	8.9	6.0	9.1	6.3	9.4	6.3	10.0	6.2	10.5	6.1
	35.0	7.8	5.7	8.2	6.0	8.8	5.9	9.0	6.3	9.3	6.2	9.9	6.2	10.4	6.0
	37.5	7.7	5.7	8.1	5.9	8.7	5.9	8.9	6.2	9.1	6.2	9.8	6.1	10.3	6.0
	40.0	7.5	5.6	8.0	5.8	8.6	5.8	8.8	6.2	9.0	6.1	9.7	6.1	10.1	5.9
	43.0	7.3	5.5	7.8	5.8	8.4	5.8	8.6	6.1	8.8	6.0	9.5	6.0	10.0	5.9
	46.0	7.1	5.4	7.6	5.7	8.3	5.7	8.5	6.0	8.6	5.9	9.4	5.9	9.9	5.8
100 (11.2)	20.0	10.5	7.5	11.1	7.8	11.7	7.7	12.0	8.1	12.4	8.0	13.1	7.9	13.7	7.7
	22.5	10.4	7.4	10.9	7.7	11.6	7.6	11.9	8.0	12.3	8.0	13.0	7.9	13.6	7.7
	25.0	10.3	7.4	10.8	7.7	11.4	7.6	11.8	8.0	12.2	7.9	12.9	7.8	13.5	7.6
	27.5	10.2	7.3	10.7	7.6	11.3	7.5	11.7	7.9	12.0	7.9	12.7	7.8	13.4	7.6
	30.0	10.0	7.2	10.5	7.5	11.2	7.5	11.5	7.8	11.9	7.8	12.6	7.7	13.2	7.5
	32.5	9.9	7.2	10.4	7.5	11.1	7.4	11.4	7.8	11.7	7.7	12.5	7.6	13.1	7.5
	35.0	9.7	7.1	10.2	7.4	10.9	7.3	11.2	7.7	11.5	7.7	12.3	7.6	12.9	7.4
	37.5	9.5	7.0	10.1	7.3	10.8	7.3	11.1	7.6	11.4	7.6	12.2	7.5	12.8	7.4
	40.0	9.4	6.9	9.9	7.2	10.7	7.2	10.9	7.6	11.2	7.5	12.0	7.5	12.6	7.3
	43.0	9.1	6.8	9.7	7.1	10.5	7.1	10.7	7.5	11.0	7.4	11.8	7.4	12.4	7.2
	46.0	8.9	6.7	9.5	7.0	10.3	7.0	10.5	7.4	10.7	7.3	11.6	7.3	12.3	7.2
125 (14.0)	20.0	13.2	9.1	13.8	9.5	14.6	9.4	15.1	9.8	15.5	9.8	16.4	9.6	17.2	9.4
	22.5	13.0	9.1	13.7	9.4	14.4	9.3	14.9	9.8	15.4	9.7	16.2	9.6	17.0	9.3
	25.0	12.9	9.0	13.5	9.3	14.3	9.2	14.7	9.7	15.2	9.6	16.1	9.5	16.9	9.3
	27.5	12.7	8.9	13.4	9.3	14.1	9.1	14.6	9.6	15.0	9.5	15.9	9.4	16.7	9.2
	30.0	12.5	8.8	13.2	9.2	14.0	9.1	14.4	9.5	14.8	9.5	15.8	9.3	16.5	9.1
	32.5	12.4	8.7	13.0	9.1	13.8	9.0	14.2	9.4	14.6	9.4	15.6	9.3	16.3	9.1
	35.0	12.2	8.6	12.8	9.0	13.7	8.9	14.0	9.3	14.4	9.3	15.4	9.2	16.2	9.0
	37.5	11.9	8.5	12.6	8.9	13.5	8.8	13.8	9.3	14.2	9.2	15.2	9.1	16.0	8.9
	40.0	11.7	8.4	12.4	8.7	13.3	8.7	13.7	9.2	14.0	9.1	15.0	9.0	15.8	8.8
	43.0	11.4	8.2	12.1	8.6	13.1	8.6	13.4	9.1	13.7	9.0	14.8	8.9	15.6	8.8
	46.0	11.1	8.1	11.8	8.5	12.9	8.5	13.2	8.9	13.4	8.8	14.6	8.8	15.3	8.7

kcal/h=kW x 860 , BTU/h = kW x 3,412

CT

4-2. Cooling capacity with PUMY-P200-250YKMC-C

PLFY-P-VBM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.4	3.1	3.6	3.2	3.9	3.2	4.0	3.5	4.1	3.5	4.4	3.4	4.5	3.4
	22.5	3.4	3.1	3.5	3.2	3.8	3.2	3.9	3.5	4.1	3.5	4.3	3.4	4.4	3.3
	25.0	3.3	3.1	3.5	3.2	3.7	3.2	3.9	3.5	4.0	3.5	4.3	3.4	4.4	3.3
	27.5	3.3	3.0	3.4	3.2	3.7	3.2	3.8	3.4	4.0	3.4	4.2	3.4	4.3	3.3
	30.0	3.2	3.0	3.3	3.1	3.6	3.1	3.8	3.4	3.9	3.4	4.1	3.4	4.3	3.3
	32.5	3.1	3.0	3.2	3.1	3.5	3.1	3.7	3.4	3.9	3.4	4.1	3.3	4.2	3.3
	35.0	3.0	2.9	3.2	3.1	3.5	3.1	3.6	3.3	3.8	3.4	4.0	3.3	4.1	3.2
	37.5	3.0	2.9	3.1	3.0	3.4	3.1	3.5	3.3	3.7	3.3	3.9	3.3	4.1	3.2
	40.0	2.9	2.9	3.0	3.0	3.3	3.0	3.4	3.3	3.6	3.3	3.9	3.3	4.0	3.2
	43.0	2.7	2.7	2.9	2.9	3.2	3.0	3.3	3.2	3.5	3.2	3.7	3.2	3.9	3.2
	46.0	2.6	2.6	2.7	2.7	3.0	2.9	3.2	3.2	3.3	3.2	3.6	3.2	3.8	3.1
40 (4.5)	20.0	4.3	3.7	4.5	3.8	4.8	3.8	5.0	4.1	5.1	4.1	5.4	4.0	5.6	3.9
	22.5	4.2	3.7	4.4	3.8	4.7	3.8	4.9	4.1	5.1	4.1	5.4	4.0	5.5	3.9
	25.0	4.1	3.6	4.3	3.8	4.7	3.8	4.9	4.1	5.0	4.1	5.4	4.0	5.5	3.9
	27.5	4.1	3.6	4.2	3.7	4.6	3.7	4.8	4.0	5.0	4.0	5.3	4.0	5.4	3.9
	30.0	4.0	3.6	4.1	3.7	4.5	3.7	4.7	4.0	4.9	4.0	5.2	3.9	5.4	3.8
	32.5	3.9	3.5	4.1	3.7	4.4	3.7	4.6	4.0	4.8	4.0	5.1	3.9	5.3	3.8
	35.0	3.8	3.5	4.0	3.6	4.3	3.6	4.5	3.9	4.7	3.9	5.0	3.9	5.2	3.8
	37.5	3.7	3.4	3.9	3.6	4.2	3.6	4.4	3.9	4.6	3.9	4.9	3.9	5.1	3.8
	40.0	3.6	3.4	3.7	3.5	4.1	3.5	4.3	3.8	4.5	3.8	4.8	3.8	5.0	3.7
	43.0	3.4	3.3	3.6	3.5	4.0	3.5	4.1	3.8	4.3	3.8	4.7	3.8	4.9	3.7
	46.0	3.3	3.2	3.4	3.4	3.8	3.4	4.0	3.7	4.1	3.7	4.5	3.7	4.7	3.6
50 (5.6)	20.0	5.3	4.2	5.5	4.4	6.0	4.4	6.2	4.7	6.4	4.6	6.8	4.6	7.0	4.5
	22.5	5.3	4.2	5.5	4.3	5.9	4.3	6.1	4.6	6.3	4.6	6.7	4.6	6.9	4.4
	25.0	5.2	4.1	5.4	4.3	5.8	4.3	6.0	4.6	6.3	4.6	6.7	4.5	6.8	4.4
	27.5	5.1	4.1	5.3	4.2	5.7	4.3	5.9	4.6	6.2	4.6	6.6	4.5	6.7	4.4
	30.0	5.0	4.1	5.2	4.2	5.6	4.2	5.9	4.5	6.1	4.5	6.4	4.5	6.7	4.3
	32.5	4.9	4.0	5.0	4.1	5.5	4.2	5.8	4.5	6.0	4.5	6.3	4.4	6.6	4.3
	35.0	4.7	3.9	4.9	4.1	5.4	4.1	5.6	4.4	5.9	4.4	6.2	4.4	6.4	4.3
	37.5	4.6	3.9	4.8	4.0	5.3	4.1	5.5	4.4	5.7	4.4	6.1	4.3	6.3	4.2
	40.0	4.5	3.8	4.6	4.0	5.1	4.0	5.3	4.3	5.5	4.3	6.0	4.3	6.2	4.2
	43.0	4.3	3.7	4.5	3.9	4.9	3.9	5.2	4.2	5.4	4.2	5.8	4.2	6.0	4.1
	46.0	4.1	3.6	4.3	3.8	4.7	3.8	4.9	4.2	5.1	4.1	5.7	4.2	5.9	4.1
63 (7.1)	20.0	6.7	5.0	7.0	5.2	7.6	5.2	7.9	5.5	8.1	5.4	8.6	5.4	8.9	5.2
	22.5	6.7	4.9	7.0	5.1	7.5	5.1	7.7	5.4	8.0	5.4	8.5	5.3	8.7	5.1
	25.0	6.5	4.9	6.8	5.0	7.4	5.1	7.7	5.4	8.0	5.4	8.4	5.3	8.7	5.1
	27.5	6.5	4.8	6.7	5.0	7.2	5.0	7.5	5.3	7.9	5.3	8.3	5.3	8.5	5.1
	30.0	6.3	4.8	6.5	4.9	7.1	4.9	7.5	5.3	7.7	5.3	8.2	5.2	8.4	5.0
	32.5	6.2	4.7	6.4	4.8	7.0	4.9	7.3	5.2	7.6	5.2	8.0	5.1	8.3	5.0
	35.0	6.0	4.6	6.2	4.8	6.8	4.8	7.1	5.1	7.5	5.2	7.9	5.1	8.2	4.9
	37.5	5.8	4.5	6.1	4.7	6.7	4.7	7.0	5.1	7.2	5.1	7.7	5.0	8.0	4.9
	40.0	5.7	4.5	5.9	4.6	6.5	4.7	6.7	5.0	7.0	5.0	7.6	5.0	7.9	4.8
	43.0	5.4	4.3	5.7	4.5	6.2	4.6	6.5	4.9	6.8	4.9	7.4	4.9	7.7	4.8
	46.0	5.2	4.2	5.4	4.4	6.0	4.4	6.2	4.8	6.5	4.8	7.2	4.8	7.5	4.7
80 (9.0)	20.0	8.6	6.1	8.9	6.3	9.6	6.3	10.0	6.7	10.3	6.7	10.9	6.6	11.3	6.4
	22.5	8.5	6.1	8.8	6.3	9.5	6.3	9.8	6.6	10.2	6.6	10.8	6.5	11.1	6.3
	25.0	8.3	6.0	8.6	6.2	9.4	6.2	9.7	6.6	10.1	6.6	10.7	6.5	11.0	6.2
	27.5	8.2	5.9	8.5	6.1	9.2	6.1	9.5	6.5	10.0	6.5	10.5	6.4	10.8	6.2
	30.0	8.0	5.8	8.3	6.0	9.0	6.0	9.5	6.5	9.8	6.5	10.4	6.3	10.7	6.1
	32.5	7.8	5.7	8.1	5.9	8.8	6.0	9.3	6.4	9.6	6.4	10.2	6.3	10.5	6.1
	35.0	7.6	5.6	7.9	5.8	8.6	5.9	9.0	6.3	9.5	6.3	10.0	6.2	10.4	6.0
	37.5	7.4	5.5	7.7	5.7	8.5	5.8	8.8	6.2	9.2	6.2	9.8	6.1	10.2	5.9
	40.0	7.2	5.4	7.5	5.6	8.2	5.7	8.6	6.1	8.9	6.1	9.6	6.1	10.0	5.9
	43.0	6.8	5.3	7.2	5.5	7.9	5.6	8.3	5.9	8.6	6.0	9.4	5.9	9.7	5.8
	46.0	6.6	5.1	6.8	5.3	7.6	5.4	7.9	5.8	8.2	5.8	9.1	5.8	9.5	5.7
100 (11.2)	20.0	10.6	7.5	11.1	7.8	12.0	7.8	12.4	8.3	12.8	8.2	13.6	8.1	14.0	7.8
	22.5	10.5	7.5	11.0	7.7	11.8	7.7	12.2	8.2	12.7	8.1	13.4	8.0	13.8	7.7
	25.0	10.3	7.4	10.8	7.6	11.6	7.7	12.1	8.1	12.5	8.1	13.3	8.0	13.7	7.7
	27.5	10.2	7.3	10.5	7.5	11.4	7.6	11.9	8.0	12.4	8.0	13.1	7.9	13.4	7.6
	30.0	10.0	7.2	10.3	7.4	11.2	7.5	11.8	8.0	12.2	7.9	12.9	7.8	13.3	7.6
	32.5	9.7	7.1	10.1	7.3	11.0	7.4	11.5	7.9	12.0	7.9	12.7	7.7	13.1	7.5
	35.0	9.4	6.9	9.9	7.2	10.8	7.2	11.2	7.7	11.8	7.8	12.4	7.6	12.9	7.4
	37.5	9.2	6.8	9.6	7.1	10.5	7.1	11.0	7.6	11.4	7.6	12.2	7.5	12.7	7.3
	40.0	9.0	6.7	9.3	6.9	10.2	7.0	10.6	7.4	11.1	7.5	12.0	7.5	12.4	7.2
	43.0	8.5	6.5	9.0	6.7	9.9	6.8	10.3	7.3	10.8	7.3	11.6	7.3	12.1	7.1
	46.0	8.2	6.3	8.5	6.5	9.4	6.6	9.9	7.1	10.2	7.1	11.3	7.2	11.8	7.0
125 (14.0)	20.0	13.3	9.2	13.9	9.5	15.0	9.6	15.5	10.1	16.0	10.0	16.9	9.9	17.5	9.5
	22.5	13.2	9.1	13.7	9.4	14.7	9.4	15.3	9.9	15.8	9.9	16.8	9.8	17.2	9.4
	25.0	12.9	9.0	13.4	9.3	14.6	9.4	15.1	9.9	15.7	9.9	16.7	9.7	17.1	9.3
	27.5	12.7	8.9	13.2	9.1	14.3	9.2	14.8	9.7	15.5	9.8	16.4	9.6	16.8	9.2
	30.0	12.5	8.8	12.9	9.0	14.0	9.1	14.7	9.7	15.3	9.7	16.1	9.5	16.7	9.2
	32.5	12.2	8.6	12.6	8.9	13.7	8.9	14.4	9.5	15.0	9.5	15.8	9.4	16.4	9.1
	35.0	11.8	8.4	12.3	8.7	13.4	8.8	14.0	9.3	14.7	9.4	15.5	9.3	16.1	9.0
	37.5	11.5	8.3	12.0	8.6	13.2	8.7	13.7	9.2	14.3	9.2	15.3	9.1	15.8	8.9
	40.0	11.2	8.1	11.6	8.4	12.7	8.5	13.3	9.0	13.9	9.0	15.0	9.0	15.5	8.7
	43.0	10.6	7.8	11.2	8.2	12.3	8.3	12.9	8.8	13.4	8.8	14.6	8.8	15.1	8.6
	46.0	10.2	7.6	10.6	7.9	11.8	8.0	12.3	8.6	12.7	8.5	14.1	8.7	14.7	8.4

kcal/h=kW x 860 , BTU/h = kW x 3,412

4-3. Cooling capacity with PUHY-P300YRJC-A

PLFY-P-VBM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp. 21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.4	3.1	3.5	3.2	3.8	3.2	3.9	3.5	4.0	3.4	4.3	3.4	4.6	3.4
	22.5	3.4	3.1	3.5	3.2	3.8	3.2	3.9	3.5	4.0	3.4	4.3	3.4	4.6	3.4
	25.0	3.4	3.1	3.5	3.2	3.8	3.2	3.9	3.5	4.0	3.4	4.2	3.4	4.5	3.3
	27.5	3.4	3.1	3.5	3.2	3.7	3.2	3.8	3.4	3.9	3.4	4.1	3.4	4.4	3.3
	30.0	3.3	3.1	3.4	3.2	3.6	3.2	3.7	3.4	3.8	3.4	4.1	3.3	4.3	3.3
	32.5	3.3	3.1	3.4	3.2	3.6	3.1	3.7	3.4	3.8	3.4	4.0	3.3	4.2	3.3
	35.0	3.2	3.0	3.3	3.1	3.5	3.1	3.6	3.3	3.7	3.3	3.9	3.3	4.1	3.2
	37.5	3.2	3.0	3.3	3.1	3.4	3.1	3.5	3.3	3.6	3.3	3.8	3.2	4.0	3.2
	40.0	3.1	3.0	3.2	3.1	3.4	3.1	3.5	3.3	3.6	3.3	3.7	3.2	3.9	3.2
	43.0	3.0	2.9	3.1	3.1	3.3	3.0	3.4	3.3	3.5	3.2	3.6	3.2	3.8	3.1
	46.0	2.3	2.3	2.4	2.4	2.6	2.6	2.7	2.7	2.8	2.8	2.9	2.9	3.2	2.9
40 (4.5)	20.0	4.3	3.7	4.4	3.8	4.7	3.8	4.9	4.1	5.0	4.0	5.3	4.0	5.7	4.0
	22.5	4.3	3.7	4.4	3.8	4.7	3.8	4.9	4.1	5.0	4.0	5.3	4.0	5.7	4.0
	25.0	4.3	3.7	4.4	3.8	4.7	3.8	4.9	4.1	5.0	4.0	5.3	4.0	5.6	3.9
	27.5	4.3	3.7	4.4	3.8	4.6	3.8	4.8	4.0	4.9	4.0	5.2	3.9	5.5	3.9
	30.0	4.2	3.6	4.3	3.8	4.6	3.7	4.7	4.0	4.8	4.0	5.1	3.9	5.4	3.9
	32.5	4.1	3.6	4.2	3.7	4.5	3.7	4.6	4.0	4.7	3.9	5.0	3.9	5.3	3.8
	35.0	4.0	3.6	4.1	3.7	4.4	3.7	4.5	3.9	4.6	3.9	4.9	3.8	5.2	3.8
	37.5	4.0	3.5	4.1	3.7	4.3	3.6	4.4	3.9	4.5	3.9	4.8	3.8	5.0	3.7
	40.0	3.9	3.5	4.0	3.6	4.2	3.6	4.3	3.9	4.4	3.8	4.7	3.8	4.9	3.7
	43.0	3.8	3.5	3.9	3.6	4.1	3.5	4.2	3.8	4.3	3.8	4.5	3.7	4.8	3.7
	46.0	2.9	2.9	3.0	3.0	3.3	3.2	3.4	3.4	3.5	3.5	3.7	3.4	4.0	3.4
50 (5.6)	20.0	5.3	4.2	5.5	4.4	5.9	4.3	6.1	4.6	6.2	4.6	6.6	4.5	7.1	4.5
	22.5	5.3	4.2	5.5	4.4	5.9	4.3	6.1	4.6	6.2	4.6	6.6	4.5	7.1	4.5
	25.0	5.3	4.2	5.5	4.4	5.9	4.3	6.0	4.6	6.2	4.6	6.6	4.5	7.0	4.4
	27.5	5.3	4.2	5.5	4.3	5.8	4.3	5.9	4.6	6.1	4.5	6.4	4.5	6.8	4.4
	30.0	5.2	4.2	5.4	4.3	5.7	4.2	5.8	4.5	6.0	4.5	6.3	4.4	6.7	4.3
	32.5	5.1	4.1	5.3	4.2	5.6	4.2	5.7	4.5	5.9	4.4	6.2	4.4	6.6	4.3
	35.0	5.0	4.1	5.2	4.2	5.5	4.2	5.6	4.4	5.8	4.4	6.1	4.3	6.4	4.3
	37.5	4.9	4.0	5.1	4.2	5.4	4.1	5.5	4.4	5.6	4.3	5.9	4.3	6.3	4.2
	40.0	4.8	4.0	5.0	4.1	5.3	4.1	5.4	4.3	5.5	4.3	5.8	4.2	6.1	4.2
	43.0	4.7	3.9	4.8	4.1	5.1	4.0	5.3	4.3	5.4	4.3	5.6	4.2	6.0	4.1
	46.0	3.6	3.4	3.8	3.6	4.1	3.6	4.2	3.9	4.3	3.9	4.6	3.8	4.9	3.8
63 (7.1)	20.0	6.7	5.0	7.0	5.1	7.5	5.1	7.7	5.4	7.9	5.4	8.4	5.3	9.0	5.2
	22.5	6.7	5.0	7.0	5.1	7.5	5.1	7.7	5.4	7.9	5.4	8.4	5.3	9.0	5.2
	25.0	6.7	5.0	7.0	5.1	7.5	5.1	7.7	5.4	7.9	5.3	8.3	5.3	8.8	5.2
	27.5	6.7	5.0	6.9	5.1	7.3	5.0	7.5	5.3	7.7	5.3	8.1	5.2	8.7	5.1
	30.0	6.6	4.9	6.8	5.0	7.2	5.0	7.4	5.3	7.6	5.2	8.0	5.1	8.5	5.1
	32.5	6.5	4.8	6.7	5.0	7.1	4.9	7.2	5.2	7.4	5.2	7.8	5.1	8.3	5.0
	35.0	6.4	4.8	6.5	4.9	6.9	4.9	7.1	5.1	7.3	5.1	7.7	5.0	8.1	4.9
	37.5	6.2	4.7	6.4	4.9	6.8	4.8	7.0	5.1	7.2	5.0	7.5	4.9	8.0	4.9
	40.0	6.1	4.7	6.3	4.8	6.7	4.7	6.8	5.0	7.0	5.0	7.4	4.9	7.8	4.8
	43.0	6.0	4.6	6.1	4.7	6.5	4.7	6.7	5.0	6.9	4.9	7.2	4.8	7.6	4.7
	46.0	4.6	4.0	4.8	4.1	5.2	4.1	5.3	4.4	5.5	4.4	5.8	4.3	6.2	4.3
80 (9.0)	20.0	8.6	6.1	8.9	6.3	9.5	6.3	9.7	6.6	10.0	6.6	10.6	6.5	11.4	6.4
	22.5	8.6	6.1	8.9	6.3	9.5	6.3	9.7	6.6	10.0	6.6	10.6	6.5	11.4	6.4
	25.0	8.6	6.1	8.9	6.3	9.5	6.3	9.7	6.6	10.0	6.5	10.5	6.4	11.2	6.3
	27.5	8.5	6.1	8.8	6.3	9.3	6.2	9.5	6.5	9.8	6.4	10.3	6.3	11.0	6.2
	30.0	8.4	6.0	8.6	6.2	9.1	6.1	9.4	6.4	9.6	6.4	10.1	6.3	10.8	6.2
	32.5	8.2	5.9	8.5	6.1	8.9	6.0	9.2	6.3	9.4	6.3	9.9	6.2	10.5	6.1
	35.0	8.1	5.9	8.3	6.0	8.8	5.9	9.0	6.3	9.2	6.2	9.7	6.1	10.3	6.0
	37.5	7.9	5.8	8.1	5.9	8.6	5.9	8.8	6.2	9.1	6.1	9.5	6.0	10.1	5.9
	40.0	7.7	5.7	8.0	5.9	8.4	5.8	8.7	6.1	8.9	6.1	9.3	5.9	9.9	5.8
	43.0	7.6	5.6	7.8	5.8	8.2	5.7	8.5	6.0	8.7	6.0	9.1	5.8	9.6	5.7
	46.0	5.9	4.8	6.1	5.0	6.5	5.0	6.8	5.3	7.0	5.3	7.4	5.2	7.9	5.2
100 (11.2)	20.0	10.6	7.5	11.0	7.8	11.8	7.7	12.1	8.1	12.5	8.1	13.2	8.0	14.2	7.9
	22.5	10.6	7.5	11.0	7.8	11.8	7.7	12.1	8.1	12.5	8.1	13.2	8.0	14.2	7.9
	25.0	10.6	7.5	11.0	7.8	11.8	7.7	12.1	8.1	12.4	8.0	13.1	7.9	13.9	7.8
	27.5	10.6	7.5	10.9	7.7	11.6	7.6	11.9	8.0	12.2	7.9	12.9	7.8	13.7	7.7
	30.0	10.4	7.4	10.7	7.6	11.3	7.5	11.6	7.9	12.0	7.8	12.6	7.7	13.4	7.6
	32.5	10.2	7.3	10.5	7.5	11.1	7.4	11.4	7.8	11.7	7.7	12.4	7.6	13.1	7.5
	35.0	10.0	7.2	10.3	7.4	10.9	7.3	11.2	7.7	11.5	7.6	12.1	7.5	12.8	7.4
	37.5	9.8	7.1	10.1	7.3	10.7	7.2	11.0	7.6	11.3	7.5	11.9	7.4	12.6	7.3
	40.0	9.6	7.0	9.9	7.2	10.5	7.1	10.8	7.5	11.1	7.5	11.6	7.3	12.3	7.2
	43.0	9.4	6.9	9.7	7.1	10.2	7.0	10.5	7.4	10.8	7.3	11.3	7.2	12.0	7.1
	46.0	7.3	5.9	7.6	6.1	8.1	6.1	8.4	6.5	8.7	6.5	9.2	6.4	9.8	6.3
125 (14.0)	20.0	13.3	9.2	13.8	9.5	14.7	9.4	15.2	9.9	15.6	9.8	16.6	9.7	17.7	9.6
	22.5	13.3	9.2	13.8	9.5	14.7	9.4	15.2	9.9	15.6	9.8	16.6	9.7	17.7	9.6
	25.0	13.3	9.2	13.8	9.5	14.7	9.4	15.1	9.8	15.5	9.8	16.4	9.6	17.4	9.5
	27.5	13.3	9.2	13.6	9.4	14.4	9.3	14.8	9.7	15.2	9.6	16.1	9.5	17.1	9.3
	30.0	13.0	9.1	13.4	9.3	14.2	9.2	14.6	9.6	14.9	9.5	15.8	9.3	16.7	9.2
	32.5	12.8	8.9	13.2	9.1	13.9	9.0	14.3	9.5	14.7	9.4	15.4	9.2	16.4	9.1
	35.0	12.5	8.8	12.9	9.0	13.7	8.9	14.0	9.3	14.4	9.3	15.1	9.1	16.0	8.9
	37.5	12.3	8.7	12.7	8.9	13.4	8.8	13.8	9.2	14.1	9.1	14.8	8.9	15.7	8.8
	40.0	12.1	8.6	12.4	8.8	13.1	8.7	13.5	9.1	13.8	9.0	14.5	8.8	15.4	8.7
	43.0	11.8	8.4	12.1	8.6	12.8	8.5	13.2	8.9	13.5	8.9	14.1	8.7	15.0	8.5
	46.0	9.1	7.1	9.5	7.3	10.2	7.3	10.5	7.8	10.9	7.7	11.5	7.6	12.3	7.6

kcal/h=kW x 860 , BTU/h = kW x 3,412

CT

4-4. Cooling capacity with PUHY-P350-400YRJC-A

PLFY-P-VBM-E-S

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.5	3.1	3.6	3.3	3.9	3.3	4.0	3.5	4.2	3.5	4.4	3.5	4.7	3.4
	22.5	3.5	3.1	3.6	3.3	3.8	3.2	4.0	3.5	4.1	3.5	4.3	3.4	4.6	3.4
	25.0	3.4	3.1	3.5	3.2	3.8	3.2	3.9	3.5	4.0	3.4	4.2	3.4	4.5	3.4
	27.5	3.4	3.1	3.5	3.2	3.7	3.2	3.8	3.4	3.9	3.4	4.2	3.4	4.4	3.3
	30.0	3.3	3.1	3.4	3.2	3.6	3.2	3.7	3.4	3.8	3.4	4.1	3.3	4.3	3.3
	32.5	3.3	3.0	3.3	3.1	3.5	3.1	3.7	3.4	3.8	3.4	4.0	3.3	4.2	3.3
	35.0	3.2	3.0	3.3	3.1	3.5	3.1	3.6	3.3	3.7	3.3	3.9	3.3	4.2	3.2
	37.5	3.2	3.0	3.2	3.1	3.4	3.1	3.5	3.3	3.6	3.3	3.8	3.3	4.1	3.2
	40.0	3.1	3.0	3.1	3.1	3.3	3.0	3.4	3.3	3.5	3.3	3.8	3.2	4.0	3.2
	43.0	3.0	2.9	3.0	3.0	3.2	3.0	3.3	3.3	3.4	3.2	3.7	3.2	3.9	3.2
	46.0	2.4	2.4	2.4	2.4	2.6	2.6	2.7	2.7	2.8	2.8	3.0	3.0	3.2	2.9
40 (4.5)	20.0	4.4	3.7	4.5	3.9	4.9	3.9	5.0	4.1	5.2	4.1	5.5	4.1	5.8	4.0
	22.5	4.4	3.7	4.5	3.9	4.8	3.8	4.9	4.1	5.1	4.1	5.4	4.0	5.7	4.0
	25.0	4.3	3.7	4.4	3.8	4.7	3.8	4.9	4.1	5.0	4.0	5.3	4.0	5.6	3.9
	27.5	4.2	3.7	4.3	3.8	4.6	3.7	4.8	4.0	4.9	4.0	5.2	4.0	5.5	3.9
	30.0	4.1	3.6	4.2	3.7	4.5	3.7	4.7	4.0	4.8	4.0	5.1	3.9	5.4	3.9
	32.5	4.1	3.6	4.2	3.7	4.4	3.7	4.6	4.0	4.7	3.9	5.0	3.9	5.3	3.8
	35.0	4.0	3.6	4.1	3.7	4.3	3.6	4.5	3.9	4.6	3.9	4.9	3.8	5.2	3.8
	37.5	3.9	3.5	4.0	3.6	4.2	3.6	4.4	3.9	4.5	3.9	4.8	3.8	5.1	3.8
	40.0	3.9	3.5	3.9	3.6	4.2	3.6	4.3	3.8	4.4	3.8	4.7	3.8	5.0	3.7
	43.0	3.8	3.5	3.8	3.6	4.0	3.5	4.2	3.8	4.3	3.8	4.6	3.7	4.8	3.7
	46.0	2.9	2.9	3.0	3.0	3.2	3.2	3.3	3.3	3.5	3.5	3.7	3.4	4.0	3.4
50 (5.6)	20.0	5.4	4.3	5.6	4.4	6.1	4.4	6.3	4.7	6.5	4.7	6.9	4.6	7.3	4.5
	22.5	5.4	4.3	5.6	4.4	6.0	4.4	6.2	4.7	6.3	4.6	6.7	4.6	7.1	4.5
	25.0	5.3	4.2	5.5	4.3	5.8	4.3	6.0	4.6	6.2	4.6	6.6	4.5	7.0	4.5
	27.5	5.3	4.2	5.4	4.3	5.7	4.3	5.9	4.6	6.1	4.5	6.5	4.5	6.9	4.4
	30.0	5.2	4.1	5.3	4.3	5.6	4.2	5.8	4.5	6.0	4.5	6.4	4.4	6.7	4.4
	32.5	5.1	4.1	5.2	4.2	5.5	4.2	5.7	4.5	5.9	4.4	6.2	4.4	6.6	4.3
	35.0	5.0	4.1	5.1	4.2	5.4	4.1	5.6	4.4	5.7	4.4	6.1	4.3	6.5	4.3
	37.5	4.9	4.0	5.0	4.1	5.3	4.1	5.5	4.4	5.6	4.3	6.0	4.3	6.3	4.2
	40.0	4.8	4.0	4.9	4.1	5.2	4.0	5.3	4.3	5.5	4.3	5.8	4.2	6.2	4.2
	43.0	4.7	3.9	4.7	4.0	5.0	4.0	5.2	4.3	5.4	4.2	5.7	4.2	6.0	4.1
	46.0	3.7	3.5	3.7	3.5	4.0	3.5	4.1	3.8	4.3	3.8	4.6	3.8	5.0	3.8
63 (7.1)	20.0	6.9	5.0	7.1	5.2	7.7	5.2	7.9	5.5	8.2	5.5	8.7	5.4	9.2	5.3
	22.5	6.9	5.0	7.1	5.2	7.6	5.1	7.8	5.4	8.0	5.4	8.5	5.3	9.1	5.3
	25.0	6.8	5.0	7.0	5.1	7.4	5.1	7.7	5.4	7.9	5.3	8.4	5.3	8.9	5.2
	27.5	6.7	4.9	6.8	5.1	7.3	5.0	7.5	5.3	7.7	5.3	8.2	5.2	8.7	5.1
	30.0	6.5	4.9	6.7	5.0	7.1	4.9	7.4	5.2	7.6	5.2	8.1	5.2	8.5	5.1
	32.5	6.4	4.8	6.6	4.9	7.0	4.9	7.2	5.2	7.4	5.2	7.9	5.1	8.4	5.0
	35.0	6.3	4.8	6.4	4.9	6.8	4.8	7.1	5.1	7.3	5.1	7.7	5.0	8.2	4.9
	37.5	6.2	4.7	6.3	4.8	6.7	4.8	6.9	5.1	7.1	5.0	7.6	5.0	8.0	4.9
	40.0	6.1	4.7	6.2	4.7	6.6	4.7	6.8	5.0	7.0	5.0	7.4	4.9	7.8	4.8
	43.0	6.0	4.6	6.0	4.7	6.4	4.6	6.6	4.9	6.8	4.9	7.2	4.8	7.6	4.8
	46.0	4.6	4.0	4.7	4.1	5.0	4.1	5.2	4.4	5.5	4.4	5.9	4.3	6.3	4.3
80 (9.0)	20.0	8.7	6.2	9.0	6.4	9.7	6.4	10.1	6.7	10.4	6.7	11.0	6.6	11.7	6.5
	22.5	8.7	6.2	9.0	6.4	9.6	6.3	9.9	6.7	10.2	6.6	10.8	6.5	11.5	6.4
	25.0	8.6	6.1	8.8	6.3	9.4	6.2	9.7	6.6	10.0	6.5	10.6	6.5	11.3	6.4
	27.5	8.4	6.1	8.6	6.2	9.2	6.1	9.5	6.5	9.8	6.5	10.4	6.4	11.0	6.3
	30.0	8.3	6.0	8.5	6.1	9.0	6.1	9.3	6.4	9.6	6.4	10.2	6.3	10.8	6.2
	32.5	8.2	5.9	8.3	6.0	8.9	6.0	9.1	6.3	9.4	6.3	10.0	6.2	10.6	6.1
	35.0	8.0	5.8	8.1	5.9	8.7	5.9	9.0	6.3	9.2	6.2	9.8	6.1	10.4	6.0
	37.5	7.9	5.8	8.0	5.9	8.5	5.8	8.8	6.2	9.0	6.1	9.6	6.0	10.2	5.9
	40.0	7.7	5.7	7.8	5.8	8.3	5.7	8.6	6.1	8.8	6.0	9.4	6.0	9.9	5.9
	43.0	7.6	5.6	7.6	5.7	8.1	5.6	8.4	6.0	8.6	5.9	9.1	5.9	9.7	5.8
	46.0	5.9	4.8	5.9	4.9	6.4	4.9	6.7	5.3	6.9	5.2	7.4	5.2	8.0	5.2
100 (11.2)	20.0	10.9	7.7	11.3	7.9	12.1	7.9	12.5	8.3	12.9	8.3	13.7	8.2	14.5	8.0
	22.5	10.8	7.7	11.2	7.8	11.9	7.8	12.3	8.2	12.7	8.2	13.5	8.1	14.3	7.9
	25.0	10.7	7.6	11.0	7.7	11.7	7.7	12.1	8.1	12.5	8.1	13.2	8.0	14.0	7.8
	27.5	10.5	7.5	10.8	7.6	11.5	7.6	11.8	8.0	12.2	8.0	13.0	7.8	13.7	7.7
	30.0	10.3	7.4	10.6	7.5	11.2	7.5	11.6	7.9	12.0	7.8	12.7	7.7	13.5	7.6
	32.5	10.2	7.3	10.3	7.4	11.0	7.4	11.4	7.8	11.7	7.7	12.4	7.6	13.2	7.5
	35.0	10.0	7.2	10.1	7.3	10.8	7.3	11.2	7.7	11.5	7.6	12.2	7.5	12.9	7.4
	37.5	9.8	7.1	9.9	7.2	10.6	7.2	10.9	7.6	11.2	7.5	11.9	7.4	12.6	7.3
	40.0	9.6	7.0	9.7	7.1	10.3	7.1	10.7	7.5	11.0	7.4	11.7	7.3	12.4	7.2
	43.0	9.4	6.9	9.5	7.0	10.1	6.9	10.4	7.3	10.7	7.3	11.4	7.2	12.1	7.1
	46.0	7.3	5.9	7.3	6.0	8.0	6.0	8.3	6.4	8.6	6.4	9.3	6.4	9.9	6.4
125 (14.0)	20.0	13.6	9.4	14.1	9.6	15.1	9.6	15.7	10.1	16.2	10.1	17.2	10.0	18.2	9.8
	22.5	13.6	9.4	14.0	9.6	14.9	9.5	15.4	10.0	15.9	9.9	16.8	9.8	17.8	9.7
	25.0	13.3	9.2	13.7	9.4	14.6	9.4	15.1	9.8	15.6	9.8	16.5	9.7	17.5	9.5
	27.5	13.1	9.1	13.5	9.3	14.3	9.2	14.8	9.7	15.3	9.7	16.2	9.5	17.2	9.4
	30.0	12.9	9.0	13.2	9.2	14.1	9.1	14.5	9.6	15.0	9.5	15.9	9.4	16.8	9.2
	32.5	12.7	8.9	12.9	9.0	13.8	9.0	14.2	9.4	14.7	9.4	15.6	9.3	16.5	9.1
	35.0	12.5	8.8	12.7	8.9	13.5	8.8	14.0	9.3	14.4	9.2	15.2	9.1	16.2	9.0
	37.5	12.3	8.7	12.4	8.8	13.2	8.7	13.6	9.2	14.1	9.1	14.9	9.0	15.8	8.9
	40.0	12.0	8.5	12.2	8.6	12.9	8.6	13.3	9.0	13.8	9.0	14.6	8.9	15.5	8.7
	43.0	11.8	8.4	11.8	8.5	12.6	8.4	13.0	8.9	13.4	8.8	14.2	8.7	15.1	8.6
	46.0	9.1	7.1	9.2	7.2	9.9	7.2	10.3	7.7	10.8	7.7	11.6	7.7	12.4	7.6

kcal/h=kW x 860 , BTU/h = kW x 3,412

4-5. Cooling capacity with PUHY-P450YRJC-A

PLFY-P-VBM-E-S CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp. 21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.4	3.1	3.5	3.2	3.7	3.2	3.9	3.5	4.0	3.4	4.3	3.4	4.5	3.4
	22.5	3.4	3.1	3.5	3.2	3.7	3.2	3.8	3.4	4.0	3.4	4.2	3.4	4.5	3.3
	25.0	3.3	3.1	3.4	3.2	3.7	3.2	3.8	3.4	3.9	3.4	4.2	3.4	4.4	3.3
	27.5	3.3	3.1	3.4	3.2	3.6	3.2	3.8	3.4	3.9	3.4	4.1	3.4	4.4	3.3
	30.0	3.3	3.0	3.3	3.2	3.6	3.1	3.7	3.4	3.8	3.4	4.1	3.3	4.4	3.3
	32.5	3.2	3.0	3.3	3.1	3.5	3.1	3.7	3.4	3.8	3.4	4.1	3.3	4.3	3.3
	35.0	3.2	3.0	3.3	3.1	3.5	3.1	3.6	3.3	3.8	3.3	4.0	3.3	4.3	3.3
	37.5	3.2	3.0	3.2	3.1	3.5	3.1	3.6	3.3	3.7	3.3	4.0	3.3	4.2	3.3
	40.0	3.1	3.0	3.2	3.1	3.4	3.1	3.5	3.3	3.7	3.3	3.9	3.3	4.2	3.3
	43.0	3.1	3.0	3.1	3.1	3.4	3.1	3.5	3.3	3.6	3.3	3.9	3.3	4.2	3.2
	46.0	2.4	2.4	2.4	2.4	2.7	2.7	2.8	2.8	2.9	2.9	3.2	3.0	3.5	3.0
40 (4.5)	20.0	4.3	3.7	4.4	3.8	4.7	3.8	4.8	4.1	5.0	4.0	5.3	4.0	5.7	3.9
	22.5	4.2	3.7	4.3	3.8	4.6	3.8	4.8	4.0	4.9	4.0	5.3	4.0	5.6	3.9
	25.0	4.2	3.6	4.3	3.8	4.6	3.7	4.7	4.0	4.9	4.0	5.2	4.0	5.6	3.9
	27.5	4.1	3.6	4.2	3.7	4.5	3.7	4.7	4.0	4.8	4.0	5.2	3.9	5.5	3.9
	30.0	4.1	3.6	4.2	3.7	4.5	3.7	4.6	4.0	4.8	4.0	5.1	3.9	5.5	3.9
	32.5	4.0	3.6	4.1	3.7	4.4	3.7	4.6	4.0	4.7	3.9	5.1	3.9	5.4	3.9
	35.0	4.0	3.6	4.1	3.7	4.4	3.7	4.5	3.9	4.7	3.9	5.0	3.9	5.4	3.8
	37.5	4.0	3.5	4.0	3.6	4.3	3.6	4.5	3.9	4.6	3.9	5.0	3.9	5.3	3.8
	40.0	3.9	3.5	4.0	3.6	4.3	3.6	4.4	3.9	4.6	3.9	4.9	3.9	5.3	3.8
	43.0	3.9	3.5	3.9	3.6	4.2	3.6	4.4	3.9	4.5	3.9	4.9	3.8	5.2	3.8
	46.0	3.0	3.0	3.1	3.1	3.4	3.3	3.5	3.5	3.7	3.6	4.0	3.5	4.4	3.5
50 (5.6)	20.0	5.3	4.2	5.5	4.3	5.8	4.3	6.0	4.6	6.2	4.6	6.6	4.5	7.0	4.5
	22.5	5.2	4.2	5.4	4.3	5.8	4.3	6.0	4.6	6.2	4.5	6.6	4.5	7.0	4.4
	25.0	5.2	4.1	5.3	4.3	5.7	4.3	5.9	4.5	6.1	4.5	6.5	4.5	6.9	4.4
	27.5	5.1	4.1	5.3	4.2	5.6	4.2	5.8	4.5	6.0	4.5	6.4	4.5	6.9	4.4
	30.0	5.1	4.1	5.2	4.2	5.6	4.2	5.8	4.5	6.0	4.5	6.4	4.4	6.8	4.4
	32.5	5.0	4.1	5.1	4.2	5.5	4.2	5.7	4.5	5.9	4.4	6.3	4.4	6.7	4.4
	35.0	5.0	4.0	5.1	4.2	5.4	4.1	5.6	4.4	5.8	4.4	6.2	4.4	6.7	4.3
	37.5	4.9	4.0	5.0	4.1	5.4	4.1	5.6	4.4	5.8	4.4	6.2	4.4	6.6	4.3
	40.0	4.9	4.0	4.9	4.1	5.3	4.1	5.5	4.4	5.7	4.4	6.1	4.3	6.5	4.3
	43.0	4.8	4.0	4.9	4.1	5.2	4.1	5.4	4.4	5.6	4.3	6.0	4.3	6.5	4.3
	46.0	3.7	3.5	3.8	3.6	4.2	3.6	4.4	3.9	4.6	3.9	5.0	3.9	5.4	3.9
63 (7.1)	20.0	6.7	5.0	6.9	5.1	7.4	5.1	7.6	5.4	7.9	5.3	8.4	5.3	8.9	5.2
	22.5	6.6	4.9	6.8	5.1	7.3	5.0	7.6	5.3	7.8	5.3	8.3	5.3	8.8	5.2
	25.0	6.6	4.9	6.8	5.0	7.2	5.0	7.5	5.3	7.7	5.3	8.2	5.2	8.8	5.2
	27.5	6.5	4.9	6.7	5.0	7.2	5.0	7.4	5.3	7.6	5.2	8.2	5.2	8.7	5.1
	30.0	6.4	4.8	6.6	4.9	7.1	4.9	7.3	5.2	7.6	5.2	8.1	5.2	8.6	5.1
	32.5	6.4	4.8	6.5	4.9	7.0	4.9	7.2	5.2	7.5	5.2	8.0	5.1	8.5	5.1
	35.0	6.3	4.8	6.4	4.9	6.9	4.9	7.1	5.1	7.4	5.1	7.9	5.1	8.5	5.0
	37.5	6.2	4.7	6.3	4.8	6.8	4.8	7.1	5.1	7.3	5.1	7.8	5.1	8.4	5.0
	40.0	6.2	4.7	6.3	4.8	6.7	4.8	7.0	5.1	7.2	5.1	7.8	5.0	8.3	5.0
	43.0	6.1	4.6	6.2	4.7	6.7	4.7	6.9	5.0	7.1	5.0	7.7	5.0	8.2	5.0
	46.0	4.7	4.0	4.8	4.1	5.3	4.2	5.6	4.5	5.8	4.5	6.3	4.5	6.9	4.5
80 (9.0)	20.0	8.5	6.1	8.8	6.2	9.4	6.2	9.7	6.6	10.0	6.5	10.6	6.5	11.3	6.4
	22.5	8.4	6.0	8.7	6.2	9.3	6.2	9.6	6.5	9.9	6.5	10.5	6.4	11.2	6.3
	25.0	8.3	6.0	8.6	6.1	9.2	6.1	9.5	6.5	9.8	6.4	10.4	6.4	11.1	6.3
	27.5	8.3	6.0	8.5	6.1	9.1	6.1	9.4	6.4	9.7	6.4	10.3	6.3	11.0	6.3
	30.0	8.2	5.9	8.4	6.0	9.0	6.0	9.3	6.4	9.6	6.4	10.2	6.3	10.9	6.2
	32.5	8.1	5.9	8.3	6.0	8.9	6.0	9.2	6.3	9.5	6.3	10.1	6.3	10.8	6.2
	35.0	8.0	5.8	8.1	5.9	8.8	5.9	9.0	6.3	9.4	6.3	10.0	6.2	10.7	6.2
	37.5	7.9	5.8	8.0	5.9	8.7	5.9	9.0	6.2	9.3	6.2	9.9	6.2	10.6	6.1
	40.0	7.8	5.7	7.9	5.8	8.6	5.8	8.9	6.2	9.2	6.2	9.8	6.1	10.5	6.1
	43.0	7.7	5.7	7.8	5.8	8.4	5.8	8.7	6.1	9.1	6.1	9.7	6.1	10.4	6.0
	46.0	6.0	4.9	6.1	5.0	6.7	5.0	7.0	5.4	7.4	5.4	8.0	5.4	8.7	5.4
100 (11.2)	20.0	10.6	7.5	10.9	7.7	11.7	7.7	12.0	8.1	12.4	8.0	13.2	8.0	14.1	7.9
	22.5	10.5	7.5	10.8	7.6	11.5	7.6	11.9	8.0	12.3	8.0	13.1	7.9	13.9	7.8
	25.0	10.4	7.4	10.6	7.6	11.4	7.6	11.8	8.0	12.2	7.9	13.0	7.9	13.8	7.8
	27.5	10.3	7.4	10.5	7.5	11.3	7.5	11.7	7.9	12.1	7.9	12.9	7.8	13.7	7.7
	30.0	10.2	7.3	10.4	7.4	11.2	7.4	11.5	7.9	11.9	7.8	12.7	7.8	13.6	7.7
	32.5	10.1	7.2	10.3	7.4	11.0	7.4	11.4	7.8	11.8	7.8	12.6	7.7	13.5	7.6
	35.0	9.9	7.2	10.1	7.3	10.9	7.3	11.2	7.7	11.7	7.7	12.5	7.7	13.3	7.6
	37.5	9.8	7.1	10.0	7.3	10.8	7.3	11.2	7.7	11.6	7.7	12.4	7.6	13.2	7.5
	40.0	9.7	7.1	9.9	7.2	10.6	7.2	11.0	7.6	11.4	7.6	12.2	7.6	13.1	7.5
	43.0	9.6	7.0	9.7	7.1	10.5	7.1	10.9	7.6	11.3	7.5	12.1	7.5	12.9	7.4
	46.0	7.5	6.0	7.6	6.1	8.4	6.2	8.8	6.6	9.2	6.7	10.0	6.7	10.8	6.7
125 (14.0)	20.0	13.2	9.2	13.6	9.4	14.6	9.4	15.1	9.8	15.5	9.8	16.5	9.7	17.6	9.5
	22.5	13.1	9.1	13.5	9.3	14.4	9.3	14.9	9.8	15.4	9.7	16.4	9.6	17.4	9.5
	25.0	13.0	9.0	13.3	9.2	14.3	9.2	14.7	9.7	15.2	9.6	16.2	9.5	17.3	9.4
	27.5	12.8	9.0	13.2	9.1	14.1	9.1	14.6	9.6	15.1	9.6	16.1	9.5	17.1	9.4
	30.0	12.7	8.9	13.0	9.1	13.9	9.0	14.4	9.5	14.9	9.5	15.9	9.4	17.0	9.3
	32.5	12.6	8.8	12.8	9.0	13.8	9.0	14.3	9.5	14.8	9.4	15.8	9.3	16.8	9.2
	35.0	12.4	8.8	12.7	8.9	13.6	8.9	14.0	9.3	14.6	9.4	15.6	9.3	16.7	9.2
	37.5	12.3	8.7	12.5	8.8	13.5	8.8	14.0	9.3	14.4	9.3	15.5	9.2	16.5	9.1
	40.0	12.2	8.6	12.4	8.7	13.3	8.7	13.8	9.2	14.3	9.2	15.3	9.2	16.4	9.1
	43.0	12.0	8.5	12.2	8.6	13.1	8.7	13.6	9.1	14.1	9.1	15.1	9.1	16.2	9.0
	46.0	9.4	7.2	9.5	7.4	10.5	7.4	11.0	8.0	11.5	8.0	12.5	8.0	13.5	8.0

kcal/h=kW x 860 , BTU/h = kW x 3,412

5. Cooling [Wall mounted]

5-1. Cooling capacity with PUMY-P100-140YHMC-C/VHMC-S

PKFY-P-VBM-EC,VHM-EC

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.3	1.9	1.2	2.0	1.2	2.1	1.2
	22.5	1.6	1.1	1.7	1.2	1.8	1.2	1.8	1.2	1.9	1.2	2.0	1.2	2.1	1.2
	25.0	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.2	2.0	1.2
	27.5	1.5	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	30.0	1.5	1.1	1.6	1.2	1.7	1.2	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	32.5	1.5	1.1	1.6	1.2	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	35.0	1.5	1.1	1.6	1.1	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	37.5	1.4	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.8	1.2	1.9	1.1
	40.0	1.4	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.8	1.2	1.9	1.1
	43.0	1.4	1.0	1.5	1.1	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.1	1.9	1.1
	46.0	1.3	1.0	1.4	1.1	1.6	1.1	1.6	1.1	1.6	1.1	1.8	1.1	1.9	1.1
20 (2.2)	20.0	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.4	1.6	2.6	1.6	2.7	1.5
	22.5	2.0	1.5	2.1	1.5	2.3	1.5	2.3	1.6	2.4	1.6	2.6	1.6	2.7	1.5
	25.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.6	2.5	1.5	2.6	1.5
	27.5	2.0	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.6	2.5	1.5	2.6	1.5
	30.0	2.0	1.4	2.1	1.5	2.2	1.5	2.3	1.5	2.3	1.5	2.5	1.5	2.6	1.5
	32.5	1.9	1.4	2.0	1.5	2.2	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.5
	35.0	1.9	1.4	2.0	1.5	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.5
	37.5	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.2	1.5	2.4	1.5	2.5	1.5
	40.0	1.8	1.4	1.9	1.4	2.1	1.4	2.1	1.5	2.2	1.5	2.4	1.5	2.5	1.4
	43.0	1.8	1.3	1.9	1.4	2.1	1.4	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.4
	46.0	1.7	1.3	1.9	1.4	2.0	1.4	2.1	1.5	2.1	1.4	2.3	1.4	2.4	1.4
25 (2.8)	20.0	2.6	1.9	2.8	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.4	1.9
	22.5	2.6	1.8	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.2	1.9	3.4	1.9
	25.0	2.6	1.8	2.7	1.9	2.9	1.9	2.9	2.0	3.0	2.0	3.2	1.9	3.4	1.9
	27.5	2.5	1.8	2.7	1.9	2.8	1.9	2.9	2.0	3.0	1.9	3.2	1.9	3.3	1.9
	30.0	2.5	1.8	2.6	1.9	2.8	1.8	2.9	1.9	3.0	1.9	3.2	1.9	3.3	1.9
	32.5	2.5	1.8	2.6	1.8	2.8	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	35.0	2.4	1.8	2.6	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.2	1.8
	37.5	2.4	1.7	2.5	1.8	2.7	1.8	2.8	1.9	2.8	1.9	3.0	1.9	3.2	1.8
	40.0	2.3	1.7	2.5	1.8	2.7	1.8	2.7	1.9	2.8	1.9	3.0	1.8	3.2	1.8
	43.0	2.3	1.7	2.4	1.8	2.6	1.8	2.7	1.9	2.7	1.8	3.0	1.8	3.1	1.8
	46.0	2.2	1.6	2.4	1.7	2.6	1.7	2.6	1.8	2.7	1.8	2.9	1.8	3.1	1.8
32 (3.6)	20.0	3.4	2.6	3.6	2.7	3.7	2.7	3.9	2.8	4.0	2.8	4.2	2.8	4.4	2.7
	22.5	3.3	2.6	3.5	2.7	3.7	2.7	3.8	2.8	4.0	2.8	4.2	2.8	4.4	2.7
	25.0	3.3	2.6	3.5	2.7	3.7	2.6	3.8	2.8	3.9	2.8	4.1	2.7	4.3	2.7
	27.5	3.3	2.5	3.4	2.7	3.6	2.6	3.7	2.8	3.9	2.8	4.1	2.7	4.3	2.7
	30.0	3.2	2.5	3.4	2.6	3.6	2.6	3.7	2.8	3.8	2.7	4.1	2.7	4.2	2.7
	32.5	3.2	2.5	3.3	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.0	2.7	4.2	2.6
	35.0	3.1	2.5	3.3	2.6	3.5	2.6	3.6	2.7	3.7	2.7	4.0	2.7	4.2	2.6
	37.5	3.1	2.4	3.2	2.6	3.5	2.5	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	40.0	3.0	2.4	3.2	2.5	3.4	2.5	3.5	2.7	3.6	2.7	3.9	2.6	4.1	2.6
	43.0	2.9	2.4	3.1	2.5	3.4	2.5	3.4	2.7	3.5	2.6	3.8	2.6	4.0	2.6
	46.0	2.9	2.3	3.0	2.5	3.3	2.5	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.6
40 (4.5)	20.0	4.2	3.2	4.4	3.3	4.7	3.3	4.8	3.5	5.0	3.4	5.3	3.4	5.5	3.3
	22.5	4.2	3.1	4.4	3.3	4.6	3.2	4.8	3.4	4.9	3.4	5.2	3.4	5.5	3.3
	25.0	4.1	3.1	4.3	3.3	4.6	3.2	4.7	3.4	4.9	3.4	5.2	3.3	5.4	3.3
	27.5	4.1	3.1	4.3	3.2	4.5	3.2	4.7	3.4	4.8	3.4	5.1	3.3	5.4	3.3
	30.0	4.0	3.1	4.2	3.2	4.5	3.2	4.6	3.4	4.8	3.3	5.1	3.3	5.3	3.2
	32.5	4.0	3.0	4.2	3.2	4.4	3.2	4.6	3.3	4.7	3.3	5.0	3.3	5.3	3.2
	35.0	3.9	3.0	4.1	3.1	4.4	3.1	4.5	3.3	4.6	3.3	4.9	3.3	5.2	3.2
	37.5	3.8	3.0	4.0	3.1	4.3	3.1	4.5	3.3	4.6	3.3	4.9	3.2	5.1	3.2
	40.0	3.8	2.9	4.0	3.1	4.3	3.1	4.4	3.3	4.5	3.2	4.8	3.2	5.1	3.1
	43.0	3.7	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.4	3.2	4.8	3.2	5.0	3.1
	46.0	3.6	2.9	3.8	3.0	4.1	3.0	4.2	3.2	4.3	3.2	4.7	3.2	4.9	3.1
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.8	6.0	4.1	6.2	4.0	6.6	4.0	6.9	3.9
	22.5	5.2	3.7	5.5	3.9	5.8	3.8	6.0	4.0	6.1	4.0	6.5	3.9	6.8	3.9
	25.0	5.2	3.7	5.4	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.4	3.9	6.7	3.8
	27.5	5.1	3.7	5.3	3.8	5.7	3.8	5.8	4.0	6.0	3.9	6.4	3.9	6.7	3.8
	30.0	5.0	3.6	5.3	3.8	5.6	3.7	5.8	3.9	5.9	3.9	6.3	3.9	6.6	3.8
	32.5	4.9	3.6	5.2	3.7	5.5	3.7	5.7	3.9	5.9	3.9	6.2	3.8	6.5	3.7
	35.0	4.9	3.5	5.1	3.7	5.5	3.7	5.6	3.9	5.8	3.8	6.2	3.8	6.5	3.7
	37.5	4.8	3.5	5.0	3.7	5.4	3.6	5.5	3.8	5.7	3.8	6.1	3.8	6.4	3.7
	40.0	4.7	3.5	4.9	3.6	5.3	3.6	5.5	3.8	5.6	3.8	6.0	3.7	6.3	3.7
	43.0	4.6	3.4	4.8	3.6	5.2	3.6	5.4	3.8	5.5	3.7	5.9	3.7	6.2	3.6
	46.0	4.4	3.3	4.7	3.5	5.2	3.5	5.3	3.7	5.4	3.7	5.8	3.7	6.1	3.6

kcal/h=kW x 860 , BTU/h = kW x 3,412

5-2. Cooling capacity with PUMY-P200-250YKMC-C

PKFY-P-VBM-EC,VHM-EC

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.3	1.9	1.3	2.1	1.3	2.1	1.2
	22.5	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.3	1.9	1.3	2.0	1.2	2.1	1.2
	25.0	1.6	1.1	1.6	1.2	1.8	1.2	1.8	1.3	1.9	1.3	2.0	1.2	2.1	1.2
	27.5	1.5	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2	2.0	1.2
	30.0	1.5	1.1	1.6	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2	2.0	1.2
	32.5	1.5	1.1	1.5	1.1	1.7	1.1	1.8	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	35.0	1.4	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.1
	37.5	1.4	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.9	1.2	1.9	1.1
	40.0	1.4	1.0	1.4	1.1	1.5	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.1
	43.0	1.3	1.0	1.4	1.0	1.5	1.1	1.6	1.1	1.6	1.1	1.8	1.1	1.8	1.1
	46.0	1.2	1.0	1.3	1.0	1.4	1.0	1.5	1.1	1.5	1.1	1.7	1.1	1.8	1.1
20 (2.2)	20.0	2.1	1.5	2.2	1.5	2.4	1.5	2.4	1.6	2.5	1.6	2.7	1.6	2.8	1.5
	22.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.6	2.6	1.6	2.7	1.5
	25.0	2.0	1.5	2.1	1.5	2.3	1.5	2.4	1.6	2.5	1.6	2.6	1.6	2.7	1.5
	27.5	2.0	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.6	2.6	1.6	2.6	1.5
	30.0	2.0	1.4	2.0	1.5	2.2	1.5	2.3	1.6	2.4	1.6	2.5	1.5	2.6	1.5
	32.5	1.9	1.4	2.0	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.5	2.6	1.5
	35.0	1.8	1.4	1.9	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.5
	37.5	1.8	1.3	1.9	1.4	2.1	1.4	2.2	1.5	2.2	1.5	2.4	1.5	2.5	1.4
	40.0	1.8	1.3	1.8	1.4	2.0	1.4	2.1	1.5	2.2	1.5	2.4	1.5	2.4	1.4
	43.0	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.4	2.1	1.4	2.3	1.4	2.4	1.4
	46.0	1.6	1.2	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.4	2.2	1.4	2.3	1.4
25 (2.8)	20.0	2.7	1.9	2.8	1.9	3.0	1.9	3.1	2.0	3.2	2.0	3.4	2.0	3.5	1.9
	22.5	2.6	1.9	2.7	1.9	2.9	1.9	3.1	2.0	3.2	2.0	3.4	2.0	3.4	1.9
	25.0	2.6	1.8	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.4	1.9
	27.5	2.5	1.8	2.6	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.4	1.9
	30.0	2.5	1.8	2.6	1.8	2.8	1.8	2.9	2.0	3.1	2.0	3.2	1.9	3.3	1.9
	32.5	2.4	1.8	2.5	1.8	2.7	1.8	2.9	1.9	3.0	1.9	3.2	1.9	3.3	1.9
	35.0	2.4	1.7	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.2	1.8
	37.5	2.3	1.7	2.4	1.8	2.6	1.8	2.7	1.9	2.9	1.9	3.1	1.9	3.2	1.8
	40.0	2.2	1.7	2.3	1.7	2.5	1.7	2.7	1.8	2.8	1.8	3.0	1.8	3.1	1.8
	43.0	2.1	1.6	2.2	1.7	2.5	1.7	2.6	1.8	2.7	1.8	2.9	1.8	3.0	1.8
	46.0	2.0	1.6	2.1	1.6	2.4	1.6	2.5	1.8	2.5	1.7	2.8	1.8	2.9	1.7
32 (3.6)	20.0	3.4	2.6	3.6	2.7	3.9	2.7	4.0	2.9	4.1	2.9	4.4	2.8	4.5	2.7
	22.5	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.9	4.1	2.9	4.3	2.8	4.4	2.7
	25.0	3.3	2.6	3.5	2.7	3.7	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.8	4.0	2.8	4.2	2.8	4.3	2.7
	30.0	3.2	2.5	3.3	2.6	3.6	2.6	3.8	2.8	3.9	2.8	4.1	2.8	4.3	2.7
	32.5	3.1	2.5	3.2	2.6	3.5	2.6	3.7	2.8	3.9	2.8	4.1	2.7	4.2	2.6
	35.0	3.0	2.4	3.2	2.5	3.5	2.5	3.6	2.7	3.8	2.7	4.0	2.7	4.1	2.6
	37.5	3.0	2.4	3.1	2.5	3.4	2.5	3.5	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	40.0	2.9	2.4	3.0	2.4	3.3	2.5	3.4	2.6	3.6	2.7	3.9	2.6	4.0	2.6
	43.0	2.7	2.3	2.9	2.4	3.2	2.4	3.3	2.6	3.5	2.6	3.7	2.6	3.9	2.5
	46.0	2.6	2.2	2.7	2.3	3.0	2.4	3.2	2.5	3.3	2.5	3.6	2.6	3.8	2.5
40 (4.5)	20.0	4.3	3.2	4.5	3.3	4.8	3.3	5.0	3.5	5.1	3.5	5.4	3.4	5.6	3.3
	22.5	4.2	3.2	4.4	3.3	4.7	3.3	4.9	3.5	5.1	3.5	5.4	3.4	5.5	3.3
	25.0	4.1	3.1	4.3	3.2	4.7	3.3	4.9	3.5	5.0	3.5	5.4	3.4	5.5	3.3
	27.5	4.1	3.1	4.2	3.2	4.6	3.2	4.8	3.4	5.0	3.4	5.3	3.4	5.4	3.3
	30.0	4.0	3.1	4.1	3.2	4.5	3.2	4.7	3.4	4.9	3.4	5.2	3.3	5.4	3.2
	32.5	3.9	3.0	4.1	3.1	4.4	3.1	4.6	3.4	4.8	3.4	5.1	3.3	5.3	3.2
	35.0	3.8	3.0	4.0	3.1	4.3	3.1	4.5	3.3	4.7	3.3	5.0	3.3	5.2	3.2
	37.5	3.7	2.9	3.9	3.0	4.2	3.1	4.4	3.3	4.6	3.3	4.9	3.2	5.1	3.2
	40.0	3.6	2.9	3.7	3.0	4.1	3.0	4.3	3.2	4.5	3.2	4.8	3.2	5.0	3.1
	43.0	3.4	2.8	3.6	2.9	4.0	2.9	4.1	3.2	4.3	3.2	4.7	3.2	4.9	3.1
	46.0	3.3	2.7	3.4	2.8	3.8	2.9	4.0	3.1	4.1	3.1	4.5	3.1	4.7	3.0
50 (5.6)	20.0	5.3	3.8	5.5	3.9	6.0	3.9	6.2	4.1	6.4	4.1	6.8	4.1	7.0	3.9
	22.5	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.1	6.3	4.1	6.7	4.0	6.9	3.9
	25.0	5.2	3.7	5.4	3.8	5.8	3.8	6.0	4.1	6.3	4.1	6.7	4.0	6.8	3.9
	27.5	5.1	3.7	5.3	3.8	5.7	3.8	5.9	4.0	6.2	4.0	6.6	4.0	6.7	3.8
	30.0	5.0	3.6	5.2	3.7	5.6	3.7	5.9	4.0	6.1	4.0	6.4	3.9	6.7	3.8
	32.5	4.9	3.6	5.0	3.7	5.5	3.7	5.8	3.9	6.0	3.9	6.3	3.9	6.6	3.8
	35.0	4.7	3.5	4.9	3.6	5.4	3.6	5.6	3.9	5.9	3.9	6.2	3.8	6.4	3.7
	37.5	4.6	3.4	4.8	3.5	5.3	3.6	5.5	3.8	5.7	3.8	6.1	3.8	6.3	3.7
	40.0	4.5	3.4	4.6	3.5	5.1	3.5	5.3	3.7	5.5	3.7	6.0	3.7	6.2	3.6
	43.0	4.3	3.2	4.5	3.4	4.9	3.4	5.2	3.7	5.4	3.7	5.8	3.7	6.0	3.6
	46.0	4.1	3.2	4.3	3.3	4.7	3.3	4.9	3.6	5.1	3.6	5.7	3.6	5.9	3.5

kcal/h=kW x 860 , BTU/h = kW x 3,412

CT

5-3. Cooling capacity with PUHY-P300YRJC-A

PKFY-P-VBM-EC,VHM-EC

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.3	1.9	1.2	2.0	1.2	2.1	1.2
	22.5	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.3	1.9	1.2	2.0	1.2	2.1	1.2
	25.0	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.3	1.9	1.2	2.0	1.2	2.1	1.2
	27.5	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	1.8	1.2	2.0	1.2	2.1	1.2
	30.0	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	32.5	1.6	1.1	1.6	1.2	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	35.0	1.5	1.1	1.6	1.1	1.7	1.1	1.7	1.2	1.7	1.2	1.8	1.2	1.9	1.1
	37.5	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.8	1.1	1.9	1.1
	40.0	1.5	1.1	1.5	1.1	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.1	1.9	1.1
	43.0	1.4	1.1	1.5	1.1	1.6	1.1	1.6	1.1	1.6	1.1	1.7	1.1	1.8	1.1
	46.0	1.1	0.9	1.1	1.0	1.2	0.9	1.3	1.0	1.3	1.0	1.4	1.0	1.5	1.0
20 (2.2)	20.0	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.6	2.6	1.6	2.8	1.6
	22.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.6	2.6	1.6	2.8	1.6
	25.0	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.4	1.6	2.6	1.6	2.7	1.5
	27.5	2.1	1.5	2.1	1.5	2.3	1.5	2.3	1.6	2.4	1.6	2.5	1.5	2.7	1.5
	30.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.6	2.3	1.5	2.5	1.5	2.6	1.5
	32.5	2.0	1.4	2.1	1.5	2.2	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.5
	35.0	2.0	1.4	2.0	1.5	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.5
	37.5	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.2	1.5	2.3	1.5	2.5	1.4
	40.0	1.9	1.4	2.0	1.4	2.1	1.4	2.1	1.5	2.2	1.5	2.3	1.4	2.4	1.4
	43.0	1.8	1.4	1.9	1.4	2.0	1.4	2.1	1.5	2.1	1.4	2.2	1.4	2.3	1.4
	46.0	1.4	1.2	1.5	1.2	1.6	1.2	1.7	1.3	1.7	1.3	1.8	1.3	1.9	1.2
25 (2.8)	20.0	2.7	1.9	2.8	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	2.0
	22.5	2.7	1.9	2.8	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	2.0
	25.0	2.7	1.9	2.8	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	1.9
	27.5	2.7	1.9	2.7	1.9	2.9	1.9	3.0	2.0	3.0	2.0	3.2	1.9	3.4	1.9
	30.0	2.6	1.8	2.7	1.9	2.8	1.9	2.9	2.0	3.0	1.9	3.2	1.9	3.3	1.9
	32.5	2.6	1.8	2.6	1.9	2.8	1.8	2.9	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	35.0	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.0	1.9	3.2	1.8
	37.5	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.8	1.9	3.0	1.8	3.1	1.8
	40.0	2.4	1.7	2.5	1.8	2.6	1.8	2.7	1.9	2.8	1.8	2.9	1.8	3.1	1.8
	43.0	2.4	1.7	2.4	1.8	2.6	1.7	2.6	1.8	2.7	1.8	2.8	1.8	3.0	1.7
	46.0	1.8	1.5	1.9	1.5	2.0	1.5	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.6
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.6	2.8
	22.5	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.6	2.8
	25.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	27.5	3.4	2.6	3.5	2.7	3.7	2.7	3.8	2.8	3.9	2.8	4.1	2.7	4.4	2.7
	30.0	3.3	2.6	3.4	2.7	3.6	2.6	3.7	2.8	3.8	2.8	4.1	2.7	4.3	2.7
	32.5	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.8	3.8	2.7	4.0	2.7	4.2	2.6
	35.0	3.2	2.5	3.3	2.6	3.5	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	37.5	3.2	2.5	3.3	2.6	3.4	2.5	3.5	2.7	3.6	2.7	3.8	2.6	4.0	2.6
	40.0	3.1	2.5	3.2	2.5	3.4	2.5	3.5	2.7	3.6	2.6	3.7	2.6	3.9	2.6
	43.0	3.0	2.4	3.1	2.5	3.3	2.5	3.4	2.6	3.5	2.6	3.6	2.6	3.8	2.5
	46.0	2.3	2.1	2.4	2.2	2.6	2.2	2.7	2.4	2.8	2.4	2.9	2.3	3.2	2.3
40 (4.5)	20.0	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.5	5.0	3.4	5.3	3.4	5.7	3.4
	22.5	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.5	5.0	3.4	5.3	3.4	5.7	3.4
	25.0	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.5	5.0	3.4	5.3	3.4	5.6	3.3
	27.5	4.3	3.2	4.4	3.3	4.6	3.2	4.8	3.4	4.9	3.4	5.2	3.3	5.5	3.3
	30.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.4	4.8	3.4	5.1	3.3	5.4	3.3
	32.5	4.1	3.1	4.2	3.2	4.5	3.2	4.6	3.3	4.7	3.3	5.0	3.3	5.3	3.2
	35.0	4.0	3.1	4.1	3.2	4.4	3.1	4.5	3.3	4.6	3.3	4.9	3.2	5.2	3.2
	37.5	4.0	3.0	4.1	3.1	4.3	3.1	4.4	3.3	4.5	3.2	4.8	3.2	5.0	3.1
	40.0	3.9	3.0	4.0	3.1	4.2	3.1	4.3	3.2	4.4	3.2	4.7	3.1	4.9	3.1
	43.0	3.8	3.0	3.9	3.0	4.1	3.0	4.2	3.2	4.3	3.2	4.5	3.1	4.8	3.1
	46.0	2.9	2.6	3.0	2.7	3.3	2.6	3.4	2.8	3.5	2.8	3.7	2.8	4.0	2.8
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.1	6.2	4.0	6.6	4.0	7.1	4.0
	22.5	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.1	6.2	4.0	6.6	4.0	7.1	4.0
	25.0	5.3	3.8	5.5	3.9	5.9	3.9	6.0	4.1	6.2	4.0	6.6	4.0	7.0	3.9
	27.5	5.3	3.8	5.5	3.9	5.8	3.8	5.9	4.0	6.1	4.0	6.4	3.9	6.8	3.9
	30.0	5.2	3.7	5.4	3.8	5.7	3.8	5.8	4.0	6.0	3.9	6.3	3.9	6.7	3.8
	32.5	5.1	3.7	5.3	3.8	5.6	3.7	5.7	3.9	5.9	3.9	6.2	3.8	6.6	3.8
	35.0	5.0	3.6	5.2	3.7	5.5	3.7	5.6	3.9	5.8	3.8	6.1	3.8	6.4	3.7
	37.5	4.9	3.6	5.1	3.7	5.4	3.6	5.5	3.8	5.6	3.8	5.9	3.7	6.3	3.7
	40.0	4.8	3.5	5.0	3.6	5.3	3.6	5.4	3.8	5.5	3.7	5.8	3.7	6.1	3.6
	43.0	4.7	3.5	4.8	3.6	5.1	3.5	5.3	3.7	5.4	3.7	5.6	3.6	6.0	3.5
	46.0	3.6	3.0	3.8	3.1	4.1	3.1	4.2	3.3	4.3	3.3	4.6	3.2	4.9	3.2

kcal/h=kW x 860 , BTU/h = kW x 3,412

5-4. Cooling capacity with PUHY-P350-400YRJC-A

PKFY-P-VBM-EC,VHM-EC

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp. 21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.7	1.2	1.7	1.2	1.8	1.2	1.9	1.3	2.0	1.3	2.1	1.3	2.2	1.2
	22.5	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.3	1.9	1.3	2.0	1.2	2.2	1.2
	25.0	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.3	1.9	1.2	2.0	1.2	2.1	1.2
	27.5	1.6	1.2	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2	2.1	1.2
	30.0	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	32.5	1.5	1.1	1.6	1.1	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	35.0	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.9	1.2	2.0	1.2
	37.5	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.8	1.2	1.9	1.1
	40.0	1.5	1.1	1.5	1.1	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.1	1.9	1.1
	43.0	1.4	1.1	1.4	1.1	1.5	1.1	1.6	1.1	1.6	1.1	1.7	1.1	1.8	1.1
	46.0	1.1	0.9	1.1	0.9	1.2	0.9	1.3	1.0	1.3	1.0	1.4	1.0	1.5	1.0
20 (2.2)	20.0	2.1	1.5	2.2	1.6	2.4	1.6	2.5	1.6	2.5	1.6	2.7	1.6	2.9	1.6
	22.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.6	2.6	1.6	2.8	1.6
	25.0	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.4	1.6	2.6	1.6	2.8	1.5
	27.5	2.1	1.5	2.1	1.5	2.3	1.5	2.3	1.6	2.4	1.6	2.5	1.5	2.7	1.5
	30.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.5	2.5	1.5	2.6	1.5
	32.5	2.0	1.4	2.0	1.5	2.2	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.5
	35.0	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.5
	37.5	1.9	1.4	2.0	1.4	2.1	1.4	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.4
	40.0	1.9	1.4	1.9	1.4	2.0	1.4	2.1	1.5	2.2	1.5	2.3	1.4	2.4	1.4
	43.0	1.9	1.4	1.9	1.4	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.4	2.4	1.4
	46.0	1.4	1.2	1.4	1.2	1.6	1.2	1.6	1.3	1.7	1.3	1.8	1.3	2.0	1.3
25 (2.8)	20.0	2.7	1.9	2.8	2.0	3.0	2.0	3.1	2.1	3.2	2.1	3.4	2.0	3.6	2.0
	22.5	2.7	1.9	2.8	1.9	3.0	1.9	3.1	2.0	3.2	2.0	3.4	2.0	3.6	2.0
	25.0	2.7	1.9	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	1.9
	27.5	2.6	1.9	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.2	1.9	3.4	1.9
	30.0	2.6	1.8	2.6	1.9	2.8	1.9	2.9	2.0	3.0	1.9	3.2	1.9	3.4	1.9
	32.5	2.5	1.8	2.6	1.8	2.8	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	35.0	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.0	1.9	3.2	1.8
	37.5	2.5	1.8	2.5	1.8	2.6	1.8	2.7	1.9	2.8	1.9	3.0	1.8	3.2	1.8
	40.0	2.4	1.7	2.4	1.8	2.6	1.7	2.7	1.8	2.8	1.8	2.9	1.8	3.1	1.8
	43.0	2.4	1.7	2.4	1.7	2.5	1.7	2.6	1.8	2.7	1.8	2.8	1.8	3.0	1.8
	46.0	1.8	1.5	1.8	1.5	2.0	1.5	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.6
32 (3.6)	20.0	3.5	2.7	3.6	2.7	3.9	2.7	4.0	2.9	4.2	2.9	4.4	2.9	4.7	2.8
	22.5	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.9	4.1	2.9	4.3	2.8	4.6	2.8
	25.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	27.5	3.4	2.6	3.5	2.7	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.8	4.4	2.7
	30.0	3.3	2.6	3.4	2.6	3.6	2.6	3.7	2.8	3.8	2.8	4.1	2.7	4.3	2.7
	32.5	3.3	2.5	3.3	2.6	3.5	2.6	3.7	2.7	3.8	2.7	4.0	2.7	4.2	2.7
	35.0	3.2	2.5	3.3	2.6	3.5	2.5	3.6	2.7	3.7	2.7	3.9	2.7	4.2	2.6
	37.5	3.2	2.5	3.2	2.5	3.4	2.5	3.5	2.7	3.6	2.7	3.8	2.6	4.1	2.6
	40.0	3.1	2.5	3.1	2.5	3.3	2.5	3.4	2.7	3.5	2.6	3.8	2.6	4.0	2.6
	43.0	3.0	2.4	3.0	2.5	3.2	2.4	3.3	2.6	3.4	2.6	3.7	2.6	3.9	2.5
	46.0	2.4	2.1	2.4	2.2	2.6	2.2	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.3
40 (4.5)	20.0	4.4	3.2	4.5	3.3	4.9	3.3	5.0	3.5	5.2	3.5	5.5	3.5	5.8	3.4
	22.5	4.4	3.2	4.5	3.3	4.8	3.3	4.9	3.5	5.1	3.5	5.4	3.4	5.7	3.4
	25.0	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.5	5.0	3.4	5.3	3.4	5.6	3.3
	27.5	4.2	3.2	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.2	3.4	5.5	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.4	4.8	3.4	5.1	3.3	5.4	3.3
	32.5	4.1	3.1	4.2	3.2	4.4	3.1	4.6	3.3	4.7	3.3	5.0	3.3	5.3	3.2
	35.0	4.0	3.1	4.1	3.1	4.3	3.1	4.5	3.3	4.6	3.3	4.9	3.2	5.2	3.2
	37.5	3.9	3.0	4.0	3.1	4.2	3.1	4.4	3.3	4.5	3.2	4.8	3.2	5.1	3.2
	40.0	3.9	3.0	3.9	3.0	4.2	3.0	4.3	3.2	4.4	3.2	4.7	3.2	5.0	3.1
	43.0	3.8	3.0	3.8	3.0	4.0	3.0	4.2	3.2	4.3	3.2	4.6	3.1	4.8	3.1
	46.0	2.9	2.6	3.0	2.6	3.2	2.6	3.3	2.8	3.5	2.8	3.7	2.8	4.0	2.8
50 (5.6)	20.0	5.4	3.8	5.6	4.0	6.1	4.0	6.3	4.2	6.5	4.2	6.9	4.1	7.3	4.0
	22.5	5.4	3.8	5.6	3.9	6.0	3.9	6.2	4.1	6.3	4.1	6.7	4.0	7.1	4.0
	25.0	5.3	3.8	5.5	3.9	5.8	3.9	6.0	4.1	6.2	4.0	6.6	4.0	7.0	3.9
	27.5	5.3	3.7	5.4	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.5	3.9	6.9	3.9
	30.0	5.2	3.7	5.3	3.8	5.6	3.7	5.8	4.0	6.0	3.9	6.4	3.9	6.7	3.8
	32.5	5.1	3.7	5.2	3.7	5.5	3.7	5.7	3.9	5.9	3.9	6.2	3.8	6.6	3.8
	35.0	5.0	3.6	5.1	3.7	5.4	3.6	5.6	3.9	5.7	3.8	6.1	3.8	6.5	3.7
	37.5	4.9	3.6	5.0	3.6	5.3	3.6	5.5	3.8	5.6	3.8	6.0	3.7	6.3	3.7
	40.0	4.8	3.5	4.9	3.6	5.2	3.5	5.3	3.7	5.5	3.7	5.8	3.7	6.2	3.6
	43.0	4.7	3.5	4.7	3.5	5.0	3.5	5.2	3.7	5.4	3.7	5.7	3.6	6.0	3.6
	46.0	3.7	3.0	3.7	3.0	4.0	3.0	4.1	3.2	4.3	3.2	4.6	3.2	5.0	3.2

kcal/h=kW x 860 , BTU/h = kW x 3,412

CT

5-5. Cooling capacity with PUHY-P450YRJC-A

PKFY-P-VBM-EC,VHM-EC

CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.3	1.9	1.2	2.0	1.2	2.1	1.2
	22.5	1.6	1.2	1.6	1.2	1.8	1.2	1.8	1.2	1.9	1.2	2.0	1.2	2.1	1.2
	25.0	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.2	2.1	1.2
	27.5	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.2	2.1	1.2
	30.0	1.5	1.1	1.6	1.2	1.7	1.1	1.8	1.2	1.8	1.2	1.9	1.2	2.1	1.2
	32.5	1.5	1.1	1.6	1.1	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	35.0	1.5	1.1	1.5	1.1	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	37.5	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	40.0	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.9	1.2	2.0	1.2
	43.0	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.8	1.2	2.0	1.2
	46.0	1.1	0.9	1.2	1.0	1.3	1.0	1.3	1.0	1.4	1.0	1.5	1.0	1.6	1.0
20 (2.2)	20.0	2.1	1.5	2.1	1.5	2.3	1.5	2.4	1.6	2.4	1.6	2.6	1.6	2.8	1.5
	22.5	2.1	1.5	2.1	1.5	2.3	1.5	2.3	1.6	2.4	1.6	2.6	1.6	2.7	1.5
	25.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.6	2.5	1.6	2.7	1.5
	27.5	2.0	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.6	2.5	1.5	2.7	1.5
	30.0	2.0	1.4	2.0	1.5	2.2	1.5	2.3	1.6	2.3	1.5	2.5	1.5	2.7	1.5
	32.5	2.0	1.4	2.0	1.5	2.2	1.5	2.2	1.5	2.3	1.5	2.5	1.5	2.6	1.5
	35.0	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.5	1.5	2.6	1.5
	37.5	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.5
	40.0	1.9	1.4	1.9	1.4	2.1	1.4	2.2	1.5	2.2	1.5	2.4	1.5	2.6	1.5
	43.0	1.9	1.4	1.9	1.4	2.1	1.4	2.1	1.5	2.2	1.5	2.4	1.5	2.5	1.5
	46.0	1.5	1.2	1.5	1.2	1.6	1.2	1.7	1.3	1.8	1.3	2.0	1.3	2.1	1.3
25 (2.8)	20.0	2.6	1.9	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	1.9
	22.5	2.6	1.9	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	1.9
	25.0	2.6	1.8	2.7	1.9	2.9	1.9	2.9	2.0	3.0	2.0	3.2	1.9	3.5	1.9
	27.5	2.6	1.8	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	1.9	3.4	1.9
	30.0	2.5	1.8	2.6	1.8	2.8	1.8	2.9	1.9	3.0	1.9	3.2	1.9	3.4	1.9
	32.5	2.5	1.8	2.6	1.8	2.8	1.8	2.9	1.9	3.0	1.9	3.2	1.9	3.4	1.9
	35.0	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	37.5	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	40.0	2.4	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	43.0	2.4	1.7	2.4	1.8	2.6	1.8	2.7	1.9	2.8	1.9	3.0	1.9	3.2	1.8
	46.0	1.9	1.5	1.9	1.5	2.1	1.5	2.2	1.6	2.3	1.6	2.5	1.6	2.7	1.6
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.7	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.5	2.8
	22.5	3.4	2.6	3.5	2.7	3.7	2.7	3.8	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	25.0	3.3	2.6	3.4	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.8	4.4	2.7
	27.5	3.3	2.6	3.4	2.6	3.6	2.6	3.8	2.8	3.9	2.8	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.3	2.6	3.6	2.6	3.7	2.8	3.8	2.8	4.1	2.7	4.4	2.7
	32.5	3.2	2.5	3.3	2.6	3.5	2.6	3.7	2.8	3.8	2.7	4.1	2.7	4.3	2.7
	35.0	3.2	2.5	3.3	2.6	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.7	4.3	2.7
	37.5	3.2	2.5	3.2	2.6	3.5	2.5	3.6	2.7	3.7	2.7	4.0	2.7	4.2	2.7
	40.0	3.1	2.5	3.2	2.5	3.4	2.5	3.5	2.7	3.7	2.7	3.9	2.7	4.2	2.6
	43.0	3.1	2.5	3.1	2.5	3.4	2.5	3.5	2.7	3.6	2.7	3.9	2.7	4.2	2.6
	46.0	2.4	2.1	2.4	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.2	2.4	3.5	2.4
40 (4.5)	20.0	4.3	3.2	4.4	3.3	4.7	3.3	4.8	3.5	5.0	3.4	5.3	3.4	5.7	3.4
	22.5	4.2	3.2	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.3	3.4	5.6	3.3
	25.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.4	4.9	3.4	5.2	3.4	5.6	3.3
	27.5	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.4	4.8	3.4	5.2	3.3	5.5	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.6	3.4	4.8	3.4	5.1	3.3	5.5	3.3
	32.5	4.0	3.1	4.1	3.2	4.4	3.1	4.6	3.3	4.7	3.3	5.1	3.3	5.4	3.3
	35.0	4.0	3.1	4.1	3.1	4.4	3.1	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.2
	37.5	4.0	3.0	4.0	3.1	4.3	3.1	4.5	3.3	4.6	3.3	5.0	3.3	5.3	3.2
	40.0	3.9	3.0	4.0	3.1	4.3	3.1	4.4	3.3	4.6	3.3	4.9	3.2	5.3	3.2
	43.0	3.9	3.0	3.9	3.1	4.2	3.1	4.4	3.3	4.5	3.2	4.9	3.2	5.2	3.2
	46.0	3.0	2.6	3.1	2.7	3.4	2.7	3.5	2.9	3.7	2.9	4.0	2.9	4.4	2.9
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.8	6.0	4.1	6.2	4.0	6.6	4.0	7.0	3.9
	22.5	5.2	3.7	5.4	3.8	5.8	3.8	6.0	4.0	6.2	4.0	6.6	4.0	7.0	3.9
	25.0	5.2	3.7	5.3	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.5	3.9	6.9	3.9
	27.5	5.1	3.7	5.3	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	3.9	6.9	3.9
	30.0	5.1	3.7	5.2	3.7	5.6	3.7	5.8	3.9	6.0	3.9	6.4	3.9	6.8	3.8
	32.5	5.0	3.6	5.1	3.7	5.5	3.7	5.7	3.9	5.9	3.9	6.3	3.9	6.7	3.8
	35.0	5.0	3.6	5.1	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.8	6.7	3.8
	37.5	4.9	3.6	5.0	3.6	5.4	3.6	5.6	3.9	5.8	3.8	6.2	3.8	6.6	3.8
	40.0	4.9	3.5	4.9	3.6	5.3	3.6	5.5	3.8	5.7	3.8	6.1	3.8	6.5	3.8
	43.0	4.8	3.5	4.9	3.6	5.2	3.6	5.4	3.8	5.6	3.8	6.0	3.8	6.5	3.7
	46.0	3.7	3.0	3.8	3.1	4.2	3.1	4.4	3.3	4.6	3.3	5.0	3.4	5.4	3.3

kcal/h=kW x 860 , BTU/h = kW x 3,412

6-1. Heating capacity with PUMY-P100-140YHMC-C/VHMC-S

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
15 (1.9)	-15.0	1.3	1.3	1.2	1.2
	-10.0	1.4	1.4	1.3	1.3
	-5.0	1.6	1.6	1.5	1.5
	0.0	1.8	1.7	1.7	1.7
	2.5	1.9	1.8	1.8	1.7
	6.0	1.9	1.9	1.9	1.8
	7.5	2.1	2.0	1.9	1.8
	10.0	2.1	2.1	1.9	1.8
	12.5	2.2	2.2	1.9	1.8
	15.5	2.3	2.2	1.9	1.8
20 (2.5)	-15.0	1.8	1.7	1.6	1.6
	-10.0	1.9	1.8	1.8	1.8
	-5.0	2.1	2.1	2.0	2.0
	0.0	2.4	2.3	2.2	2.2
	2.5	2.5	2.4	2.3	2.3
	6.0	2.6	2.5	2.5	2.4
	7.5	2.7	2.7	2.5	2.4
	10.0	2.8	2.8	2.5	2.4
	12.5	3.0	2.9	2.5	2.4
	15.5	3.1	2.9	2.5	2.4
22 (2.8)	-15.0	2.0	1.9	1.8	1.8
	-10.0	2.1	2.0	2.0	2.0
	-5.0	2.4	2.3	2.2	2.2
	0.0	2.6	2.6	2.5	2.4
	2.5	2.8	2.7	2.6	2.6
	6.0	2.9	2.8	2.8	2.7
	7.5	3.0	3.0	2.8	2.7
	10.0	3.2	3.1	2.8	2.7
	12.5	3.3	3.2	2.8	2.7
	15.5	3.4	3.2	2.8	2.7
25 (3.2)	-15.0	2.2	2.1	2.1	2.0
	-10.0	2.4	2.3	2.3	2.2
	-5.0	2.7	2.7	2.5	2.5
	0.0	3.0	2.9	2.8	2.8
	2.5	3.2	3.1	3.0	2.9
	6.0	3.3	3.2	3.2	3.1
	7.5	3.5	3.4	3.2	3.1
	10.0	3.6	3.5	3.2	3.1
	12.5	3.8	3.7	3.2	3.1
	15.5	3.9	3.7	3.2	3.1
28 (3.6)	-15.0	2.5	2.4	2.3	2.3
	-10.0	2.7	2.6	2.6	2.5
	-5.0	3.1	3.0	2.8	2.8
	0.0	3.4	3.3	3.2	3.1
	2.5	3.6	3.5	3.3	3.3
	6.0	3.7	3.6	3.6	3.5
	7.5	3.9	3.8	3.6	3.5
	10.0	4.1	4.0	3.6	3.5
	12.5	4.2	4.1	3.6	3.5
	15.5	4.4	4.1	3.6	3.5
32 (4.0)	-15.0	2.8	2.7	2.6	2.6
	-10.0	3.0	2.9	2.8	2.8
	-5.0	3.4	3.3	3.2	3.1
	0.0	3.8	3.7	3.5	3.5
	2.5	4.0	3.8	3.7	3.7
	6.0	4.1	4.0	4.0	3.9
	7.5	4.3	4.2	4.0	3.9
	10.0	4.5	4.4	4.0	3.9
	12.5	4.7	4.6	4.0	3.9
	15.5	4.9	4.6	4.0	3.9
36 (4.5)	-15.0	3.2	3.0	2.9	2.9
	-10.0	3.4	3.3	3.2	3.2
	-5.0	3.8	3.7	3.6	3.5
	0.0	4.2	4.1	4.0	3.9
	2.5	4.5	4.3	4.2	4.1
	6.0	4.6	4.5	4.5	4.4
	7.5	4.9	4.8	4.5	4.4
	10.0	5.1	5.0	4.5	4.4
	12.5	5.3	5.2	4.5	4.4
	15.5	5.5	5.2	4.5	4.4

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
40 (5.0)	-15.0	3.5	3.4	3.3	3.2
	-10.0	3.8	3.7	3.6	3.5
	-5.0	4.3	4.2	4.0	3.9
	0.0	4.7	4.6	4.4	4.4
	2.5	5.0	4.8	4.7	4.6
	6.0	5.1	5.0	5.0	4.9
	7.5	5.4	5.3	5.0	4.9
	10.0	5.7	5.5	5.0	4.9
	12.5	5.9	5.8	5.0	4.9
	15.5	6.2	5.8	5.0	4.9
45 (5.6)	-15.0	3.9	3.8	3.6	3.6
	-10.0	4.2	4.1	4.0	3.9
	-5.0	4.8	4.6	4.4	4.4
	0.0	5.3	5.2	4.9	4.9
	2.5	5.5	5.4	5.2	5.2
	6.0	5.7	5.6	5.5	5.4
	7.5	6.0	5.9	5.5	5.4
	10.0	6.3	6.2	5.5	5.4
	12.5	6.6	6.4	5.5	5.4
	15.5	6.9	6.4	5.5	5.4
50 (6.3)	-15.0	4.4	4.2	4.1	4.0
	-10.0	4.7	4.6	4.5	4.4
	-5.0	5.4	5.2	5.0	4.9
	0.0	5.9	5.8	5.5	5.5
	2.5	6.2	6.0	5.9	5.8
	6.0	6.4	6.3	6.2	6.1
	7.5	6.8	6.7	6.2	6.1
	10.0	7.1	6.9	6.2	6.1
	12.5	7.4	7.2	6.2	6.1
	15.5	7.7	7.2	6.2	6.1
56 (7.0)	-15.0	4.9	4.7	4.6	4.5
	-10.0	5.3	5.1	5.0	4.9
	-5.0	6.0	5.8	5.5	5.5
	0.0	6.6	6.4	6.2	6.1
	2.5	6.9	6.7	6.5	6.4
	6.0	7.1	7.0	6.9	6.8
	7.5	7.6	7.4	6.9	6.8
	10.0	7.9	7.7	6.9	6.8
	12.5	8.3	8.1	6.9	6.8
	15.5	8.6	8.1	6.9	6.8
63 (8.0)	-15.0	5.6	5.4	5.2	5.1
	-10.0	6.0	5.8	5.7	5.6
	-5.0	6.8	6.6	6.3	6.2
	0.0	7.5	7.4	7.0	7.0
	2.5	7.9	7.7	7.4	7.4
	6.0	8.2	8.0	7.9	7.8
	7.5	8.6	8.5	7.9	7.8
	10.0	9.0	8.8	7.9	7.8
	12.5	9.4	9.2	7.9	7.8
	15.5	9.8	9.2	7.9	7.8
71 (9.0)	-15.0	6.3	6.0	5.9	5.8
	-10.0	6.8	6.6	6.4	6.3
	-5.0	7.7	7.5	7.1	7.0
	0.0	8.5	8.3	7.9	7.8
	2.5	8.9	8.6	8.4	8.3
	6.0	9.2	9.0	8.9	8.7
	7.5	9.7	9.5	8.9	8.7
	10.0	10.2	9.9	8.9	8.7
	12.5	10.6	10.4	8.9	8.7
	15.5	11.1	10.4	8.9	8.7
80 (10.0)	-15.0	7.0	6.7	6.5	6.4
	-10.0	7.5	7.3	7.1	7.0
	-5.0	8.5	8.3	7.9	7.8
	0.0	9.4	9.2	8.8	8.7
	2.5	9.9	9.6	9.3	9.2
	6.0	10.2	10.0	9.9	9.7
	7.5	10.8	10.6	9.9	9.7
	10.0	11.3	11.0	9.9	9.7
	12.5	11.8	11.5	9.9	9.7
	15.5	12.3	11.5	9.9	9.7

kcal/h=kW x 860 , BTU/h = kW x 3,412

6. Heating [All indoor units]

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
100 (12.5)	-15.0	8.8	8.4	8.1	8.0
	-10.0	9.4	9.1	8.9	8.8
	-5.0	10.6	10.4	9.9	9.8
	0.0	11.8	11.5	11.0	10.9
	2.5	12.4	12.0	11.6	11.5
	6.0	12.8	12.5	12.4	12.1
	7.5	13.5	13.3	12.4	12.1
	10.0	14.1	13.8	12.4	12.1
	12.5	14.8	14.4	12.4	12.1
	15.5	15.4	14.4	12.4	12.1
125 (16.0)	-15.0	11.2	10.7	10.4	10.2
	-10.0	12.0	11.7	11.4	11.2
	-5.0	13.6	13.3	12.6	12.5
	0.0	15.0	14.7	14.1	13.9
	2.5	15.8	15.4	14.9	14.7
	6.0	16.3	16.0	15.8	15.5
	7.5	17.3	17.0	15.8	15.5
	10.0	18.1	17.6	15.8	15.5
	12.5	18.9	18.4	15.8	15.5
	15.5	19.7	18.4	15.8	15.5
140 (18.0)	-15.0	12.6	12.1	11.7	11.5
	-10.0	13.5	13.1	12.8	12.6
	-5.0	15.3	14.9	14.2	14.0
	0.0	16.9	16.6	15.8	15.7
	2.5	17.8	17.3	16.7	16.6
	6.0	18.4	18.0	17.8	17.5
	7.5	19.4	19.1	17.8	17.5
	10.0	20.3	19.8	17.8	17.5
	12.5	21.2	20.7	17.8	17.5
	15.5	22.1	20.7	17.8	17.5

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
200 (25.0)	-15.0	17.5	16.8	16.3	16.0
	-10.0	18.8	18.3	17.8	17.5
	-5.0	21.3	20.8	19.8	19.5
	0.0	23.5	23.0	22.0	21.8
	2.5	24.8	24.0	23.3	23.0
	6.0	25.5	25.0	24.8	24.3
	7.5	27.0	26.5	24.8	24.3
	10.0	28.3	27.5	24.8	24.3
	12.5	29.5	28.8	24.8	24.3
	15.5	30.8	28.8	24.8	24.3
250 (31.5)	-15.0	22.1	21.1	20.5	20.2
	-10.0	23.6	23.0	22.4	22.1
	-5.0	26.8	26.1	24.9	24.6
	0.0	29.6	29.0	27.7	27.4
	2.5	31.2	30.2	29.3	29.0
	6.0	32.1	31.5	31.2	30.6
	7.5	34.0	33.4	31.2	30.6
	10.0	35.6	34.7	31.2	30.6
	12.5	37.2	36.2	31.2	30.6
	15.5	38.7	36.2	31.2	30.6

kcal/h=kW x 860 , BTU/h = kW x 3,412

6-2. Heating capacity with PUMY-P200-250YKMC-C

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
15 (1.9)	-20.0	1.2	1.2	1.1	1.0
	-15.0	1.2	1.2	1.1	1.1
	-10.0	1.3	1.3	1.2	1.2
	-5.0	1.5	1.4	1.3	1.3
	0.0	1.7	1.6	1.5	1.4
	2.5	1.8	1.7	1.6	1.4
	6.0	2.0	1.9	1.6	1.4
	7.5	2.1	2.0	1.6	1.4
	10.0	2.2	2.0	1.6	1.4
	12.5	2.3	2.0	1.6	1.4
	15.5	2.3	2.0	1.6	1.4
20 (2.5)	-20.0	1.6	1.5	1.4	1.4
	-15.0	1.6	1.6	1.5	1.5
	-10.0	1.7	1.7	1.6	1.6
	-5.0	1.9	1.9	1.7	1.7
	0.0	2.2	2.1	2.0	1.9
	2.5	2.4	2.3	2.1	1.9
	6.0	2.6	2.5	2.1	1.9
	7.5	2.7	2.6	2.1	1.9
	10.0	2.9	2.6	2.1	1.9
	12.5	3.0	2.6	2.1	1.9
	15.5	3.0	2.6	2.1	1.9
22 (2.8)	-20.0	1.8	1.7	1.6	1.5
	-15.0	1.8	1.8	1.7	1.6
	-10.0	1.9	1.9	1.8	1.7
	-5.0	2.2	2.1	1.9	1.9
	0.0	2.5	2.4	2.2	2.1
	2.5	2.7	2.5	2.3	2.1
	6.0	2.9	2.8	2.3	2.1
	7.5	3.0	2.9	2.3	2.1
	10.0	3.2	2.9	2.3	2.1
	12.5	3.4	2.9	2.3	2.1
	15.5	3.4	2.9	2.3	2.1
25 (3.2)	-20.0	2.0	2.0	1.8	1.8
	-15.0	2.1	2.0	1.9	1.9
	-10.0	2.2	2.1	2.0	2.0
	-5.0	2.5	2.4	2.2	2.2
	0.0	2.8	2.7	2.6	2.4
	2.5	3.0	2.9	2.6	2.4
	6.0	3.3	3.2	2.6	2.4
	7.5	3.5	3.3	2.6	2.4
	10.0	3.6	3.4	2.6	2.4
	12.5	3.8	3.4	2.6	2.4
	15.5	3.9	3.4	2.6	2.4
28 (3.6)	-20.0	2.3	2.2	2.1	2.0
	-15.0	2.3	2.3	2.1	2.1
	-10.0	2.5	2.4	2.3	2.2
	-5.0	2.8	2.7	2.5	2.4
	0.0	3.2	3.1	2.9	2.7
	2.5	3.4	3.3	3.0	2.7
	6.0	3.7	3.6	3.0	2.7
	7.5	3.9	3.7	3.0	2.7
	10.0	4.1	3.8	3.0	2.7
	12.5	4.3	3.8	3.0	2.7
	15.5	4.4	3.8	3.0	2.7
32 (4.0)	-20.0	2.5	2.4	2.3	2.2
	-15.0	2.6	2.5	2.4	2.3
	-10.0	2.8	2.7	2.5	2.5
	-5.0	3.1	3.0	2.8	2.7
	0.0	3.5	3.4	3.2	3.0
	2.5	3.8	3.6	3.3	3.0
	6.0	4.2	4.0	3.3	3.0
	7.5	4.3	4.1	3.3	3.0
	10.0	4.6	4.2	3.3	3.0
	12.5	4.8	4.2	3.3	3.0
	15.5	4.8	4.2	3.3	3.0
36 (4.5)	-20.0	2.8	2.7	2.6	2.5
	-15.0	2.9	2.8	2.7	2.6
	-10.0	3.1	3.0	2.8	2.8
	-5.0	3.5	3.3	3.1	3.1
	0.0	4.0	3.8	3.6	3.4
	2.5	4.3	4.1	3.7	3.4
	6.0	4.7	4.5	3.7	3.4
	7.5	4.9	4.6	3.7	3.4
	10.0	5.1	4.7	3.7	3.4
	12.5	5.4	4.7	3.7	3.4
	15.5	5.4	4.7	3.7	3.4

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
40 (5.0)	-20.0	3.2	3.1	2.9	2.8
	-15.0	3.3	3.2	3.0	2.9
	-10.0	3.5	3.4	3.2	3.1
	-5.0	3.9	3.7	3.5	3.4
	0.0	4.4	4.3	4.0	3.8
	2.5	4.8	4.6	4.1	3.8
	6.0	5.2	5.0	4.1	3.8
	7.5	5.4	5.2	4.1	3.8
	10.0	5.7	5.3	4.1	3.8
	12.5	6.0	5.3	4.1	3.8
	15.5	6.1	5.3	4.1	3.8
45 (5.6)	-20.0	3.5	3.4	3.2	3.1
	-15.0	3.6	3.5	3.3	3.2
	-10.0	3.9	3.8	3.5	3.5
	-5.0	4.3	4.1	3.9	3.8
	0.0	4.9	4.8	4.5	4.3
	2.5	5.3	5.1	4.6	4.3
	6.0	5.8	5.6	4.6	4.3
	7.5	6.0	5.8	4.6	4.3
	10.0	6.4	5.9	4.6	4.3
	12.5	6.7	5.9	4.6	4.3
	15.5	6.8	5.9	4.6	4.3
50 (6.3)	-20.0	4.0	3.8	3.6	3.5
	-15.0	4.1	4.0	3.7	3.7
	-10.0	4.3	4.2	4.0	3.9
	-5.0	4.9	4.7	4.3	4.3
	0.0	5.5	5.4	5.0	4.8
	2.5	6.0	5.7	5.2	4.8
	6.0	6.6	6.3	5.2	4.8
	7.5	6.8	6.5	5.2	4.8
	10.0	7.2	6.6	5.2	4.8
	12.5	7.6	6.6	5.2	4.8
	15.5	7.6	6.6	5.2	4.8
56 (7.0)	-20.0	4.4	4.3	4.0	3.9
	-15.0	4.6	4.4	4.1	4.1
	-10.0	4.8	4.7	4.4	4.3
	-5.0	5.4	5.2	4.8	4.8
	0.0	6.2	6.0	5.6	5.3
	2.5	6.7	6.4	5.7	5.3
	6.0	7.3	7.0	5.7	5.3
	7.5	7.6	7.2	5.7	5.3
	10.0	8.0	7.4	5.7	5.3
	12.5	8.4	7.4	5.7	5.3
	15.5	8.5	7.4	5.7	5.3
63 (8.0)	-20.0	5.0	4.9	4.6	4.4
	-15.0	5.2	5.0	4.7	4.6
	-10.0	5.5	5.4	5.0	5.0
	-5.0	6.2	5.9	5.5	5.4
	0.0	7.0	6.8	6.4	6.1
	2.5	7.6	7.3	6.6	6.1
	6.0	8.3	8.0	6.6	6.1
	7.5	8.6	8.2	6.6	6.1
	10.0	9.1	8.4	6.6	6.1
	12.5	9.6	8.4	6.6	6.1
	15.5	9.7	8.4	6.6	6.1
71 (9.0)	-20.0	5.7	5.5	5.1	5.0
	-15.0	5.9	5.7	5.3	5.2
	-10.0	6.2	6.0	5.7	5.6
	-5.0	6.9	6.7	6.2	6.1
	0.0	7.9	7.7	7.2	6.8
	2.5	8.6	8.2	7.4	6.8
	6.0	9.4	9.0	7.4	6.8
	7.5	9.7	9.3	7.4	6.8
	10.0	10.3	9.5	7.4	6.8
	12.5	10.8	9.5	7.4	6.8
	15.5	10.9	9.5	7.4	6.8
80 (10.0)	-20.0	6.3	6.1	5.7	5.5
	-15.0	6.5	6.3	5.9	5.8
	-10.0	6.9	6.7	6.3	6.2
	-5.0	7.7	7.4	6.9	6.8
	0.0	8.8	8.5	8.0	7.6
	2.5	9.5	9.1	8.2	7.6
	6.0	10.4	10.0	8.2	7.6
	7.5	10.8	10.3	8.2	7.6
	10.0	11.4	10.5	8.2	7.6
	12.5	12.0	10.5	8.2	7.6
	15.5	12.1	10.5	8.2	7.6

kcal/h=kW x 860 , BTU/h = kW x 3,412

6. Heating [All indoor units]

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
100 (12.5)	-20.0	7.9	7.6	7.1	6.9
	-15.0	8.1	7.9	7.4	7.3
	-10.0	8.6	8.4	7.9	7.8
	-5.0	9.6	9.3	8.6	8.5
	0.0	11.0	10.6	10.0	9.5
	2.5	11.9	11.4	10.3	9.5
	6.0	13.0	12.5	10.3	9.5
	7.5	13.5	12.9	10.3	9.5
	10.0	14.3	13.1	10.3	9.5
	12.5	15.0	13.1	10.3	9.5
	15.5	15.1	13.1	10.3	9.5
125 (16.0)	-20.0	10.1	9.8	9.1	8.8
	-15.0	10.4	10.1	9.4	9.3
	-10.0	11.0	10.7	10.1	9.9
	-5.0	12.3	11.8	11.0	10.9
	0.0	14.1	13.6	12.8	12.2
	2.5	15.2	14.6	13.1	12.2
	6.0	16.6	16.0	13.1	12.2
	7.5	17.3	16.5	13.1	12.2
	10.0	18.2	16.8	13.1	12.2
	12.5	19.2	16.8	13.1	12.2
	15.5	19.4	16.8	13.1	12.2
140 (18.0)	-20.0	11.3	11.0	10.3	9.9
	-15.0	11.7	11.3	10.6	10.4
	-10.0	12.4	12.1	11.3	11.2
	-5.0	13.9	13.3	12.4	12.2
	0.0	15.8	15.3	14.4	13.7
	2.5	17.1	16.4	14.8	13.7
	6.0	18.7	18.0	14.8	13.7
	7.5	19.4	18.5	14.8	13.7
	10.0	20.5	18.9	14.8	13.7
	12.5	21.6	18.9	14.8	13.7
	15.5	21.8	18.9	14.8	13.7

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
200 (25.0)	-20.0	15.8	15.3	14.3	13.8
	-15.0	16.3	15.8	14.8	14.5
	-10.0	17.3	16.8	15.8	15.5
	-5.0	19.3	18.5	17.3	17.0
	0.0	22.0	21.3	20.0	19.0
	2.5	23.8	22.8	20.5	19.0
	6.0	26.0	25.0	20.5	19.0
	7.5	27.0	25.8	20.5	19.0
	10.0	28.5	26.3	20.5	19.0
	12.5	30.0	26.3	20.5	19.0
	15.5	30.3	26.3	20.5	19.0
250 (31.5)	-20.0	19.8	19.2	18.0	17.3
	-15.0	20.5	19.8	18.6	18.3
	-10.0	21.7	21.1	19.8	19.5
	-5.0	24.3	23.3	21.7	21.4
	0.0	27.7	26.8	25.2	23.9
	2.5	29.9	28.7	25.8	23.9
	6.0	32.8	31.5	25.8	23.9
	7.5	34.0	32.4	25.8	23.9
	10.0	35.9	33.1	25.8	23.9
	12.5	37.8	33.1	25.8	23.9
	15.5	38.1	33.1	25.8	23.9

kcal/h=kW x 860 , BTU/h = kW x 3,412

6-3. Heating capacity with PUHY-P300YRJC-A

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
15 (1.9)	-20.0	1.3	1.3	1.3	1.3
	-15.0	1.4	1.4	1.4	1.3
	-10.0	1.6	1.6	1.5	1.3
	-5.0	1.8	1.8	1.5	1.3
	0.0	1.9	1.9	1.5	1.3
	2.5	1.9	1.9	1.5	1.3
	6.0	1.9	1.9	1.5	1.3
	7.5	2.0	1.9	1.5	1.3
	10.0	2.1	1.9	1.5	1.3
	12.5	2.2	1.9	1.5	1.3
	15.5	2.4	1.9	1.5	1.3
20 (2.5)	-20.0	1.7	1.7	1.7	1.7
	-15.0	1.9	1.9	1.8	1.7
	-10.0	2.1	2.0	2.0	1.8
	-5.0	2.3	2.3	2.0	1.8
	0.0	2.5	2.5	2.0	1.8
	2.5	2.5	2.5	2.0	1.8
	6.0	2.5	2.5	2.0	1.8
	7.5	2.6	2.5	2.0	1.8
	10.0	2.7	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	3.1	2.5	2.0	1.8
22 (2.8)	-20.0	1.9	1.9	1.9	1.9
	-15.0	2.1	2.1	2.0	1.9
	-10.0	2.3	2.3	2.2	2.0
	-5.0	2.6	2.6	2.2	2.0
	0.0	2.8	2.8	2.2	2.0
	2.5	2.8	2.8	2.2	2.0
	6.0	2.8	2.8	2.2	2.0
	7.5	2.9	2.8	2.2	2.0
	10.0	3.1	2.8	2.2	2.0
	12.5	3.2	2.8	2.2	2.0
	15.5	3.5	2.8	2.2	2.0
25 (3.2)	-20.0	2.2	2.2	2.2	2.1
	-15.0	2.4	2.4	2.3	2.2
	-10.0	2.6	2.6	2.5	2.2
	-5.0	3.0	3.0	2.6	2.2
	0.0	3.2	3.2	2.6	2.2
	2.5	3.2	3.2	2.6	2.2
	6.0	3.2	3.2	2.6	2.2
	7.5	3.3	3.2	2.6	2.2
	10.0	3.5	3.2	2.6	2.2
	12.5	3.7	3.2	2.6	2.2
	15.5	4.0	3.2	2.6	2.2
28 (3.6)	-20.0	2.5	2.4	2.4	2.4
	-15.0	2.7	2.7	2.6	2.5
	-10.0	3.0	2.9	2.8	2.5
	-5.0	3.4	3.3	2.9	2.5
	0.0	3.6	3.6	2.9	2.5
	2.5	3.6	3.6	2.9	2.5
	6.0	3.6	3.6	2.9	2.5
	7.5	3.7	3.6	2.9	2.5
	10.0	3.9	3.6	2.9	2.5
	12.5	4.2	3.6	2.9	2.5
	15.5	4.5	3.6	2.9	2.5
32 (4.0)	-20.0	2.8	2.7	2.7	2.7
	-15.0	3.0	3.0	2.9	2.8
	-10.0	3.3	3.3	3.2	2.8
	-5.0	3.7	3.7	3.2	2.8
	0.0	4.0	4.0	3.2	2.8
	2.5	4.0	4.0	3.2	2.8
	6.0	4.0	4.0	3.2	2.8
	7.5	4.1	4.0	3.2	2.8
	10.0	4.4	4.0	3.2	2.8
	12.5	4.6	4.0	3.2	2.8
	15.5	5.0	4.0	3.2	2.8
36 (4.5)	-20.0	3.1	3.1	3.0	3.0
	-15.0	3.4	3.4	3.2	3.1
	-10.0	3.7	3.7	3.6	3.2
	-5.0	4.2	4.2	3.6	3.2
	0.0	4.5	4.5	3.6	3.2
	2.5	4.5	4.5	3.6	3.2
	6.0	4.5	4.5	3.6	3.2
	7.5	4.7	4.5	3.6	3.2
	10.0	4.9	4.5	3.6	3.2
	12.5	5.2	4.5	3.6	3.2
	15.5	5.7	4.5	3.6	3.2

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
40 (5.0)	-20.0	3.5	3.4	3.4	3.3
	-15.0	3.7	3.7	3.6	3.5
	-10.0	4.1	4.1	3.9	3.5
	-5.0	4.7	4.6	4.0	3.5
	0.0	5.1	5.0	4.0	3.5
	2.5	5.1	5.0	4.0	3.5
	6.0	5.1	5.0	4.0	3.5
	7.5	5.2	5.0	4.0	3.5
	10.0	5.5	5.0	4.0	3.5
	12.5	5.8	5.0	4.0	3.5
	15.5	6.3	5.0	4.0	3.5
45 (5.6)	-20.0	3.9	3.8	3.8	3.8
	-15.0	4.2	4.2	4.0	3.9
	-10.0	4.6	4.6	4.4	3.9
	-5.0	5.2	5.2	4.5	3.9
	0.0	5.7	5.6	4.5	3.9
	2.5	5.7	5.6	4.5	3.9
	6.0	5.7	5.6	4.5	3.9
	7.5	5.8	5.6	4.5	3.9
	10.0	6.1	5.6	4.5	3.9
	12.5	6.5	5.6	4.5	3.9
	15.5	7.0	5.6	4.5	3.9
50 (6.3)	-20.0	4.4	4.3	4.3	4.2
	-15.0	4.7	4.7	4.5	4.4
	-10.0	5.2	5.2	5.0	4.4
	-5.0	5.9	5.8	5.0	4.4
	0.0	6.4	6.3	5.0	4.4
	2.5	6.4	6.3	5.0	4.4
	6.0	6.4	6.3	5.0	4.4
	7.5	6.5	6.3	5.0	4.4
	10.0	6.9	6.3	5.0	4.4
	12.5	7.3	6.3	5.0	4.4
	15.5	7.9	6.3	5.0	4.4
56 (7.0)	-20.0	4.8	4.8	4.7	4.7
	-15.0	5.2	5.2	5.0	4.9
	-10.0	5.8	5.7	5.5	4.9
	-5.0	6.6	6.5	5.6	4.9
	0.0	7.1	7.0	5.6	4.9
	2.5	7.1	7.0	5.6	4.9
	6.0	7.1	7.0	5.6	4.9
	7.5	7.2	7.0	5.6	4.9
	10.0	7.6	7.0	5.6	4.9
	12.5	8.1	7.0	5.6	4.9
	15.5	8.8	7.0	5.6	4.9
63 (8.0)	-20.0	5.5	5.4	5.4	5.4
	-15.0	6.0	6.0	5.7	5.6
	-10.0	6.6	6.6	6.3	5.6
	-5.0	7.5	7.4	6.4	5.6
	0.0	8.1	8.0	6.4	5.6
	2.5	8.1	8.0	6.4	5.6
	6.0	8.1	8.0	6.4	5.6
	7.5	8.3	8.0	6.4	5.6
	10.0	8.7	8.0	6.4	5.6
	12.5	9.3	8.0	6.4	5.6
	15.5	10.1	8.0	6.4	5.6
71 (9.0)	-20.0	6.2	6.1	6.1	6.0
	-15.0	6.7	6.7	6.5	6.3
	-10.0	7.4	7.4	7.1	6.3
	-5.0	8.4	8.3	7.2	6.3
	0.0	9.1	9.0	7.2	6.3
	2.5	9.1	9.0	7.2	6.3
	6.0	9.1	9.0	7.2	6.3
	7.5	9.3	9.0	7.2	6.3
	10.0	9.8	9.0	7.2	6.3
	12.5	10.4	9.0	7.2	6.3
	15.5	11.3	9.0	7.2	6.3
80 (10.0)	-20.0	6.9	6.8	6.8	6.7
	-15.0	7.5	7.5	7.2	6.9
	-10.0	8.3	8.2	7.9	7.0
	-5.0	9.4	9.3	8.0	7.0
	0.0	10.1	10.0	8.0	7.0
	2.5	10.1	10.0	8.0	7.0
	6.0	10.1	10.0	8.0	7.0
	7.5	10.4	10.0	8.0	7.0
	10.0	10.9	10.0	8.0	7.0
	12.5	11.6	10.0	8.0	7.0
	15.5	12.6	10.0	8.0	7.0

kcal/h=kW x 860 , BTU/h = kW x 3,412

6. Heating [All indoor units]

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
100 (12.5)	-20.0	8.7	8.5	8.5	8.4
	-15.0	9.3	9.3	9.0	8.7
	-10.0	10.3	10.2	9.9	8.8
	-5.0	11.7	11.6	10.0	8.8
	0.0	12.6	12.5	10.0	8.8
	2.5	12.6	12.5	10.0	8.8
	6.0	12.6	12.5	10.0	8.8
	7.5	12.9	12.5	10.0	8.8
	10.0	13.6	12.5	10.0	8.8
	12.5	14.5	12.5	10.0	8.8
	15.5	15.7	12.5	10.0	8.8
125 (16.0)	-20.0	11.1	10.9	10.8	10.7
	-15.0	11.9	11.9	11.5	11.1
	-10.0	13.2	13.1	12.6	11.2
	-5.0	15.0	14.8	12.8	11.2
	0.0	16.2	16.0	12.8	11.2
	2.5	16.2	16.0	12.8	11.2
	6.0	16.2	16.0	12.8	11.2
	7.5	16.6	16.0	12.8	11.2
	10.0	17.4	16.0	12.8	11.2
	12.5	18.5	16.0	12.8	11.2
	15.5	20.1	16.0	12.8	11.2
140 (18.0)	-20.0	12.5	12.2	12.2	12.1
	-15.0	13.4	13.4	12.9	12.5
	-10.0	14.9	14.7	14.2	12.6
	-5.0	16.9	16.7	14.4	12.6
	0.0	18.2	18.0	14.4	12.6
	2.5	18.2	18.0	14.4	12.6
	6.0	18.2	18.0	14.4	12.6
	7.5	18.6	18.0	14.4	12.6
	10.0	19.6	18.0	14.4	12.6
	12.5	20.9	18.0	14.4	12.6
	15.5	22.6	18.0	14.4	12.6

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
200 (25.0)	-20.0	17.3	17.0	16.9	16.7
	-15.0	18.6	18.6	18.0	17.4
	-10.0	20.7	20.5	19.7	17.5
	-5.0	23.4	23.1	20.0	17.5
	0.0	25.3	25.0	20.0	17.5
	2.5	25.3	25.0	20.0	17.5
	6.0	25.3	25.0	20.0	17.5
	7.5	25.9	25.0	20.0	17.5
	10.0	27.3	25.0	20.0	17.5
	12.5	29.0	25.0	20.0	17.5
	15.5	31.4	25.0	20.0	17.5
250 (31.5)	-20.0	21.8	21.4	21.3	21.1
	-15.0	23.5	23.5	22.6	21.9
	-10.0	26.1	25.8	24.9	22.1
	-5.0	29.5	29.1	25.2	22.1
	0.0	31.8	31.5	25.2	22.1
	2.5	31.8	31.5	25.2	22.1
	6.0	31.8	31.5	25.2	22.1
	7.5	32.6	31.5	25.2	22.1
	10.0	34.3	31.5	25.2	22.1
	12.5	36.5	31.5	25.2	22.1
	15.5	39.6	31.5	25.2	22.1

kcal/h=kW x 860 , BTU/h = kW x 3,412

6-4. Heating capacity with PUHY-P350-400YRJC-A

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
15 (1.9)	-20.0	1.2	1.2	1.2	1.2
	-15.0	1.3	1.3	1.3	1.2
	-10.0	1.5	1.5	1.4	1.2
	-5.0	1.6	1.7	1.4	1.2
	0.0	1.8	1.8	1.4	1.2
	2.5	1.9	1.9	1.4	1.2
	6.0	1.9	1.9	1.4	1.2
	7.5	2.0	1.9	1.4	1.2
	10.0	2.1	1.9	1.4	1.2
	12.5	2.2	1.9	1.4	1.2
	15.5	2.2	1.9	1.4	1.2
20 (2.5)	-20.0	1.6	1.6	1.6	1.6
	-15.0	1.7	1.7	1.7	1.6
	-10.0	1.9	1.9	1.9	1.6
	-5.0	2.2	2.2	1.9	1.6
	0.0	2.4	2.4	1.9	1.6
	2.5	2.5	2.5	1.9	1.6
	6.0	2.6	2.5	1.9	1.6
	7.5	2.6	2.5	1.9	1.6
	10.0	2.8	2.5	1.9	1.6
	12.5	2.9	2.5	1.9	1.6
	15.5	2.9	2.5	1.9	1.6
22 (2.8)	-20.0	1.8	1.8	1.8	1.7
	-15.0	2.0	2.0	1.9	1.8
	-10.0	2.1	2.2	2.1	1.8
	-5.0	2.4	2.4	2.1	1.8
	0.0	2.7	2.7	2.1	1.8
	2.5	2.8	2.8	2.1	1.8
	6.0	2.9	2.8	2.1	1.8
	7.5	3.0	2.8	2.1	1.8
	10.0	3.1	2.8	2.1	1.8
	12.5	3.2	2.8	2.1	1.8
	15.5	3.2	2.8	2.1	1.8
25 (3.2)	-20.0	2.1	2.1	2.1	2.0
	-15.0	2.2	2.2	2.2	2.0
	-10.0	2.5	2.5	2.4	2.0
	-5.0	2.8	2.8	2.4	2.0
	0.0	3.1	3.1	2.4	2.0
	2.5	3.2	3.2	2.4	2.0
	6.0	3.3	3.2	2.4	2.0
	7.5	3.4	3.2	2.4	2.0
	10.0	3.5	3.2	2.4	2.0
	12.5	3.7	3.2	2.4	2.0
	15.5	3.7	3.2	2.4	2.0
28 (3.6)	-20.0	2.3	2.3	2.3	2.2
	-15.0	2.5	2.5	2.5	2.3
	-10.0	2.8	2.8	2.7	2.3
	-5.0	3.1	3.1	2.7	2.3
	0.0	3.5	3.5	2.7	2.3
	2.5	3.6	3.6	2.7	2.3
	6.0	3.7	3.6	2.7	2.3
	7.5	3.8	3.6	2.7	2.3
	10.0	4.0	3.6	2.7	2.3
	12.5	4.1	3.6	2.7	2.3
	15.5	4.1	3.6	2.7	2.3
32 (4.0)	-20.0	2.6	2.6	2.6	2.5
	-15.0	2.8	2.8	2.8	2.6
	-10.0	3.1	3.1	3.0	2.6
	-5.0	3.5	3.5	3.0	2.6
	0.0	3.9	3.9	3.0	2.6
	2.5	4.0	4.0	3.0	2.6
	6.0	4.1	4.0	3.0	2.6
	7.5	4.2	4.0	3.0	2.6
	10.0	4.4	4.0	3.0	2.6
	12.5	4.6	4.0	3.0	2.6
	15.5	4.6	4.0	3.0	2.6
36 (4.5)	-20.0	2.9	2.9	2.9	2.8
	-15.0	3.1	3.1	3.1	2.9
	-10.0	3.5	3.5	3.4	2.9
	-5.0	3.9	3.9	3.4	2.9
	0.0	4.4	4.4	3.4	2.9
	2.5	4.5	4.5	3.4	2.9
	6.0	4.6	4.5	3.4	2.9
	7.5	4.7	4.5	3.4	2.9
	10.0	5.0	4.5	3.4	2.9
	12.5	5.2	4.5	3.4	2.9
	15.5	5.2	4.5	3.4	2.9

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
40 (5.0)	-20.0	3.2	3.2	3.2	3.1
	-15.0	3.5	3.5	3.5	3.2
	-10.0	3.8	3.8	3.7	3.2
	-5.0	4.3	4.3	3.7	3.2
	0.0	4.9	4.9	3.7	3.2
	2.5	5.0	5.0	3.7	3.2
	6.0	5.1	5.0	3.7	3.2
	7.5	5.3	5.0	3.7	3.2
	10.0	5.5	5.0	3.7	3.2
	12.5	5.7	5.0	3.7	3.2
	15.5	5.7	5.0	3.7	3.2
45 (5.6)	-20.0	3.6	3.6	3.6	3.5
	-15.0	3.9	3.9	3.9	3.6
	-10.0	4.3	4.3	4.2	3.6
	-5.0	4.9	4.9	4.2	3.6
	0.0	5.4	5.4	4.2	3.6
	2.5	5.6	5.6	4.2	3.6
	6.0	5.7	5.6	4.2	3.6
	7.5	5.9	5.6	4.2	3.6
	10.0	6.2	5.6	4.2	3.6
	12.5	6.4	5.6	4.2	3.6
	15.5	6.4	5.6	4.2	3.6
50 (6.3)	-20.0	4.0	4.1	4.0	3.9
	-15.0	4.4	4.4	4.4	4.0
	-10.0	4.8	4.8	4.7	4.0
	-5.0	5.5	5.5	4.7	4.0
	0.0	6.1	6.1	4.7	4.0
	2.5	6.3	6.3	4.7	4.0
	6.0	6.5	6.3	4.7	4.0
	7.5	6.6	6.3	4.7	4.0
	10.0	7.0	6.3	4.7	4.0
	12.5	7.2	6.3	4.7	4.0
	15.5	7.2	6.3	4.7	4.0
56 (7.0)	-20.0	4.5	4.5	4.5	4.4
	-15.0	4.9	4.9	4.8	4.5
	-10.0	5.4	5.4	5.2	4.5
	-5.0	6.1	6.1	5.2	4.5
	0.0	6.8	6.8	5.2	4.5
	2.5	7.0	7.0	5.2	4.5
	6.0	7.2	7.0	5.2	4.5
	7.5	7.4	7.0	5.2	4.5
	10.0	7.7	7.0	5.2	4.5
	12.5	8.0	7.0	5.2	4.5
	15.5	8.0	7.0	5.2	4.5
63 (8.0)	-20.0	5.1	5.2	5.1	5.0
	-15.0	5.6	5.6	5.5	5.1
	-10.0	6.1	6.2	6.0	5.1
	-5.0	6.9	7.0	6.0	5.1
	0.0	7.8	7.8	6.0	5.1
	2.5	8.0	8.0	6.0	5.1
	6.0	8.2	8.0	6.0	5.1
	7.5	8.4	8.0	6.0	5.1
	10.0	8.8	8.0	6.0	5.1
	12.5	9.2	8.0	6.0	5.1
	15.5	9.2	8.0	6.0	5.1
71 (9.0)	-20.0	5.8	5.8	5.8	5.6
	-15.0	6.3	6.3	6.2	5.8
	-10.0	6.9	6.9	6.7	5.8
	-5.0	7.8	7.8	6.7	5.8
	0.0	8.8	8.8	6.7	5.8
	2.5	9.0	9.0	6.7	5.8
	6.0	9.2	9.0	6.7	5.8
	7.5	9.5	9.0	6.7	5.8
	10.0	9.9	9.0	6.7	5.8
	12.5	10.3	9.0	6.7	5.8
	15.5	10.3	9.0	6.7	5.8
80 (10.0)	-20.0	6.4	6.5	6.4	6.2
	-15.0	7.0	7.0	6.9	6.4
	-10.0	7.7	7.7	7.5	6.4
	-5.0	8.7	8.7	7.5	6.4
	0.0	9.7	9.7	7.5	6.4
	2.5	10.0	10.0	7.5	6.4
	6.0	10.2	10.0	7.5	6.4
	7.5	10.5	10.0	7.5	6.4
	10.0	11.1	10.0	7.5	6.4
	12.5	11.5	10.0	7.5	6.4
	15.5	11.5	10.0	7.5	6.4

kcal/h=kW x 860 , BTU/h = kW x 3,412

6. Heating [All indoor units]

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
100 (12.5)	-20.0	8.0	8.1	8.0	7.8
	-15.0	8.7	8.7	8.6	8.0
	-10.0	9.6	9.6	9.3	8.0
	-5.0	10.8	10.9	9.3	8.0
	0.0	12.2	12.2	9.3	8.0
	2.5	12.5	12.5	9.3	8.0
	6.0	12.8	12.5	9.3	8.0
	7.5	13.2	12.5	9.3	8.0
	10.0	13.8	12.5	9.3	8.0
	12.5	14.3	12.5	9.3	8.0
	15.5	14.3	12.5	9.3	8.0
125 (16.0)	-20.0	10.3	10.3	10.3	9.9
	-15.0	11.1	11.2	11.1	10.2
	-10.0	12.3	12.3	11.9	10.2
	-5.0	13.9	13.9	11.9	10.2
	0.0	15.6	15.6	11.9	10.2
	2.5	16.0	16.0	11.9	10.2
	6.0	16.4	16.0	11.9	10.2
	7.5	16.9	16.0	11.9	10.2
	10.0	17.7	16.0	11.9	10.2
	12.5	18.3	16.0	11.9	10.2
	15.5	18.3	16.0	11.9	10.2
140 (18.0)	-20.0	11.5	11.6	11.5	11.2
	-15.0	12.5	12.6	12.5	11.5
	-10.0	13.8	13.8	13.4	11.5
	-5.0	15.6	15.6	13.4	11.5
	0.0	17.5	17.5	13.4	11.5
	2.5	18.0	18.0	13.4	11.5
	6.0	18.4	18.0	13.4	11.5
	7.5	19.0	18.0	13.4	11.5
	10.0	19.9	18.0	13.4	11.5
	12.5	20.6	18.0	13.4	11.5
	15.5	20.6	18.0	13.4	11.5

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
200 (25.0)	-20.0	16.0	16.1	16.0	15.5
	-15.0	17.4	17.5	17.3	16.0
	-10.0	19.2	19.2	18.6	16.0
	-5.0	21.7	21.7	18.6	16.0
	0.0	24.3	24.3	18.6	16.0
	2.5	25.0	25.0	18.6	16.0
	6.0	25.6	25.0	18.6	16.0
	7.5	26.4	25.0	18.6	16.0
	10.0	27.6	25.0	18.6	16.0
	12.5	28.6	25.0	18.6	16.0
	15.5	28.6	25.0	18.6	16.0
250 (31.5)	-20.0	20.2	20.3	20.2	19.6
	-15.0	21.9	22.0	21.8	20.2
	-10.0	24.2	24.2	23.5	20.2
	-5.0	27.3	27.4	23.5	20.2
	0.0	30.6	30.6	23.5	20.2
	2.5	31.5	31.5	23.5	20.2
	6.0	32.3	31.5	23.5	20.2
	7.5	33.2	31.5	23.5	20.2
	10.0	34.8	31.5	23.5	20.2
	12.5	36.1	31.5	23.5	20.2
	15.5	36.1	31.5	23.5	20.2

kcal/h=kW x 860 , BTU/h = kW x 3,412

6-5. Heating capacity with PUHY-P450YRJC-A

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
15 (1.9)	-20.0	1.2	1.1	1.2	1.1
	-15.0	1.3	1.3	1.2	1.2
	-10.0	1.4	1.4	1.3	1.3
	-5.0	1.6	1.6	1.5	1.3
	0.0	1.8	1.8	1.5	1.3
	2.5	1.8	1.8	1.5	1.3
	6.0	1.9	1.9	1.5	1.3
	7.5	2.0	1.9	1.5	1.3
	10.0	2.1	1.9	1.5	1.3
	12.5	2.2	1.9	1.5	1.3
	15.5	2.2	1.9	1.5	1.3
20 (2.5)	-20.0	1.5	1.5	1.5	1.5
	-15.0	1.7	1.7	1.6	1.6
	-10.0	1.9	1.8	1.8	1.7
	-5.0	2.1	2.1	2.0	1.8
	0.0	2.3	2.3	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.6	2.5	2.0	1.8
	10.0	2.7	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
22 (2.8)	-20.0	1.7	1.7	1.7	1.6
	-15.0	1.9	1.9	1.8	1.8
	-10.0	2.1	2.0	2.0	1.9
	-5.0	2.3	2.3	2.2	2.0
	0.0	2.6	2.6	2.2	2.0
	2.5	2.7	2.7	2.2	2.0
	6.0	2.9	2.8	2.2	2.0
	7.5	2.9	2.8	2.2	2.0
	10.0	3.1	2.8	2.2	2.0
	12.5	3.2	2.8	2.2	2.0
	15.5	3.2	2.8	2.2	2.0
25 (3.2)	-20.0	2.0	1.9	1.9	1.9
	-15.0	2.2	2.1	2.1	2.0
	-10.0	2.4	2.3	2.3	2.2
	-5.0	2.7	2.6	2.5	2.3
	0.0	3.0	3.0	2.5	2.3
	2.5	3.1	3.1	2.5	2.3
	6.0	3.3	3.2	2.5	2.3
	7.5	3.4	3.2	2.5	2.3
	10.0	3.5	3.2	2.5	2.3
	12.5	3.7	3.2	2.5	2.3
	15.5	3.7	3.2	2.5	2.3
28 (3.6)	-20.0	2.2	2.2	2.2	2.1
	-15.0	2.5	2.4	2.3	2.3
	-10.0	2.7	2.6	2.6	2.5
	-5.0	3.0	3.0	2.9	2.6
	0.0	3.3	3.3	2.9	2.6
	2.5	3.5	3.5	2.9	2.6
	6.0	3.7	3.6	2.9	2.6
	7.5	3.8	3.6	2.9	2.6
	10.0	4.0	3.6	2.9	2.6
	12.5	4.1	3.6	2.9	2.6
	15.5	4.2	3.6	2.9	2.6
32 (4.0)	-20.0	2.5	2.4	2.4	2.4
	-15.0	2.7	2.7	2.6	2.5
	-10.0	3.0	2.9	2.8	2.8
	-5.0	3.3	3.3	3.2	2.8
	0.0	3.7	3.7	3.2	2.8
	2.5	3.9	3.9	3.2	2.8
	6.0	4.1	4.0	3.2	2.8
	7.5	4.2	4.0	3.2	2.8
	10.0	4.4	4.0	3.2	2.8
	12.5	4.6	4.0	3.2	2.8
	15.5	4.6	4.0	3.2	2.8
36 (4.5)	-20.0	2.8	2.7	2.7	2.7
	-15.0	3.1	3.0	2.9	2.8
	-10.0	3.4	3.3	3.2	3.1
	-5.0	3.7	3.7	3.6	3.2
	0.0	4.2	4.1	3.6	3.2
	2.5	4.4	4.4	3.6	3.2
	6.0	4.6	4.5	3.6	3.2
	7.5	4.7	4.5	3.6	3.2
	10.0	4.9	4.5	3.6	3.2
	12.5	5.2	4.5	3.6	3.2
	15.5	5.2	4.5	3.6	3.2

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
40 (5.0)	-20.0	3.1	3.0	3.0	2.9
	-15.0	3.4	3.3	3.2	3.1
	-10.0	3.8	3.6	3.6	3.5
	-5.0	4.2	4.1	4.0	3.5
	0.0	4.6	4.6	4.0	3.5
	2.5	4.9	4.9	4.0	3.5
	6.0	5.1	5.0	4.0	3.5
	7.5	5.3	5.0	4.0	3.5
	10.0	5.5	5.0	4.0	3.5
	12.5	5.7	5.0	4.0	3.5
	15.5	5.8	5.0	4.0	3.5
45 (5.6)	-20.0	3.4	3.4	3.4	3.3
	-15.0	3.8	3.7	3.6	3.5
	-10.0	4.2	4.1	4.0	3.9
	-5.0	4.7	4.6	4.4	4.0
	0.0	5.2	5.2	4.4	4.0
	2.5	5.4	5.4	4.4	4.0
	6.0	5.7	5.6	4.4	4.0
	7.5	5.9	5.6	4.4	4.0
	10.0	6.1	5.6	4.4	4.0
	12.5	6.4	5.6	4.4	4.0
	15.5	6.5	5.6	4.4	4.0
50 (6.3)	-20.0	3.9	3.8	3.8	3.7
	-15.0	4.3	4.2	4.1	4.0
	-10.0	4.7	4.6	4.5	4.4
	-5.0	5.2	5.2	5.0	4.5
	0.0	5.8	5.8	5.0	4.5
	2.5	6.1	6.1	5.0	4.5
	6.0	6.4	6.3	5.0	4.5
	7.5	6.6	6.3	5.0	4.5
	10.0	6.9	6.3	5.0	4.5
	12.5	7.2	6.3	5.0	4.5
	15.5	7.3	6.3	5.0	4.5
56 (7.0)	-20.0	4.3	4.2	4.2	4.1
	-15.0	4.8	4.6	4.5	4.4
	-10.0	5.3	5.1	5.0	4.8
	-5.0	5.8	5.8	5.5	5.0
	0.0	6.5	6.5	5.6	5.0
	2.5	6.8	6.8	5.6	5.0
	6.0	7.2	7.0	5.6	5.0
	7.5	7.4	7.0	5.6	5.0
	10.0	7.7	7.0	5.6	5.0
	12.5	8.0	7.0	5.6	5.0
	15.5	8.1	7.0	5.6	5.0
63 (8.0)	-20.0	4.9	4.8	4.8	4.7
	-15.0	5.5	5.3	5.2	5.0
	-10.0	6.0	5.8	5.7	5.5
	-5.0	6.7	6.6	6.3	5.7
	0.0	7.4	7.4	6.3	5.7
	2.5	7.8	7.8	6.3	5.7
	6.0	8.2	8.0	6.3	5.7
	7.5	8.4	8.0	6.3	5.7
	10.0	8.8	8.0	6.3	5.7
	12.5	9.2	8.0	6.3	5.7
	15.5	9.2	8.0	6.3	5.7
71 (9.0)	-20.0	5.5	5.4	5.4	5.3
	-15.0	6.1	6.0	5.8	5.7
	-10.0	6.8	6.6	6.4	6.2
	-5.0	7.5	7.4	7.1	6.4
	0.0	8.3	8.3	7.1	6.4
	2.5	8.7	8.7	7.1	6.4
	6.0	9.2	9.0	7.1	6.4
	7.5	9.5	9.0	7.1	6.4
	10.0	9.9	9.0	7.1	6.4
	12.5	10.3	9.0	7.1	6.4
	15.5	10.4	9.0	7.1	6.4
80 (10.0)	-20.0	6.2	6.0	6.1	5.9
	-15.0	6.8	6.6	6.5	6.3
	-10.0	7.5	7.3	7.1	6.9
	-5.0	8.3	8.3	7.9	7.1
	0.0	9.2	9.2	7.9	7.1
	2.5	9.7	9.7	7.9	7.1
	6.0	10.2	10.0	7.9	7.1
	7.5	10.5	10.0	7.9	7.1
	10.0	11.0	10.0	7.9	7.1
	12.5	11.5	10.0	7.9	7.1
	15.5	11.5	10.0	7.9	7.1

kcal/h=kW x 860 , BTU/h = kW x 3,412

6. Heating [All indoor units]

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
100 (12.5)	-20.0	7.7	7.5	7.6	7.4
	-15.0	8.5	8.3	8.1	7.9
	-10.0	9.4	9.1	8.9	8.7
	-5.0	10.4	10.3	9.9	8.9
	0.0	11.5	11.5	9.9	8.9
	2.5	12.1	12.1	9.9	8.9
	6.0	12.8	12.5	9.9	8.9
	7.5	13.1	12.5	9.9	8.9
	10.0	13.7	12.5	9.9	8.9
	12.5	14.3	12.5	9.9	8.9
	15.5	14.4	12.5	9.9	8.9
125 (16.0)	-20.0	9.9	9.6	9.7	9.4
	-15.0	10.9	10.6	10.4	10.1
	-10.0	12.0	11.7	11.4	11.1
	-5.0	13.3	13.2	12.7	11.3
	0.0	14.8	14.8	12.7	11.3
	2.5	15.5	15.5	12.7	11.3
	6.0	16.3	16.0	12.7	11.3
	7.5	16.8	16.0	12.7	11.3
	10.0	17.6	16.0	12.7	11.3
	12.5	18.4	16.0	12.7	11.3
	15.5	18.5	16.0	12.7	11.3
140 (18.0)	-20.0	11.1	10.8	10.9	10.6
	-15.0	12.3	11.9	11.7	11.3
	-10.0	13.5	13.1	12.8	12.5
	-5.0	15.0	14.9	14.3	12.8
	0.0	16.6	16.6	14.3	12.8
	2.5	17.5	17.5	14.3	12.8
	6.0	18.4	18.0	14.3	12.8
	7.5	18.9	18.0	14.3	12.8
	10.0	19.8	18.0	14.3	12.8
	12.5	20.7	18.0	14.3	12.8
	15.5	20.8	18.0	14.3	12.8

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
200 (25.0)	-20.0	15.4	15.0	15.1	14.7
	-15.0	17.1	16.6	16.2	15.7
	-10.0	18.8	18.2	17.8	17.3
	-5.0	20.8	20.6	19.8	17.7
	0.0	23.1	23.0	19.8	17.7
	2.5	24.3	24.3	19.8	17.7
	6.0	25.5	25.0	19.8	17.7
	7.5	26.3	25.0	19.8	17.7
	10.0	27.4	25.0	19.8	17.7
	12.5	28.7	25.0	19.8	17.7
	15.5	28.9	25.0	19.8	17.7
250 (31.5)	-20.0	19.4	18.9	19.1	18.6
	-15.0	21.5	20.9	20.4	19.8
	-10.0	23.6	23.0	22.4	21.8
	-5.0	26.2	26.0	24.9	22.3
	0.0	29.1	29.0	25.0	22.3
	2.5	30.6	30.6	25.0	22.3
	6.0	32.2	31.5	25.0	22.3
	7.5	33.1	31.5	25.0	22.3
	10.0	34.6	31.5	25.0	22.3
	12.5	36.1	31.5	25.0	22.3
	15.5	36.4	31.5	25.0	22.3

kcal/h=kW x 860 , BTU/h = kW x 3,412

6-6. Heating capacity with PUHY-P300YRJC-A "COP priority mode"

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
15 (1.9)	-20.0	1.0	1.0	1.0	0.9
	-15.0	1.2	1.2	1.1	1.1
	-10.0	1.4	1.4	1.3	1.3
	-5.0	1.6	1.6	1.5	1.3
	0.0	1.8	1.8	1.5	1.3
	2.5	1.9	1.9	1.5	1.3
	6.0	2.0	1.9	1.5	1.3
	7.5	2.0	1.9	1.5	1.3
	10.0	2.2	1.9	1.5	1.3
	12.5	2.3	1.9	1.5	1.3
	15.5	2.4	1.9	1.5	1.3
20 (2.5)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.1	2.1	2.0	1.8
	0.0	2.4	2.3	2.0	1.8
	2.5	2.5	2.5	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.7	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	3.0	2.5	2.0	1.8
	15.5	3.2	2.5	2.0	1.8
22 (2.8)	-20.0	1.4	1.4	1.4	1.4
	-15.0	1.7	1.7	1.7	1.7
	-10.0	2.0	2.0	2.0	1.9
	-5.0	2.3	2.3	2.2	2.0
	0.0	2.6	2.6	2.2	2.0
	2.5	2.8	2.8	2.2	2.0
	6.0	2.9	2.8	2.2	2.0
	7.5	3.0	2.8	2.2	2.0
	10.0	3.2	2.8	2.2	2.0
	12.5	3.4	2.8	2.2	2.0
	15.5	3.6	2.8	2.2	2.0
25 (3.2)	-20.0	1.6	1.6	1.6	1.6
	-15.0	2.0	2.0	1.9	1.9
	-10.0	2.3	2.3	2.2	2.2
	-5.0	2.7	2.6	2.6	2.2
	0.0	3.0	3.0	2.6	2.2
	2.5	3.2	3.2	2.6	2.2
	6.0	3.3	3.2	2.6	2.2
	7.5	3.4	3.2	2.6	2.2
	10.0	3.6	3.2	2.6	2.2
	12.5	3.9	3.2	2.6	2.2
	15.5	4.1	3.2	2.6	2.2
28 (3.6)	-20.0	1.8	1.8	1.8	1.8
	-15.0	2.2	2.2	2.2	2.1
	-10.0	2.6	2.6	2.5	2.5
	-5.0	3.0	3.0	2.9	2.5
	0.0	3.4	3.4	2.9	2.5
	2.5	3.6	3.6	2.9	2.5
	6.0	3.7	3.6	2.9	2.5
	7.5	3.9	3.6	2.9	2.5
	10.0	4.1	3.6	2.9	2.5
	12.5	4.3	3.6	2.9	2.5
	15.5	4.6	3.6	2.9	2.5
32 (4.0)	-20.0	2.0	2.0	2.0	2.0
	-15.0	2.5	2.4	2.4	2.4
	-10.0	2.9	2.9	2.8	2.7
	-5.0	3.3	3.3	3.2	2.8
	0.0	3.8	3.7	3.2	2.8
	2.5	4.0	4.0	3.2	2.8
	6.0	4.1	4.0	3.2	2.8
	7.5	4.3	4.0	3.2	2.8
	10.0	4.6	4.0	3.2	2.8
	12.5	4.8	4.0	3.2	2.8
	15.5	5.1	4.0	3.2	2.8
36 (4.5)	-20.0	2.3	2.3	2.3	2.2
	-15.0	2.8	2.7	2.7	2.7
	-10.0	3.3	3.2	3.1	3.1
	-5.0	3.8	3.7	3.6	3.2
	0.0	4.3	4.2	3.6	3.2
	2.5	4.5	4.5	3.6	3.2
	6.0	4.7	4.5	3.6	3.2
	7.5	4.8	4.5	3.6	3.2
	10.0	5.1	4.5	3.6	3.2
	12.5	5.4	4.5	3.6	3.2
	15.5	5.8	4.5	3.6	3.2

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
40 (5.0)	-20.0	2.6	2.5	2.5	2.5
	-15.0	3.1	3.1	3.0	3.0
	-10.0	3.6	3.6	3.5	3.4
	-5.0	4.2	4.1	4.0	3.5
	0.0	4.7	4.7	4.0	3.5
	2.5	5.0	4.9	4.0	3.5
	6.0	5.2	5.0	4.0	3.5
	7.5	5.4	5.0	4.0	3.5
	10.0	5.7	5.0	4.0	3.5
	12.5	6.0	5.0	4.0	3.5
	15.5	6.4	5.0	4.0	3.5
45 (5.6)	-20.0	2.9	2.8	2.8	2.8
	-15.0	3.5	3.4	3.4	3.3
	-10.0	4.1	4.0	3.9	3.8
	-5.0	4.7	4.6	4.5	3.9
	0.0	5.3	5.2	4.5	3.9
	2.5	5.6	5.5	4.5	3.9
	6.0	5.8	5.6	4.5	3.9
	7.5	6.0	5.6	4.5	3.9
	10.0	6.4	5.6	4.5	3.9
	12.5	6.7	5.6	4.5	3.9
	15.5	7.2	5.6	4.5	3.9
50 (6.3)	-20.0	3.2	3.2	3.2	3.1
	-15.0	3.9	3.8	3.8	3.7
	-10.0	4.6	4.5	4.4	4.3
	-5.0	5.3	5.2	5.0	4.4
	0.0	6.0	5.9	5.0	4.4
	2.5	6.3	6.2	5.0	4.4
	6.0	6.5	6.3	5.0	4.4
	7.5	6.8	6.3	5.0	4.4
	10.0	7.2	6.3	5.0	4.4
	12.5	7.6	6.3	5.0	4.4
	15.5	8.1	6.3	5.0	4.4
56 (7.0)	-20.0	3.6	3.5	3.5	3.5
	-15.0	4.3	4.3	4.2	4.1
	-10.0	5.1	5.0	4.9	4.8
	-5.0	5.9	5.8	5.6	4.9
	0.0	6.6	6.5	5.6	4.9
	2.5	7.0	6.9	5.6	4.9
	6.0	7.3	7.0	5.6	4.9
	7.5	7.5	7.0	5.6	4.9
	10.0	8.0	7.0	5.6	4.9
	12.5	8.4	7.0	5.6	4.9
	15.5	9.0	7.0	5.6	4.9
63 (8.0)	-20.0	4.1	4.0	4.0	4.0
	-15.0	5.0	4.9	4.8	4.7
	-10.0	5.8	5.7	5.6	5.5
	-5.0	6.7	6.6	6.4	5.6
	0.0	7.6	7.5	6.4	5.6
	2.5	8.0	7.9	6.4	5.6
	6.0	8.3	8.0	6.4	5.6
	7.5	8.6	8.0	6.4	5.6
	10.0	9.1	8.0	6.4	5.6
	12.5	9.6	8.0	6.4	5.6
	15.5	10.3	8.0	6.4	5.6
71 (9.0)	-20.0	4.6	4.5	4.5	4.5
	-15.0	5.6	5.5	5.4	5.3
	-10.0	6.6	6.5	6.3	6.2
	-5.0	7.5	7.4	7.2	6.3
	0.0	8.5	8.4	7.2	6.3
	2.5	9.0	8.9	7.2	6.3
	6.0	9.3	9.0	7.2	6.3
	7.5	9.7	9.0	7.2	6.3
	10.0	10.3	9.0	7.2	6.3
	12.5	10.8	9.0	7.2	6.3
	15.5	11.5	9.0	7.2	6.3
80 (10.0)	-20.0	5.1	5.0	5.0	5.0
	-15.0	6.2	6.1	6.0	5.9
	-10.0	7.3	7.2	7.0	6.8
	-5.0	8.4	8.3	8.0	7.0
	0.0	9.5	9.4	8.0	7.0
	2.5	10.0	9.9	8.0	7.0
	6.0	10.4	10.0	8.0	7.0
	7.5	10.7	10.0	8.0	7.0
	10.0	11.4	10.0	8.0	7.0
	12.5	12.0	10.0	8.0	7.0
	15.5	12.8	10.0	8.0	7.0

kcal/h=kW x 860 , BTU/h = kW x 3,412

6. Heating [All indoor units]

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
100 (12.5)	-20.0	6.4	6.3	6.3	6.2
	-15.0	7.8	7.6	7.5	7.4
	-10.0	9.1	9.0	8.7	8.6
	-5.0	10.5	10.3	10.0	8.8
	0.0	11.8	11.7	10.0	8.8
	2.5	12.5	12.4	10.0	8.8
	6.0	12.9	12.5	10.0	8.8
	7.5	13.4	12.5	10.0	8.8
	10.0	14.2	12.5	10.0	8.8
	12.5	15.1	12.5	10.0	8.8
	15.5	16.0	12.5	10.0	8.8
125 (16.0)	-20.0	8.2	8.0	8.0	7.9
	-15.0	9.9	9.8	9.6	9.4
	-10.0	11.7	11.5	11.2	11.0
	-5.0	13.4	13.2	12.8	11.2
	0.0	15.1	15.0	12.8	11.2
	2.5	16.0	15.8	12.8	11.2
	6.0	16.6	16.0	12.8	11.2
	7.5	17.2	16.0	12.8	11.2
	10.0	18.2	16.0	12.8	11.2
	12.5	19.3	16.0	12.8	11.2
	15.5	20.5	16.0	12.8	11.2
140 (18.0)	-20.0	9.2	9.0	9.0	8.9
	-15.0	11.2	11.0	10.8	10.6
	-10.0	13.1	12.9	12.6	12.3
	-5.0	15.1	14.9	14.4	12.6
	0.0	17.0	16.8	14.4	12.6
	2.5	18.0	17.8	14.4	12.6
	6.0	18.6	18.0	14.4	12.6
	7.5	19.3	18.0	14.4	12.6
	10.0	20.5	18.0	14.4	12.6
	12.5	21.7	18.0	14.4	12.6
	15.5	23.1	18.0	14.4	12.6

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
200 (25.0)	-20.0	12.8	12.6	12.5	12.4
	-15.0	15.5	15.3	15.0	14.8
	-10.0	18.2	18.0	17.5	17.1
	-5.0	20.9	20.7	20.0	17.5
	0.0	23.6	23.4	20.0	17.5
	2.5	25.0	24.7	20.0	17.5
	6.0	25.9	25.0	20.0	17.5
	7.5	26.9	25.0	20.0	17.5
	10.0	28.5	25.0	20.0	17.5
	12.5	30.1	25.0	20.0	17.5
	15.5	32.1	25.0	20.0	17.5
250 (31.5)	-20.0	16.1	15.8	15.8	15.6
	-15.0	19.5	19.2	18.9	18.6
	-10.0	22.9	22.6	22.0	21.6
	-5.0	26.4	26.0	25.2	22.1
	0.0	29.8	29.5	25.2	22.1
	2.5	31.5	31.2	25.2	22.1
	6.0	32.6	31.5	25.2	22.1
	7.5	33.9	31.5	25.2	22.1
	10.0	35.9	31.5	25.2	22.1
	12.5	37.9	31.5	25.2	22.1
	15.5	40.4	31.5	25.2	22.1

kcal/h=kW x 860 , BTU/h = kW x 3,412

6-7. Heating capacity with PUHY-P350-400YRJC-A "COP priority mode"

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
15 (1.9)	-20.0	0.9	1.0	1.0	0.9
	-15.0	1.1	1.1	1.1	1.1
	-10.0	1.3	1.3	1.3	1.2
	-5.0	1.5	1.5	1.4	1.2
	0.0	1.7	1.7	1.4	1.2
	2.5	1.8	1.8	1.4	1.2
	6.0	1.9	1.9	1.4	1.2
	7.5	2.0	1.9	1.4	1.2
	10.0	2.1	1.9	1.4	1.2
	12.5	2.2	1.9	1.4	1.2
	15.5	2.2	1.9	1.4	1.2
20 (2.5)	-20.0	1.2	1.3	1.3	1.2
	-15.0	1.5	1.5	1.5	1.5
	-10.0	1.8	1.7	1.7	1.6
	-5.0	2.0	2.0	1.9	1.6
	0.0	2.3	2.2	1.9	1.6
	2.5	2.4	2.3	1.9	1.6
	6.0	2.6	2.5	1.9	1.6
	7.5	2.6	2.5	1.9	1.6
	10.0	2.8	2.5	1.9	1.6
	12.5	2.9	2.5	1.9	1.6
	15.5	2.9	2.5	1.9	1.6
22 (2.8)	-20.0	1.4	1.4	1.4	1.4
	-15.0	1.7	1.7	1.7	1.6
	-10.0	2.0	1.9	1.9	1.8
	-5.0	2.2	2.2	2.1	1.8
	0.0	2.5	2.5	2.1	1.8
	2.5	2.7	2.6	2.1	1.8
	6.0	2.9	2.8	2.1	1.8
	7.5	3.0	2.8	2.1	1.8
	10.0	3.1	2.8	2.1	1.8
	12.5	3.2	2.8	2.1	1.8
	15.5	3.2	2.8	2.1	1.8
25 (3.2)	-20.0	1.6	1.6	1.6	1.6
	-15.0	1.9	1.9	1.9	1.9
	-10.0	2.2	2.2	2.2	2.0
	-5.0	2.6	2.5	2.4	2.0
	0.0	2.9	2.8	2.4	2.0
	2.5	3.1	3.0	2.4	2.0
	6.0	3.3	3.2	2.4	2.0
	7.5	3.4	3.2	2.4	2.0
	10.0	3.5	3.2	2.4	2.0
	12.5	3.7	3.2	2.4	2.0
	15.5	3.7	3.2	2.4	2.0
28 (3.6)	-20.0	1.8	1.8	1.8	1.8
	-15.0	2.2	2.2	2.2	2.1
	-10.0	2.5	2.5	2.5	2.3
	-5.0	2.9	2.8	2.7	2.3
	0.0	3.3	3.2	2.7	2.3
	2.5	3.4	3.4	2.7	2.3
	6.0	3.7	3.6	2.7	2.3
	7.5	3.8	3.6	2.7	2.3
	10.0	4.0	3.6	2.7	2.3
	12.5	4.1	3.6	2.7	2.3
	15.5	4.1	3.6	2.7	2.3
32 (4.0)	-20.0	2.0	2.0	2.0	2.0
	-15.0	2.4	2.4	2.4	2.3
	-10.0	2.8	2.8	2.7	2.6
	-5.0	3.2	3.2	3.0	2.6
	0.0	3.6	3.5	3.0	2.6
	2.5	3.8	3.7	3.0	2.6
	6.0	4.1	4.0	3.0	2.6
	7.5	4.2	4.0	3.0	2.6
	10.0	4.4	4.0	3.0	2.6
	12.5	4.6	4.0	3.0	2.6
	15.5	4.6	4.0	3.0	2.6
36 (4.5)	-20.0	2.2	2.3	2.3	2.2
	-15.0	2.7	2.7	2.7	2.6
	-10.0	3.2	3.1	3.1	2.9
	-5.0	3.6	3.6	3.4	2.9
	0.0	4.1	4.0	3.4	2.9
	2.5	4.3	4.2	3.4	2.9
	6.0	4.6	4.5	3.4	2.9
	7.5	4.7	4.5	3.4	2.9
	10.0	5.0	4.5	3.4	2.9
	12.5	5.2	4.5	3.4	2.9
	15.5	5.2	4.5	3.4	2.9

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
40 (5.0)	-20.0	2.5	2.5	2.6	2.4
	-15.0	3.0	3.0	3.0	2.9
	-10.0	3.5	3.5	3.4	3.2
	-5.0	4.0	3.9	3.7	3.2
	0.0	4.5	4.4	3.7	3.2
	2.5	4.8	4.7	3.7	3.2
	6.0	5.1	5.0	3.7	3.2
	7.5	5.3	5.0	3.7	3.2
	10.0	5.5	5.0	3.7	3.2
	12.5	5.7	5.0	3.7	3.2
	15.5	5.7	5.0	3.7	3.2
45 (5.6)	-20.0	2.8	2.8	2.9	2.7
	-15.0	3.4	3.4	3.3	3.3
	-10.0	3.9	3.9	3.8	3.6
	-5.0	4.5	4.4	4.2	3.6
	0.0	5.1	5.0	4.2	3.6
	2.5	5.3	5.2	4.2	3.6
	6.0	5.7	5.6	4.2	3.6
	7.5	5.9	5.6	4.2	3.6
	10.0	6.2	5.6	4.2	3.6
	12.5	6.4	5.6	4.2	3.6
	15.5	6.4	5.6	4.2	3.6
50 (6.3)	-20.0	3.1	3.2	3.2	3.1
	-15.0	3.8	3.8	3.8	3.7
	-10.0	4.4	4.4	4.3	4.0
	-5.0	5.1	5.0	4.7	4.0
	0.0	5.7	5.6	4.7	4.0
	2.5	6.0	5.9	4.7	4.0
	6.0	6.5	6.3	4.7	4.0
	7.5	6.6	6.3	4.7	4.0
	10.0	7.0	6.3	4.7	4.0
	12.5	7.2	6.3	4.7	4.0
	15.5	7.2	6.3	4.7	4.0
56 (7.0)	-20.0	3.5	3.5	3.6	3.4
	-15.0	4.2	4.2	4.2	4.1
	-10.0	4.9	4.9	4.8	4.5
	-5.0	5.6	5.5	5.2	4.5
	0.0	6.3	6.2	5.2	4.5
	2.5	6.7	6.5	5.2	4.5
	6.0	7.2	7.0	5.2	4.5
	7.5	7.4	7.0	5.2	4.5
	10.0	7.7	7.0	5.2	4.5
	12.5	8.0	7.0	5.2	4.5
	15.5	8.0	7.0	5.2	4.5
63 (8.0)	-20.0	4.0	4.0	4.1	3.9
	-15.0	4.8	4.8	4.8	4.7
	-10.0	5.6	5.6	5.5	5.1
	-5.0	6.4	6.3	6.0	5.1
	0.0	7.2	7.1	6.0	5.1
	2.5	7.6	7.5	6.0	5.1
	6.0	8.2	8.0	6.0	5.1
	7.5	8.4	8.0	6.0	5.1
	10.0	8.8	8.0	6.0	5.1
	12.5	9.2	8.0	6.0	5.1
	15.5	9.2	8.0	6.0	5.1
71 (9.0)	-20.0	4.5	4.5	4.6	4.4
	-15.0	5.4	5.4	5.4	5.2
	-10.0	6.3	6.2	6.2	5.8
	-5.0	7.2	7.1	6.7	5.8
	0.0	8.1	8.0	6.7	5.8
	2.5	8.6	8.4	6.7	5.8
	6.0	9.2	9.0	6.7	5.8
	7.5	9.5	9.0	6.7	5.8
	10.0	9.9	9.0	6.7	5.8
	12.5	10.3	9.0	6.7	5.8
	15.5	10.3	9.0	6.7	5.8
80 (10.0)	-20.0	5.0	5.0	5.1	4.9
	-15.0	6.0	6.0	6.0	5.8
	-10.0	7.0	6.9	6.8	6.4
	-5.0	8.0	7.9	7.4	6.4
	0.0	9.0	8.9	7.5	6.4
	2.5	9.5	9.3	7.5	6.4
	6.0	10.2	10.0	7.5	6.4
	7.5	10.5	10.0	7.5	6.4
	10.0	11.0	10.0	7.5	6.4
	12.5	11.5	10.0	7.5	6.4
	15.5	11.5	10.0	7.5	6.4

kcal/h=kW x 860 , BTU/h = kW x 3,412

6. Heating [All indoor units]

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
100 (12.5)	-20.0	6.2	6.3	6.4	6.1
	-15.0	7.5	7.5	7.5	7.3
	-10.0	8.8	8.7	8.6	8.0
	-5.0	10.0	9.9	9.3	8.0
	0.0	11.3	11.1	9.3	8.0
	2.5	11.9	11.7	9.3	8.0
	6.0	12.8	12.5	9.3	8.0
	7.5	13.2	12.5	9.3	8.0
	10.0	13.8	12.5	9.3	8.0
	12.5	14.3	12.5	9.3	8.0
	15.5	14.3	12.5	9.3	8.0
125 (16.0)	-20.0	8.0	8.0	8.2	7.8
	-15.0	9.6	9.6	9.6	9.3
	-10.0	11.2	11.1	10.9	10.2
	-5.0	12.8	12.6	11.9	10.2
	0.0	14.4	14.2	11.9	10.2
	2.5	15.3	14.9	11.9	10.2
	6.0	16.4	16.0	11.9	10.2
	7.5	16.9	16.0	11.9	10.2
	10.0	17.7	16.0	11.9	10.2
	12.5	18.3	16.0	11.9	10.2
	15.5	18.3	16.0	12.0	10.2
140 (18.0)	-20.0	9.0	9.1	9.2	8.8
	-15.0	10.8	10.8	10.8	10.5
	-10.0	12.6	12.5	12.3	11.5
	-5.0	14.4	14.2	13.4	11.5
	0.0	16.3	15.9	13.4	11.5
	2.5	17.2	16.8	13.4	11.5
	6.0	18.4	18.0	13.4	11.5
	7.5	19.0	18.0	13.4	11.5
	10.0	19.9	18.0	13.4	11.5
	12.5	20.6	18.0	13.4	11.5
	15.5	20.6	18.0	13.4	11.5

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
200 (25.0)	-20.0	12.5	12.6	12.8	12.2
	-15.0	15.0	15.0	15.0	14.6
	-10.0	17.5	17.4	17.1	16.0
	-5.0	20.0	19.7	18.6	16.0
	0.0	22.6	22.1	18.6	16.0
	2.5	23.8	23.3	18.6	16.0
	6.0	25.6	25.0	18.6	16.0
	7.5	26.4	25.0	18.7	16.0
	10.0	27.6	25.0	18.7	16.0
	12.5	28.6	25.0	18.7	16.0
	15.5	28.6	25.0	18.7	16.0
250 (31.5)	-20.0	15.7	15.8	16.1	15.4
	-15.0	18.9	18.9	18.8	18.4
	-10.0	22.1	21.9	21.5	20.2
	-5.0	25.3	24.9	23.5	20.2
	0.0	28.4	27.9	23.5	20.2
	2.5	30.0	29.4	23.5	20.2
	6.0	32.3	31.5	23.5	20.2
	7.5	33.2	31.5	23.5	20.2
	10.0	34.8	31.5	23.5	20.2
	12.5	36.1	31.5	23.5	20.2
	15.5	36.1	31.5	23.5	20.2

kcal/h=kW x 860 , BTU/h = kW x 3,412

6-8. Heating capacity with PUHY-P450YRJC-A "COP priority mode"

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
15 (1.9)	-20.0	1.0	1.0	1.0	0.9
	-15.0	1.2	1.2	1.1	1.1
	-10.0	1.4	1.3	1.3	1.3
	-5.0	1.6	1.5	1.5	1.3
	0.0	1.7	1.7	1.5	1.3
	2.5	1.8	1.8	1.5	1.3
	6.0	2.0	1.9	1.5	1.3
	7.5	2.0	1.9	1.5	1.3
	10.0	2.1	1.9	1.5	1.3
	12.5	2.2	1.9	1.5	1.3
	15.5	2.2	1.9	1.5	1.3
20 (2.5)	-20.0	1.3	1.3	1.3	1.2
	-15.0	1.6	1.5	1.5	1.5
	-10.0	1.8	1.8	1.7	1.7
	-5.0	2.0	2.0	1.9	1.8
	0.0	2.3	2.2	2.0	1.8
	2.5	2.4	2.4	2.0	1.8
	6.0	2.6	2.5	2.0	1.8
	7.5	2.6	2.5	2.0	1.8
	10.0	2.8	2.5	2.0	1.8
	12.5	2.9	2.5	2.0	1.8
	15.5	2.9	2.5	2.0	1.8
22 (2.8)	-20.0	1.5	1.4	1.4	1.4
	-15.0	1.8	1.7	1.7	1.6
	-10.0	2.0	2.0	1.9	1.9
	-5.0	2.3	2.2	2.1	2.0
	0.0	2.6	2.5	2.2	2.0
	2.5	2.7	2.6	2.2	2.0
	6.0	2.9	2.8	2.2	2.0
	7.5	3.0	2.8	2.2	2.0
	10.0	3.1	2.8	2.2	2.0
	12.5	3.2	2.8	2.2	2.0
	15.5	3.2	2.8	2.2	2.0
25 (3.2)	-20.0	1.7	1.6	1.6	1.6
	-15.0	2.0	2.0	1.9	1.9
	-10.0	2.3	2.3	2.2	2.1
	-5.0	2.6	2.6	2.4	2.3
	0.0	2.9	2.9	2.5	2.3
	2.5	3.1	3.0	2.5	2.3
	6.0	3.3	3.2	2.5	2.3
	7.5	3.4	3.2	2.5	2.3
	10.0	3.5	3.2	2.5	2.3
	12.5	3.7	3.2	2.5	2.3
	15.5	3.7	3.2	2.5	2.3
28 (3.6)	-20.0	1.9	1.9	1.8	1.8
	-15.0	2.3	2.2	2.1	2.1
	-10.0	2.6	2.5	2.4	2.4
	-5.0	2.9	2.9	2.8	2.6
	0.0	3.3	3.2	2.9	2.6
	2.5	3.5	3.4	2.9	2.6
	6.0	3.7	3.6	2.9	2.6
	7.5	3.8	3.6	2.9	2.6
	10.0	4.0	3.6	2.9	2.6
	12.5	4.2	3.6	2.9	2.6
	15.5	4.2	3.6	2.9	2.6
32 (4.0)	-20.0	2.1	2.1	2.0	2.0
	-15.0	2.5	2.4	2.4	2.3
	-10.0	2.9	2.8	2.7	2.6
	-5.0	3.3	3.2	3.1	2.8
	0.0	3.7	3.6	3.2	2.8
	2.5	3.8	3.8	3.2	2.8
	6.0	4.1	4.0	3.2	2.8
	7.5	4.2	4.0	3.2	2.8
	10.0	4.4	4.0	3.2	2.8
	12.5	4.6	4.0	3.2	2.8
	15.5	4.6	4.0	3.2	2.8
36 (4.5)	-20.0	2.4	2.3	2.3	2.2
	-15.0	2.8	2.7	2.7	2.6
	-10.0	3.2	3.2	3.1	3.0
	-5.0	3.7	3.6	3.4	3.2
	0.0	4.1	4.0	3.6	3.2
	2.5	4.3	4.3	3.6	3.2
	6.0	4.6	4.5	3.6	3.2
	7.5	4.8	4.5	3.6	3.2
	10.0	5.0	4.5	3.6	3.2
	12.5	5.2	4.5	3.6	3.2
	15.5	5.2	4.5	3.6	3.2

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
40 (5.0)	-20.0	2.6	2.6	2.5	2.5
	-15.0	3.1	3.1	3.0	2.9
	-10.0	3.6	3.5	3.4	3.3
	-5.0	4.1	4.0	3.8	3.5
	0.0	4.6	4.5	4.0	3.5
	2.5	4.8	4.7	4.0	3.5
	6.0	5.1	5.0	4.0	3.5
	7.5	5.3	5.0	4.0	3.5
	10.0	5.5	5.0	4.0	3.5
	12.5	5.8	5.0	4.0	3.5
	15.5	5.8	5.0	4.0	3.5
45 (5.6)	-20.0	3.0	2.9	2.8	2.8
	-15.0	3.5	3.4	3.3	3.2
	-10.0	4.0	4.0	3.8	3.7
	-5.0	4.6	4.5	4.3	4.0
	0.0	5.1	5.0	4.4	4.0
	2.5	5.4	5.3	4.4	4.0
	6.0	5.8	5.6	4.4	4.0
	7.5	5.9	5.6	4.4	4.0
	10.0	6.2	5.6	4.4	4.0
	12.5	6.5	5.6	4.4	4.0
	15.5	6.5	5.6	4.4	4.0
50 (6.3)	-20.0	3.3	3.2	3.2	3.1
	-15.0	3.9	3.8	3.7	3.7
	-10.0	4.5	4.4	4.3	4.2
	-5.0	5.1	5.0	4.8	4.5
	0.0	5.8	5.7	5.0	4.5
	2.5	6.1	6.0	5.0	4.5
	6.0	6.5	6.3	5.0	4.5
	7.5	6.7	6.3	5.0	4.5
	10.0	7.0	6.3	5.0	4.5
	12.5	7.3	6.3	5.0	4.5
	15.5	7.3	6.3	5.0	4.5
56 (7.0)	-20.0	3.7	3.6	3.6	3.5
	-15.0	4.4	4.3	4.2	4.1
	-10.0	5.0	4.9	4.8	4.6
	-5.0	5.7	5.6	5.4	5.0
	0.0	6.4	6.3	5.5	5.0
	2.5	6.7	6.6	5.5	5.0
	6.0	7.2	7.0	5.5	5.0
	7.5	7.4	7.0	5.5	5.0
	10.0	7.7	7.0	5.5	5.0
	12.5	8.1	7.0	5.5	5.0
	15.5	8.1	7.0	5.5	5.0
63 (8.0)	-20.0	4.2	4.1	4.1	4.0
	-15.0	5.0	4.9	4.8	4.6
	-10.0	5.8	5.6	5.4	5.3
	-5.0	6.5	6.4	6.1	5.7
	0.0	7.3	7.2	6.3	5.7
	2.5	7.7	7.6	6.3	5.7
	6.0	8.2	8.0	6.3	5.7
	7.5	8.5	8.0	6.3	5.7
	10.0	8.8	8.0	6.3	5.7
	12.5	9.2	8.0	6.3	5.7
	15.5	9.3	8.0	6.3	5.7
71 (9.0)	-20.0	4.8	4.6	4.6	4.5
	-15.0	5.6	5.5	5.3	5.2
	-10.0	6.5	6.4	6.1	6.0
	-5.0	7.4	7.2	6.9	6.4
	0.0	8.2	8.1	7.1	6.4
	2.5	8.7	8.5	7.1	6.4
	6.0	9.3	9.0	7.1	6.4
	7.5	9.5	9.0	7.1	6.4
	10.0	10.0	9.0	7.1	6.4
	12.5	10.4	9.0	7.1	6.4
	15.5	10.4	9.0	7.1	6.4
80 (10.0)	-20.0	5.3	5.1	5.1	5.0
	-15.0	6.3	6.1	5.9	5.8
	-10.0	7.2	7.1	6.8	6.6
	-5.0	8.2	8.0	7.7	7.1
	0.0	9.1	9.0	7.9	7.1
	2.5	9.6	9.5	7.9	7.1
	6.0	10.3	10.0	7.9	7.1
	7.5	10.6	10.0	7.9	7.1
	10.0	11.1	10.0	7.9	7.1
	12.5	11.5	10.0	7.9	7.1
	15.5	11.6	10.0	7.9	7.1

kcal/h=kW x 860 , BTU/h = kW x 3,412

6. Heating [All indoor units]

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
100 (12.5)	-20.0	6.6	6.4	6.4	6.2
	-15.0	7.8	7.6	7.4	7.3
	-10.0	9.0	8.8	8.5	8.3
	-5.0	10.2	10.0	9.6	8.9
	0.0	11.4	11.2	9.9	8.9
	2.5	12.0	11.8	9.9	8.9
	6.0	12.9	12.5	9.9	8.9
	7.5	13.2	12.5	9.9	8.9
	10.0	13.8	12.5	9.9	8.9
	12.5	14.4	12.5	9.9	8.9
	15.5	14.5	12.5	9.9	8.9
125 (16.0)	-20.0	8.5	8.2	8.1	8.0
	-15.0	10.0	9.8	9.5	9.3
	-10.0	11.5	11.3	10.9	10.6
	-5.0	13.1	12.8	12.2	11.3
	0.0	14.6	14.4	12.7	11.3
	2.5	15.4	15.1	12.7	11.3
	6.0	16.5	16.0	12.7	11.3
	7.5	16.9	16.0	12.7	11.3
	10.0	17.7	16.0	12.7	11.3
	12.5	18.5	16.0	12.7	11.3
	15.5	18.5	16.0	12.7	11.3
140 (18.0)	-20.0	9.5	9.3	9.1	9.0
	-15.0	11.3	11.0	10.7	10.4
	-10.0	13.0	12.7	12.2	11.9
	-5.0	14.7	14.4	13.8	12.8
	0.0	16.4	16.1	14.3	12.8
	2.5	17.3	17.0	14.3	12.8
	6.0	18.5	18.0	14.3	12.8
	7.5	19.0	18.0	14.3	12.8
	10.0	19.9	18.0	14.3	12.8
	12.5	20.8	18.0	14.3	12.8
	15.5	20.8	18.0	14.3	12.8

kcal/h=kW x 860 , BTU/h = kW x 3,412

All Indoor units SHC:Sensible Heat Capacity(kW)

Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp. 15°C D.B. SHC	20°C D.B. SHC	25°C D.B. SHC	27°C D.B. SHC
200 (25.0)	-20.0	13.2	12.9	12.7	12.5
	-15.0	15.6	15.3	14.9	14.5
	-10.0	18.0	17.6	17.0	16.5
	-5.0	20.4	20.0	19.1	17.7
	0.0	22.8	22.4	19.8	17.7
	2.5	24.0	23.6	19.8	17.7
	6.0	25.7	25.0	19.8	17.7
	7.5	26.4	25.0	19.8	17.7
	10.0	27.6	25.0	19.8	17.7
	12.5	28.9	25.0	19.8	17.7
	15.5	28.9	25.0	19.8	17.7
250 (31.5)	-20.0	16.7	16.2	16.0	15.7
	-15.0	19.7	19.2	18.7	18.3
	-10.0	22.7	22.2	21.4	20.8
	-5.0	25.7	25.2	24.1	22.3
	0.0	28.8	28.3	25.0	22.3
	2.5	30.3	29.8	25.0	22.3
	6.0	32.4	31.5	25.0	22.3
	7.5	33.3	31.5	25.0	22.3
	10.0	34.8	31.5	25.0	22.3
	12.5	36.4	31.5	25.0	22.3
	15.5	36.5	31.5	24.9	22.3

kcal/h=kW x 860 , BTU/h = kW x 3,412

CITY MULTI
2. OUTDOOR UNITS

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S SERIES ..... 2 - 3

Y SERIES ..... 2 - 29

Line-up of Outdoor Units of R410A CITY MULTI

Heat Pump S Series



PUMY-P100YHMC-C PUMY-P100VHMC-S
PUMY-P125YHMC-C PUMY-P125VHMC-S
PUMY-P140YHMC-C PUMY-P140VHMC-S

4, 5, 6HP



PUMY-P200YKMC-C PUMY-P250YKMC-C

8,10HP

Heat Pump Y Series



PUHY-P300YRJC-A PUHY-P350YRJC-A

12, 14HP



PUHY-P400YRJC-A PUHY-P450YRJC-A

16, 18HP

OUTDOOR UNITS

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1. SPECIFICATIONS

S

			PUMY-P100YHMC-C	PUMY-P125YHMC-C
Power source			3-phase 4-wire 380V 50Hz	
Cooling capacity (Nominal)	*1	kW	11.2	14.0
	*1	kcal / h	9,600	12,000
	*1	BTU / h	38,200	47,800
	Power input	kW	3.30	4.27
	Current input	A	5.28	6.83
	COP (kW / kW)		3.39	3.28
Temp. range of cooling	Indoor	W.B.	15 ~ 24°C (59 ~ 75°F)	
	Outdoor	D.B.	- 5 ~ 46°C (23 ~ 115°F) 10 to 46°CD.B. (50 to 115°FD.B.) : in case of connecting PKFY-P15-P25 type indoor unit.	
Heating capacity (Nominal)	*2	kW	12.5	16.0
	*2	kcal / h	10,800	13,800
	*2	BTU / h	42,700	54,600
	Power input	kW	3.63	4.29
	Current input	A	5.81	6.87
	COP (kW / kW)		3.44	3.73
Temp. range of heating	Indoor	D.B.	15 ~ 27°C (59 ~ 81°F)	
	Outdoor	W.B.	-15 ~ 15°C (5 ~ 59°F)	
Connectable indoor unit	Total capacity		50 ~ 130% of outdoor unit capacity	
	Model / Quantity		P15 ~ P125 / 1 ~ 8	P15 ~ P140 / 1 ~ 10
Sound pressure level (measured in anechoic room)		dB <A>	49 / 51	50 / 52
Refrigerant piping diameter	Liquid (High press.)	mm (in.)	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare
	Gas (Low press.)	mm (in.)	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare

External finish			Galvanized steel sheet <MUNSELL 3Y 7.8/1.1>	
External dimension H x W x D		mm	1,350 x 950 x 330 (+30)	1,350 x 950 x 330 (+30)
		in.	53-3/16 x 37-7/16 x 13 (+1-3/16)	53-3/16 x 37-7/16 x 13 (+1-3/16)
Net weight		kg (lbs)	142 (313)	142 (313)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Compressor	Type		Inverter scroll hermetic comp.	Inverter scroll hermetic comp.
	Manufacturer		MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output	kW	2.2	2.9
	Case heater	kW	-	-
	Lubricant		FV50S	FV50S
FAN	Air flow rate	m^3 / min	100	100
		L / s	1,667	1,667
		cfm	3,531	3,531
	External static press.		0 Pa	0 Pa
	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Control, Driving mechanism		DC-control, Direct-driven by motor	DC-control, Direct-driven by motor
	Motor output	kW	0.06 x 2	0.06 x 2
HIC circuit (HIC: Heat Inter-Changer)			-	
Protection	High pressure protection		High pressure sensor, High pressure switch 4.15 MPa	
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	
	Compressor		Compressor thermo protection, Over-current protection	
	Fan motor		Over-heat protection, Voltage protection	
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)	
Refrigerant	Type x Original charge		R410A x 8.5kg (19 lbs)	R410A x 8.5kg (19 lbs)
	Control		LEV circuit	
Drawing	External		YHM-BK01-B328	
	Wiring		YHM-BH79-B325	
	Refrigerant circle		RC_VBN-050092	
Standard attachment	Document		Installation Manual	
	Accessory		Grounded lead wire x 2	
Optional parts			Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E
Remark			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.	

Note :

*1 Nominal cooling conditions

Indoor :	27°CDB/19°CWB (81°FDB/66°FWB)
Outdoor :	35°CDB (95°FDB)
Pipe length :	7.5 m (24-9/16 ft)
Level difference :	0 m (0 ft)

*2 Nominal heating conditions

	20°CDB (68°FDB)
	7°CDB/6°CWB (45°FDB/43°FWB)
	7.5 m (24-9/16 ft)
	0 m (0 ft)

* Nominal conditions *1, *2 are subject to JIS B8615-1.
* Due to continuing improvement, above specifications may be subject to change without notice.

Unit converter

kcal/h = kW x 860
BTU/h = kW x 3,412
cfm = m^3/min x 35.31
lbs = kg / 0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

			PUMY-P140YHMC-C	PUMY-P100VHMC-S
Power source			3-phase 4-wire 380V 50Hz	1-phase 220V 50Hz
Cooling capacity (Nominal)	*1	kW	15.5	11.2
	*1	kcal / h	13,300	9,600
	*1	BTU / h	52,900	38,200
	Power input	kW	5.32	3.27
	Current input	A	8.51	14.9
	COP (kW / kW)		2.91	3.43
Temp. range of cooling	Indoor	W.B.	15 ~ 24°C (59 ~ 75°F)	15 ~ 24°C (59 ~ 75°F)
	Outdoor	D.B.	- 5 ~ 46°C (23 ~ 115°F) 10 to 46°CD.B. (50 to 115°FD.B.) : in case of connecting PKFY-P15-P25 type indoor unit.	- 5 ~ 46°C (23 ~ 115°F) 10 to 46°CD.B. (50 to 115°FD.B.) : in case of connecting PKFY-P15-P25 type indoor unit.
Heating capacity (Nominal)	*2	kW	18.0	12.5
	*2	kcal / h	15,500	10,800
	*2	BTU / h	61,400	42,700
	Power input	kW	5.32	3.41
	Current input	A	8.51	15.5
	COP (kW / kW)		3.38	3.67
Temp. range of heating	Indoor	D.B.	15 ~ 27°C (59 ~ 81°F)	15 ~ 27°C (59 ~ 81°F)
	Outdoor	W.B.	-15 ~ 15°C (5 ~ 59°F)	-15 ~ 15°C (5 ~ 59°F)
Connectable indoor unit	Total capacity		50 ~ 130% of outdoor unit capacity	50 ~ 130% of outdoor unit capacity
	Model / Quantity		P15 ~ P140 / 1 ~ 12	P15 ~ P125 / 1 ~ 8
Sound pressure level (measured in anechoic room)		dB <A>	51 / 53	49 / 51
Refrigerant piping diameter	Liquid (High press.)	mm (in.)	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare
	Gas (Low press.)	mm (in.)	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare

External finish			Galvanized steel sheet <MUNSELL 3Y 7.8/1.1>	Galvanized steel sheet <MUNSELL 5Y 7/1>
External dimension H x W x D		mm	1,350 x 950 x 330 (+30)	1,350 x 950 x 330 (+30)
		in.	53-3/16 x 37-7/16 x 13 (+1-3/16)	53-3/16 x 37-7/16 x 13 (+1-3/16)
Net weight		kg (lbs)	142 (313)	128 (283)
Heat exchanger			Salt-resistant cross fin & copper tube	Cross fin and Copper tube
Compressor	Type x Quantity		Inverter scroll hermetic comp. x 1	Inverter scroll hermetic comp. x 1
	Manufacturer		MITSUBISHI ELECTRIC CORPORATION	MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter	Inverter
	Motor output	kW	3.3	2.2
	Case heater	kW	-	-
	Lubricant		FV50S	FV50S
FAN	Air flow rate	m^3 / min	100	100
		L / s	1,667	1,667
		cfm	3,531	3,531
	External static press.		0 Pa	0 Pa
	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Control, Driving mechanism		DC-control, Direct-driven by motor	DC-control, Direct-driven by motor
	Motor output	kW	0.06 x 2	0.06 x 2
HIC circuit (HIC: Heat Inter-Changer)			-	-
Protection	High pressure protection		High pressure sensor, High pressure switch 4.15 MPa	High pressure sensor, High pressure switch 4.15 MPa
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Compressor thermo protection, Over-current protection	Compressor thermo protection, Over-current protection
	Fan motor		Over-heat protection, Voltage protection	Over-heat protection, Voltage protection
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)	Auto-defrost mode (Reversed refrigerant circle)
Refrigerant	Type x Original charge		R410A x 8.5kg (19 lbs)	R410A x 8.5kg (19 lbs)
	Control		LEV circuit	LEV circuit
Drawing	External		YHM-BK01-B328	VHM-BK01-J881
	Wiring		YHM-BH79-B325	VHM-BH79-B720
	Refrigerant circle		RC_VBN-050092	RC_VBN-050092
Standard attachment	Document		Installation Manual	Installation Manual
	Accessory		Grounded lead wire x 2	Grounded lead wire x 2
Optional parts			Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E
Remark			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.	

Note :

*1 Nominal cooling conditions

Indoor :	27°CDB/19°CWB (81°FDB/66°FWB)
Outdoor :	35°CDB (95°FDB)
Pipe length :	7.5 m (24-9/16 ft)
Level difference :	0 m (0 ft)

*2 Nominal heating conditions

	20°CDB (68°FDB)
	7°CDB/6°CWB (45°FDB/43°FWB)
	7.5 m (24-9/16 ft)
	0 m (0 ft)

* Nominal conditions *1, *2 are subject to JIS B8615-1.
* Due to continuing improvement, above specifications may be subject to change without notice.

Unit converter

kcal/h = kW x 860
BTU/h = kW x 3,412
cfm = m^3/min x 35.31
lbs = kg / 0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

			PUMY-P125VHMC-S	PUMY-P140VHMC-S
Power source			1-phase 220V 50Hz	1-phase 220V 50Hz
Cooling capacity (Nominal)	*1	kW	14.0	15.5
	*1	kcal / h	12,000	13,300
	*1	BTU / h	47,800	52,900
	Power input	kW	4.66	6.37
	Current input	A	21.2	29.0
	COP (kW / kW)		3.00	2.43
Temp. range of cooling	Indoor	W.B.	15 ~ 24°C (59 ~ 75°F)	15 ~ 24°C (59 ~ 75°F)
	Outdoor	D.B.	- 5 ~ 46°C (23 ~ 115°F) 10 to 46°CD.B. (50 to 115°FD.B.) : in case of connecting PKFY-P15-P25 type indoor unit.	- 5 ~ 46°C (23 ~ 115°F) 10 to 46°CD.B. (50 to 115°FD.B.) : in case of connecting PKFY-P15-P25 type indoor unit.
Heating capacity (Nominal)	*2	kW	16.0	18.0
	*2	kcal / h	13,800	15,500
	*2	BTU / h	54,600	61,400
	Power input	kW	4.57	5.59
	Current input	A	20.8	25.5
	COP (kW / kW)		3.50	3.22
Temp. range of heating	Indoor	D.B.	15 ~ 27°C (59 ~ 81°F)	15 ~ 27°C (59 ~ 81°F)
	Outdoor	W.B.	-15 ~ 15°C (5 ~ 59°F)	-15 ~ 15°C (5 ~ 59°F)
Connectable indoor unit	Total capacity		50 ~ 130% of outdoor unit capacity	50 ~ 130% of outdoor unit capacity
	Model / Quantity		P15 ~ P140 / 1 ~ 10	P15 ~ P140 / 1 ~ 12
Sound pressure level (measured in anechoic room)		dB <A>	50 / 52	52 / 54
Refrigerant piping diameter	Liquid (High press.)	mm (in.)	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare
	Gas (Low press.)	mm (in.)	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare

External finish			Galvanized steel sheet <MUNSELL 5Y 7/1>	Galvanized steel sheet <MUNSELL 5Y 7/1>
External dimension H x W x D		mm	1,350 x 950 x 330 (+30)	1,350 x 950 x 330 (+30)
		in.	53-3/16 x 37-7/16 x 13 (+1-3/16)	53-3/16 x 37-7/16 x 13 (+1-3/16)
Net weight		kg (lbs)	128 (283)	128 (283)
Heat exchanger			Cross fin and Copper tube	Cross fin and Copper tube
Compressor	Type x Quantity		Inverter scroll hermetic comp. x 1	Inverter scroll hermetic comp. x 1
	Manufacturer		MITSUBISHI ELECTRIC CORPORATION	MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter	Inverter
	Motor output	kW	2.9	3.3
	Case heater	kW	-	-
	Lubricant		FV50S	FV50S
FAN	Air flow rate	m^3 / min	100	100
		L / s	1,667	1,667
		cfm	3,531	3,531
	External static press.		0 Pa	0 Pa
	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Control, Driving mechanism		DC-control, Direct-driven by motor	DC-control, Direct-driven by motor
	Motor output	kW	0.06 x 2	0.06 x 2
HIC circuit (HIC: Heat Inter-Changer)			-	-
Protection	High pressure protection		High pressure sensor, High pressure switch 4.15 MPa	High pressure sensor, High pressure switch 4.15 MPa
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Compressor thermo protection, Over-current protection	Compressor thermo protection, Over-current protection
	Fan motor		Over-heat protection, Voltage protection	Over-heat protection, Voltage protection
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)	Auto-defrost mode (Reversed refrigerant circle)
Refrigerant	Type x Original charge		R410A x 8.5kg (19 lbs)	R410A x 8.5kg (19 lbs)
	Control		LEV circuit	LEV circuit
Drawing	External		VHM-BK01-J881 VHM-BH79-B720 RC_VBN-050092	VHM-BK01-J881 VHM-BH79-B720 RC_VBN-050092
	Wiring			
	Refrigerant circle			
Standard attachment	Document		Installation Manual	Installation Manual
	Accessory		Grounded lead wire x 2	Grounded lead wire x 2
Optional parts			Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E
Remark			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.	

Note :

*1 Nominal cooling conditions

Indoor :	27°CDB/19°CWB (81°FDB/66°FWB)
Outdoor :	35°CDB (95°FDB)
Pipe length :	7.5 m (24-9/16 ft)
Level difference :	0 m (0 ft)

*2 Nominal heating conditions

	20°CDB (68°FDB)
	7°CDB/6°CWB (45°FDB/43°FWB)
	7.5 m (24-9/16 ft)
	0 m (0 ft)

* Nominal conditions *1, *2 are subject to JIS B8615-1.
* Due to continuing improvement, above specifications may be subject to change without notice.

Unit converter

kcal/h = kW x 860
BTU/h = kW x 3,412
cfm = m^3/min x 35.31
lbs = kg / 0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

			PUMY-P200YKMC-C	PUMY-P250YKMC-C
Power source			3-phase 4-wire 380V 50Hz	3-phase 4-wire 380V 50Hz
Cooling capacity (Nominal)	*1	kW	22.4	25.0
	*1	kcal / h	19,300	21,500
	*1	BTU / h	76,400	85,300
	Power input	kW	8.39	10.34
	Current input	A	13.7	16.9
	COP (kW / kW)		2.67	2.42
Temp. range of cooling	Indoor	W.B.	15 ~ 24°C (59 ~ 75°F)	15 ~ 24°C (59 ~ 75°F)
	Outdoor	D.B.	- 5 ~ 46°C (23 ~ 115°F) 10 to 46°CD.B. (50 to 115°FD.B.) : in case of connecting PKFY-P15-P25 type indoor unit.	- 5 ~ 46°C (23 ~ 115°F) 10 to 46°CD.B. (50 to 115°FD.B.) : in case of connecting PKFY-P15-P25 type indoor unit.
Heating capacity (Nominal)	*2	kW	25.0	27.3
	*2	kcal / h	21,500	23,500
	*2	BTU / h	85,300	93,100
	Power input	kW	6.24	7.26
	Current input	A	10.2	11.9
	COP (kW / kW)		4.01	3.76
Temp. range of heating	Indoor	D.B.	15 ~ 27°C (59 ~ 81°F)	15 ~ 27°C (59 ~ 81°F)
	Outdoor	W.B.	-20 ~ 15°C (-4 ~ 59°F)	-20 ~ 15°C (-4 ~ 59°F)
Connectable indoor unit	Total capacity		50 ~ 130% of outdoor unit capacity	50 ~ 130% of outdoor unit capacity
	Model / Quantity		P15 ~ P140 / 1 ~ 12	P15 ~ P140 / 1 ~ 12
Sound pressure level (measured in anechoic room)		dB <A>	56 / 58	58 / 61
Refrigerant piping diameter	Liquid	mm (in.)	ø9.52 (ø3/8) (*3)	ø9.52 (ø3/8) (*3)
	Gas	mm (in.)	ø22,2 (ø7/8)	ø22,2 (ø7/8)

External finish			Galvanized steel sheet <MUNSELL 3Y 7.8/1.1>	Galvanized steel sheet <MUNSELL 3Y 7.8/1.1>
External dimension H x W x D		mm	1,338 x 1,050 x 330 (+30)	1,338 x 1,050 x 330 (+30)
		in.	52-11/16 x 41-3/8 x 13 (+1-3/16)	52-11/16 x 41-3/8 x 13 (+1-3/16)
Net weight		kg (lbs)	140 (309)	140 (309)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Compressor	Type x Quantity		Inverter scroll hermetic comp. x 1	Inverter scroll hermetic comp. x 1
	Manufacturer		MITSUBISHI ELECTRIC CORPORATION	MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter	Inverter
	Motor output	kW	4.7	5.5
	Case heater	kW	-	-
	Lubricant		FV50S	FV50S
FAN	Air flow rate	m^3 / min	140	140
		L / s	2333	2333
		cfm	4943	4943
	External static press.		0 Pa	0 Pa
	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Control, Driving mechanism		DC-control, Direct-driven by motor	DC-control, Direct-driven by motor
	Motor output	kW	0.15 x 2	0.15+0.15
HIC circuit (HIC: Heat Inter-Changer)			HIC circuit	HIC circuit
Protection	High pressure protection		High pressure sensor, High pressure switch 4.15 MPa	High pressure sensor, High pressure switch 4.15 MPa
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Compressor thermo protection, Over-current protection	Compressor thermo protection, Over-current protection
	Fan motor		Over-heat protection, Voltage protection	Over-heat protection, Voltage protection
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)	Auto-defrost mode (Reversed refrigerant circle)
Refrigerant	Type x Original charge		R410A x 7.3kg (17 lbs)	R410A x 7.3kg (17 lbs)
	Control		LEV circuit	LEV circuit
Drawing	External		YKM-BK01-J769	YKM-BK01-J769
	Wiring		YKM-BH79-B678	YKM-BH79-B678
	Refrigerant circle		RC_VBN-11Q067	RC_VBN-11Q067
Standard attachment	Document		Installation Manual	Installation Manual
	Accessory		Grounded lead wire x 2	Grounded lead wire x 2
Optional parts			Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E
Remark			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.	

Note :

*1 Nominal cooling conditions

Indoor :	27°CDB/19°CWB (81°FDB/66°FWB)
Outdoor :	35°CDB (95°FDB)
Pipe length :	7.5 m (24-9/16 ft)
Level difference :	0 m (0 ft)

*2 Nominal heating conditions

20°CDB (68°FDB)
7°CDB/6°CWB (45°FDB/43°FWB)
7.5 m (24-9/16 ft)
0 m (0 ft)

*3 Liquid pipe diameter: 12.7mm in case of farthest piping length is longer than 60m
* Nominal conditions *1, *2 are subject to JIS B8615-1.
* Due to continuing improvement, above specifications may be subject to change without notice.

Unit converter

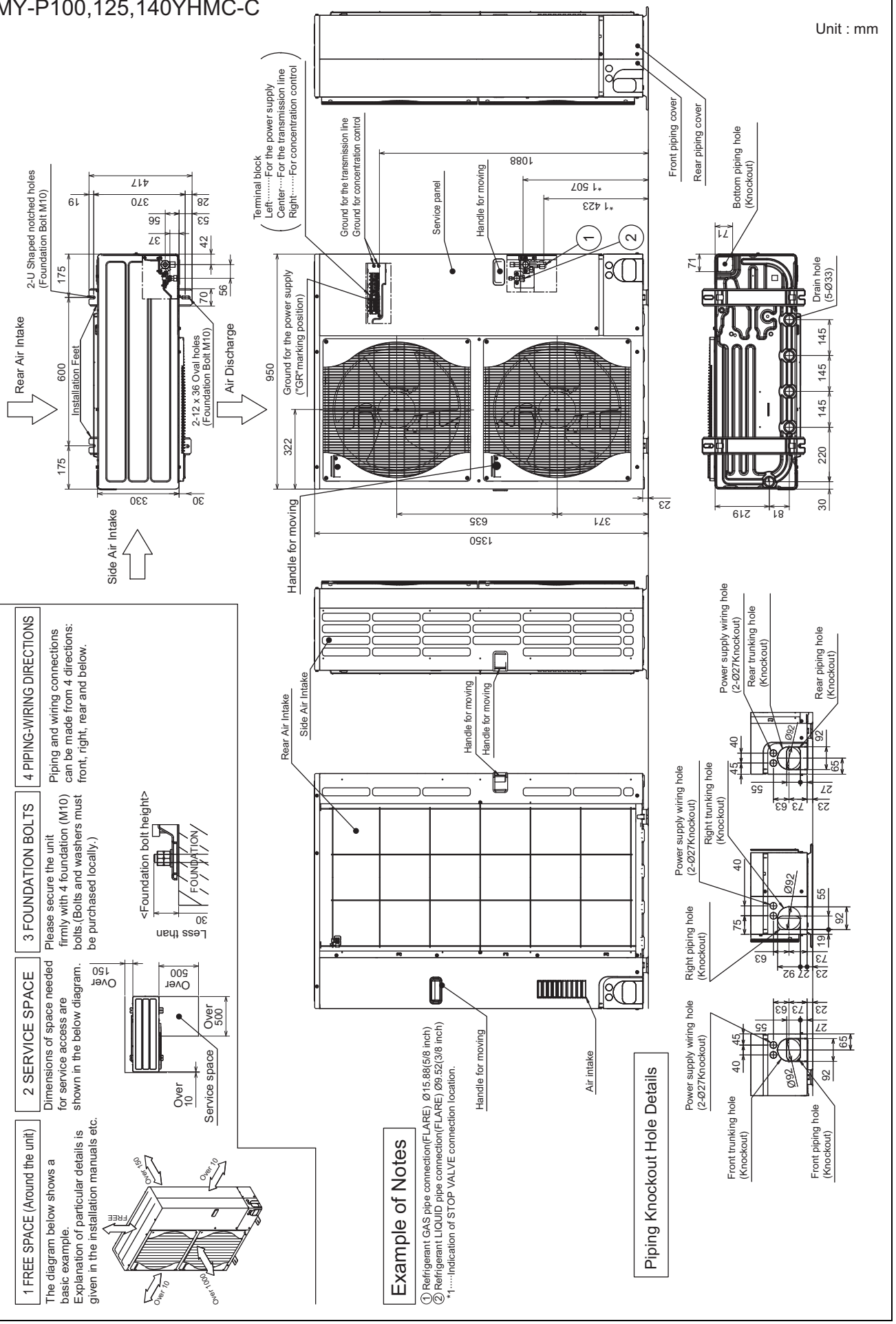
kcal/h = kW x 860
BTU/h = kW x 3,412
cfm = m^3/min x 35.31
lbs = kg / 0.4536

*Above specification data is subject to rounding variation.

S

PUMY-P100,125,140YHMC-C

Unit : mm

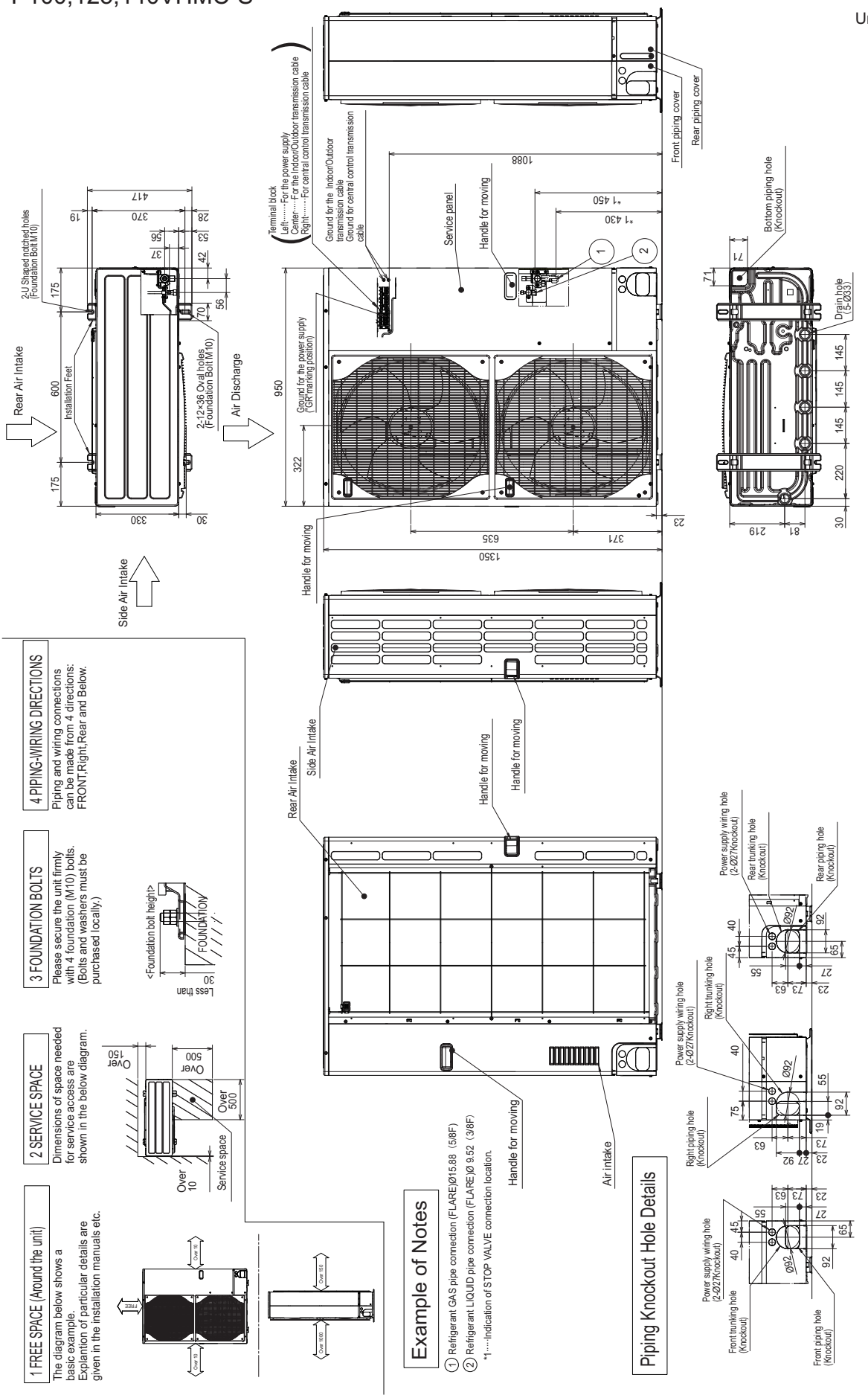


2. EXTERNAL DIMENSIONS

S

PUMY-P100,125,140VHMC-S

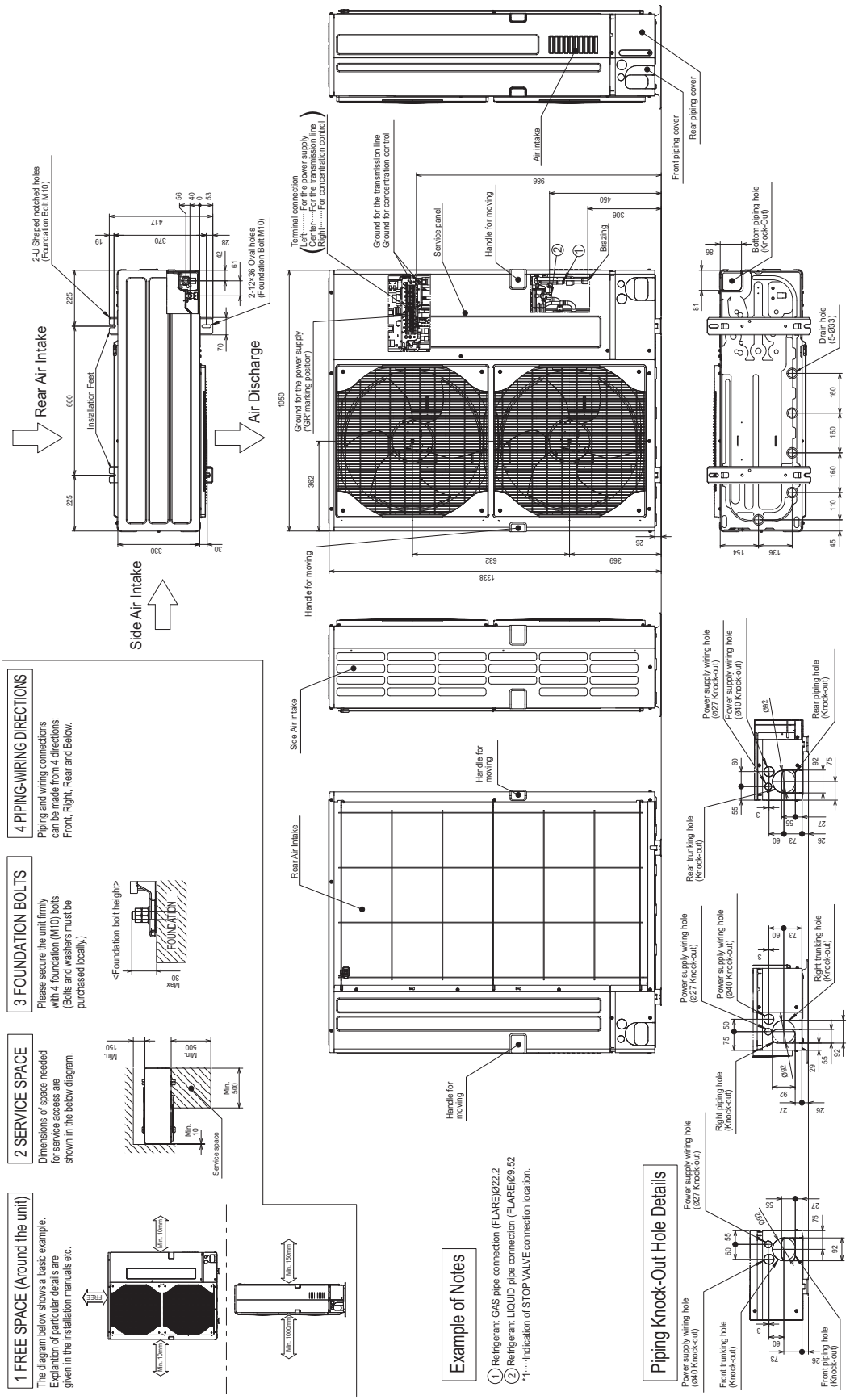
Unit : mm



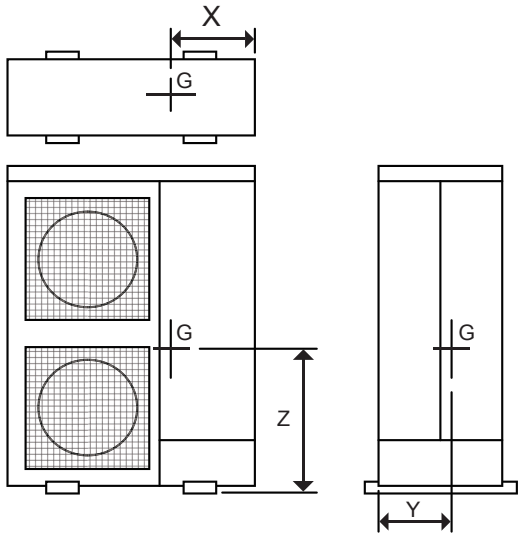
S

PUMY-P200,250YKMC-C

Unit : mm



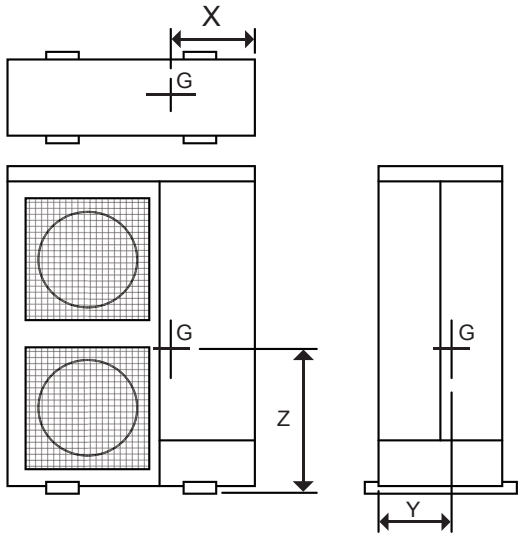
PUMY-P100,125,140YHMC-C
PUMY-P100,125,140VHMC-S



[mm]

Model	W	D	H	X	Y	Z
PUMY-P100YHMC-C PUMY-P125YHMC-C PUMY-P140YHMC-C PUMY-P100VHMC-S PUMY-P125VHMC-S PUMY-P140VHMC-S	950	330 (+30)	1350	620	185	500

PUMY-P200,250YKMC-C

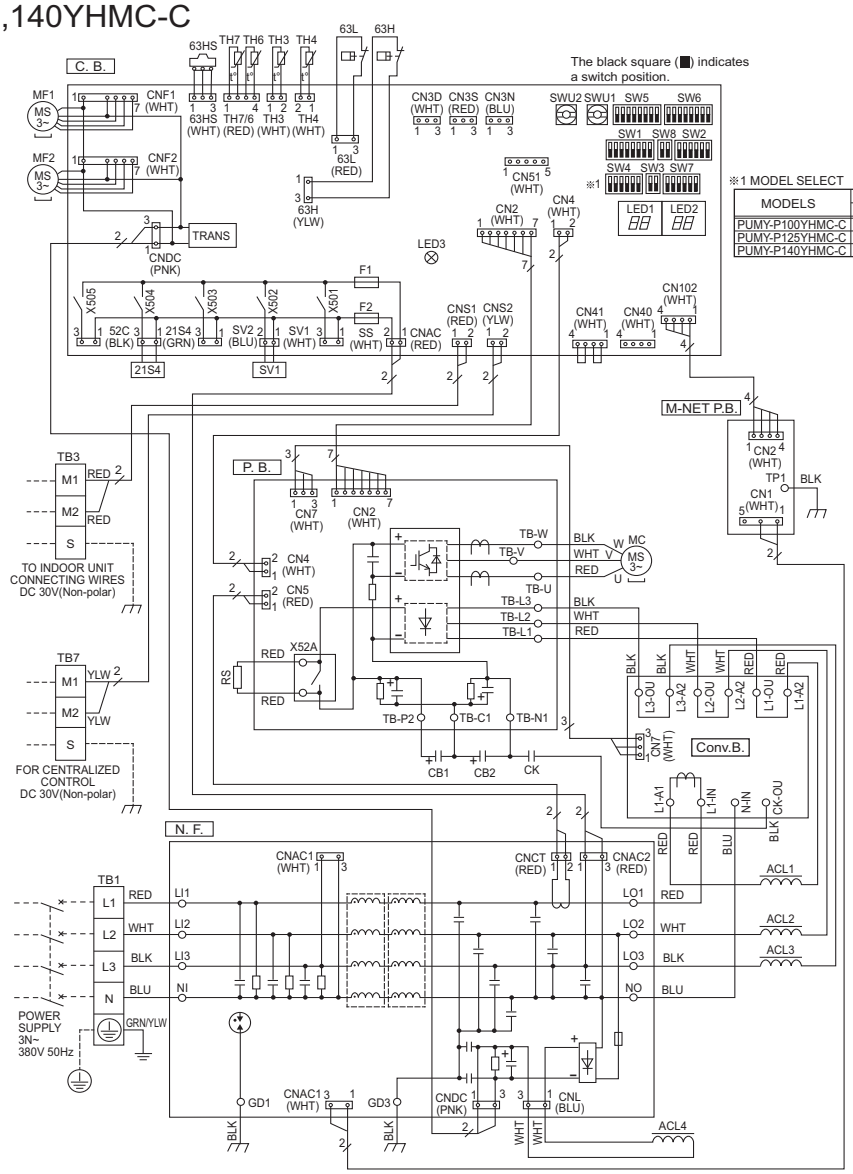


[mm]

Model	W	D	H	X	Y	Z
PUMY-P200YKMC-C PUMY-P250YKMC-C	1050	330 (+30)	1338	385	175	507

S

PUMY-P100,125,140YHMC-C



SYMBOL	NAME
TB1	Terminal Block <Power Supply>
TB3	Terminal Block <Transmission>
TB7	Terminal Block <Contralized Control>
MC	Motor for Compressor
MF1,MF2	Fan Motor
21S4	Solenoid Valve <Four way valve>
SV1	Solenoid Valve <Bypass valve>
TH3	Thermistor <Outdoor Pipe Temperature>
TH4	Thermistor <Compressor Temperature>
TH6	Thermistor <Low Pressure Saturated Temperature>
TH7	Thermistor <Outdoor Temperature>
63HS	High Pressure Sensor <Discharge Pressure>
63H	High Pressure Switch
63L	Low Pressure Switch
CB1,CB2	Main Smoothing Capacitor
CK	Capacitor
RS	Rush Current Protect Resistor
ACL1~ACL4	Reactor

SYMBOL	NAME
P.B.	Power Circuit Board
TB-U/V/W	Connection Terminal <U/V/W-Phase>
TB-L1/L2/L3	Connection Terminal <L1/L2/L3-Power Supply>
TB-P2	Connection Terminal
TB-C1	Connection Terminal
TB-N1	Connection Terminal
X52A	52C Relay
C.B.	Controller Circuit Board
F1,F2	Fuse <6.3A>
SW1	Switch <Display Selection>
SW2	Switch <Function Selection>
SW3	Switch <Test Run>
SW4	Switch <Model Selection>
SW5	Switch <Function Selection>
SW6	Switch <Function Selection>
SW7	Switch <Function Selection>
SW8	Switch <Function Selection>
SWU1	Switch <Unit Address Selection, 1st digit>
SWU2	Switch <Unit Address Selection, 2nd digit>
LED1,2	Digital Indicator <Operation Inspection Display>
LED3	LED <Power Supply to Main Microcomputer>

SYMBOL	NAME
CNS1	Connector <Multi System>
CNS2	Connector <Centralized Cotrol>
SS	Connector <For Option>
CN3D	Connector <For Option>
CN3S	Connector <For Option>
CN3N	Connector <For Option>
CN51	Connector <For Option>
X501~505	Relay
CONV.B.	Converter Circuit Board
L1-A1,L1-IN	Connection Terminal <L1-Power Supply>
L1-A2,L1-OU	Connection Terminal <L1-Power Supply>
L2-A2,L2-OU	Connection Terminal <L2-Power Supply>
L3-A2,L3-OU	Connection Terminal <L3-Power Supply>
N-IN	Connection Terminal
CK-OU	Connection Terminal
N.F.	Noise Filter Circuit Board
LI1/LI2/LI3/NI	Connection Terminal <L1/L2/L3/N-Power Supply>
LO1/LO2/LO3/NO	Connection Terminal <L1/L2/L3/N-Power Supply>
GD1,GD3	Connection Terminal <Ground>
M-NET P.B.	M-NET Power Circuit Board
TP1	Connection Terminal <Ground>

Cautions when Servicing

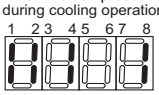
- ⚠ WARNING: When the main supply is turned off, the voltage [540 V] in the main capacitor will drop to 20 V in approx. 5 minutes (input voltage: 380 V). When servicing, make sure that LED1, LED2 on the outdoor circuit board goes out, and then wait for at least 5 minute.
- Components other than the outdoor board may be faulty: Check and take corrective action, referring to the service manual. Do not replace the outdoor board without checking.

NOTES:

1. Refer to the wiring diagrams of the indoor units for details on wiring of each indoor unit.
   Self-diagnosis function :
   The indoor and outdoor units can be diagnosed automatically using the self-diagnosis switch (SW1) and LED1, LED2 (LED indication) found on the multi-controller of the outdoor unit.
   LED indication : Set all contacts of SW1 to OFF.
   - During normal operation
     The LED indicates the drive state of the controller in the outdoor unit.

Bit	1	2	3	4	5	6	7	8
Indication	Compressor operated	52C	21S4	SV1	(SV2)	—	—	Always lit

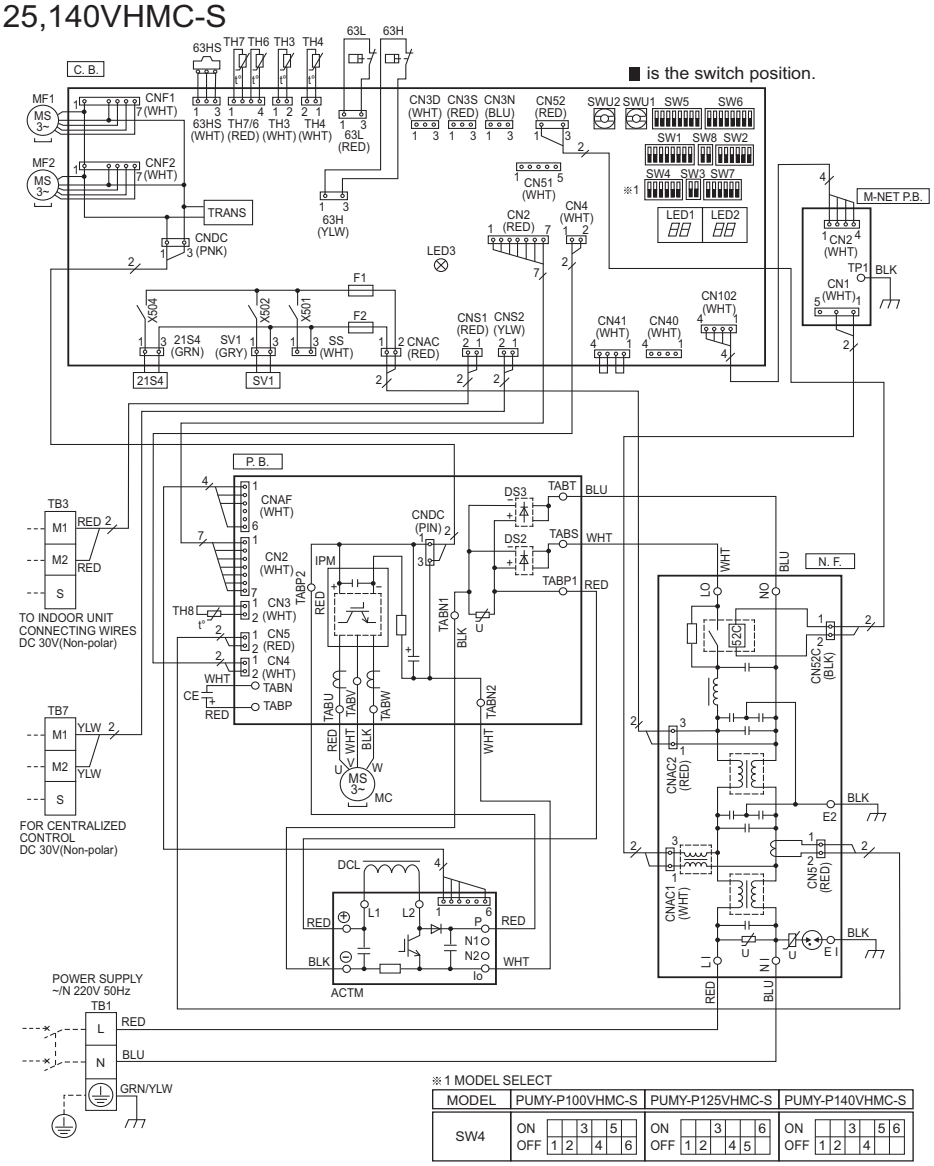
[Example]
When the compressor and SV1 are turned during cooling operation.



   - When fault requiring inspection has occurred
     The LED alternately indicates the inspection code and the location of the unit in which the fault has occurred.

S

PUMY-P100,125,140VHMC-S



※1 MODEL SELECT

MODEL	PUMY-P100VHMC-S	PUMY-P125VHMC-S	PUMY-P140VHMC-S
SW4	ON 3 5 / OFF 1 2 4 6	ON 3 6 / OFF 1 2 4 5	ON 3 5 6 / OFF 1 2 4

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block <Power Supply>	P.B.	Power Circuit Board	SW6	Switch <Function Selection>
TB3	Terminal Block <Indoor/Outdoor transmission cable>	TABU/V/W	Connection Terminal <U/V/W-Phase>	SW7	Switch <Function Selection>
		TABS/T	Connection Terminal <L/N-Phase>	SW8	Switch <Function Selection>
TB7	Terminal Block <Central control transmission cable>	TABP1/P2/P	Connection Terminal <DC Voltage>	SWU1	Switch <Unit Address Selection, 1st digit>
		TABN1/N2/N	Connection Terminal <DC Voltage>	SWU2	Switch <Unit Address Selection, 2nd digit>
MC	Motor For Compressor	DS2,DS3	Diode Bridge	CN52	Connector <To N.F. Board CN52C>
MF1,MF2	Fan Motor	IPM	Power Module	SS	Connector <Connection For Option>
21S4	Solenoid Valve <Four-Way Valve>	N.F.	Noise Filter Circuit Board	CN3D	Connector <Connection For Option>
63H	High Pressure Switch	LI/LO	Connection Terminal <L-Phase>	CN3S	Connector <Connection For Option>
63L	Low Pressure Switch	NI/NO	Connection Terminal <N-Phase>	CN3N	Connector <Connection For Option>
63HS	High Pressure Sensor	EI,E2	Connection Terminal <Ground>	CN51	Connector <Connection For Option>
SV1	Solenoid Valve <Bypass valve>	52C	52C Relay	LED1,LED2	LED <Operation Inspection Display>
TH3	Thermistor <Outdoor Pipe>	C.B.	Controller Circuit Board	LED3	LED <Power Supply to Main Microcomputer>
TH4	Thermistor <Compressor>	SW1	Switch <Display Selection>	F1,F2	Fuse <T6,3AL250V>
TH6	Thermistor <Low Pressure Saturated>	SW2	Switch <Function Selection>	X501~504	Relay
TH7	Thermistor <Outdoor>	SW3	Switch <Test Run>	M-NET P.B.	M-NET Power Circuit Board
TH8	Thermistor <Heat Sink>	SW4	Switch <Model Selection>	TP1	ConnectionTerminal <Ground>
DCL	Reactor	SW5	Switch <Function Selection>		
ACTM	Active Filter Module				
CE	Main Smoothing Capacitor				

Cautions when Servicing

- ⚠ WARNING: When the main supply is turned off, the voltage [340 V] in the main capacitor will drop to 20 V in approx. 5 minutes (input voltage: 220 V). When servicing, make sure that LED1, LED2 on the outdoor circuit board goes out, and then wait for at least 5 minute.
- Components other than the outdoor board may be faulty: Check and take corrective action, referring to the service manual. Do not replace the outdoor board without checking.

NOTES:

1.Refer to the wiring diagrams of the indoor units for details on wiring of each indoor unit.

Self-diagnosis function

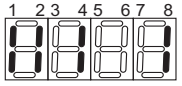
indoor and outdoor units can be diagnosed automatically using the self-diagnosis switch (SW1) and LED1, LED2 (LED indication) found on the multi-controller of the outdoor unit. LED indication : Set all contacts of SW1 to OFF.

- During normal operation

The LED indicates the drive state of the controller in the outdoor unit.

Bit	1	2	3	4	5	6	7	8
Indication	Compressor operated	52C	21S4	SV1	–	–	–	Always lit

[Example]
When the compressor and SV1 are turned during cooling operation.

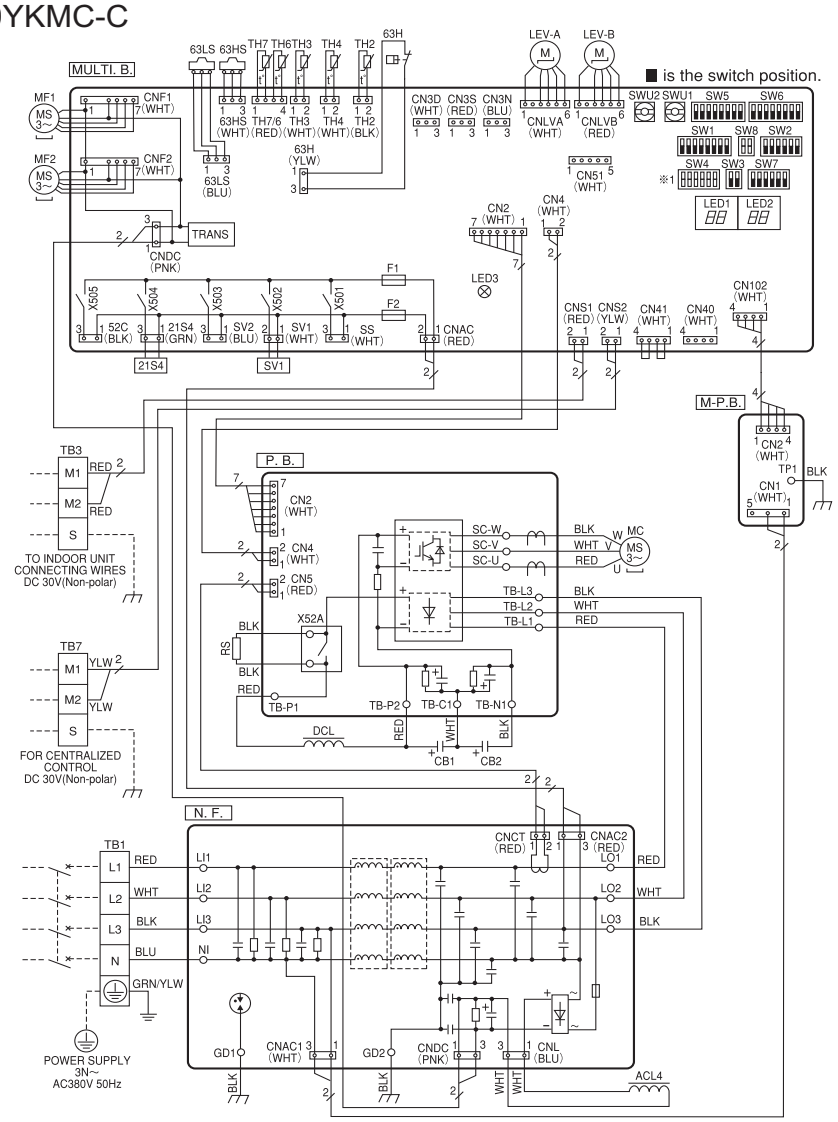


- When fault requiring inspection has occurred

The LED alternately indicates the inspection code and the location of the unit in which the fault has occurred.

S

PUMY-P200,250YKMC-C



SYMBOL	NAME
TB1	Terminal Block 〈Power Supply〉
TB3	Terminal Block 〈Transmission〉
TB7	Terminal Block 〈Contralized Control〉
MC	Motor for Compressor
MF1,MF2	Fan Motor
21S4	Solenoid Valve 〈Four way valve〉
SV1	Solenoid Valve 〈Bypass valve〉
TH2	Thermistor 〈HIC Pipe Temperature〉
TH3	Thermistor 〈Outdoor Pipe Temperature〉
TH4	Thermistor 〈Compressor Temperature〉
TH6	Thermistor 〈Low Pressure Saturated Temperature〉
TH7	Thermistor 〈Outdoor Temperature〉
LEV-A,LEV-B	Electronic Expansion Valve
63HS	High Pressure Sensor 〈Discharge Pressure〉
63LS	Low Pressure Sensor
63H	High Pressure Switch
CB1,CB2	Main Smoothing Capacitor
RS	Rush Current Protect Resistor
ACL4	Reactor

SYMBOL	NAME
P.B.	Power Circuit Board
SC-U/V/W	Connection Terminal 〈U/V/W-Phase〉
TB-L1/L2/L3	Connection Terminal 〈L1/L2/L3-Power Supply〉
TB-P1	Connection Terminal
TB-P2	Connection Terminal
TB-C1	Connection Terminal
TB-N1	Connection Terminal
X52A	52C Relay
MULTI.B.	Controller Circuit Board
F1,F2	Fuse 〈6.3A〉
SW1	Switch 〈Display Selection〉
SW2	Switch 〈Function Selection〉
SW3	Switch 〈Test Run〉
SW4	Switch 〈Model Selection〉
SW5	Switch 〈Function Selection〉
SW6	Switch 〈Function Selection〉
SW7	Switch 〈Function Selection〉
SW8	Switch 〈Model Selection〉
SWU1	Switch 〈Unit Address Selection, 1st digit〉

SYMBOL	NAME
SWU2	Switch 〈Unit Address Selection, 2nd digit〉
LED1,2	Digital Indicator 〈Operation Inspection Display〉
LED3	LED 〈Power Supply to Main Microcomputer〉
CNS1	Connector 〈Multi System〉
CNS2	Connector 〈Centralized Cotrol〉
SS	Connector 〈For Option〉
CN3D	Connector 〈For Option〉
CN3S	Connector 〈For Option〉
CN3N	Connector 〈For Option〉
CN51	Connector 〈For Option〉
X501～505	Relay
N.F.	Noise Filter Circuit Board
LI1/LI2/LI3/NI	Connection Terminal 〈L1/L2/L3/N-Power Supply〉
LO1/LO2/LO3	Connection Terminal 〈L1/L2/L3-Power Supply〉
GD1,GD2	Connection Terminal 〈Ground〉
M-NET P.B.	M-NET Power Circuit Board
TP1	Connection Terminal 〈Ground〉

Cautions when Servicing

- ⚠ WARNING: When the main supply is turned off, the voltage [540 V] in the main capacitor will drop to 20 V in approx. 5 minutes (input voltage: 380 V). When servicing, make sure that LED1, LED2 on the outdoor circuit board goes out, and then wait for at least 5 minutes.
- Components other than the outdoor board may be faulty: Check and take corrective action, referring to the service manual. Do not replace the outdoor board without checking.

NOTES:

1.Refer to the wiring diagrams of the indoor units for details on wiring of each indoor unit.

〈Self-diagnosis function〉

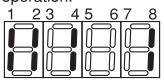
The indoor and outdoor units can be diagnosed automatically using the self-diagnosis switch (SW1) and LED1, LED2 (LED indication) found on the multi-controller of the outdoor unit.
LED indication : Set all contacts of SW1 to OFF.

- During normal operation

The LED indicates the drive state of the controller in the outdoor unit.

Bit	1	2	3	4	5	6	7	8
Indication	Compressor operated	52C	21S4	SV1	(SV2)	—	—	Always lit

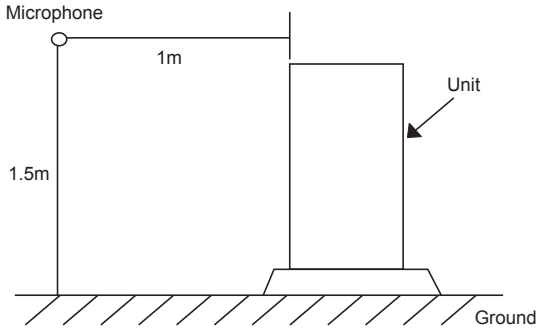
〔Example〕
When the compressor and SV1 are turned during cooling operation.



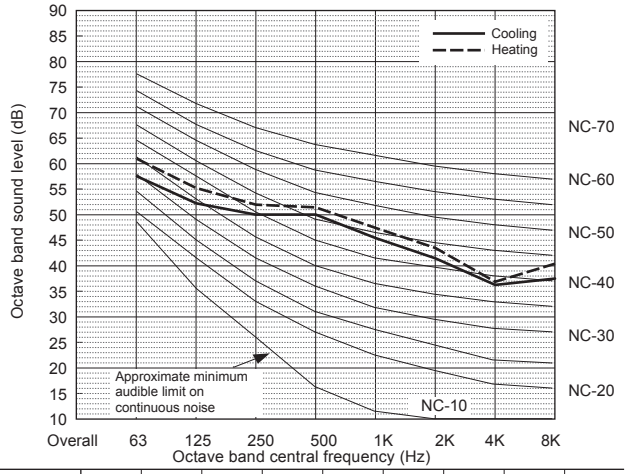
- When fault requiring inspection has occurred

The LED alternately indicates the inspection code and the location of the unit in which the fault has occurred.

Measurement condition
PUMY-P100,125,140YHMC-C/VHMC-S
P200,250YKMC-C

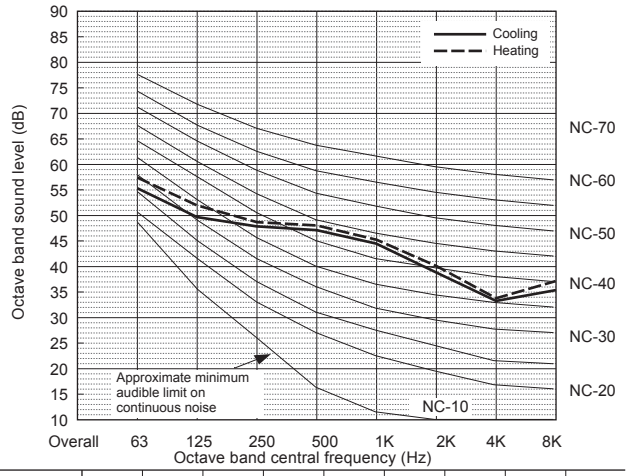


Sound level of PUMY-P140YHMC-C



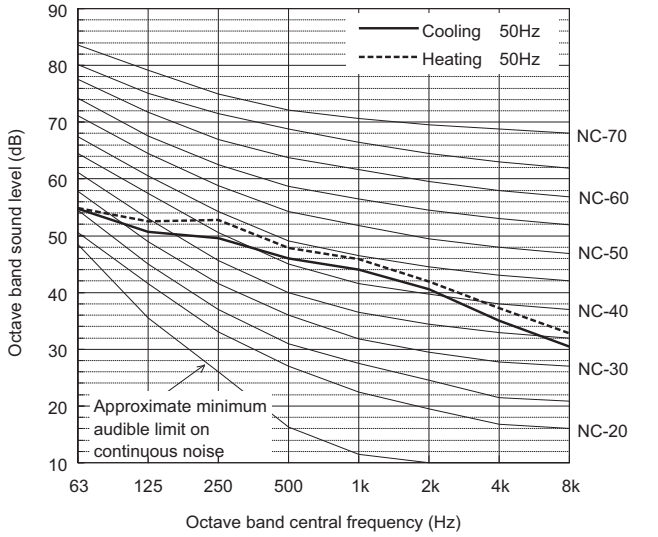
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
Cooling	57.2	51.7	49.9	49.8	45.5	41.1	35.9	37.1	51.0
Heating	60.9	55.4	52.1	51.4	47.5	43.2	37.1	40.3	53.0
Low Noise Mode 50Hz	-	-	-	-	-	-	-	-	-

Sound level of PUMY-P100YHMC-C



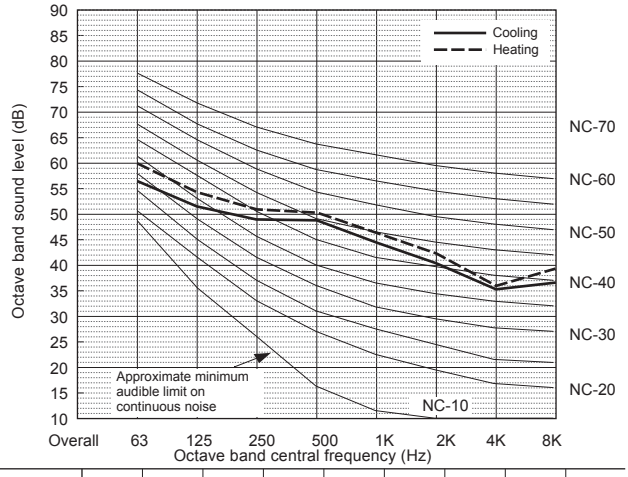
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
Cooling	55.2	49.7	47.9	47.8	43.5	39.1	33.9	35.1	49.0
Heating	58.9	53.4	50.1	49.4	45.5	41.2	35.1	38.3	51.0
Low Noise Mode 50Hz	-	-	-	-	-	-	-	-	-

Sound level of PUMY-P100VHMC-S



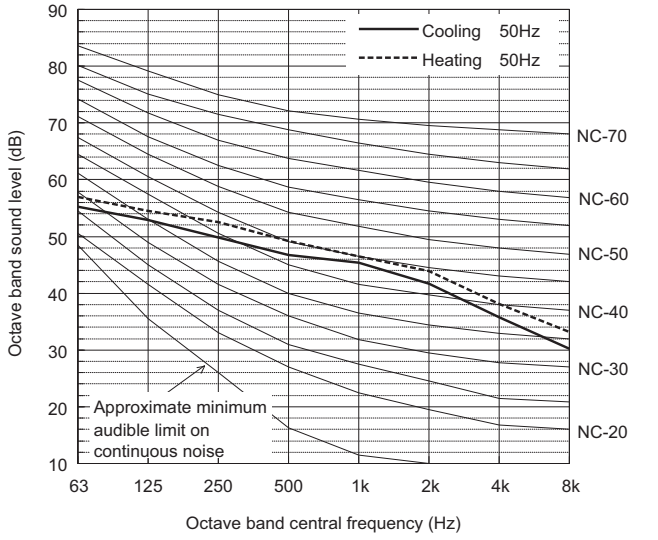
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard Cooling	50Hz	54.7	50.6	49.6	46.0	44.0	40.6	35.0	30.4	49.0
Standard Heating	50Hz	54.8	52.6	52.8	47.8	45.9	41.9	37.3	32.8	51.0

Sound level of PUMY-P125YHMC-C



	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
Cooling	56.2	50.7	48.9	48.8	44.5	40.1	34.9	36.1	50.0
Heating	59.9	54.4	51.1	50.4	46.5	42.2	36.1	39.3	52.0
Low Noise Mode 50Hz	-	-	-	-	-	-	-	-	-

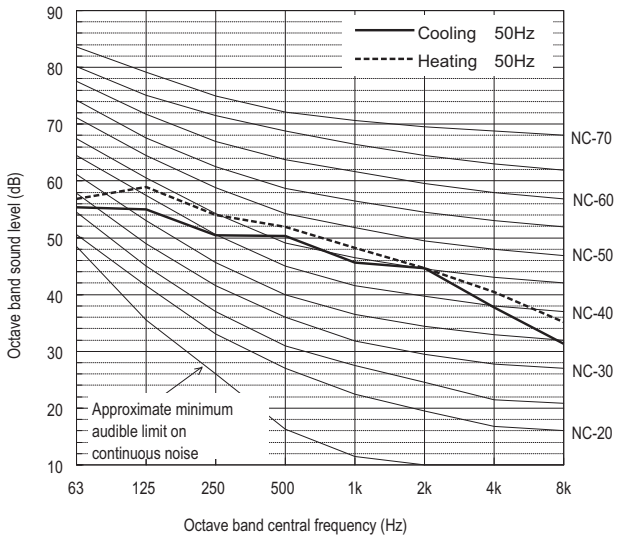
Sound level of PUMY-P125VHMC-S



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard Cooling	50Hz	55.2	52.9	49.8	46.8	45.4	41.6	35.7	30.3	50.0
Standard Heating	50Hz	57.0	54.5	52.6	49.2	46.5	43.9	38.2	33.2	52.0

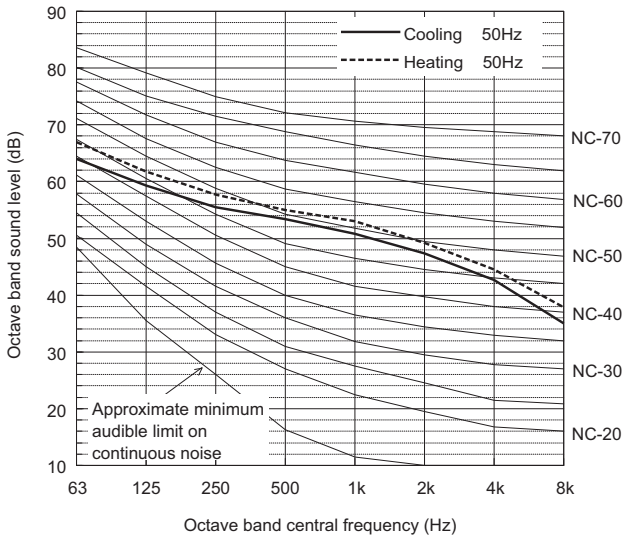
S

Sound level of PUMY-P140VHMC-S



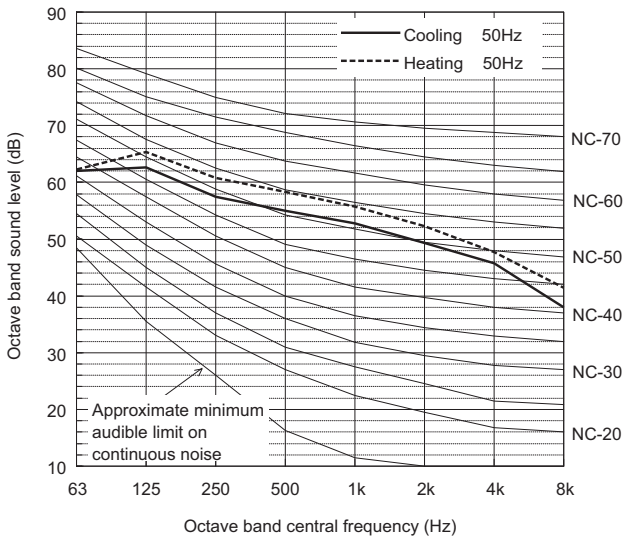
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard Cooling	50Hz	55.4	55.0	50.4	50.3	45.7	44.6	37.8	31.3	52.0
Standard Heating	50Hz	56.9	58.9	54.0	51.9	48.3	44.7	40.4	35.1	54.0

Sound level of PUMY-P200YKMC-C



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard Cooling	50Hz	64.1	59.3	55.5	53.5	50.9	47.4	42.7	35.1	56.0
Standard Heating	50Hz	67.0	61.8	57.8	55.1	53.1	49.2	44.6	37.9	58.0

Sound level of PUMY-P250YKMC-C



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard Cooling	50Hz	62.1	62.7	57.5	55.0	52.8	49.4	45.8	38.0	58.0
Standard Heating	50Hz	62.2	65.3	60.8	58.3	55.7	52.3	47.7	41.4	61.0

6. CAPACITY TABLES

6-1. Correction by temperature

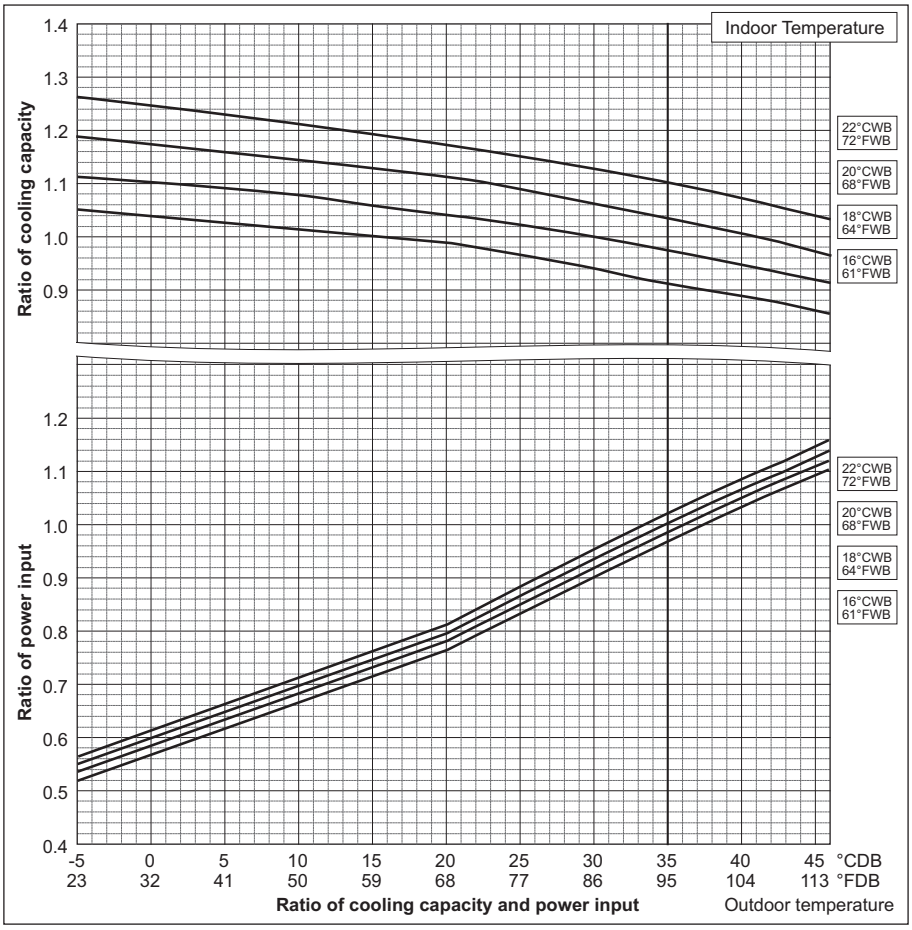
CITY MULTI could have various capacities at different designing temperatures. Using the nominal cooling/heating capacity values and the ratios below, the capacity can be found for various temperatures.

PUMY-		P100YHMC-C	P125YHMC-C
Nominal Cooling Capacity	kW	11.2	14.0
	kcal/h	9,600	12,000
	BTU/h	38,200	47,800
Input	kW	3.30	4.27

PUMY-		P140YHMC-C
Nominal Cooling Capacity	kW	15.5
	kcal/h	13,300
	BTU/h	52,900
Input	kW	5.32

PUMY-		P100VHMC-S	P125VHMC-S
Nominal Cooling Capacity	kW	11.2	14.0
	kcal/h	9,600	12,000
	BTU/h	38,200	47,800
Input	kW	3.27	4.66

PUMY-		P140VHMC-S
Nominal Cooling Capacity	kW	15.5
	kcal/h	13,300
	BTU/h	52,900
Input	kW	6.37

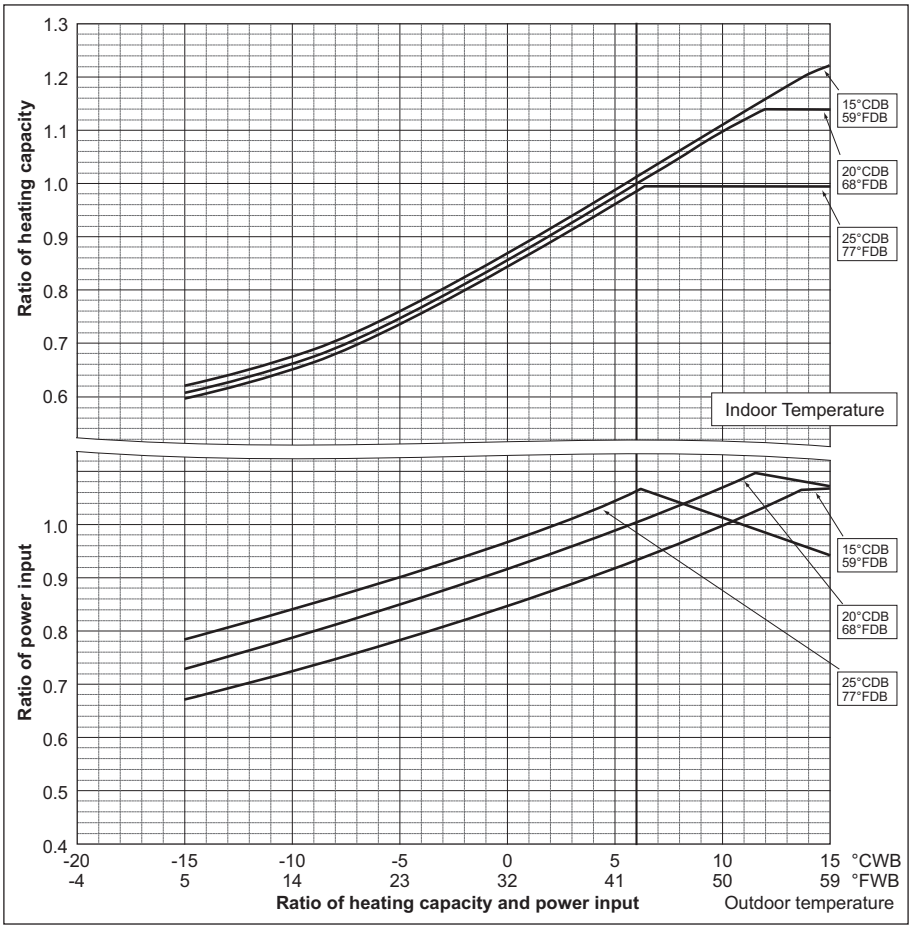


PUMY-		P100YHMC-C	P125YHMC-C
Nominal Heating Capacity	kW	12.5	16.0
	kcal/h	10,800	13,800
	BTU/h	42,700	54,600
Input	kW	3.63	4.29

PUMY-		P140YHMC-C
Nominal Heating Capacity	kW	18.0
	kcal/h	15,500
	BTU/h	61,400
Input	kW	5.32

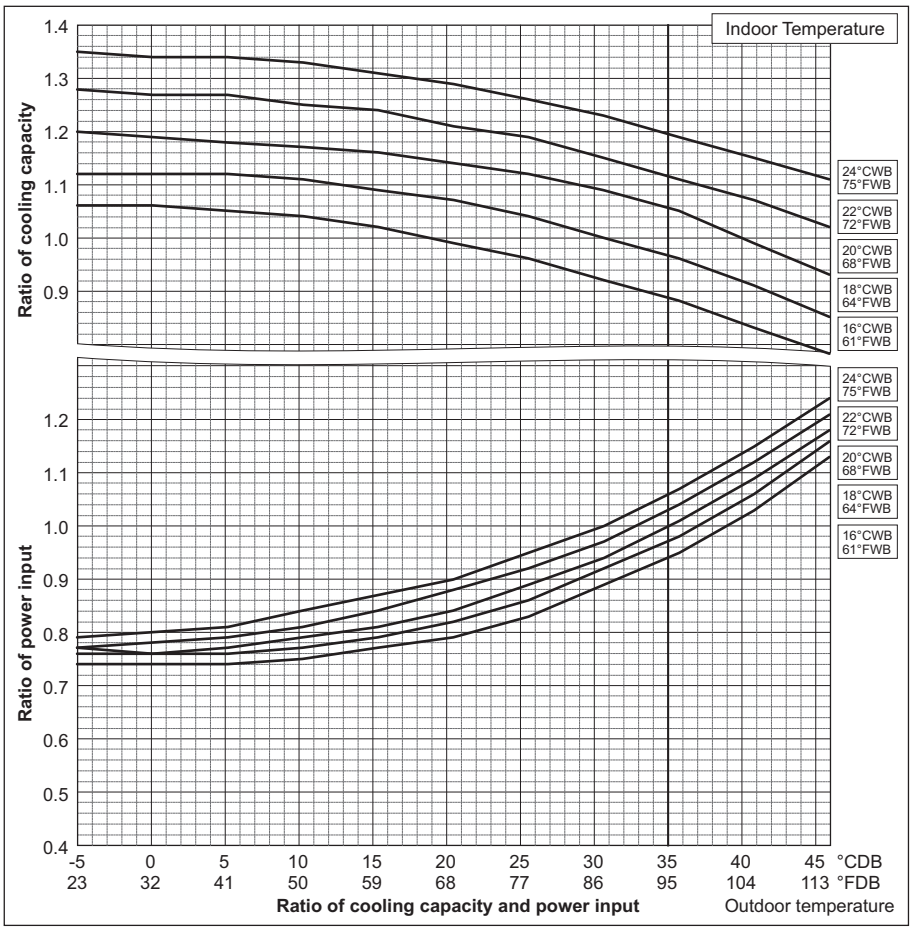
PUMY-		P100VHMC-S	P125VHMC-S
Nominal Heating Capacity	kW	12.5	16.0
	kcal/h	10,800	13,800
	BTU/h	42,700	54,600
Input	kW	3.41	4.57

PUMY-		P140VHMC-S
Nominal Heating Capacity	kW	18.0
	kcal/h	15,500
	BTU/h	61,400
Input	kW	5.59

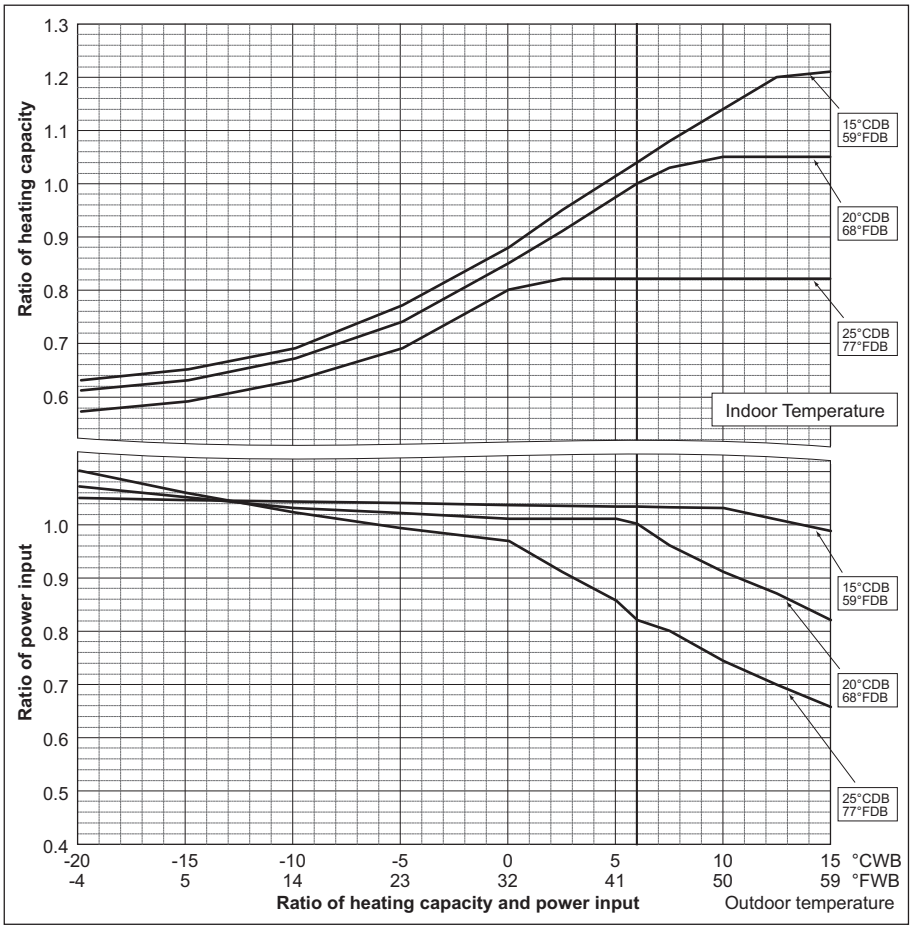


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PUMY-		P200YKMC-C	P250YKMC-C
Nominal Cooling Capacity	kW	22.4	25.0
	kcal/h	19,300	21,500
	BTU/h	76,400	85,300
Input	kW	8.39	10.34



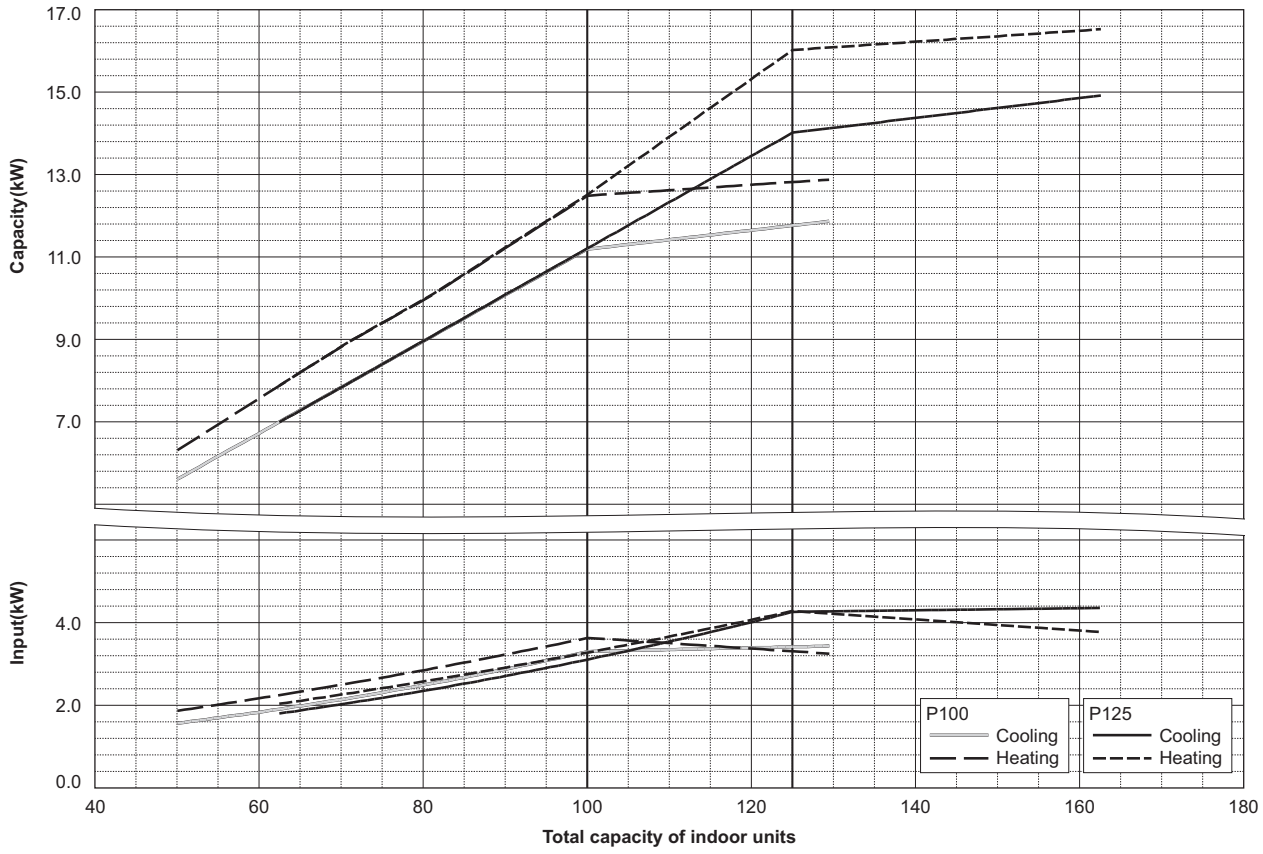
PUMY-		P200YKMC-C	P250YKMC-C
Nominal Heating Capacity	kW	25.0	27.3
	kcal/h	21,500	23,500
	BTU/h	85,300	93,100
Input	kW	6.24	7.26



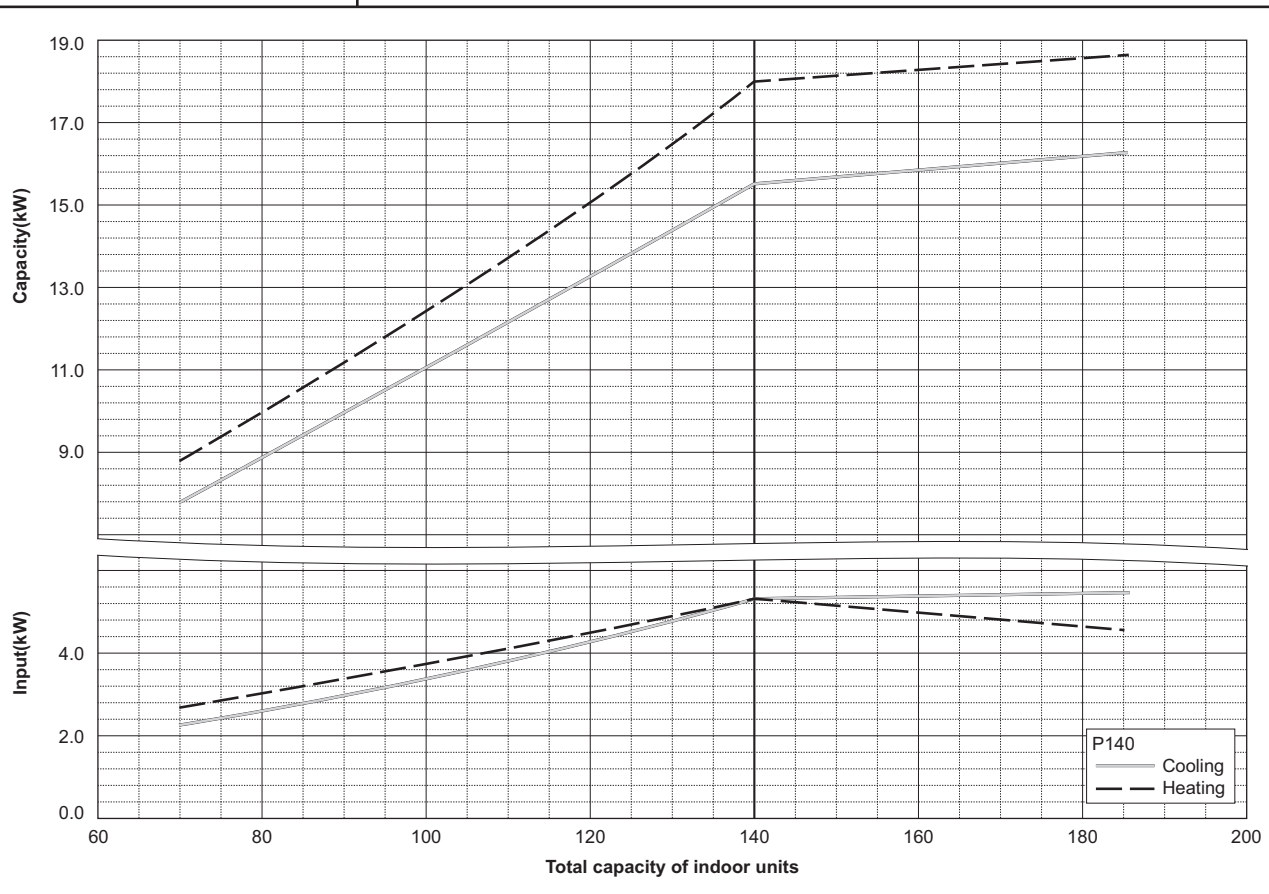
6-2. Correction by total indoor

CITY MULTI system have different capacities and inputs when many combinations of indoor units with different total capacities are connected. Using following tables, the maximum capacity can be found to ensure the system is installed with enough capacity for a particular application.

PUMY-P100,125YHMC-C

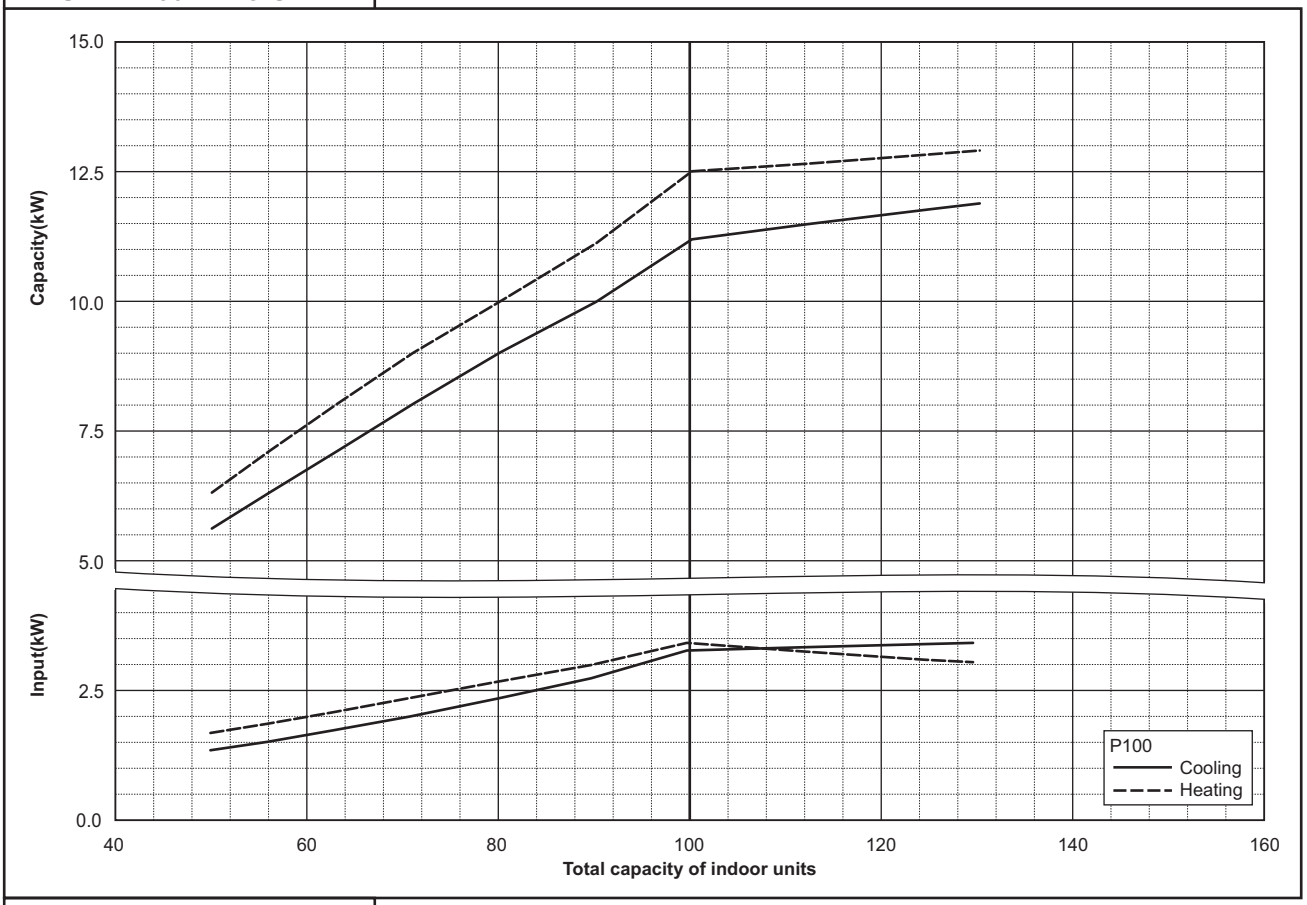


PUMY-P140YHMC-C

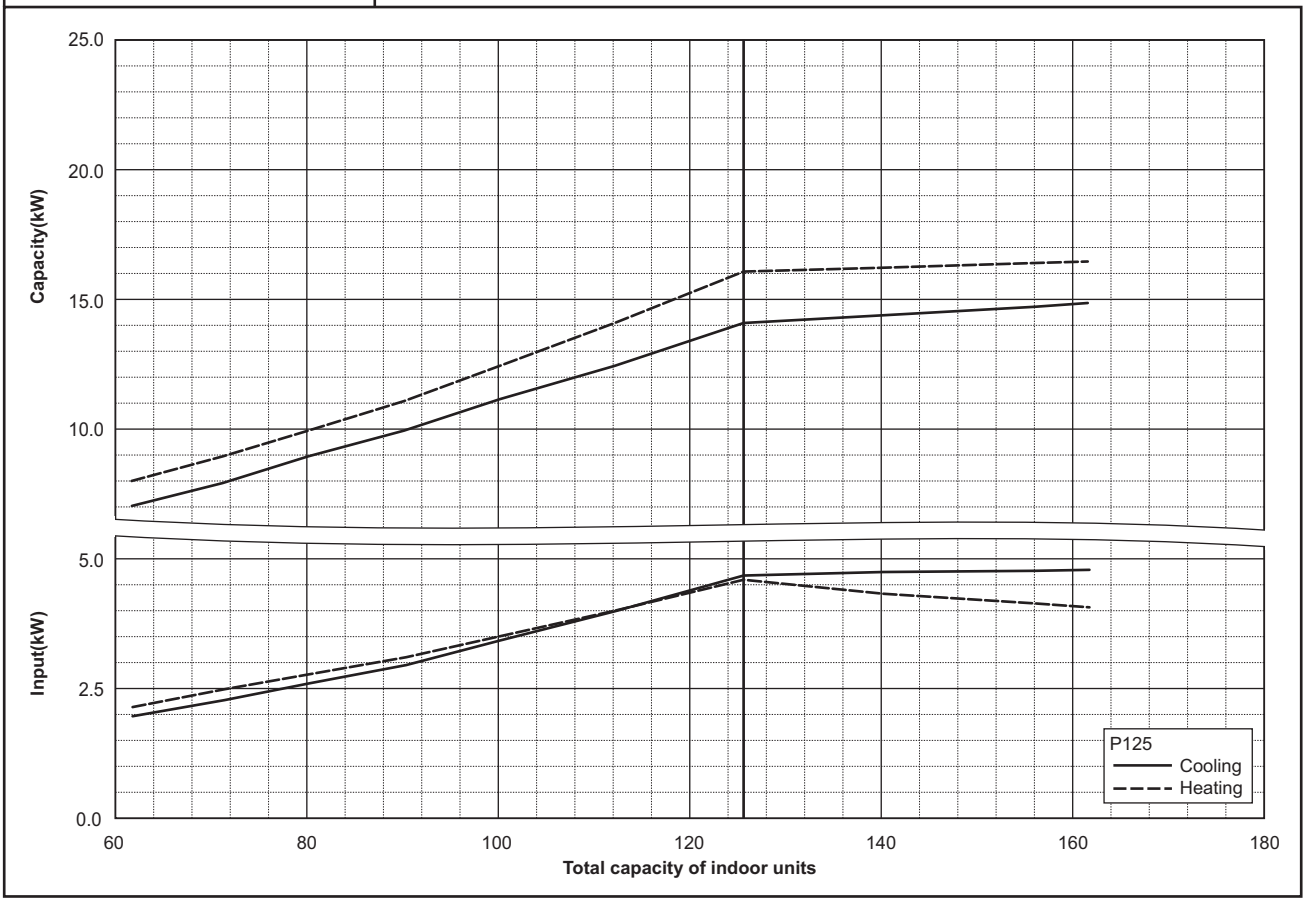


S

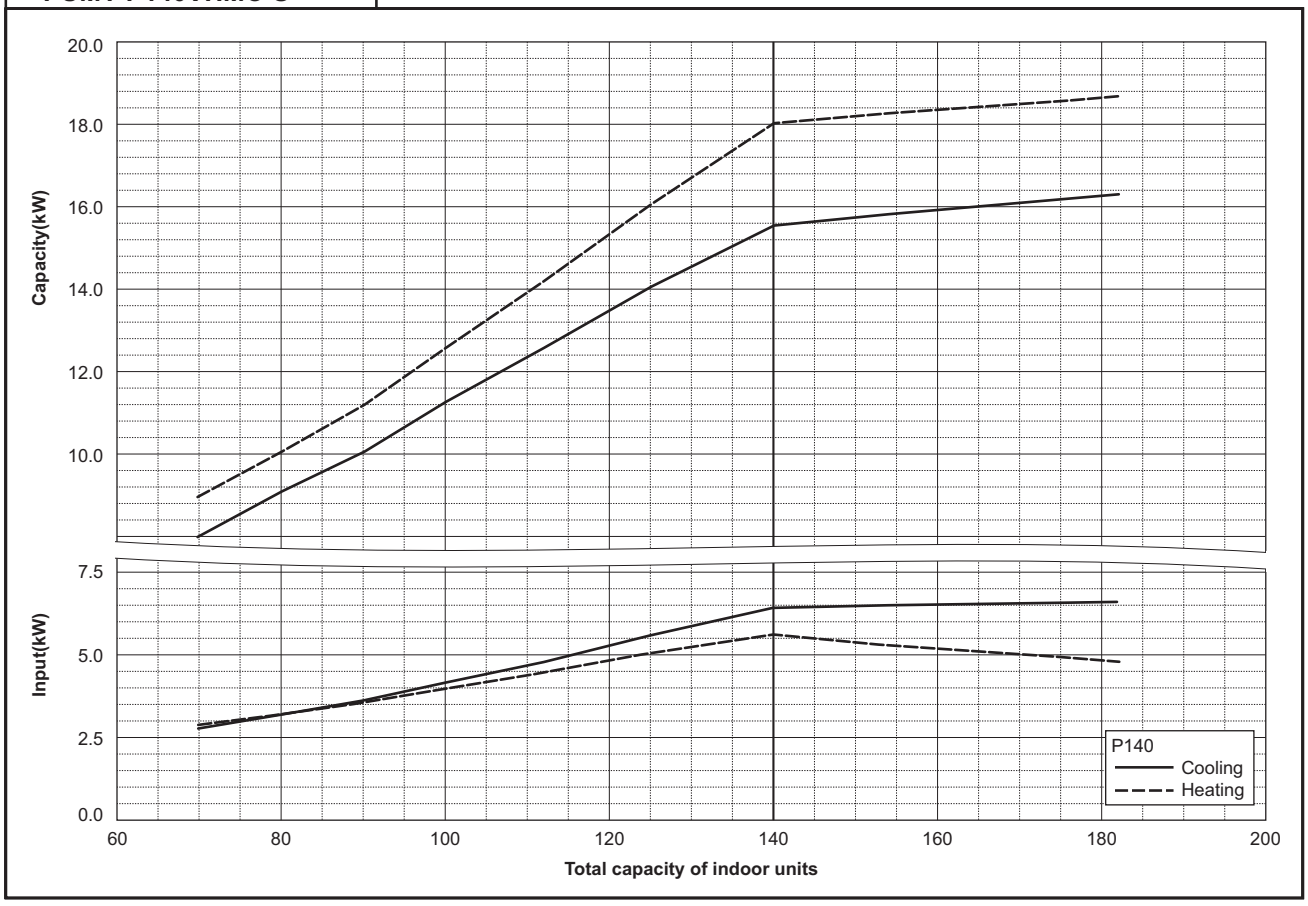
PUMY-P100VHMC-S



PUMY-P125VHMC-S

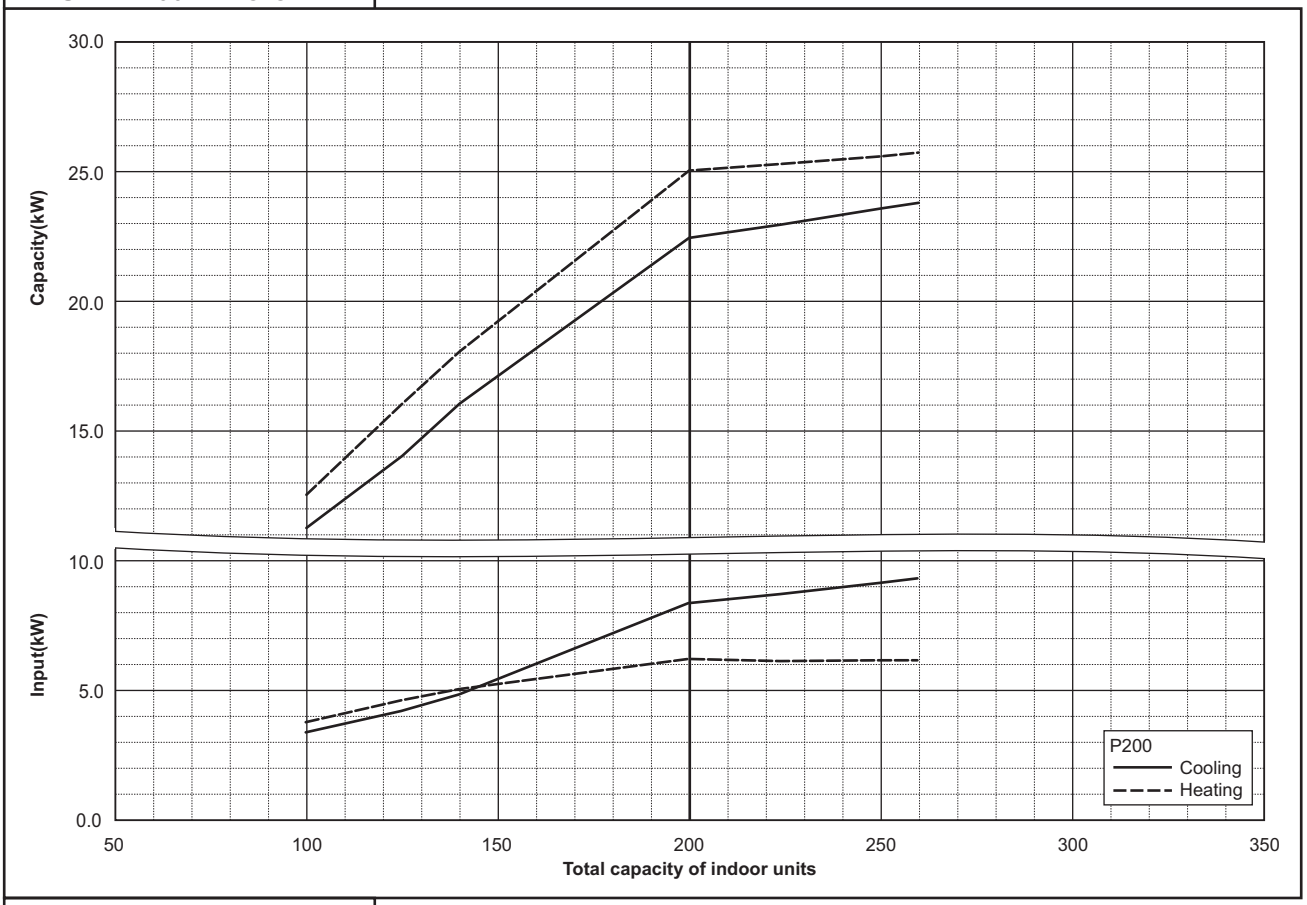


PUMY-P140VHMC-S

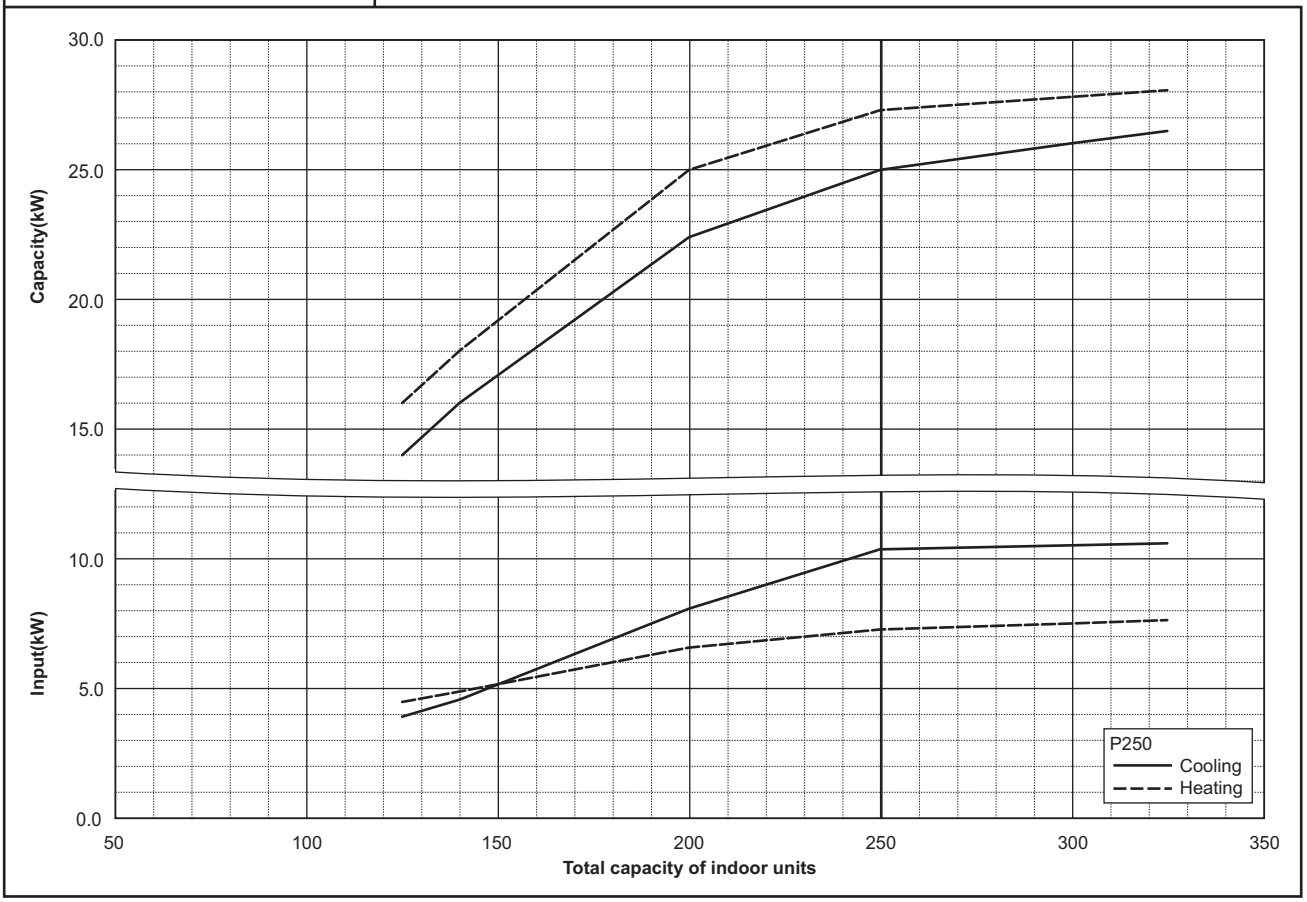


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PUMY-P200YKMC-C



PUMY-P250YKMC-C

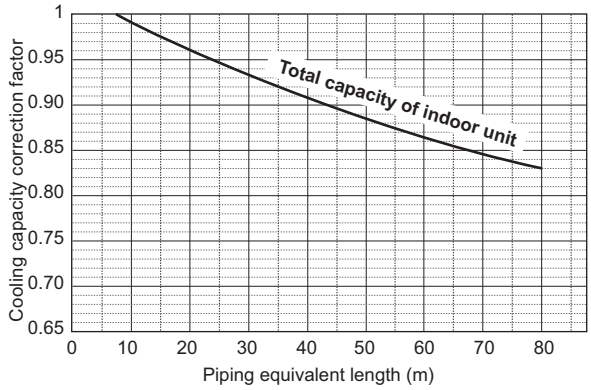


6-3. Correction by refrigerant piping length

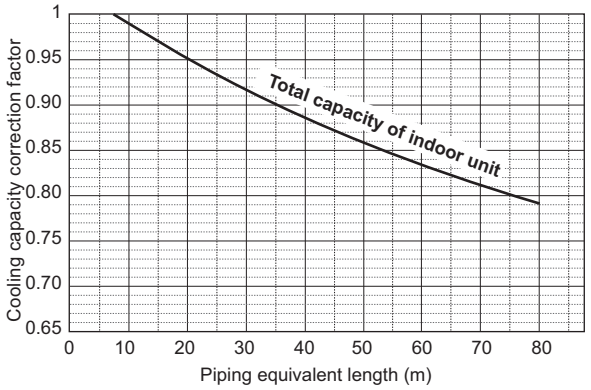
CITY MULTI systems can have extended piping lengths if certain limitations are followed, but cooling/heating capacity could be reduced. Using following correction factor by equivalent piping length shown at 6-3-1 and 6-3-2, capacity can be found. 6-3-3 shows how to obtain the equivalent piping length.

6-3-1. Cooling capacity correction

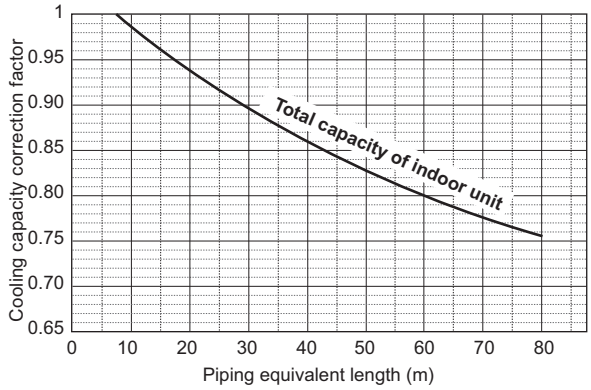
PUMY-P100YHMC-C/VHMC-S



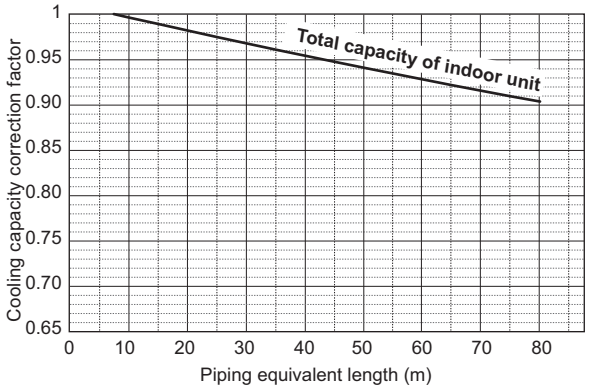
PUMY-P125YHMC-C/VHMC-S



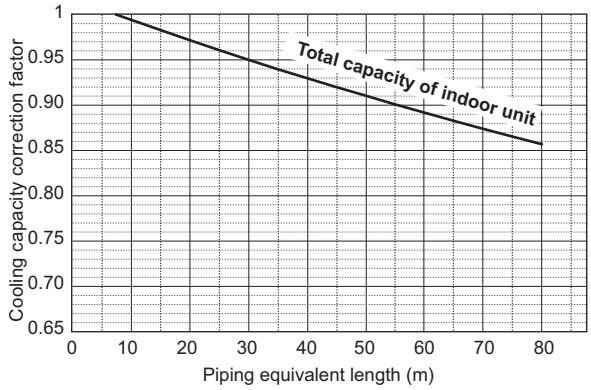
PUMY-P140YHMC-C/VHMC-S



PUMY-P200YKMC-C



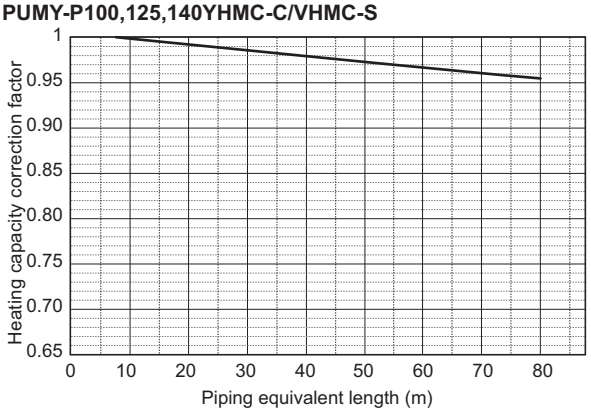
PUMY-P250YKMC-C



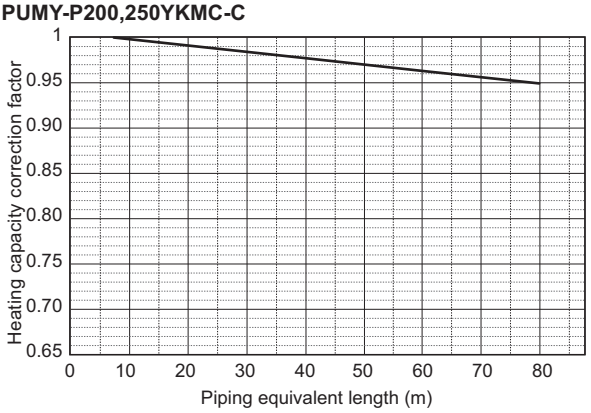
S

6-3-2. Heating capacity correction

PUMY-P100,125,140YHMC-C/VHMC-S



PUMY-P200,250YKMC-C



6-3-3. How to obtain the equivalent piping length

1. PUMY-P100, 125, 140YHMC-C/VHMC-S

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.30 x number of bends on the piping) m

2. PUMY-P200, 250YKMC-C

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.30 x number of bends on the piping) m

6-4. Correction at frost and defrost

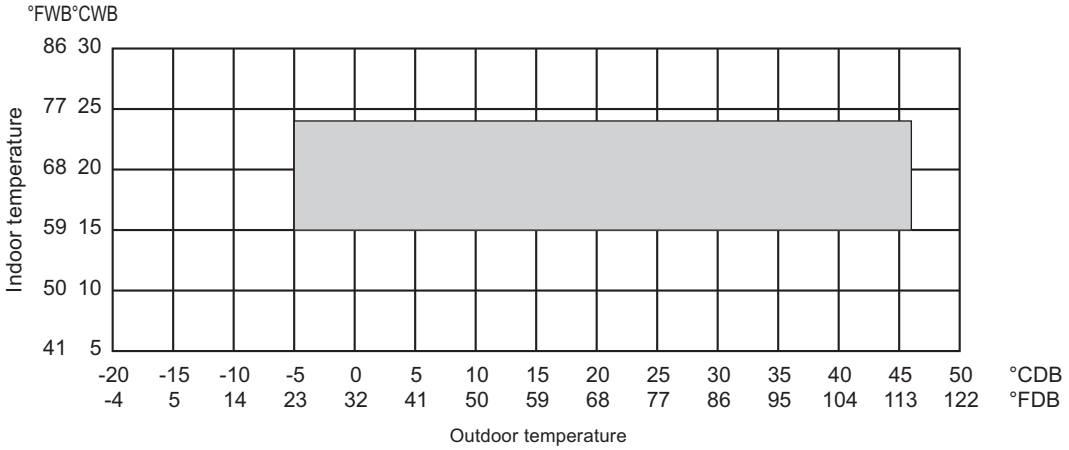
Due to frost at the outdoor heat exchanger and the automatical defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

Table of correction factor at frosting and defrosting

Outdoor inlet air temp. °C	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Outdoor inlet air temp. °F	43	39	36	34	32	28	25	21	18	14	-4
PUMY-P100, 125, 140YHMC-C	1.0	0.98	0.855	0.85	0.845	0.89	0.90	0.95	0.95	0.95	-
PUMY-P100, 125, 140VHMC-S	1.0	0.98	0.855	0.85	0.845	0.89	0.90	0.95	0.95	0.95	-
PUMY-P200, 250YKMC-C	1.0	0.98	0.89	0.88	0.88	0.89	0.90	0.95	0.95	0.95	0.95

6-5. Operation temperature range

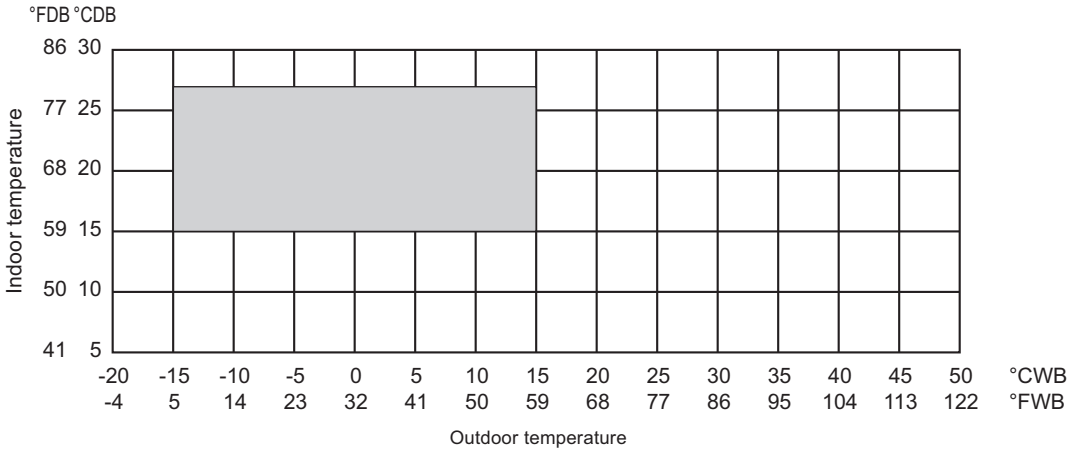
• Cooling



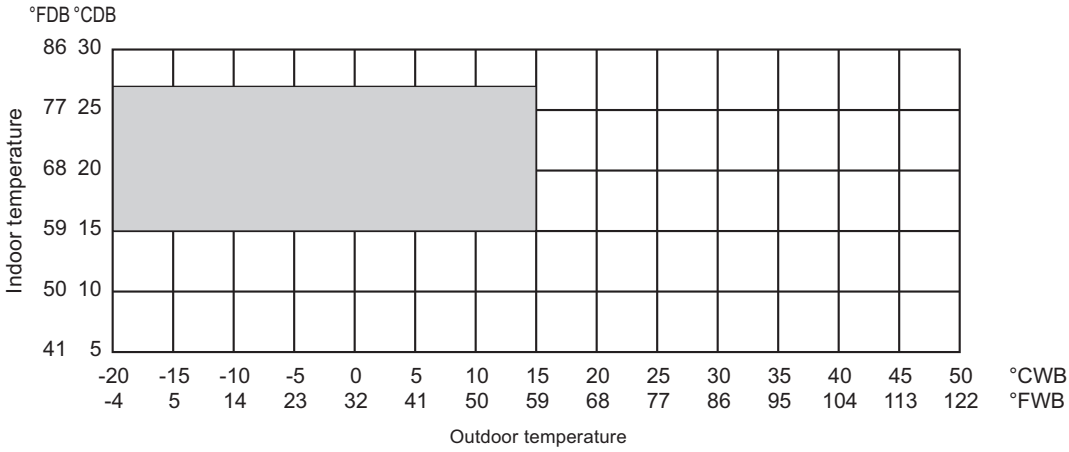
* 10 to 40°CDB (50 to 115°FDB): in case of connecting PKFY-P15/P20/P25 type indoor unit.

• Heating

PUMY-P100,125,140YHMC-C/VHMC-S



PUMY-P200,250YKMC-C



S

7-1. JOINT

CITY MULTI units can be easily connected by using Joint sets and Header sets provided by Mitsubishi Electric. One kind of Joint sets are available for use. Refer to section 3 in "System Design" or the Installation Manual that comes with the Joint set for how to install the Joint set.

CMY-Y62-G-E

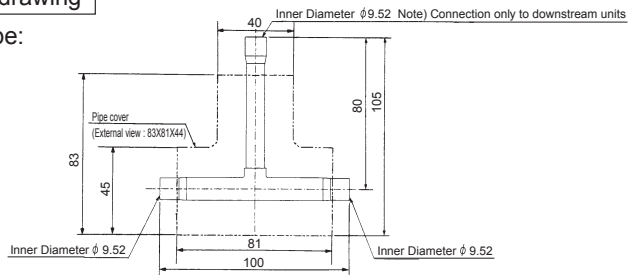
mm

1. Specification

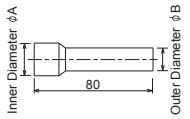
Items		Details
Main	Number of ports	2 ports
	Number of branch joints	One for each liquid and gas pipe
	Pipe material	Phosphorus deoxidized copper C1220T-OL (JIS H3300)
Accessory	Insulation material	Foamed polyethylene (one for each liquid and gas pipe)
	Reducer	10 reducers of 7 types (Refer to the external drawing for details.)

2. External drawing

For liquid pipe:

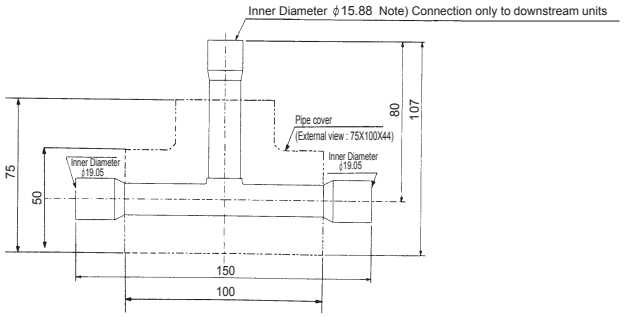


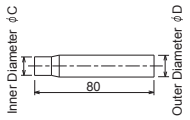
Reducer (Accessory):



A (Inner Diameter)	B (Outer Diameter)	Number of reducers
ϕ 12.7	ϕ 9.52	2
ϕ 19.05	ϕ 15.88	1
ϕ 22.22	ϕ 19.05	1

For gas pipe:





C (Inner Diameter)	D (Outer Diameter)	Number of reducers
ϕ 6.35	ϕ 9.52	2
ϕ 12.7	ϕ 15.88	1
ϕ 12.7	ϕ 19.05	1
ϕ 15.88	ϕ 19.05	2

7-2. HEADER

CITY MULTI units can be easily connected by using Joint sets and Header sets provided by Mitsubishi Electric. Two kinds of Header sets are available for use. Refer to section 3 in "System Design" or the Installation Manual that comes with the Header set for how to install the Header set.

S

CMY-Y64-G-E

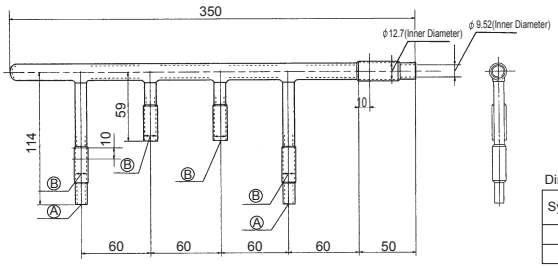
mm

1. Specification

Items		Details
Main	Number of ports	3 ~ 4 ports
	Number of branch joints	One for each liquid and gas pipe
	Pipe material	Phosphorus deoxidized copper C1220T-OL (JIS H3300)
Accessory	Insulation material	Foamed polyethylene
	Reducer	7 reducers of 5 types
	Cap	2 caps of 2 different types for each liquid and gas pipe 4 caps in total

2. External drawing

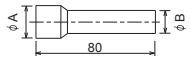
For liquid pipe:



Dimension table

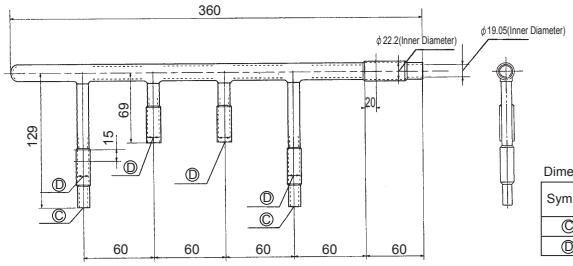
Symbol	Inner Diameter (mm)
Ⓐ	ϕ 6.35
Ⓑ	ϕ 9.52

Reducer (Accessory):



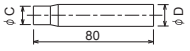
A (Inner Diameter)	B (Outer Diameter)	Number of reducers
ϕ 19.05	ϕ 15.88	1
ϕ 15.88	ϕ 12.7	2
ϕ 9.52	ϕ 6.35	2

For gas pipe:



Dimension table

Symbol	Inner Diameter (mm)
Ⓒ	ϕ 12.7
Ⓓ	ϕ 15.88



C (Inner Diameter)	D (Outer Diameter)	Number of reducers
ϕ 15.88	ϕ 19.05	1
ϕ 9.52	ϕ 12.7	1

CMY-Y68-G-E

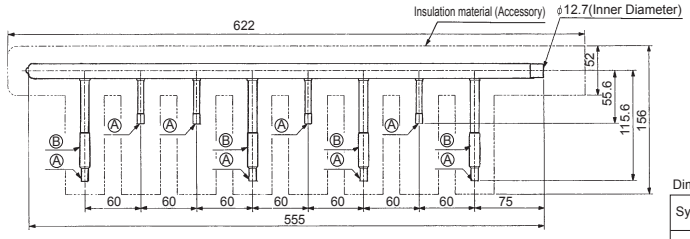
mm

1. Specification

Items		Details
Main	Number of ports	5 ~ 8 ports
	Number of branch joints	One for each liquid and gas pipe
	Pipe material	Phosphorus deoxidized copper C1220T-OL (JIS H3300)
Accessory	Insulation material	Foamed polyethylene
	Reducer	3 reducers of 3 types
	Cap	3 caps for each liquid and gas pipe 6 in total

2. External drawing

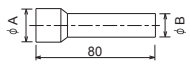
For liquid pipe:



Dimension table

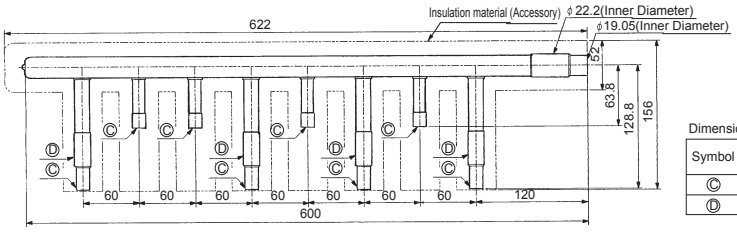
Symbol	Inner Diameter (mm)
Ⓐ	ϕ 6.35
Ⓑ	ϕ 9.52

Reducer (Accessory):



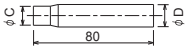
A (Inner Diameter)	B (Outer Diameter)	Number of reducers
ϕ 19.05	ϕ 15.88	1
ϕ 12.7	ϕ 9.52	1

For gas pipe:



Dimension table

Symbol	Inner Diameter (mm)
Ⓒ	ϕ 12.7
Ⓓ	ϕ 15.88



C (Inner Diameter)	D (Outer Diameter)	Number of reducers
ϕ 15.88	ϕ 19.05	1

OUTDOOR UNITS

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1. SPECIFICATIONS

Model			PUHY-P300YRJC-A	PUHY-P350YRJC-A
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	30.0 (Maximum 33.5)	35.0 (Maximum 40.0)
	*1	kcal/h	25,800 (Maximum 28,800)	30,100 (Maximum 34,400)
	*1	BTU/h	102,400 (Maximum 114,300)	119,400 (Maximum 136,500)
	Power input	kW	9.25	10.29
	Current input	A	15.6-14.8-14.2	17.3-16.5-15.9
	COP	kW/kW	3.24	3.40
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)
	Outdoor	D.B.	-5.0~46.0 °C (23~115 °F)	-5.0~46.0 °C (23~115 °F)
Heating capacity (Nominal)	*2	kW	31.5	37.5
	*2	kcal/h	27,100	32,300
	*2	BTU/h	107,500	128,000
	Power input	kW	7.83	9.71
	Current input	A	13.2-12.5-12.1	16.3-15.5-15.0
	COP	kW/kW	4.02	3.86
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
	Model / Quantity		P15~P140/2~18	P15~P140/2~18
Sound pressure level (measured in anechoic room)		dB <A>	59	60
Power pressure level (measured in anechoic room)		dB <A>	79	80
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52(3/8) Brazed (12.7(1/2) Brazed,total length >= 40m)	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2(7/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m^3/min	185	185
		L/s	3,083	3,083
		cfm	6,532	6,532
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.35 x 1	0.35 x 1
*3	External static press.		0 Pa (0 mmH_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Manufacture		MITSUBISHI ELECTRIC CORPORATION	MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter	Inverter
	Motor output	kW	8.2	10.3
	Case heater	kW	0.035	0.045
	Lubricant		MEL32	MEL32
External finish			Pre-coated galvanized steel sheets <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD		mm	1,650 x 920 x 760	1,650 x 920 x 760
		in.	65 x 36-1/4 x 29-15/16	65 x 36-1/4 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection
	Compressor		-	-
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 9.0 kg (20 lbs)	R410A x 9.0 kg (20 lbs)
	Control		LEV and HIC circuit	LEV and HIC circuit
Net weight		kg (lbs)	200 (441)	214 (472)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe,tube-in-tube structure	Copper pipe,tube-in-tube structure
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	Auto-defrost mode (Reversed refrigerant cycle)
Drawing	External		WKD94L658	WKD94L658
	Wiring		KE94C581	KE94C581
Standard attachment	Document		Installation Manual	Installation Manual
	Accessory		Refrigerant conn. pipe	Refrigerant conn. pipe
Optional parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice.	

Notes :

1. Nominal cooling conditions (subject to GB/T 18837)
   Indoor: 27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.), Outdoor: 35 °CD.B. (95 °FD.B.)
   Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2. Nominal heating conditions (subject to GB/T 18837)
   Indoor: 20 °CD.B. (68°FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)
   Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
3. External static pressure option is available (30Pa, 60Pa / 3.1mmH_2O, 6.1mmH_2O).

Unit converter

kcal	=kW x 860
BTU/h	=kW x 3,412
cfm	=m^3/min x 35.31
lbs	=kg / 0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model			PUHY-P400YRJC-A	PUHY-P450YRJC-A
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	40.0 (Maximum 45.0)	45.0 (Maximum 50.0)
	*1	kcal/h	34,400 (Maximum 38,700)	38,700 (Maximum 43,000)
	*1	BTU/h	136,500 (Maximum 153,500)	153,500 (Maximum 170,600)
	Power input	kW	11.86	14.34
	Current input	A	20.0-19.0-18.3	24.2-22.9-22.1
	COP	kW/kW	3.37	3.13
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)
	Outdoor	D.B.	-5.0~46.0 °C (23~115 °F)	-5.0~46.0 °C (23~115 °F)
Heating capacity (Nominal)	*2	kW	50.0	52.0
	*2	kcal/h	43,000	44,700
	*2	BTU/h	170,600	177,400
	Power input	kW	13.47	15.85
	Current input	A	22.7-21.6-20.8	26.7-25.4-24.5
	COP	kW/kW	3.71	3.28
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
	Model / Quantity		P15~P140/2~18	P15~P140/2~18
Sound pressure level (measured in anechoic room)		dB <A>	61	62
Power pressure level (measured in anechoic room)		dB <A>	81	82
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7(1/2) Brazed	15.88(5/8) Brazed
	Gas pipe	mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m^3/min	225	225
		L/s	3,750	3,750
		cfm	7,945	7,945
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.46 x 1	0.46 x 1
*3	External static press.		0 Pa (0 mmH_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Manufacture		MITSUBISHI ELECTRIC CORPORATION	MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter	Inverter
	Motor output	kW	10.5	12.0
	Case heater	kW	0.045	0.045
	Lubricant		MEL32	MEL32
External finish			Pre-coated galvanized steel sheets <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD		mm	1,650 x 1,220 x 760	1,650 x 1,220 x 760
		in.	65 x 48-1/16 x 29-15/16	65 x 48-1/16 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection
	Compressor		-	-
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)
	Control		LEV and HIC circuit	LEV and HIC circuit
Net weight		kg (lbs)	251 (554)	251 (554)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe,tube-in-tube structure	Copper pipe,tube-in-tube structure
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	Auto-defrost mode (Reversed refrigerant cycle)
Drawing	External		WKD94L659	WKD94L659
	Wiring		KE94C581	KE94C581
Standard attachment	Document		Installation Manual	Installation Manual
	Accessory		Refrigerant conn. pipe	Refrigerant conn. pipe
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice.	

Notes :

1.Nominal cooling conditions (subject to GB/T 18837)
Indoor: 27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.), Outdoor: 35 °CD.B. (95 °FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to GB/T 18837)
Indoor: 20 °CD.B. (68°FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
3.External static pressure option is available (30Pa, 60Pa / 3.1mmH_2O, 6.1mmH_2O).

Unit converter

kcal	=kW x 860
BTU/h	=kW x 3,412
cfm	=m^3/min x 35.31
lbs	=kg / 0.4536

*Above specification data is subject to rounding variation.

2. EXTERNAL DIMENSIONS

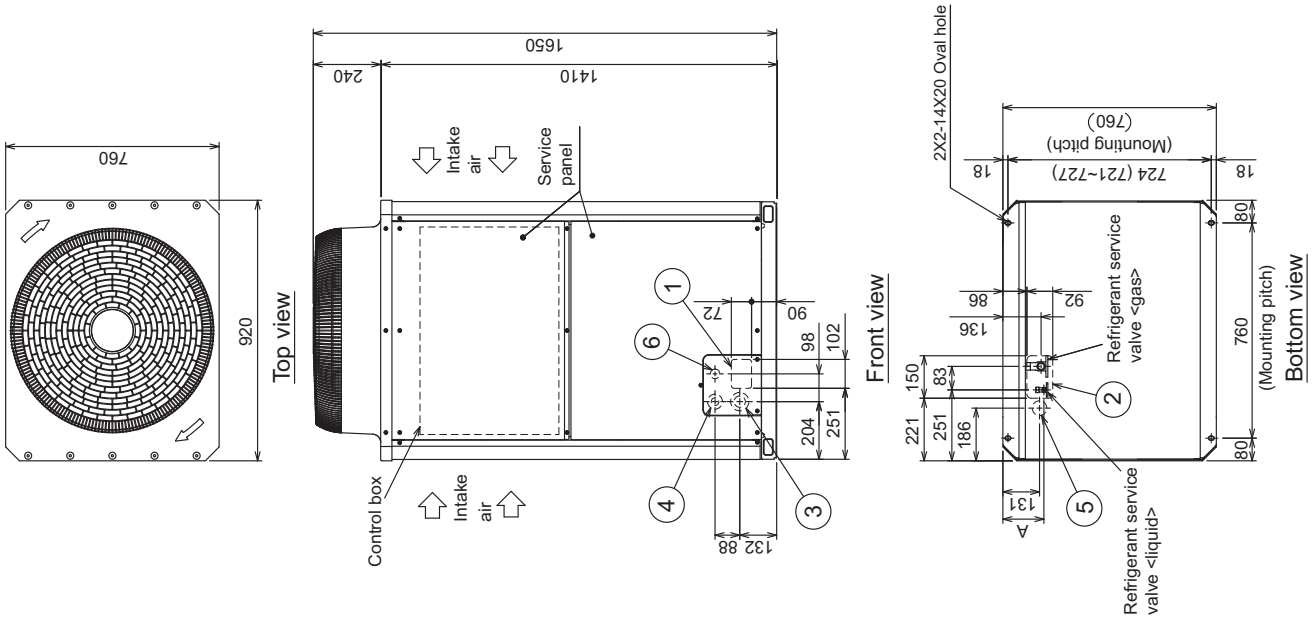
PUHY-P300, 350YRJC-A

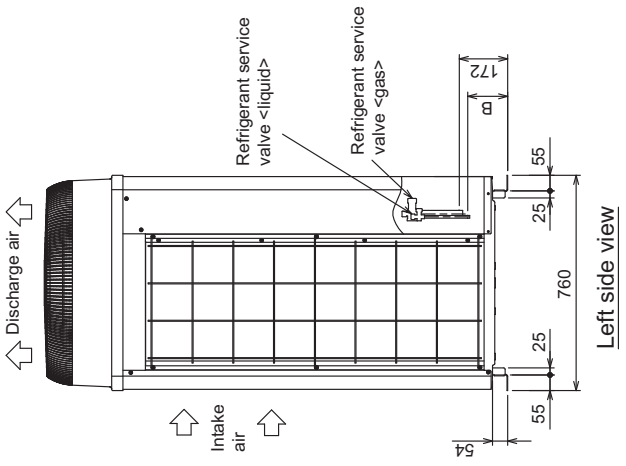
Unit : mm

<Accessories>
●Connecting pipe
<Gas> •Elbow (ID25.4XOD25.4)·····P300,P350 1pc.
•Pipe (ID25.4XOD22.2)·····P300 1pc.
•Pipe (ID25.4XOD28.58)·····P350 1pc.
<Liquid> •Pipe (ID9.52XOD9.52)·····P300 1pc.
•Pipe (ID9.52XOD12.7)·····P300 1pc.
•Pipe (ID12.7XOD12.7)·····P350 1pc.

Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. At brazing of pipes,wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C.

NO.	Usage		Specifications
①	For pipes	Front through hole	102X72 Knockout hole
②		Bottom through hole	150X92 Knockout hole
③	For wires	Front through hole	ø65 or ø40 Knockout hole
④		Front through hole	ø52 or ø27 Knockout hole
⑤		Bottom through hole	ø52 Knockout hole
⑥	For transmission cables	Front through hole	ø34 Knockout hole





Connecting pipe specifications

Model	Position dimensions for the refrigerant service valve		Connection specifications for the refrigerant service valve *1	
	Liquid		Liquid	Gas
	A	B		
PUHY-P300YRJC-A	146	142	ø9.52 Brazed (ø12.7 Brazed) *2	ø22.2 Brazed
PUHY-P350YRJC-A	142	143	ø12.7 Brazed	ø28.58 Brazed

*1 Connect by using the connecting pipes (for bottom piping and front piping) that are supplied.
*2 Total length ≧ 40m

PUHY-P300, 350YRJC-A

Unit : mm

1.Required space around the unit

●In case of single installation

①Secure enough space around the unit as shown in the figure below.

- With a space of at least 300mm to the wall on the back of the unit
- With a space of at least 100mm to the wall on the back of the unit

<Top view>

<Unit:mm>

②When the height of the walls on the front,back or on the sides<H> exceeds the wall height limit as defined below add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.

<Wall height limit> Front :Up to the unit height
Back :Up to 500mm from the unit bottom
Side :Up to the unit height

<Side view>

●In case of collective installation

①When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
②At least two sides must be left open.
③As with the single installation, add the height that exceeds the height limit<h> to the figures that are marked with an asterisk.

<To be left open>

<Unit:mm>

Fig.A

Fig.B

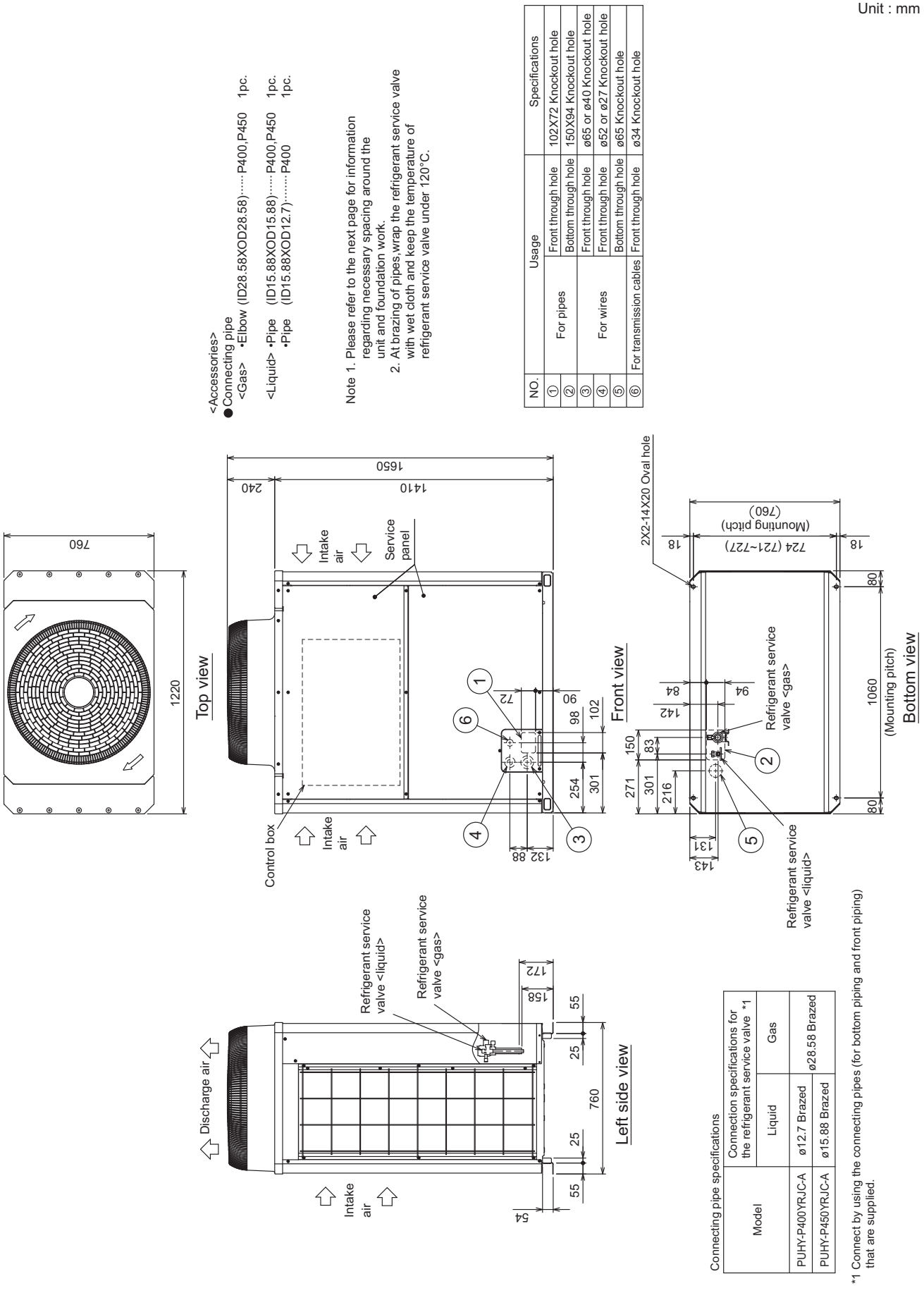
2.Foundation work

①Take into consideration the surface strength,water drainage route, piping route,and wiring route when preparing the installation site. <Note that the drain water comes out of the unit during operation.>
②Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure. (Fig.A) When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
③The protrusion length of the anchor bolt must not exceed 30mm. (Fig.A)
④Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts. (Fig.B)
⑤To prevent small animals and water and snow from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
⑥When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
⑦Refer to the Installation Manual when installing units on an installation base.

2. EXTERNAL DIMENSIONS

PUHY-P400, 450YRJC-A

Unit : mm



PUHY-P400, 450YRJC-A

Unit : mm

1.Required space around the unit

● In case of single installation

①Secure enough space around the unit as shown in the figure below.

•With a space of at least 300mm to the wall on the back of the unit

•With a space of at least 100mm to the wall on the back of the unit

<Top view>

<Unit:mm>

②When the height of the walls on the front,back or on the sides<H> exceeds the wall height limit as defined below add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.

<Wall height limit> Front:Up to the unit height
Back :Up to 500mm from the unit bottom
Side :Up to the unit height

<Side view>

● In case of collective installation

①When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
②At least two sides must be left open.
③As with the single installation, add the height that exceeds the height limit<h> to the figures that are marked with an asterisk.

<To be left open>

<Unit:mm>

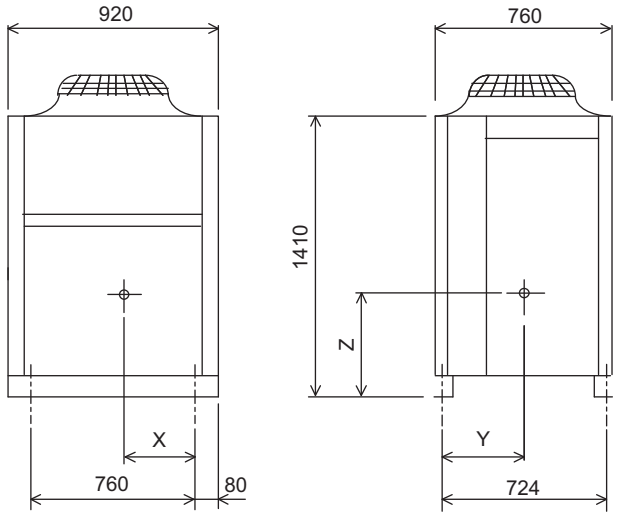
Fig.A

Fig.B

2.Foundation work

①Take into consideration the surface strength,water drainage route, piping route,and wiring route when preparing the installation site. <Note that the drain water comes out of the unit during operation.>
②Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure.(Fig.A) When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
③The protrusion length of the anchor bolt must not exceed 30mm.(Fig.A)
④Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts.(Fig.B)
⑤To prevent small animals and water and snow from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
⑥When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
⑦Refer to the Installation Manual when installing units on an installation base.

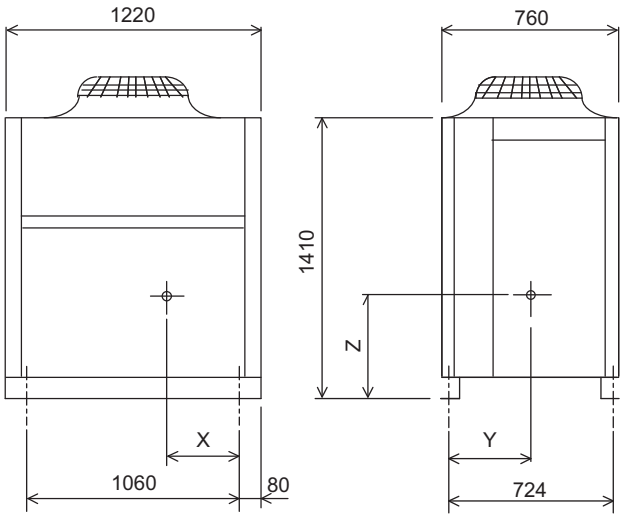
PUHY-P300, 350YRJC-A



Unit:mm

Model	X	Y	Z
PUHY-P300YRJC-A	334	329	592
PUHY-P350YRJC-A	320	318	574

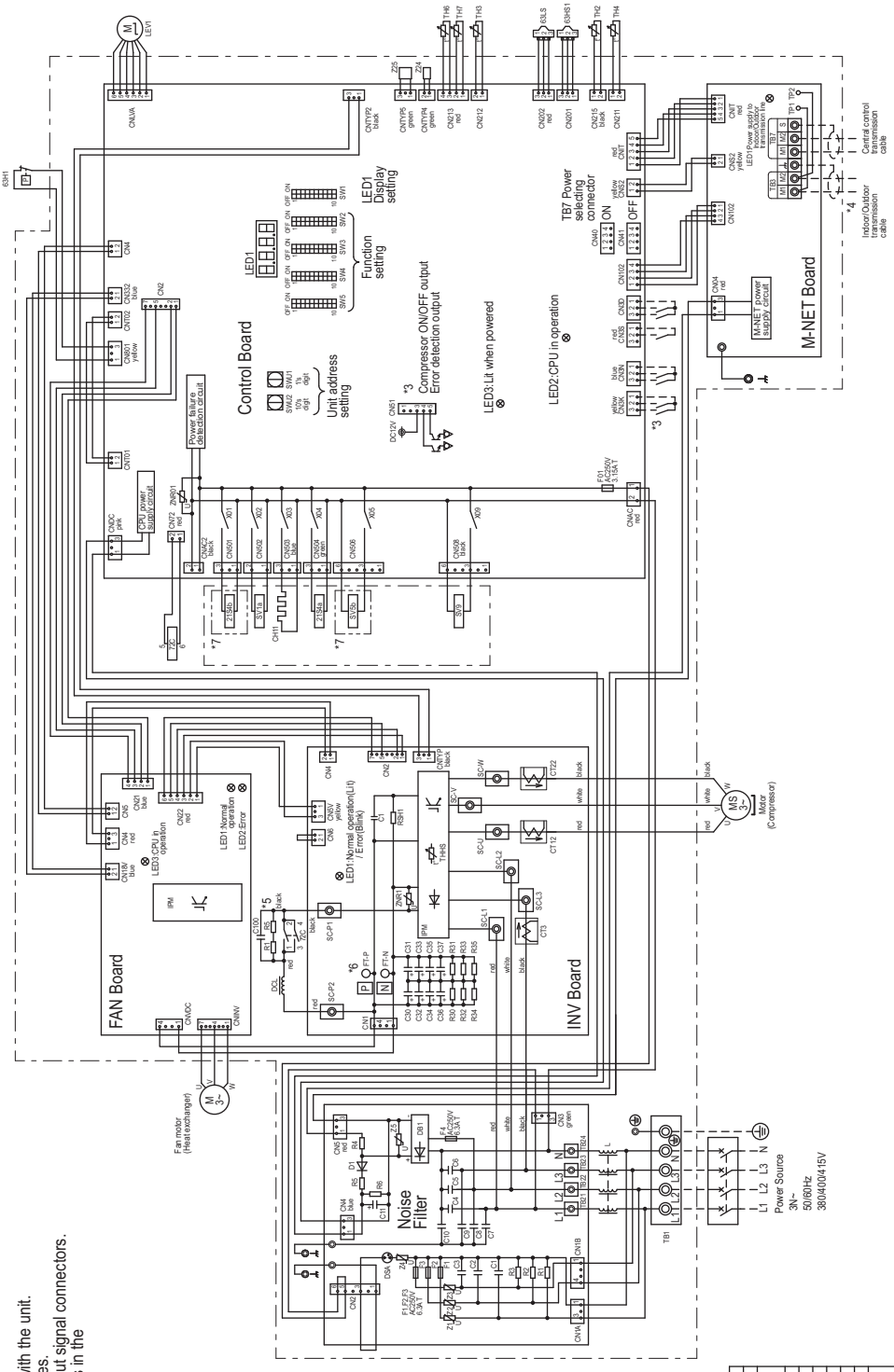
PUHY-P400, 450YRJC-A



Unit:mm

Model	X	Y	Z
PUHY-P400YRJC-A	437	332	562
PUHY-P450YRJC-A	437	332	562

PUHY-P300, 350, 400, 450YRJC-A



*1. Single-dotted lines indicate wiring not supplied with the unit.
*2. Dot-dash lines indicate the control box boundaries.
*3. Refer to the Data book for connecting input/output signal connectors.
*4. Daisy-chain terminals (TB3) on the outdoor units in the same refrigerant system together.
*5. Faston terminals have a locking function. Make sure the terminals are securely locked in place after insertion. Press the tab on the terminals to remove them.
*6. Control box houses high-voltage parts. Before inspecting the inside of the control box,turn off the power, keep the unit off for at least 10 minutes, and confirm that the voltage between FT-P and FT-N on INV Board has dropped to DC20V or less.
*7. Difference of appliance

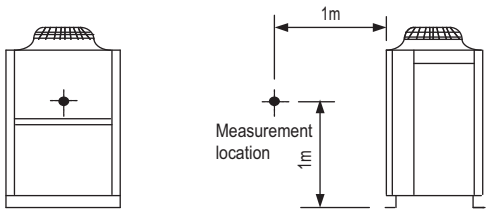
Model name	Appliance
P300/P350	*7 do not exist
P400/P450	*7 exist

<Symbol explanation>

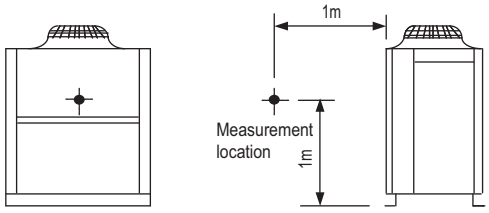
Symbol		Explanation
21S4a,b		4-way valve(Cooling/Heating switching)
63H1	Pressure switch	High pressure protection for the outdoor unit
63HS1	Pressure sensor	Discharge pressure
63LS		Low pressure
72C		Magnetic relay(inverter main circuit)
CT12,22,3		Current sensor(AC)
CH11		Crankcase heater(for heating the compressor)
DCL		DC reactor
LEV1	Linear expansion valve	HIC bypass,Controls refrigerant flow in HIC circuit
SV1a	Solenoid valve	For opening/closing the bypass circuit under the O/S
SV5b		Outdoor unit heat exchanger capacity control
SV9		For opening/closing the bypass circuit
TB1	Terminal block	Power supply
TB3		Indoor/Outdoor transmission cable
TB7		Central control transmission cable
TH2	Thermistor	Subcool bypass outlet temperature
TH3		Pipe temperature
TH4		Discharge pipe temperature
TH6		Subcooled liquid refrigerant temperature
TH7		OA temperature
THHS		IPM temperature
Z24,25		Function setting connector

Y

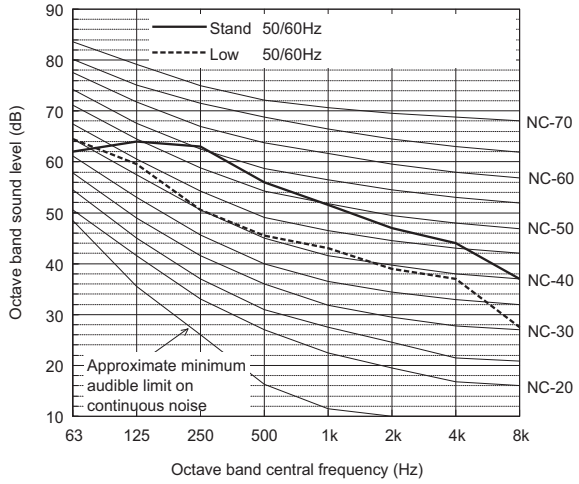
Measurement condition
PUHY-P300,350YRJC-A



Measurement condition
PUHY-P400,450YRJC-A



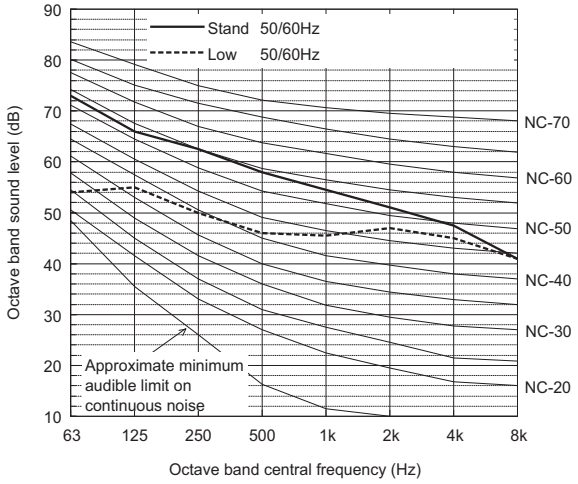
Sound level of PUHY-P300YRJC-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	62.0	64.0	63.0	56.0	51.5	47.0	44.0	37.0	59.0
Low noise mode	50/60Hz	64.5	59.5	50.5	45.5	43.0	39.0	37.0	27.5	50.0

When Low noise mode is set,the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

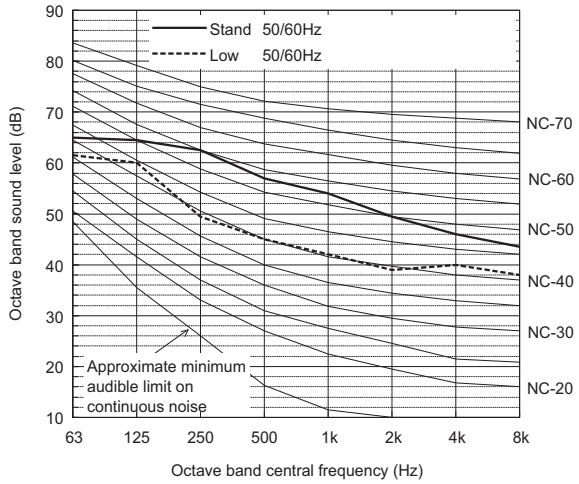
Sound level of PUHY-P400YRJC-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	73.0	66.0	62.5	58.0	54.5	51.0	47.5	41.0	61.0
Low noise mode	50/60Hz	54.0	55.0	50.0	46.0	45.5	47.0	45.0	41.0	53.0

When Low noise mode is set,the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

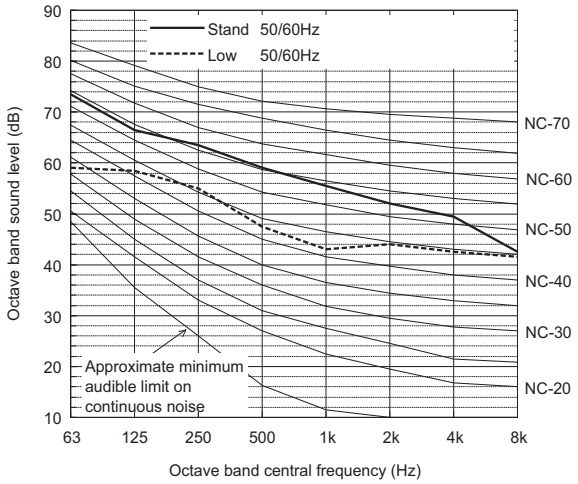
Sound level of PUHY-P350YRJC-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	65.0	64.5	62.5	57.0	54.0	49.5	46.0	43.5	60.0
Low noise mode	50/60Hz	61.5	60.0	49.5	45.0	42.0	39.0	40.0	38.0	50.0

When Low noise mode is set,the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

Sound level of PUHY-P450YRJC-A



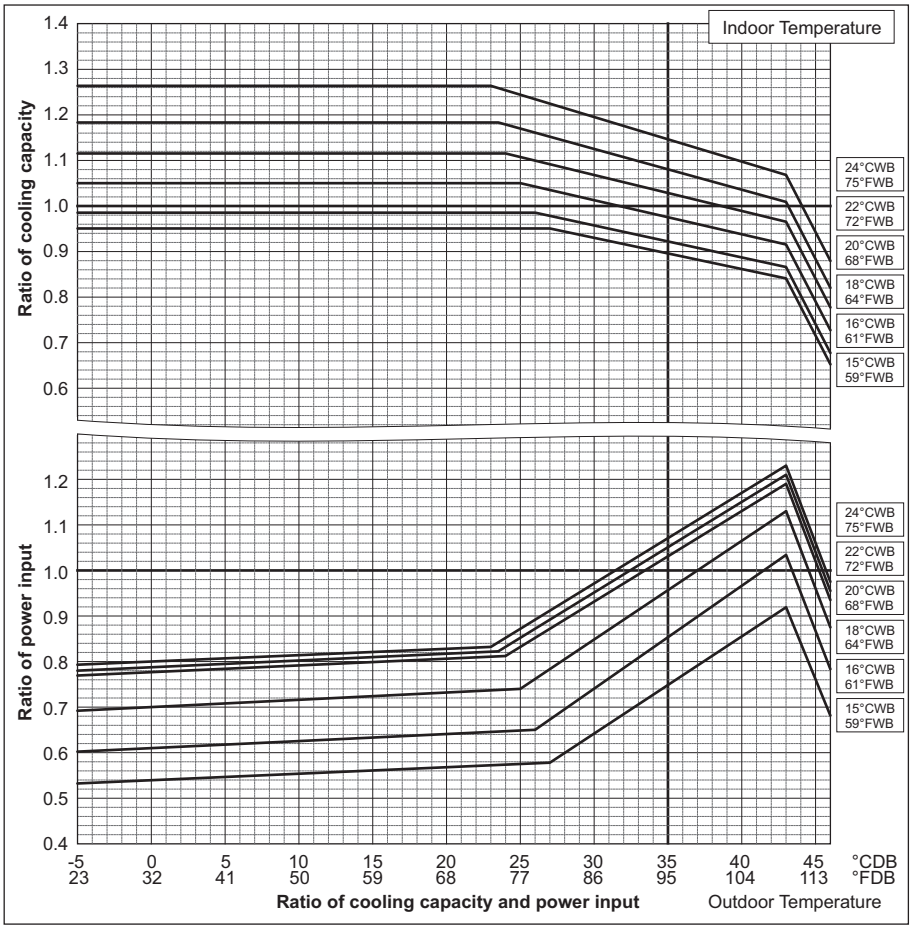
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	73.5	66.5	63.5	59.0	55.5	52.0	49.5	42.5	62.0
Low noise mode	50/60Hz	59.0	58.5	55.0	47.5	43.0	44.0	42.5	41.5	53.0

When Low noise mode is set,the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

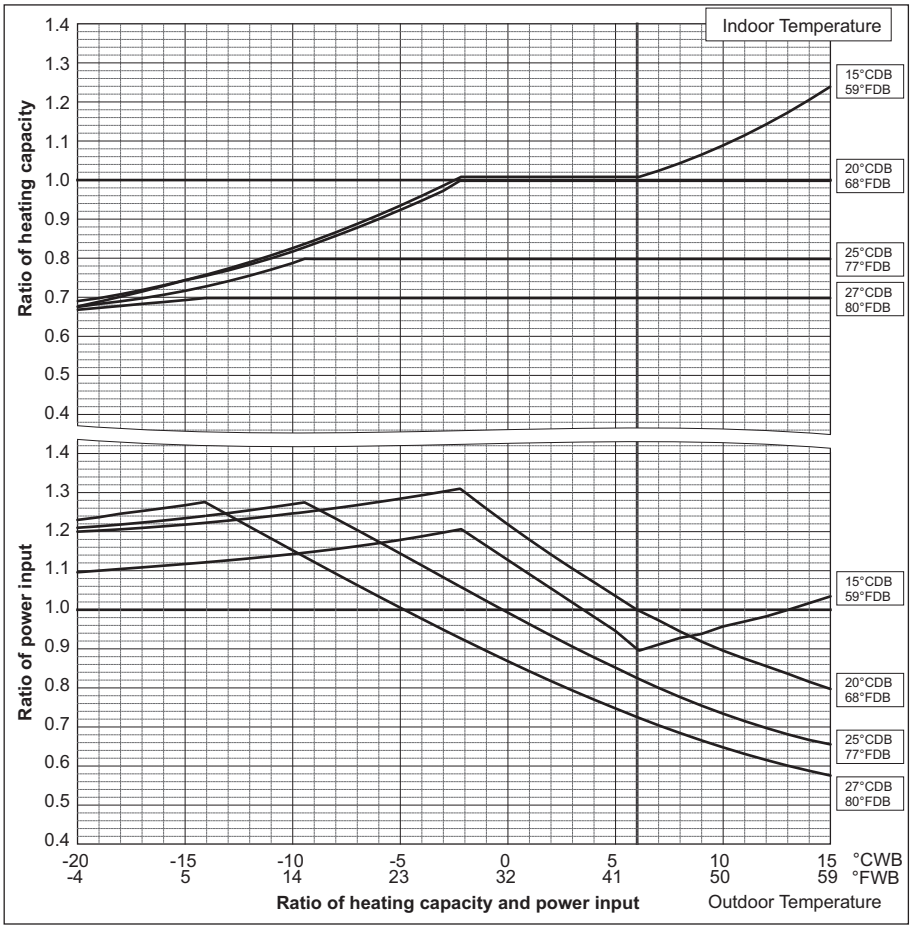
6-1. Correction by temperature

CITY MULTI could have various capacities at different designing temperatures. Using the nominal cooling/heating capacity values and the ratios below, the capacity can be found for various temperatures.

PUHY-		P300YRJC-A
Nominal Cooling Capacity	kW	30.0
	BTU/h	102,400
Input	kW	9.25

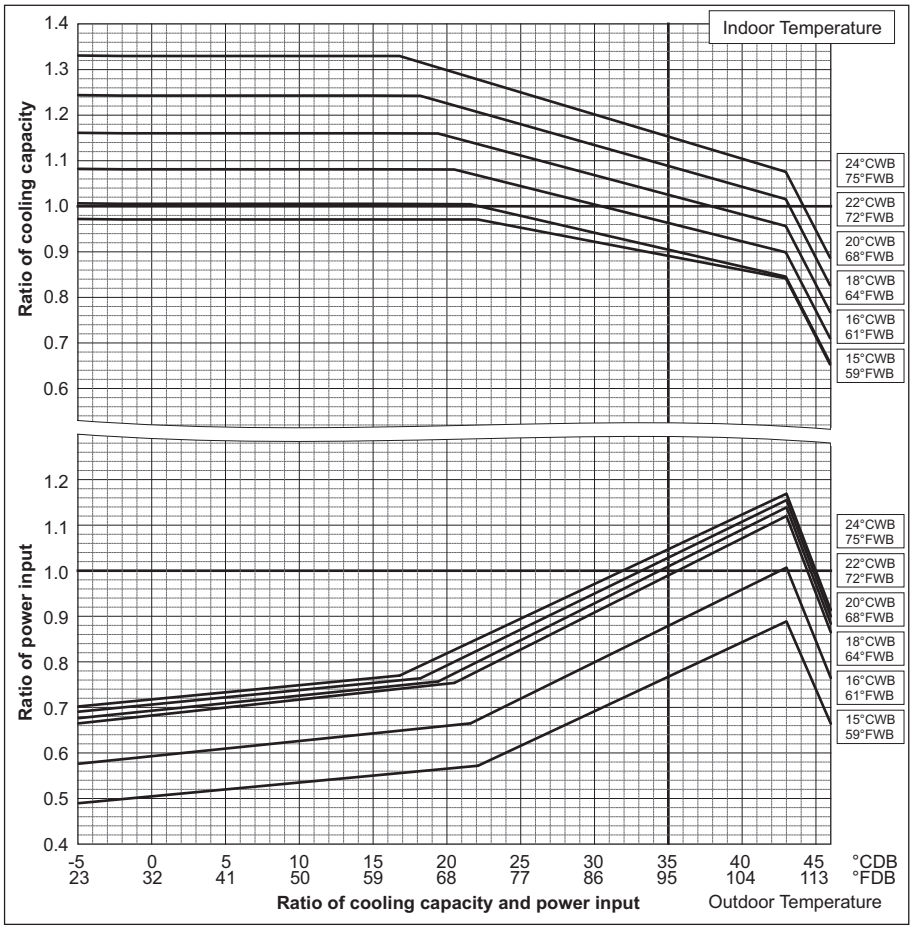


PUHY-		P300YRJC-A
Nominal Heating Capacity	kW	31.5
	BTU/h	107,500
Input	kW	7.83

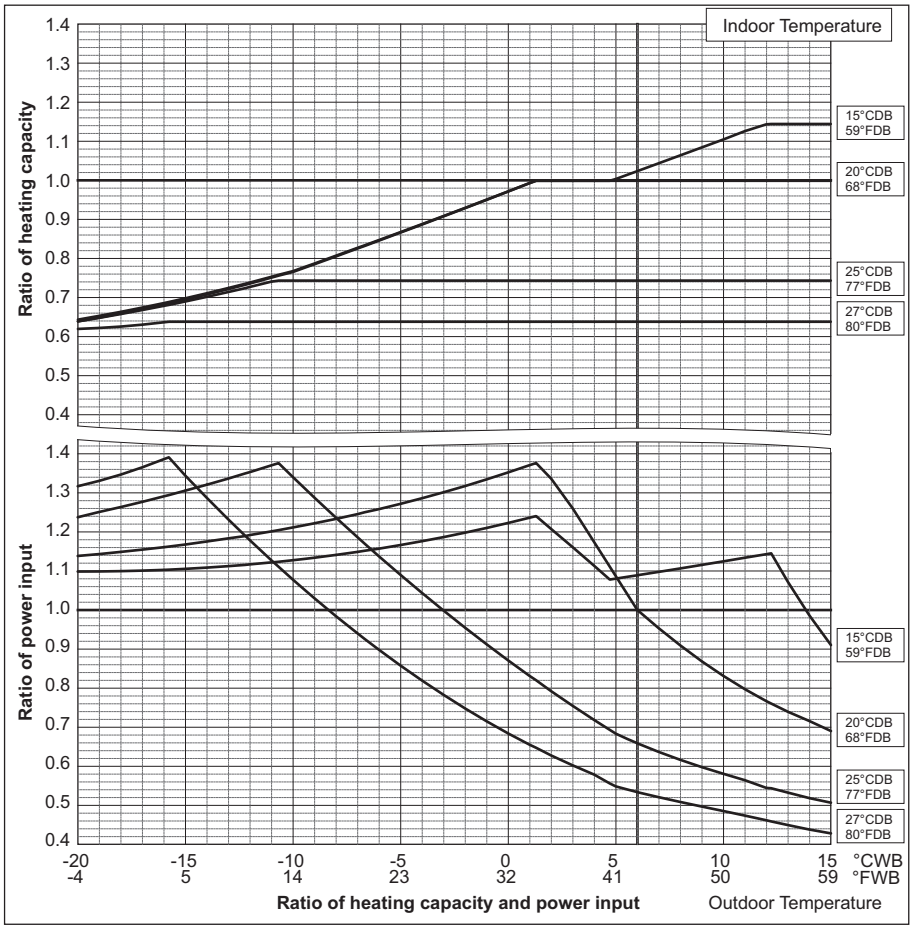


Y

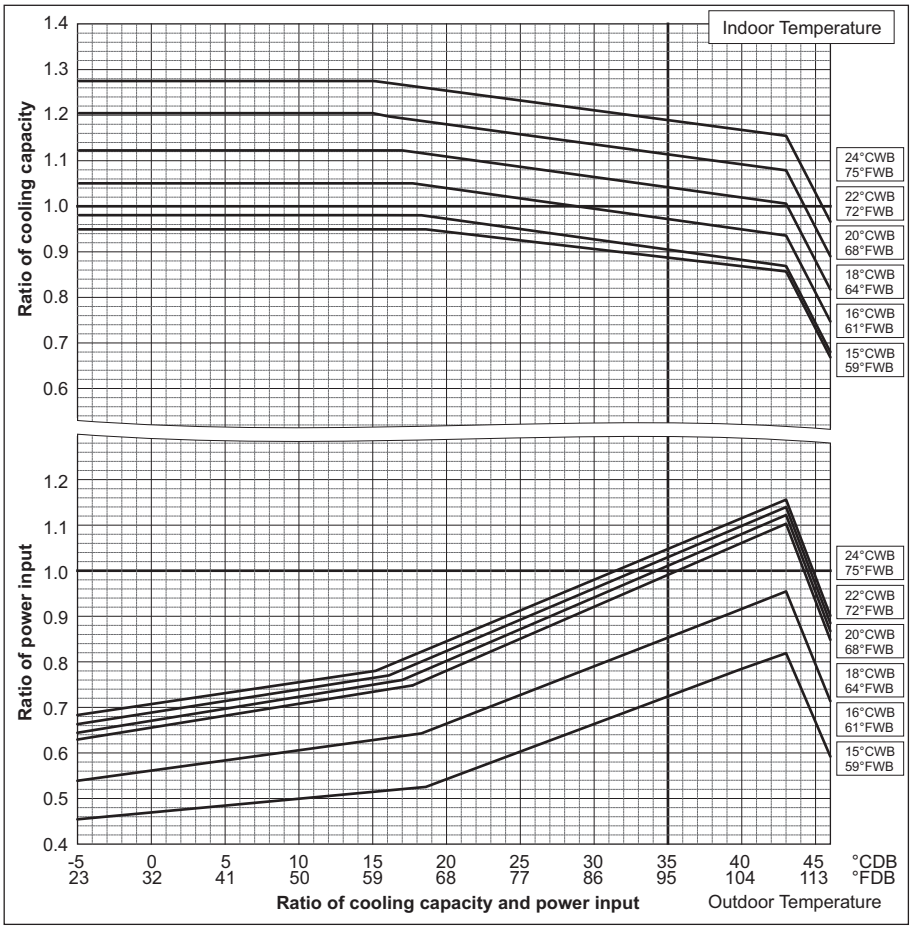
PUHY-		P350YRJC-A	P400YRJC-A
Nominal Cooling Capacity	kW	35.0	40.0
	BTU/h	119,400	136,500
Input	kW	10.29	11.86



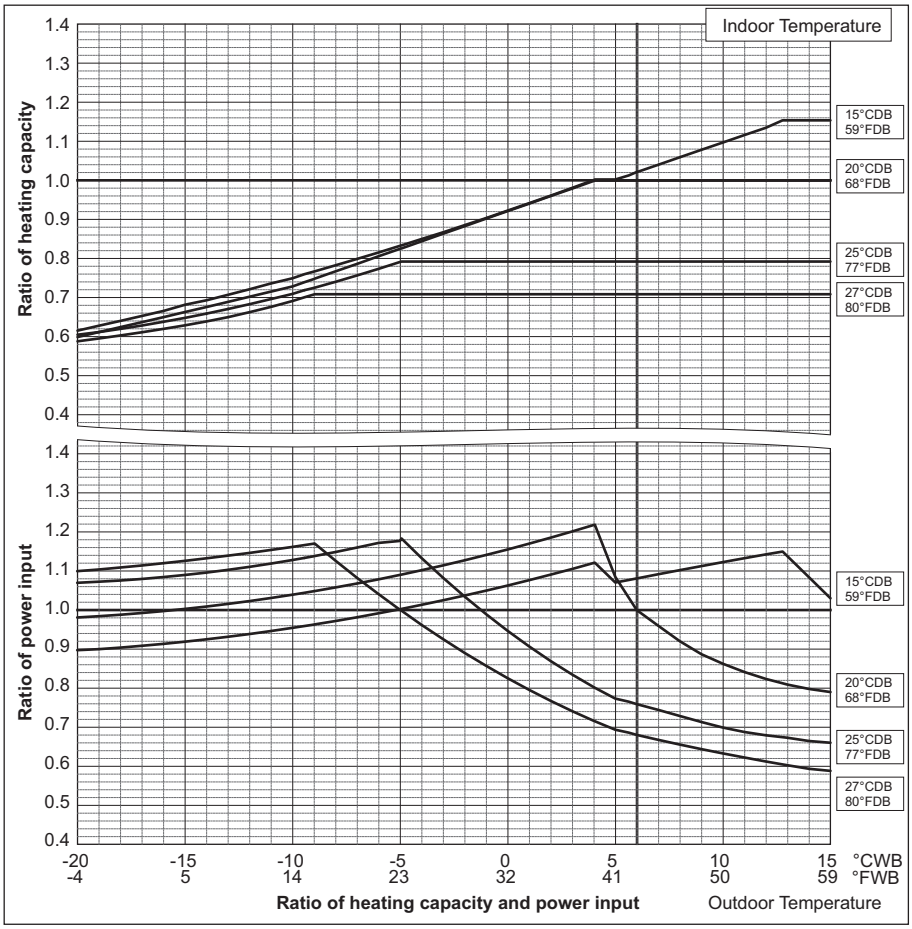
PUHY-		P350YRJC-A	P400YRJC-A
Nominal Heating Capacity	kW	37.5	50.0
	BTU/h	128,000	170,600
Input	kW	9.71	13.47



PUHY-		P450YRJC-A
Nominal Cooling Capacity	kW	45.0
	BTU/h	153,500
Input	kW	14.34



PUHY-		P450YRJC-A
Nominal Heating Capacity	kW	52.0
	BTU/h	177,400
Input	kW	15.85



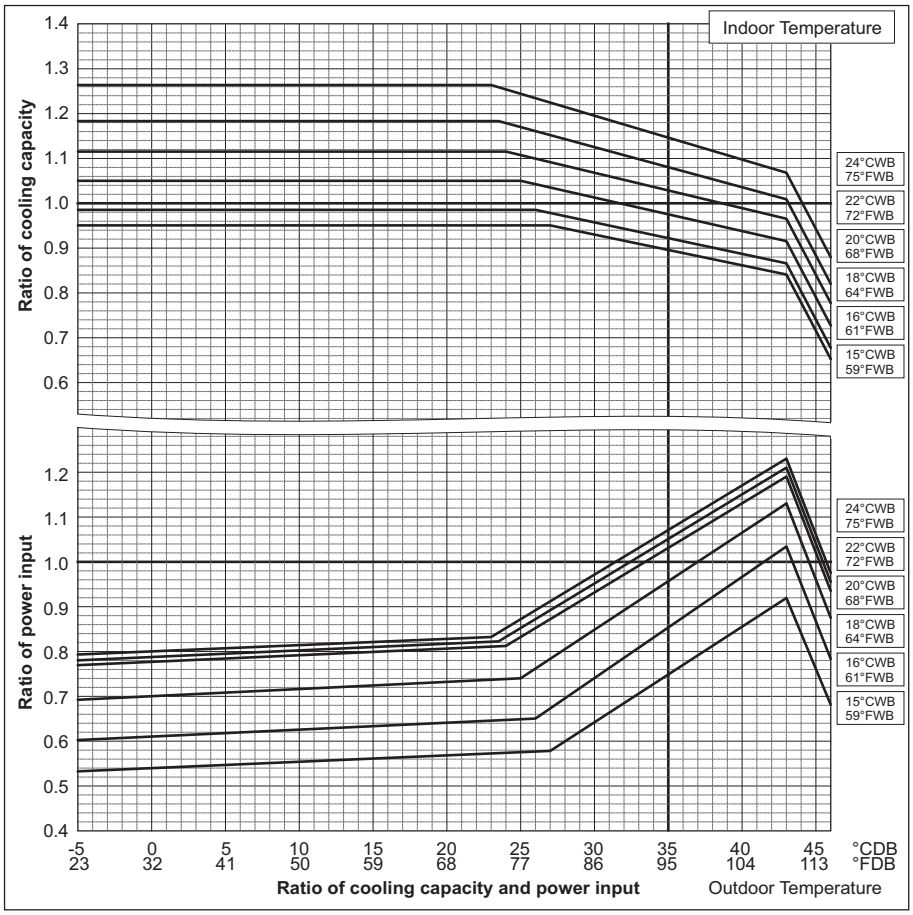
Correction by temperature (COP Priority Mode)

CITY MULTI could have various capacities at different designing temperatures. Using the nominal cooling/heating capacity values and the ratios below, the capacity can be found for various temperatures.

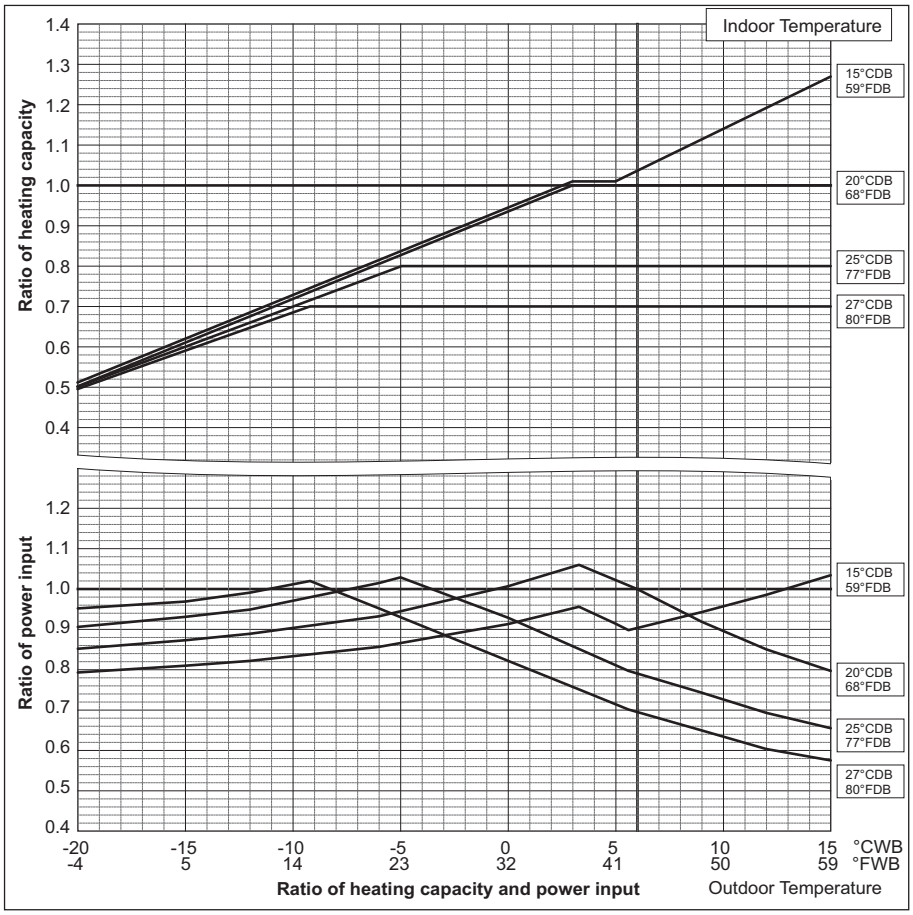
To select COP priority mode, DipSW 3-7 must be set to ON.

PUHY-		P300YRJC-A
Nominal Cooling Capacity	kW	30.0
	BTU/h	102,400
Input	kW	9.25

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)

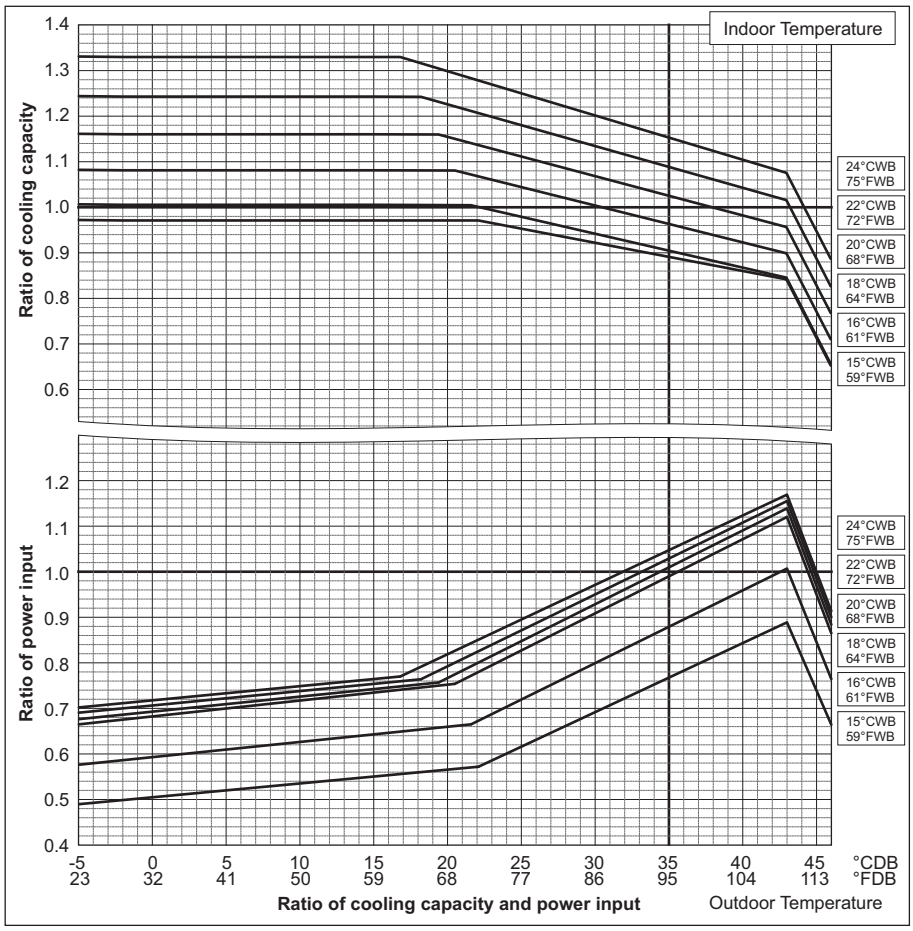


PUHY-		P300YRJC-A
Nominal Heating Capacity	kW	31.5
	BTU/h	107,500
Input	kW	7.83

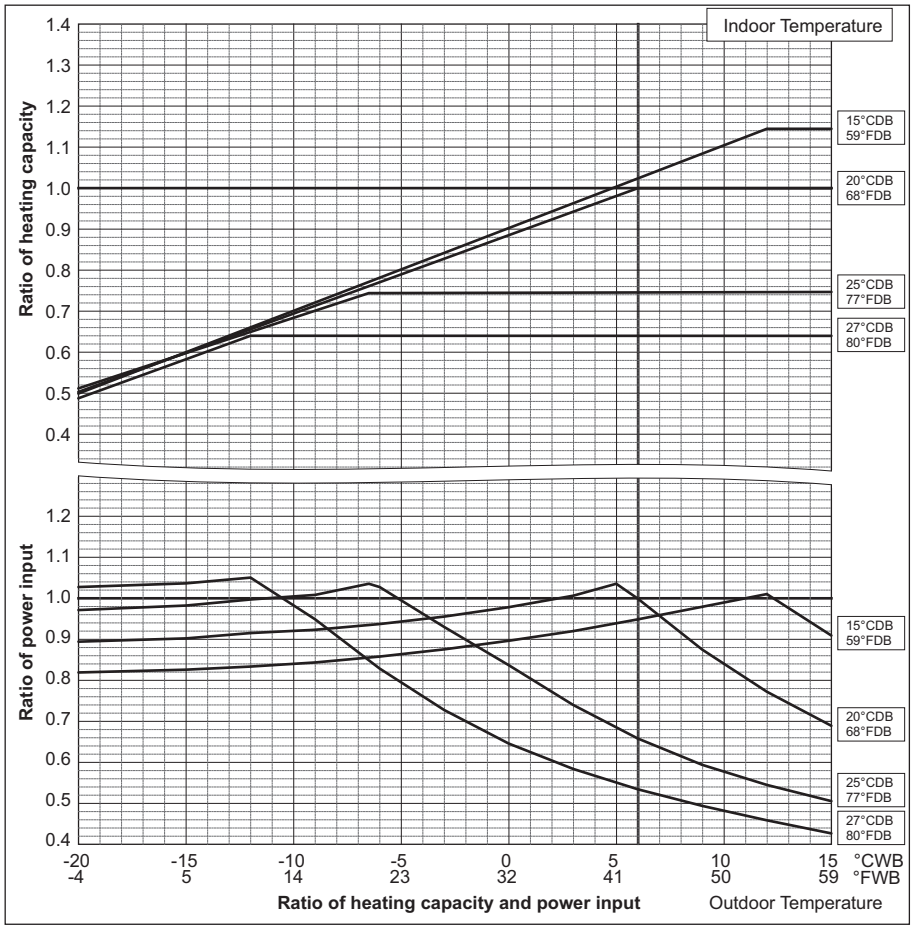


PUHY-		P350YRJC-A	P400YRJC-A
Nominal Cooling Capacity	kW	35.0	40.0
	BTU/h	119,400	136,500
Input	kW	10.29	11.86

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



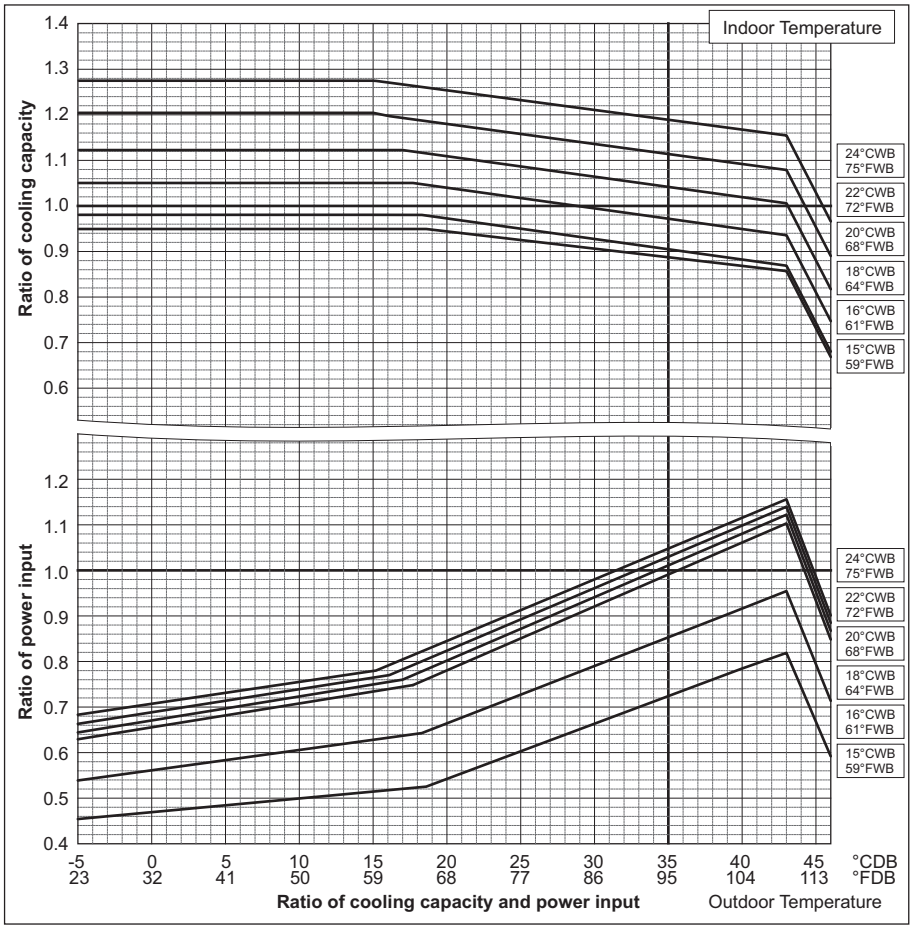
PUHY-		P350YRJC-A	P400YRJC-A
Nominal Heating Capacity	kW	37.5	50.0
	BTU/h	128,000	170,600
Input	kW	9.71	13.47



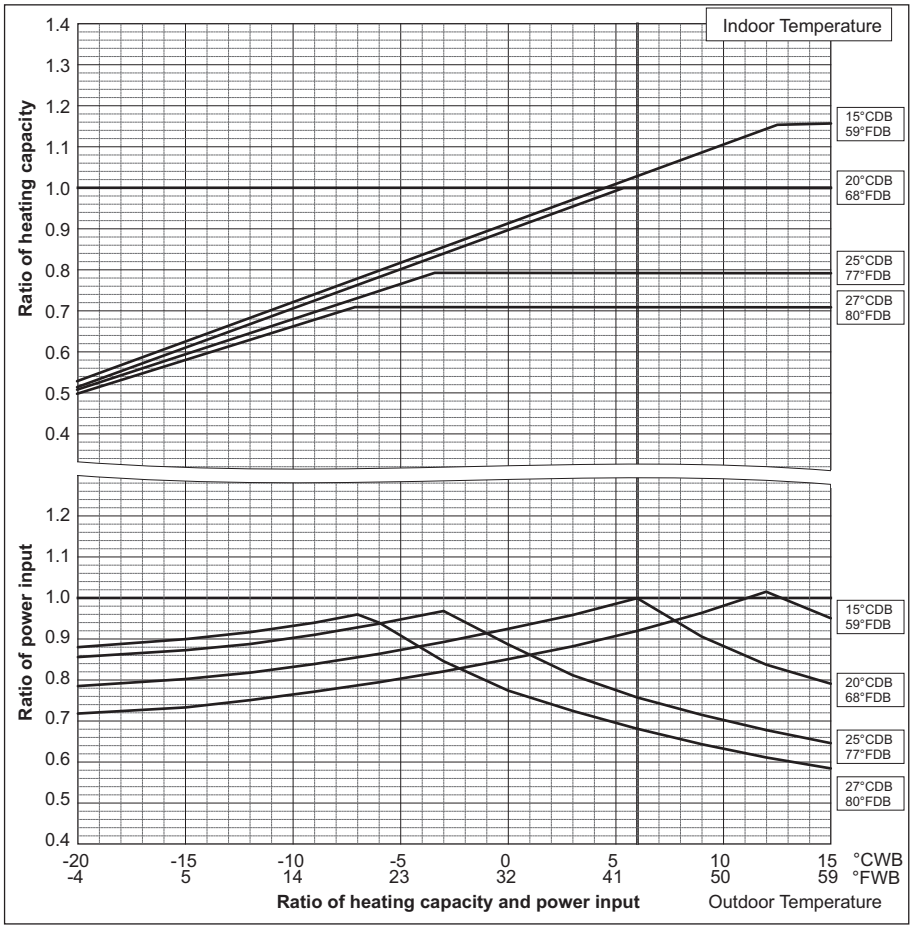
6. CAPACITY TABLES

PUHY-		P450YRJC-A
Nominal Cooling Capacity	kW	45.0
	BTU/h	153,500
Input	kW	14.34

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



PUHY-		P450YRJC-A
Nominal Heating Capacity	kW	52.0
	BTU/h	177,400
Input	kW	15.85



6-2. Correction by total indoor

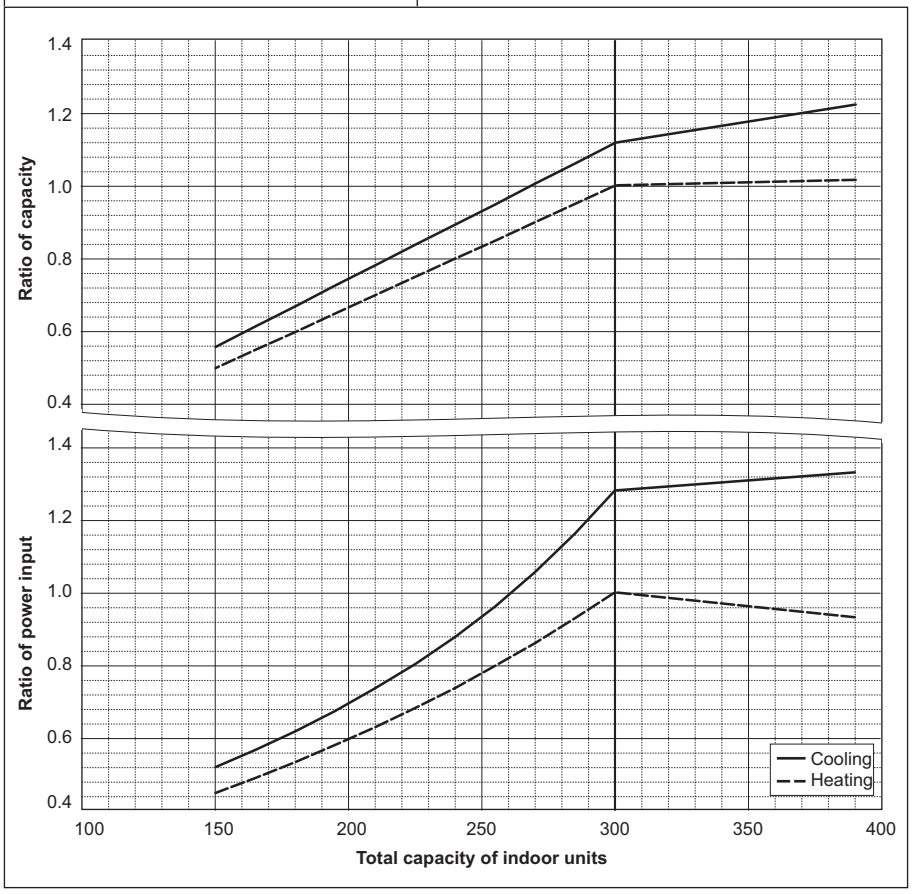
CITY MULTI system have different capacities and inputs when many combinations of indoor units with different total capacities are connected. Using following tables, the maximum capacity can be found to ensure the system is installed with enough capacity for a particular application.

PUHY-P300YRJC-A		
Nominal Cooling Capacity	kW	30.0
	BTU/h	102,400
Input	kW	9.25

PUHY-P300YRJC-A		
Nominal Heating Capacity	kW	31.5
	BTU/h	107,500
Input	kW	7.83

(The cooling capacity shows a comparison to the rated capacity based on the maximum capacity.)

PUHY-P300YRJC-A

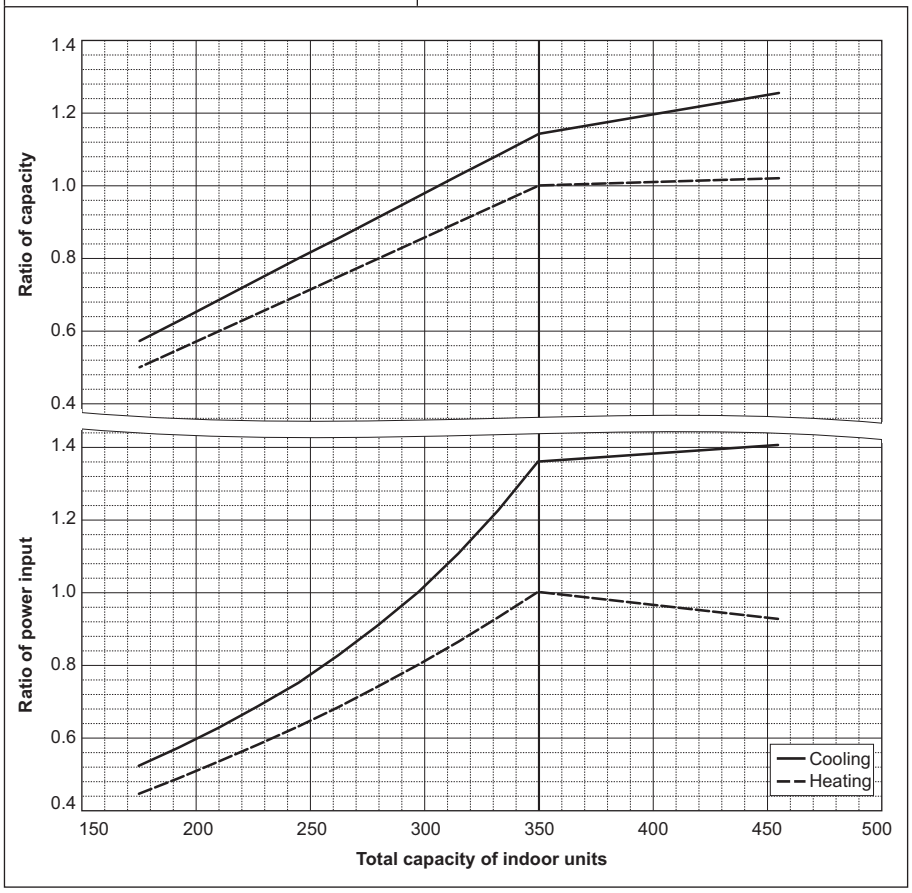


PUHY-P350YRJC-A		
Nominal Cooling Capacity	kW	35.0
	BTU/h	119,400
Input	kW	10.29

PUHY-P350YRJC-A		
Nominal Heating Capacity	kW	37.5
	BTU/h	128,000
Input	kW	9.71

(The cooling capacity shows a comparison to the rated capacity based on the maximum capacity.)

PUHY-P350YRJC-A



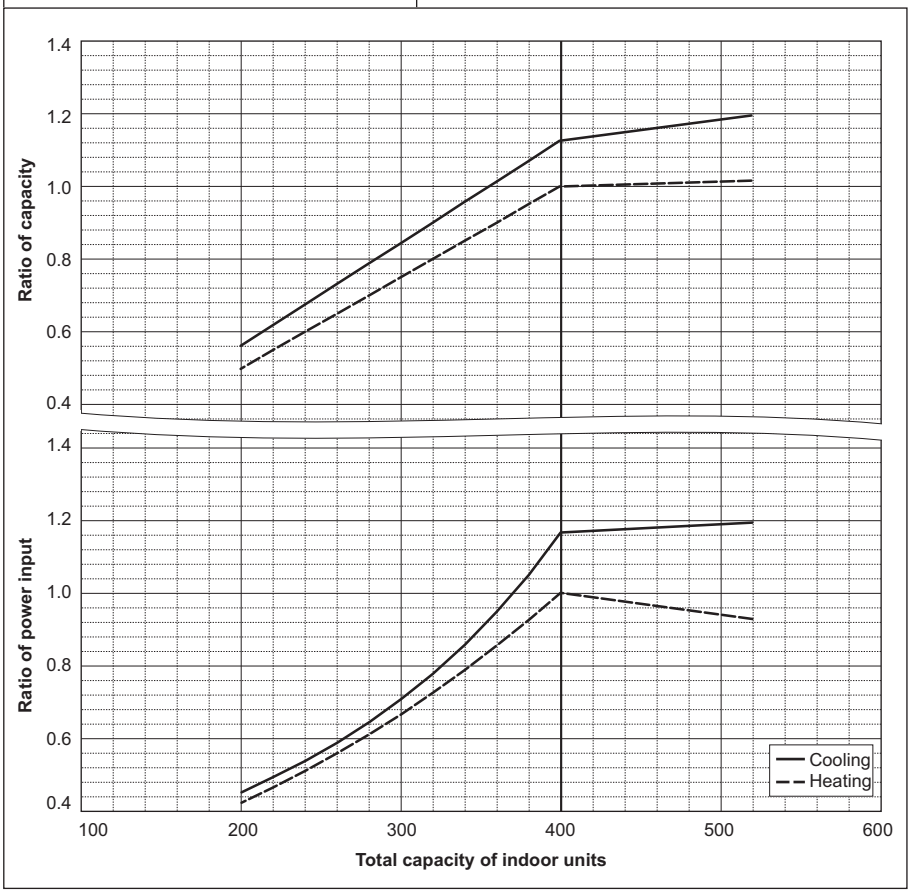
Y

PUHY-P400YRJC-A		
Nominal Cooling Capacity	kW	40.0
	BTU/h	136,500
Input	kW	11.86

PUHY-P400YRJC-A		
Nominal Heating Capacity	kW	50.0
	BTU/h	170,600
Input	kW	13.47

(The cooling capacity shows a comparison to the rated capacity based on the maximum capacity.)

PUHY-P400YRJC-A

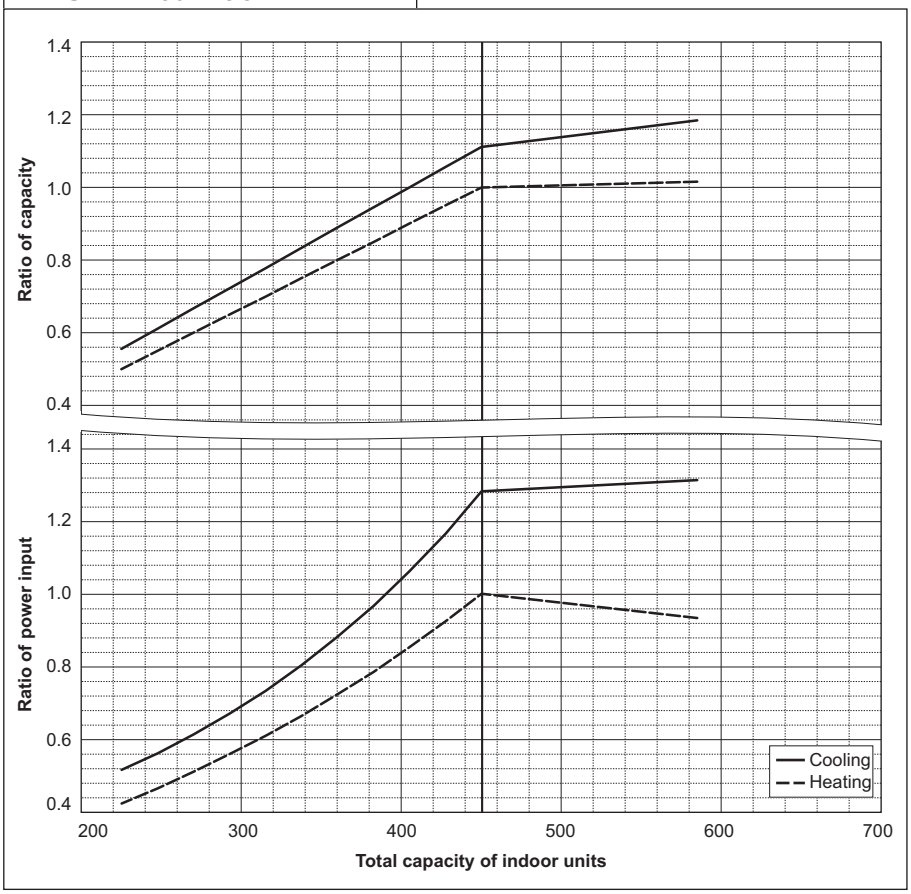


PUHY-P450YRJC-A		
Nominal Cooling Capacity	kW	45.0
	BTU/h	153,500
Input	kW	14.34

PUHY-P450YRJC-A		
Nominal Heating Capacity	kW	52.0
	BTU/h	177,400
Input	kW	15.85

(The cooling capacity shows a comparison to the rated capacity based on the maximum capacity.)

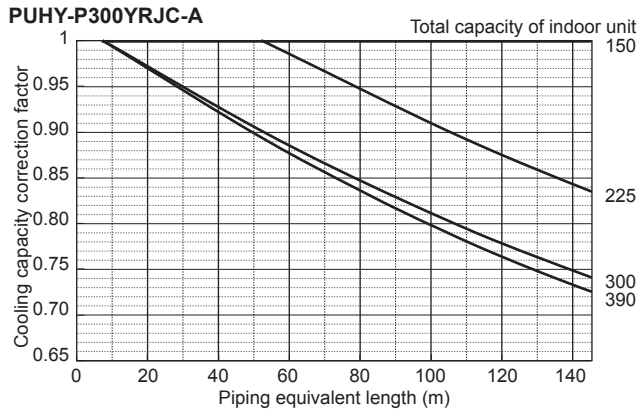
PUHY-P450YRJC-A

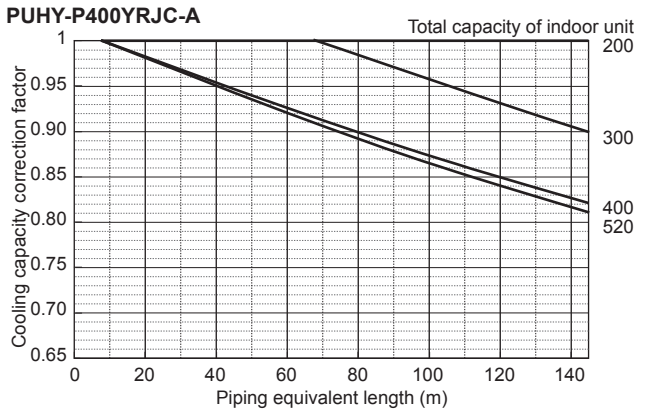


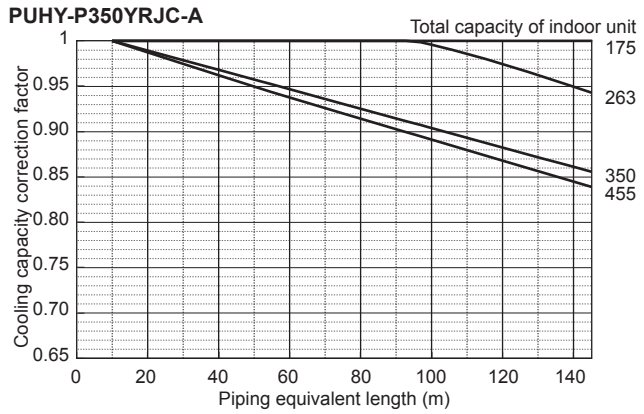
6-3. Correction by refrigerant piping length

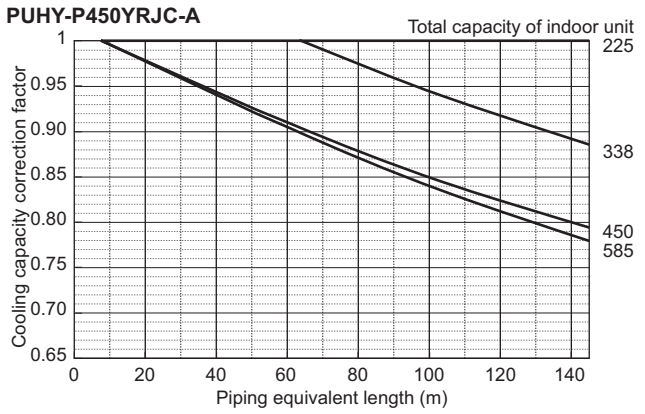
CITY MULTI system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 6-3-1 and 6-3-2, the capacity can be observed. 6-3-3 shows how to obtain the equivalent length of piping.

6-3-1. Cooling capacity correction

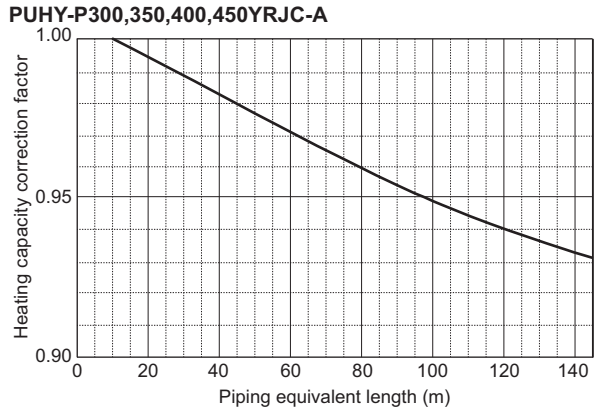








6-3-2. Heating capacity correction



6-3-3. How to obtain the equivalent piping length

1. PUHY-P300YRJC

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) [m]

2. PUHY-P350YRJC

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) [m]

3. PUHY-P400, 450YRJC

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) [m]

6-4. Correction at frost and defrost

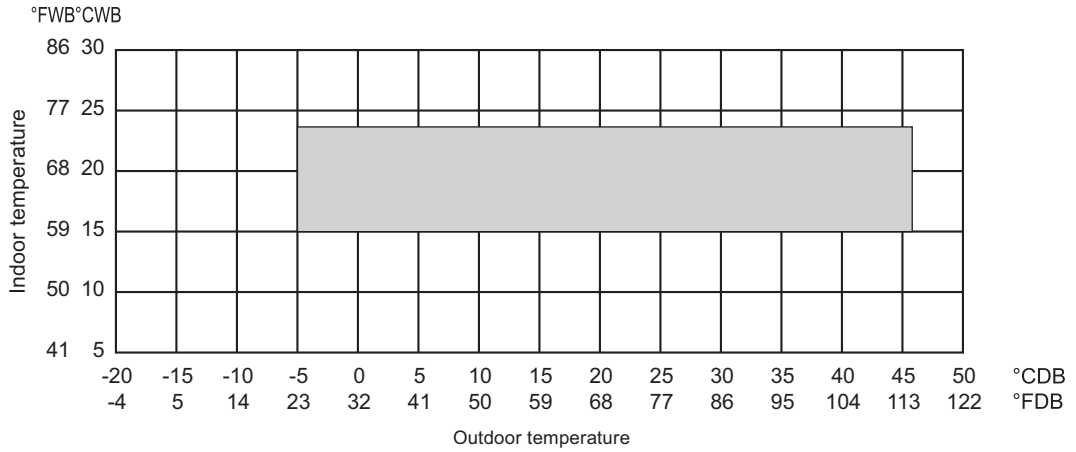
Due to frost at the outdoor heat exchanger and the automatic defrost operation, the heating capacity of the outdoor unit can be calculated by multiplying the correction factor shown in the table below.

Table of correction factor at frost and defrost

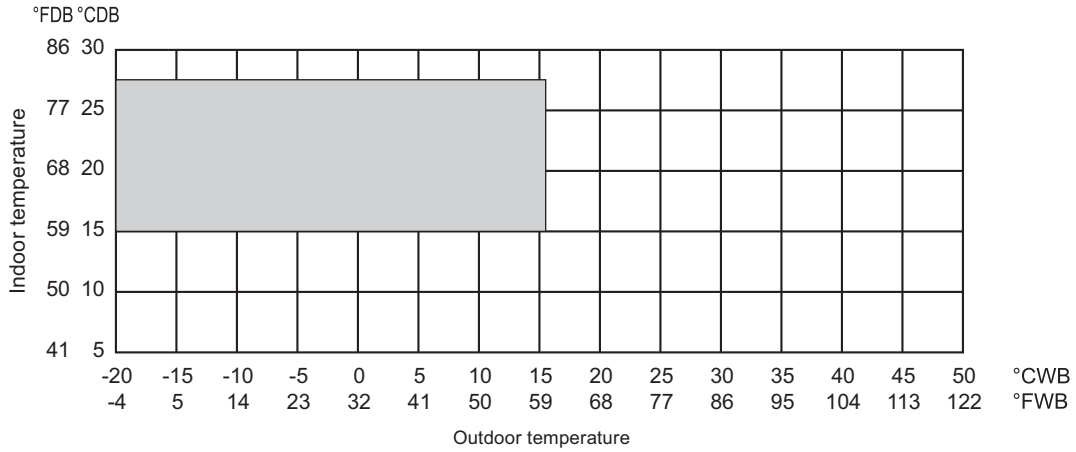
Outdoor inlet air temp. °C	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Outdoor inlet air temp. °F	43	39	36	34	32	28	25	21	18	14	-4
PUHY-P300YRJC-A	1.00	0.95	0.84	0.825	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-P350YRJC-A	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-P400YRJC-A	1.00	0.95	0.90	0.87	0.88	0.89	0.90	0.95	0.95	0.95	0.95
PUHY-P450YRJC-A	1.00	0.98	0.89	0.87	0.89	0.90	0.92	0.95	0.95	0.95	0.95

6-5. Operation temperature range

• Cooling



• Heating



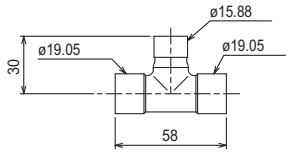
7-1. JOINT

CITY MULTI units can be easily connected by using Joint sets and Header sets provided by Mitsubishi Electric. Three kinds of Joint sets are available for use. Refer to section 3 in "System Design" or the Installation Manual that comes with the Joint set for how to install the Joint set.

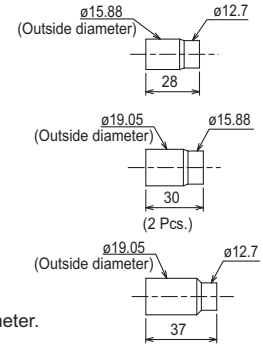
CMY-Y102SS-G2

mm

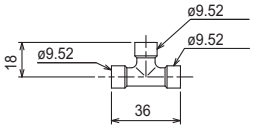
For Gas pipe:



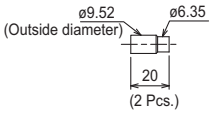
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For Liquid pipe:



<Deformed pipe(Accessory)>

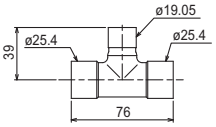


*Pipe diameter is indicated by inside diameter.

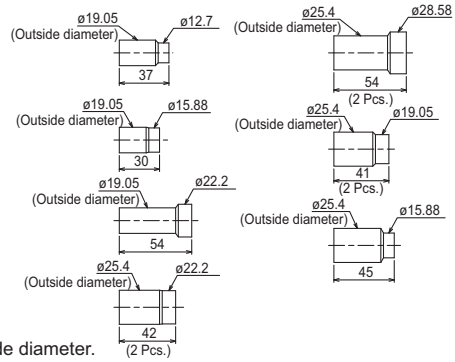
CMY-Y102LS-G2

mm

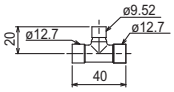
For Gas pipe:



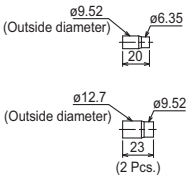
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For Liquid pipe:



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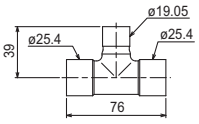


*Pipe diameter is indicated by inside diameter.

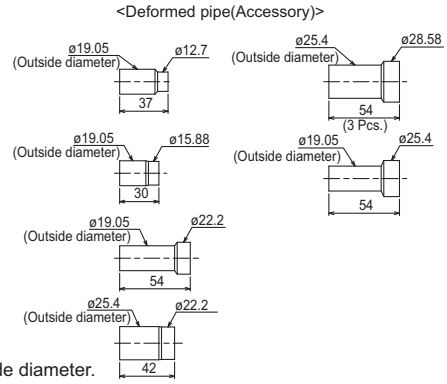
CMY-Y202S-G2

mm

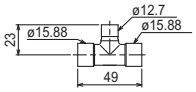
For Gas pipe:



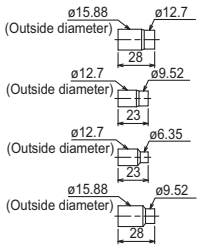
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For Liquid pipe:



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*Pipe diameter is indicated by inside diameter.

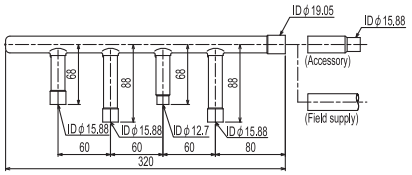
7-2. HEADER

CITY MULTI units can be easily connected by using Joint sets and Header sets provided by Mitsubishi Electric. Three kinds of Header sets are available for use. Refer to section 3 in "System Design" or the Installation Manual that comes with the Header set for how to install the Header set.

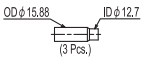
CMY-Y104-G

Ref.: CMY_Y104-G_EXD_EUDB_SI.
mm

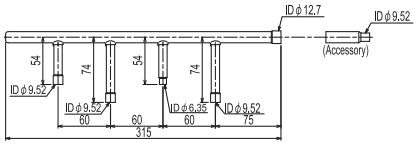
For Gas pipe:



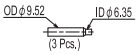
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For Liquid pipe:



<Deformed pipe(Accessory)>



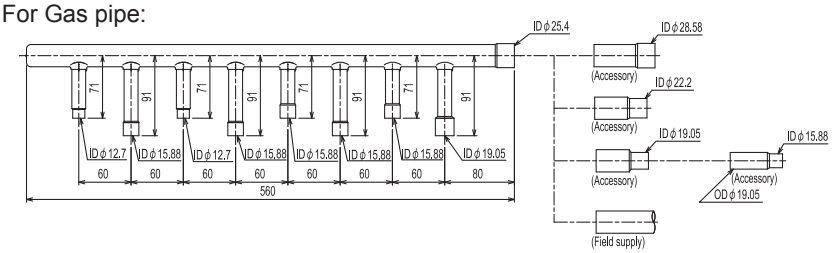
ID: Inner Diameter OD: Outer Diameter

NOTE: Besides above mentioned accessories, caps for pipe of ϕ6.35, ϕ9.52, ϕ12.7, ϕ15.88 (each diameter 1 piece) are included in the Header set.

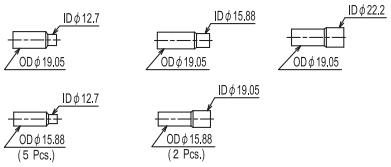
CMY-Y108-G

Ref.: CMY_Y108-G_EXD_EUDB_SI
mm

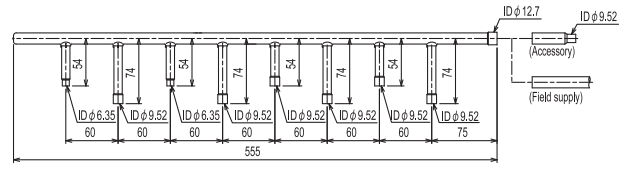
For Gas pipe:



<Deformed pipe(Accessory)>



For Liquid pipe:



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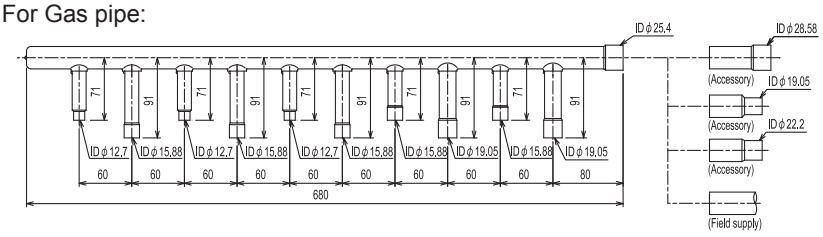
ID: Inner Diameter OD: Outer Diameter

NOTE: Besides above mentioned accessories, caps for pipe of ϕ6.35, ϕ9.52, ϕ12.7, ϕ15.88 (each diameter 2 pieces) and 1 cap for pipe of ϕ19.05 are included in the Header set.

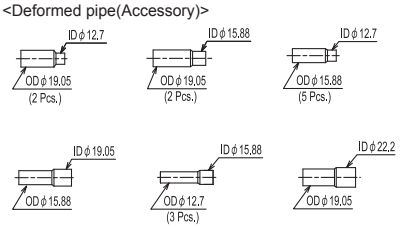
CMY-Y1010-G

Ref.: CMY_Y1010-G_EXD_EUDB_SI
mm

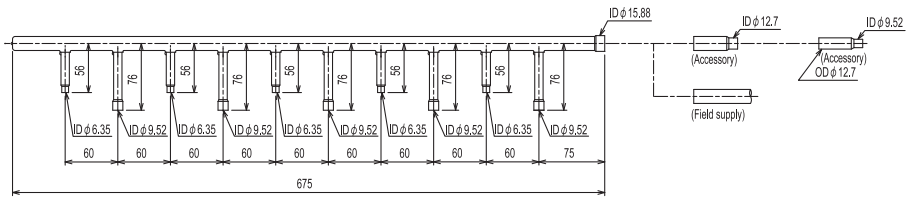
For Gas pipe:



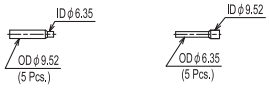
<Deformed pipe(Accessory)>



For Liquid pipe:



<Deformed pipe(Accessory)>



ID: Inner Diameter OD: Outer Diameter

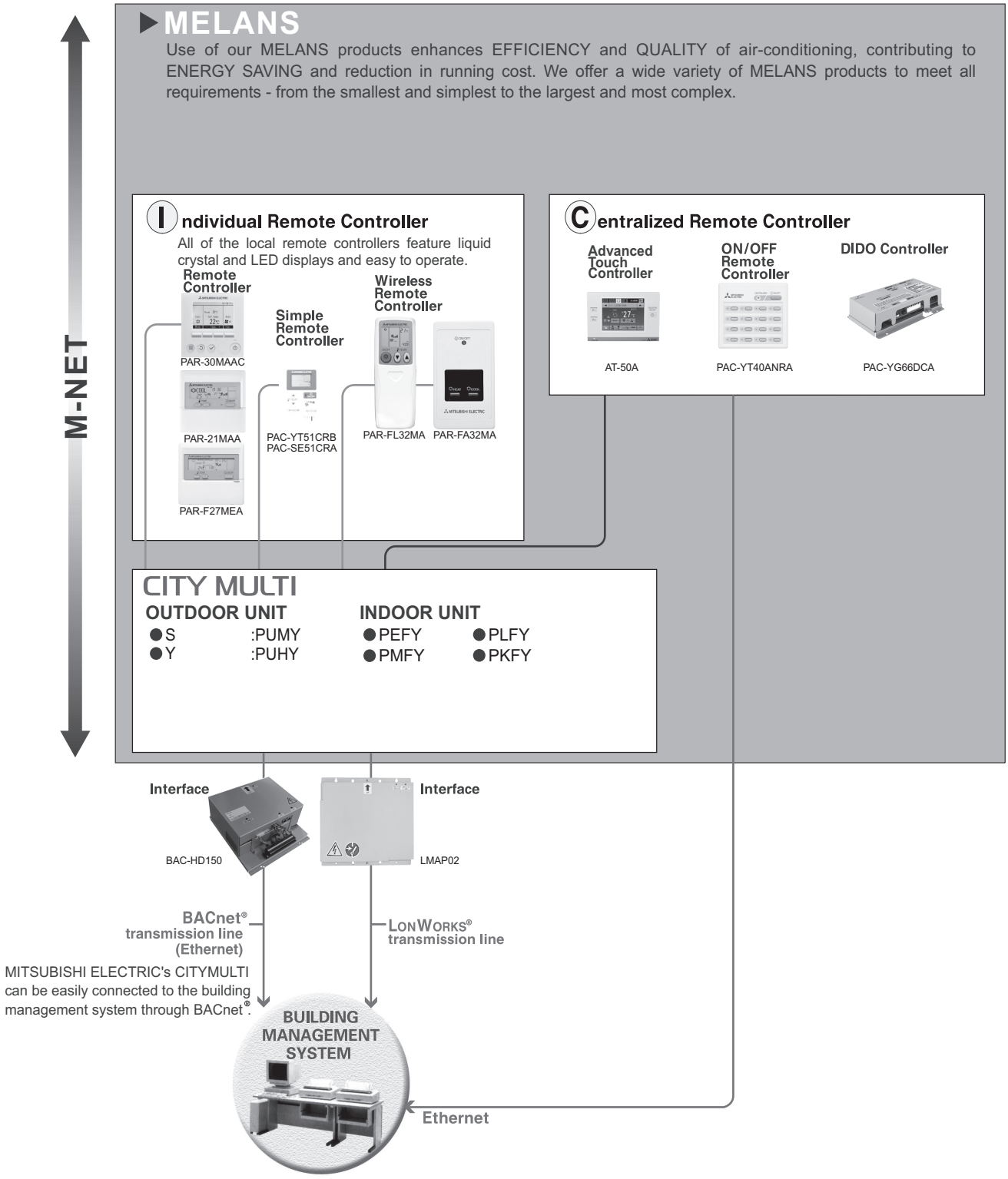
NOTE: Besides above mentioned accessories, caps for pipe of ϕ6.35, ϕ9.52, ϕ12.7, ϕ15.88 (each diameter 2 pieces) and 1 cap for pipe of ϕ19.05 are included in the Header set.

CITY MULTI
3. CONTROLLER

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System Controller

MITSUBISHI ELECTRIC's Air-conditioner Network System (MELANS) leads air conditioner management a PC browser and Network era.



*Some controllers cannot be used in combination with certain models of devices.

1-1. Function table of controllers

Model	Local remote controller *7						System controller *7	
	PAR-30MAAC	PAR-21MAA	PAR-F27MEA	PAC-YT51CRB	PAC-SE51CRA	PAR-FL32MA	PAC-YT40ANRA	AT-50A
Controllable Groups / Indoors (Group / Indoor) *6	1 / 16	1 / 16	1 / 16	1 / 16	1 / 16	1 / 16	16 / 50	50 / 50
■Operating								
ON / OFF	○	○	○	○	○	○	◎	◎
Mode (cool / heat / dry / fan)	○	○	○	○	N	○	N	◎
Temperature-set	○	○	○	○	○	○	N	◎
Local Permit / Prohibit	N	N	N	N	N	N	N	◎
Fan speed	○	○	○	○	○	○	N	◎
Air-flow direction	○	○	○	N	N	○	N	◎
■Status monitoring								
ON / OFF	○	○	○	○	○	○	◎	◎
Mode (cool / heat / dry / fan)	○	○	○	○	○	○	N	○
Temperature-set	○	○	○	○	○	○	N	○
Local Permit / Prohibit	○	○	○	○	○	○	○	○
Fan speed	○	○	○	○	○	○	N	○
Air-flow direction	○	○	○	N	N	○	N	○
Indoor temperature	○	○	○	N	N	N	N	○
Filter sign	○	○	○	N	N	N	N	◎
Error flashing	○	○	○	○	○	○	○	◎
Error code	○	○	○	○	○	N	○	○
Operation hour	N	N	N	N	N	N	N	N
■Scheduling								
One-day	○	○	○	N	N	N	N	○
Times of ON / OFF per day	1	8	1 / 1	N	N	1 / 1	N	16
Weekly	○	○	N	N	N	N	N	○
Times of ON / OFF per week	8 x 7	8 x 7	N	N	N	N	N	16 x 7
Annual	N	N	N	N	N	N	N	N
Optimized start-up	N	N	N	N	N	N	N	N
Auto-off timer	○	○	○	N	N	N	N	N
Min. timer setting unit (minute)	5	1	10	N	N	10	N	5
■Recording								
Error record	○	N	N	N	N	N	N	○
Daily / monthly report	N	N	N	N	N	N	N	N
Electricity charge	N	N	N	N	N	N	N	N
■Other								
Temp-set limitation by Local R / C	○	○	○	○	N	N	N	N
Temp-set limitation by System controller	○ *4	○ *4	○	○ *4	○	N	N	○ *4
Operation-lock	○	○	○	N	N	N	N	◎
Night setback	○	N	N	N	N	N	N	◎
Sliding temperature control	N	N	N	N	N	N	N	N
■Management (Group / Interlocked)								
Ventilation interlock	N /○	N /○	N /○	N /○	N /○	N	○	○
Group setting	○ *1	○ *1	○	○ *1	○	N	○	○
Block setting	N	N	N	N	N	N	N	N
Revision of electricity charge	N	N	N	N	N	N	N	N
■Operating on LOSSNAY interlocked (Group / Interlocked)								
ON / OFF	N /○	N /○	N /○	N /○	N /○ *5	N /○	◎/◎ *3	◎/◎
Fan speed	N /○	N /○	N	N	N	N	N	◎/◎
Ventilation mode	N / N	N / N	N	N	N	N	N	◎/ N
■Status monitoring on LOSSNAY interlocked (Group / Interlocked)								
ON / OFF	N /○	N /○	N	N	N	N	N	○/○
Fan speed	N /○	N /○	N	N	N	N	N	○/○
Ventilation mode	N	N	N	N	N	N	N	○/ N

◎: Each group / Batched ; ○: Each group ; □: Block (for CITY MULTI Indoor unit, not for all Mr.SLIM) ; N : Not Available (Not Used.) ; △: Batched only

*1. Group setting via wiring between Indoor units with cross-over cable;
*2. Installation possible at Initial setting web browser;
*3. Inter-lock is set at Local remote controller.
*4. This function can be set only on the ME/Simple ME remote controller. This function cannot be used with the MA/Simple MA remote controller.
(But, the validity of this function with the MA/Simple MA remote controller depends on the indoor unit model, and there are possibilities that this function can be used with them.)
*5. Inter-lock is set from system controller. (Except PAC-YT40ANRA)
*6. The maximum number of controllable units decreases depending on the indoor unit model.
*7. For indoor use only.

LOSSNAY remote controller PZ-52SF	
■Controllable LOSSNAY Groups	1
■Controllable LOSSNAY unit	16
■Operating	
ON/OFF	○
Mode (automatic ventilation/vent-heat interchange/normal ventilation)	○
Local Permit-Prohibit	N
Fan speed	○
Air flow direction	N
■Scheduling	N
■Recording	N

■Management Group setting	○
Block setting	N
■Status monitoring	
ON/OFF	○
Mode (automatic ventilation/vent-heat interchange/normal ventilation)	○
Local Permit-Prohibit	○
Fan speed	○
Air flow direction	N
Filter sign	○
Error flashing	○
Error code	○

Air conditioner control system interface

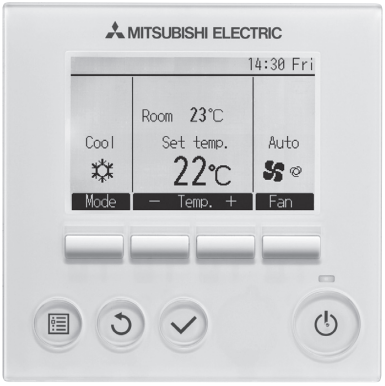
LMAP02-E : LONWORKS® Interface
Controls up to 50 Groups/ 50 units, for details, refer to its description.

BAC-HD150: BACnet® Interface
Controls up to 50 Groups/ 50 units, up to 150 Groups/ 150 units with three expansion controllers for details, refer to its description.

○ : Each group, N: Not Available

2. Local remote controller

2-1. MA remote controller [PAR-30MAAC]



■ Functions

1. Operation/Display

○:Each group ×:Not available

Item	Description	Setting	Display
ON/OFF	Switches between ON and OFF.	○	○
Operation mode switching	Switches among Cool/Dry/Fan/Auto/Heat.	○	○
Room temp. setting	The temperature can be set within the following range. Cool/Dry : 19°C - 30°C / 67°F - 87°F Heat : 17°C - 28°C / 63°F - 83°F Auto : 19°C - 28°C / 67°F - 83°F * Set temperature range varies depending on the model.	○	○
Fan speed setting	Changes fan speed. * Available fan speeds vary depending on the model.	○	○
Vane setting	Changes airflow direction. * Available airflow directions vary depending on the model.	○	○
Louver setting	Switches between louver ON/OFF.	○	○
Ventilation equipment control	Interlocked setting and interlocked operation setting with the City Multi LOSSNAY units can be made. The Stop/Low/High settings of the ventilation equipment can be controlled.	○	○
Auto descending panel *1	Raises and lowers the automatic elevating panel.	○	○
backlight	Pressing any button turns the backlight on and it will stay lit for a certain period of time depending on the screen.	×	○
Main display mode setting	The Main display can be displayed in two different modes: "Full" and "Basic."	○	○
Clock *2	Date (year/month/day) and time (hour/minute) can be set. The set time as well as the day of the week will be displayed on the Main display. It is also possible to set not to display the time on the Main display.	○	○
Clock display	The clock can be displayed in 12-hour format (AM/PM before or after the time) and 24-hour format.	○	○
Room temp. display	Displays the room temperature on the Main display in the "Full" mode during operation.	—	○
Error information	When an error occurs, an error code and the unit address appear. Air conditioning unit model, serial number, and contact number can be set to appear when an error occurs. (The information above needs to be entered in advance.) * An error code may not appear depending on the error.	—	○
Filter information	A filter sign will appear when it is time to clean the filter.	—	○

2. Schedule and timer setting

○:Each group ×:Not available

Item	Description	Setting	Display
Timer	ON/OFF timer Turns ON and OFF daily at a set time. • Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer Turns off the unit after a certain period of operation. • Operation time can be set to a value from 30 to 240 in 10-minute increments.	○	○
Weekly timer	Weekly ON/OFF times and set temperatures can be set. • Time can be set in 5-minute increments. Up to 8 schedule patterns can be set per day of the week. * Not valid when the ON/OFF timer is set.	○	○
Night setback	The temperature range and the start/stop times can be set.	○	○

3. Restriction settings

○:Each group ×:Not available

Item	Description	Setting	Display
Allows/disallows local operation	The following operation can be prohibited by making certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, and filter sign reset. * While an operation is prohibited, the operation icon lights up (only on the Main display in the "Full" mode).	×	○
Operation lock	The following operation can be prohibited respectively: ON/OFF, operation mode setting, temperature setting, and airflow direction setting.	○	○
Temperature range restriction	The room temperature range for each operation mode can be restricted.	○	○
Auto return	The units operate at the preset temperature after a designated period. (Time can be set to a value from 30 to 120 in 10-minute increments.) * Not valid when the temperature setting range is restricted.	○	×
password	Administrator password (required for schedule setting etc.) and Maintenance password (required for test run and function setting etc.) can be set.	○	×

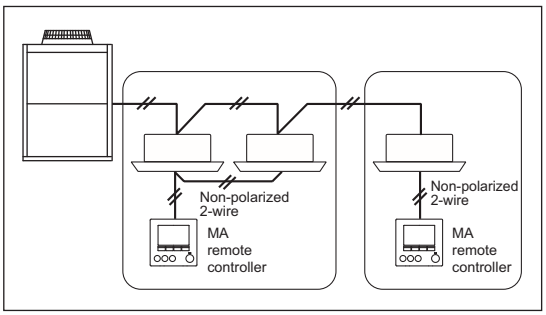
4. Miscellaneous items

○:Each group ×:Not available

Item	Description	Setting	Display
Language Selection	Select the display language from the following 3 languages. Simplified Chinese, Traditional Chinese, and English	○	○
Contrast	Adjusts LCD contrast.	○	○
Manual vane Angle *1	Fixes the vane position for each air outlet.	○	×
Service *1	Contains Test run, Function setting, and Error history.	○	○

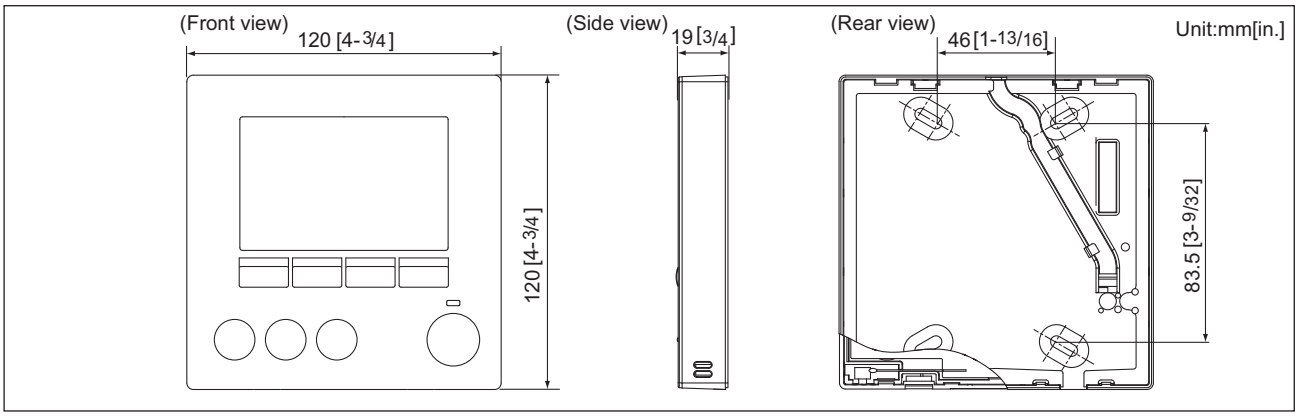
*1 This function is active only for the units that support the function.
*2 The clock is accurate within 50 seconds per month (at the temperature of 25ºC [77°F]). The clock is backed up for 7 days.

■ System example

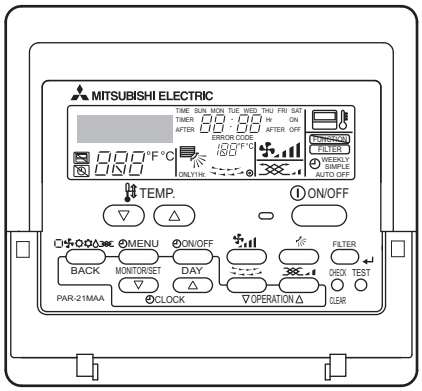


*When a PAR-30MAAC is connected to a group, no other MA remote controllers can be connected to the same group.

■ External dimension



2-2. MA remote controller [PAR-21MAA]



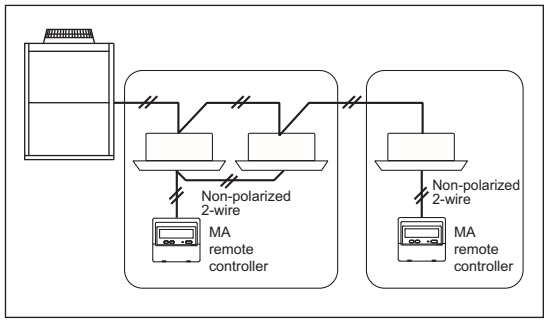
- High-quality white color body and light-green display.
- Dot LCD is applied.
  Choose from Japanese, Chinese, English, German, Spanish, Russian, Italian, French displays.
- Connectable to all CITY MULTI indoor units, and automatically adjust its function with the connected indoor unit.
- Limiting the temperature setting range is possible.
  Helps to avoid over-cooling or over-heating. Saves energy.
- Auto-stop timer is available.
  Helps to avoid forgetting to turn off the air conditioner.
- Weekly scheduler is available.
  ON/OFF/Temperature setting 8 times per day, 1 week scheduling.
- Grouping via cross-over wire directly.
- Usable as the local remote controller for system controller (MELANS)
  * Combining ME remote controller and/or LOSSNAY remote controller in a group is not possible.

■ Functions

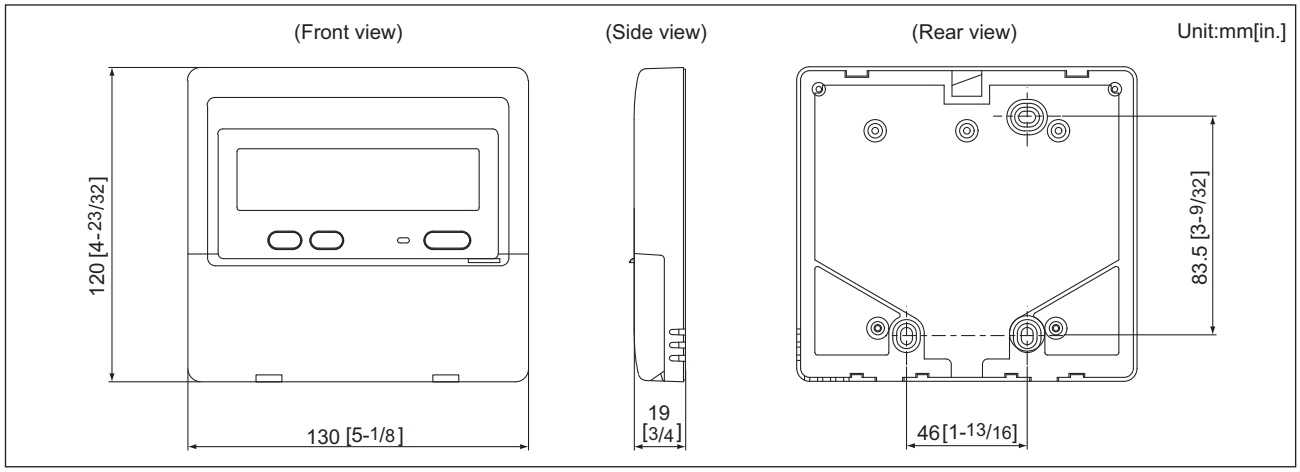
□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a single group	○	○
Operation mode switching	Switches between Cool / Dry / Auto* / Fan / Heat. Operation modes vary depending on the air conditioner unit. *Auto only supported for the City Multi R2 and WR2 series.	○	○
Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19°C - 30°C (14°C - 30°C) / 67°F - 87°F (57°F - 87°F) Heat : 17°C - 28°C (17°C - 28°C) / 63°F - 83°F (63°F - 83°F) Auto : 19°C - 28°C (17°C - 28°C) / 67°F - 83°F (63°F - 83°F) ( ) For PEFY/PFFY by setting DipSW 7-1 to ON and limits to NI6H fan speed only.	○	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-1/Mid-2/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Fan speed setting (including Auto) varies depending on the model.	○	○
Air flow direction setting	Air flow direction angles (4-angle, or 5-angle Swing) Auto Louver ON/OFF Air flow direction settings vary depending on the model.	○	○
Weekly scheduler	ON/OFF/Temperature setting can be done up to 8 times one day in the week. The time can be set by the minute.	○	○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (ON/OFF, Change operation mode, Set temperature, Reset filter). ※1: When the local remote controller inactivation command is received from the main system controller, " " is displayed.	×	※1 ○
Prohibition/permission of specified mode (Cooling prohibited /heating prohibited /cooling-heating prohibited)	By the setting from System Controller, the operation for the following modes is prohibited. At cooling prohibited : Cool, Dry, Auto, At heating prohibited : Heat, Auto, At cooling-heating prohibited : Cool, Heat, Dry, Auto	×	○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit when the indoor unit is operating.	×	○
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	□
Test run	This operates air conditioner units in test run mode.	○	○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. LOSSNAY items that can be set are "Hi" "Low" "Stop". Ventilation mode switching is not available.	○	○
Function to limit the setting range of room temperature (Set temperature range limit)	Set temperature range limit to cooling, heating, or auto mode.	○	○
Easy-to-operate simplified locking function (Auto lock function)	Setting/releasing of simplified locking for remote control switch can be performed. · Locking of all switches · Locking of all switches except ON/OFF switch	○	○

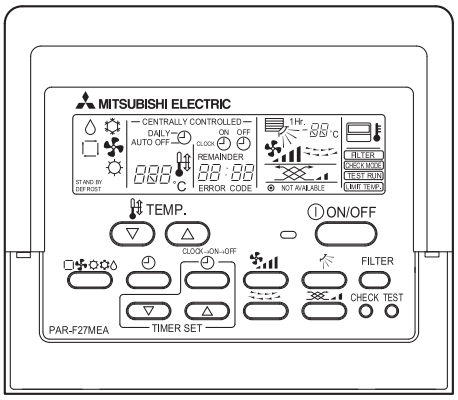
■ System example



■ External dimension



2-3. ME remote controller [PAR-F27MEA]



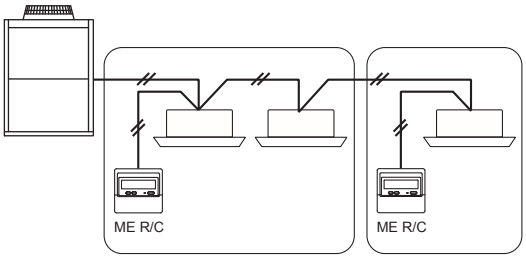
- This remote control requires non-polar wiring to only one indoor unit.
- Group operation over multiple outdoor units is possible. Grouping can be changed without re-wiring, which makes dividing rooms for tenant easier
- Timer operation
  ※: Daily timer operation of one ON/OFF setting everyday
  ※: Auto-off timer : 0:30, 1:00, 1:30, 2:00...4:00
  ※: The setting is kept in nonvolatile memory.
- Function lock
  All functions or all functions except ON / OFF can be selected.
- Ability to limit the set temperature by oneself for system controller (upper and lower temperature can be set)
- Interlock setting and operation of LOSSNAY

■ Functions

□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

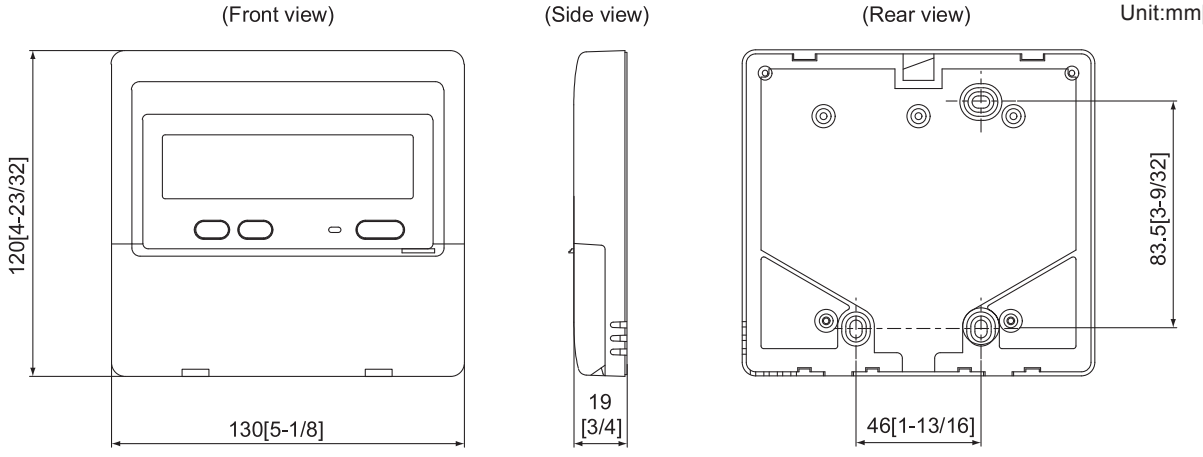
Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a single group	○	○
Operation mode switching	Switches between Cool / Dry / Auto / Fan / Heat. Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only.	○	○
TEMP. Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19˚C - 30˚C (14˚C - 30˚C) Heat : 17˚C - 28˚C (17˚C - 28˚C) Auto : 19˚C - 28˚C (17˚C - 28˚C)	○	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-1/Mid-2/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Fan speed setting varies depending on the model.	○	○
Air flow direction setting	Air flow direction angles (4-angle, Swing) Louver ON/OFF Air flow direction settings vary depending on the model.	○	○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (ON/OFF, Change operation mode, Set temperature, Reset filter). ※1: When the local remote controller inactivation command is received from the master system controller, "-CENTRALLY CONTROLLED-" is displayed.	×	※1 ○
Prohibition/permission of specified mode (Cooling prohibited /heating prohibited /cooling-heating prohibited)	By the setting from System Controller, the operation for the following modes is prohibited. At cooling prohibited : Cool, Dry, Auto, At heating prohibited : Heat, Auto, At cooling-heating prohibited : Cool, Heat, Dry, Auto	×	○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit when the indoor unit is operating.	×	○
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	□
Timer operation	Thanks to the three timer modes equipped, a proper mode can be selected to meet the usage. One day timer : ON/OFF setting of one time on one day can be applied. Daily timer : ON/OFF setting by the One day timer can be repeated for everyday. Auto OFF timer : OFF timer can be set in a range from 30 minutes to 4 hours. ※Setting of Auto OFF timer automatically activates OFF timer at the next operation. This function can be utilized to prevent the negligence of OFF setting.	○	○
Test run	This operates air conditioner units in test run mode.	○	○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. LOSSNAY items that can be set are "Hi" "Low" "Stop". Ventilation mode switching is not available.	○	○
Function to limit the setting range of room temperature (Set temperature range limit)	Set temperature range limit to cooling, heating, or auto mode.	○	○
Easy-to-operate simplified locking function (Auto lock function)	Setting/releasing of simplified locking for remote control switch can be performed. · Locking of all switches · Locking of all switches except ON/OFF switch	○	○

■ System example

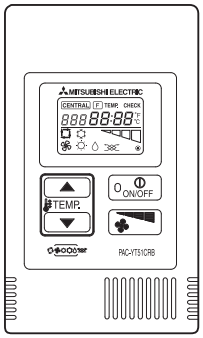


R/C: Remote Controller

■ External dimension



2-4. Simple MA remote controller [PAC-YT51CRB]



- Control:ON/OFF, room temperature, fan speed, and operation mode
- The only wiring required is cross-over wiring based on two-wire signal lines.
- Room temperature sensors are built-in.
- Set temperature range limit
- Can operate all types of indoor units

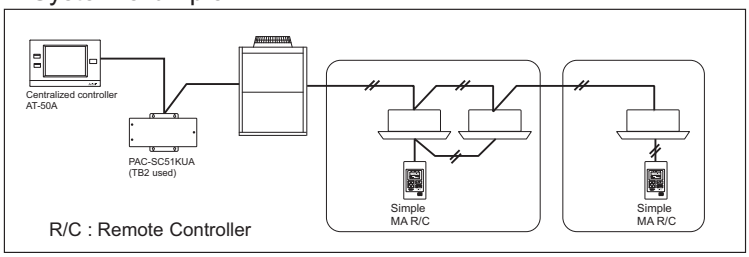
∗: Since this controller has limited functions, it should always be used in conjunction with standard controller or centralized controller.

■ Functions

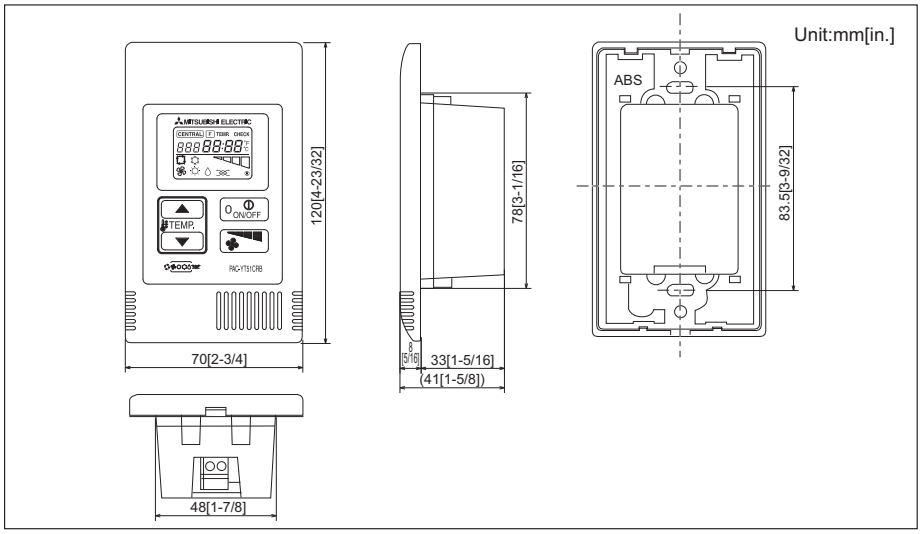
□:Each unit ○:Each group ■:Each block
△:Each floor ◎:Collective ×:Not available

Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a single group	○	○
Operation mode switching	Switches between Cool / Dry / Auto*/ Fan / Heat. Operation modes vary depending on the air conditioner unit. *Auto only supported for the City Multi R2 and WR2 series.	○	○
Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19℃ - 30℃ (14℃ - 30℃) / 67℉ - 87℉ (57℉ - 87℉) Heat : 17℃ - 28℃ (17℃ - 28℃) / 63℉ - 83℉ (63℉ - 83℉) Auto : 19℃ - 28℃ (17℃ - 28℃) / 67℉ - 83℉ (63℉ - 83℉)	○	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-1/Mid-2/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Fan speed setting (including Auto) varies depending on the model.	○	○
Air flow direction setting	Air flow direction angles (4-angle, Swing) Louver ON/OFF Air flow direction settings vary depending on the model.	×	×
Timer operation	Not available	×	×
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (ON/OFF, Set temperature). ∗1: When the local remote controller inactivation command is received from the main system controller, "CENTRAL" is displayed.	×	※1 ○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	×	×
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	□
Test run	This operates air conditioner units in test run mode. ∗2: The display for test run mode will be the same as for normal ON/OFF (no display "test run").	○	※2 ○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY.	○	×
Function to limit the setting range of room temperature (Set temperature range limit)	Set temperature range limit to cooling, heating, or auto mode.	○	○
Prohibition/permission of specified mode /heating prohibited /cooling-heating prohibited)	By the setting from System Controller, the operation for the following modes is prohibited. At cooling prohibited : Cool, Dry, Auto, At heating prohibited : Heat, Auto, At cooling-heating prohibited : Cool, Heat, Dry, Auto	×	○

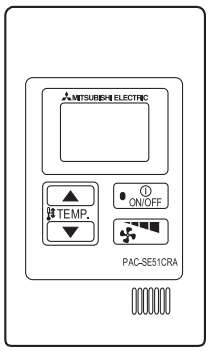
■ System example



■ External dimension



2-5. Simple ME remote controller [PAC-SE51CRA]



- Control: ON/OFF, room temperature, fan speed.
- The only wiring required is cross-over wiring based on two-wire signal lines.
- Room temperature sensors are built-in.
- Ability to limit the set temperature by AT-50A (upper and lower temperature can be set)
- Can operate all types of indoor units

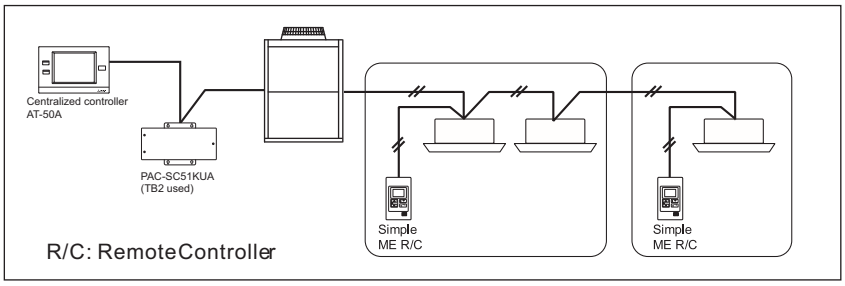
※: Since this controller has limited functions, it should always be used in conjunction with standard controller or centralized controller

■ Functions

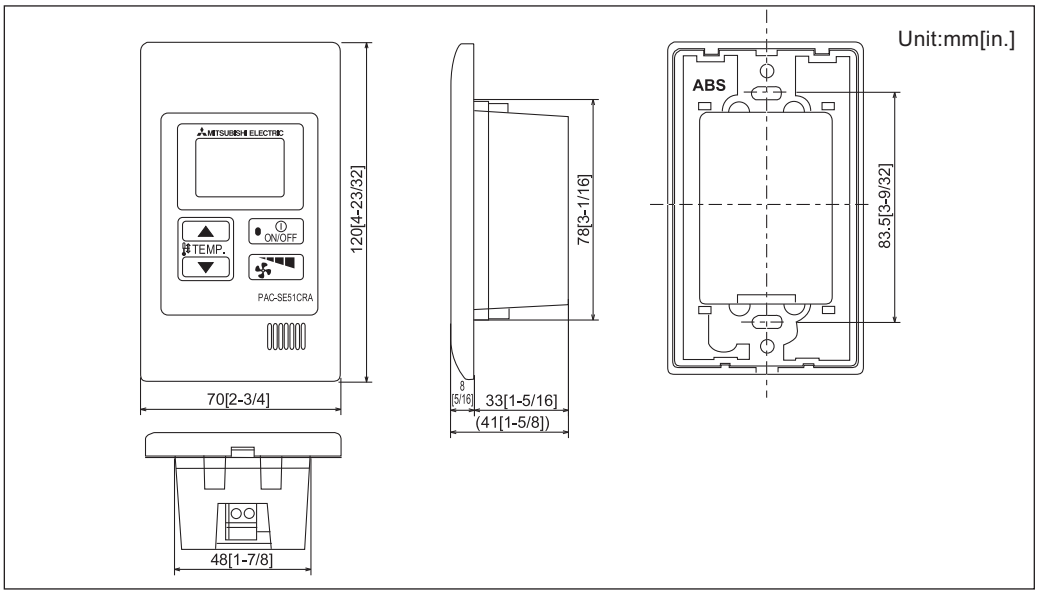
□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a single group	○	○
Operation mode switching	Switches between Cool / Dry / Auto / Fan / Heat. Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only.	×	○
Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19˚C - 30˚C (14˚C - 30˚C) Heat : 17˚C - 28˚C (17˚C - 28˚C) Auto : 19˚C - 28˚C (17˚C - 28˚C)	○	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-1/Mid-2/Low Models with 3 air flow speed setting: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Fan speed setting varies depending on the model.	○	○
Air flow direction setting	Air flow direction angles (4-angle, Swing) Louver ON/OFF Air flow direction settings vary depending on the model.	×	×
Timer operation	Not available	×	×
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (ON/OFF, Set temperature). ※1: When the local remote controller inactivation command is received from the master system controller, "CENTRAL" is displayed.	×	※1 ○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	×	×
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	□
Test run	This operates air conditioner units in test run mode. ※2: The display for test run mode will be the same as for normal start/stop (no display "test run").	×	※2 ○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY.	○	×
Function to limit the setting range of room temperature (Set temperature range limit)	The range of room temperature setting can be limited by the initial setting. The lowest limit temperature can be made higher than the usual (19˚C) at cooling/drying, while the upper limit temperature lower than the usual (28˚C) at heating. ※ This function is available only when applying together with TG-2000A and AG-150A.	×	○

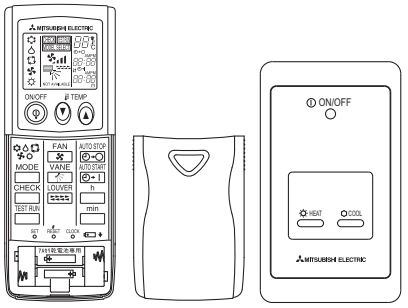
■ System example



■ External dimension



2-6. Wireless remote controller [PAR-FL32MA / PAR-FA32MA]



PAR-FL32MA

PAR-FA32MA
(Signal receiving unit)

■ Functions

□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a single group	○	○
Operation mode switching	Switches between Cool / Dry / Fan / Heat / Auto.* Operation modes vary depending on the air conditioner unit. *Auto only supported for the City Multi R2 and WR2 series.	○	○
Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19°C - 30°C (14°C - 30°C) / 67°F - 87°F (57°F - 87°F) Heat : 17°C - 28°C (17°C - 28°C) / 63°F - 83°F (63°F - 83°F) Auto : 19°C - 28°C (17°C - 28°C) / 67°F - 83°F (63°F - 83°F) ( ) For PEFY/PFFY by setting DipSW 7-1 to ON and limits to NI6H fan speed only. ※ Set to PAR-FL32MA according to its Installation Manual 4 "Model setting".	○	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-1/Mid-2/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Auto setting varies depending on the model.	※	※
Air flow direction setting	Air flow direction angles (4-angle, Swing) Auto Louver ON/OFF. Air flow direction settings vary depending on the model.	※	※
Timer operation	One ON/OFF setting can be set for one day.	○	○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (ON/OFF, Change operation mode, Set temperature, Reset filter). ※1: If operation is performed when the local remote controller inactivation command is received from the main system controller, a buzzer will ring and an LED will flash.	×	※1 ○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit when the indoor unit is operating.	×	×
Error	When an error occurs on the air conditioner unit, the operation lamp on the signal receiving unit will flash.	×	○
Test run	This operates air conditioner units in test run mode.	○	○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY.	×	×

※ Some models will have different display for the air flowdirection and fan speed. Set the air flow direction and fan speed when performing initial setting.

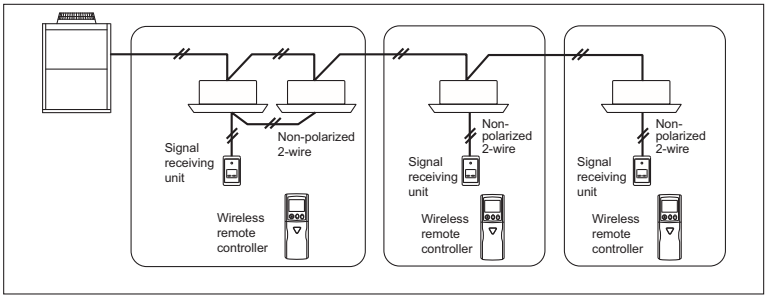
- It can operate in a group system without requiring address settings.
- When operating, it displays LED lamps. When errors occur, the error code can be shown by the LED flash count.

※: If an indoor unit with different functionality is operating inside the same group, please note there may be cases when functionality is partially disabled for batch control.

※: Wireless remote controllers can only be used for a single refrigerant system.

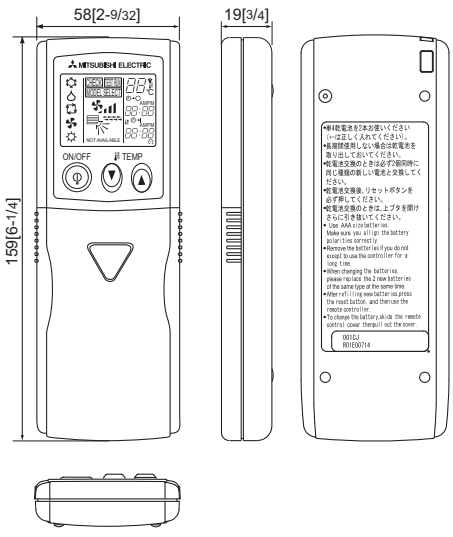
※: If you use a system controller to centrally control a group, you will need cross-wiring between indoor units when using a wireless remote controller.
Also ensure there is no difference between the group setting of the main system controller and the cross wiring across indoor units when wiring and setting cross wires.

■ System example

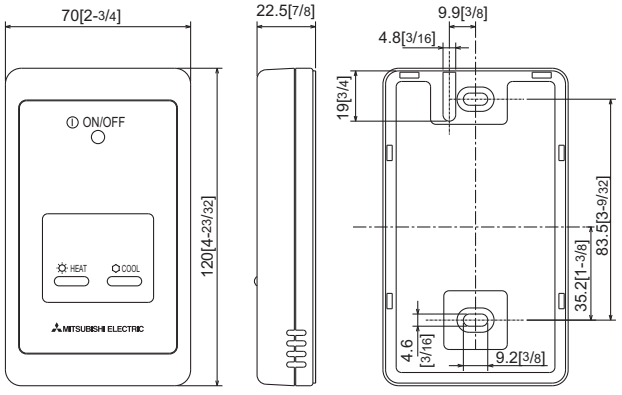


■ External dimension

PAR-FL32MA

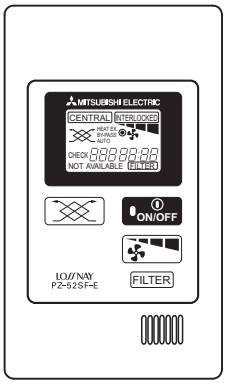


PAR-FA32MA



Unit:mm[in.]

2-7. LOSSNAY remote controller [PZ-52SF]



- Stand-alone LOSSNAY operation is possible by commands from a centralized controller or LOSSNAY remote controller. (AT-50A is centralized controllers that support LOSSNAY operation.)
- The LOSSNAY remote controller is capable of changing the air flow and vent modes.
- All the wiring is cross-wiring that uses non-polar two wire system signal cables.

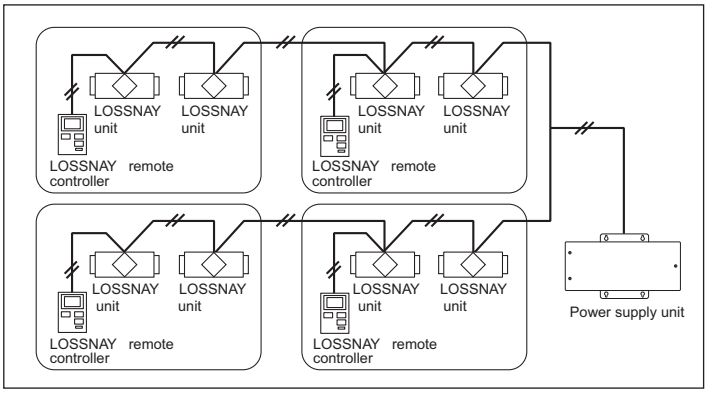
※ : When setting up a LOSSNAY stand-alone system or when setting up a LOSSNAY and centralized controller system, connect a power supply unit for the signal cables.
※ : It is impossible to use a LOSSNAY remote controller for LOSSNAY unit that is interlocked with other indoor units (except for some models).
※ :This product is in short supply.

■ Functions

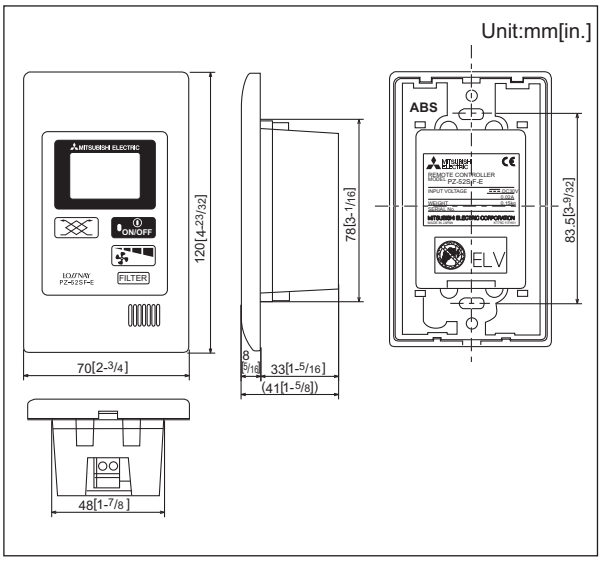
□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a LOSSNAY unit	○	○
Operation mode switching	Switches between automatic ventilation/ vent - heat interchange/ normal ventilation Note: Operation modes vary depending on the model. When connecting to only models without a damper, these models cannot be used.("NOT AVAILABLE" will appear in the display.)	○	○
Temperature setting	Not available	×	×
Fan speed setting	Models with 2 air flow speed settings: Hi/Low When only connected to single notch models, this function is disabled.	○	○
Air flow direction setting	Not available	×	×
Timer operation	Not available	×	×
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (ON/OFF, Reset filter). ※1: When the local remote controller inactivation command is received from a main system controller, " CENTRAL " is displayed.	×	※1 ○
Indoor unit intake temperature	Not available	×	×
Error	When an error occurs on the air conditioner unit, the operation lamp on the signal receiving unit will flash.	×	□
Test run	There is no test run switch for LOSSNAY remote controllers. Set test run on a LOSSNAY by using the test run switch on the LOSSNAY unit. ※2: Cancel by operating the ON/OFF switch after switching off the LOSSNAY unit test run switch.	※2 ×	○
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY.	○	○
Interlocked operation	Indicates it is being operated by an operation control unit's external control terminal for an interlocked system that contains LOSSNAY units and indoor units.	×	○

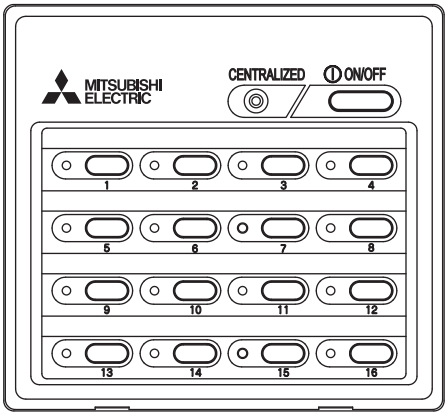
■ System example



■ External dimension



3-1. ON/OFF remote controller [PAC-YT40ANRA]



- 16 groups/50 units can be controlled.
  - Up to 16 groups/50 units can be operated with one ON/OFF remote controller.
  - A general-purpose interface is available for control, so general devices can also be turned ON and OFF.
- Just press a switch to start.
  - All of the units can be started and stopped by pressing the main switch, and each unit in the group can be started and stopped with individual switches.
- LED flashing during failure.
  - If any error should occur in the air conditioner, its details can be confirmed easily with the flashing LED. The LED also indicates whether each group is running or stopped.
- Interlock operation with external system possible.
  - It can be flexibly interlocked with a card reader, fire alarm system or building management system, etc., using the incorporated external input/output function.
- Flexible group setting.
  - The groups can be easily configured, so the group pattern can be freely set according to the layout.
  - The ON/OFF remote controller can be connected at the indoor/outdoor transmission line without the power supply unit.

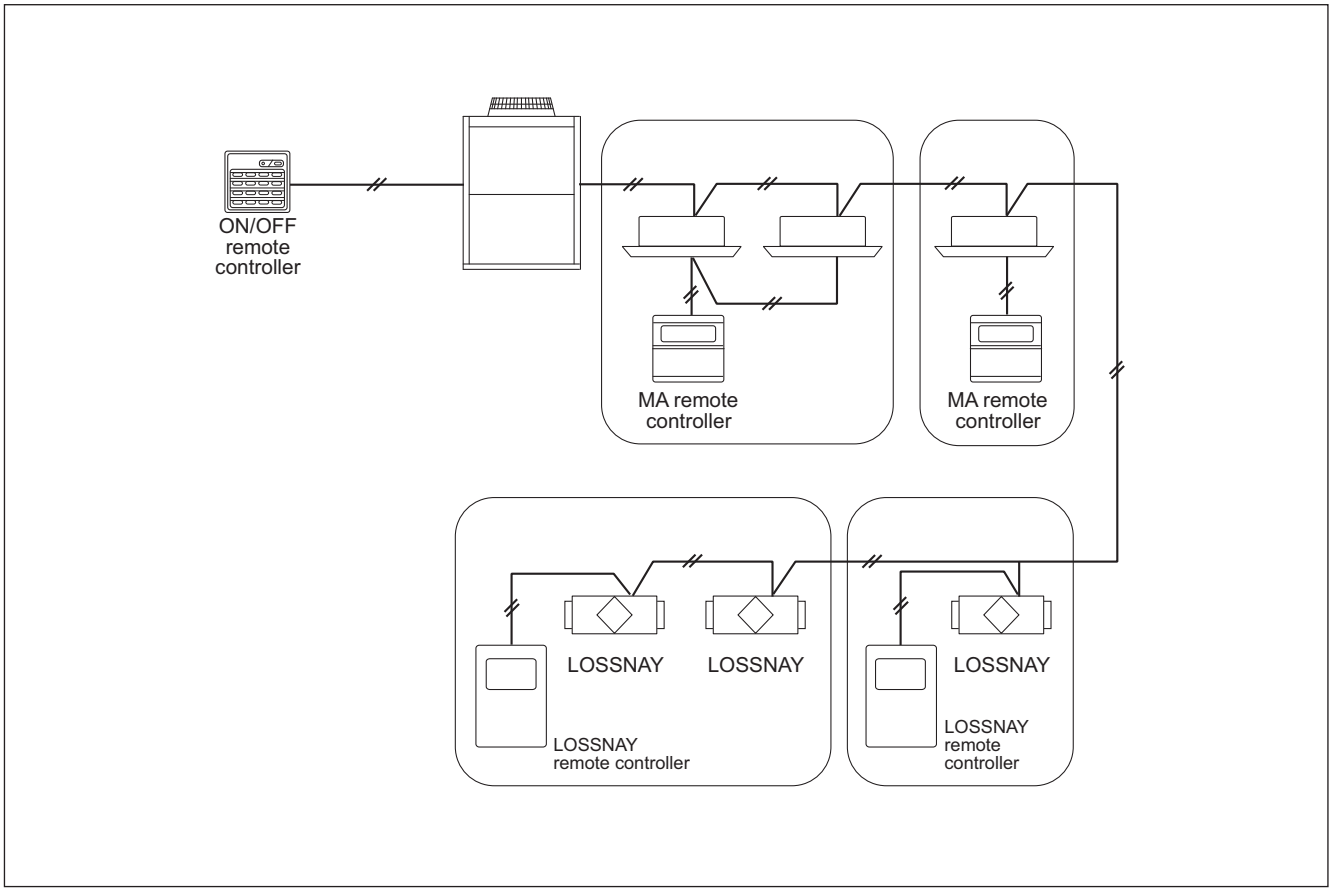
■ Functions

□: Each unit ○: Each group ●: Each block
△: Each floor ◎: Group or collective ×: Not available

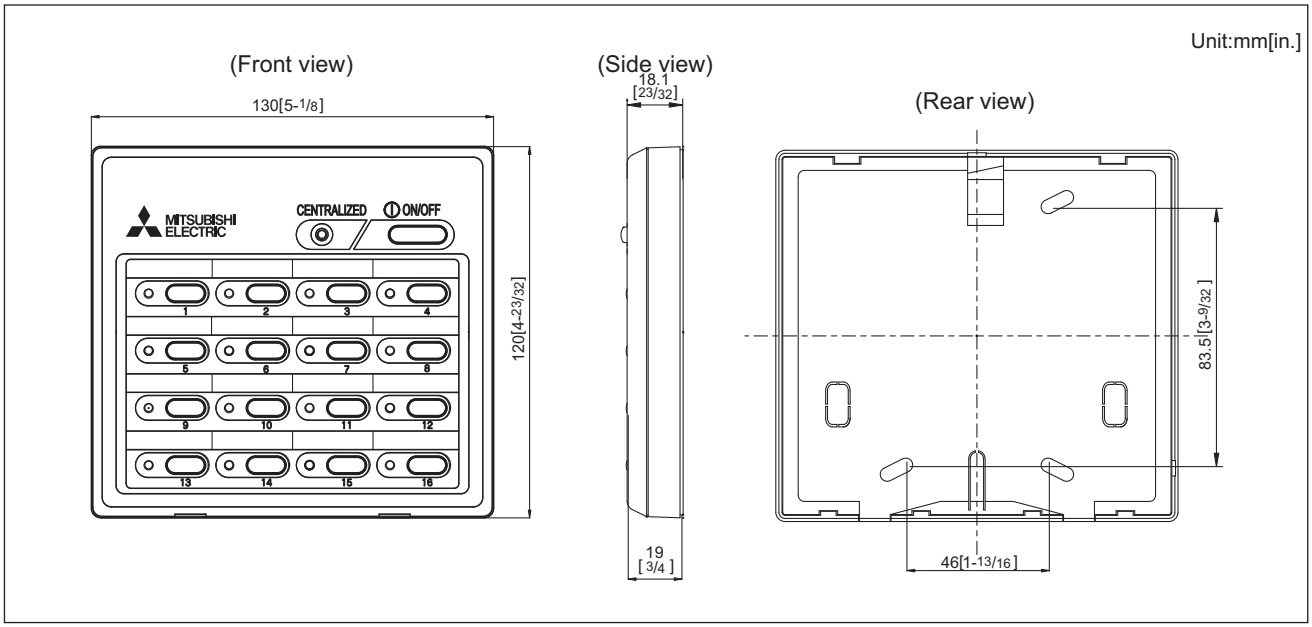
Item	Description	Operations	Display
ON/OFF	ON and OFF operation for the air conditioner units	◎	◎
Operation mode switching	Not available	×	×
Temperature setting	Not available	×	×
Fan speed setting	Not available	×	×
Air flow direction setting	Not available	×	×
Manual operation prohibit/permit (ON/OFF, operation mode, setting temperature, filter reset)	Compatible only with external input.	×	×
Specific mode operation prohibit (Cooling prohibit, heating prohibit, cooling/heating prohibit)	Not available	×	×
Room temperature display	Not available	—	×
Error display	LED flashes during failure. (The error code can be confirmed by removing the cover.)	—	△
Schedule operation	Not available	×	×
Ventilation operation (independent)	Group operation of only LOSSNAY units possible. ※ Only ON/OFF of group.	○	○
Ventilation operation (interlocked)	The LOSSNAY will run in interlock with the operation of indoor unit. ※ The fan rate and mode cannot be changed. The LED will turn ON only during operation after interlocking.	△	△
External input (Timer connection, emergency stop input, etc.)	The following can be input with the level signals or pulse signals. Level signal: "Emergency stop input" or "Collective ON/OFF" Pulse signal: "Collective ON/OFF" or "Local remote controller prohibit/permit" One input can be selected from those above.	◎	—
External output (Error output, operation output)	"ON/OFF" and "error/normal" are output with the level signal. ※ The optional output cable is required.	—	◎

3. System remote controller

■ System example



■ External dimension



3-2. Advanced touch controller [AT-50A]



- AT-50A features a 5 inch color LCD touch panel. The settings for air conditioning units can be changed by touching the corresponding icons on the display.
  On the panel of AT-50A are 3 buttons; ON/OFF, F1 and F2 enabling simple and quick operation.
- One AT-50A can control up to 50 groups/units of air conditioners.

Item	Description	Operations	Display
External input (Emergency stop input, etc.)	The following input with level signals or pulse signals are available. Level signal: "Emergency stop input" or "Collective ON/OFF" Pulse signal: "Collective ON/OFF" or "Local remote controller prohibit/permit" One input can be selected from those above. * An external input/output adapter (PAC-YT41HAA (sold separately)) is required. Relays and DC power supply or other devices must be prepared at the site.	◎	◎
External output (Error output, operation output)	"ON/OFF" and "error/normal" are output with the level signal. * An external input/output adapter (PAC-YT41HAA (sold separately)) is required. Relays and DC power supply or other devices must be prepared at the site.	◎	◎
Checking the Gas Amount	Use this function to check for refrigerant leak from the outdoor unit. * When this function is used, the gas amount checking function of the outdoor unit cannot be used. This function is for CITY MULTI R2 and Y(PUMY is excluded.) series only.	□	□
Main system controller /Sub system controller	AT-50A can be set to Sub System controller. When connecting multiple system controllers, designate the system controller with many functions as the "Main", and set the system controllers with few functions as the "Sub".	✓	–
Function Buttons (F1 Button, F2 Button)	The F1 button and the F2 button can be set as a run button of the following collective operation. (Setback/Schedule/Operation Mode/Temperture Correction/Remote Controller Prohibition)	◎	◎

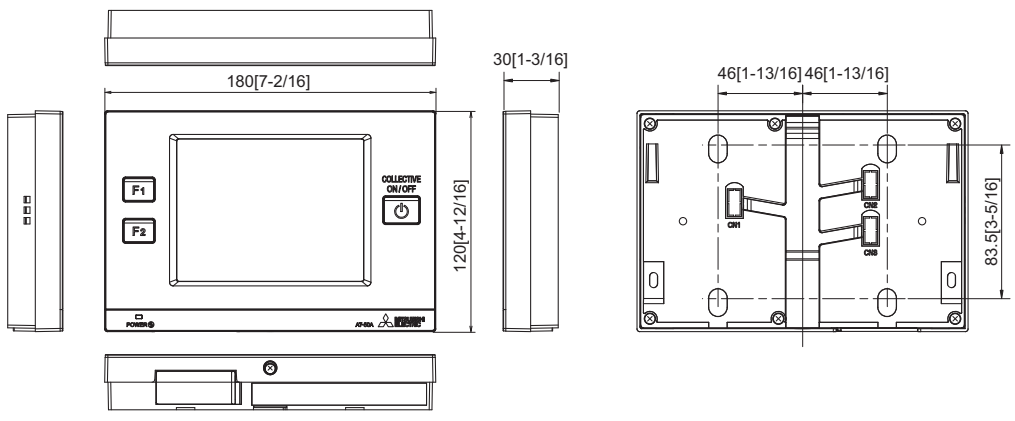
■ Functions

□:Each unit ○:Each group ●:Each block ✓:Available
△:Each floor ◎:Group or collective ×:Not available

Item	Description	Operations	Display
ON/OFF	ON and OFF operation for the air conditioner units. The Batch Operation ON/OFF button will light up when one or more air conditioning units are operated.	◎	◎
Operation mode switching	Switches between Cool / Dry / Auto / Fan / Heat Operation modes vary depending on the air conditioner unit. Auto mode is for CITY MULTI R2 and WR2 series only.	◎	◎
Temperature setting	The temperature can be set within the following range. Cool/Dry : 19°C - 30°C / 67°F - 87°F Heat : 17°C - 28°C / 63°F - 83°F Auto : 19°C - 28°C / 67°F - 83°F Setback : [Upper limit] 19°C-30°C [19°C-30°C] / 67°F-87°F [67°F-87°F] [Lower limit] 12°C-28°C [17°C-28°C] / 53°F-83°F [63°F-83°F] * [ ] in case of using Mr.SLIM units. * Set temperature range varies depending on the model.	◎	◎
Fan speed setting	Models with 5 air flow speed settings: Hi/Mid-1/Mid-2/Low, Auto Models with 4 air flow speed settings: Hi/Mid-1/Mid-2/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low * Fan speed setting (including Auto) varies depending on the model.	◎	○
Air flow direction setting	Air flow direction angles 4-angle or 5-angle, Swing, Auto Louver ON/OFF * Air flow direction settings vary depending on the model.	◎	○
Permit / Prohibit	The ON/OFF, operation mode, setting temperature and filter sign reset operations using the local remote controllers can be prohibited. Only ON/OFF and filter reset can be prohibited for the LOSSNAY group.	◎	◎
Operation lock	The operation lock can be set to the input operation of AT-50A. Each button can be set. (Function Button 1, Function Button2, Collective ON/OFF,Touch Panel) Each function can be set. (Operation mode, Setting temperature, Fan speed, Menu button) The password for the lock release can be set.	◎	◎
Error display	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. * When an error occurs, the "ON/OFF" LED flashes. The operation monitor screen show abnormal icon over the unit. The error monitor screen shows the abnormal unit address and error code. The error log monitor screen shows the time and date, the abnormal unit address, error code and source of detection.	×	□◎
Schedule operation	Weekly schedule setting up to 12 pattern is available. In one pattern, up to 16 setting of "ON/OFF", "Operation mode", "Set Temperature", "Fan speed", "Air flow direction" and "Permit / Prohibit local operation" can be scheduled. Two types of weekly schedule(Summer/Winter) can be set. Today's schedule setting up to 5 pattern in available. * Time setting unit: 5 minute /unit	○	○
Night setback setting	This function helps keep the indoor temperature in the temperature range while the units are stopped and during the time this function is effective.	◎	◎
Ventilation (independent)	Switches the mode "Bypass/Heat recovery/Auto" for LOSSNAY groups.	◎	◎
Ventilation (interlocked)	The LOSSNAY will run in interlock with the operation of indoor unit. The mode cannot be changed. The LED will turn ON during operation after interlocking.	◎	◎
Temperature-set limitation	Batch-setting to temperature range limit at cooling, heating, and auto mode. This function cannot be used with the MA remote controller. (Depends on the indoor unit model.)	◎	◎
Specific mode operation prohibit (Cooling prohibit, heating prohibit, cooling/heating prohibit)	When set as the main controller, operation of the following modes with the local remote controllers can be prohibited. When cooling is prohibited: Cooling, dry, automatic can not be chosen. When heating is prohibited: Heating, automatic can not be chosen. When cooling/heating is prohibited: Cooling, dry, heating, automatic can not be chosen.	◎	◎
System changeover	Operation mode can be switched to an optimal mode depending on indoor temperature setting and target temperature of each group or a representative indoor unit. * When this function is used, the system changeover function of the outdoor unit cannot be used.	●	–

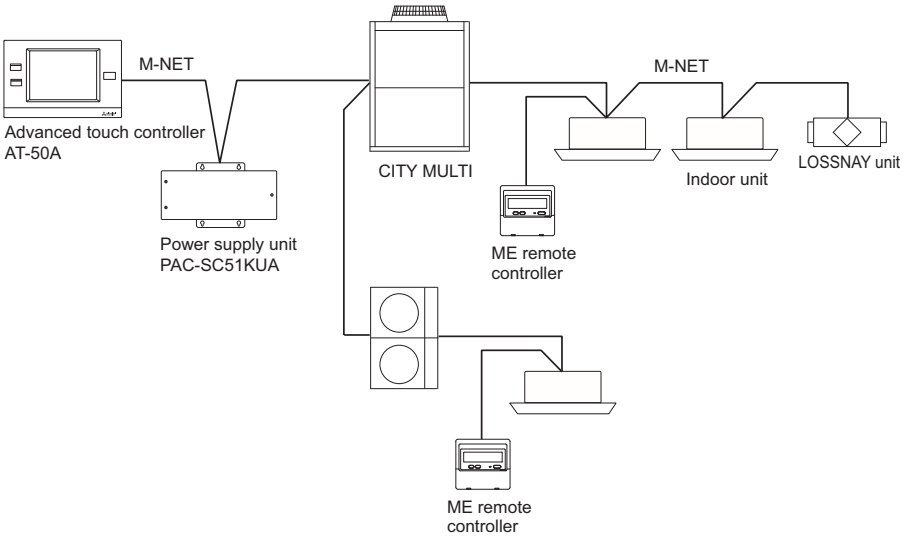
■ External dimension

Unit:mm[in.]

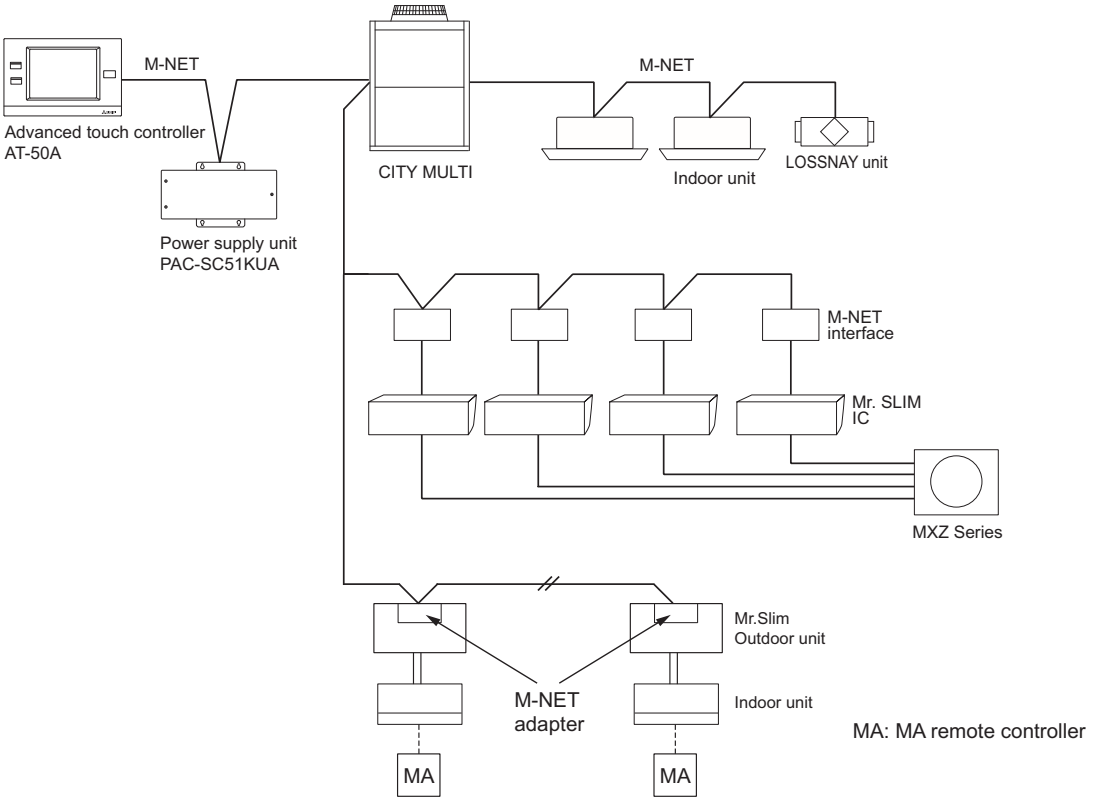


■ System example

(1) Connection with CITY MULTI units



(2) Connection with CITY MULTI and Mr.SLIM units



1. Power supply to AT-50A

AT-50A needs DC power supply of M-NET (24~32VDC) for centralized control transmission use, operation.

(1). Power supply of M-NET from power supply unit PAC-SC51KUA.
Power supply unit PAC-SC51KUA is recommended for AT-50A. See the diagram below ; for details, please refer to the installation manual of Power supply unit PAC-SC51KUA

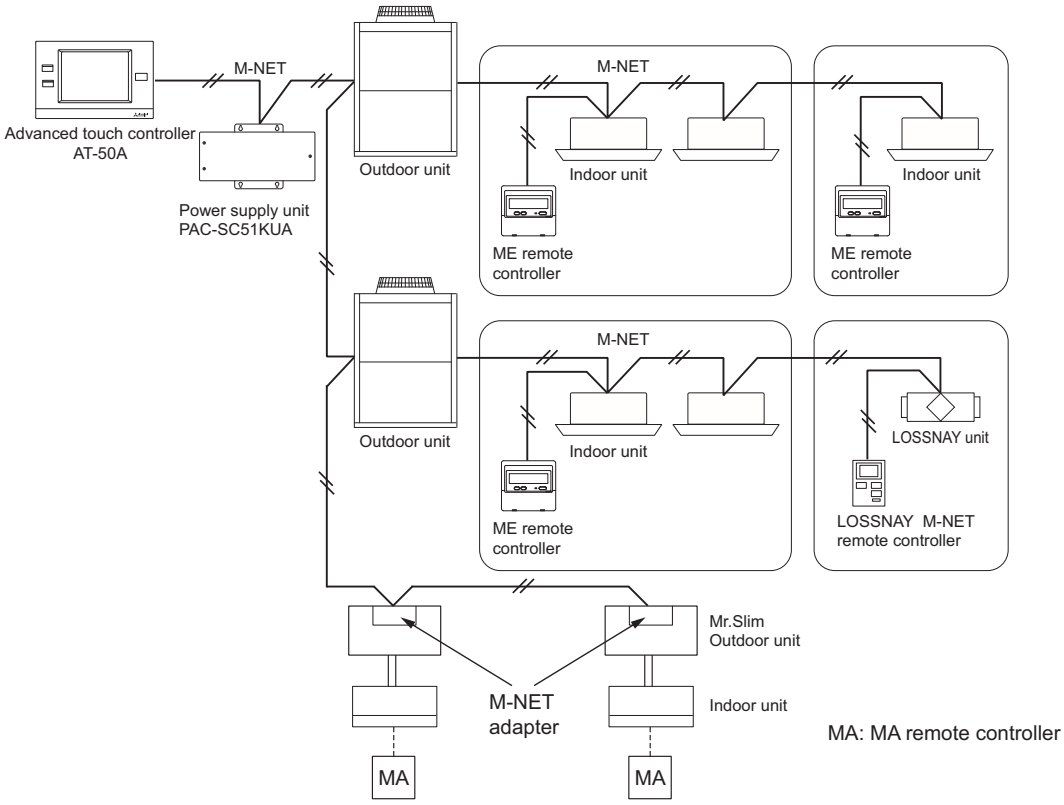


Fig. 1 Basic structure of AT-50A and PAC-SC51KUA

(2). Power supply of M-NET from outdoor unit connector TB7.
As shown on Fig. 2, AT-50A receives power supply of M-NET from R410A outdoor unit connector TB7.
In case one of the outdoor units should change its power supply, switch CN41 to CN40.
*NOTE: This method applies to R410A CITY MULTI outdoor unit except PUMY (S series)

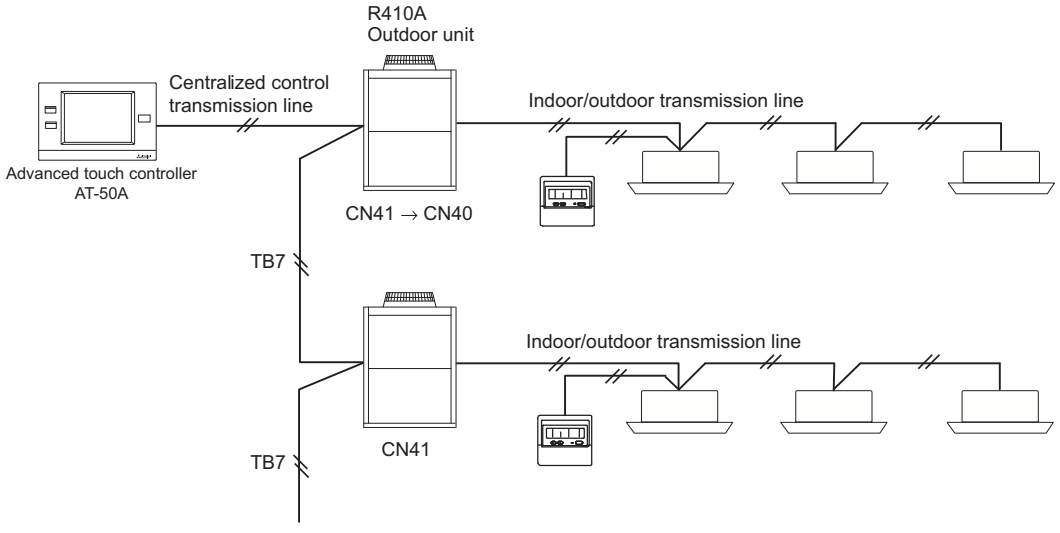


Fig. 2 AT-50A, TB7 scheme

(3) Power supply of M-NET from outdoor unit connector TB3.
AT-50A can also receive power supply from R410A/R407C/ R22 outdoor unit connector TB3. However, if the outdoor unit shuts down, AT-50A will also automatically shut down. Therefore, this scheme is not recommended for air conditioning system consisting of multiple outdoor units.

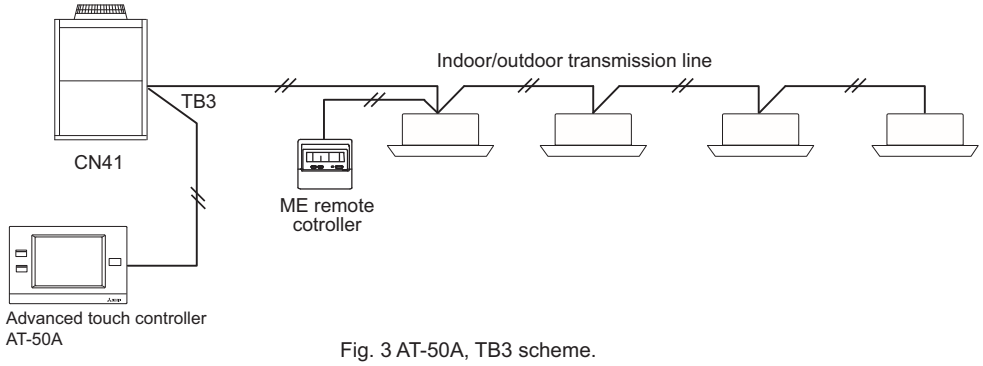
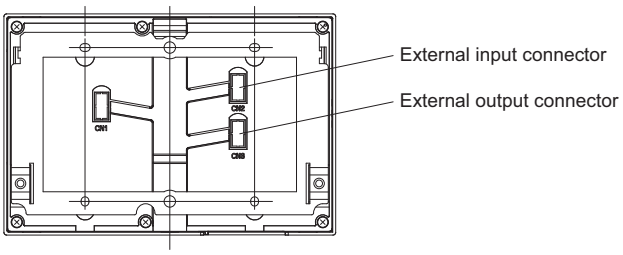


Fig. 3 AT-50A, TB3 scheme.

2. External input/output usage



(1). External signal input function

※ External signal input requires the external I/O adapter (Model: PAC-YT41HAA) sold separately.

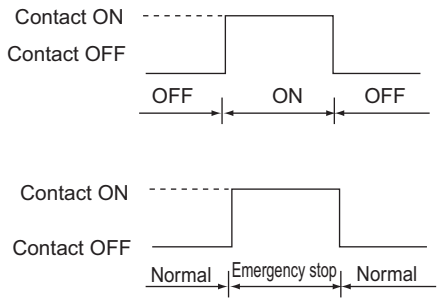
1). External input

External no-voltage contact signal can be used to send signals indicating the following status of all air conditioning units that are controlled : Emergency stop/Normal, ON/OFF, and local remote controller operation Prohibit/Permit.
The above settings can be made using the external input setting on the Initial Setting screen accessed from the Service Menu screen.

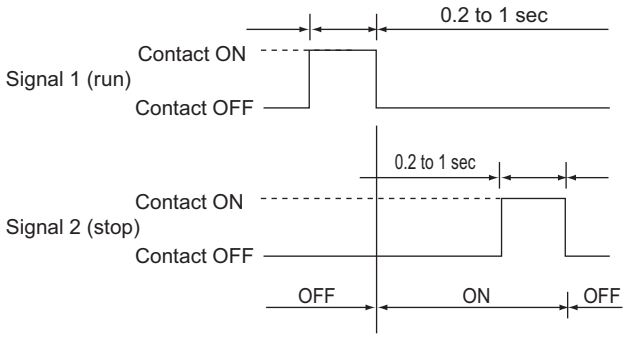
No	External signal input function	Remarks
1	Do not use external input signal (factory setting)	———
2	Execute emergency stop/normal with level signal	The local remote controller ON/OFF operations, and the controller ON/OFF operation and prohibit/enable change operations will be prohibited during emergency stop.
3	Perform ON/OFF with level signal	The local remote controller ON/OFF operations, and the controller ON/OFF operations and prohibit/enable change operations will be prohibited.
4	Perform ON/OFF, prohibit/enable with pulse signals.	Set the pulse width while the contact is ON to 0.2 to 1 sec.

2). Level signal and pulse signal

(A) Level signal



(B) Pulse signal
(Example) for ON/OFF



※ The prohibit/enable input is the same.

3). External input specifications

CN2	Lead wire	Emergency stop/normal level signal	ON/OFF, level signal	ON/OFF, prohibit/enable pulse signal
No.1	Green	Built-in power supply for external input (DC5V)		
No.2	Yellow	Emergency stop/normal input	ON/OFF input	ON input
No.3	Orange	Not used	Not used	OFF input
No.4	Red	Not used	Not used	Local remote controller operation prohibit input
No.5	Brown	Not used	Not used	Local remote controller operation enable input

(A) For level signal

① When the emergency stop/normal signal is selected, the status will change from normal to emergency stop when the external input signal contact changes from OFF to ON, and will change from emergency stop to normal when the contact changes from ON to OFF. Emergency stop signal will bring the air conditioners to stop, and canceling the emergency stop will not automatically reset these units. To go back to the previous operation status, they must be manually turned back on.

② When the ON/OFF signal is selected, the status will change from OFF to ON when the external input signal contact changes from OFF to ON, and will change from ON to OFF when the contact changes from ON to OFF.

(B) For pulse signal

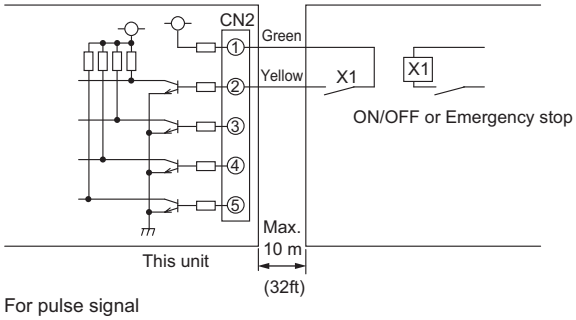
① Even if the ON signal is input during ON, the status will remain ON.

② If the local remote controller is prohibited, the ON/OFF operation mode and temperature setting operations by the local remote controller will be prohibited.

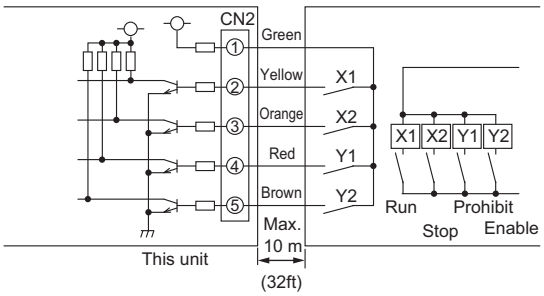
③ Set the pulse width (contact ON time) to 0.2 to 1 sec.

4). Recommended circuit example

(A) For level signal



(B) For pulse signal



① The relays and extension cables, etc. must be prepared separately at the site.
② Use a no-voltage contact and minute load relay (minimum application load 5VDC-1mA).
③ The length of the connection cable extension should not exceed 10 m (32 ft). (Use a cable of 0.3 mm^2 (22 AWG) or thicker.)
④ Cut of the cable not being used close the connector and properly insulate the cut off ends with tape or the like.

(2). External signal output function

※ External signal output requires the external I/o adapter (Model: PAC-YT41HAA) sold separately.

1). External output

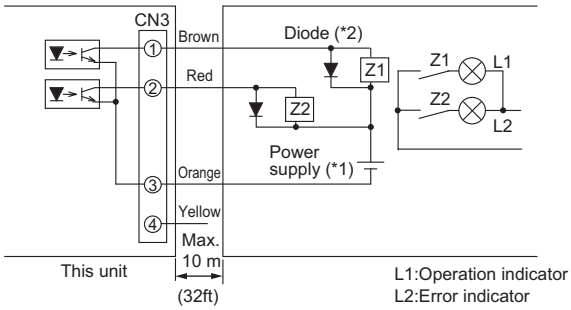
When one or more air conditioners are running, the “ON” signal will be output and if a malfunction occurs in one or more air conditioners, the “Malfunction” signal will be shown.

2). External output specifications

CN 3	Lead wire	Details of each terminal
No.1	Brown	ON/OFF
No.2	Red	Malfunction/normal
No.3	Orange	Common (External ground)
No.4	Yellow	

① " ON" signal and " Malfunction" signal will both be output.

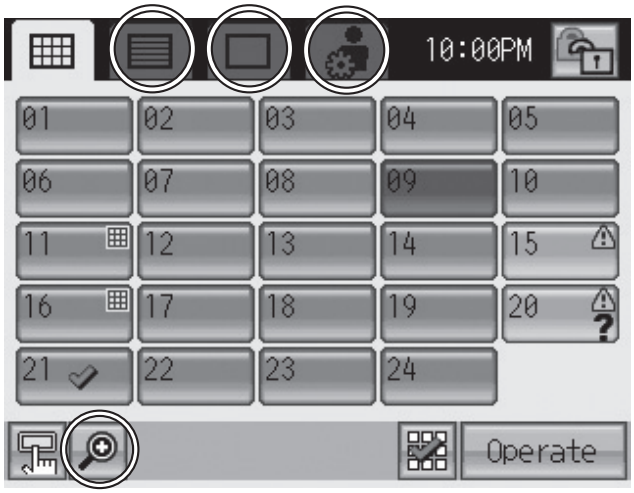
3). Recommended circuit example



Use Z1 and Z2 relays having the following specifications.
Operation coil
Rated voltage :12VDC,24VDC
Power Consumption : 0.9W or less
(*1)Prepare a power supply separately according to the relay being used. (12VDC or 24VDC)
(*2)Always insert a diode on both ends of the relay coil.

① Each element will turn on while ON operation or a malfunction occurs.
② The connection cable can be extended up to 10m (32ft).
③ The relays, lamps, diodes and extension cables, etc, must be prepared separately at the site.

3. Screens of AT-50A



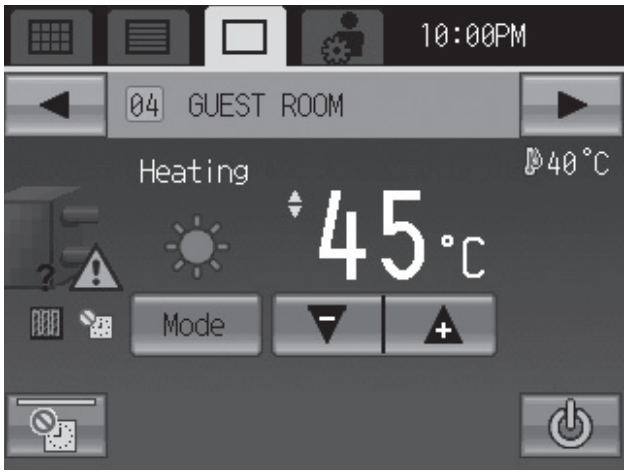
GRID (S)



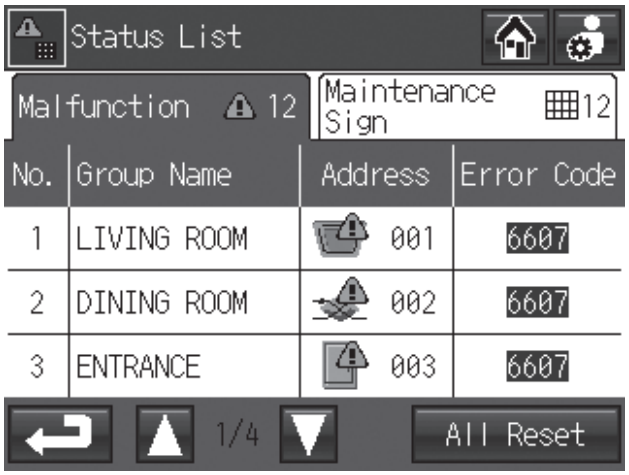
GRID (L)



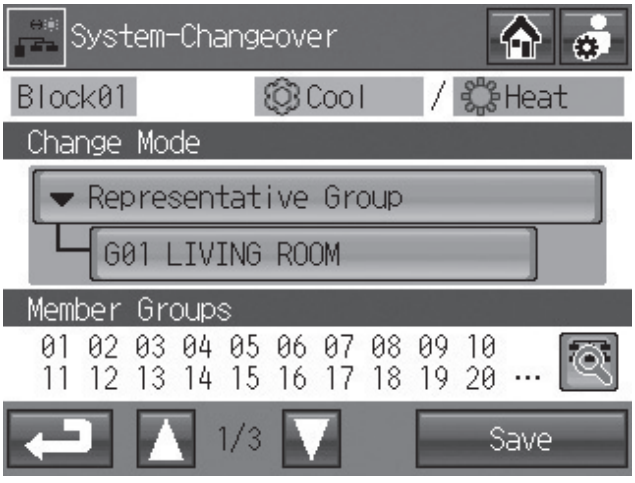
LIST



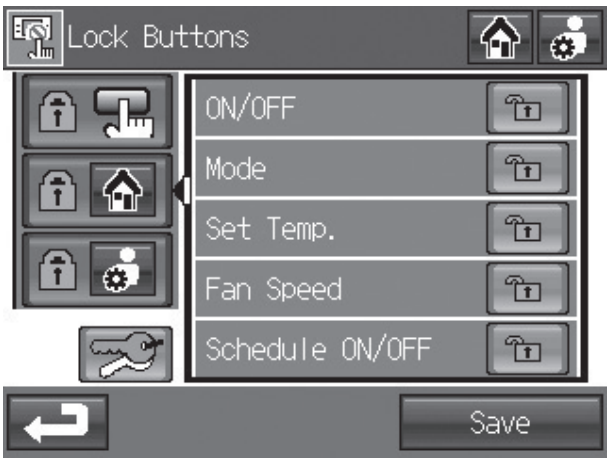
GROUP



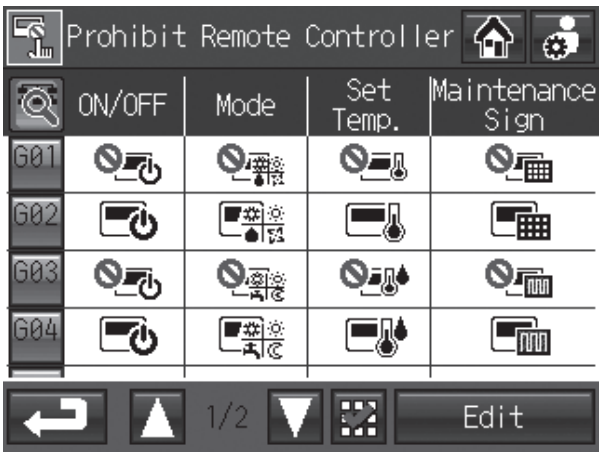
Status List



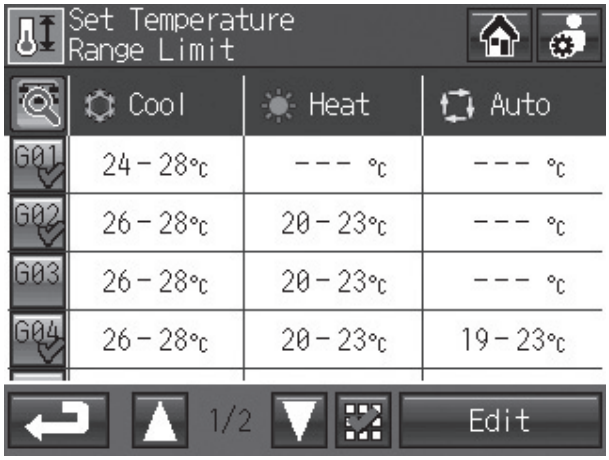
System-Changeover



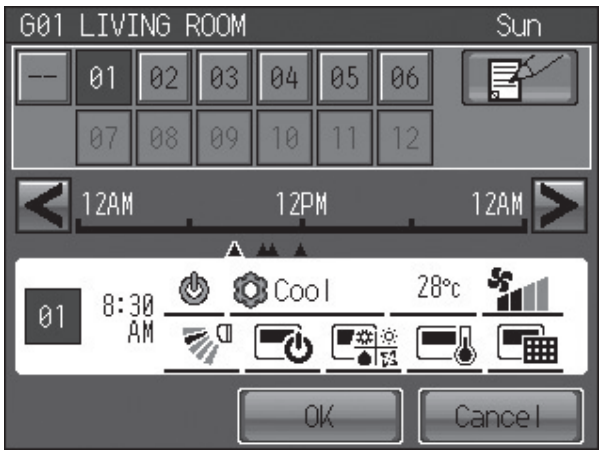
Operation Lock



Prohibit Remote Controller



Set Temperature Range Limit



Set Schedule



Display Format

3-3. Power supply unit [PAC-SC51KUA]

PAC-SC51KUA supplies DC power of M-NET (22-30V) at TB2.
* TB3 is not used.

1. When using PAC-SC51KUA as the power supplier for system controller, the capacity for system controller is considered as follows.

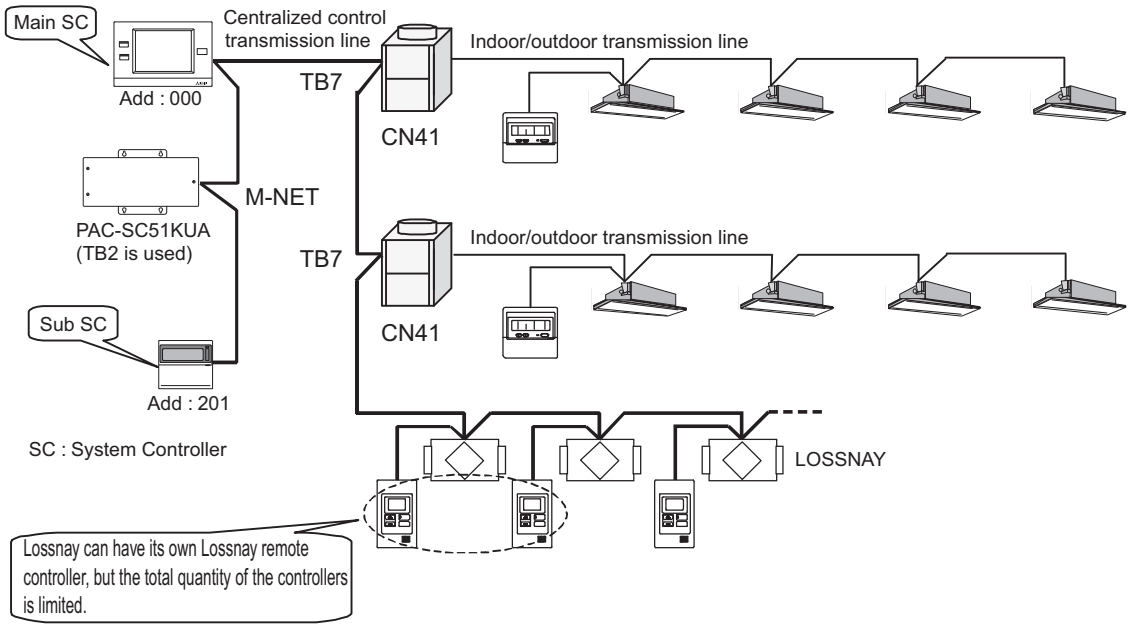


Fig. 1 Equivalent power consumption of controllers

In this case, pay attention to leave the power supply switch connector on CN41 of the Outdoor unit as the factory setting before shipment.

Taking the power consumption of the control board of Indoor unit as 1, the power consumption of various controllers is rated at Table 1.

Table 1 Equivalent power consumption of controllers

	System controllers	Remote controllers
Advanced touch controller (AT-50A)	ON/OFF remote controller (PAC-YT40ANRA)	ME remote controller (PAR-F27MEA) LOSSNAY remote controller (PZ-52SF)
4	1	0.25

PAC-SC51KUA is capable to supply equivalent power up to 5, therefore the maximum connectable number of system controller is as follows.

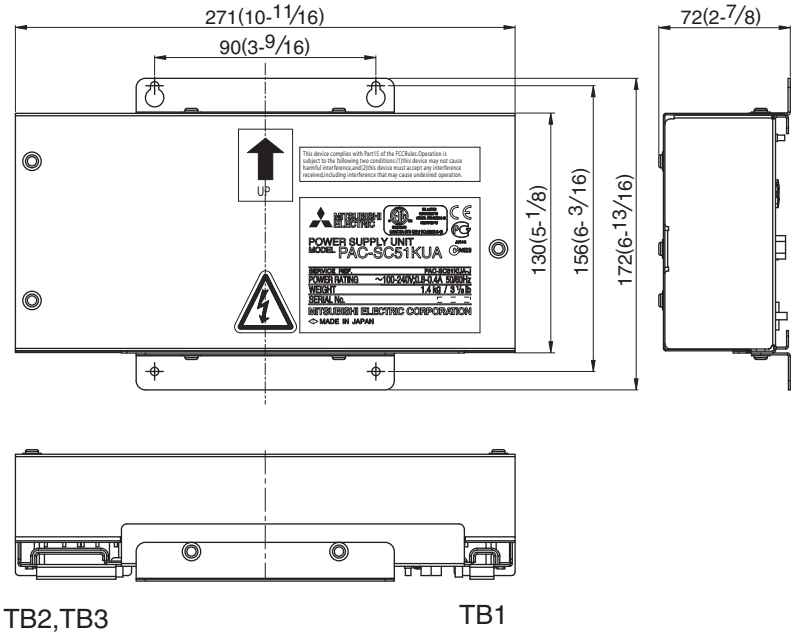
Table 2 Max. connectable quianity of controller when using PAC-SC51KUA

	System controllers	Remote controllers
Advanced touch controller (AT-50A)	ON/OFF remote controller (PAC-YT40ANRA)	ME remote controller (PAR-F27MEA) LOSSNAY remote controller (PZ-52SF)
1unit	5 units	20 units

As the air conditioner control system may combine all kinds of system controllers, the total power consumption of system controllers need to count with Table 2.
For example, the controller system contain 1 AT-50A, 4 Lossnay remote controllers connected at centralized control communication line.
Then the total power consumption is
$1 \times 4 + 4 \times 0.25 = 5 \leqq 5$.
One PAC-SC51KUA is therefore enough. The total power consumption should not exceed 5.

■ External dimension

Unit:mm[in.]



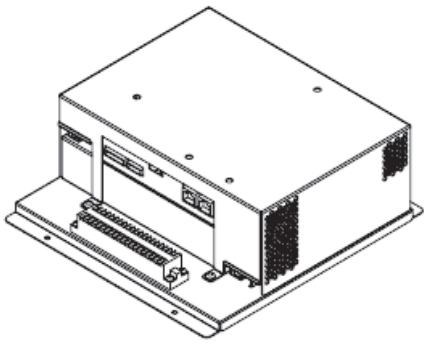
TB2,TB3 TB1

* TB3 is not used.

3-4. BM ADAPTER [BAC-HD150]

CITY MULTI can easily combine into a Building Management System (BMS) via the BACnet®and M-NET adapter BAC-HD150.
BACnet®is an opened transmission protocol widely used at BMS, and related equipment control.
CITY MULTI is therefore compatible with large-scaled BMS management via BACnet®.
BAC-HD150 can control up to 50 units/groups(including LOSSNAY).

■Specifications



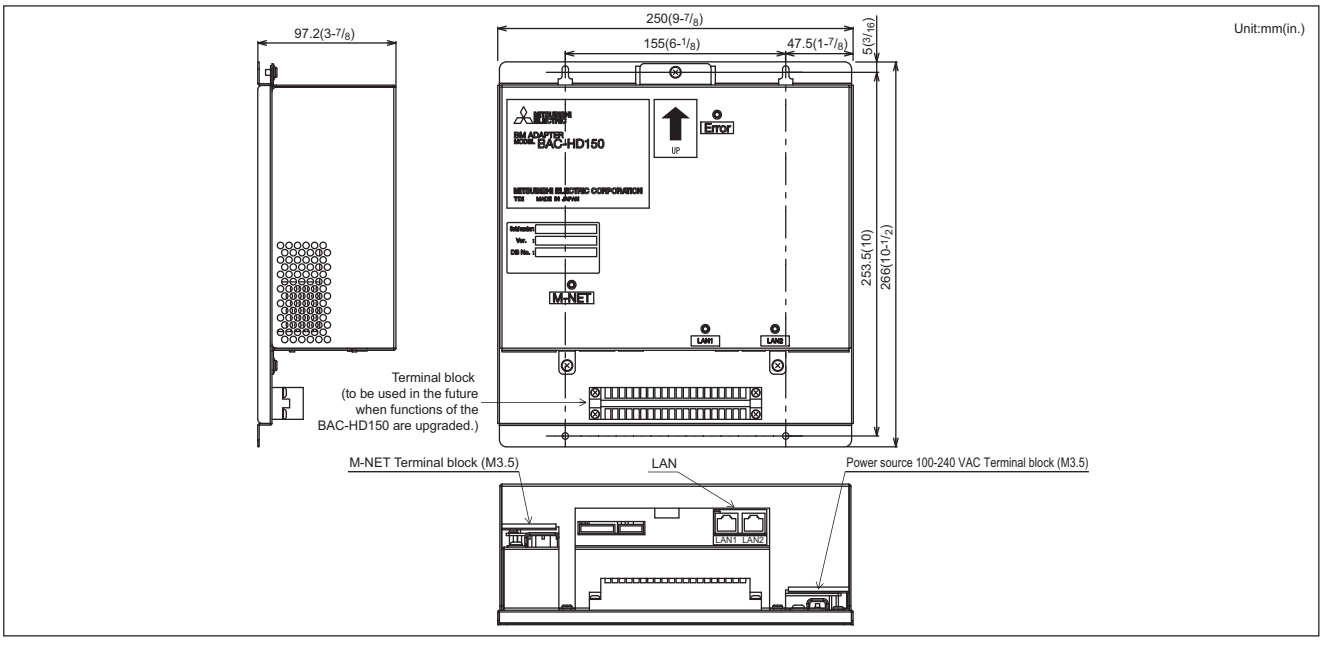
Items			Specifications
Power source	Rated input		100-240 VAC ±10 % 0.4-0.3 A 50/60 Hz
	Fuse		250 VAC 3.15 A Time-delay type (IEC127-2 S.S.5)
Interface	Rated output of the power supply to M-NET transmission lines		22-30 VDC
	LAN 1 (for BACnet®) LAN 2 (for Expansion Controller)		10Base-T or 100Base-TX
Ambient conditions	Temperature	Operating temperature range	-10 ~ 55°C (14 ~ 131°F)
		Storage temperature range	-20 ~ 60°C (-4 ~ 140°F)
	Humidity		30 ~ 90 %RH (Non-condensing)
Dimensions			266 (H) × 250 (W) × 97.2 (D) mm (10-1/2 (H) × 9-7/8 (W) × 3-7/8 (D) in.)
Weight			2.8 kg (6-3/16 lbs.)
Installation conditions			Inside the metal control panel (indoor)

■ Functions

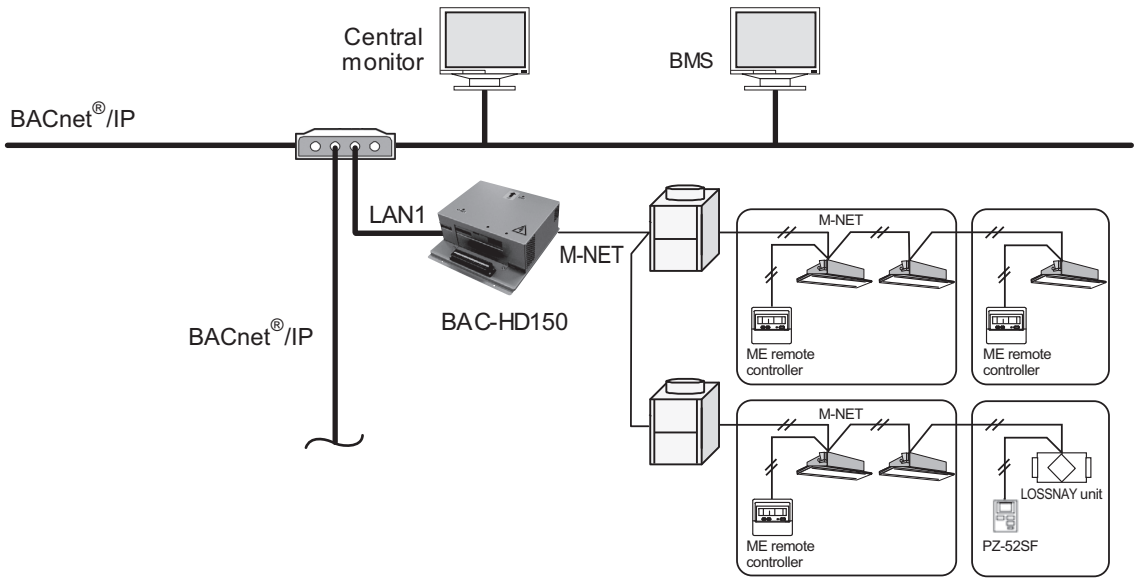
Communication items at BM Adapter

Operation	State Monitoring
On/Off	On/Off
Mode	Mode
Fan Speed	Fan Speed
Air Direction	Air Direction
Set Temp.	Set temp.
Filter Sign reset	Filter sign
	Indoor temperature
Prohibit local On/Off	Prohibit local On/Off
Prohibit local Mode	Prohibit local Mode
Prohibit local Filter sign reset	Prohibit local Filter sign reset
Prohibit local Set Temp.	Prohibit local Set Temp.
Forced Off	
	Alarm signal
	Error code
	Communication state

■ External Dimensions



■ System example (Connection of 50 units / groups)

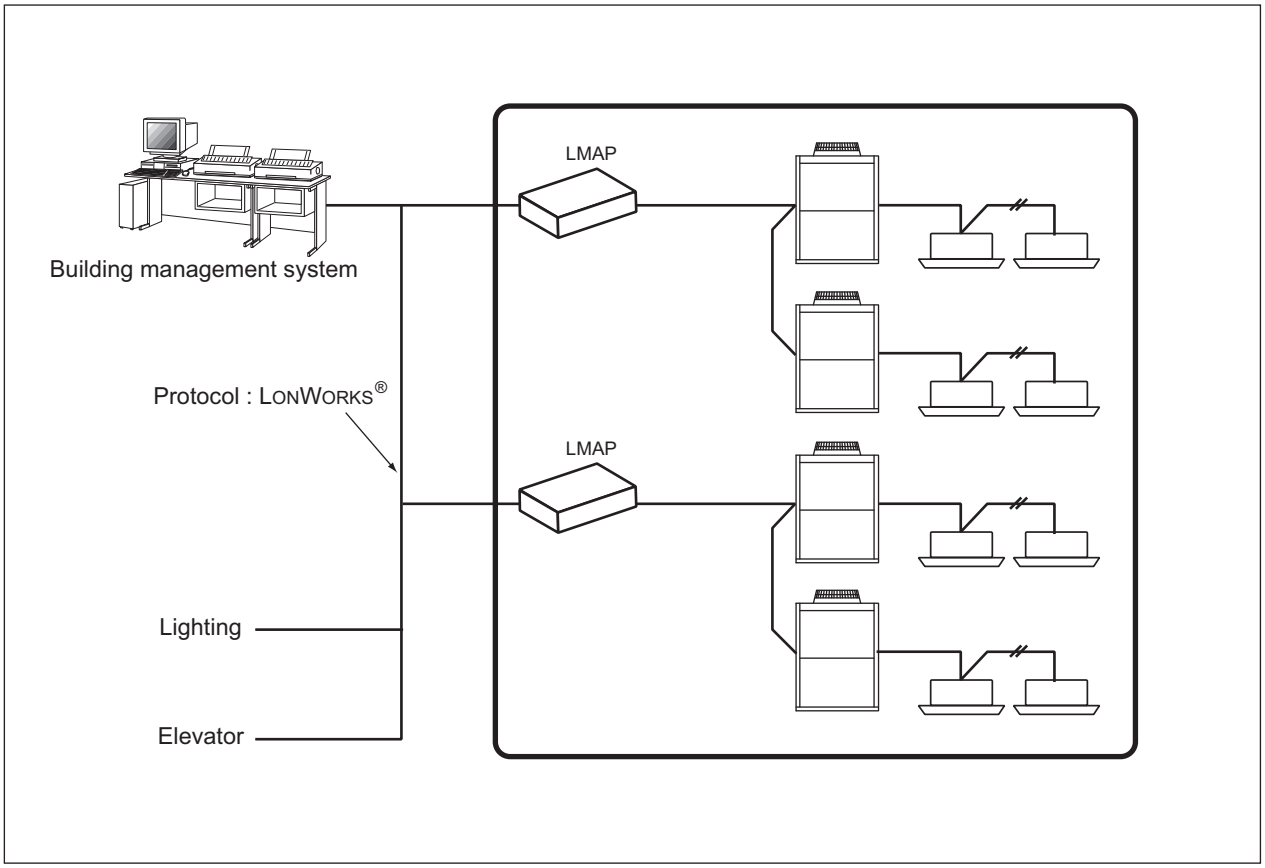


3-5. LONWORKS® interface [LMAP02-E]

CITY MULTI can easily combine into a Building Management System (BMS) via the LONWORKS® and M-NET adapter LMAP02-E. LONWORKS® is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS management via LONWORKS®.

One LMAP02-E serves up to 50 indoor units. (CITY MULTI , Mr.Slim , and LOSSNAY.)

■ System example



Communication items at LONWORKS® and M-NET Adapter LMAP02-E

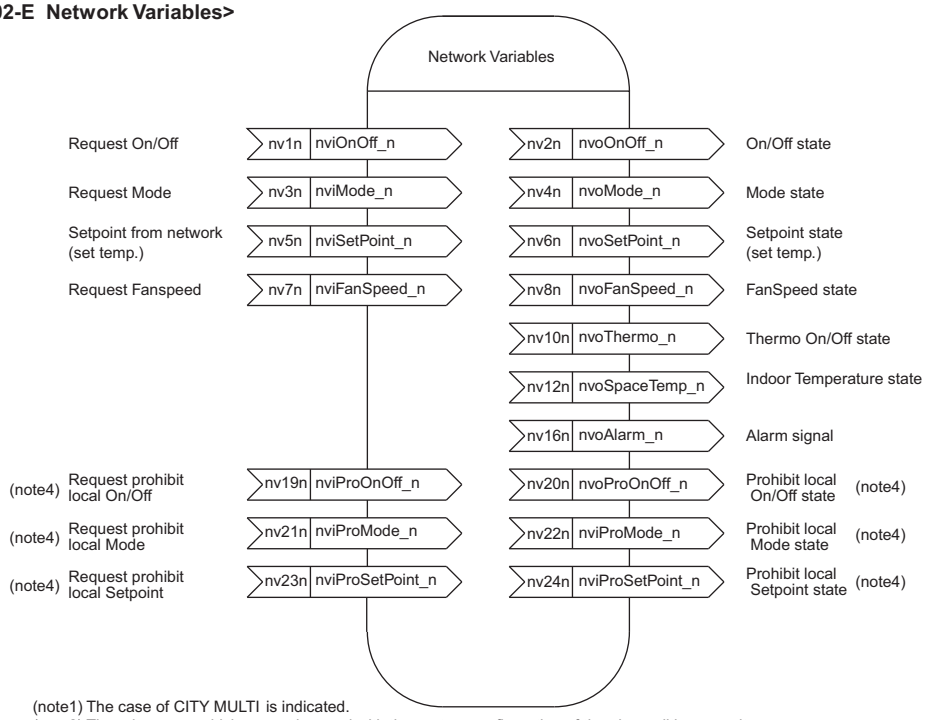
Operation	On/Off Mode Set point from network (Set temp.) Fan speed Prohibit local On/Off Prohibit local Mode Prohibit local Set temp. Batch Off	State Monitoring	On/Off Mode Set point from network (Set temp.) Fan speed Thermo On/Off Indoor temperature Alarm signal Prohibit local On/Off Prohibit local Mode Prohibit local Set temp.

■ Environment specification

Item		Description
Connected Equipment		MITSUBISHI ELECTRIC Multiple split-type air conditioners CITY MULTI Split-type air conditioners Mr.Slim Heat recovery ventilators LOSSNAY (※For details of the connectable models,please contact the dealer.)
Number of Units		LMAP can control 50 indoor units (including LOSSNAY)
Neuron CHIP		TMPN3150/FT3150-P20 (10MHz)
Network Transceiver		FTT-10A/FT-X1 (Free Topology 78kbps)
Performance	Average communication capacity	2.5 inputs/second
	Peak communication capacity	50 inputs/second (for one second)

※ The proper communication is not obtainable when communication intervals exceed its performance, assure sufficient intervals.
※ ACK Service is recommended for the network service.
※ Detailed specifications for the LONWORKS® network can be found in " FTT-10A Free Topology Transceiver User's Guide " or " FT3120/FT3150 Smart Transceiver Data Book " by Echelon Corporation.

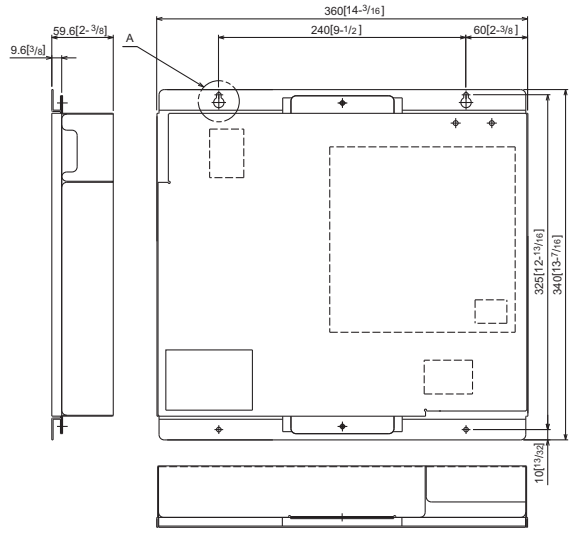
<LMAP02-E Network Variables>



(note1) The case of CITY MULTI is indicated.
(note2) There is a case which cannot be used with the system configuration of the air conditioners units.
(note3) "n" of the network variable shows indoor unit address (M-NET).
(note4) It is possible to use when the "MA/ME" remote controller.

■ External dimension

Unit:mm[in.]

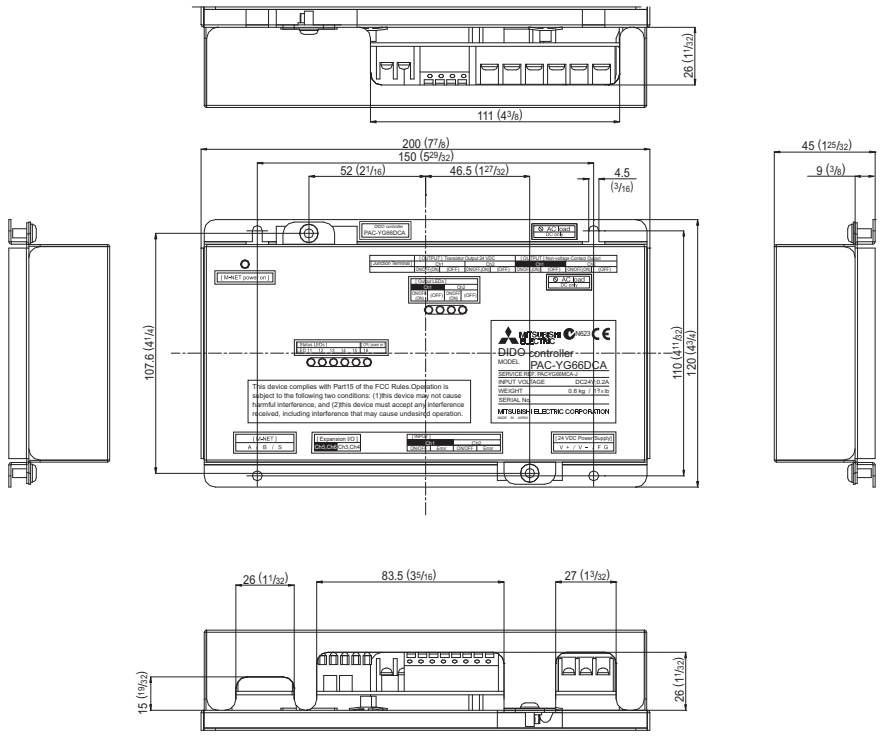


Item			Description
Dimensions			340 (H) x 360 (W) x 59.6 (D) [13-7/16(H) x 14-3/16 (W) x 2-3/8(D)]
Net Weight			3.3 kg
Power Source			~ 220 - 240V (50/60 Hz)
Current Consumption			50 mA (Maximum)
Operation Environment	Temperature	Operating Range	-15 to 43°C / 5 to 109°F
		Storage Range	-20 to 60°C / -4 to 140°F
	Humidity		30 to 95 RH (No condensation)
Installation Environment			Inside the metal control board (indoor)

3-6. DIDO controller [PAC-YG66DCA]

The DIDO controller is used in combination with AT-50A to operate general-purpose equipment, as well as to monitor operating and error status. It is equipped with two sets of standard terminals (Channels 1 and 2), and four sets of expansion connectors for the input/output terminals. Expansion cable is optional.
In addition, this device includes a function that interlocks M-NET devices such as indoor units, general equipment, etc.

■External Dimensions



Unit: mm (in)

⚠CAUTION

Usage Restrictions

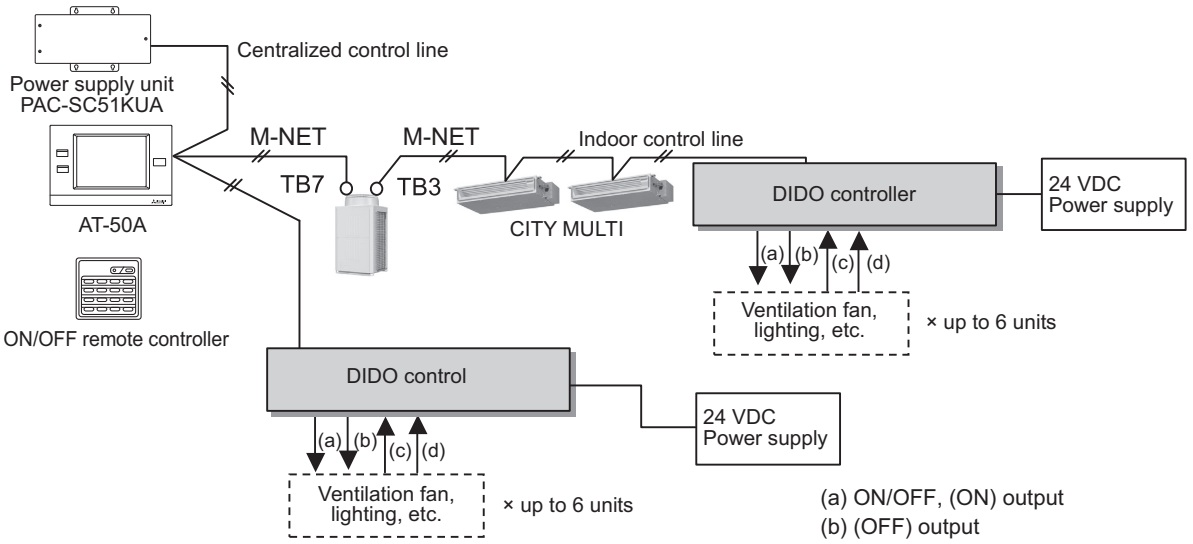
- Mitsubishi Electric does not take financial responsibility for damages caused by issues beyond our control or special circumstances (predicable or unpredictable); and secondary or accidental damages, and damages to other objects. We also do not take financial responsibility for opportunities lost as a result of device failure, or electrical power failure at the end-user site.
  Mitsubishi Electric does not take financial responsibility caused by end-users' requests including, but not limited to, device testing, startup, readjustment, and replacement.
- Do not use this device in disaster prevention, security, or "critical to life" applications.
- It is recommended to provide an external switch for general-purpose equipment in case of a failure of the DIDO controller or a peripheral part.

1. Specifications

(1). Device Specifications

<table>
<tr><th>Item</th><th colspan="6">Rating and Specification</th></tr>
<tr><td>Power Supply</td><td colspan="5">24 VDC ±10%: 5 W (*1)</td><td>Screw terminal block (M3) (*8)</td></tr>
<tr><td rowspan="9">Interface</td><td colspan="3">M-NET communication</td><td colspan="2">17 to 30 VDC (*2)</td><td>Screw terminal block (M3) (*8)</td></tr>
<tr><td rowspan="4">Standard</td><td rowspan="2">Output (*3)</td><td>ON/OFF, (ON) (*4)</td><td>Non-voltage Relay contact (2)</td><td>Applied load
MAX: 24 VDC, 5 W
MIN: 5 VDC, 2 mW
* AC loads cannot be connected.</td><td>Screw terminal block (M3.5) (*8)</td></tr>
<tr><td>Transistor (2)</td><td>24 VDC 40 mA or less (*5)</td><td>Screwless terminal block</td></tr>
<tr><td rowspan="2">(OFF) (*4)</td><td>Non-voltage Relay contact (2)</td><td>Applied load
MAX: 24 VDC, 5 W
MIN: 5 VDC, 2 mW
* AC loads cannot be connected.</td><td>Screw terminal block (M3.5) (*8)</td></tr>
<tr><td>Transistor (2)</td><td>24 VDC 40 mA or less (*5)</td><td>Screwless terminal block</td></tr>
<tr><td rowspan="2">Input</td><td>ON/OFF
Error/Normal</td><td>Non-voltage a contact (2 each)</td><td>24 VDC 1 mA or less (*6)</td><td>Screwless terminal block</td></tr>
<tr><td rowspan="4">Expansion</td><td rowspan="2">Output</td><td>ON/OFF, (ON) (*4)
(OFF) (*4)</td><td>Transistor (4 each)</td><td>24 VDC 40 mA or less (*5)</td><td>9 pin connector</td></tr>
<tr><td rowspan="2">Input</td><td>ON/OFF
Error/Normal</td><td>24 VDC input (4 each)</td><td>24 VDC 1 mA or less (*7)</td><td>9 pin connector</td></tr>
<tr><td colspan="3">Output Pulse Width</td><td>1s ± 30 ms</td><td colspan="2">1s ±30 ms</td></tr>
<tr><td>Interlock Function</td><td colspan="6">Interlock M-NET devices and output contacts according to status of input contacts. (*8)</td></tr>
<tr><td rowspan="3">Environment Conditions</td><td colspan="2" rowspan="2">Temperature</td><td>Operating temperature range</td><td colspan="2">0 to 40°C[32°F to 104°F]</td></tr>
<tr><td>Storage temperature range</td><td colspan="2">-20 to 60°C[-4°F to 140°F]</td></tr>
<tr><td colspan="2">Humidity</td><td colspan="3">30 to 90%RH (no condensation)</td></tr>
<tr><td>Dimensions</td><td colspan="6">200 (W) × 120 (H) × 45 (D) mm / 7 7/8 (W) × 4 3/4 (H) × 1 25/32 (D) in</td></tr>
<tr><td>Weight</td><td colspan="6">0.6 kg / 1 3/8 lbs</td></tr>
<tr><td>Time Backup During Power Failure</td><td colspan="6">In the event of power failure or shut-off, the internal capacitor will continue to track time for approximately one week. (The internal capacitor takes about 24 hours to fully charge; a replacement battery is not necessary.)</td></tr>
<tr><td>Installation Environment</td><td colspan="6">Inside the metal control board (indoors)
* Use this product in a hotel, a business office environment or similar environment.</td></tr>
</table>

*1: For details, refer to "1-(2). Parts Purchased Separately".
*2: Supply electric power from a power unit for the transmission line or an outdoor unit.
Furthermore, the power consumption factor of the M-NET circuitry of this device is "1/4" (equivalent to one ME Remote Controller).
*3: Non-voltage Relay contact or transistor is available for output. Only one can be used at a time.
*4: ( ) is in the case of a pulse.
*5: The output is open collector type. Power must be supplied from an external power source to the output circuit of this device.
*6: Power is supplied from this device to the external contacts.
*7: Power must be supplied from an external power source.
*8: M3 and M3.5 are sizes of the screw on the terminal block (ISO metric screw thread).
The number indicates the screw diameter (mm).



(a) ON/OFF, (ON) output
(b) (OFF) output
(c) ON/OFF input
(d) Error/Normal input
Standard: Terminal block (for 2 units)
Expansion: Connectors (for 4 units)
Total: 6 units

* This figure omits the power supply line and only shows the transmission line.

<Restrictions>
Maximum of 50 units (50 channels) per AT-50A
However, the number of units that can be connected to a AT-50A is up to 50 including the number of contacts used on this device, an indoor unit, LOSSNAY unit, etc.
Up to 6 contacts can be connected to the DIDO controller (1 M-NET address). One contact connected to this device is calculated as the equivalent of one indoor unit connected to AT-50A.
For example, 5 contacts connected to the DIDO controller are calculated as the equivalent of 5 indoor units connected to AT-50A.

NOTE

- For the shield ground of the M-NET centralized control line, use single-point grounding at the power unit for the transmission line.
  However, when supplying electric power to the M-NET centralized control line from the R410A series outdoor unit*1 without using a power supply unit for the transmission line, use single-point grounding at the TB7 of that outdoor unit. *1 : Except PUMY model.
  Furthermore, when connecting this device to the M-NET indoor control line, use grounding at the TB3 for each outdoor unit system.
- If the M-NET transmission line of this device is connected to the M-NET indoor control line and the outdoor unit is down because, for example, the power supply is interrupted for servicing or there is a failure, the DIDO controller cannot be controlled from the system controller.
- Controlling the ON/OFF remote controller is only possible with channel 1 of a standard terminal block.

(2). Parts Purchased Separately

Prepare the following parts to install this device.

Required Part	Specification
Unit fixing screws	M4 screw × 4 (*M4: ISO metric screw thread)
Power supply for this device	Commercially available power source: 24 VDC±10% 0.2 A (Minimum loading), SELV circuit, power line with grounding terminal Ripple noise: Lower than 200 mVp-p Compatible specification Authorized or CE marked products Subject to regulations: - IEC60950 (or EN60950) - CISPR22/24 (or EN55022/24) - IEC61000-3-2/3-3 (or EN61000-3-2/3-3) When using transistor output (including extension output) for the 24 VDC output of this device, increase the capacity to match the number used. • 1 set used: 0.3 ADC (Minimum) • 2 sets used: 0.4 ADC (Minimum) • 3 sets used: 0.5 ADC (Minimum) • 4 sets used: 0.6 ADC (Minimum) • 5 sets used: 0.7 ADC (Minimum) • 6 sets used: 0.8 ADC (Minimum) * The increase of the power supply capacity is 0.1 ADC for every set.
Power line	Use a sheathed vinyl cord or cable. At least 0.75 mm^2 (AWG18)
M-NET transmission line	Type of the cable: Sheathed vinyl cords or cable which comply with the following specifications or equivalent. • CPEV ø1.2 mm to ø1.6 mm • CVVS 1.25 mm^2 to 2 mm^2 (AWG 16 to 14) * CPEV: PE insulated PVC jacketed shielded communication cable * CVVS: PVC insulated PVC jacketed shielded control cable PE: Polyethylene PVC: Polyvinyl choloride Power needs to be supplied to the M-NET circuitry of this device. Use an outdoor unit or a separately purchased power supply unit for the transmission line.
Signal lines	Use electric wire of an appropriate size for the terminal block of this device. Electric wire size ···· (1) Solid wire: ø0.65 mm (AWG21) - ø1.2 mm (AWG16) (2) Stranded wire: 0.75 mm^2 (AWG18) - 1.25 mm^2 (AWG16) Single strand: At least ø0.18 mm To use an expansion input/output, use a separa tely purchased external input/output adapter.

[Parts to be Purchased Separately]

Name	Model	Application	Remark
Power supply unit	PAC-SC51KUA	Power supply to the M-NET transmission line	This is not required when power is to be supplied from an outdoor unit.
External I/O adapter	PAC-YG10HA	Connection adapter for using an expansion input/output	This is required when an expansion input/output is used.

[Commercially available parts]

Name	Application	Remark
External 24 VDC power source	Supplies power when to use the DIDO controller or transistor output.	Refer to "Power supply for this device" in "Required Part" above for the power supply capacity.
Relay device	Requires commercially available relay device depending on the electric specifications with an external device.	

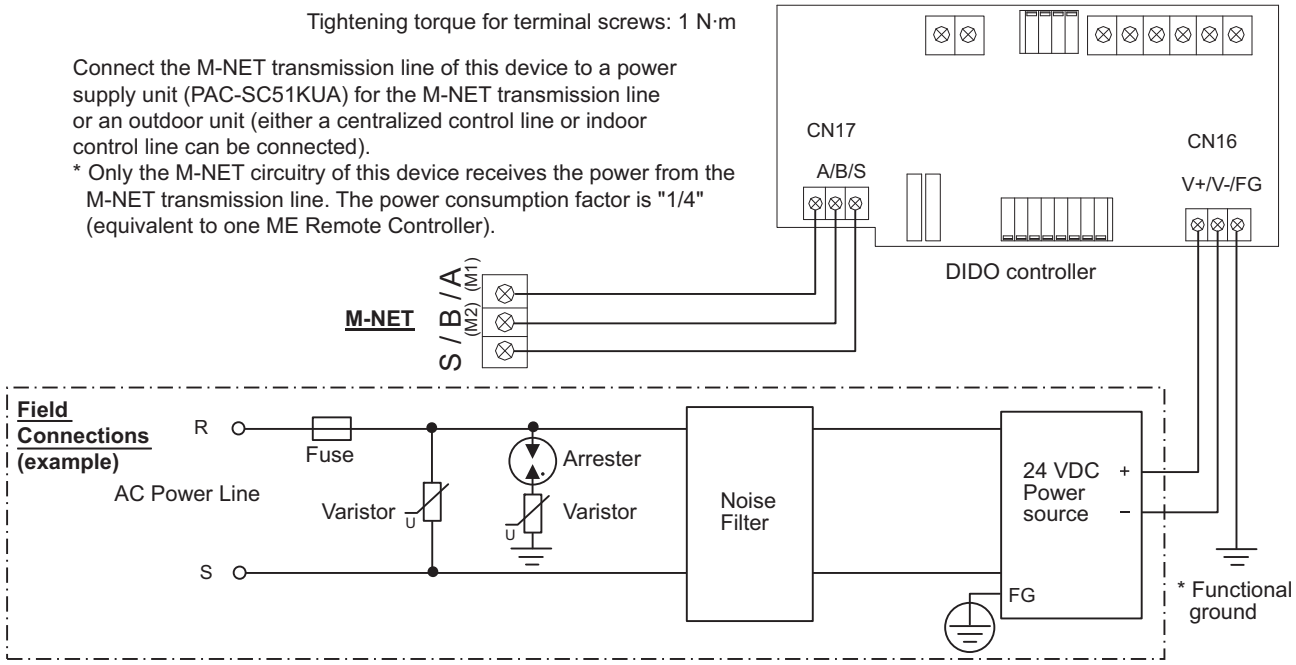
2. Wiring Instructions

(1). Connecting the Power and M-NET Transmission Lines

Tightening torque for terminal screws: 1 N·m

Connect the M-NET transmission line of this device to a power supply unit (PAC-SC51KUA) for the M-NET transmission line or an outdoor unit (either a centralized control line or indoor control line can be connected).

* Only the M-NET circuitry of this device receives the power from the M-NET transmission line. The power consumption factor is "1/4" (equivalent to one ME Remote Controller).



⚠CAUTION

- Use a power line and M-NET transmission line that satisfy the specifications described in "1-(2). Parts Purchased Separately".
- Attach a circuit comprising the following components to the supply primary side of the 24 VDC power supply.
  (1) Varistor, (2) Arrester, (3) Noise filter, (4) Fuse
- It is important to pay attention to the polarity when connecting to the 24 VDC power supply terminal block. Connecting the positive and negative in the reverse order will cause a failure.
- Fix the power line and M-NET transmission line in place on the outside to ensure that the terminal block is not affected by any external force.
  Not securely connecting and fixing the wires in place may cause heat generation and fire.
- Make sure that the copper wiring is not short-circuiting the plates (cover, lower case) or neighboring wires. Cover the shielded line of the M-NET transmission line with materials such as vinyl tape and prevent short-circuiting with the plates.

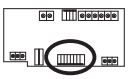
(2). Connecting the Signal Lines

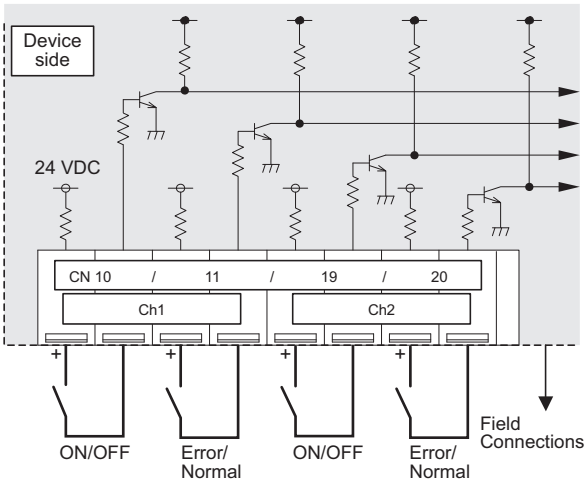
- Separately procure the relay, power supply for the relay, terminal block, and cable locally.
- The maximum wire length is 100 m (328 ft). However, since the use of long wires makes the device susceptible to noise, using wires shorter than 10 m (32.8 ft) is recommended.
- Connect another relay within 10 m (32.8 ft) from DIDO controller to extend the input line.

1) Standard Terminals (Channels 1 and 2)

(1-1) Input

(a) Non-voltage a-contact Inputs





Contacts closed :
Operating (ON); detected an error
Contacts closed :
Operating (ON); detected an error
*Error/normal detection becomes inverted from contact open/closed logic for a b-contact setting.

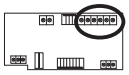
NOTE	• Connect the operate/stop (ON/OFF) inputs so that closing the contact operates (ON) the device and opening the contact stops (OFF) the device. • The error/normal inputs of channels 1 and 2 can be switched between a-contact and b-contact.

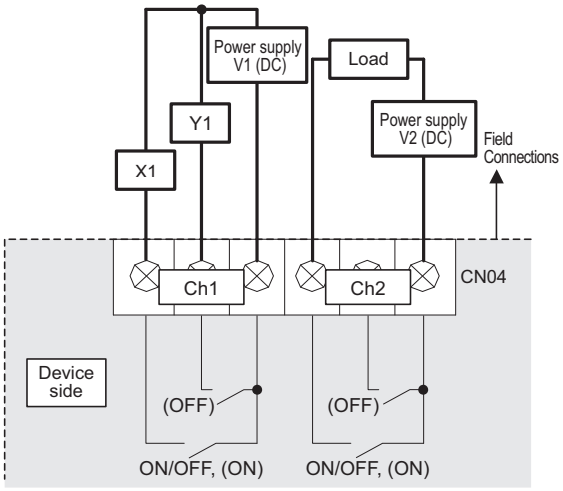
⚠CAUTION	• The polarity of the input terminals is important, so be sure to match the polarity when using contacts that have polarity. • Select a contact with a minimum applicable load of 1 mADC or less. • Supply 24 VDC 1 mA from the positive terminal to the external contacts. • Do not install alongside or in contact with other wires. • Strip 12 ±1 mm (15/32 ± 1/32 in) of the wire coating and insert firmly into the terminal. • Make sure that the copper wiring is not short-circuiting the plates (cover, lower case) or neighboring wires. • Perform wiring so that the terminal block is not strained. If strained, use a wire guide or junction terminal to alleviate the stress on the terminal block.

(1-2) Output

Non-voltage Relay contact or transistor is available for output. Only one can be used at a time.

(a) Non-voltage Relay Contact Outputs





Operate (ON) output :
Contacts closed
Stop (OFF) output :
Contacts open
*Upon pulse output, the (ON), (OFF) contacts close according to the output content. ((ON) and (OFF) refer to the junctions in the diagram.)

( ) is in the case of a pulse.

Tightening torque for terminal screws: 1 N·m

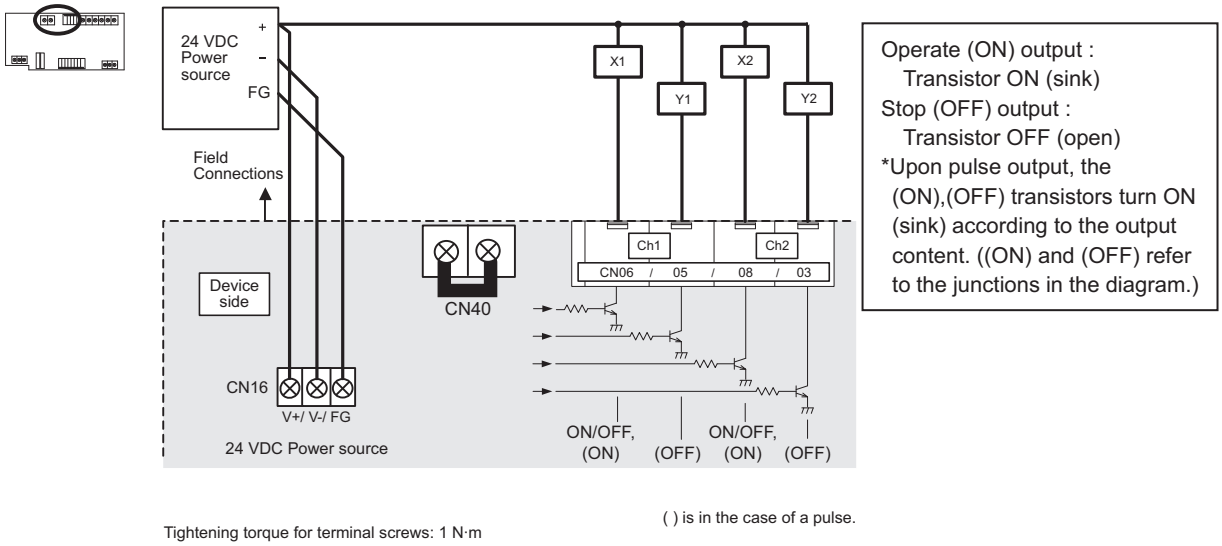
⚠CAUTION

- To use X1 and Y1 relay, obtain one that satisfies the following specifications.
  Operating coil
  [Applied load]
  MAX: 24 VDC, 5 W (Built-in diode)
  MIN: 5 VDC, 2 mW (Built-in diode)
  *1 AC loads cannot be connected.
  *2 Provide a power supply (V1, V2) that matches the load and relay to be used.
- To drive a direct load, use ones within the following.
  [Applied load]
  MAX: 24 VDC, 5 W
  MIN: 5 VDC, 2 mW

* AC loads cannot be connected.

- Make sure that the copper wiring is not short-circuiting the plates (cover, lower case) or neighboring wires.
- Perform wiring so that the terminal block is not strained.
  If strained, use a wire guide or junction terminal to alleviate the stress on the terminal block.
- Do not connect the wires directly from the top of the control panel to the terminal block.
  Moisture may enter this device along the wiring and cause electric shock or fire.

(b) Transistor Outputs (Open Collector)



( ) is in the case of a pulse.

Tightening torque for terminal screws: 1 N·m

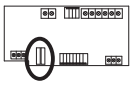
NOTE	The junction terminal block CN40 (for 24 VDC) is provided. Use them as relay terminals if necessary.

⚠CAUTION	• When X1, X2, Y1 and Y2 relays are used, select ones that satisfy the following specifications. Operating coil Rated voltage: 24 VDC (Built-in diode) Power consumption: 0.9 W or less (*1) Be sure to use the ones with the voltages rated above. Exceeding the rated voltage may affect the ON/OFF of other outputs. (*2) When using a separate power supply for this device, connect GND of the power supply to V- of CN16 of the terminal block of this device. (*3) Use a relay with a withstanding voltage of at least 2000 VAC between the coil and contact. Otherwise, there is the likelihood of an electric shock or fire. • Strip 12 ±1 mm (15/32 ±1/32 in) of the wire coating and insert firmly into the terminal. • Make sure that the copper wiring is not short-circuiting the plates (cover, lower case) or neighboring wires. • Perform wiring so that the terminal block is not strained. If strained, use a wire guide or junction terminal to alleviate the stress on the terminal block. • Do not connect the wires directly from the top of the control panel to the terminal block. Moisture may enter this device along the wiring and cause electric shock or fire.

2) Expansion Connectors (Channels 3 to 6)

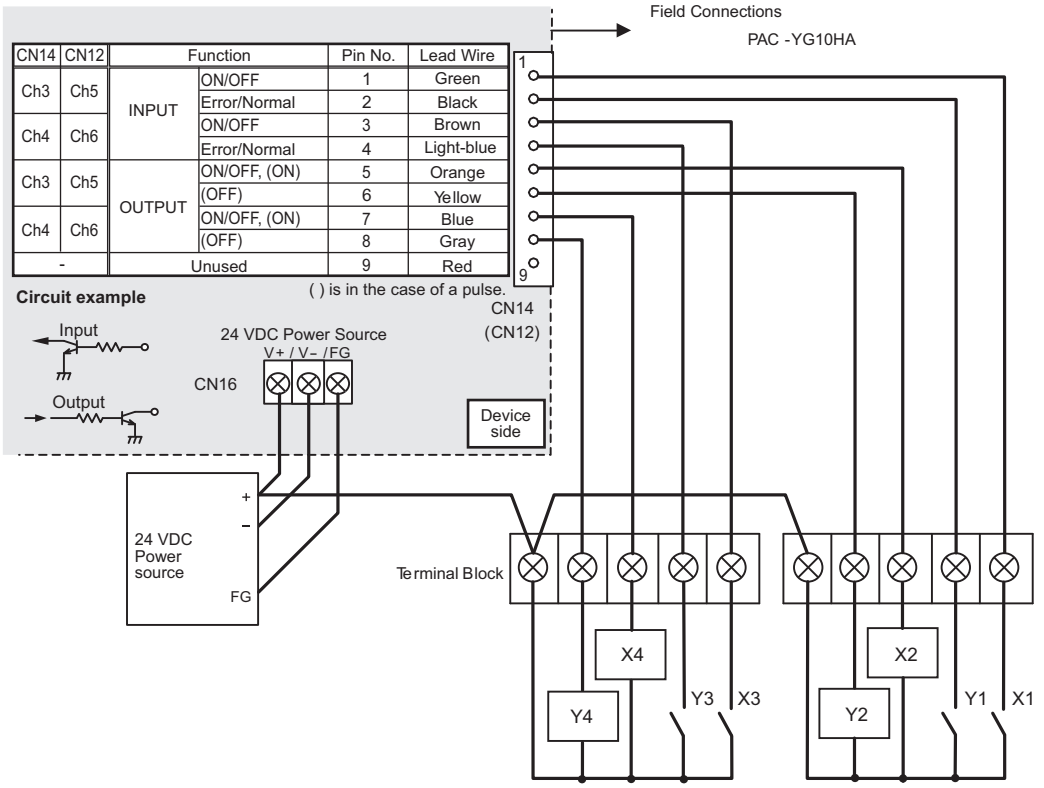
(2-1) Expansion Inputs/Outputs

Purchase an optional external input/output adapter (model: PAC-YG10HA) when using expansion inputs/outputs.
PAC-YG66DCA has two expansion connectors, and up to two external input/output devices can be connected to each connector.
An optional external input/output adapter is required for each connector used.



CN14	CN12	Function		Pin No.	Lead Wire
Ch3	Ch5	INPUT	ON/OFF	1	Green
			Error/Normal	2	Black
Ch4	Ch6		ON/OFF	3	Brown
			Error/Normal	4	Light-blue
Ch3	Ch5	OUTPUT	ON/OFF, (ON)	5	Orange
			(OFF)	6	Yellow
Ch4	Ch6		ON/OFF, (ON)	7	Blue
			(OFF)	8	Gray
-		Unused		9	Red

( ) is in the case of a pulse.



[Input]
Contacts closed (24 VDC applied): Operating (ON); detected an error
Contacts open : Stopped (OFF); detected as normal
* Error/normal detection becomes inverted from contact open/closed logic for a b-contact setting.
[Output]
Operate (ON) output : Transistor ON (sink)
Stop (OFF) output : Transistor OFF(open)
* Upon pulse output, the (ON), (OFF) transistors turn ON (sink) according to the output content. ((ON) and (OFF) refer to the junctions in the diagram.)

⚠CAUTION

- When using X1, X2, X3, X4, Y1, Y2, Y3 and Y4 relays, select ones that satisfy the following specifications.
  Operating coil Rated voltage: 24 VDC (Built-in diode)
  Power consumption: 0.9 W or less
  (*1) Be sure to use the ones with the voltages rated above. Exceeding the rated voltage may affect the ON/OFF of other outputs.
  (*2) When using a separate power supply for this device, connect GND of the power supply to V– of CN16 of the terminal block of this device.
  (*3) Use a relay with a withstanding voltage of at least 2000 VAC between the coil and contact. Otherwise, there is the likelihood of an electric shock or fire.
- Select a contact with a minimum applicable load of 1 mADC or less for the input contact.
- Do not install alongside or in contact with other wires.

4-1. S, Y series

CITY MULTI system can be monitored or controlled with signal to/from the outside as every control board of Indoor unit or Outdoor unit has input/output signal connectors. Independent control to the individual Indoor or Outdoor can be carried out by using these connectors. Yet, for large-scale control, MELANS would be much easier. When using input/output connectors, a dedicated adapter (optional part) and a relay circuit needed to be prepared by the site.
Following are some typical example. Refer to 4-2-2. Input S series for the switch settings and available functions for the S series.

Table 4-1. Control can be achieved by using Outdoor input/output connectors.

Function	Usage	Using connector *5	Signal	Option
		PUHY/PUMY		
Demand	Prohibiting cooling/heating operation (thermo OFF) by an external input to the outdoor unit. * It can be used as the demand control for each refrigerant system.	CN3D *1	Input (level-signal)	Adapter for external input (PAC-SC36NA-E)
Low noise mode *2, *3	Performs a low noise operation of the outdoor unit by an external input to the outdoor unit. * It can be used as the low noise operation device for each refrigerant system.			
Snow sensor signal input	Forces the outdoor unit to perform a fan operation by receiving signals from the snow sensor. *4	CN3S		
Auto-changeover	Cooling/heating operation can be changed by an external input to the outdoor unit.	CN3N		
Operation status of the compressor	How to extract signals from the outdoor unit. * It can be used as an operation status display device.	CN51	Output (level-signal)	Adapter for external output (PAC-SC37SA-E)
Error status	* It can be used for an interlock operation with external devices.			

*1 For details, refer to 1) through 4) shown below.
*2 Low noise mode is valid when Dip SW4-4 (*10) on the outdoor unit is set to OFF. When DIP SW4-4 (*10) is set to ON, 4 levels of on-DEMAND are possible, using different configurations of low noise mode input and DEMAND input settings.
When 2 or more outdoor units exist in one refrigerant circuit system, 8 levels of on-DEMAND are possible. When 3 outdoor units exist in one refrigerant circuit system, 12 levels of on-DEMAND are possible.
*3 Low noise mode can be switched from ability main to low noise main with Dip SW5-5 on the outdoor unit (except for S series). Dip SW5-5 OFF: ability main (ability main mode : The sound pressure level is reduced by limiting the maximum fan frequency under the following condition. Cooling mode : outdoor temp. (TH6)< 30°C Heating mode : outdoor temp. (TH6) > 3°C), ON: low noise main.
*4 When multiple outdoor units exist in one refrigerant circuit system, settings on every outdoor unit (signal input) are required.
*5 For detailed drawing, refer to "4-2. Outdoor unit input/output connector".

1) Table 4-1-1 SW4-4 (*10): OFF (Compressor ON/OFF, Low noise mode)

CN3D 1-3P	2-level of on-Demand *6
Open	100%(No Demand)
Short-circuit	0%

CN3D 1-2P	Low noise mode *7
Open	OFF
Short-circuit	ON

*6 When SW4-4 (*10) on the outdoor unit in one refrigerant circuit system is set to ON (4 levels or 8 levels or 12 levels of on- DEMAND), thisfunction cannot be used.
*7 This function and the 4 levels or 8 levels on-DEMAND function can be used together. Input the order to CN3D 1-2P on the outdoor unit whose SW4-4 (*10) is set to OFF.

2) When SW4-4 (*10) on one outdoor unit in one refrigerant circuit system is set to ON (4 levels of on-DEMAND) (*8)

	CN3D 1-2P	
CN3D 1-3P	Open	Short-circuit
Open	100% (No DEMAND)	75%
Short-circuit	0%	50%

Note the following steps to be taken when using STEP DEMAND.
Example: When switching from 100% to 50%

Steps in DEMAND level setting

<WRONG> 100% → 0% → 50%
<CORRECT> 100% → 75% → 50%

If the demand settings are switched in the wrong order listed as the wrong example above, the unit may go into thermo OFF mode.
The percentage of the DEMAND listed in the table above is an approximate value based on the compressor volume and does not necessarily correspond with the capacity.
This function and the Low noise mode function cannot be used together.

3) When SW4-4 on the two outdoor units in one refrigerant circuit system is set to ON (8 levels of on-DEMAND) (*8,*9)

8 levels of on-DEMAND		No.2 CN3D				
		1-2P	Open		Short-circuit	
No.1 CN3D	1-2P	1-3P	Open	Short-circuit	Open	Short-circuit
	Open	Open	100% (No DEMAND)	50%	88%	75%
		Short-circuit	50%	0%	38%	25%
	Short-circuit	Open	88%	38%	75%	63%
		Short-circuit	75%	25%	63%	50%

4) When SW4-4 on the all outdoor units in one refrigerant circuit system is set to ON (12 levels of on-DEMAND) (*9)

12 levels of on-DEMAND	No.2 CN3D	1-2P	Open							
		1-3P	Open				Short-circuit			
	No.3 CN3D	1-2P	Open		Short-circuit		Open		Short-circuit	
No.1 CN3D	1-2P	1-3P	Open	Short-circuit	Open	Short-circuit	Open	Short-circuit	Open	Short-circuit
	Open	Open	100%	67%	92%	84%	67%	34%	59%	50%
		Short-circuit	67%	34%	59%	50%	34%	0%	25%	17%
	Short-circuit	Open	92%	59%	84%	75%	59%	25%	50%	42%
		Short-circuit	84%	50%	75%	67%	50%	17%	42%	34%

12 levels of on-DEMAND	No.2 CN3D	1-2P	Short-circuit							
		1-3P	Open				Short-circuit			
	No.3 CN3D	1-2P	Open		Short-circuit		Open		Short-circuit	
No.1 CN3D	1-2P	1-3P	Open	Short-circuit	Open	Short-circuit	Open	Short-circuit	Open	Short-circuit
	Open	Open	92%	59%	84%	75%	84%	50%	75%	67%
		Short-circuit	59%	25%	50%	42%	50%	17%	42%	34%
	Short-circuit	Open	84%	50%	75%	67%	75%	42%	67%	59%
		Short-circuit	75%	42%	67%	59%	67%	34%	59%	50%

*8 Input the order to CN3D on the outdoor unit whose SW4-4 (*10) is set to ON.
*9 CN3D of No. 1, 2, 3 can be selected arbitrary with the outdoor unit whose SW4-4 is set to ON.
*10 Dip switch numbers vary depending on the model. PUHY: SW4-4, PUMY(P100-140): SW8-1, PUMY(P200-250): SW2-6

Table 4-2. Control can be achieved by using Indoor input/output connectors.

Function	Usage	Using connector	Signal
Remote/Local switching *1 ON/OFF *2*3	Indoor group can be controlled ON/OFF by an ON/OFF switching or contact input to the connector of the head Indoor in an Indoor group. It can be interlocked with timer, door, window, or other equipment to "Force stopping"	CN32	Input (level-signal)
ON/OFF *2*3	Indoor group can be controlled ON/OFF by an external pulse signal input to the connector of the head Indoor in an Indoor group.	CN51	Input (pulse-signal)
Demand	Indoor group can be controlled ON/OFF by an ON/OFF switching or contact input to the connector of every Indoor in an Indoor group.	CN52	Input (pulse-signal)
Monitoring ON/OFF state	Signal output from a head Indoor unit, presenting its Indoor group.	CN51	Output
Monitoring heating state	It can be used for monitoring or interlock with other equipment purpose and so on.	CN52	
Monitoring cooling/drying state		CN52	
Monitoring Error state	Signal output from every Indoor unit, for monitoring Error or Thermo-off (fan) state.	CN51	Output
Monitoring Thermo-OFF(fan) state	It can be used for monitoring or interlock with other equipment purpose and so on.	CN52	

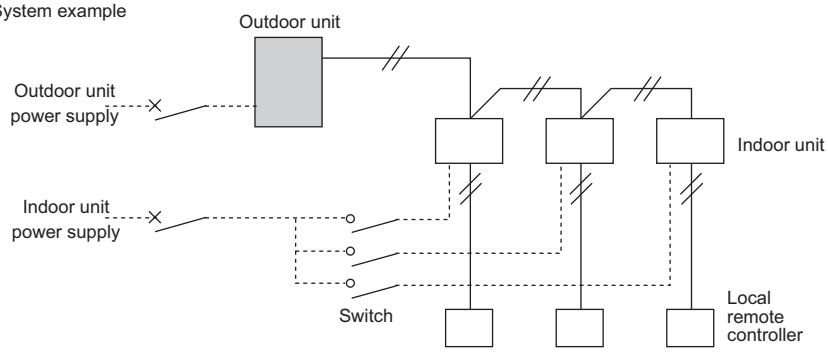
*1. When switching to Remote, control at Local remote controller will NOT be effective, but the "CENTRALLY CONTROLLED" is displayed.
*2. MA or ME remote controller is needed for this function.
*3. If using ON/OFF input function, Automatic-address-start-up can not be performed to start-up the system at commissioning.

Table 4-3. ON/OFF control to each Indoor unit (group) by using Dip Switch 9 and 10 (SW1-9, SW1-10) of the Indoor unit.

Function	Operation on Indoor units	Setting Dip Switch *1	
		1-9	1-10
Auto ON	All indoor units will turn ON and automatically resume to its previous mode after 5 minutes from power recovery.	OFF	ON
Auto recovery	Indoor unit recovers to its previous state (ON/OFF, mode) after 5 minutes from power recovery.	ON	OFF
All OFF	Forced stopping regardless of Indoor units' state.	OFF	OFF

*1. The Dip Switch setting should be carried out on every Indoor unit in the group.
*2. Outdoor unit's power supply should NOT be cut. Otherwise, power supply to case heater of the compressor would be cut too, which may cause damage to the compressor.
*3. Above method can not be applied to the power ON/OFF of the drain pump and humidifier equipment.

■ System example



Restart of the CITY MULTI needs to be careful. When no power supply to the outdoor unit, no power supply to the compressor case heater too. The compressor needed to be warmed up before running. When using above functions, power supply to the outdoor unit should be ensured.

Table 4-4. How to use Remote/Local switching connector CN32

State	Local remote controller display and operation	CN32-SW-1 for Local/Remote control switching	CN32-SW-2 for Remote "ON/OFF" operation
Local remote controller control	Operation is permitted	OFF	OFF
Remote STOP	"CENTRALLY CONTROLLED" flashing, "ON/OFF" at local remote controller is not possible.	ON	OFF
Remote START	"CENTRALLY CONTROLLED" flashing, "ON/OFF" at local remote controller is not possible.	ON	ON

* For details refer to CN32 in section “4-3. Indoor unit “-E(C)” type input/output connector”.

Table 4-5. Limitations to combining system controls

	Description		Control combining distant/local	Pulse ON/OFF	Power ON/OFF	Automatic recover
1	Control combining distant/local	CN32	-	×*1	×*1	×*1
2	Pulse ON/OFF	CN51		-	O	O
3	HA ON/OFF(JEMA)	CN51			O	O
4	Power ON/OFF	-			-	×
5	Automatic recover	-				-

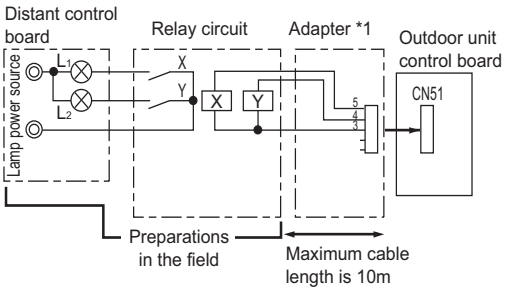
*1. Pulse ON/OFF, power ON/OFF and automatic recover can only be used when the remote/local setting CN32 is set to local. Therefore, always avoid this function when combining control.

4-2. Outdoor unit input/output connector

⚠ Caution:	1.Wiring should be covered by insulation tube with supplementary insulation. 2.Use relays or switches with IEC or equivalent standard. 3.The electric strength between accessible parts and control circuit should have 2750V or more.

4-2-1. Output

• State (CN51)



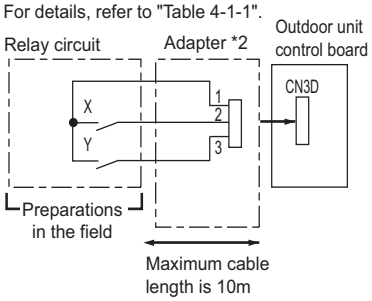
L1 : Outdoor unit error display lamp
L2 : Compressor operation lamp (compressor running state)
X, Y : Relay (coil =<0.9W : 12VDC)

*1. Optional part : PAC-SC37SA-E or field supply.

4-2-2. Input

Y series

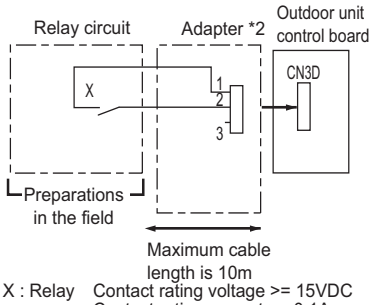
(1) Step demand and Low noise mode (CN3D)



X : Low noise mode or demand
Y : Demand
X,Y : Relay Contact rating voltage >= 15VDC
Contact rating current >= 0.1A
Minimum appicable load =< 1mA at DC

*2. Optional part : PAC-SC36NA-E or field supply.

(2) Low noise mode (CN3D + DipSW4-4 OFF)



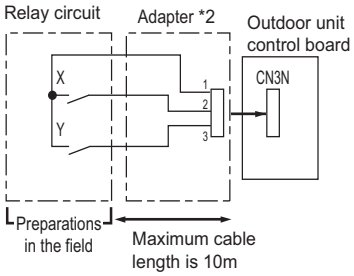
X : Relay Contact rating voltage >= 15VDC
Contact rating current >= 0.1A
Minimum applicable load =< 1mA at DC

*2. Optional part : PAC-SC36NA-E or field supply.

Low noise mode : The sound pressure level is reduced by controlling the maximum fan frequency and compressor frequency.

-Note-
The sound pressure level can not be reduced, when neither the fan frequency nor the compressor frequency are maximum.

(3) Autochangeover (CN3N)

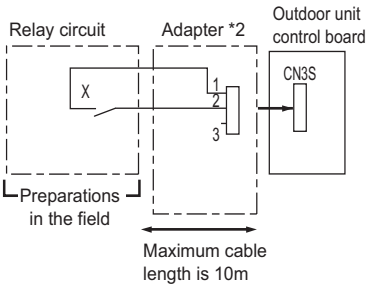


X : Cooling / Heating
Y : Validity / Invalidity of X
X,Y : Relay Contact rating voltage >= 15VDC
Contact rating current >= 0.1A
Minimum applicable load =< 1mA at DC

*2. Optional part : PAC-SC36NA-E or field supply.

		X	
		OFF	ON
Y	OFF	Normal	
	ON	Cooling	Heating

(4) Snow sensor (CN3S)



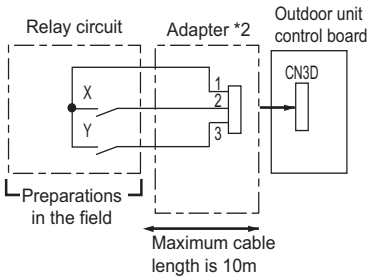
X : Relay Contact rating voltage >= 15VDC
Contact rating current >= 0.1A
Minimum applicable load =< 1mA at DC

*2. Optional part : PAC-SC36NA-E or field supply.

Snow sensor : The outdoor fan runs when X is closed in stop mode or thermostat mode.

S series

(1) Step demand and Low noise mode (CN3D)



X,Y : Relay Contact rating voltage >= 15VDC
Contact rating current >= 0.1A
Minimum appicable load =< 1mA at DC

*2. Optional part : PAC-SC36NA-E or field supply.

DipSW8-1 (P100-140) or SW2-6 (P200-250) ON (Step demand only)

		X	
		OFF	ON
Y	OFF	100%	75%
	ON	0%	50%

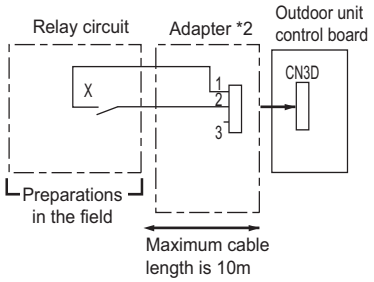
*They are rough values.

DipSW8-1 (P100-140) or SW2-6 (P200-250) OFF
(Compressor ON/OFF and Low noise mode)

Y	Compressor ON/OFF
OPEN	ON
SHORT	OFF

X	Low noise mode
OPEN	OFF
SHORT	ON

(2) Low noise mode
(CN3D + DipSW8-1 (P100-140) or SW2-6 (P200-250) OFF)



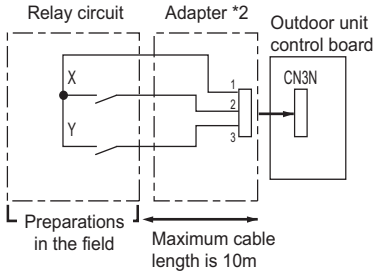
X : Relay Contact rating voltage >= 15VDC
Contact rating current >= 0.1A
Minimum applicable load =< 1mA at DC

*2. Optional part : PAC-SC36NA-E or field supply.

Low noise mode : The sound pressure level is reduced by controlling the maximum fan frequency and compressor frequency.

-Note-
The sound pressure level can not be reduced, when neither the fan frequency nor the compressor frequency are maximum.

(3) Autochangeover (CN3N)



SW1 : Cooling / Heating
SW2 : Validity / Invalidity of X
X, Y : Relay Contact rating voltage >= 15VDC
Contact rating current >= 0.1A
Minimum applicable load =< 1mA at DC

*2. Optional part : PAC-SC36NA-E or field supply.

		X	
		OFF	ON
Y	OFF	Normal	
	ON	Cooling	Heating

4-3. Indoor unit "-E (C)" type input/output connector

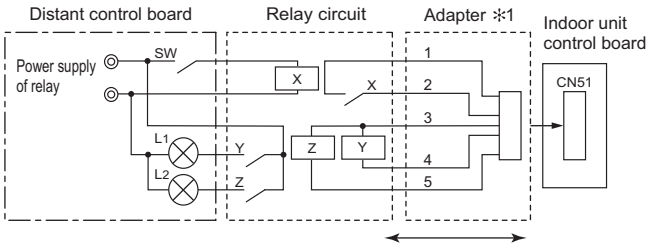
⚠ Caution:	1.Wiring should be covered by insulation tube with supplementary insulation. 2.Use relays or switches with IEC or equivalent standard. 3.The electric strength between accessible parts and control circuit should have 2750V or more.

● ON/OFF (Pulse) input specification

Item	Description
Input signal	Pulse sign (a connect)
Standard of pulse	

● Input

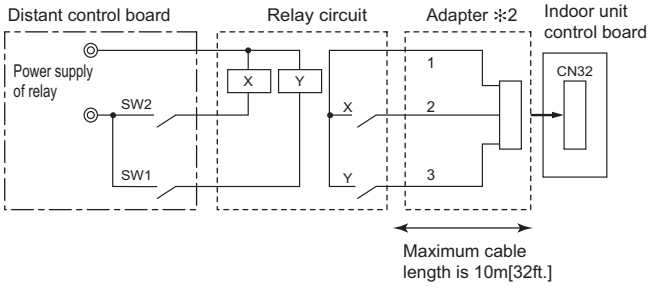
CN51



SW : Distant ON/OFF switch
L1 : Status lamp
L2 : Error lamp
X : Relay (a point of contact, fixed DC1mA)
Y, Z : Relay Contact rating voltage >= 15VDC
Contact rating current >= 0.1A
Minimum applicable load =< 1mA at DC

※ Every time the SW is pushed (the pulse is inputted), it reacts against ON/OFF.

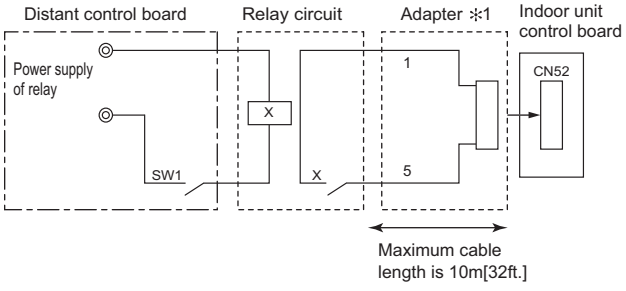
CN32



SW1 : Distant/Local switching
SW2 : ON/OFF switch
X, Y : Relay Contact rating voltage >= 15VDC
Contact rating current >= 0.1A
Minimum applicable load =< 1mA at DC

※ SW2 is available when SW1 is ON.

CN52

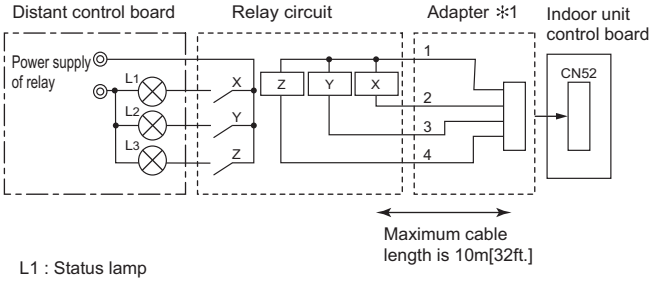


SW1 : Demand switch
X : Relay (coil <=0.9W,12VDC)

SW1	Indoor unit
ON	Forced thermo-OFF
OFF	Normal running

● Output

CN52



L1 : Status lamp
Fan motor output (SW1-5 OFF)
Thermostat ON (SW1-5 ON)
L2 : Cooling/Dry status lamp
L3 : Heating status lamp
X, Y, Z : Relay (Coil with fixed 12VDC, a power consumption of 0.9W or less)

※ 1. Optional part : PAC-SA88HA-E or field supply
※ 2. Optional part : PAC-SE55RA-E or field supply

CITY MULTI
4. SYSTEM DESIGN

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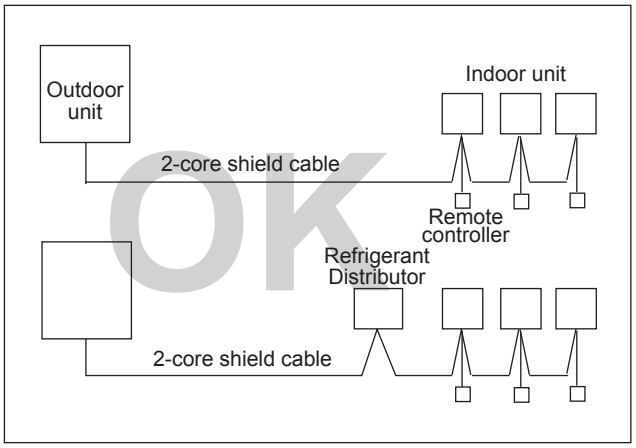
SYSTEM DESIGN Y SERIES..... 4 - 35

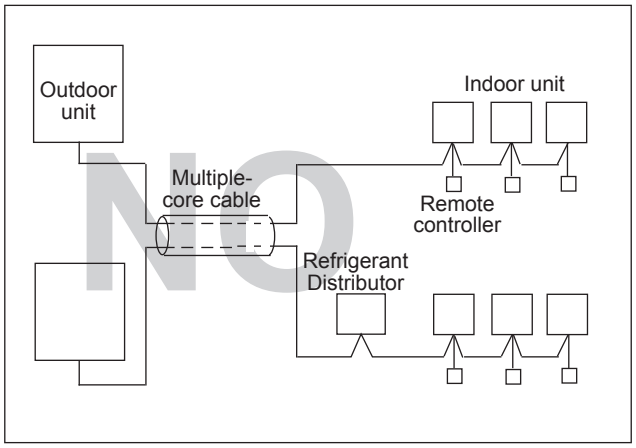
CITY MULTI
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1-1. General cautions

① Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations, and guidance of each electric power company.
② Wiring for control (hereinafter referred to as transmission cable) shall be (50mm[1-5/8in.] or more) apart from power source wiring so that it is not influenced by electric noise from power source wiring. (Do not insert transmission cable and power source wire in the same conduit.)
③ Be sure to provide designated grounding work to outdoor unit.
④ Give some allowance to wiring for electrical part box of indoor and outdoor units, because the box is sometimes removed at the time of service work.
⑤ Never connect 380~415V(220~240V) power source to terminal block of transmission cable. If connected,electrical parts will be damaged.
⑥ Use 2-core shield cable for transmission cable. If transmission cables of different systems are wired with the same multiple-core cable, the resultant poor transmitting and receiving will cause erroneous operations.
⑦ When extending the transmission cable, be sure to extend the shield wire.





1-2. Power supply for Indoor unit and Outdoor unit

1-2-1. Electrical characteristics of Indoor unit

Symbols: MCA : Max.Circuit Amps (=1.25xFLA) FLA : Full Load Amps
IFM :Indoor Fan Motor Output : Fan motor rated output

PMFY-P-VBM-EC	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PMFY-P20VBM-EC	220V / 50Hz	Max.: 242V Min.: 198V	0.25	0.028	0.20
PMFY-P25VBM-EC			0.26	0.028	0.21
PMFY-P32VBM-EC			0.26	0.028	0.21
PMFY-P40VBM-EC			0.33	0.028	0.26

PLFY-P-VBM-E-S	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PLFY-P32VBM-E-S	220V / 50Hz	Max.: 242V Min.: 198V	0.28	0.050	0.22
PLFY-P40VBM-E-S			0.36	0.050	0.29
PLFY-P50VBM-E-S			0.36	0.050	0.29
PLFY-P63VBM-E-S			0.45	0.050	0.36
PLFY-P80VBM-E-S			0.64	0.050	0.51
PLFY-P100VBM-E-S			1.25	0.120	1.00
PLFY-P125VBM-E-S			1.34	0.120	1.07

PEFY-P-VMS-E-S	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PEFY-P15VMS-E-S	220V / 50Hz	Max.: 242V Min.: 198V	0.46	0.096	0.37
PEFY-P20VMS-E-S			0.54	0.096	0.43
PEFY-P22VMS-E-S			0.65	0.096	0.52
PEFY-P25VMS-E-S			0.65	0.096	0.52
PEFY-P28VMS-E-S			0.65	0.096	0.52
PEFY-P32VMS-E-S			0.65	0.096	0.52
PEFY-P36VMS-E-S			0.68	0.096	0.54
PEFY-P40VMS-E-S			0.68	0.096	0.54
PEFY-P45VMS-E-S			1.05	0.096	0.84
PEFY-P50VMS-E-S			1.05	0.096	0.84
PEFY-P56VMS-E-S			1.25	0.096	1.00
PEFY-P63VMS-E-S			1.25	0.096	1.00

PEFY-P-VMM-E-S	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PEFY-P20VMM-E-S	220-240V / 50Hz	Max.: 264V Min.: 198V	0.69	0.120	0.55
PEFY-P25VMM-E-S			0.69	0.120	0.55
PEFY-P32VMM-E-S			0.69	0.120	0.55
PEFY-P40VMM-E-S			0.75	0.130	0.60
PEFY-P50VMM-E-S			0.80	0.140	0.64
PEFY-P63VMM-E-S			0.86	0.150	0.69
PEFY-P71VMM-E-S			1.26	0.220	1.01
PEFY-P80VMM-E-S			1.26	0.220	1.01
PEFY-P100VMM-E-S			2.06	0.360	1.65
PEFY-P125VMM-E-S			2.64	0.460	2.11

Symbols: MCA : Max.Circuit Amps (=1.25xFLA) FLA : Full Load Amps
IFM :Indoor Fan Motor Output : Fan motor rated output

PEFY-P-VMA-E-S	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PEFY-P20VMA-E-S	220V / 50Hz	Max.: 242V Min.: 198V	0.92	0.085	0.74
PEFY-P25VMA-E-S			0.92	0.085	0.74
PEFY-P32VMA-E-S			1.07	0.085	0.86
PEFY-P40VMA-E-S			1.32	0.085	1.06
PEFY-P50VMA-E-S			1.40	0.121	1.12
PEFY-P63VMA-E-S			2.08	0.121	1.67
PEFY-P71VMA-E-S			2.32	0.121	1.86
PEFY-P80VMA-E-S			2.36	0.121	1.89
PEFY-P100VMA-E-S			3.19	0.244	2.55
PEFY-P125VMA-E-S			3.27	0.244	2.62
PEFY-P140VMA-E-S			3.17	0.244	2.53

PKFY-P-VBM-EC	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PKFY-P15VBM-EC	220V / 50Hz	Max.: 242V Min.: 198V	0.25	0.017	0.20
PKFY-P20VBM-EC			0.25	0.017	0.20
PKFY-P25VBM-EC			0.25	0.017	0.20

PKFY-P-VHM-EC	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PKFY-P32VHM-EC	220V / 50Hz	Max.: 242V Min.: 198V	0.38	0.030	0.30
PKFY-P40VHM-EC			0.38	0.030	0.30
PKFY-P50VHM-EC			0.38	0.030	0.30

GUF-RDH3	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
GUF-50RDH3	220-240V / 50Hz 220V / 60Hz	Max.: 264V Min.: 198V	1.85 / 1.85	0.081x2	1.48 / 1.48

*GUF-RDH3 cannot be connected to PUMY models.

1-2-2. Electrical characteristics of Outdoor unit at cooling mode

Symbols: MCA : Max Circuit Amps (=1.25xTemperature correctionxRLA)
RLA : Rated Load Amps SC : Starting Current

PUMY-P-YHMC-C /VHMC-S/YKMC-C	Units			Power supply	Compressor		FAN	RLA (A)
	Hz	Volts	Voltage range	MCA(A)	Output (kW)	SC (A)	Output (kW)	
PUMY-P100YHMC-C	50	380	Max : 418V Min : 342V	13	1.9	7	0.06 x 2	5.81
PUMY-P125YHMC-C				13	2.4	7	0.06 x 2	6.87
PUMY-P140YHMC-C				13	2.9	7	0.06 x 2	8.51
PUMY-P100VHMC-S		220	Max : 242V Min : 198V	29.5	2.2	14	0.06 x 2	15.5
PUMY-P125VHMC-S				29.5	2.9	14	0.06 x 2	20.8
PUMY-P140VHMC-S				29.5	3.3	14	0.06 x 2	25.5
PUMY-P200YKMC-C		380	Max : 418V Min : 342V	19	4.7	7	0.15 x 2	13.7
PUMY-P250YKMC-C				19	5.5	7	0.15 x 2	16.9

1-3. Power cable specifications

Thickness of wire for main power supply, capacities of the switch and system impedance

	Model	Minimum wire thickness (mm^2)			Ground-fault interrupter *1	Local swtich (A)		Breaker for wiring (A) (Non-fuse breaker)	Max..Permissive System Impedance
		Main cable	Branch	Ground		Capacity	Fuse		
Outdoor unit	PUMY-P100YHMC-C	1.5	-	1.5	16A 30mA 0.1sec. or less	16	16	16	-
	PUMY-P125YHMC-C	1.5	-	1.5	16A 30mA 0.1sec. or less	16	16	16	-
	PUMY-P140YHMC-C	1.5	-	1.5	16A 30mA 0.1sec. or less	16	16	16	-
	PUMY-P100VHMC-S	6.0	-	6.0	32A 30mA 0.1sec. or less	32	32	32	-
	PUMY-P125VHMC-S	6.0	-	6.0	32A 30mA 0.1sec. or less	32	32	32	-
	PUMY-P140VHMC-S	6.0	-	6.0	32A 30mA 0.1sec. or less	32	32	32	-
	PUMY-P200YKMC-C	2.5	-	2.5	25A 30mA 0.1sec. or less	25	25	25	-
	PUMY-P250YKMC-C	2.5	-	2.5	25A 30mA 0.1sec. or less	25	25	25	-
Total operating current of the indoor unit	F0 = 16A or less *2	1.5	1.5	1.5	20A current sensitivity *3	16	16	20	-
	F0 = 25A or less *2	2.5	2.5	2.5	30A current sensitivity *3	25	25	30	-
	F0 = 32A or less *2	4.0	4.0	4.0	40A current sensitivity *3	32	32	40	-

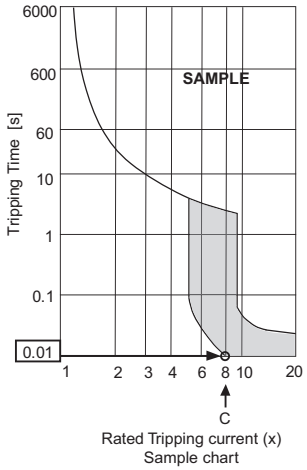
*1 The Ground-fault interrupter should support Inverter circuit.
The Ground-fault interrupter should combine using of local switch or wiring breaker.

*2 Please take the larger of F1 or F2 as the value for F0.
F1 = Total operating maximum curent of the indoor units × 1.2
F2 = {V1 × (Quantity of Type1)/C} + {V1 × (Quantity of Type2)/C} + {V1 × (Quantity of Others)/C}

Indoor unit		V1	V2
Type1	PLFY-VBM, PMFY-VBM, PEFY-VMS, PKFY-VHM	18.6	2.4
Type2	PEFY-VMA	38	1.6
Others	Other indoor unit	0	0

C : Multiple of tripping current at tripping time 0.01s
Please pick up "C" from the tripping characteristic of the breaker.

<Example of "F2" calculation>
*Condition PEFY-VMS × 4 + PEFY-VMA × 1, C = 8 (refer to right sample chart)
F2 = 18.6 × 4/8 + 38 × 1/8
= 14.05
→16 A breaker (Tripping current = 8 × 16 A at 0.01s)



*3 Current sensitivity is calculated using the following formula.
G1 = (V2 × Quantity of Type1) + (V2 × Quantity of Type2) + (V2 × Quantity of Others) + (V3 × Wire length [km])

G1	Current sensitivity
30 or less	30 mA 0.1sec or less
100 or less	100 mA 0.1sec or less

Wire thickness	V3
1.5 mm^2	48
2.5 mm^2	56
4.0 mm^2	66

1. Use dedicated power supplies for the outdoor unit and indoor unit. Ensure OC and OS are wired individually.
2. Bear in mind ambient conditions (ambient temperature,direct sunlight, rain water,etc.) when proceeding with the wiring and connections.
3. The wire size is the minimum value for metal conduit wiring. If the voltage drops, use a wire that is one rank thicker in diameter. Make sure the power-supply voltage does not drop more than 10%.
4. Specific wiring requirements should adhere to the wiring regulations of the region.
5. Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 245 IEC57). For example, use wiring such as YZW.
6. A switch with at least 3 mm contact separation in each pole shall be provided by the Air Conditioner installer.

⚠WARNING

- Be sure to use specified wires for connections and ensure no external force is imparted to terminal connections. If connections are not fixed firmly, heating or fire may result.
- Be sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.

⚠CAUTION

- Some installation sites may require attachment of an earth leakage breaker for the inverter. If no earth leakage breaker is installed, there is a danger of electric shock.
- Do not use anything other than a breaker and fuse with the correct capacity. Using a fuse or wire of too large capacity may cause malfunction or fire.

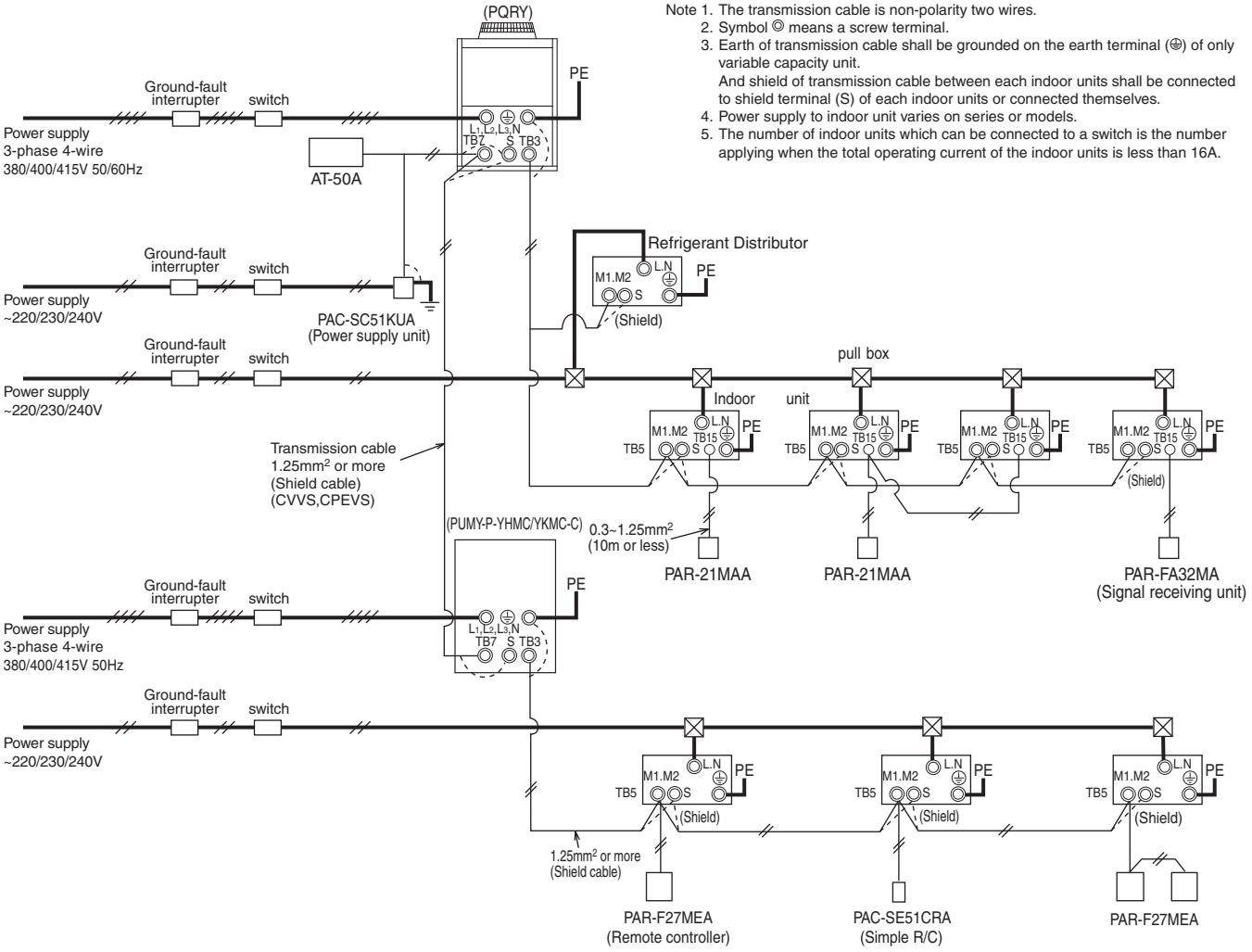
Note

- This device is intended for the connection to a power supply system with a maximum permissible system impedance shown in the above table at the interface point (power service box) of the user's supply.
- The user must ensure that this device is connected only to a power supply system which fulfils the requirement above.
If necessary, the user can ask the public power supply company for the system impedance at the interface point.

1-4. Power supply examples

The local standards and/or regulations is applicable at a higher priority.

1-4-1. PUMY-P100,125,140YHMC-C
PUMY-P200,250YKMC-C



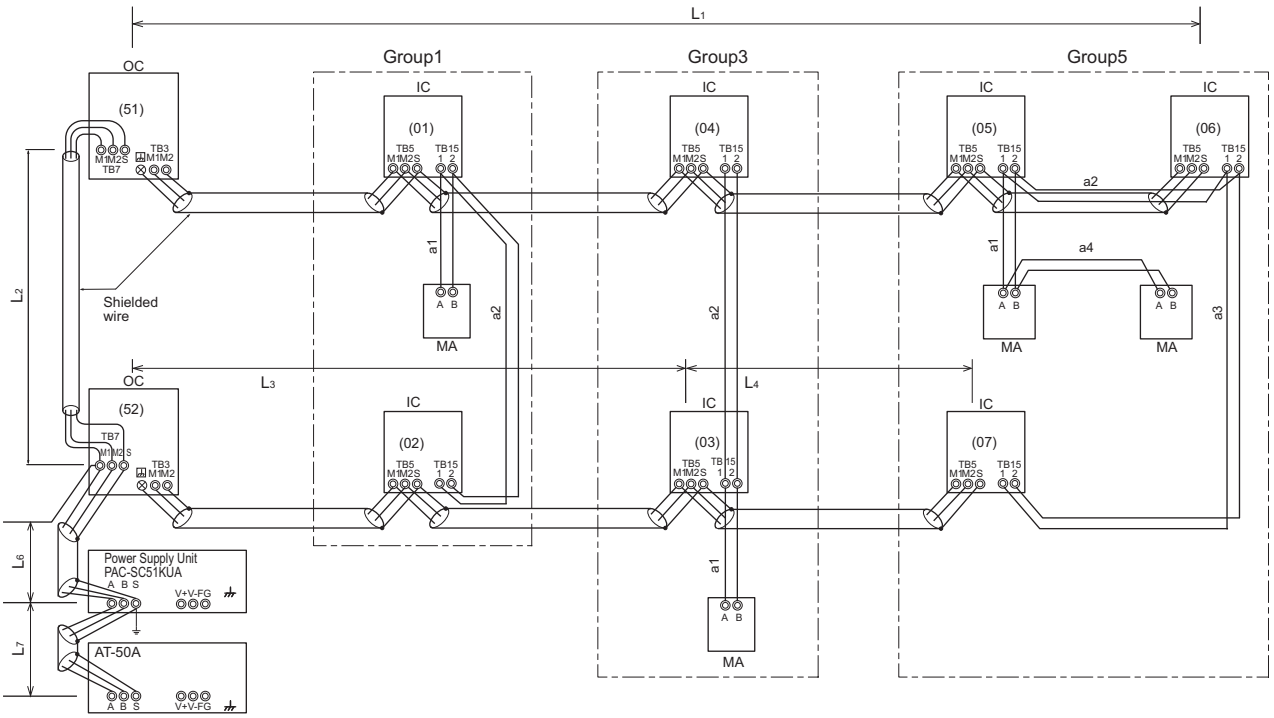
Note 1. The transmission cable is non-polarity two wires.
2. Symbol ◎ means a screw terminal.
3. Earth of transmission cable shall be grounded on the earth terminal (⏚) of only variable capacity unit.
And shield of transmission cable between each indoor units shall be connected to shield terminal (S) of each indoor units or connected themselves.
4. Power supply to indoor unit varies on series or models.
5. The number of indoor units which can be connected to a switch is the number applying when the total operating current of the indoor units is less than 16A.

2-1. Transmission cable length limitation

2-1-1. Using MA Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

Max. length via Outdoor (M-NET cable)	L1+L2+L3+L4, L1+L2+L6+L7, L3+L4+L6+L7	<=500m[1640ft]	1.25mm^2 [AWG16] or thicker
Max. length to Outdoor (M-NET cable)	L1, L3+L4, L6, L2+L6, L7	<=200m[656ft]	1.25mm^2 [AWG16] or thicker
Max. length from MA to Indoor	a1+a2, a1+a2+a3+a4	<=200m[656ft]	-



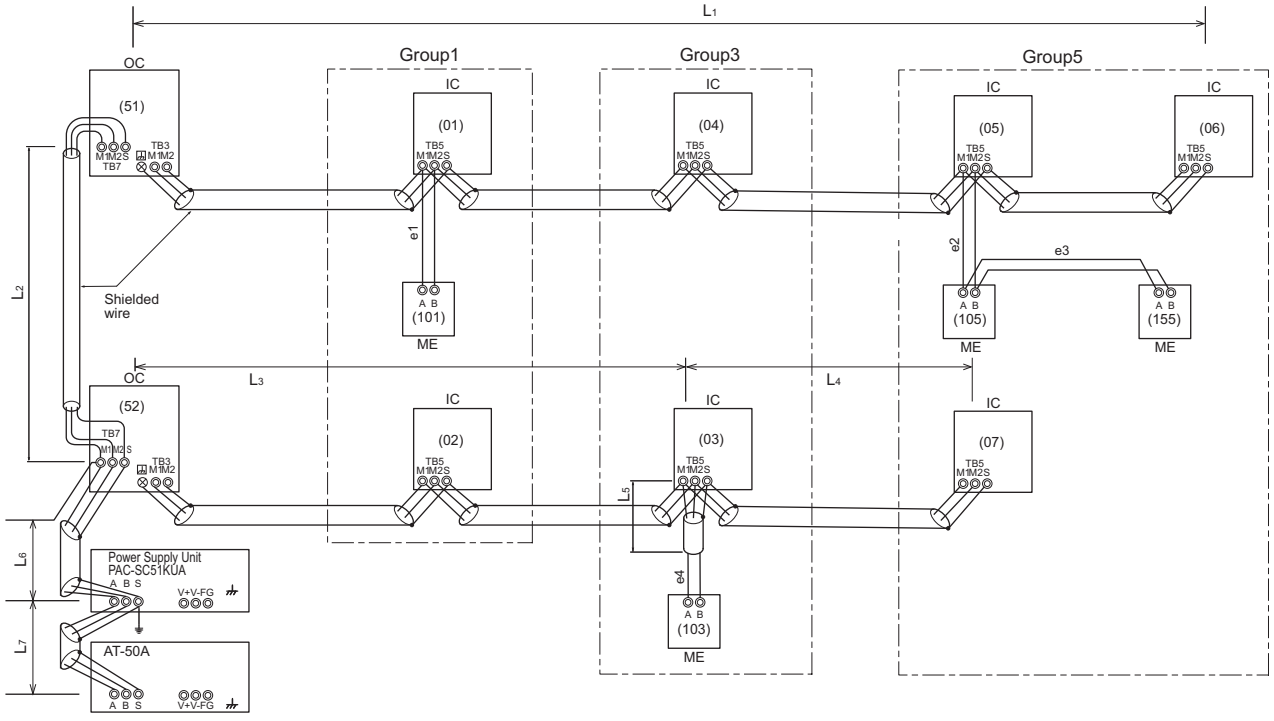
OC: Outdoor unit; IC: Indoor unit; MA: MA remote controller

2-1-2. Using ME Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

Max. length via Outdoor (M-NET cable)	L1+L2+L3+L4, L1+L2+L6+L7,L1+L2+L3+L5, L3+L4+L6+L7	<=500m[1640ft]	1.25mm^2 [AWG16] or thicker
Max. length to Outdoor (M-NET cable)	L1, L3+L4, L6, L2+L6, L7, L3+L5	<=200m[656ft]	1.25mm^2 [AWG16] or thicker
Max. length from ME to Indoor	e1,e2+e3,e4	<=10m[32ft] *1	0.3-1.25mm^2 [AWG22-16] *1

*1. If the length from ME to Indoor exceed 10m, use 1.25 mm^2[AWG16] shielded cable, but the total length should be counted into Max. length via Outdoor.



OC: Outdoor unit; IC: Indoor unit; ME: ME remote controller

2-2. Transmission cable specifications

	Transmission cables (L_i)	ME Remote controller cables	MA Remote controller cables
Type of cable	Shielding wire (2-core) CVVS, CPEVS or MVVS	Sheathed 2-core cable (unshielded) CVV	
Cable size	More than 1.25mm^2 [AWG16]	0.3～1.25mm^2 [AWG22～16] (0.75～1.25mm^2 [AWG18~16])*1	0.3～1.25mm^2 [AWG22～16]*2 (0.75～1.25mm^2 [AWG18~16])*1
Remarks	—	When 10m [32ft] is exceeded, use cables with the same specification as transmission cables.	Max length : 200m [656ft] *3

*1 Connected with simple remote controller.
*2 To wire PAR-30MAAC, use a wire with a diameter of 0.3 mm^2 [AWG22]
*3 When a PAR-30MAAC is connected to a group, no other MA remote controllers can be connected to the same group.

CVVS, MVVS : PVC insulated PVC jacketed shielded control cable
CPEVS : PE insulated PVC jacketed shielded communication cable
CVV : PV insulated PVC sheathed control cable

2-3. System configuration restrictions

2-3-1. Common restrictions for the CITYMULTI system

For each Outdoor unit, the maximum connectable quantity of Indoor unit is specified at its Specifications table.

A) 1 Group of Indoor units can have 1-16 Indoor units;
*OA processing unit GUF-RDH is considered as Indoor unit.

B) Maximum 2 remote controllers for 1 Group;
*MA/ME remote controllers cannot be present together in 1group.
*When a PAR-30MAAC is connected to a group, no other MA remote controllers can be connected to the same group.

C) 1 LOSSNAY unit can interlock maximum 16 Indoor units; 1 Indoor unit can interlock only 1 LOSSNAY unit.

D) Maximum 3 System controllers are connectable when connecting to TB3 of the Outdoor unit.

E) Maximum 3 System controllers are connectable when connecting to TB7 of the Outdoor unit, if the transmission power is supplied by the Outdoor unit.

F) 4 System controllers or more are connectable when connecting to TB7 of the Outdoor unit, if the transmission power is supplied by the power supply unit PAC-SC51KUA. Details refer to 2-3-3-B.
*System controller connected as described in D) and E) would have a risk that the failure of connected Outdoor unit would stop power supply to the System controller.

2-3-2. Ensuring proper communication power for M-NET

In order to ensure proper communication among Outdoor unit, Indoor unit, LOSSNAY, and OA processing unit GUF-RDH, and Controllers, the transmission power situation for the M-NET should be observed. In some cases, Transmission booster should be used. Taking the power consumption of Indoor unit sized P15-P140 as 1, the equivalent power consumption or supply of others are listed at Table 2-3-1 and Table 2-3-2.

Table 2-3-1 The equivalent power consumption

Indoor, OA unit	Indoor unit	MA RC. LOSSNAY	ME Remote Contr.	System Contr.	ON/OFF Contr.	MN Converter	
Sized P15-P140 GUF-50	Sized P200,P250	PAR-30MAAC PAR-21MAA PAC-YT51CRB PAR-FA32MA LGH-RX-E	PAR-F27MEA PAC-SE51CRA PZ-52SF-E	AT-50A	PAC-YT40ANRA	CMS-MNF-B	CMS-MNG-E
1	7	0	1/4	4	1	1/2	2

*RC : Remote Controller

Table 2-3-2 The equivalent power supply

Transmission Booster	Power supply unit	BM ADAPTER	Outdoor unit	Outdoor unit
PAC-SF46EPA	PAC-SC51KUA	BAC-HD150	Connector TB3 and TB7 total *	Connector TB7 only
25	5	6	32	6

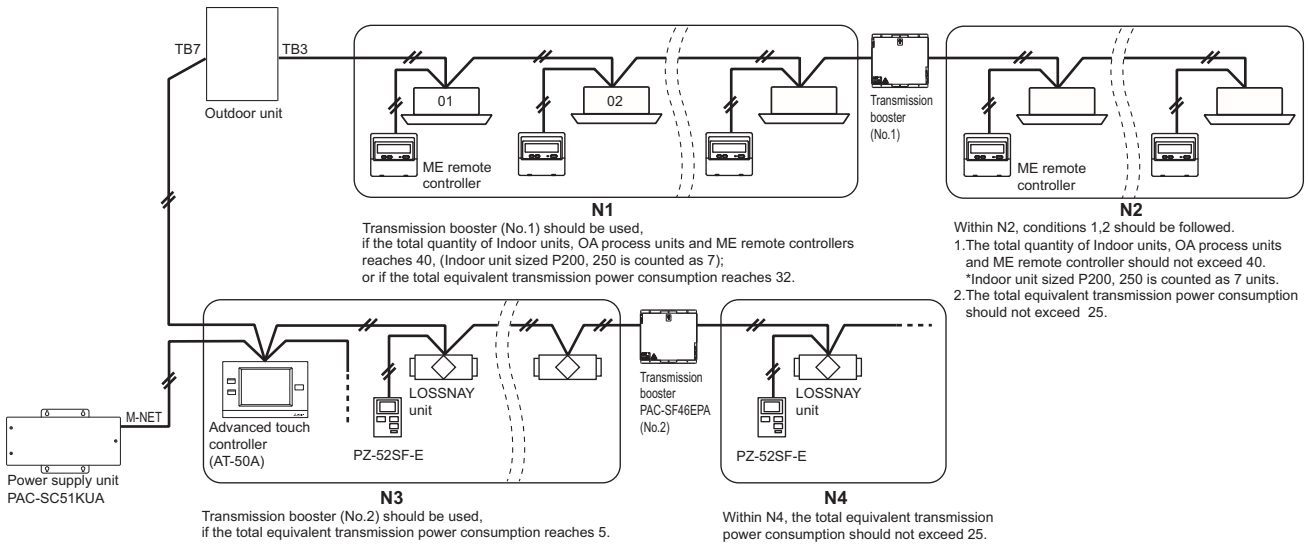
With the equivalent power consumption values in Table 2-3-1 and Table 2-3-2, PAC-SF46EPA can be designed into the air-conditioner system to ensure proper system communication according to 2-3-2-A, B, C.

2-3-2-A) Firstly, count from TB3 at TB3 side the total quantity of Indoor units, OA processing units, ME remote controller, and System controllers. If the total quantity reaches 40, a PAC-SF46EPA should be set. In this case, Indoor unit sized P200, 250 is counted as 7 Indoor units, but MA remote controller(s) and LOSSNAY are NOT counted.

2-3-2-B) Secondly, count from TB7 side to TB3 side the total transmission power consumption. If the total power consumption reaches 32, a PAC-SF46EPA should be set. Yet, if a PAC-SC51KUA is used to supply power at TB7 side, count from TB3 side only.

2-3-2-C) Thirdly, count from TB7 at TB7 side the total transmission power consumption, If the total power consumption reaches 6, a PAC-SF46EPA should be set.

■ System example



2-3-3. Ensuring proper power supply to System controller

The power to System controller (excluding LMAP02-E) is supplied via M-NET transmission line. M-NET transmission line at TB7 side is called Centralized control transmission line while one at TB3 side is called Indoor-Outdoor transmission line. There are 3 ways to supply power to the System controller .

A) Connecting to TB3 of the Outdoor unit and receiving power from the Outdoor unit.

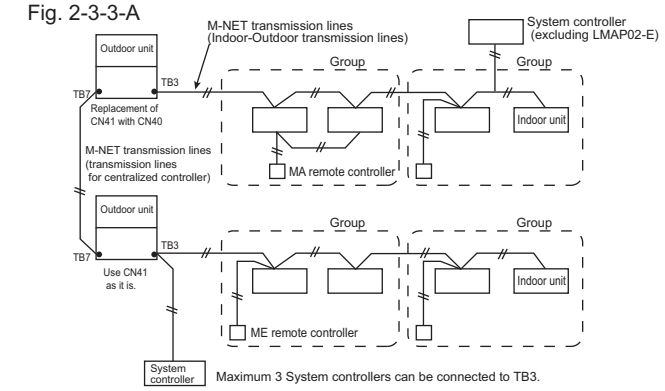
B) Connecting to TB7 of the Outdoor unit and receiving power from the Outdoor unit.

C) Connecting to TB7 of the Outdoor unit but receiving power from power supply unit PAC-SC51KUA.

2-3-3-A. When connecting to TB3 of the Outdoor unit and receiving power from the Outdoor unit.

Maximum 3 System controllers can be connected to TB3.
If there is more than 1 Outdoor unit, it is necessary to replace power supply switch connector CN41 with CN40 on one Outdoor unit.

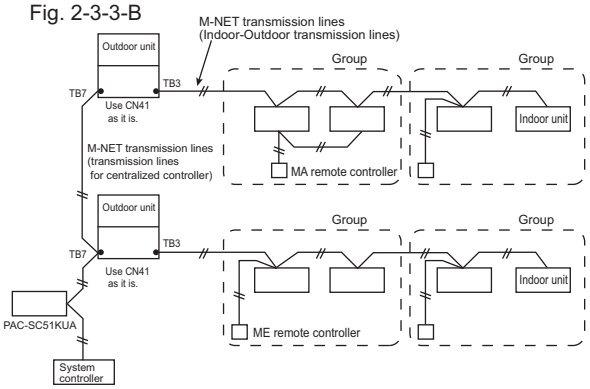
Fig. 2-3-3-A



2-3-3-B. When connecting to TB7 of the Outdoor unit but receiving power from PAC-SC51KUA.

When using PAC-SC51KUA to supply transmission power, the power supply connector CN41 on the Outdoor units should be kept as it is. It is also a factory setting. However, 1 PAC-SC51KUA supplies transmission power at its TB2 equal to 5 Indoor units, which is referable at Table 2-3-2.
If PZ-52SF-E, Timers, System controller, ON/OFF controller connected to TB7 consume transmission power more than 5 (Indoor units), Transmission booster PAC-SF46EPA is needed. PAC-SF46EPA supplies transmission power equal to 25 Indoor units.

Fig. 2-3-3-B



2-3-4. Power supply to LM adapter LMAP02-E

1-phase 220-240VAC power supply is needed.
The power supply unit PAC-SC51KUA is not necessary when connecting only the LMAP02-E. Yet, make sure to change the power supply changeover connector CN41 to CN40 on the LM adapter.

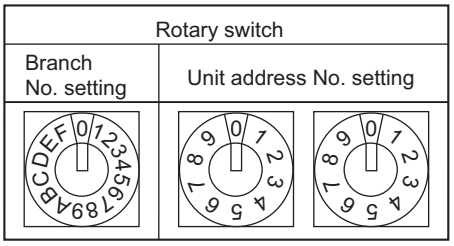
2-3-5. Power supply to BM ADAPTER

1-phase 100-240VAC power supply is needed.
The power supply unit PAC-SC51KUA is not necessary when only BM ADAPTER is connected.
Yet, make sure to move the power jumper from CN41 to CN40 on the BM ADAPTER.

2-4. Address setting

2-4-1. Switch operation

In order to constitute CITY MULTI in a complete system, switch operation for setting the unit address No. and connection No. is required.



① Address No. of outdoor unit, indoor unit and remote controller.
The address No. is set at the address setting board.

② Caution for switch operations

- Be sure to shut off power source before switch setting. If operated with power source on, switch can not operate properly.
- No units with identical unit address shall exist in one whole air conditioner system. If set erroneously, the system can not operate.

③ MA remote controller

- When connecting only one remote controller to one group, it is always the main remote controller.
  When connecting two remote controllers to one group, set one remote controller as the main remote controller and the other as the sub remote controller.
- The factory setting is "Main".

PAR-21MAA
The MA remote controller does not have the switches listed above.
Refer to the installation manual for the function setting.

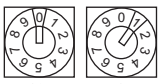
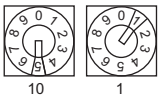
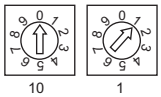
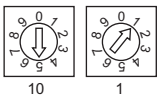
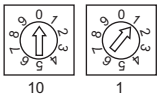
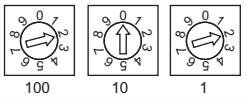
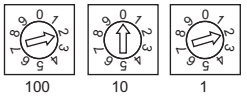
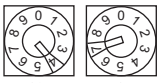
PAC-YT51CRB

Setting the dip switches

There are switches on the front of the remote controller. Remote controller Main/Sub and other function settings are performed using these switches. Ordinarily, only change the Main/Sub setting of SW1.
(The factory settings are all "ON".)

SW No	SW contents Main	ON	OFF	Comment
1	Remote controller Main/Sub setting	Main	Sub	Set one of the two remote controllers at one group to "Main"
2	Temperature display units setting	Celsius	Fahrenheit	When the temperature is displayed in [Fahrenheit], set to "No".
3	Cooling/heating display in AUTO mode	Yes	No	When you do not want to display "Cooling" and "Heating" in the Auto mode, set to "No".

2-4-2. Rule of setting address

Unit		Address setting	Example	Note
Indoor unit		01 ~ 50	 10 1	Use the most recent address within the same group of indoor units.
Outdoor unit		51 ~ 99, 100 (Note1)	 10 1	The smallest address of indoor unit in same refrigerant system + 50 Assign sequential address numbers to the outdoor units in one refrigerant circuit system. OC, OS1 and OS2 are automatically detected. (Note 2) ∗ Please reset one of them to an address between 51 and 99 when two addresses overlap. ∗ The address automatically becomes "100" if it is set as "01~ 50"
Local remote controller	ME, LOSSNAY Remote controller (Main)	101 ~ 150	1 Fixed  10 1	The smallest address of indoor unit in the group + 100 ∗ The place of "100" is fixed to "1"
	ME, LOSSNAY Remote controller (Sub)	151 ~ 199, 200	1 Fixed  10 1	The address of main remote controller + 50 ∗ The address automatically becomes "200" if it is set as "00"
System controller	Group remote controller	201 ~ 250	2 Fixed  10 1	The smallest group No. to be managed + 200
	System remote controller	000, 201 ~ 250	 100 10 1	
	ON/OFF remote controller	000, 201 ~ 250	 100 10 1	The smallest group No. to be managed + 200 ∗ The smallest group No. to be managed is changeable.
	AT-50A	000, 201 ~ 250	0,2 0~5 0~9 100 10 1	
	BAC-HD150	000, 201 ~ 250	0,2 0~5 0~9 100 10 1	∗ Settings are made with setting tool of BM ADAPTER.
	LMAP02-E	201 ~ 250	2 Fixed  10 1	

Note1: To set the address to "100", set it to "50"
Note2: Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected.
OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.

2-4-3. System example

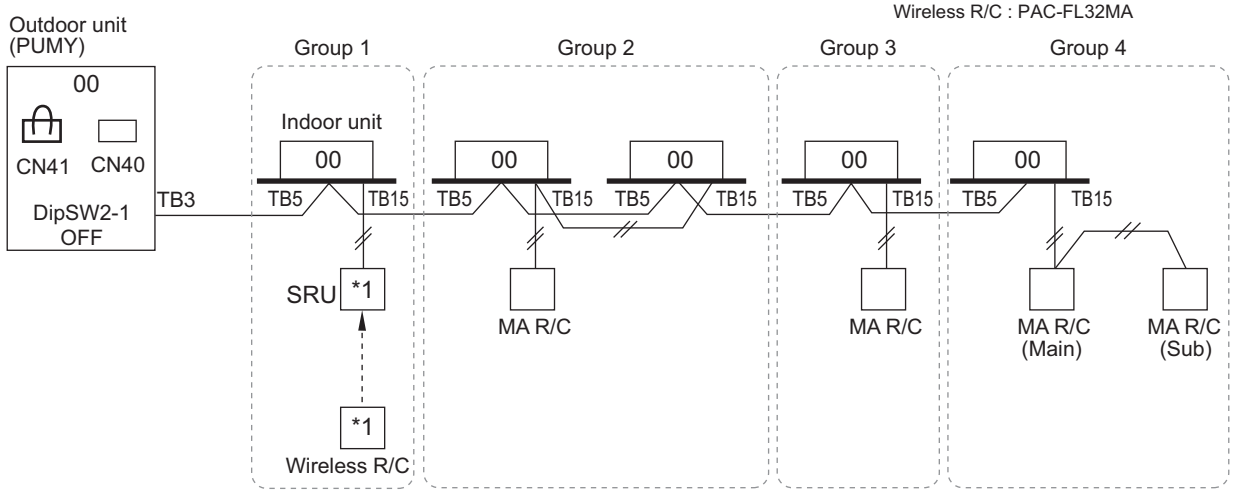
Factory setting

Original switch setting of the outdoors, indoors, controllers, LMAP02U-E at shipment is as follows.

- Outdoor unit : Address: 00, CN41: ON, DipSW2-1: OFF
- Indoor unit : Address: 00
- ME Remote controller : Address: 101
- LMAP : Address: 247, CN41: ON, DipSW1-2: OFF
- BM ADAPTER : Address: 000

2-4-3-1. Basic (No address setting)

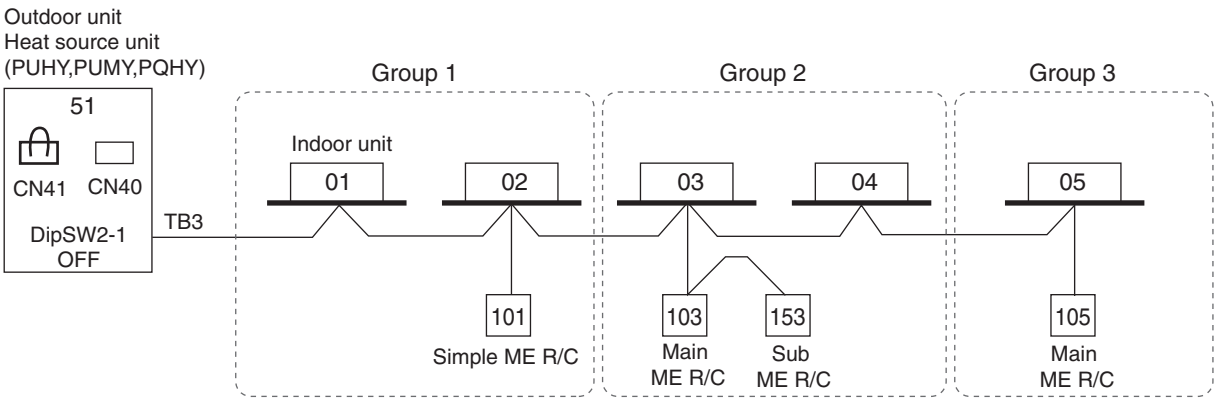
MA R/C : PAR-21MAA
SRU (signal receiving unit) : PAC-FA32MA
Wireless R/C : PAC-FL32MA



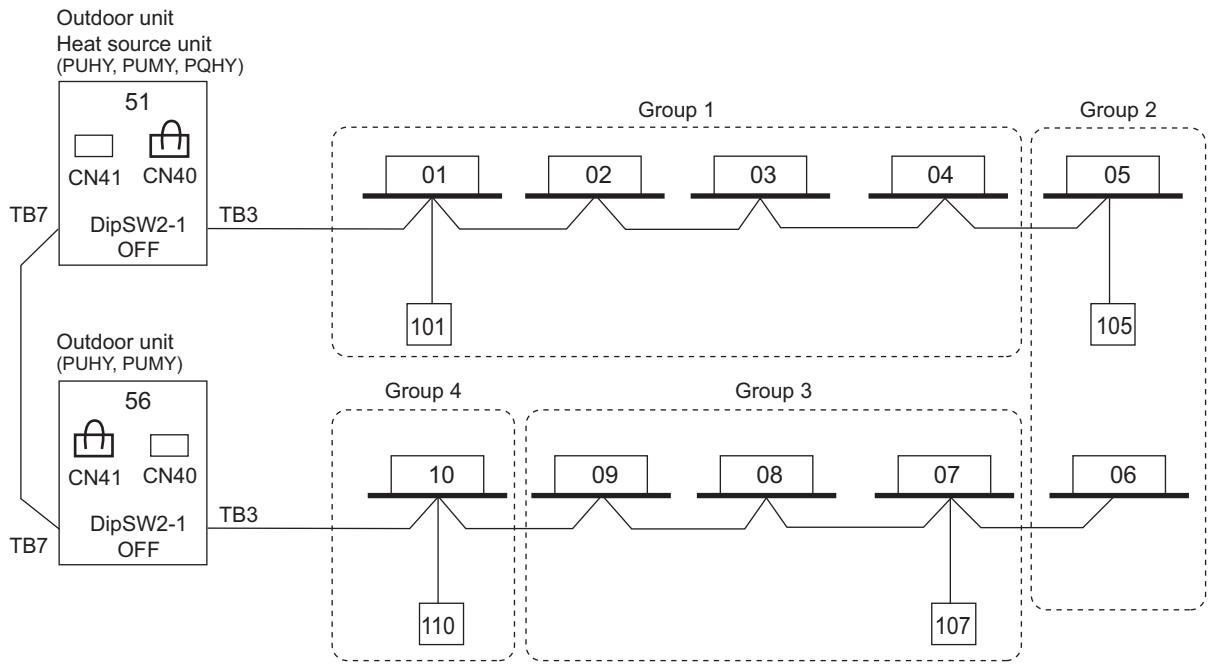
*1 For wireless R/C and Signal receiver unit(SBU), channel 1, 2 and 3 are selectable and should be set same channel.

2-4-3-2. Basic, Sub/main ME remote controller

Main ME R/C : PAR-F27MEA
Sub ME R/C : PAR-F27MEA

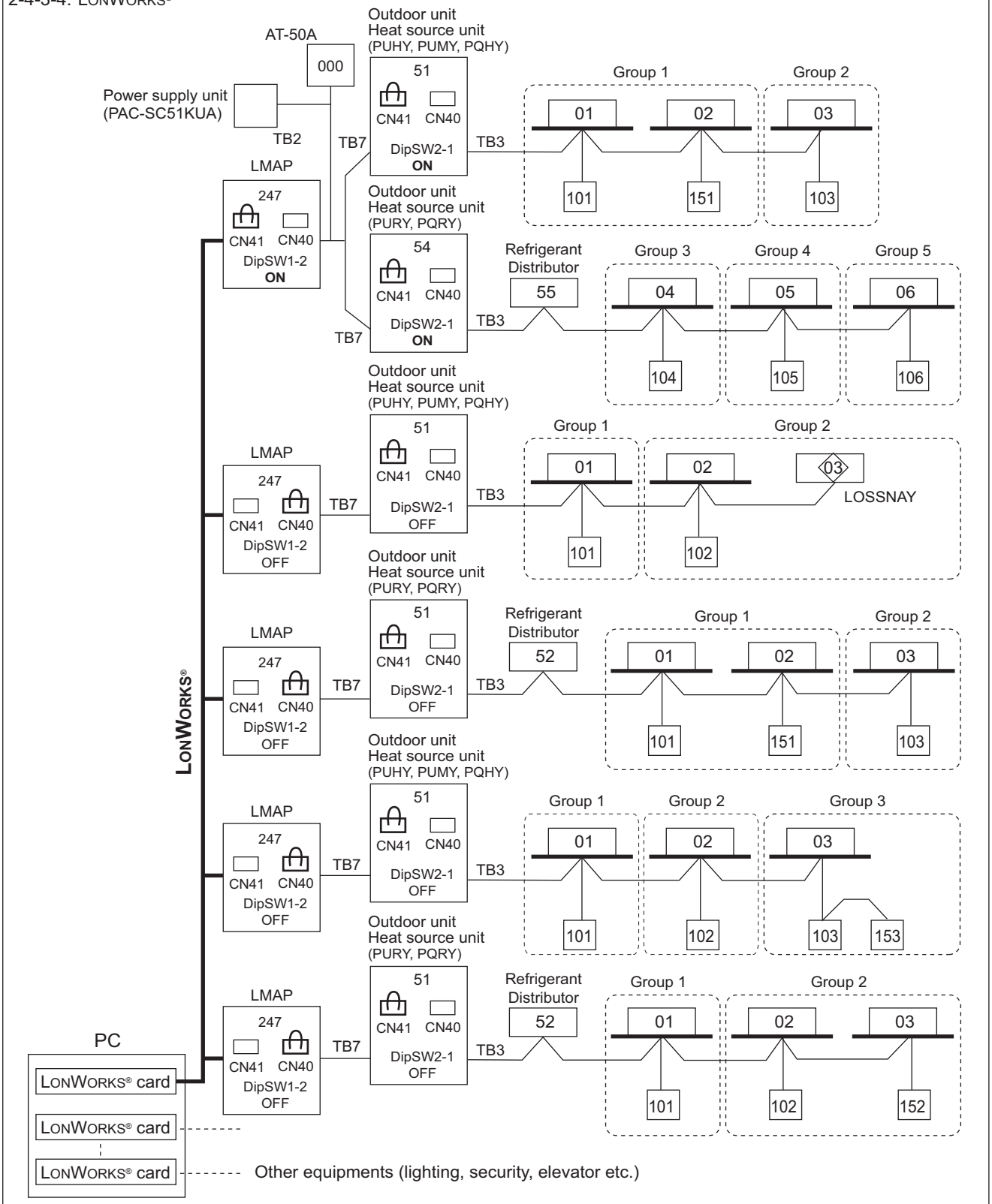


2-4-3-3. Grouping in different refrigerant system



NOTE
- It is necessary to change the connecter to CN40 on the outdoor unit (Heat source unit) control board (only one outdoor unit (Heat source unit)) when the group is set between other refrigerant systems.
- It is necessary to set on the remote controller by manual when group sets on the different refrigerant system. Please refer to remote controller installation manual.

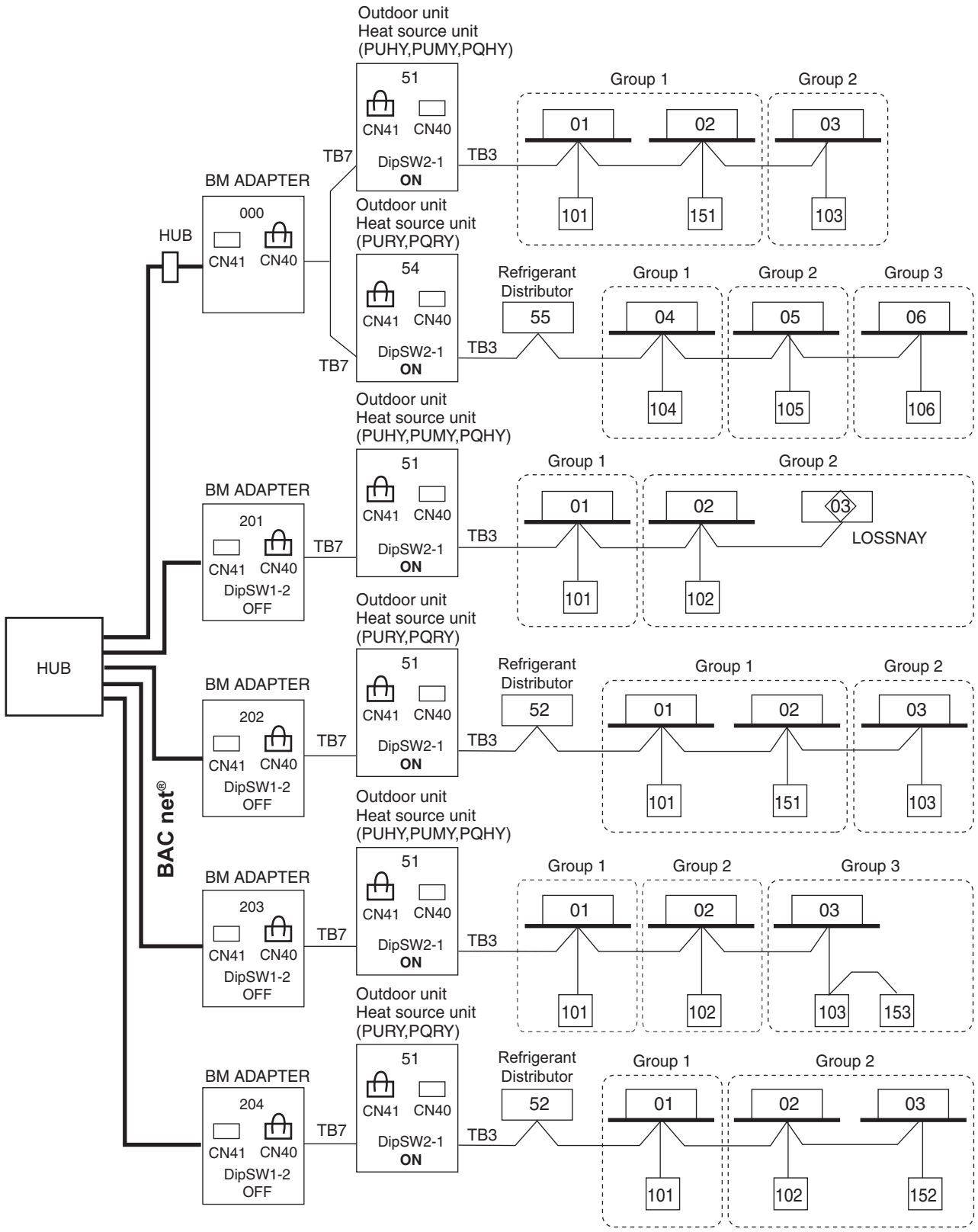
2-4-3-4. LONWORKS®



NOTE
- LMAP (LMAP02-E) can control 50 indoor units.
- It is necessary to turn on the DipSW1-2 on the LMAP control board and the DipSW2-1 on the outdoor unit (heat source unit) control board with centralized controller (Power supply unit).
- It is necessary to change the connector to CN40 on the LMAP control board without centralized controllers (Power supply unit)

2-4-3-5. BM ADAPTER

BM ADAPTER can transmission for max. 50 indoor units;
Change Jumper from CN41 to CN40 to activate power supply to BM ADAPTER itself for those BM ADAPTER connected without the power supply unit.



3-1. R410A Piping material

Refrigerant pipe for CITY MULTI shall be made of phosphorus deoxidized copper, and has two types.
A. Type-O : Soft copper pipe (annealed copper pipe), can be easily bent with human's hand.
B. Type-1/2H pipe : Hard copper pipe (Straight pipe), being stronger than Type-O pipe of the same radical thickness.

The maximum operation pressure of R410A air conditioner is 4.30 MPa [623psi]. The refrigerant piping should ensure the safety under the maximum operation pressure. MITSUBISHI ELECTRIC recommends pipe size as Table 3-1, or You shall follow the local industrial standard. Pipes of radical thickness 0.7mm or less shall not be used.

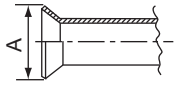
Table 3-1. Copper pipe size and radial thickness for R410A CITY MULTI.

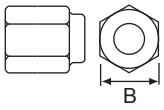
Size (mm)	Size (inch)	Radial thickness (mm)	Radial thickness (mil)	Pipe type
ø6.35	ø1/4"	0.8	[32]	Type-O
ø9.52	ø3/8"	0.8	[32]	Type-O
ø12.7	ø1/2"	0.8	[32]	Type-O
ø15.88	ø5/8"	1.0	[40]	Type-O
ø19.05	ø3/4"	1.2	[48]	Type-O
ø19.05	ø3/4"	1.0	[40]	Type-1/2H or H
ø22.2	ø7/8"	1.0	[40]	Type-1/2H or H
ø25.4	ø1"	1.0	[40]	Type-1/2H or H
ø28.58	ø1-1/8"	1.0	[40]	Type-1/2H or H
ø31.75	ø1-1/4"	1.1	[44]	Type-1/2H or H
ø34.93	ø1-3/8"	1.2	[48]	Type-1/2H or H
ø41.28	ø1-5/8"	1.4	[56]	Type-1/2H or H

* For pipe sized ø19.05 (3/4") for R410A air conditioner, choice of pipe type is up to you.
* The figures in the radial thickness column are based on the Japanese standards and provided only as a reference. Use pipes that meet the local standards.

Flare

Due to the relative higher operation pressure of R410A compared to R22, the flare connection should follow dimensions mentioned below so as to achieve enough the air-tightness.

Flare pipe	Pipe size	A (For R410A) (mm[in.])
	ø6.35 [1/4"]	9.1
	ø9.52 [3/8"]	13.2
	ø12.70 [1/2"]	16.6
	ø15.88 [5/8"]	19.7
	ø19.05 [3/4"]	24.0

Flare nut	Pipe size	B (For R410A) (mm[in.])
	ø6.35 [1/4"]	17.0
	ø9.52 [3/8"]	22.0
	ø12.70 [1/2"]	26.0
	ø15.88 [5/8"]	29.0
	ø19.05 [3/4"]	36.0

3-2. Piping Design

3-2-1. PUMY-P-YHMC-C/VHMC-S Piping

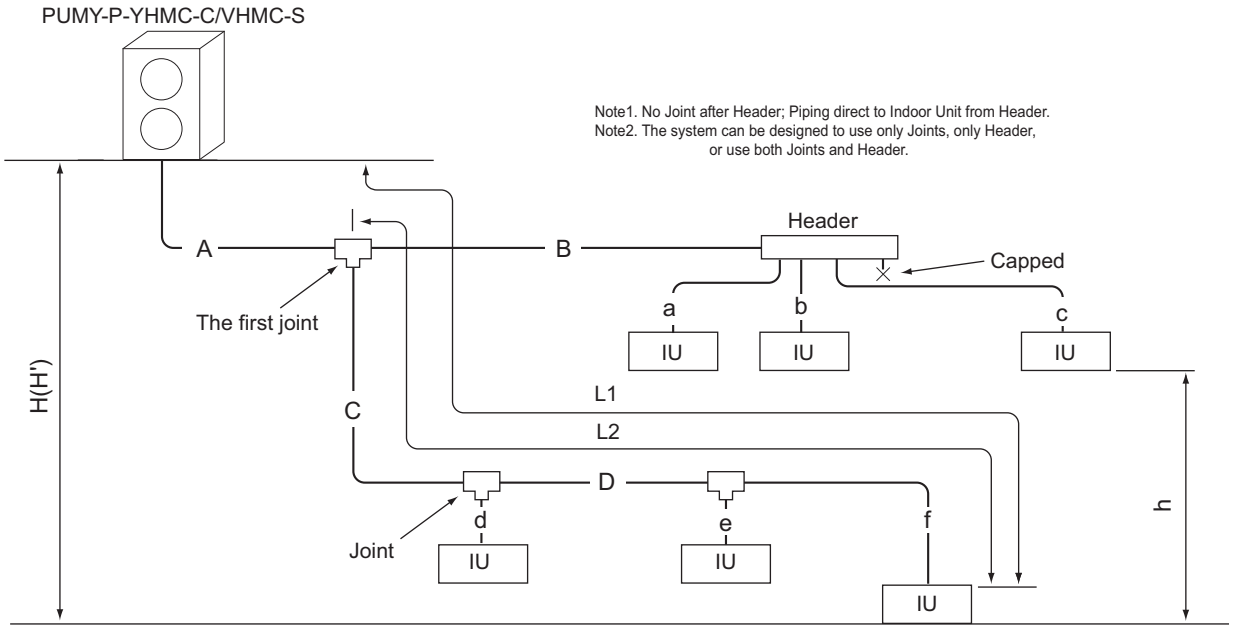


Fig. 3-2-1A Piping scheme

IU : Indoor unit , OU : Outdoor unit

Table3-2-1-1. Piping length (m [ft.])

Item	Piping in the figure	Max. length
Total piping length	A+B+C+D+a+b+c+d+e+f	120 [393']
Farthest IU from OU (L1)	A+C+D+f / A+B+c	80 [262']
Farthest IU from the first Joint (L2)	C+D+f / B+c	30 [98']
Height between OU and IU (OU above IU)	H	50 [164']
Height between OU and IU (OU under IU)	H'	20 [65']
Height between IU and IU	h	12 [39']

OU: Outdoor Unit, IU: Indoor Unit

Table3-2-1-2. Piping "A"size selection rule (mm [in.])

Outdoor and the first-Joint/Header	Pipe(Liquid)	Pipe(Gas)
PUMY-P-YHMC-C/VHMC-S=CMY-Y62-G-E	ø9.52 [3/8"]	ø15.88 [5/8"]
PUMY-P-YHMC-C/VHMC-S=CMY-Y64,Y68-G-Eb	ø9.52 [3/8"]	ø15.88 [5/8"]

Table3-2-1-3. Piping "B","C","D"size selection rule (mm [in.])

Total down-stream Indoor capacity	Pipe(Liquid)	Pipe(Gas)
~ P182	ø9.52 [3/8"]	ø15.88 [5/8"]

Table3-2-1-4. Piping "a","b","c","d","e","f"size selection rule (mm [in.])

Indoor Unit size	Pipe(Liquid)	Pipe(Gas)
P15,P20,P25,P32,P40,P50	ø6.35 [1/4"]	ø12.70 [1/2"]
P63,P71,P80,P100,P125,P140	ø9.52 [3/8"]	ø15.88 [5/8"]

Table3-2-1-5. Joint, Header selection rule

Joint	4-branch Header	8-branch Header
CMY-Y62-G-E	CMY-Y64-G-E	CMY-Y68-G-E

* For details of installation of Joint, header, and distributor, refer to its Installation Manual.

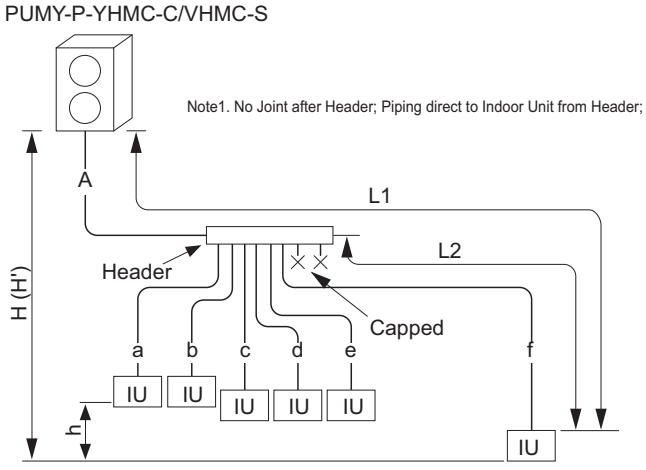


Fig. 3-2-1B Piping scheme

Table3-2-1B1. Piping length (m [ft.])

Item	Piping in the figure	Max. length
Total piping length	A+a+b+c+d+e+f	120 [393']
Farthest IU from OU (L1)	A+f	80 [262']
Farthest IU from Header (L2)	f	30 [98']
Height between OU and IU (OU above IU)	H	50 [164']
Height between OU and IU (OU under IU)	H'	20 [65']
Height between IU and IU	h	12 [39']

Note3. Indoor capacity is described as its model size;
For example, PEFY-P32VMA-E-S, its capacity is P32;
Note4. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.
For example, PEFY-P25VMA-E-S+PEFY-P32VMA-E-S: Total Indoor capacity=P25+P32=P57

3-2-2. PUMY-P-YKMC-C Piping

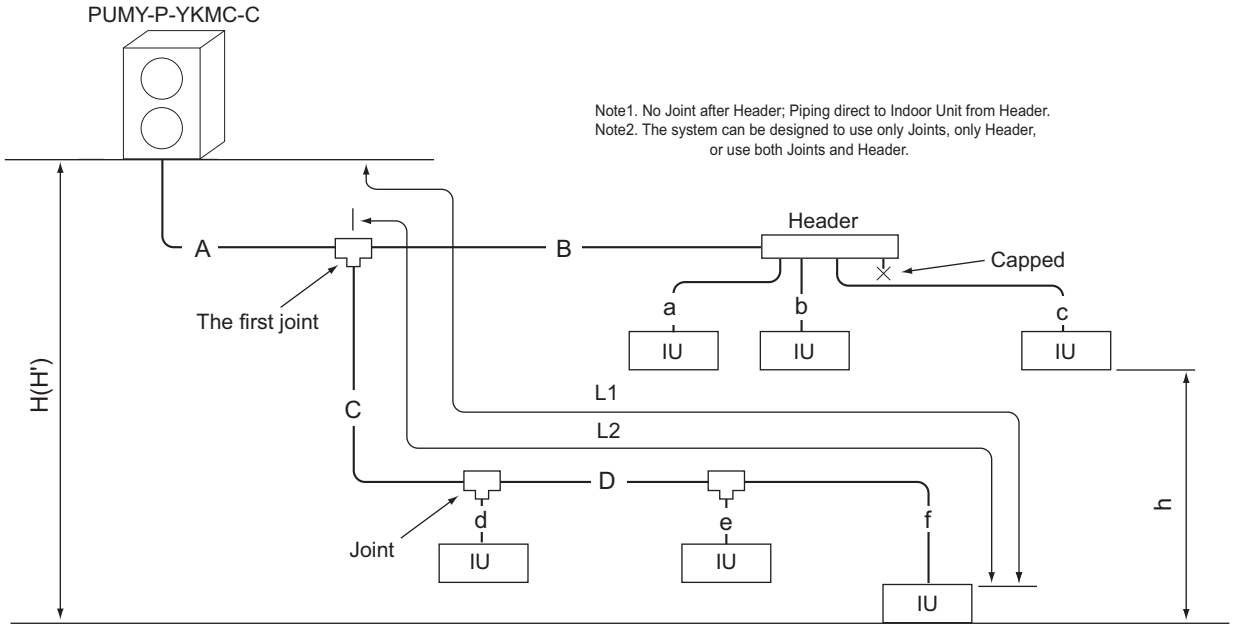


Fig. 3-2-2A Piping scheme

IU : Indoor unit , OU : Outdoor unit

Table3-2-2-1. Piping length (m [ft.])

Item	Piping in the figure	Max. length
Total piping length	A+B+C+D+a+b+c+d+e+f	150 [492']
Farthest IU from OU (L1)	A+C+D+f / A+B+c	80 [262']
Farthest IU from the first Joint (L2)	C+D+f / B+c	30 [98']
Height between OU and IU (OU above IU)	H	50 [164']
Height between OU and IU (OU under IU)	H'	40 [131']
Height between IU and IU	h	15 [49']

OU: Outdoor Unit, IU: Indoor Unit

Table3-2-2-2. Piping "A"size selection rule (mm [in.])

Outdoor and the first-Joint/Header	Pipe(Liquid)	Pipe(Gas)
PUMY-P-YKMC-C=CMY-Y62-G-E	L1≤60m[196ft]:ø9.52 [3/8"] L1>60m[196ft]:ø12.70 [1/2"]	ø22.2 [7/8"]
PUMY-P-YKMC-C=CMY-Y64,Y68-G-Eb	L1≤60m[196ft]:ø9.52 [3/8"] L1>60m[196ft]:ø12.70 [1/2"]	ø22.2 [7/8"]

Table3-2-2-3. Piping "B","C","D"size selection rule (mm [in.])

Total down-stream Indoor capacity	Pipe(Liquid)	Pipe(Gas)
~ 16.0kW	ø9.52 [3/8"]	ø15.88 [5/8"]
16.1 ~ 22.4kW	ø9.52 [3/8"]	ø19.05 [3/4"]
22.5 ~ 32.5kW	ø9.52 [3/8"]	ø22.2 [7/8"]

Table3-2-2-4. Piping "a","b","c","d","e","f"size selection rule (mm [in.])

Indoor Unit size	Pipe(Liquid)	Pipe(Gas)
P15,P20,P25,P32,P40,P50	ø6.35 [1/4"]	ø12.70 [1/2"]
P63,P71,P80,P100,P125,P140	ø9.52 [3/8"]	ø15.88 [5/8"]

Table3-2-2-5. Joint, Header selection rule

Joint	4-branch Header	8-branch Header
CMY-Y62-G-E	CMY-Y64-G-E	CMY-Y68-G-E

* For details of installation of Joint, header, and distributor, refer to its Installation Manual.

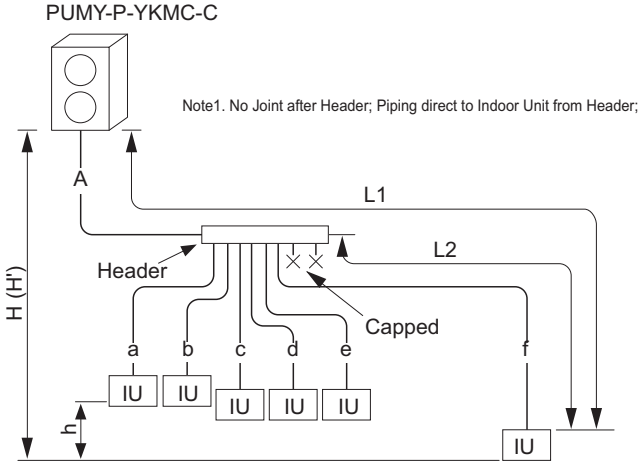


Fig. 3-2-2B Piping scheme

Table3-2-2B1. Piping length (m [ft.])

Item	Piping in the figure	Max. length
Total piping length	A+a+b+c+d+e+f	150 [492']
Farthest IU from OU (L1)	A+f	80 [262']
Farthest IU from Header (L2)	f	30 [98']
Height between OU and IU (OU above IU)	H	50 [164']
Height between OU and IU (OU under IU)	H'	40 [131']
Height between IU and IU	h	15 [49']

Note3. Indoor capacity is described as its model size;
For example, PEFY-P32VMA-E-S, its capacity is P32;
Note4. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.
For example, PEFY-P25VMA-E-S+PEFY-P32VMA-E-S: Total Indoor capacity=P25+P32=P57

3-3. Refrigerant charging calculation

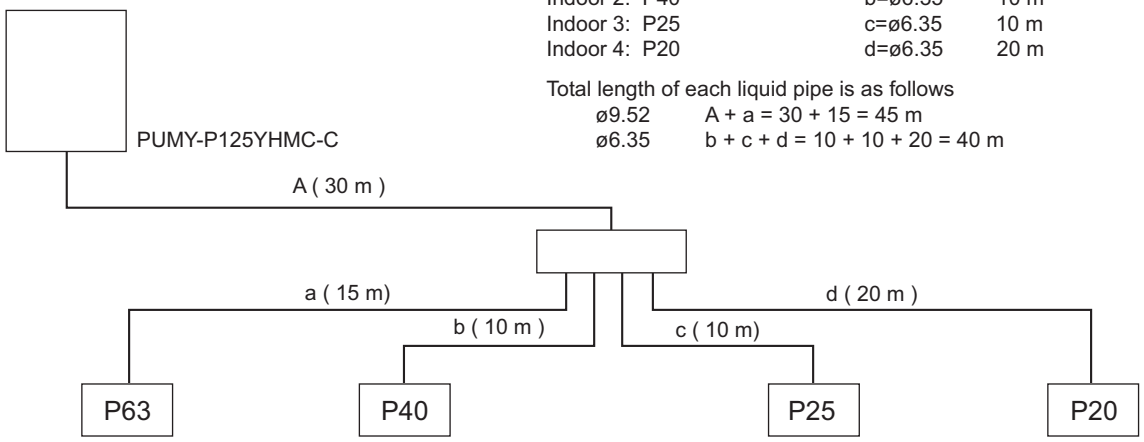
3-3-1. PUMY-P-YHMC-C/VHMC-S

Original refrigerant charge for PUMY-P-YHMC-C/VHMC-S is 8.5 kg, including 3 kg for 50 m total extended piping length use. Thus, there is no need to charge additional refrigerant to the system if the total extended piping length is 50 m or less.

If the total extended piping length is over 50 m, calculate the additional refrigerant using following procedure. Yet, if the calculated result is negative, no additional charge is needed.

Additional refrigerant charge	=	Total length of liquid pipe sized ø9.52 x 0.06 (kg/m)	+	Total length of liquid pipe sized ø6.35 x 0.024 (kg/m)	-	Original charge
(kg)		(m) x 0.06 (kg/m)		(m) x 0.024 (kg/m)		3.0 (kg)

Example:



Indoor 1: P63 A=ø9.52 30 m a=ø9.52 15 m
Indoor 2: P40 b=ø6.35 10 m
Indoor 3: P25 c=ø6.35 10 m
Indoor 4: P20 d=ø6.35 20 m

Total length of each liquid pipe is as follows
ø9.52 A + a = 30 + 15 = 45 m
ø6.35 b + c + d = 10 + 10 + 20 = 40 m

Additional refrigerant charge	=	Total length of liquid pipe sized ø9.52 x 0.06 (kg/m)	+	Total length of liquid pipe sized ø6.35 x 0.024 (kg/m)	-	Original charge
(kg)		45 (m) x 0.06 (kg/m)		40 (m) x 0.024 (kg/m)		3.0(kg)

= 2.70 + 0.96 - 3.00

= 0.66

≈ 0.7 kg (round-up)

3-3-2. PUMY-P-YKMC-C

Additional refrigerant charge

Refrigerant for the extended piping is not included in the outdoor unit when the unit is shipped from the factory. Therefore, charge each refrigerant piping system with additional refrigerant at the installation site. In addition, in order to carry out service, enter the size and length of each liquid pipe and additional refrigerant charge amounts in the spaces provided on the “Refrigerant amount” plate on the outdoor unit.

Calculation of additional refrigerant charge

- Calculate the additional charge using the liquid pipe size and length of the extended piping.
- Calculate the additional refrigerant charge using the procedure shown below, and charge with the additional refrigerant.
- For amounts less than 0.1 kg, round up the calculated additional refrigerant charge. (For example, if the calculated charge is 32.92 kg, round up the charge to 33.0 kg.)

<Additional charge>

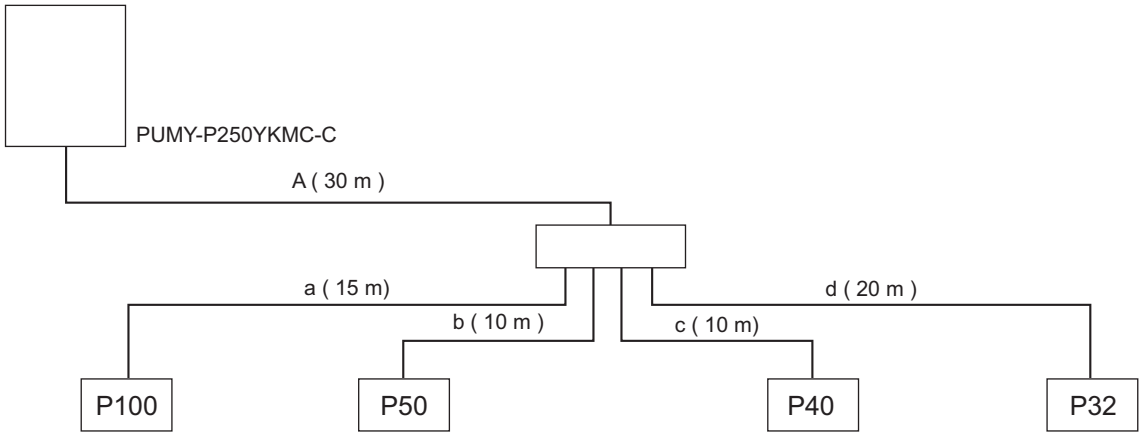
Calculation of refrigerant charge

Pipe size Liquid pipe ø6.35	+	Pipe size Liquid pipe ø9.52	+	Pipe size Liquid pipe ø12.7	+	Total capacity of connected indoor units	Amount for the indoo runits
(m) × 19.0 (g/m)		(m) × 50.0 (g/m)		(m) × 92.0 (g/m)		~P160	2.5 kg
						P161 ~ P250	3.0 kg
						P251 ~	3.5 kg

Included refrigerant amount when shipped from the factory

Included refrigerant amount
7.3 kg

Example:



Outdoor model: P250

1: P100 A: ø9.52 [3/8"]/ø22.2 [7/8"]: 30 m
2: P50
3: P40
4: P32

a: ø9.52 [3/8″]/ø15.88 [5/8″] 15 m
b: ø6.35 [1/4″]/ø12.7 [1/2″] 10 m
c: ø6.35 [1/4″]/ø12.7 [1/2″] 10 m
d: ø6.35 [1/4″]/ø12.7 [1/2″] 20 m

} For these piping lengths

The total length of each pipe size is as follows:

ø9.52 [3/8″]/ø22.2 [7/8"] A = 30 m

ø9.52 [3/8″]/ø15.88 [5/8″]: a = 15 m

ø6.35 [1/4″]/ø12.7 [1/2″]: b + c + d = 10 m + 10 m + 20 m = 40 m

The total capacity of connected indoor units is as follows:

P100 + P50 + P40 + P32 = P222

Therefore, the additional charge is as follows:

$$= (10 + 10 + 20) \times \frac{19.0}{1000} + (30+15) \times \frac{50.0}{1000} + 3.0$$

= 6.1 kg

4-1. Requirement on installation site

4-1-1. General caution

A. Avoid locations exposed to direct sunlight or other sources of heat.
B. Select a location from which noise emitted by the unit will not inconvenience the neighbors.
C. Select a location permitting easy wiring and pipe access to the power source and indoor unit.
D. Avoid locations where combustible gases may leak, be produced, flow, or accumulate.
E. Note that water may drain from the unit during operation.
F. Select a level location that can bear the weight and vibration of the unit.
G. Avoid locations where the unit can be covered by snow. In areas where heavy snow fall is anticipated, special precautions such as raising the installation location or installing a hood on the air intake must be taken to prevent the snow from blocking the air intake or blowing directly against it. This can reduce the airflow and a malfunction may result.
H. Avoid locations exposed to oil, steam, or sulfuric gas.
I. Use the transportation handles of the outdoor unit to transport the unit. If the unit is carried from the bottom, hands or fingers may be pinched.

4-1-2. Installation at windy location.

When installing the outdoor unit on a rooftop or other location unprotected from the wind, situate the air outlet of the unit so that it is not directly exposed to strong winds.Strong wind entering the air outlet may impede the normal airflow and a malfunction may result.
The following shows two examples of precautions against strong winds.
① Install an optional air guide if the unit is installed in a location where strong winds from a typhoon, etc. may directly enter the air outlet. (Fig. 4-1-2a)
② Position the unit so that the air outlet blows perpendicularly to the seasonal wind direction, if possible. (Fig. 4-1-2b)

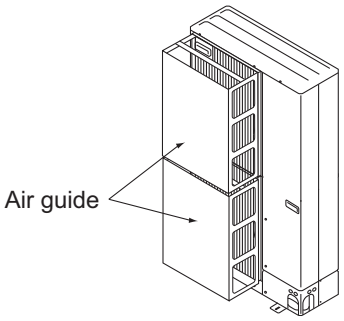


Fig. 4-1-2a

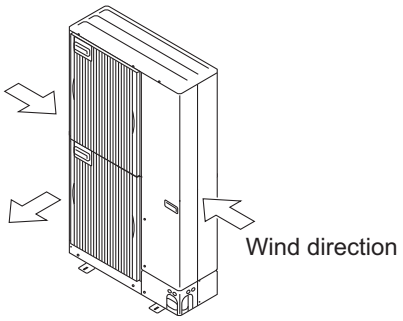


Fig. 4-1-2b

4-1-3. Foundation

A. Be sure to install the unit in a sturdy, level surface to prevent rattling noises during operation. (see Fig. 4-1-3a,b)
B. Foundation specifications are as follows.

mm [in.]

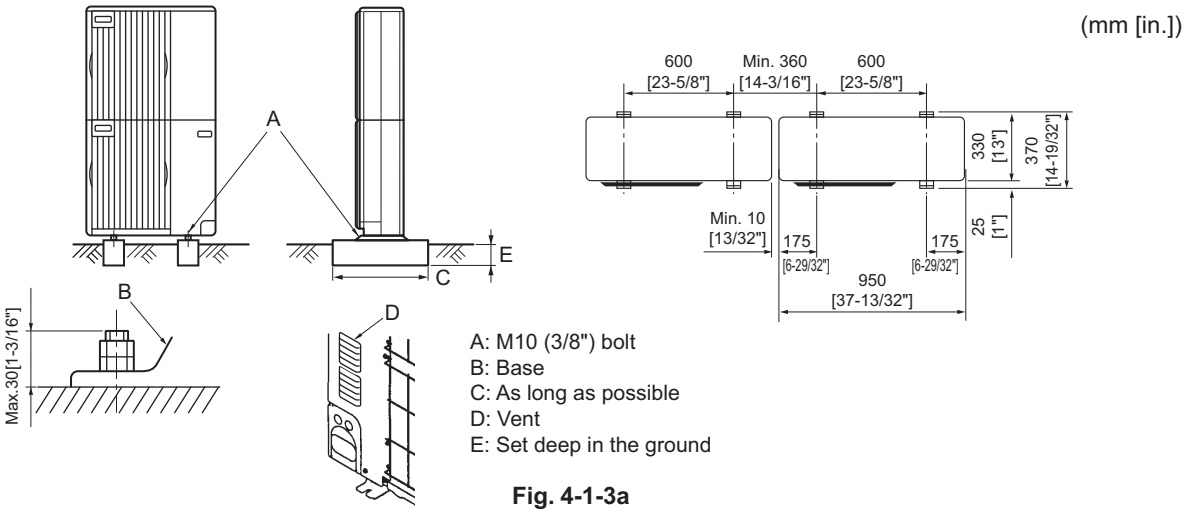
Thickness of concrete	Weight-bearing capacity	Foundation bolt	Bolt length
120 [4-3/4"]	320 kg [706lbs]	M10 [3/8"]	70 [2-25/32"]

C. Make sure that the length of the foundation bolt is within 30 mm [1-3/16"] of the bottom surface of the base.
D. Secure the base of the unit firmly with four-M10 [3/8"] foundation bolts in sturdy locations.

<PUMY-P100,125,140YHMC-C/VHMC-S>

⚠ Warning:
A. The foundation base should be strong enough to support the outdoor unit, otherwise, it may fall down and cause damage or injures.
B. The unit must be installed according to the instructions in order to minimize the risk of damage from earthquakes, typhoons, or strong winds.

(mm [in.])



A: M10 (3/8") bolt
B: Base
C: As long as possible
D: Vent
E: Set deep in the ground

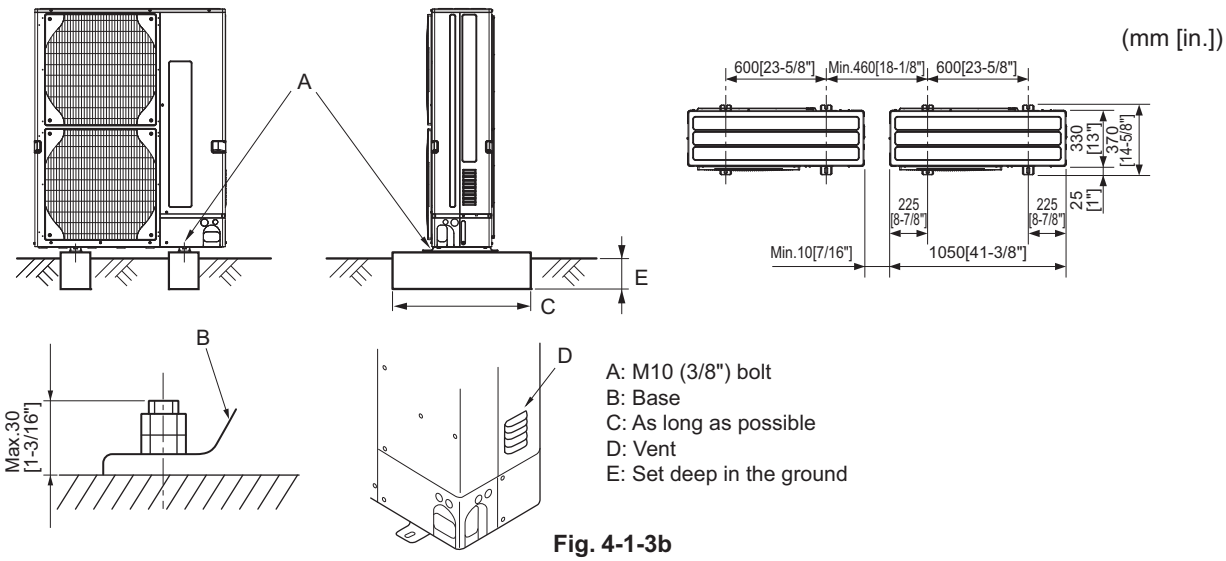
Fig. 4-1-3a

<PUMY-P200,250YKMC-C>

Installing the outdoor unit
•Do not block the vent. If the vent is blocked, operation will be hindered and breakdown may result.
•In addition to the unit base, use the installation holes on the back of the unit to attach wires, etc., if necessary to install the unit. Use self-tapping screws (ø5 × 15 mm or more) and install on site.

⚠ Warning:
•The unit must be securely installed on a structure that can sustain its weight. If the unit is mounted on an unstable structure, it may fall down and cause damage or injuries.
•The unit must be installed according to the instructions in order to minimize the risk of damage from earthquakes, typhoons, or strong winds. An incorrectly installed unit may fall down and cause damage or injuries.

(mm [in.])



A: M10 (3/8") bolt
B: Base
C: As long as possible
D: Vent
E: Set deep in the ground

Fig. 4-1-3b

4-2. Spacing

External dimension (Fig.4-2-1a,b)

mm[in.]

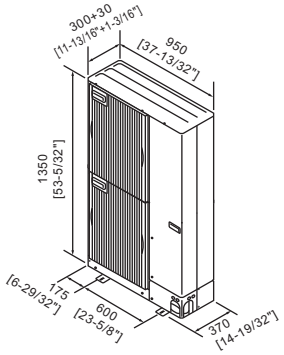


Fig. 4-2-1a PUMY-P-YHMC-C/VHMC-S dimension

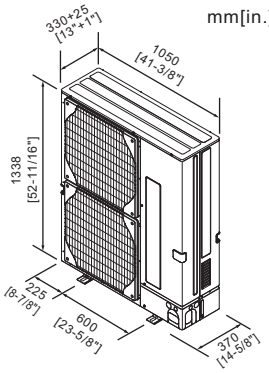


Fig. 4-2-1b PUMY-P-YKMC-C dimension

PUMY-P-YHMC-C/VHMC-S/YKMC-C can connect Indoor unit sized P15 to P140 ; and can connect totally 1-12 Indoor units with total capacity ranged 50%-130% of the outdoor unit capacity.

Connectable Indoor capacity		Connectable Indoor unit
PUMY-P100YHMC-C/VHMC-S	5.6 - 14.6kW	P15-P125, 1-8 units
PUMY-P125YHMC-C/VHMC-S	7.1 - 18.2kW	P15-P140, 1-10 units
PUMY-P140YHMC-C/VHMC-S	8.0 - 20.2kW	P15-P140, 1-12 units
PUMY-P200YKMC-C	11.2 - 29.1kW	P15-P140, 1-12 units
PUMY-P250YKMC-C	12.5 - 32.5kW	P15-P140, 1-12 units

4-2-1. Spacing individual PUMY-P-YHMC-C/VHMC-S/YKMC-C

Follow Fig. 4-2-2 ~ 7 to space individual PUMY-P-YHMC-C/VHMC-S/YKMC-C at the installation site.

mm[in.]

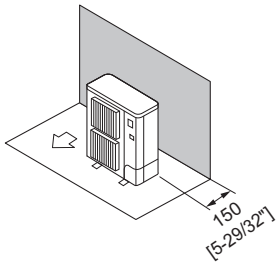


Fig. 4-2-2
Obstacles at rear only

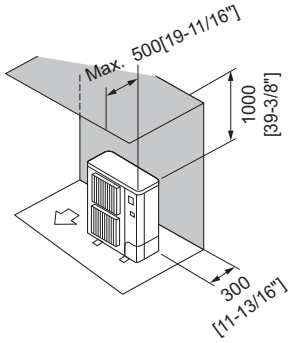


Fig. 4-2-3
Obstacles at rear and above only

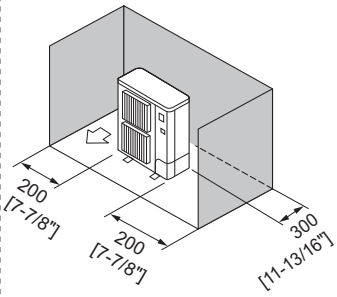
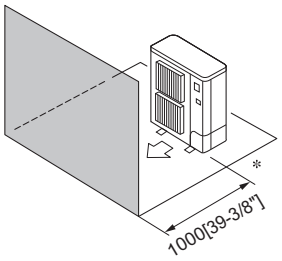
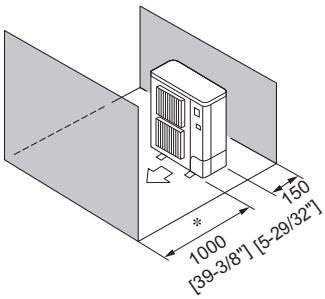


Fig. 4-2-4
Obstacles at rear and sides only



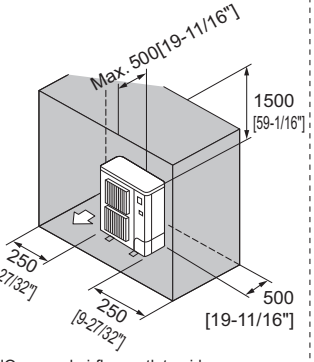
* Using an optional air outlet guide, the clearance >= 500 mm [19-11/16"].

Fig. 4-2-5
Obstacles at front only



* Using an optional air outlet guide, the clearance >= 500 mm [19-11/16"].

Fig. 4-2-6
Obstacles at front and rear only



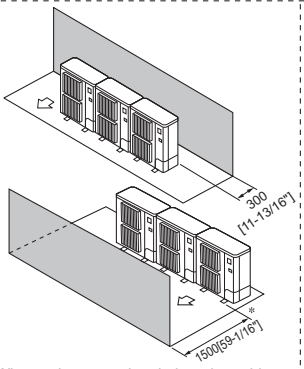
* NO upward airflow outlet guide.

Fig. 4-2-7
Obstacles at rear, sides and above only

4-2-2. Spacing grouped PUMY-P-YHMC-C/VHMC-S/YKMC-C

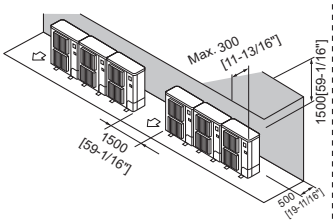
Follow Fig. 4-2-8 ~ 13 to space grouped PUMY-P-YHMC-C/VHMC-S/YKMC-C at the installation site.
Leave 10 mm [13/32"] space or more between PUMY-P-YHMC-C/VHMC-S/YKMC-C units.

mm[in.]



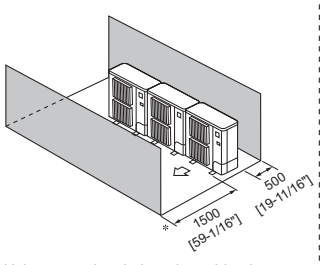
* When using an optional air outlet guide, the clearance is 1000 mm [39-3/8"] or more.

Fig. 4-2-8
Obstacles at rear or front only



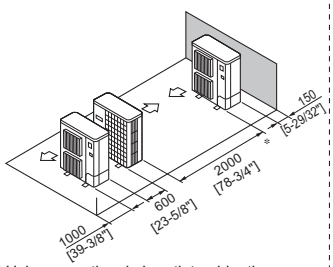
* In case of side-by-side installation, <=3 units;
* Do not install the optional air outlet guides for upward airflow.

Fig. 4-2-9
Obstacles at rear and above only



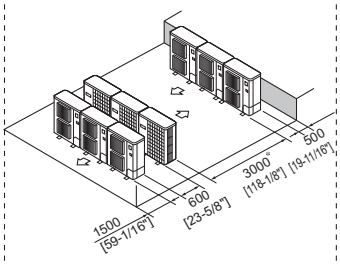
* Using an optional air outlet guide, the clearance >= 1000 mm [39-3/8"].

Fig. 4-2-10
Obstacles at front and rear only



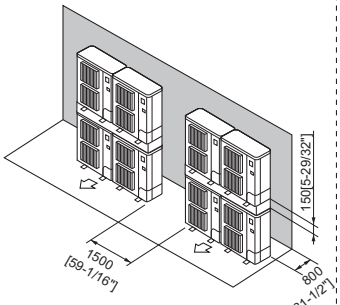
* Using an optional air outlet guide, the clearance >= 1000 mm [39-3/8"].

Fig. 4-2-11
Parallel individuals arrangement



* Using an optional air outlet guide for upward airflow, the clearance >= 1500 mm [59-1/16"].

Fig. 4-2-12
Parallel groups arrangement

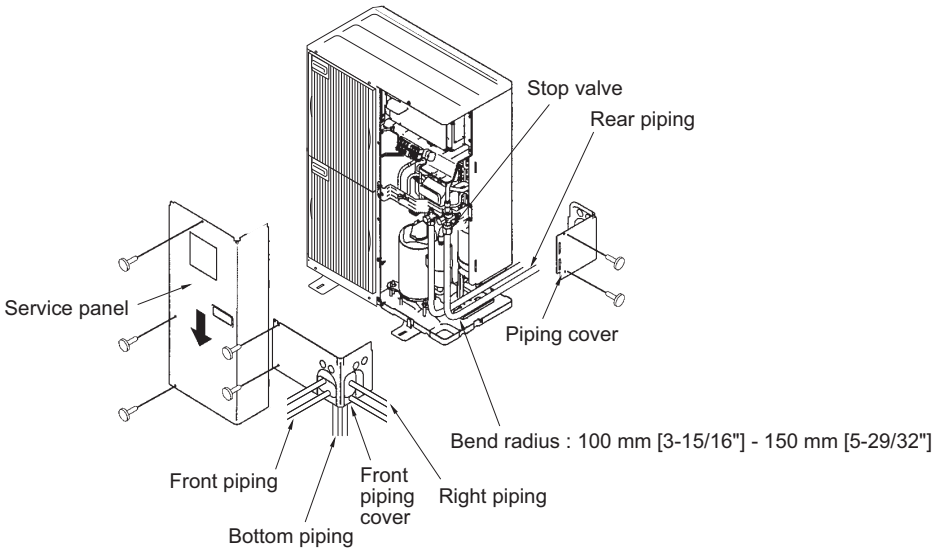


* Stacked layer <= 2 units;
* Side-by-side stacked groups <= 2 groups;

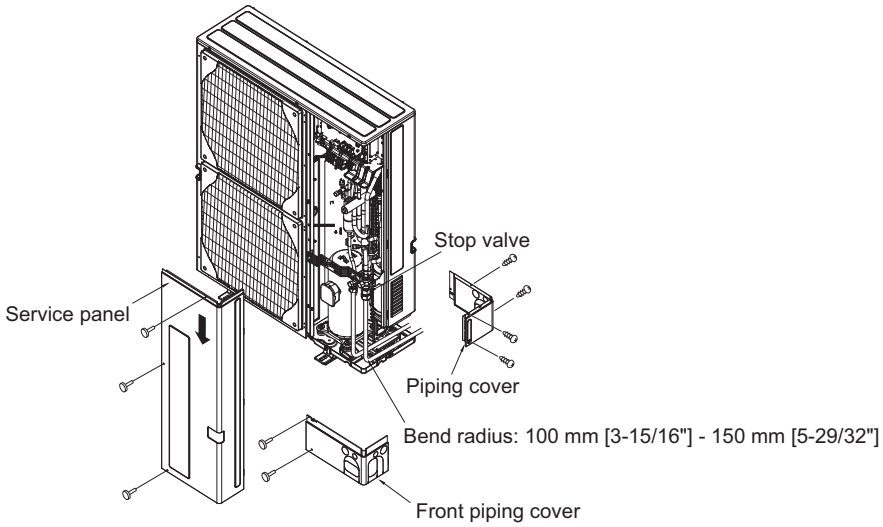
Fig. 4-2-13
Stacked groups arrangement

4-3. Piping direction

4-3-1. PUMY-P100,125,140YHMC-C/VHMC-S



4-3-2. PUMY-P200,250YKMC-C



5-1. General precautions

5-1-1. Usage

- The air-conditioning system described in this Data Book is designed for human comfort.
- This product is not designed for preservation of food, animals, plants, precision equipment, or art objects. To prevent quality loss, do not use the product for purposes other than what it is designed for.
- To reduce the risk of water leakage and electric shock, do not use the product for air-conditioning vehicles or vessels.

5-1-2. Installation environment

- Do not install any unit other than the dedicated unit in a place where the voltage changes a lot, large amounts of mineral oil (e.g., cutting oil) are present, cooking oil may splash, or a large quantity of steam can be generated such as a kitchen.
- Do not install the unit in acidic or alkaline environment.
- Installation should not be performed in the locations exposed to chlorine or other corrosive gases. Avoid near a sewer.
- To reduce the risk of fire, do not install the unit in a place where flammable gas may be leaked or inflammable material is present.
- This air conditioning unit has a built-in microcomputer. Take the noise effects into consideration when deciding the installation position. Especially in a place where antenna or electronic device are installed, it is recommended that the air conditioning unit be installed away from them.
- Install the unit on a solid foundation according to the local safety measures against typhoons, wind gusts, and earthquakes to prevent the unit from being damaged, toppling over, and falling.

5-1-3. Backup system

- In a place where air conditioner's malfunctions may exert crucial influence, it is recommended to have two or more systems of single outdoor units with multiple indoor units.

5-1-4. Unit characteristics

- Heat pump efficiency depends on outdoor temperature. In the heating mode, performance drops as the outside air temperature drops. In cold climates, performance can be poor. Warm air would continue to be trapped near the ceiling and the floor level would continue to stay cold. In this case, heat pumps require a supplemental heating system or air circulator. Before purchasing them, consult your local distributor for selecting the unit and system.
- When the outdoor temperature is low and the humidity is high, the heat exchanger on the outdoor unit side tends to collect frost, which reduces its heating performance. To remove the frost, Auto-defrost function will be activated and the heating mode will temporarily stop for 3-10 minutes. Heating mode will automatically resume upon completion of defrost process.
- Air conditioner with a heat pump requires time to warm up the whole room after the heating operation begins, because the system circulates warm air in order to warm up the whole room.
- The sound levels were obtained in an anechoic room. The sound levels during actual operation are usually higher than the simulated values due to ambient noise and echoes. Refer to the section on "SOUND LEVELS" for the measurement location.
- The total capacity of the connected indoor units can be greater than the capacity of the outdoor unit. However, when the connected indoor units operate simultaneously, each unit's capacity may become smaller than the rated capacity.
- When the unit is started up for the first time within 12 hours after power on or after power failure, it performs initial startup operation (capacity control operation) to prevent damage to the compressor. The initial startup operation requires 90 minutes maximum to complete, depending on the operation load.

5-1-5. Relevant equipment

- Use an earth leakage breaker (ELB) with medium sensitivity, and an activation speed of 0.1 second or less.
- Consult your local distributor or a qualified technician when installing an earth leakage breaker.
- If the unit is inverter type, select an earth leakage breaker for handling high harmonic waves and surges.
- Leakage current is generated not only through the air conditioning unit but also through the power wires. Therefore, the leakage current of the main power supply is greater than the total leakage current of each unit. Take into consideration the capacity of the earth leakage breaker or leakage alarm when installing one at the main power supply. To measure the leakage current simply on site, use a measurement tool equipped with a filter, and clamp all the four power wires together. The leakage current measured on the ground wire may not accurate because the leakage current from other systems may be included to the measurement value.
- Do not install a phase advancing capacitor on the unit connected to the same power system with an inverter type unit and its equipment.
- If a large current flows due to the product malfunctions or faulty wiring, both the earth leakage breaker on the product side and the upstream overcurrent breaker may trip almost at the same time. Separate the power system or coordinate all the breakers depending on the system's priority level.

5-1-6. Unit installation

- Your local distributor or a qualified technician must read the Installation Manual that is provided with each unit carefully before performing installation work.
- Consult your local distributor or a qualified technician when installing the unit. Improper installation by an unqualified person may result in water leakage, electric shock, or fire.
- Ensure there is enough space around each unit.

5-1-7. Optional accessories

- Only use accessories recommended by Mitsubishi Electric. Consult your local distributor or a qualified technician when installing them. Improper installation by an unqualified person may result in water leakage, electric leakage, system breakdown, or fire.
- Some optional accessories may not be compatible with the air conditioning unit to be used or may not suitable for the installation conditions. Check the compatibility when considering any accessories.
- Note that some optional accessories may affect the air conditioner's external form, appearance, weight, operating sound, and other characteristics.

5-1-8. Operation/Maintenance

- Read the Instruction Book that is provided with each unit carefully prior to use.
- Maintenance or cleaning of each unit may be risky and require expertise. Read the Instruction Book to ensure safety. Consult your local distributor or a qualified technician when special expertise is required such as when the indoor unit needs to be cleaned.

5-2. Precautions for Indoor unit

5-2-1. Operating environment

- The refrigerant (R410A) used for air conditioner is non-toxic and nonflammable. However, if the refrigerant leaks, the oxygen level may drop to harmful levels. If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit even if the refrigerant should leak.
- If the units operate in the cooling mode at the humidity above 80%, condensation may collect and drip from the indoor units.

5-2-2. Unit characteristics

- The return air temperature display on the remote controller may differ from the ones on the other thermometers.
- The clock on the remote controller may be displayed with a time lag of approximately one minute every month.
- The temperature using a built-in temperature sensor on the remote controller may differ from the actual room temperature due to the effect of the wall temperature.
- Use a built-in thermostat on the remote controller or a separately-sold thermostat when indoor units installed on or in the ceiling operate the automatic cooling/heating switchover.
- The room temperature may rise drastically due to Thermo OFF in the places where the air conditioning load is large such as computer rooms.
- Be sure to use a regular filter. If an irregular filter is installed, the unit may not operate properly, and the operation noise may increase.
- The room temperature may rise over the preset temperature in the environment where the heating air conditioning load is small.

5-2-3. Unit installation

- For simultaneous cooling/heating operation type air conditioners (R2, WR2 series), the G-type Refrigerant Distributor cannot be connected to the 16HP outdoor unit model or above, and the G- and GA-type Refrigerant Distributors cannot be connected to the 28HP model or above. The GB- and HB-type Refrigerant Distributors (sub) cannot be connected to the outdoor unit directly, and be sure to use them with GA- and HA-type Refrigerant Distributors (main).
- The insulation for low pressure pipe between the Refrigerant Distributor and outdoor unit shall be at least 20 mm thick. If the unit is installed on the top floor or in a high-temperature, high-humidity environment, thicker insulation may be necessary.
- Do not have any branching points on the downstream of the refrigerant pipe header.
- When a field-supplied external thermistor is installed or when a device for the demand control is used, abnormal stop of the unit or damage of the electromagnetic contactor may occur. Consult your local distributor for details.
- When indoor units operate a fresh air intake, install a filter in the duct (field-supplied) to remove the dust from the air.
- The 4-way or 2-way Airflow Ceiling Cassette Type units that have an outside air inlet can be connected to the duct, but need a booster fan to be installed at site. Refer to the chapter "Indoor Unit" for the available range for fresh air intake volume.
- Operating fresh air intake on the indoor unit may increase the sound pressure level.

5-3. Precautions for Fresh air intake type indoor unit

5-3-1. Usage

- This unit mainly handles the outside air load, and is not designed to maintain the room temperature. Install other air conditioners for handling the air conditioning load in the room.

5-3-2. Unit characteristics

- This unit cannot perform the drying operation. The unit will continue the fan operation and blow fresh air (air that is not air-conditioned) when the Heating Thermo-OFF or Cooling Thermo-OFF mode is selected.
- The fan may stop tentatively when the unit is connected to the simultaneous cooling/heating operation type outdoor unit (R2, WR2 series) or during the defrost cycle.
- This unit switches the Thermo ON or OFF depending on the room temperature. The outside air is directly supplied into the room during Thermo OFF. Take caution of the cold supply air due to low outside air temperature and of condensation in the room due to high humidity of the outside air.
- Outside air temperature ranges for the operation must be as follows:
  Cooling: 21ºCD.B./15.5ºCW.B. ~ 43ºCD.B./35ºCW.B.
  Heating: -10ºCD.B.~ 20ºCD.B
  The unit is forced to operate Thermo OFF (fan operation) when the outside air temperature is as follows.
  Cooling: 21ºCD.B or below; Heating: 20ºCD.B or above
- Either a remote controller (sold separately) or a remote sensor (sold separately) must be installed to monitor the room temperature.
- If only this unit is used as an indoor unit, condensation may form at the supply air grill while the unit is operated in the cooling mode. This unit cannot operate dehumidifying.
- Use the unit in the way that the airflow rate will not exceed the 110% of the rated airflow.

5-4. Precautions for Outdoor unit/Heat source unit

5-4-1. Installation environment

- Outdoor unit with salt-resistant specification is recommended to use in a place where it is subject to salt air.
- Even when the unit with salt-resistant specification is used, it is not completely protected against corrosion. Be sure to follow the directions or precautions described in Instructions Book and Installation Manual for installation and maintenance. The salt-resistant specification is referred to the guidelines published by JRAIA (JRA9002).
- Install the unit in a place where the flow of discharge air is not obstructed. If not, the short-cycling of discharge air may occur.
- Provide proper drainage around the unit base, because the condensation may collect and drip from the outdoor units. Provide water-proof protection to the floor when installing the units on the rooftop.
- In a region where snowfall is expected, install the unit so that the outlet faces away from the direction of the wind, and install a snow guard to protect the unit from snow. Install the unit on a base approximately 50 cm higher than the expected snowfall. Close the openings for pipes and wiring, because the ingress of water and small animals may cause equipment damage. If SUS snow guard is used, refer to the Installation Manual that comes with the snow guard and take caution for the installation to avoid the risk of corrosion.
- When the unit is expected to operate continuously for a long period of time at outside air temperatures of below 0ºC, take appropriate measures, such as the use of a unit base heater, to prevent icing on the unit base. (Not applicable to the PUMY series)
- Install the snow guard so that the outlet/inlet faces away from the direction of the wind.
- When the snow accumulates approximately 50 cm or more on the snow guard, remove the snow from the guard. Install a roof that is strong enough to withstand snow loads in a place where snow accumulates.
- Provide proper protection around the outdoor units in places such as schools to avoid the risk of injury.
- A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere. When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.
- Install a strainer (50 mesh or more recommended) on the water pipe inlet on the heat source unit.
- Interlock the heat source unit and water circuit pump.
- Note the followings to prevent the freeze bursting of pipe when the heat source unit is installed in a place where the ambient temperature can be 0ºC or below.
  - Keep the water circulating to prevent it from freezing when the ambient temperature is 0ºC or below.
  - Before a long period of non use, be sure to purge the water out of the unit.

5-4-2. Circulating water

- Follow the guidelines published by JRAIA (JRA-GL02-1994) to check the water quality of the water in the heat source unit regularly.
- A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere. When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.

5-4-3. Unit characteristics

- When the Thermo ON and OFF is frequently repeated on the indoor unit, the operation status of outdoor units may become unstable.

5-4-4. Relevant equipment

- Provide grounding in accordance with the local regulations.

5-5. Precautions for Control-related items

5-5-1. Product specification

- To introduce the MELANS system, a consultation with us is required in advance. Especially to introduce the electricity charge apportioning function or energy-save function, further detailed consultation is required. Consult your local distributor for details.
- Billing calculation for AG-150A, GB-50ADA, TG-2000A, or the billing calculation unit is unique and based on our original method. (Backup operation is included.) It is not based on the metering method, and do not use it for official business purposes. It is not the method that the amount of electric power consumption (input) by air conditioner is calculated. Note that the electric power consumption by air conditioner is apportioned by using the ratio corresponding to the operation status (output) for each air conditioner (indoor unit) in this method.
- In the apportioned billing function for AG-150A and GB-50ADA, use separate watthour meters for A-control units, K-control units, and packaged air conditioner for City Multi air conditioners. It is recommended to use an individual watthour meter for the large-capacity indoor unit (with two or more addresses).
- When using the peak cut function on the AG-150A or GB-50ADA, note that the control is performed once every minute and it takes time to obtain the effect of the control. Take appropriate measures such as lowering the criterion value. Power consumption may exceed the limits if AG-150A or GB-50ADA malfunctions or stops. Provide a back-up remedy as necessary.
- The controllers cannot operate while the indoor unit is OFF. (No error)
  Turn ON the power to the indoor unit when operating the controllers.
- When using the interlocked control function on the AG-150A, GB-50ADA, PAC-YG66DCA, or PAC-YG63MCA, do not use it for the control for the fire prevention or security. (This function should never be used in the way that would put people's lives at risk.) Provide any methods or circuit that allow ON/OFF operation using an external switch in case of failure.

5-5-2. Installation environment

- The surge protection for the transmission line may be required in areas where lightning strikes frequently occur.
- A receiver for a wireless remote controller may not work properly due to the effect of general lighting. Leave a space of at least 1 m between the general lighting and receiver.
- When the Auto-elevating panel is used and the operation is made by using a wired remote controller, install the wired remote controller to the place where all air conditioners controlled (at least the bottom part of them) can be seen from the wired remote controller. If not, the descending panel may cause damage or injury, and be sure to use a wireless remote controller designed for use with elevating panel (sold separately).
- Install the wired remote controller (switch box) to the place where the following conditions are met.
  - Where installation surface is flat
  - Where the remote controller can detect an accurate room temperature
    The temperature sensors that detect a room temperature are installed both on the remote controller and indoor unit. When a room temperature is detected using the sensor on the remote controller, the main remote controller is used to detect a room temperature. In this case, follow the instructions below.
    - Install the controller in a place where it is not subject to the heat source.
      (If the remote controller faces direct sunlight or supply air flow direction, the remote controller cannot detect an accurate room temperature.)
    - Install the controller in a place where an average room temperature can be detected.
    - Install the controller in a place where no other wires are present around the temperature sensor.
      (If other wires are present, the remote controller cannot detect an accurate room temperature.)
- To prevent unauthorized access, always use a security device such as a VPN router when connecting AG-150A, GB-50ADA, or TG-2000A to the Internet.

6. Caution for refrigerant leakage

The installer and/or air conditioning system specialist shall secure safety against refrigerant leakage according to local regulations or standards. The following standard may be applicable if no local regulation or standard is available.

6-1. Refrigerant property

R410A refrigerant is harmless and incombustible. The R410A is heavier than the indoor air in density. Leakage of the refrigerant in a room has possibility to lead to a hypoxia situation. Therefore, the Critial concentration specified below shall not be exceeded even if the leakage happens.

- **Critical concentration**

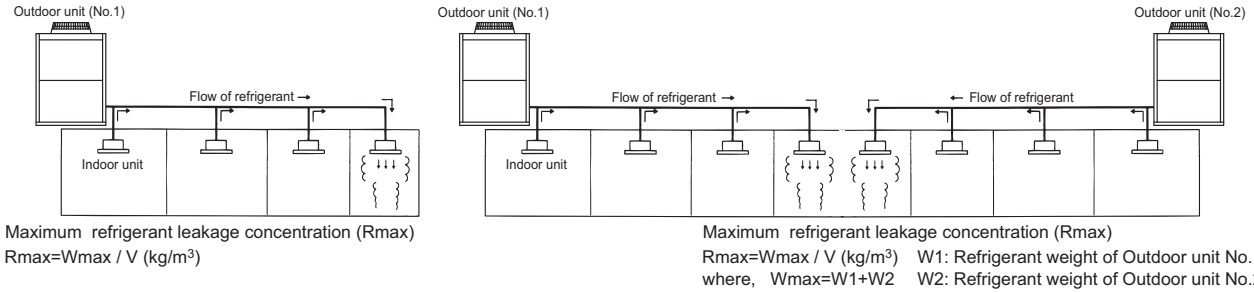
Critical concentration hereby is the refrigerant concentration in which no human body would be hurt if immediate measures can be taken when refrigerant leakage happens.

Critical concentration of R410A: 0.44kg/m^3
(The weight of refrigeration gas per 1 m^3 air conditioning space.);
* The Critical concentration is subject to ISO5149, EN378-1.

For the CITY MULTI system, the concentration of refrigerant leaked should not have a chance to exceed the Critical concentration in any situntion.

6-2. Confirm the Critical concentration and take countermeasure

The maximum refrigerant leakage concentration (Rmax) is defined as the result of the possible maximum refrigerant weight (Wmax) leaked into a room divided by its room capacity (V). It is referable to Fig.6-1. The refrigerant of Outdoor unit here includes its original charge and additional charge at the site.
The additional charge is calculated according to "**3-3 .Refrigerant charging calculation**" and shall not be over charged at the site.
Procedure 6-2-1~3 tells how to confirm maximum refrigerant leakage concentration (Rmax) and how to take countermeasures against a possible leakage.



Maximum refrigerant leakage concentration (Rmax)
Rmax=Wmax / V (kg/m^3)

Maximum refrigerant leakage concentration (Rmax)
Rmax=Wmax / V (kg/m^3) W1: Refrigerant weight of Outdoor unit No.1
where, Wmax=W1+W2 W2: Refrigerant weight of Outdoor unit No.2

Fig. 6-1 The maximum refrigerant leakage concentration

6-2-1.Find the room capacity (V),
If a room having total opening area more than 0.15% of the floor area at a low position with another room/space, the two rooms/space are considered as one.The total space shall be added up.

6-2-2.Find the possible maximum leakage (Wmax) in the room.If a room has Indoor unit(s) from more than 1 Outdoor unit, add up the refrigerant of the Outdoor units.

6-2-3.Divide (Wmax) by (V) to get the maximum refrigerant leakage concentration (Rmax).

6-2-4.Find if there is any room in which the maximum refrigerant leakage concentration (Rmax) is over 0.44kg/m^3.
If no, then the CITY MULTI is safe against refrigerant leakage.
If yes, following countermeasure is recommended to do at site.
Countermeasure 1:Let-out (making V bigger)
Design an opening of more than 0.15% of the floor area at a low position of the wall to let out the refrigerant whenever leaked.
e.g.make the upper and lower seams of door big enough.
Countermeasure 2:Smaller total charge (making Wmax smaller)
e.g.Avoid connecting more than 1 Outdoor unit to one room.
e.g.Using smaller model size but more Outdoor units.
e.g.Shorten the refrigerant piping as much as possible.
Countermeasure 3:Fresh air in from the ceiling (Ventilation)
As the density of the refrigerant is bigger than that of the air.Fresh air supply from the ceiling is better than air exhausting from the ceiling.
Fresh air supply solution refers to Fig.6-2~4.

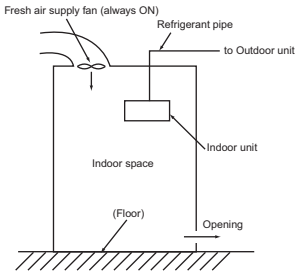


Fig.6-2.Fresh air supply always ON

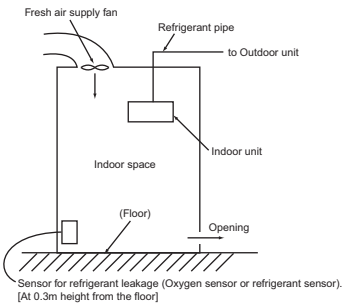


Fig.6-3.Fresh air supply upon sensor action

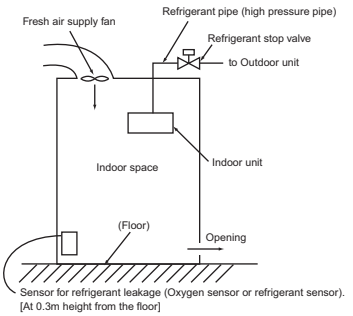


Fig.6-4.Fresh air supply and refrigerant shut-off upon sensor action

Note 1.Countermeasure 3 should be done in a proper way in which the fresh air supply shall be on whenever the leakage happens.
Note 2.In principle, MITSUBISHI ELECTRIC requires proper piping design, installation and air-tight testing after installation to avoid leakage happening.
In the area should earthquake happen, anti-vibration measures should be fully considered.
The piping should consider the extension due to the temperature variation.

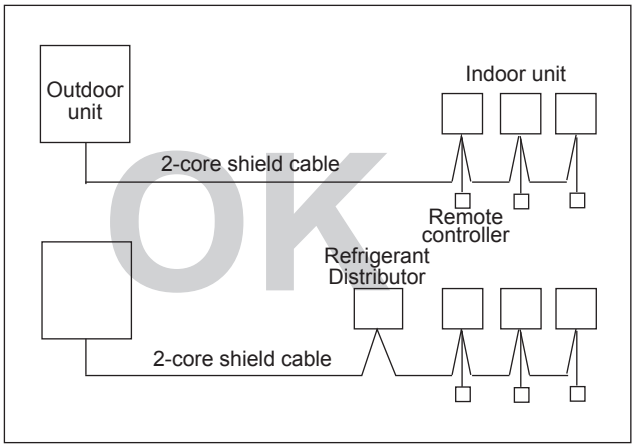
CITY MULTI
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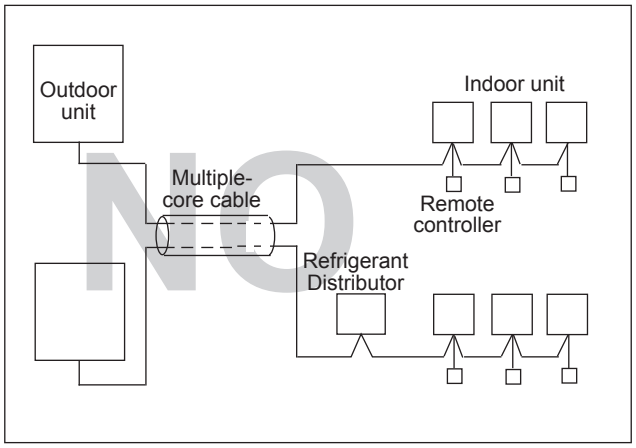
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1. Electrical work

1-1. General cautions

① Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations, and guidance of each electric power company.
② Wiring for control (hereinafter referred to as transmission cable) shall be (50mm[1-5/8in.] or more) apart from power source wiring so that it is not influenced by electric noise from power source wiring. (Do not insert transmission cable and power source wire in the same conduit.)
③ Be sure to provide designated grounding work to outdoor unit.
④ Give some allowance to wiring for electrical part box of indoor and outdoor units, because the box is sometimes removed at the time of service work.
⑤ Never connect 380~415V(220~240V) power source to terminal block of transmission cable. If connected,electrical parts will be damaged.
⑥ Use 2-core shield cable for transmission cable. If transmission cables of different systems are wired with the same multiple-core cable, the resultant poor transmitting and receiving will cause erroneous operations.
⑦ When extending the transmission cable, be sure to extend the shield wire.





1-2. Power supply for Indoor unit and Outdoor unit

1-2-1. Electrical characteristics of Indoor unit

Symbols: MCA : Max.Circuit Amps (=1.25xFLA) FLA : Full Load Amps
IFM :Indoor Fan Motor Output : Fan motor rated output

PMFY-P-VBM-EC	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PMFY-P20VBM-EC	220V / 50Hz	Max.: 242V Min.: 198V	0.25	0.028	0.20
PMFY-P25VBM-EC			0.26	0.028	0.21
PMFY-P32VBM-EC			0.26	0.028	0.21
PMFY-P40VBM-EC			0.33	0.028	0.26

PLFY-P-VBM-E-S	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PLFY-P32VBM-E-S	220V / 50Hz	Max.: 242V Min.: 198V	0.28	0.050	0.22
PLFY-P40VBM-E-S			0.36	0.050	0.29
PLFY-P50VBM-E-S			0.36	0.050	0.29
PLFY-P63VBM-E-S			0.45	0.050	0.36
PLFY-P80VBM-E-S			0.64	0.050	0.51
PLFY-P100VBM-E-S			1.25	0.120	1.00
PLFY-P125VBM-E-S			1.34	0.120	1.07

PEFY-P-VMS-E-S	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PEFY-P15VMS-E-S	220V / 50Hz	Max.: 242V Min.: 198V	0.46	0.096	0.37
PEFY-P20VMS-E-S			0.54	0.096	0.43
PEFY-P22VMS-E-S			0.65	0.096	0.52
PEFY-P25VMS-E-S			0.65	0.096	0.52
PEFY-P28VMS-E-S			0.65	0.096	0.52
PEFY-P32VMS-E-S			0.65	0.096	0.52
PEFY-P36VMS-E-S			0.68	0.096	0.54
PEFY-P40VMS-E-S			0.68	0.096	0.54
PEFY-P45VMS-E-S			1.05	0.096	0.84
PEFY-P50VMS-E-S			1.05	0.096	0.84
PEFY-P56VMS-E-S			1.25	0.096	1.00
PEFY-P63VMS-E-S			1.25	0.096	1.00

PEFY-P-VMM-E-S	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PEFY-P20VMM-E-S	220-240V / 50Hz	Max.: 264V Min.: 198V	0.69	0.120	0.55
PEFY-P25VMM-E-S			0.69	0.120	0.55
PEFY-P32VMM-E-S			0.69	0.120	0.55
PEFY-P40VMM-E-S			0.75	0.130	0.60
PEFY-P50VMM-E-S			0.80	0.140	0.64
PEFY-P63VMM-E-S			0.86	0.150	0.69
PEFY-P71VMM-E-S			1.26	0.220	1.01
PEFY-P80VMM-E-S			1.26	0.220	1.01
PEFY-P100VMM-E-S			2.06	0.360	1.65
PEFY-P125VMM-E-S			2.64	0.460	2.11

Symbols: MCA : Max.Circuit Amps (=1.25xFLA) FLA : Full Load Amps
IFM :Indoor Fan Motor Output : Fan motor rated output

PEFY-P-VMA-E-S	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PEFY-P20VMA-E-S	220V / 50Hz	Max.: 242V Min.: 198V	0.92	0.085	0.74
PEFY-P25VMA-E-S			0.92	0.085	0.74
PEFY-P32VMA-E-S			1.07	0.085	0.86
PEFY-P40VMA-E-S			1.32	0.085	1.06
PEFY-P50VMA-E-S			1.40	0.121	1.12
PEFY-P63VMA-E-S			2.08	0.121	1.67
PEFY-P71VMA-E-S			2.32	0.121	1.86
PEFY-P80VMA-E-S			2.36	0.121	1.89
PEFY-P100VMA-E-S			3.19	0.244	2.55
PEFY-P125VMA-E-S			3.27	0.244	2.62
PEFY-P140VMA-E-S			3.17	0.244	2.53

PKFY-P-VBM-EC	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PKFY-P15VBM-EC	220V / 50Hz	Max.: 242V Min.: 198V	0.25	0.017	0.20
PKFY-P20VBM-EC			0.25	0.017	0.20
PKFY-P25VBM-EC			0.25	0.017	0.20

PKFY-P-VHM-EC	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PKFY-P32VHM-EC	220V / 50Hz	Max.: 242V Min.: 198V	0.38	0.030	0.30
PKFY-P40VHM-EC			0.38	0.030	0.30
PKFY-P50VHM-EC			0.38	0.030	0.30

GUF-RDH3	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
GUF-50RDH3	220-240V / 50Hz 220V / 60Hz	Max.: 264V Min.: 198V	1.85 / 1.85	0.081x2	1.48 / 1.48

*GUF-RDH3 cannot be connected to PUMY models.

1-2-2. Electrical characteristics of Outdoor unit

Symbols: MCA : Max Circuit Amps
RLA : Rated Load Amps SC : Starting Current

PUHY-P-YRJC	Unit Combination	Units			Power supply	Compressor		FAN	RLA(A)(50/60Hz)	
		Hz	Volts	Voltage range	MCA(A)	Output (kW)	SC(A)	Output (kW)	Cooling	Heating
PUHY-P300YRJC-A	-	50/60	380 400 415	Max:456V Min:342V	21.88	8.2	8	0.35	15.6 / 14.8 / 14.2	13.2 / 12.5 / 12.1
PUHY-P350YRJC-A	-				27.03	10.3		0.35	17.3 / 16.5 / 15.9	16.3 / 15.5 / 15.0
PUHY-P400YRJC-A	-				32.03	10.5		0.46	20.0 / 19.0 / 18.3	22.7 / 21.6 / 20.8
PUHY-P450YRJC-A	-				39.33	12.0		0.46	24.2 / 22.9 / 22.1	26.7 / 25.4 / 24.5

1-3. Power cable specifications

Thickness of wire for main power supply, capacities of the switch and system impedance

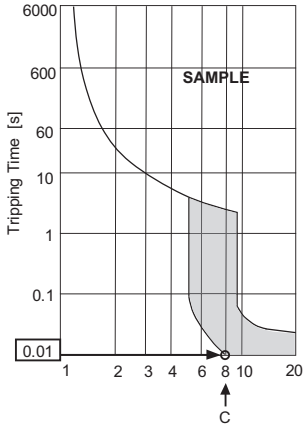
	Model	Minimum wire thickness (mm^2)			Ground-fault interrupter *1	Local swtich (A)		Breaker for wiring (A) (Non-fuse breaker)
		Main cable	Branch	Ground		Capacity	Fuse	
Outdoor unit	PUHY-P300YRJC	4.0	-	4.0	30A 100mA 0.1sec. or less	32	32	30
	PUHY-P350YRJC	6.0	-	6.0	40A 100mA 0.1sec. or less	40	40	40
	PUHY-P400YRJC	10.0	-	10.0	60A 100mA 0.1sec. or less	63	63	60
	PUHY-P450YRJC	10.0	-	10.0	60A 100mA 0.1sec. or less	63	63	60
Total operating current of the indoor unit	F0 = 16A or less *2	1.5	1.5	1.5	20A current sensitivity *3	16	16	20
	F0 = 25A or less *2	2.5	2.5	2.5	30A current sensitivity *3	25	25	30
	F0 = 32A or less *2	4.0	4.0	4.0	40A current sensitivity *3	32	32	40

*1 The Ground-fault interrupter should support Inverter circuit.
The Ground-fault interrupter should combine using of local switch or wiring breaker.

*2 Please take the larger of F1 or F2 as the value for F0.
F1 = Total operating maximum curent of the indoor units × 1.2
F2 = {V1 × (Quantity of Type1)/C} + {V1 × (Quantity of Type2)/C} + {V1 × (Quantity of Others)/C}

Indoor unit		V1	V2
Type1	PLFY-VBM, PMFY-VBM, PEFY-VMS, PKFY-VHM	18.6	2.4
Type2	PEFY-VMA	38	1.6
Others	Other indoor unit	0	0

C : Multiple of tripping current at tripping time 0.01s
Please pick up "C" from the tripping characteristic of the breaker.
<Example of "F2" calculation>
*Condition PEFY-VMS × 4 + PEFY-VMA × 1, C = 8 (refer to right sample chart)
F2 = 18.6 × 4/8 + 38 × 1/8
= 14.05
→16 A breaker (Tripping current = 8 × 16 A at 0.01s)



Sample chart

*3 Current sensitivity is calculated using the following formula.
G1 = (V2 × Quantity of Type1) + (V2 × Quantity of Type2) + (V2 × Quantity of Others) + (V3 × Wire length [km])

G1	Current sensitivity
30 or less	30 mA 0.1sec or less
100 or less	100 mA 0.1sec or less

Wire thickness	V3
1.5 mm^2	48
2.5 mm^2	56
4.0 mm^2	66

1. Use dedicated power supplies for the outdoor unit and indoor unit. Ensure OC and OS are wired individually.
2. Bear in mind ambient conditions (ambient temperature,direct sunlight, rain water,etc.) when proceeding with the wiring and connections.
3. The wire size is the minimum value for metal conduit wiring. If the voltage drops, use a wire that is one rank thicker in diameter. Make sure the power-supply voltage does not drop more than 10%.
4. Specific wiring requirements should adhere to the wiring regulations of the region.
5. Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 245 IEC57). For example, use wiring such as YZW.
6. A switch with at least 3 mm contact separation in each pole shall be provided by the Air Conditioner installer.

⚠WARNING

- Be sure to use specified wires for connections and ensure no external force is imparted to terminal connections. If connections are not fixed firmly, heating or fire may result.
- Be sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.

⚠CAUTION

- Some installation sites may require attachment of an earth leakage breaker for the inverter. If no earth leakage breaker is installed, there is a danger of electric shock.
- Do not use anything other than a breaker and fuse with the correct capacity. Using a fuse or wire of too large capacity may cause malfunction or fire.

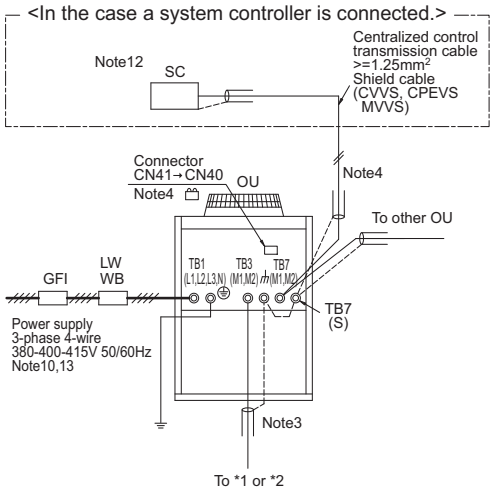
Note

- This device is intended for the connection to a power supply system with a maximum permissible system impedance shown in the above table at the interface point (power service box) of the user's supply.
- The user must ensure that this device is connected only to a power supply system which fulfils the requirement above.
If necessary, the user can ask the public power supply company for the system impedance at the interface point.

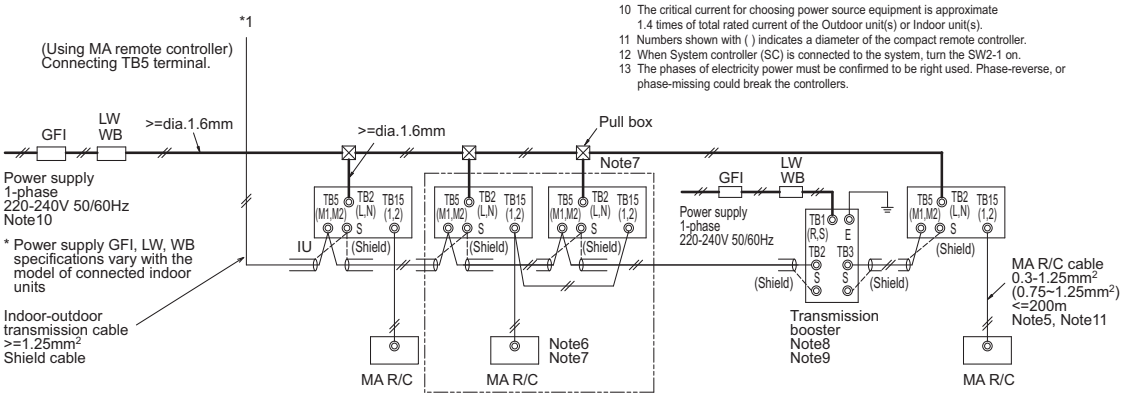
1-4. Power supply examples

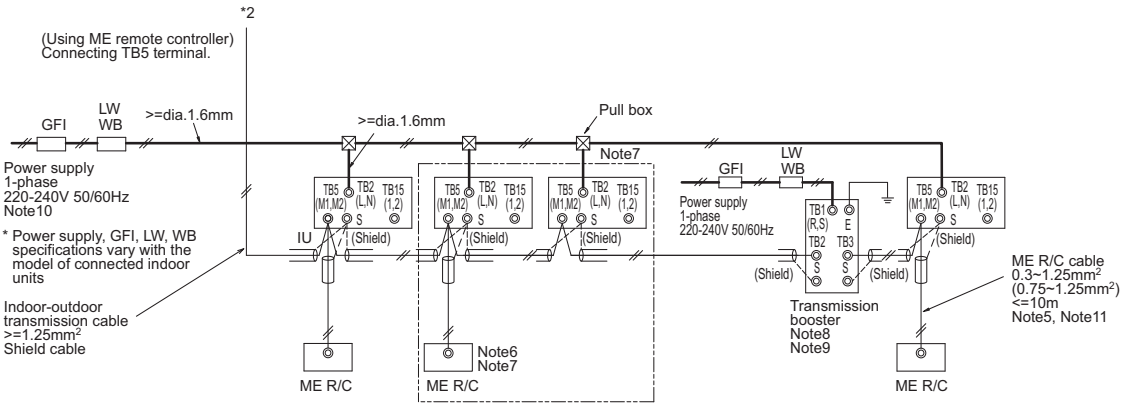
The local standards and/or regulations is applicable at a higher priority.

1-4-1. PUHY-P300-450YRJC-A



Note:
1 The transmission cable is not-polarity double-wire.
2 Symbol ◎ means a screw terminal for wiring.
3 The shield wire of transmission cable should be connected to the grounding terminal at Outdoor unit. All shield wire of M-Net transmission cable among Indoor units should be connected to the S terminal at Indoor unit or all shield wire should be connected together. The broken line at the scheme means shield wire.
4 When the Outdoor unit connected with system controller, power-supply to TB7 of the outdoor unit(s) is needed. The connector change from CN41 to CN40 at one of the outdoor units will enable the outdoor unit to supply power to TB7, or an extra power supplying unit PAC-SC51KUA should be used. The transmission cable (above 1.25mm², shielded, CVVS/CPEVS/MVVS) among Outdoor units and system controllers is called centralized control transmission cable. The shield wire of the centralized control transmission cable must be grounded at the Outdoor unit whose CN41 is changed to CN40. When the power supplying unit PAC-SC51KUA is used, connect the shielded cable to the ground terminal on the PAC-SC51KUA.
5 MA R/C transmission cable (0.3-1.25mm²) must be less than 200m in length, while ME R/C transmission cable (0.3-1.25mm²) must be less than 10m in length. But transmission cable to the ME R/C can be extend using a M-NET cable (>=1.25mm²) when the length is counted in the M-Net length. Both Compact MA and ME R/C transmission cables size 0.75~1.25mm² in thickness.
6 MA remote controller and ME remote controller should not be grouped together. When a PAR-30MAAC is connected to a group, no other MA remote controllers can be connected to the same group.
7 If using 1 or 2 (main/sub) MA remote controller to control more than 1 Indoor unit, use MA transmission cable to connect all the TB15 terminals of the Indoor units. It is called "Grouping".
If using 1 or 2 (main/sub) ME remote controller control more than 1 indoor unit, set address to Indoor unit and ME remote controller. For the method, refer to 2-4. "Address setting".
8 Indoor board consumes power from TB3. The power balance should be considered according to System Design 2-3 "System configuration restrictions".
9 If Transmission booster is needed, be sure to connect the shield wires to the both sides to the booster.
10 The critical current for choosing power source equipment is approximate 1.4 times of total rated current of the Outdoor unit(s) or Indoor unit(s).
11 Numbers shown with ( ) indicates a diameter of the compact remote controller.
12 When System controller (SC) is connected to the system, turn the SW2-1 on.
13 The phases of electricity power must be confirmed to be right used. Phase-reverse, or phase-missing could break the controllers.





Symbol	
GFI	Ground-fault interrupter
LW	Local switch
BKC	Breaker capacity
OCP	Over-current protector
WB	Wiring breaker
NFB	Non-fuse breaker
OU	Outdoor unit
IU	Indoor unit
SC	System controller
MA R/C	MA remote controller
ME R/C	ME remote controller

Model	Ground-fault interrupter *1, *2, *4	Local switch		Wiring breaker	Minimum Wire thickness	
		BKC <A>	OCP*3, *4 <A>	(NFB) *4 <A>	Power wire <mm²>	Earth wire <mm²>
PUHY-P300	30A 100mA 0.1sec. or less	32	32	30	4	4
PUHY-P350	40A 100mA 0.1sec. or less	40	40	40	6	6
PUHY-P400	60A 100mA 0.1sec. or less	63	63	60	10	10
PUHY-P450	60A 100mA 0.1sec. or less	63	63	60	10	10

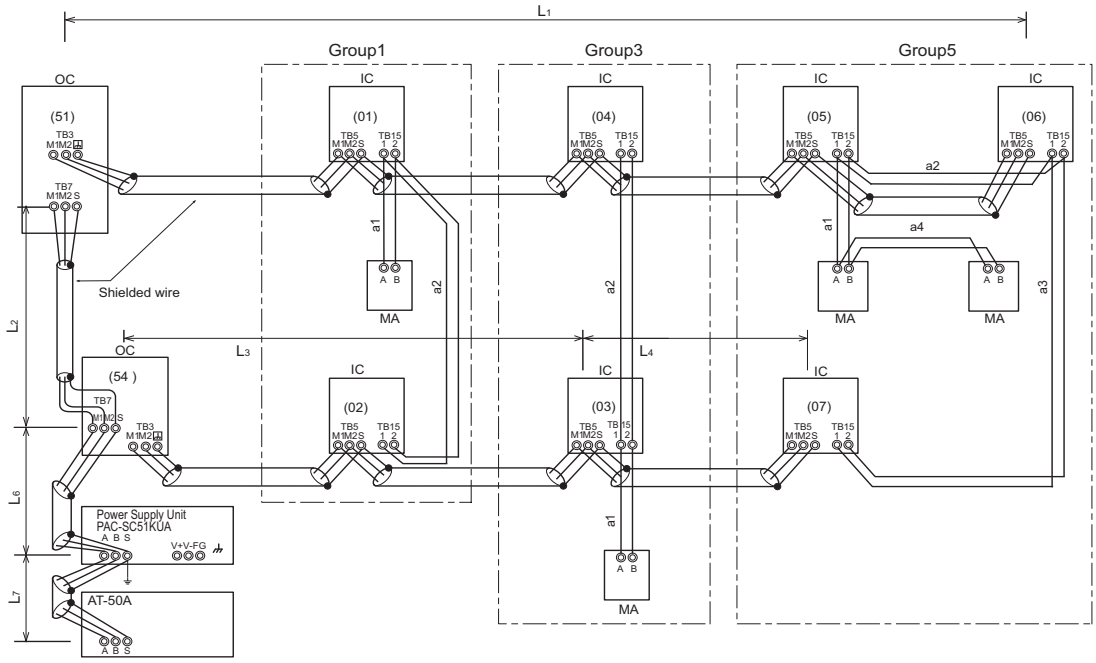
*1 The Ground-fault interrupter should support Inverter circuit. (e.g. Mitsubishi Electric's NV-C series or equivalent).
*2 Ground-fault interrupter should combine using of local switch or wiring breaker.
*3 It shows data for B-type fuse of the breaker for current leakage.
*4 If a large electric current flows due to malfunction or faulty wiring, earth-leakage breakers on the unit side and on the centralized controller side may both operate.
Depending on the importance of the system, separate the power supply system or take protective coordination of breakers.

2-1. Transmission cable length limitation

2-1-1. Using MA Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

Max. length via Outdoor (M-NET cable)	L1+L2+L3+L4, L1+L2+L6+L7, L3+L4+L6+L7	<=500m[1640ft.]	1.25mm^2 [AWG16] or thicker
Max. length to Outdoor (M-NET cable)	L1, L3+L4, L6, L2+L6, L7	<=200m[656ft.]	1.25mm^2 [AWG16] or thicker
Max. length from MA to Indoor	a1+a2, a1+a2+a3+a4	<=200m[656ft.]	0.3-1.25 mm^2 [AWG22-16]



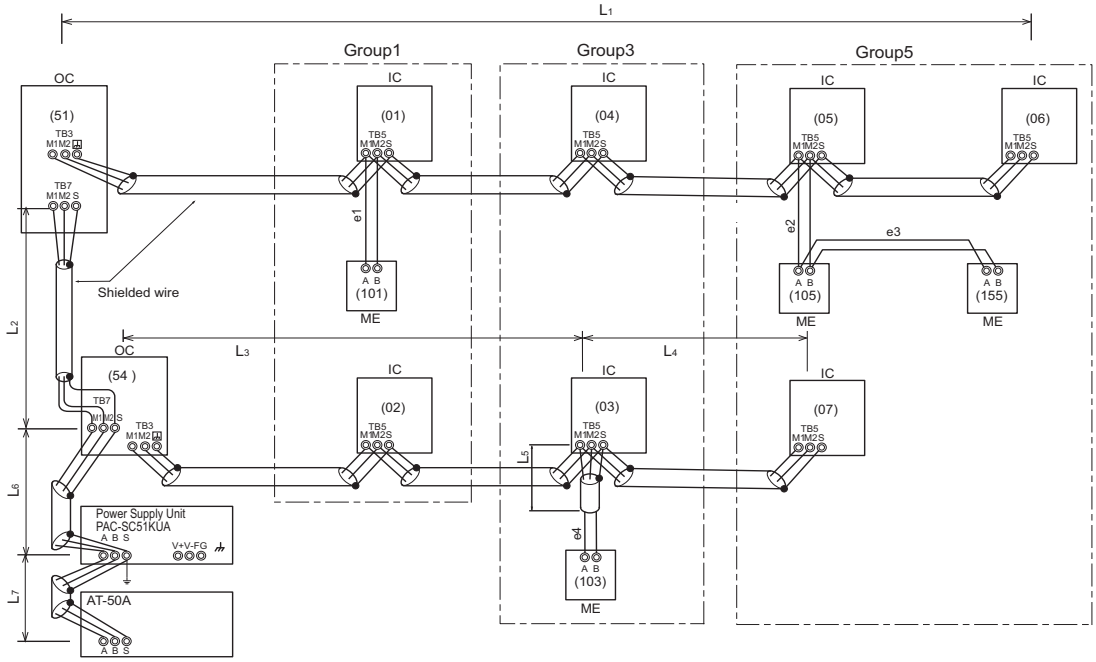
OC: Outdoor unit controller; IC: Indoor unit controller; MA: MA remote controller

2-1-2. Using ME Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

Max. length via Outdoor (M-NET cable)	L1+L2+L3+L4, L1+L2+L6+L7,L1+L2+L3+L5, L3+L4+L6+L7	<=500m[1640ft.]	1.25mm^2 [AWG16] or thicker
Max. length to Outdoor (M-NET cable)	L1, L3+L4, L6, L2+L6, L7, L3+L5	<=200m[656ft.]	1.25mm^2 [AWG16] or thicker
Max. length from ME to Indoor	e1, e2+e3, e4	<=10m[32ft.]*1	0.3-1.25 mm^2 [AWG22-16] *1

*1. If the length from ME to Indoor exceed 10m, use 1.25 mm^2 [AWG16] shielded cable, but the total length should be counted into Max. length via Outdoor.



OC: Outdoor unit controller; IC: Indoor unit controller; ME: ME remote controller

2-2. Transmission cable specifications

	Transmission cables (Li)	ME Remote controller cables	MA Remote controller cables
Type of cable	Shielding wire (2-core) CVVS, CPEVS or MVVS	Sheathed 2-core cable (unshielded) CVV	
Cable size	More than 1.25mm² [AWG16]	0.3～1.25mm² [AWG22～16] (0.75～1.25mm² [AWG18~16])*1	0.3～1.25mm² [AWG22～16]*2 (0.75～1.25mm² [AWG18~16])*1
Remarks	—	When 10m [32ft] is exceeded, use cables with the same specification as transmission cables.	Max length : 200m [656ft] *3

*1 Connected with simple remote controller.
*2 To wire PAR-30MAAC, use a wire with a diameter of 0.3 mm² [AWG22]
*3 When a PAR-30MAAC is connected to a group, no other MA remote controllers can be connected to the same group.

CVVS, MVVS : PVC insulated PVC jacketed shielded control cable
CPEVS : PE insulated PVC jacketed shielded communication cable
CVV : PV insulated PVC sheathed control cable

2-3. System configuration restrictions

2-3-1. Common restrictions for the CITYMULTI system

For each Outdoor unit, the maximum connectable quantity of Indoor unit is specified at its Specifications table.

A) 1 Group of Indoor units can have 1-16 Indoor units;
*OA processing unit GUF-RDH is considered as Indoor unit.

B) Maximum 2 remote controllers for 1 Group;
*MA/ME remote controllers cannot be present together in 1group.
*When a PAR-30MAAC is connected to a group, no other MA remote controllers can be connected to the same group.

C) 1 LOSSNAY unit can interlock maximum 16 Indoor units; 1 Indoor unit can interlock only 1 LOSSNAY unit.

D) Maximum 3 System controllers are connectable when connecting to TB3 of the Outdoor unit.

E) Maximum 3 System controllers are connectable when connecting to TB7 of the Outdoor unit, if the transmission power is supplied by the Outdoor unit.

F) 4 System controllers or more are connectable when connecting to TB7 of the Outdoor unit, if the transmission power is supplied by the power supply unit PAC-SC51KUA. Details refer to 2-3-3-C.
*System controller connected as described in D) and E) would have a risk that the failure of connected Outdoor unit would stop power supply to the System controller.

2-3-2. Ensuring proper communication power for M-NET

In order to ensure proper communication among Outdoor unit, Indoor unit, LOSSNAY, and OA processing unit GUF-RDH, and Controllers, the transmission power situation for the M-NET should be observed. In some cases, Transmission booster should be used. Taking the power consumption of Indoor unit sized P15-P140 as 1, the equivalent power consumption or supply of others are listed at Table 2-3-1 and Table 2-3-2.

Table 2-3-1 The equivalent power consumption

Indoor, OA unit	Indoor unit	MA RC. LOSSNAY	ME Remote Contr.	System Contr.	ON/OFF Contr.	MN Converter	
Sized P15-P140 GUF-50	Sized P200,P250	PAR-30MAAC PAR-21MAA PAC-YT51CRB PAR-FA32MA LGH-RX-E	PAR-F27MEA PAC-SE51CRA PZ-52SF-E	AT-50A	PAC-YT40ANRA	CMS-MNF-B	CMS-MNG-E
1	7	0	1/4	4	1	1/2	2

*RC : Remote Controller

Table 2-3-2 The equivalent power supply

Transmission Booster	Power supply unit	BM ADAPTER	Outdoor unit	Outdoor unit
PAC-SF46EPA	PAC-SC51KUA	BAC-HD150	Connector TB3 and TB7 total *	Connector TB7 only
25	5	6	32	6

*If PAC-SC51KUA is used to supply power at TB7 side, no power supply need from Outdoor unit at TB7, Connector TB3 itself will therefore have 32. Not applicable to the PUMY model.

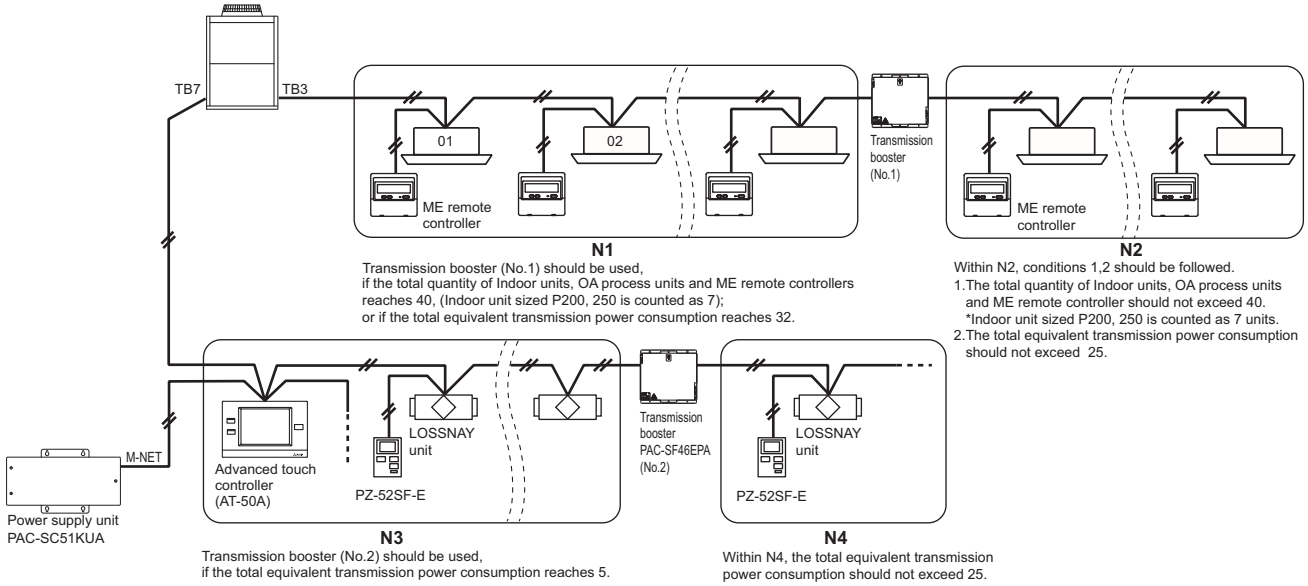
With the equivalent power consumption values in Table 2-3-1 and Table 2-3-2, PAC-SF46EPA can be designed into the air-conditioner system to ensure proper system communication according to 2-3-2-A, B, C.

2-3-2-A) Firstly, count from TB3 at TB3 side the total quantity of Indoor units, OA processing units, ME remote controller, and System controllers. If the total quantity reaches 40, a PAC-SF46EPA should be set. In this case, Indoor unit sized P200, 250 is counted as 7 Indoor units, but MA remote controller(s) and LOSSNAY are NOT counted.

2-3-2-B) Secondly, count from TB7 side to TB3 side the total transmission power consumption. If the total power consumption reaches 32, a PAC-SF46EPA should be set. Yet, if a PAC-SC51KUA is used to supply power at TB7 side, count from TB3 side only.

2-3-2-C) Thirdly, count from TB7 at TB7 side the total transmission power consumption, If the total power consumption reaches 6, a PAC-SF46EPA should be set.

■ System example



2-3-3. Ensuring proper power supply to System controller

The power to System controller (excluding LMAP02-E) is supplied via M-NET transmission line. M-NET transmission line at TB7 side is called Centralized control transmission line while one at TB3 side is called Indoor-Outdoor transmission line. There are 3 ways to supply power to the System controller .

A) Connecting to TB3 of the Outdoor unit and receiving power from the Outdoor unit.

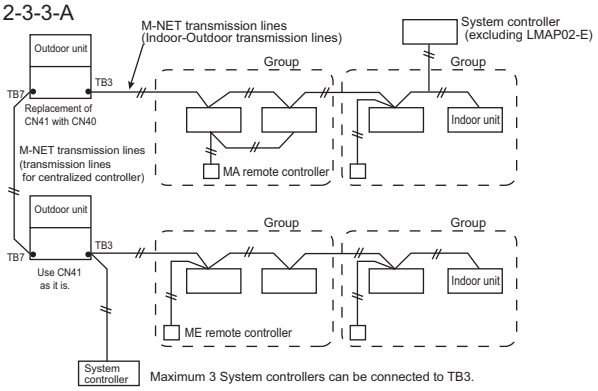
B) Connecting to TB7 of the Outdoor unit and receiving power from the Outdoor unit.

C) Connecting to TB7 of the Outdoor unit but receiving power from power supply unit PAC-SC51KUA.

2-3-3-A. When connecting to TB3 of the Outdoor unit and receiving power from the Outdoor unit.

Maximum 3 System controllers can be connected to TB3.
If there is more than 1 Outdoor unit, it is necessary to replace power supply switch connector CN41 with CN40 on one Outdoor unit.

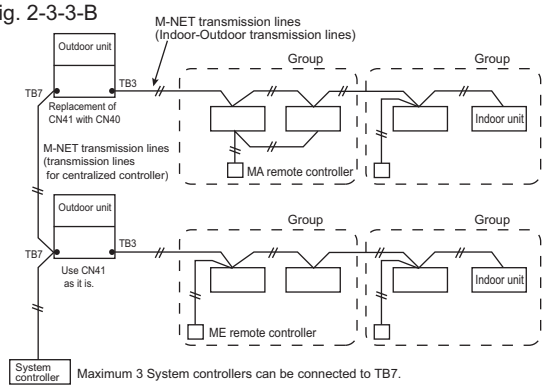
Fig. 2-3-3-A



2-3-3-B. When connecting to TB7 of the Outdoor unit and receiving power from the Outdoor unit.

Maximum 3 System controllers can be connected to TB7 and receiving power from the Outdoor unit.
It is necessary to replace power supply switch connector CN41 with CN40 on one Outdoor unit.

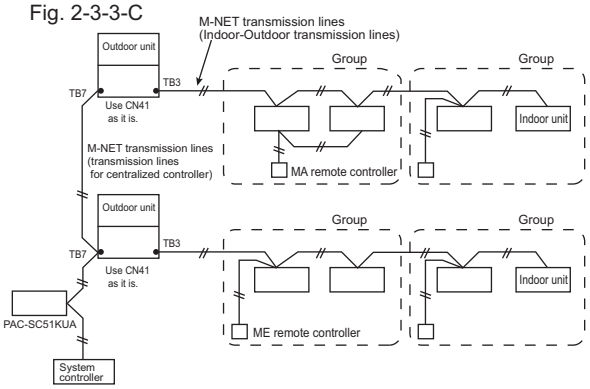
Fig. 2-3-3-B



2-3-3-C. When connecting to TB7 of the Outdoor unit but receiving power from PAC-SC51KUA.

When using PAC-SC51KUA to supply transmission power, the power supply connector CN41 on the Outdoor units should be kept as it is. It is also a factory setting. However, 1 PAC-SC51KUA supplies transmission power at its TB2 equal to 5 Indoor units, which is referable at Table 2-3-2.
If PZ-52SF-E, Timers, System controller, ON/OFF controller connected to TB7 consume transmission power more than 5 (Indoor units), Transmission booster PAC-SF46EPA is needed. PAC-SF46EPA supplies transmission power equal to 25 Indoor units.

Fig. 2-3-3-C



2-3-4. Power supply to LM adapter LMAP02-E

1-phase 220-240VAC power supply is needed.
The power supply unit PAC-SC51KUA is not necessary when connecting only the LMAP02-E. Yet, make sure to change the power supply changeover connector CN41 to CN40 on the LM adapter.

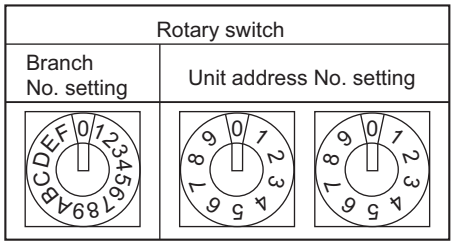
2-3-5. Power supply to BM ADAPTER

1-phase 100-240VAC power supply is needed.
The power supply unit PAC-SC51KUA is not necessary when only BM ADAPTER is connected.
Yet, make sure to move the power jumper from CN41 to CN40 on the BM ADAPTER.

2-4. Address setting

2-4-1. Switch operation

In order to constitute CITY MULTI in a complete system, switch operation for setting the unit address No. and connection No. is required.



① Address No. of outdoor unit, indoor unit and remote controller.
The address No. is set at the address setting board.

② Caution for switch operations

- Be sure to shut off power source before switch setting. If operated with power source on, switch can not operate properly.
- No units with identical unit address shall exist in one whole air conditioner system. If set erroneously, the system can not operate.

③ MA remote controller

- When connecting only one remote controller to one group, it is always the main remote controller. When connecting two remote controllers to one group, set one remote controller as the main remote controller and the other as the sub remote controller.
- The factory setting is "Main".

PAR-21MAA
The MA remote controller does not have the switches listed above.
Refer to the installation manual for the function setting.

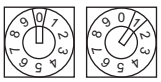
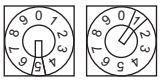
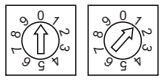
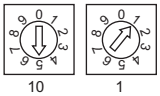
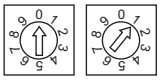
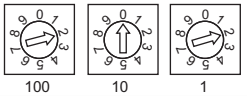
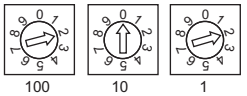
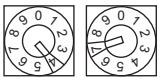
PAC-YT51CRB

Setting the dip switches

There are switches on the front of the remote controller. Remote controller Main/Sub and other function settings are performed using these switches. Ordinarily, only change the Main/Sub setting of SW1.
(The factory settings are all "ON".)

SW No	SW contents Main	ON	OFF	Comment
1	Remote controller Main/Sub setting	Main	Sub	Set one of the two remote controllers at one group to "Main"
2	Temperature display units setting	Celsius	Fahrenheit	When the temperature is displayed in [Fahrenheit], set to "No".
3	Cooling/heating display in AUTO mode	Yes	No	When you do not want to display "Cooling" and "Heating" in the Auto mode, set to "No".

2-4-2. Rule of setting address

Unit		Address setting	Example	Note
Indoor unit		01 ~ 50	 10 1	Use the most recent address within the same group of indoor units.
Outdoor unit		51 ~ 99, 100 (Note1)	 10 1	The smallest address of indoor unit in same refrigerant system + 50 Assign sequential address numbers to the outdoor units in one refrigerant circuit system. OC, OS1 and OS2 are automatically detected. (Note 2) ∗ Please reset one of them to an address between 51 and 99 when two addresses overlap. ∗ The address automatically becomes "100" if it is set as "01~ 50"
Local remote controller	ME, LOSSNAY Remote controller (Main)	101 ~ 150	1 Fixed  10 1	The smallest address of indoor unit in the group + 100 ∗ The place of "100" is fixed to "1"
	ME, LOSSNAY Remote controller (Sub)	151 ~ 199, 200	1 Fixed  10 1	The address of main remote controller + 50 ∗ The address automatically becomes "200" if it is set as "00"
System controller	Group remote controller	201 ~ 250	2 Fixed  10 1	The smallest group No. to be managed + 200
	System remote controller	000, 201 ~ 250	 100 10 1	
	ON/OFF remote controller	000, 201 ~ 250	 100 10 1	The smallest group No. to be managed + 200 ∗ The smallest group No. to be managed is changeable.
	AT-50A	000, 201 ~ 250	0,2 0~5 0~9 100 10 1	
	BAC-HD150	000, 201 ~ 250	0,2 0~5 0~9 100 10 1	∗ Settings are made with setting tool of BM ADAPTER.
	LMAP02-E	201 ~ 250	2 Fixed  10 1	

Note1: To set the address to "100", set it to "50"
Note2: Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected.
OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.

System Y

2-4-3. System examples

Factory setting

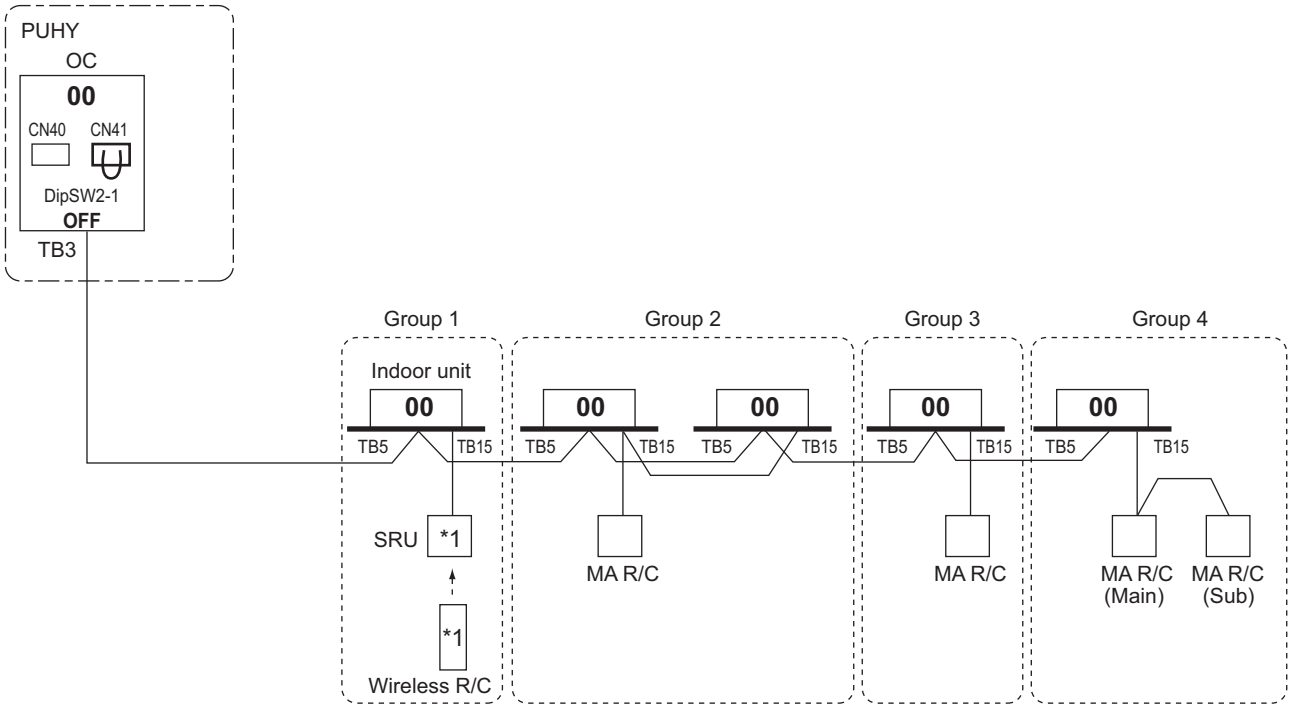
Original switch setting of the outdoors, indoors, controllers, LMAP and BM ADAPTER at shipment is as follows.

- Outdoor unit : Address: 00, CN41: U (Jumper), DipSW2-1: OFF
- Indoor unit : Address: 00
- ME remote controller : Address: 101
- LMAP : Address: 247, CN41: U (Jumper), DipSW1-2: OFF
- BM ADAPTER : Address: 00

Setting at the site

- DipSW2-1(Outdoor) : When the System Controller is used, all the Dip SW2-1 at the outdoor units should be set to "ON". * Dip SW2-1 remains OFF when only LMAP02-E is used.
- DipSW1-2(LMAP) : When the LMAP is used together with System Controller, DipSW1-2 at the LMAP should be set to "ON".
- CN40/CN41 : Change jumper from CN41 to CN 40 at outdoor control board will activate central transmission power supply to TB7;
  (Change jumper at only one outdoor unit when activating the transmission power supply without using a power supply unit.)
  Change jumper from CN41 to CN 40 at LMAP will activate transmission power supply to LMAP itself;
  Power supply unit is recommended to use for a system having more than 1 outdoor unit, because the central transmission power supply from TB7 of one of outdoor units is risking that the outdoor unit failure may let down the whole system controller system.

2-4-3-1. MA remote controller, Single-refrigerant-system, No System Controller



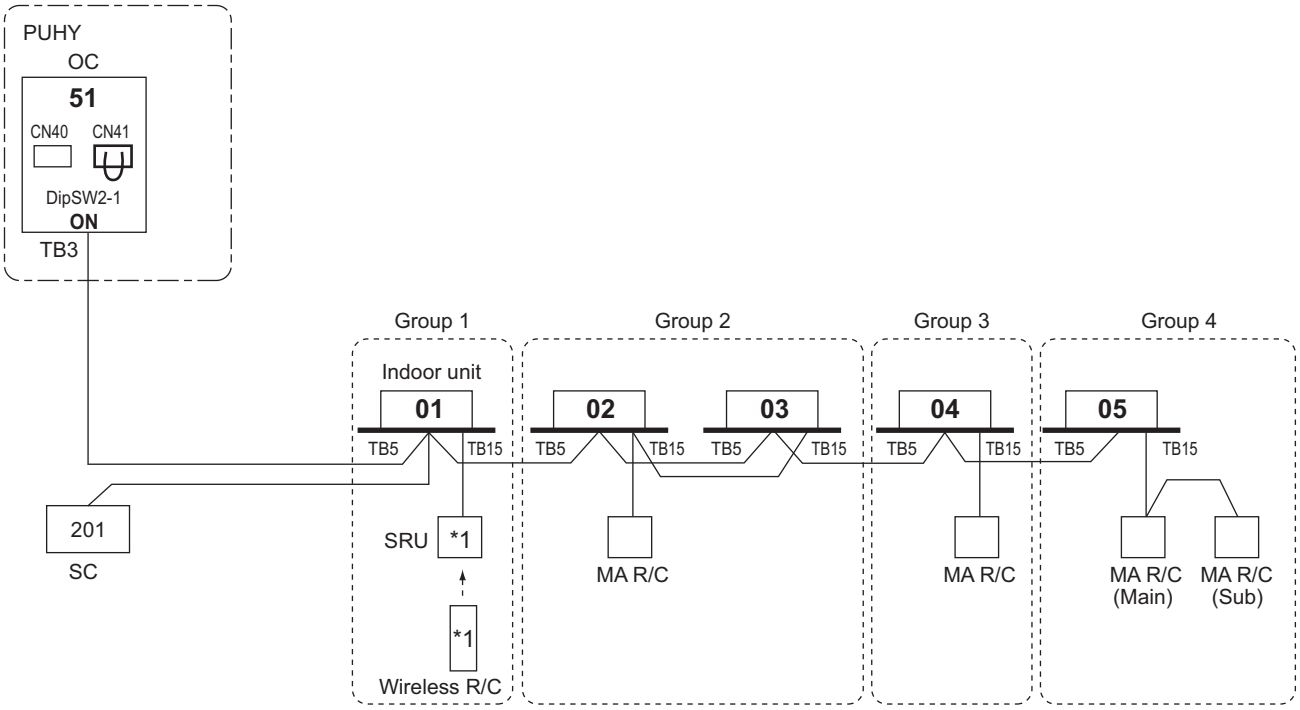
*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

NOTE:

1. No address setting is needed.
2. For a system having more than 32 indoor unit (P15-P140), confirm the need of Booster at **2-3 "System configuration restrictions".**
3. When a PAR-30MAAC is connected to a group, no other MA remote controllers can be connected to the same group.

2-4-3. System examples

2-4-3-2. MA remote controller, Single-refrigerant-system, System Controller



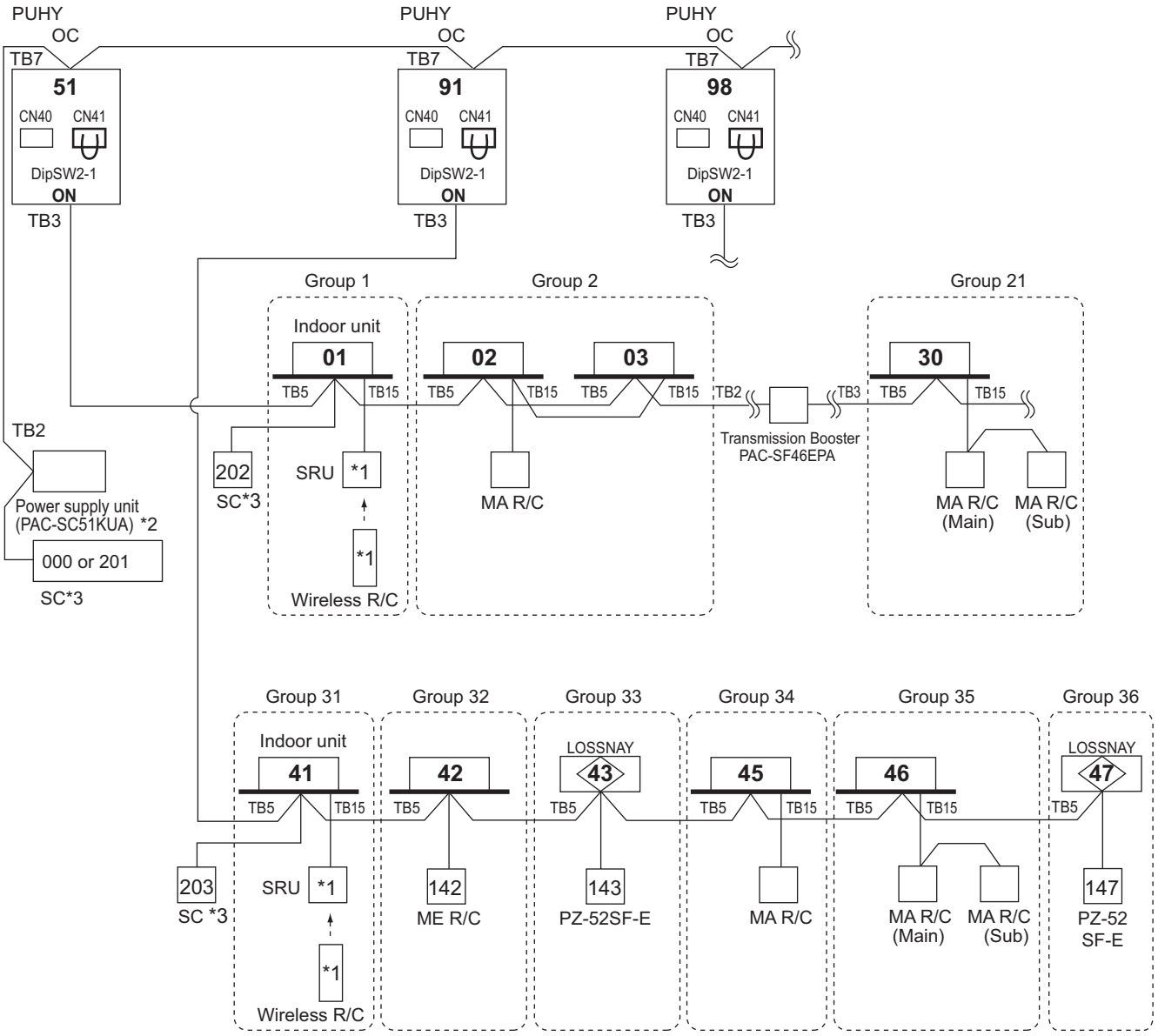
*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

*SC can be connected to TB3 side or TB7 side;
Should SC connected to TB7 side, change Jumper from CN41 to CN40 at the Outdoor unit module so as to supply power to the SC.

NOTE:
1. Address should be set to Indoor units and centralized controller.
2. For a system having more than 32 indoor unit (P15-P140), confirm the need of Booster at **2-3 "System configuration restrictions".**
3. When a PAR-30MAAC is connected to a group, no other MA remote controllers can be connected to the same group.

2-4-3. System examples

2-4-3-3. MA remote controller, Multi-refrigerant-system, System Controller at TB7/TB3 side, Booster for long M-NET wiring



*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

*2 System controller should connect to TB7 at Outdoor and use power supply unit together in Multi-Refrigerant-System.

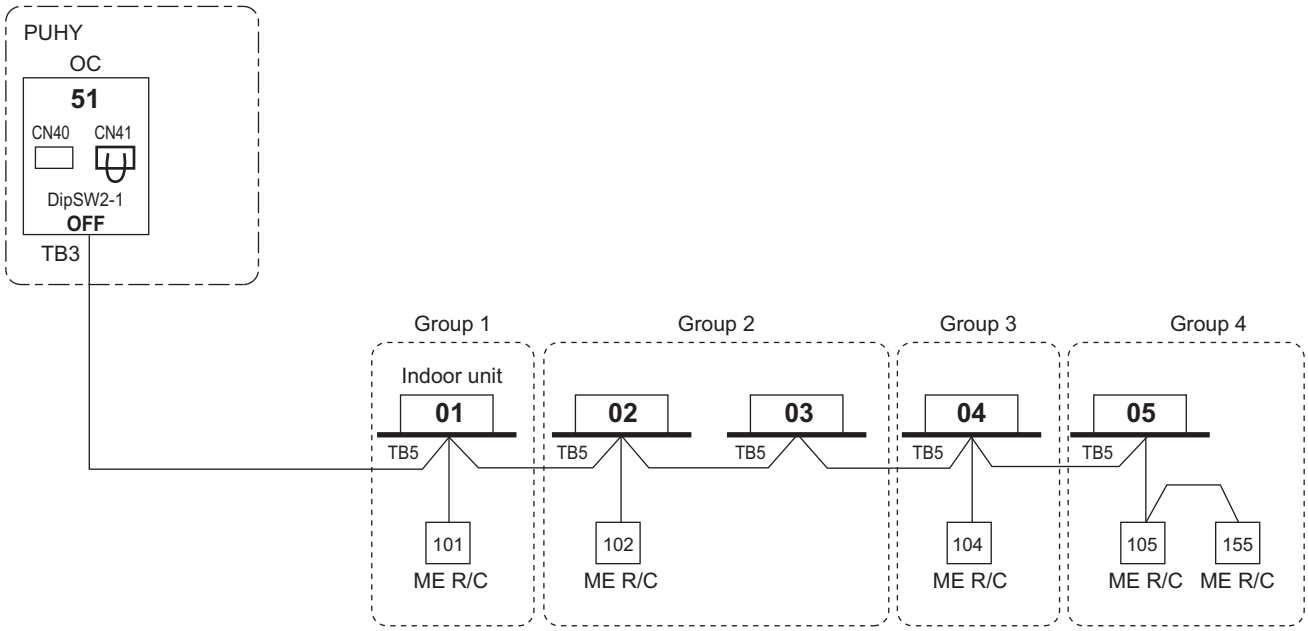
*3 When multiple system controllers are connected in the system, set the controller with more functions than others as a "main" controller and others as "sub".
Make the setting to only one of the system controllers for "prohibition of operation from local remote controller".

NOTE:

1. Address should be set to Indoor units, LOSSNAY and system controller.
2. M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME remote controller consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to **2-3 "System configuration restrictions".**
3. When a PAR-30MAAC is connected to a group, no other MA remote controllers can be connected to the same group.

2-4-3. System examples

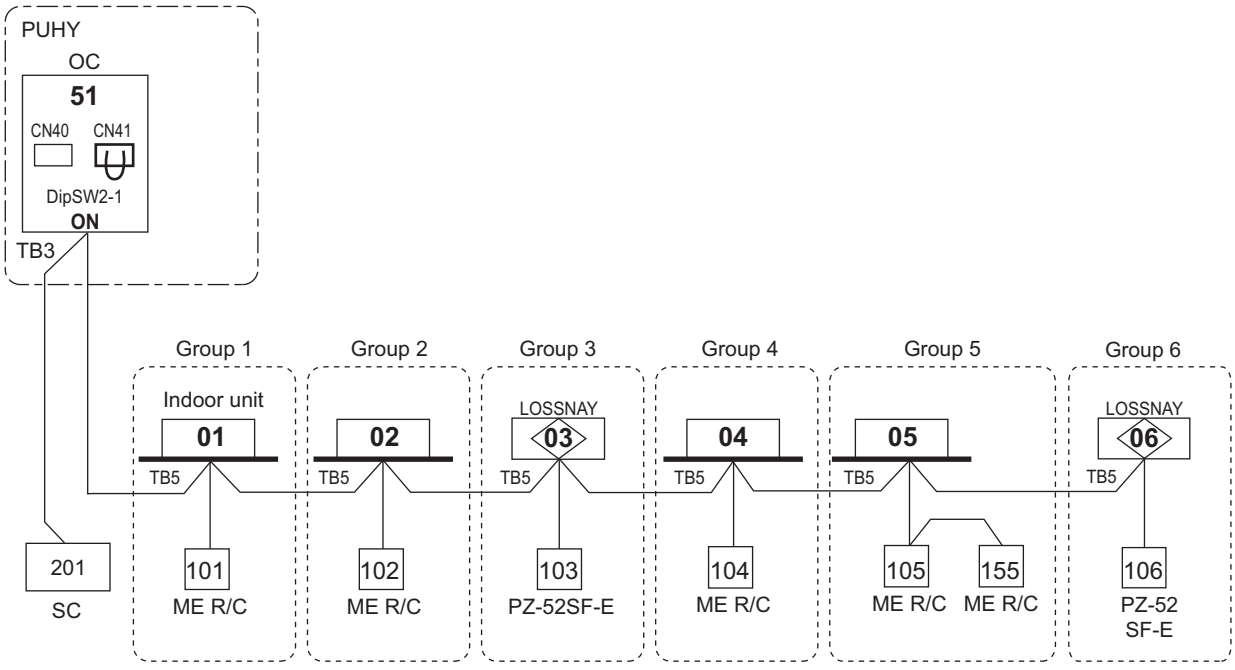
2-4-3-4. ME remote controller, Single-refrigerant-system, No system controller



NOTE:

1. Address should be set to Indoor units, system controller and ME remote controllers.
2. M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME RC consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to **2-3 "System configuration restrictions".**

2-4-3-5. ME remote controller, Single-refrigerant-system, System controller, LOSSNAY



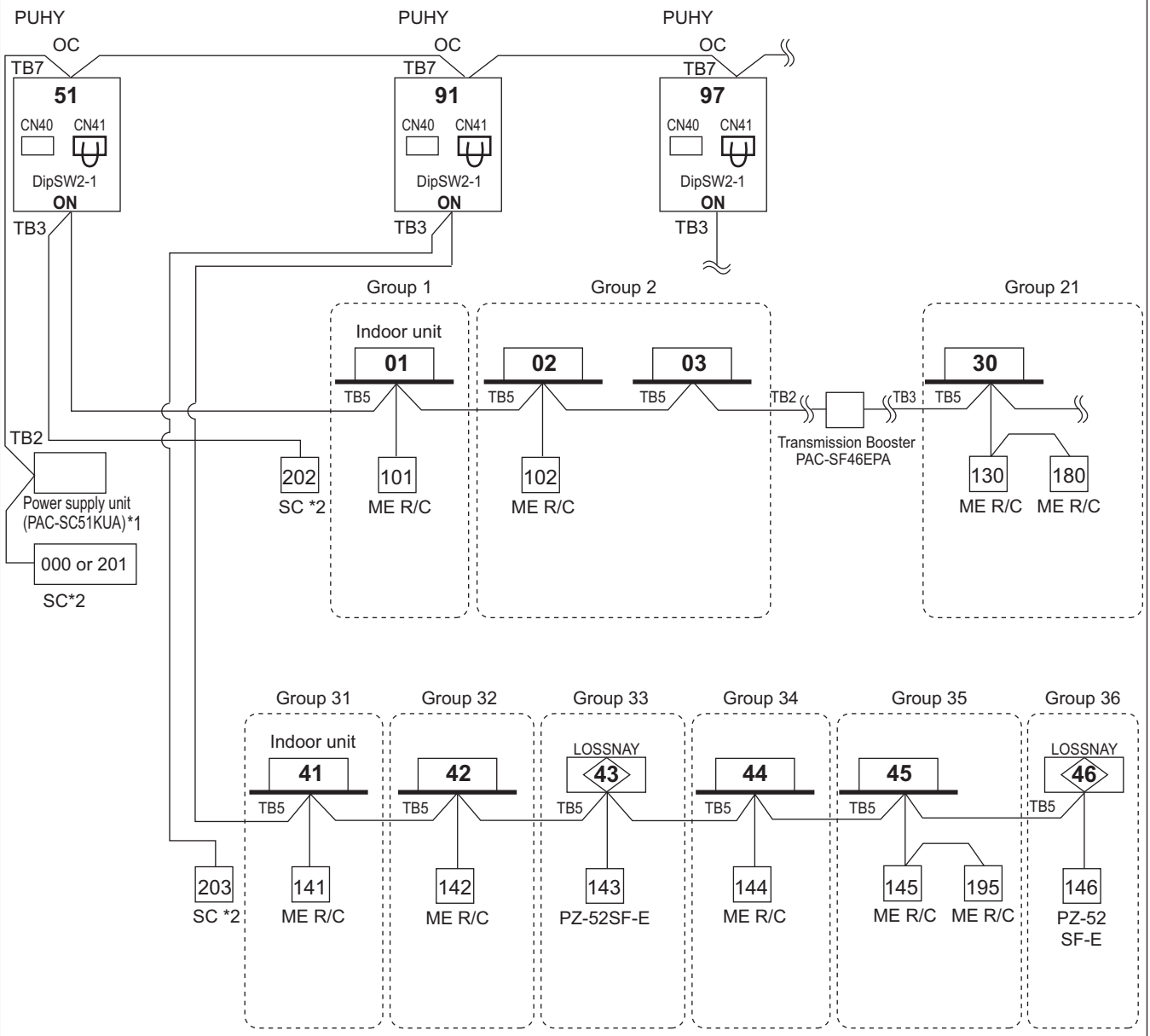
*SC can be connected to TB3 side or TB7 side;
Should SC connected to TB7 side, change Jumper from CN41 to CN40 at the Outdoor unit module so as to supply power to the SC.

NOTE:

1. Address should be set to Indoor units, LOSSNAY centralized controller, ME remote controllers.
2. For a system having more than 32 indoor unit (P15-P140), confirm the need of Booster at **2-3 "System configuration restrictions".**

2-4-3. System examples

2-4-3-6. ME remote controller, Multi-refrigerant-system, System Controller at TB7 side, LOSSNAY, Booster for long M-NET wiring



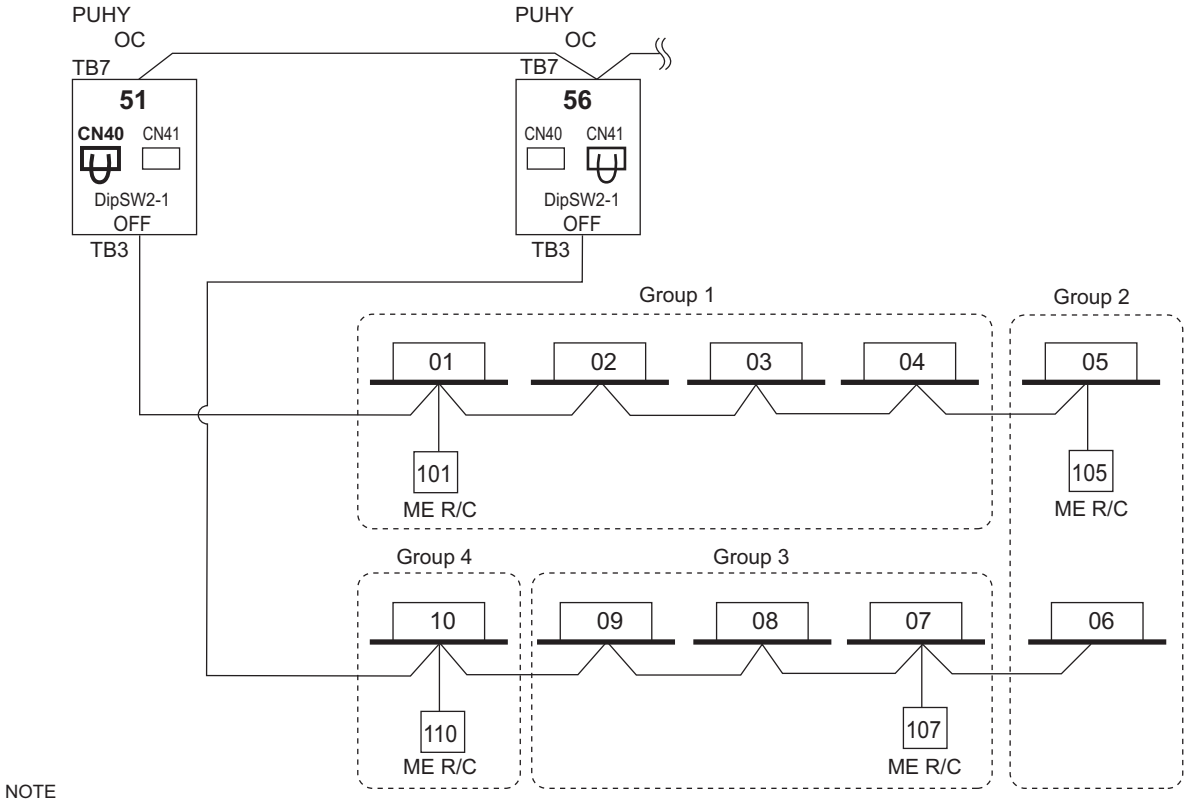
*1 System controller should connect to TB7 at Outdoor and use power supply unit together in Multi-Refrigerant-System.

*2 When multiple system controllers are connected in the system, set the controller with more functions than others as a "main" controller and others as "sub".
Make the setting to only one of the system controllers for "prohibition of operation from local remote controller".

NOTE:

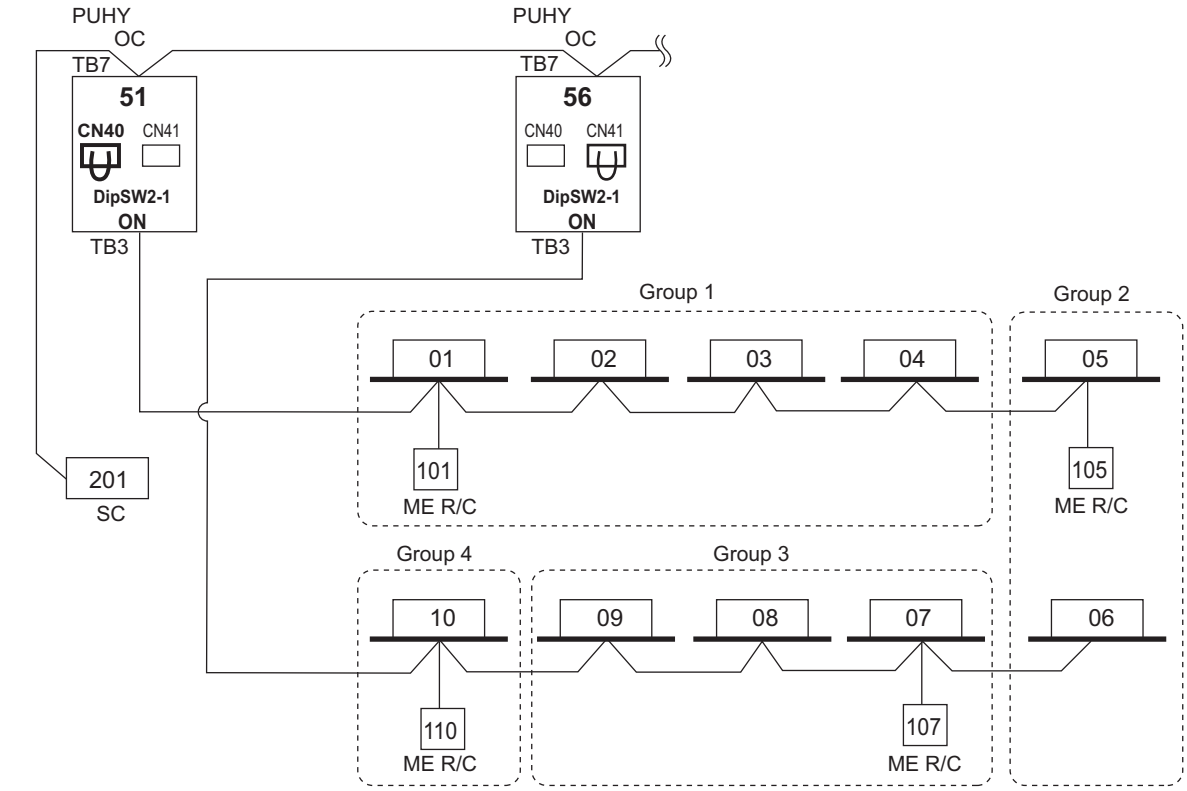
1. M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME remote controller consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to **2-3 "System configuration restrictions".**

2-4-3-7. ME remote controller, Multi-refrigerant-system, No Power supply unit



NOTE
- It is necessary to change the connecter to CN40 on the outdoor unit control board (only one outdoor unit) when the group is set between other refrigerant systems.
- It is necessary to set on the remote controller by manual when group sets on the different refrigerant system. Please refer to remote controller installation manual.

2-4-3-8. ME remote controller, Multi-refrigerant-system, System Controller at TB7 side, No Power sypply unit

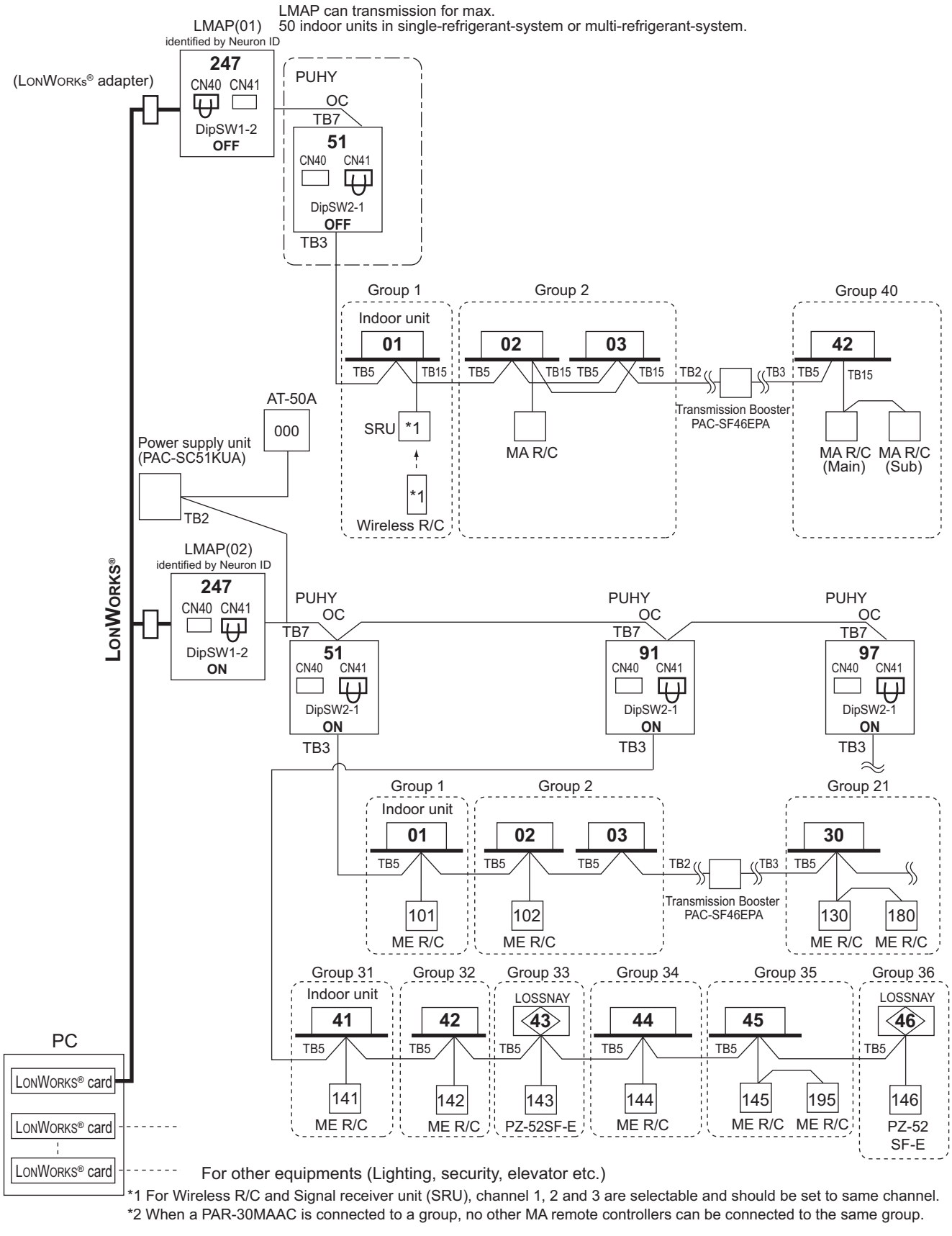


NOTE
- It is necessary to change the connecter to CN40 on the outdoor unit control board (only one outdoor unit) when the group is set between other refrigerant systems.

2-4-3. System examples

2-4-3-9. LMAP

LMAP can transmission for max. 50 indoor units;
If system controller (SC) is used, DipSW1-2 at LMAP and DipSW2-1 at Outdoor unit should set to "ON".
Change Jumper from CN41 to CN40 to activate power supply to LMAP itself for those LMAP connected without system controller (SC).

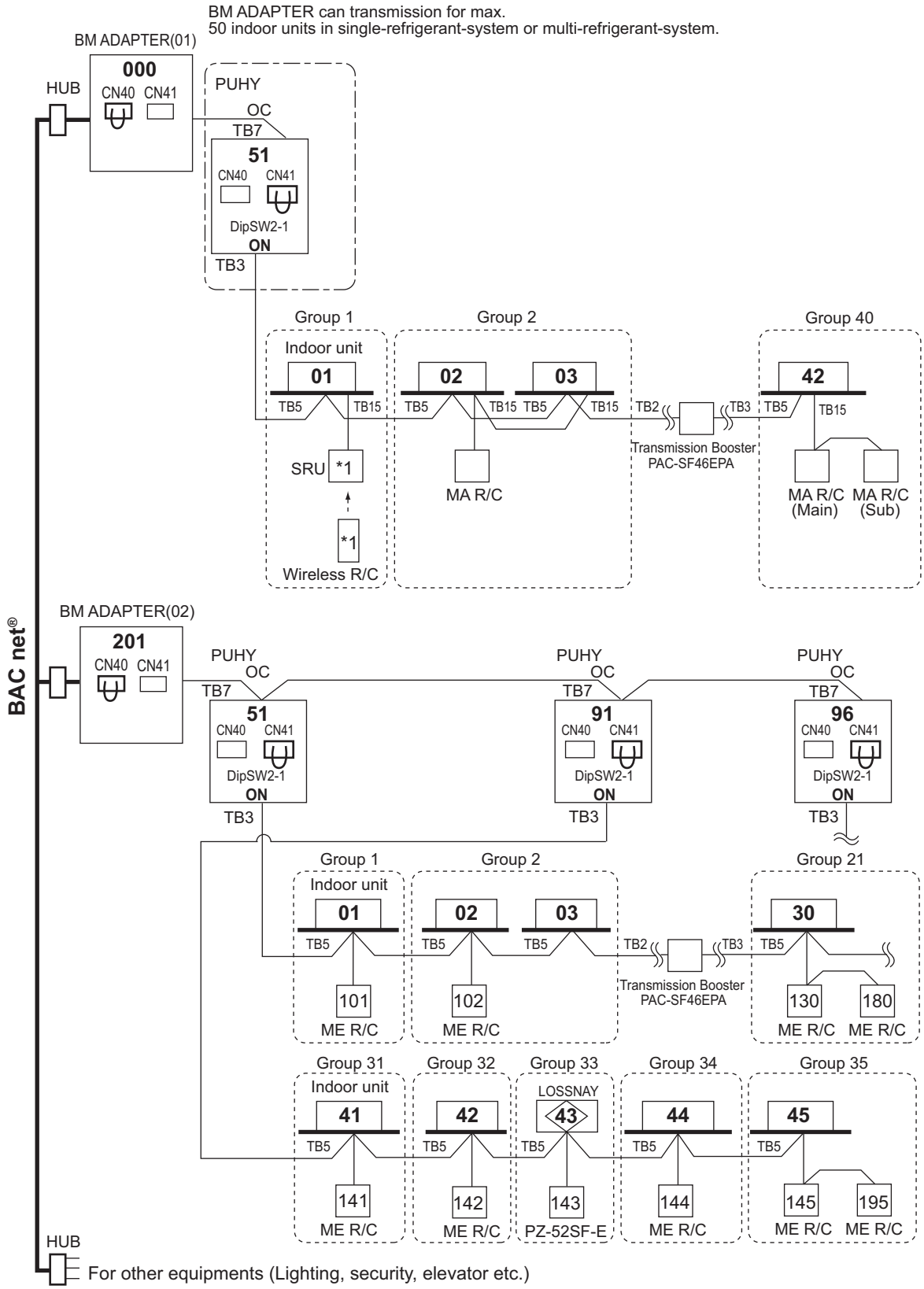


*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.
*2 When a PAR-30MAAC is connected to a group, no other MA remote controllers can be connected to the same group.

2-4-3. System examples

2-4-3-10. BM ADAPTER

BM ADAPTER can transmission for max. 50 indoor units;
Change Jumper from CN41 to CN40 to activate power supply to BM ADAPTER itself for those BM ADAPTER connected without the power supply unit.



*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.
*2 When a PAR-30MAAC is connected to a group, no other MA remote controllers can be connected to the same group.

3-1. R410A Piping material

Refrigerant pipe for CITY MULTI shall be made of phosphorus deoxidized copper, and has two types.
A. Type-O : Soft copper pipe (annealed copper pipe), can be easily bent with human's hand.
B. Type-1/2H pipe : Hard copper pipe (Straight pipe), being stronger than Type-O pipe of the same radical thickness.

The maximum operation pressure of R410A air conditioner is 4.30 MPa [623psi]. The refrigerant piping should ensure the safety under the maximum operation pressure. MITSUBISHI ELECTRIC recommends pipe size as Table 3-1, or You shall follow the local industrial standard. Pipes of radical thickness 0.7mm or less shall not be used.

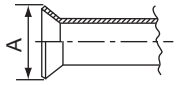
Table 3-1. Copper pipe size and radial thickness for R410A CITY MULTI.

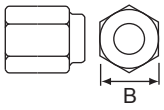
Size (mm)	Size (inch)	Radial thickness (mm)	Radial thickness (mil)	Pipe type
ø6.35	ø1/4"	0.8	[32]	Type-O
ø9.52	ø3/8"	0.8	[32]	Type-O
ø12.7	ø1/2"	0.8	[32]	Type-O
ø15.88	ø5/8"	1.0	[40]	Type-O
ø19.05	ø3/4"	1.2	[48]	Type-O
ø19.05	ø3/4"	1.0	[40]	Type-1/2H or H
ø22.2	ø7/8"	1.0	[40]	Type-1/2H or H
ø25.4	ø1"	1.0	[40]	Type-1/2H or H
ø28.58	ø1-1/8"	1.0	[40]	Type-1/2H or H
ø31.75	ø1-1/4"	1.1	[44]	Type-1/2H or H
ø34.93	ø1-3/8"	1.2	[48]	Type-1/2H or H
ø41.28	ø1-5/8"	1.4	[56]	Type-1/2H or H

* For pipe sized ø19.05 (3/4") for R410A air conditioner, choice of pipe type is up to you.
* The figures in the radial thickness column are based on the Japanese standards and provided only as a reference. Use pipes that meet the local standards.

Flare

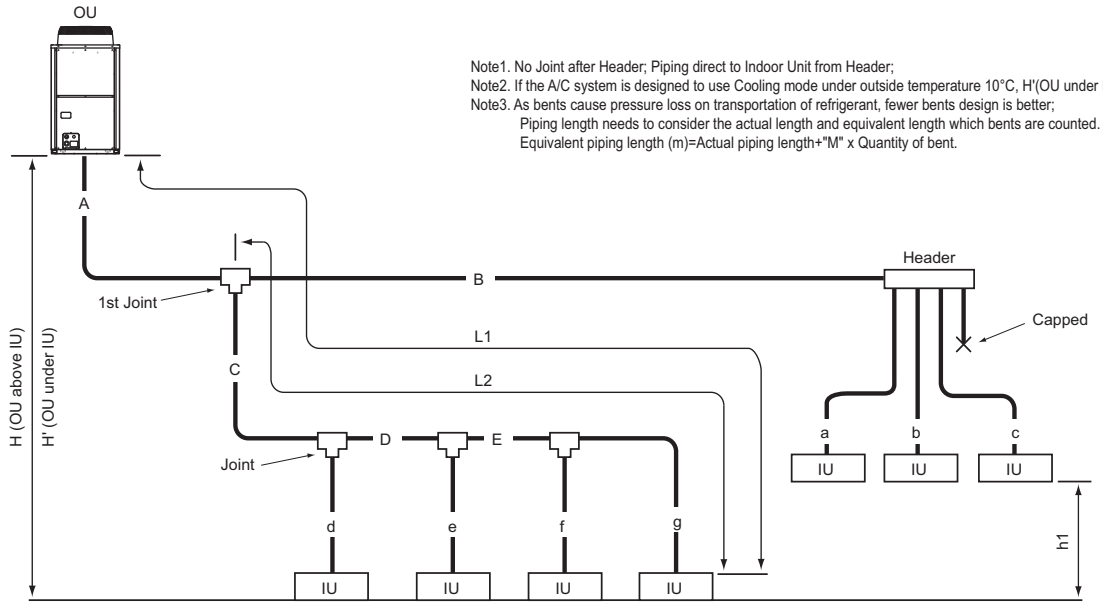
Due to the relative higher operation pressure of R410A compared to R22, the flare connection should follow dimensions mentioned below so as to achieve enough the air-tightness.

Flare pipe	Pipe size	A (For R410A) (mm[in.])
	ø6.35 [1/4"]	9.1
	ø9.52 [3/8"]	13.2
	ø12.70 [1/2"]	16.6
	ø15.88 [5/8"]	19.7
	ø19.05 [3/4"]	24.0

Flare nut	Pipe size	B (For R410A) (mm[in.])
	ø6.35 [1/4"]	17.0
	ø9.52 [3/8"]	22.0
	ø12.70 [1/2"]	26.0
	ø15.88 [5/8"]	29.0
	ø19.05 [3/4"]	36.0

3-2. Piping Design

3-2-1. PUHY-P300-450YRJC-A Piping



Note1. No Joint after Header; Piping direct to Indoor Unit from Header;
Note2. If the A/C system is designed to use Cooling mode under outside temperature 10°C, H'(OU under IU) ≦ 4m
Note3. As bents cause pressure loss on transportation of refrigerant, fewer bents design is better;
Piping length needs to consider the actual length and equivalent length which bents are counted.
Equivalent piping length (m)=Actual piping length+"M" x Quantity of bent.

Fig. 3-2-1A Piping scheme

IU : Indoor unit , OU : Outdoor unit

Piping length (m [ft.])

Item	Piping in the figure	Max. length	Max. equivalent length
Total piping length	A+B+C+D+E+a+b+c+d+e+f+g	300 [984']	-
Farthest IU from OU (L1)	A+C+D+E+g / A+B+c	120 [394']	145 [476']
Farthest IU from first Joint (L2)	C+D+E+g / B+c	40 [131']	40 [131']
Height between OU and IU (OU above IU)	H	50 [164']	-
Height between OU and IU (OU under IU)	H'	40 [131']	-
Height between IU and IU	h1	15 [49']	-

OU: Outdoor Unit, IU: Indoor Unit

Bent equivalent length "M"

Outdoor unit model	M (m/bent [ft./bent])
PUHY-P300YRJC-A	0.42 [1.38]
PUHY-P350YRJC-A	0.47 [1.54]
PUHY-P400YRJC-A	0.50 [1.64]
PUHY-P450YRJC-A	0.50 [1.64]

Piping "A" size selection rule (mm [in.])

Outdoor and the first Joint	Pipe(Liquid)	Pipe(Gas)
PUHY-P300YRJC=CMY-Y102SS-G2	ø9.52 [3/8"] *1	ø22.20 [7/8"]
PUHY-P350YRJC=CMY-Y102SS-G2	ø12.70 [1/2"]	ø28.58 [1-1/8"]
PUHY-P400YRJC=CMY-Y202S-G2	ø12.70 [1/2"]	ø28.58 [1-1/8"]
PUHY-P450YRJC=CMY-Y202S-G2	ø15.88 [5/8"]	ø28.58 [1-1/8"]

*1. A>=40m [131ft.], ø12.70mm [1/2in.] ; A<40m [131ft.], ø9.52mm [3/8in.]

Joint selection rule

Total down-stream Indoor capacity	Joint
~ P200	CMY-Y102SS-G2
P201 ~ P400	CMY-Y102LS-G2
P401 ~ P650	CMY-Y202S-G2
P651 ~	CMY-Y302S-G2

*PUHY-P450YRJC's first Joint is always CMY-Y202S-G2;
*Concerning detailed usage of Joint parts, refer to its Installation Manual.

Piping"B","C","D","E"size selection rule (mm [in.])

Total down-stream Indoor capacity	Pipe(Liquid)	Pipe(Gas)
~ P140	ø9.52 [3/8"]	ø15.88 [5/8"]
P141 ~ P200	ø9.52 [3/8"]	ø19.05 [3/4"]
P201 ~ P300	ø9.52 [3/8"]	ø22.20 [7/8"]
P301 ~ P400	ø12.70 [1/2"]	ø28.58 [1-1/8"]
P401 ~ P650	ø15.88 [5/8"]	ø28.58 [1-1/8"]
P651 ~ P800	ø19.05 [3/4"]	ø34.93 [1-3/8"]
P801 ~	ø19.05 [3/4"]	ø41.28 [1-5/8"]

Piping "a","b","c","d","e","f","g" size selection rule (mm [in.])

Indoor Unit size	Pipe(Liquid)	Pipe(Gas)
P15,P20,P25,P32,P40,P50,GUF-50RDH	ø6.35 [1/4"]	ø12.70 [1/2"]
P63,P71,P80,P100,P125,P140	ø9.52 [3/8"]	ø15.88 [5/8"]
P200	ø9.52 [3/8"]	ø19.05 [3/4"]
P250	ø9.52 [3/8"]	ø22.20 [7/8"]

Header selection rule

	4-branch Header	8-branch Header	10-branch Header
	CMY-Y104-G	CMY-Y108-G	CMY-Y1010-G
Total down-stream Indoor capacity	<=P200	<=P400	<=P650

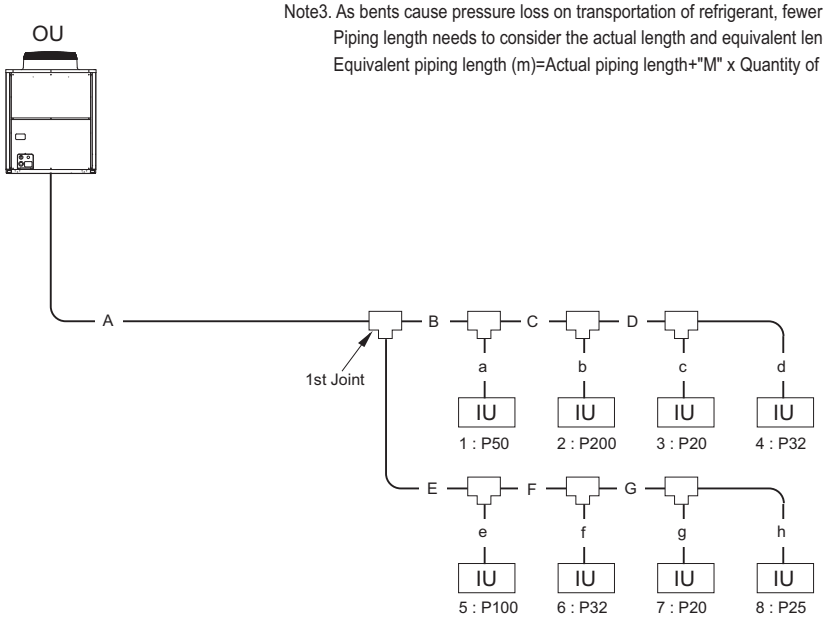
* CMY-Y108-G can directly connect PUHY-P300-450YRJC;
* CMY-Y1010-G can directly connect PUHY-P300-450YRJC;
* CMY-Y104-G can NOT connect P200,P250 Indoor, but CMY-Y108, Y1010-G can do;
* Concerning detailed usage of Header parts, refer to its Installation Manual.

Note3. Indoor capacity is described as its model size;
For example, PEFY-P32VMA-E-S, its capacity is P32;
Note4. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.
For example, PEFY-P25VMA-E-S+PEFY-P32VMA-E-S: Total Indoor capacity=P25+P32=P57
Note5. Piping sized determined by the Total down-stream indoor capacity is NOT necessary
to be bigger than the up-stream one.
i.e. A>=B; A>=C>=D

3-3. Refrigerant charging calculation

Sample connection(with 8 indoor units)

Note1. No Joint after Header; Piping direct to Indoor Unit from Header;
Note2. If the A/C system is designed to use Cooling mode under outside temperature 10°C, H'(OU under IU) ≦ 4m
Note3. As bents cause pressure loss on transportation of refrigerant, fewer bents design is better;
Piping length needs to consider the actual length and equivalent length which bents are counted.
Equivalent piping length (m)=Actual piping length+"M" x Quantity of bent.



■ Amount of refrigerant to be charged

Refrigerant for extended pipes (field piping) is not factory-charged to the outdoor unit. Add an appropriate amount of refrigerant for each pipe on site.

Record the size of each liquid pipe and the amount of refrigerant that was charged on the outdoor unit for future reference.

■ Calculating the amount of refrigerant to be charged

- The amount of refrigerant to be charged is calculated with the size of the on-site-installed liquid pipes and their length.
- Calculate the amount of refrigerant to be charged according to the formula below.
- Round up the calculation result to the nearest 0.1kg. (i.e., 16.08 kg = 16.1 kg)

<Amount of refrigerant to be charged>

■ Calculating the amount of refrigerant to be charged

Total length of ø19.05 liquid pipe x 0.29		Total length of ø15.88 liquid pipe x 0.2		Total length of ø12.7 liquid pipe x 0.12		Total length of ø9.52 liquid pipe x 0.06		Total length of ø6.35 liquid pipe x 0.024
(m)x0.29(kg/m)	+	(m)x0.2(kg/m)	+	(m)x0.12(kg/m)	+	(m)x0.06(kg/m)	+	(m)x0.024(kg/m)

Total capacity of connected indoor units	Charged amount
~80	2.0kg
81~160	2.5kg
161~330	3.0kg
331~390	3.5kg
391~480	4.5kg
481~630	5.0kg
631~710	6.0kg
711~800	8.0kg
801~890	9.0kg
891~1070	10.0kg
1071~1250	12.0kg
1251~	14.0kg

■ Amount of factory-charged refrigerant

Outdoor unit model	Charged amount
P300 model	9.0kg
P350 model	
P400 model	11.5kg
P450 model	

■ Sample calculation

		Indoor		
A : ø15.88	15m	1:P50	a : ø6.35	15m
B : ø12.70	2m	2:P200	b : ø9.52	15m
C : ø9.52	2m	3:P20	c : ø6.35	5m
D : ø9.52	1m	4:P20	d : ø6.35	5m
E : ø9.52	10m	5:P100	e : ø9.52	5m
F : ø9.52	10m	6:P32	f : ø6.35	5m
G : ø9.52	5m	7:P20	g : ø6.35	5m
		8:P25	h : ø6.35	5m

Total length for each pipe size :
ø15.88 A=15m
ø12.70 B=2m
ø9.52 C+D+E+F+G+b+e=2+1+10+10+5+15+5=48m
ø6.35 a+c+d+f+g+h=15+5+5+5+5+5=40m

This yields the following result :
=15x0.2+2x0.12+48x0.06+40x0.024+4.5
=11.58kg
≒11.6kg

4. Outdoor Installation

4-1. Requirement on installation site

1. No direct thermal radiation to the unit.
2. No possibility of annoying the neighbors by the sound of the unit.
   Valves and refrigerant flow on the outdoor unit may generate noise.
3. Avoid the sites where strong winds blow.
4. With strength to bear the weight of the unit.
5. Drain flow from the unit is cared at heating mode.
6. Enough space for installation and service as shown at 4-2.
7. Avoid the sites where acidic solutions or chemical sprays (sulfur series) are used frequently.
8. The unit should be secure from combustible gas, oil, steam, chemical gas like acidic solution, sulfur gas and so on.

4-2. Spacing

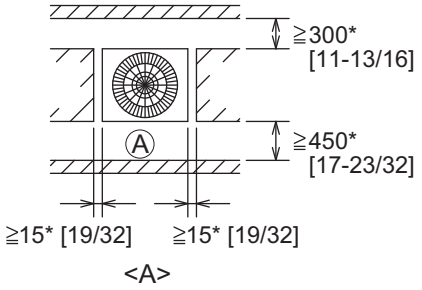
In case of single installation

• Secure enough space around the unit as shown in the figure.

<A> : Top view
<B> : Side view
<C> : When there is little space up to an obstruction

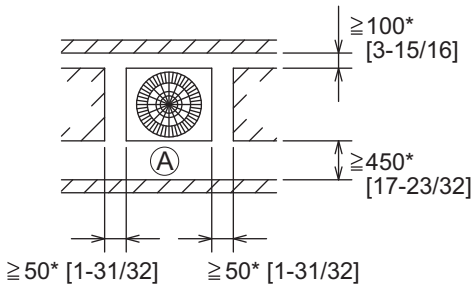
Ⓐ : Front
Ⓑ : Unit height
Ⓒ : Back
Ⓓ : Air outlet guide (Procured at the site)

(1) If the distance is 300 mm [11-13/16 in.] or more between the rear side and the wall



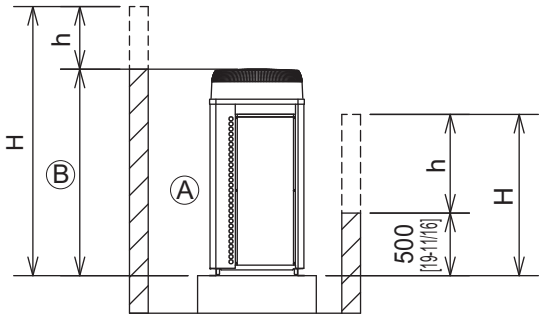
<A>

(2) If the distance is 100 mm [3-15/16 in.] or more between the rear side and the wall



<A>

(3) If the wall height (H) of the front, rear or side exceeds the wall height restriction



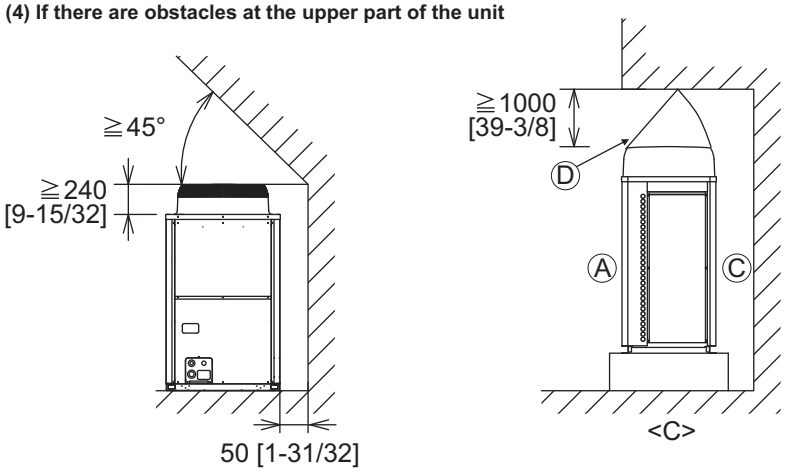
<B>

• When the height of the walls on the front, back or on the sides <H> exceeds the wall height limit as defined below, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.

<Wall height limit> Front: Up to the unit height
Back: Up to 500mm [19-11/16 in.] from the unit bottom
Side: Up to the unit height

If the unit cannot be kept clear of the wall, please change the direction of the air outlet of the unit to blow against the wall to avoid air short cycle.

(4) If there are obstacles at the upper part of the unit



<C>

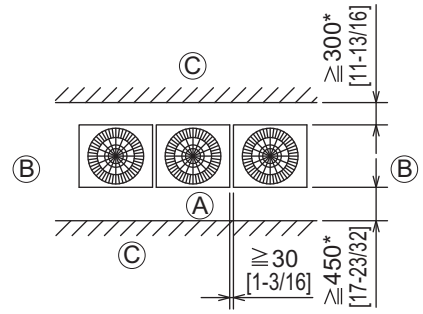
(Unit : mm [in.])

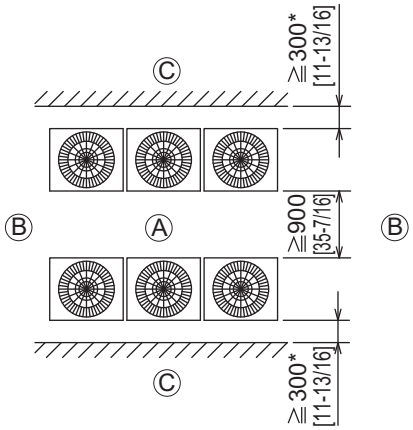
In case of collective installation and continuous installation

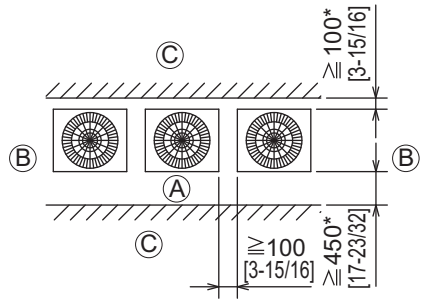
Ⓐ : Front Ⓒ : Wall height (H)

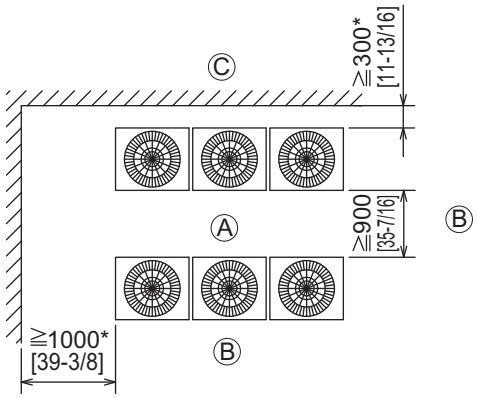
Ⓑ : Must be open

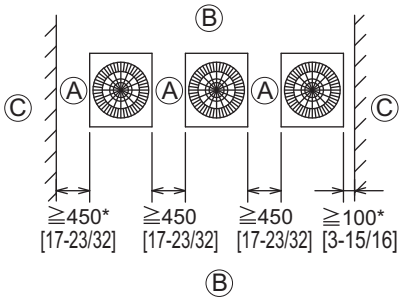
- When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and passageways between groups of units as shown in the figures.
- At least two sides must be left open.
- As with the single installation, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.
- If there is a wall at both the front and the rear of the unit, install up to six units consecutively in the side direction and provide a space of 1000mm or more as inlet space/passage space for each six units.

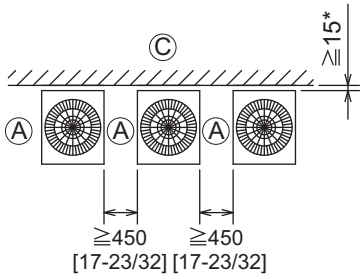












(Unit : mm [in.])

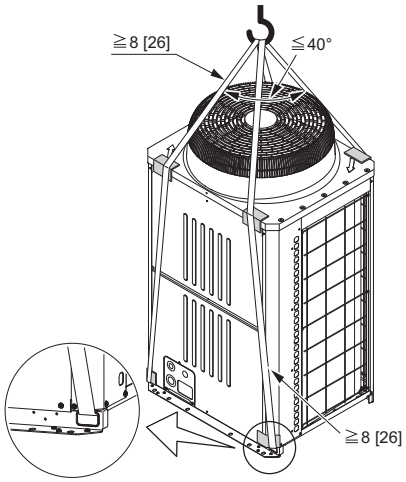
4-3. Piping direction

4-3-1. Lifting method

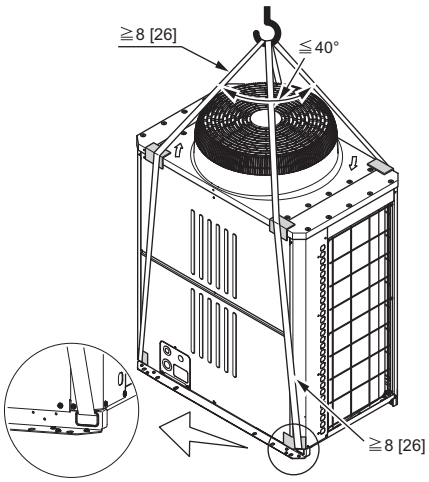
· When lifting the unit with ropes, run the ropes under the unit and use the lifting hole.
· Support the unit at four points with two ropes, and avoid giving mechanical shock.
· Suspension rope angle must be 40˚ or less, so as to avoid compressing fan guard.
· Use two ropes, each at least 8m [26 ft.] in length
· Use ropes strong enough to support the weight of the unit.
· Always suspend the unit from four corners. (It is dangerous to suspend a unit from two corners and must not be attempted.)
· Use protective pads to keep the ropes from scratching the panels on the unit.

(Unit : m [ft.])

① P300-P350



② P400-P450



⚠ CAUTION

Exercise caution when transporting products.

· Products weighing more than 20 kg [45 LBS] should not be carried alone.
· Do not carry the product by the PP bands.
· To avoid the risk of injury, do not touch the heat exchanger fins.
· Plastic bags may pose a risk of choking hazard to children. Tear plastic bags into pieces before disposing of them.
· When lifting and transporting outdoor units with ropes, run the ropes through lifting hole at the unit base. Securely fix the unit so that the ropes will not slide off, and always lift the unit at four points to prevent the unit from falling.

4-3-2. Installation

- Secure the unit with anchor bolts as shown in the figure below so that the unit will not topple over with strong wind or during an earthquake.
- Install the unit on a durable base made of such materials as concrete or angle steel.
- Take appropriate anti-vibration measures (e.g., vibration damper pad, vibration isolation base) to keep vibrations and noise from being transmitted from the unit through walls and floors.
- When using a rubber cushion, install it so that the cushion covers the entire width of the unit leg.
- Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure below is securely supported.
- Install the anchor bolt in such a way that the top end of the anchor bolt do not stick out more than 30 mm [1-3/16 in.].
- This unit is not designed to be anchored with post-installation-type anchor bolts, although by adding fixing brackets anchoring with such type of anchor bolts becomes possible.

Ⓐ: M10 anchor bolt procured at the site.

Ⓑ: Corner is not seated.

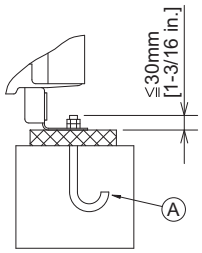
Ⓒ: Fixing bracket for hole-in anchor bolt (3 locations to fix with screws).

⚠WARNING

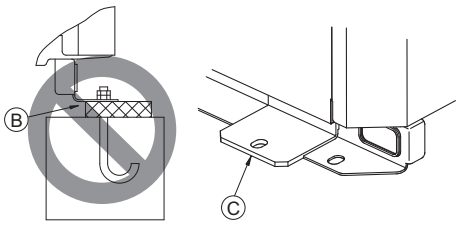
Properly install the unit on a surface that can withstand the weight of the unit. Unit installed on an unstable surface may fall and cause injury.

⚠WARNING

Take appropriate safety measures against strong winds and earthquakes to prevent the unit from falling.



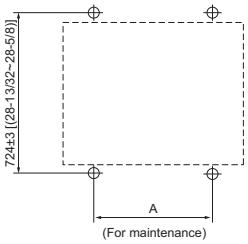
Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure is securely supported. The brackets may bend if they are not securely supported.



Take into consideration the durability of the base, water drainage route (Drain water is discharged from outdoor units during operation.), piping route, and wiring route when performing foundation work.

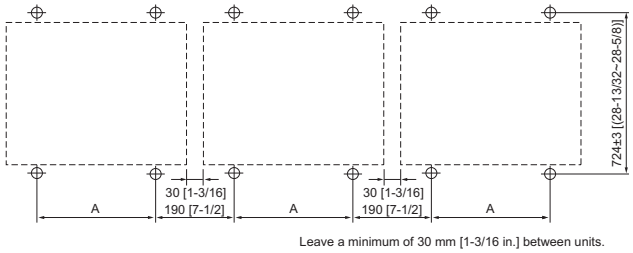
4-3-3. Anchor bolt positions

• Individual installation



• Collective installation

(Unit : mm [in.])



Leave a minimum of 30 mm [1-3/16 in.] between units.

PUHY	P300-P350
A	760±2 [29-15/16(29-27/32~30)]

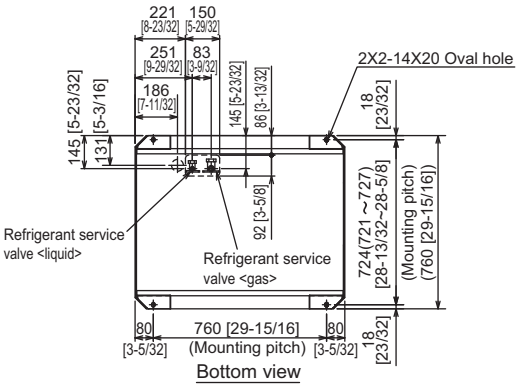
PUHY	P400-P450
A	1060±2 [41-3/4(41-21/32~41-13/16)]

4-3-4. Installation

When the pipes and/or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
When the pipes are routed at the bottom of the unit, the base should be at least 100 mm [3-15/16 in.] in height.

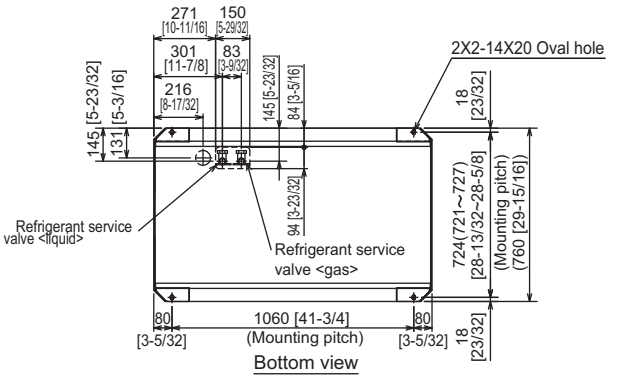
· P300-P350

(Unit : mm [in.])

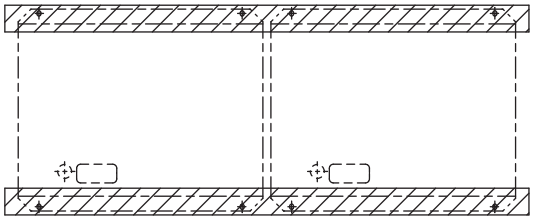


· P400-P450

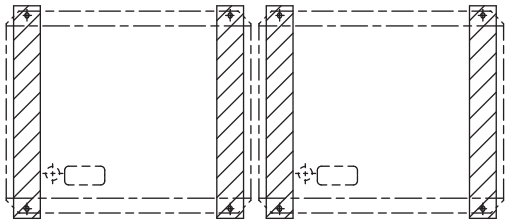
(Unit : mm [in.])



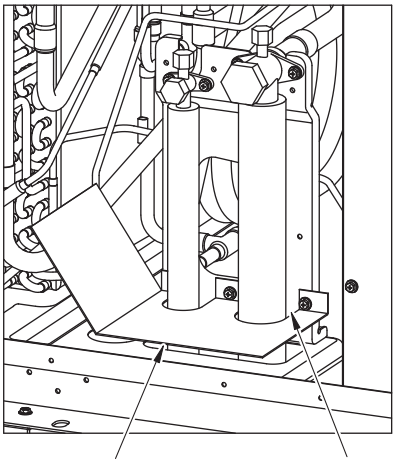
Installation base parallel to the unit's front panel



Installation base perpendicular to the unit's front panel



4-3-5. Refrigerant pipe routing



The gaps around the edges of through holes for pipes and wires on the unit allow water or mice to enter the unit and damage its parts. Close these gaps with filler plates.

This unit allows two types of pipe routing:
- Bottom piping
- Front piping

⚠ CAUTION

To prevent small animals, water, and snow from entering the unit and damage its parts, close the gap around the edges of through holes for pipes and wires with filler plates.

4-4. Weather countermeasure

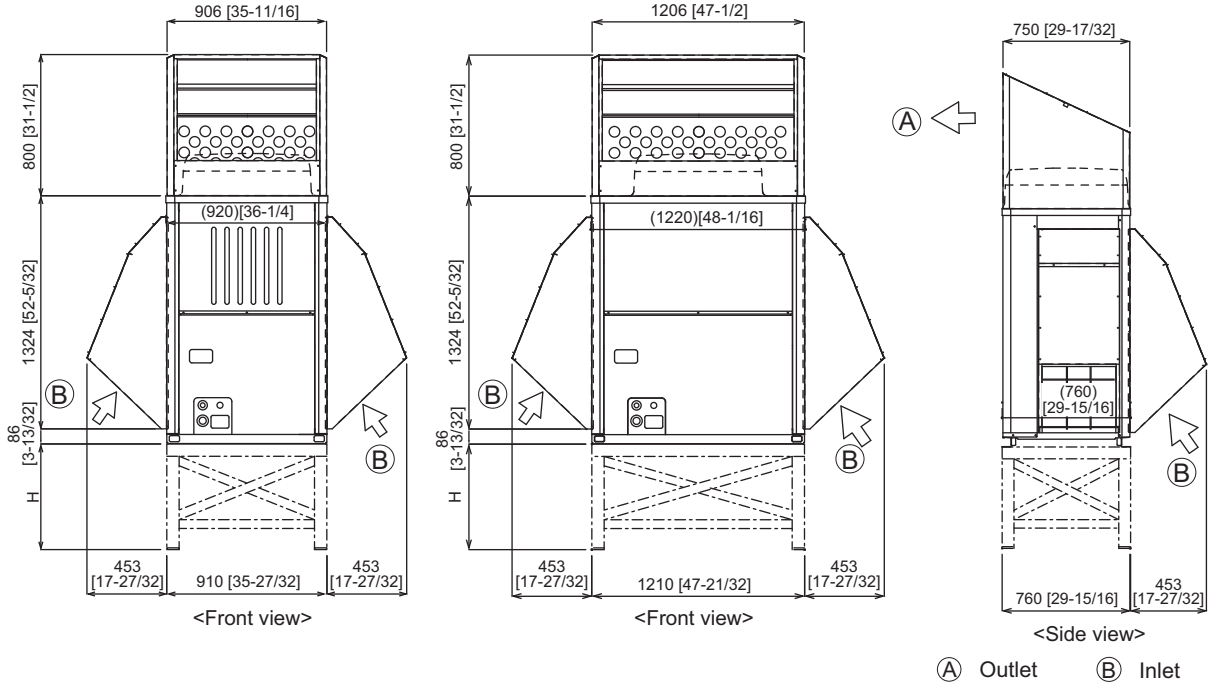
In cold and/or snowy areas, sufficient countermeasures to wind and snow damages should be taken for operating unit in normal and good condition in winter time. Surround the units with snow nets or fences to protect them from snow. Even in the other areas, full consideration is required for installation of unit in order to prevent abnormal operations caused by wind or snow. **When rain and snow directly fall on unit in the case of air-conditioning operations in 10 or less degrees centigrade outdoor air (50 or less degrees fahrenheit outdoor air) , mount inlet and outlet ducts on unit for assuring stable operations.**

Countermeasure to snow and wind

Prevention the Outdoor unit from wind and snow damages in cold or snowy areas, snow hood shown below is recommended and helpful.

*Do not use a snow hood made of stainless steel, which may cause the unit to rust. If the use of a stainless snow hood is the only option, contact the sales office before installing it.

• Snow hood



Note:

1. Height of frame base for snow damage prevention (H) shall be twice as high as expected snowfall. Width of frame base shall not exceed that of the unit. The frame base shall be made of angle steel, etc., and designed so that snow and wind slip through the structure. (If frame base is too wide, snow will be accumulated on it.)
2. Install unit so that wind will not directly lash against openings of inlet and outlet ducts.
3. Build frame base at customer referring to this figure.
   Material : Galvanized steel plate 1.2T [1/16 in. T]
   Painting : Overall painting with polyester powder
   Color : Munsell 5Y8/1 (same as that of unit)
4. To install units side by side, install a filler plate between the fan guard and the outlet-side snow food as shown in Figure A.
   (The filler plate provided accommodates the installation pitch of between 30-80 mm [1-3/16~3-5/32 in.].)
5. When the unit is used in a cold region and the heating operation is continuously performed for a long time when the outside air temperature is below freezing, install a heater to the unit base or take other appropriate measures to prevent water from freezing on the base.

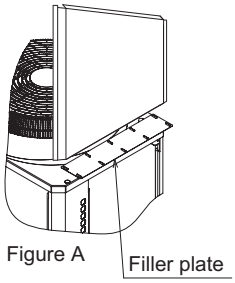
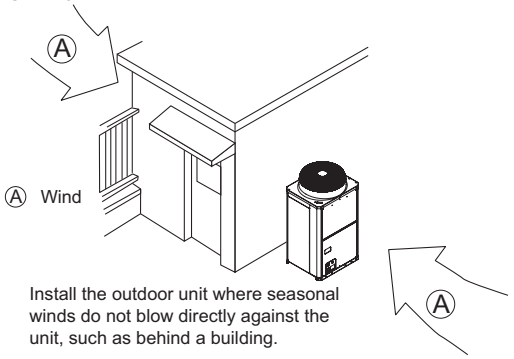


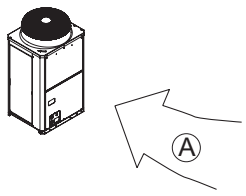
Figure A

Countermeasure to wind

Referring to the figure shown below, take appropriate measures which will suit the actual situation of the place for installation.
A unit installed alone is vulnerable to strong winds. Select the installation site carefully to minimize the effect of winds.
To install a unit in a place where the wind always blows from the same direction, install the unit so that the outlet faces away from the direction of the wind.



Install the outdoor unit where seasonal winds do not blow directly against the unit, such as behind a building.



Install the outdoor unit to avoid having seasonal winds against the front of air outlet/inlet on the unit.

4-5. Caution on selecting outdoor units

Consult your dealer when the following issues on Y system are the key concern.

- **Warm air** may flow out from the indoor unit during heating Thermo-OFF.
- **Refrigerant flow sound** may occur in the rooms with low background noise such as hotel rooms, hospital rooms, bedrooms, or conference rooms.

To avoid the above issues on Y system, changing board settings on the indoor and outdoor units is required.
Ask AC&R Works for details.

5-1. General precautions

5-1-1. Usage

- The air-conditioning system described in this Data Book is designed for human comfort.
- This product is not designed for preservation of food, animals, plants, precision equipment, or art objects. To prevent quality loss, do not use the product for purposes other than what it is designed for.
- To reduce the risk of water leakage and electric shock, do not use the product for air-conditioning vehicles or vessels.

5-1-2. Installation environment

- Do not install any unit other than the dedicated unit in a place where the voltage changes a lot, large amounts of mineral oil (e.g., cutting oil) are present, cooking oil may splash, or a large quantity of steam can be generated such as a kitchen.
- Do not install the unit in acidic or alkaline environment.
- Installation should not be performed in the locations exposed to chlorine or other corrosive gases. Avoid near a sewer.
- To reduce the risk of fire, do not install the unit in a place where flammable gas may be leaked or inflammable material is present.
- This air conditioning unit has a built-in microcomputer. Take the noise effects into consideration when deciding the installation position. Especially in a place where antenna or electronic device are installed, it is recommended that the air conditioning unit be installed away from them.
- Install the unit on a solid foundation according to the local safety measures against typhoons, wind gusts, and earthquakes to prevent the unit from being damaged, toppling over, and falling.

5-1-3. Backup system

- In a place where air conditioner's malfunctions may exert crucial influence, it is recommended to have two or more systems of single outdoor units with multiple indoor units.

5-1-4. Unit characteristics

- Heat pump efficiency depends on outdoor temperature. In the heating mode, performance drops as the outside air temperature drops. In cold climates, performance can be poor. Warm air would continue to be trapped near the ceiling and the floor level would continue to stay cold. In this case, heat pumps require a supplemental heating system or air circulator. Before purchasing them, consult your local distributor for selecting the unit and system.
- When the outdoor temperature is low and the humidity is high, the heat exchanger on the outdoor unit side tends to collect frost, which reduces its heating performance. To remove the frost, Auto-defrost function will be activated and the heating mode will temporarily stop for 3-10 minutes. Heating mode will automatically resume upon completion of defrost process.
- Air conditioner with a heat pump requires time to warm up the whole room after the heating operation begins, because the system circulates warm air in order to warm up the whole room.
- The sound levels were obtained in an anechoic room. The sound levels during actual operation are usually higher than the simulated values due to ambient noise and echoes. Refer to the section on "SOUND LEVELS" for the measurement location.
- The total capacity of the connected indoor units can be greater than the capacity of the outdoor unit. However, when the connected indoor units operate simultaneously, each unit's capacity may become smaller than the rated capacity.
- When the unit is started up for the first time within 12 hours after power on or after power failure, it performs initial startup operation (capacity control operation) to prevent damage to the compressor. The initial startup operation requires 90 minutes maximum to complete, depending on the operation load.

5-1-5. Relevant equipment

- Use an earth leakage breaker (ELB) with medium sensitivity, and an activation speed of 0.1 second or less.
- Consult your local distributor or a qualified technician when installing an earth leakage breaker.
- If the unit is inverter type, select an earth leakage breaker for handling high harmonic waves and surges.
- Leakage current is generated not only through the air conditioning unit but also through the power wires. Therefore, the leakage current of the main power supply is greater than the total leakage current of each unit. Take into consideration the capacity of the earth leakage breaker or leakage alarm when installing one at the main power supply. To measure the leakage current simply on site, use a measurement tool equipped with a filter, and clamp all the four power wires together. The leakage current measured on the ground wire may not accurate because the leakage current from other systems may be included to the measurement value.
- Do not install a phase advancing capacitor on the unit connected to the same power system with an inverter type unit and its equipment.
- If a large current flows due to the product malfunctions or faulty wiring, both the earth leakage breaker on the product side and the upstream overcurrent breaker may trip almost at the same time. Separate the power system or coordinate all the breakers depending on the system's priority level.

5-1-6. Unit installation

- Your local distributor or a qualified technician must read the Installation Manual that is provided with each unit carefully before performing installation work.
- Consult your local distributor or a qualified technician when installing the unit. Improper installation by an unqualified person may result in water leakage, electric shock, or fire.
- Ensure there is enough space around each unit.

5-1-7. Optional accessories

- Only use accessories recommended by Mitsubishi Electric. Consult your local distributor or a qualified technician when installing them. Improper installation by an unqualified person may result in water leakage, electric leakage, system breakdown, or fire.
- Some optional accessories may not be compatible with the air conditioning unit to be used or may not suitable for the installation conditions. Check the compatibility when considering any accessories.
- Note that some optional accessories may affect the air conditioner's external form, appearance, weight, operating sound, and other characteristics.

5-1-8. Operation/Maintenance

- Read the Instruction Book that is provided with each unit carefully prior to use.
- Maintenance or cleaning of each unit may be risky and require expertise. Read the Instruction Book to ensure safety. Consult your local distributor or a qualified technician when special expertise is required such as when the indoor unit needs to be cleaned.

5-2. Precautions for Indoor unit

5-2-1. Operating environment

- The refrigerant (R410A) used for air conditioner is non-toxic and nonflammable. However, if the refrigerant leaks, the oxygen level may drop to harmful levels. If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit even if the refrigerant should leak.
- If the units operate in the cooling mode at the humidity above 80%, condensation may collect and drip from the indoor units.

5-2-2. Unit characteristics

- The return air temperature display on the remote controller may differ from the ones on the other thermometers.
- The clock on the remote controller may be displayed with a time lag of approximately one minute every month.
- The temperature using a built-in temperature sensor on the remote controller may differ from the actual room temperature due to the effect of the wall temperature.
- Use a built-in thermostat on the remote controller or a separately-sold thermostat when indoor units installed on or in the ceiling operate the automatic cooling/heating switchover.
- The room temperature may rise drastically due to Thermo OFF in the places where the air conditioning load is large such as computer rooms.
- Be sure to use a regular filter. If an irregular filter is installed, the unit may not operate properly, and the operation noise may increase.
- The room temperature may rise over the preset temperature in the environment where the heating air conditioning load is small.

5-2-3. Unit installation

- For simultaneous cooling/heating operation type air conditioners (R2, WR2 series), the G-type Refrigerant Distributor cannot be connected to the 16HP outdoor unit model or above, and the G- and GA-type Refrigerant Distributors cannot be connected to the 28HP model or above. The GB- and HB-type Refrigerant Distributors (sub) cannot be connected to the outdoor unit directly, and be sure to use them with GA- and HA-type Refrigerant Distributors (main).
- The insulation for low pressure pipe between the Refrigerant Distributor and outdoor unit shall be at least 20 mm thick. If the unit is installed on the top floor or in a high-temperature, high-humidity environment, thicker insulation may be necessary.
- Do not have any branching points on the downstream of the refrigerant pipe header.
- When a field-supplied external thermistor is installed or when a device for the demand control is used, abnormal stop of the unit or damage of the electromagnetic contactor may occur. Consult your local distributor for details.
- When indoor units operate a fresh air intake, install a filter in the duct (field-supplied) to remove the dust from the air.
- The 4-way or 2-way Airflow Ceiling Cassette Type units that have an outside air inlet can be connected to the duct, but need a booster fan to be installed at site. Refer to the chapter "Indoor Unit" for the available range for fresh air intake volume.
- Operating fresh air intake on the indoor unit may increase the sound pressure level.

5-3. Precautions for Fresh air intake type indoor unit

5-3-1. Usage

- This unit mainly handles the outside air load, and is not designed to maintain the room temperature. Install other air conditioners for handling the air conditioning load in the room.

5-3-2. Unit characteristics

- This unit cannot perform the drying operation. The unit will continue the fan operation and blow fresh air (air that is not air-conditioned) when the Heating Thermo-OFF or Cooling Thermo-OFF mode is selected.
- The fan may stop tentatively when the unit is connected to the simultaneous cooling/heating operation type outdoor unit (R2, WR2 series) or during the defrost cycle.
- This unit switches the Thermo ON or OFF depending on the room temperature. The outside air is directly supplied into the room during Thermo OFF. Take caution of the cold supply air due to low outside air temperature and of condensation in the room due to high humidity of the outside air.
- Outside air temperature ranges for the operation must be as follows:
  Cooling: 21ºCD.B./15.5ºCW.B. ~ 43ºCD.B./35ºCW.B.
  Heating: -10ºCD.B.~ 20ºCD.B
  The unit is forced to operate Thermo OFF (fan operation) when the outside air temperature is as follows.
  Cooling: 21ºCD.B or below; Heating: 20ºCD.B or above
- Either a remote controller (sold separately) or a remote sensor (sold separately) must be installed to monitor the room temperature.
- If only this unit is used as an indoor unit, condensation may form at the supply air grill while the unit is operated in the cooling mode. This unit cannot operate dehumidifying.
- Use the unit in the way that the airflow rate will not exceed the 110% of the rated airflow.

5-4. Precautions for Outdoor unit/Heat source unit

5-4-1. Installation environment

- Outdoor unit with salt-resistant specification is recommended to use in a place where it is subject to salt air.
- Even when the unit with salt-resistant specification is used, it is not completely protected against corrosion. Be sure to follow the directions or precautions described in Instructions Book and Installation Manual for installation and maintenance. The salt-resistant specification is referred to the guidelines published by JRAIA (JRA9002).
- Install the unit in a place where the flow of discharge air is not obstructed. If not, the short-cycling of discharge air may occur.
- Provide proper drainage around the unit base, because the condensation may collect and drip from the outdoor units. Provide water-proof protection to the floor when installing the units on the rooftop.
- In a region where snowfall is expected, install the unit so that the outlet faces away from the direction of the wind, and install a snow guard to protect the unit from snow. Install the unit on a base approximately 50 cm higher than the expected snowfall. Close the openings for pipes and wiring, because the ingress of water and small animals may cause equipment damage. If SUS snow guard is used, refer to the Installation Manual that comes with the snow guard and take caution for the installation to avoid the risk of corrosion.
- When the unit is expected to operate continuously for a long period of time at outside air temperatures of below 0ºC, take appropriate measures, such as the use of a unit base heater, to prevent icing on the unit base. (Not applicable to the PUMY series)
- Install the snow guard so that the outlet/inlet faces away from the direction of the wind.
- When the snow accumulates approximately 50 cm or more on the snow guard, remove the snow from the guard. Install a roof that is strong enough to withstand snow loads in a place where snow accumulates.
- Provide proper protection around the outdoor units in places such as schools to avoid the risk of injury.
- A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere. When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.
- Install a strainer (50 mesh or more recommended) on the water pipe inlet on the heat source unit.
- Interlock the heat source unit and water circuit pump.
- Note the followings to prevent the freeze bursting of pipe when the heat source unit is installed in a place where the ambient temperature can be 0ºC or below.
  - Keep the water circulating to prevent it from freezing when the ambient temperature is 0ºC or below.
  - Before a long period of non use, be sure to purge the water out of the unit.

5-4-2. Circulating water

- Follow the guidelines published by JRAIA (JRA-GL02-1994) to check the water quality of the water in the heat source unit regularly.
- A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere. When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.

5-4-3. Unit characteristics

- When the Thermo ON and OFF is frequently repeated on the indoor unit, the operation status of outdoor units may become unstable.

5-4-4. Relevant equipment

- Provide grounding in accordance with the local regulations.

5-5. Precautions for Control-related items

5-5-1. Product specification

- To introduce the MELANS system, a consultation with us is required in advance. Especially to introduce the electricity charge apportioning function or energy-save function, further detailed consultation is required. Consult your local distributor for details.
- Billing calculation for AG-150A, GB-50ADA, TG-2000A, or the billing calculation unit is unique and based on our original method. (Backup operation is included.) It is not based on the metering method, and do not use it for official business purposes. It is not the method that the amount of electric power consumption (input) by air conditioner is calculated. Note that the electric power consumption by air conditioner is apportioned by using the ratio corresponding to the operation status (output) for each air conditioner (indoor unit) in this method.
- In the apportioned billing function for AG-150A and GB-50ADA, use separate watthour meters for A-control units, K-control units, and packaged air conditioner for City Multi air conditioners. It is recommended to use an individual watthour meter for the large-capacity indoor unit (with two or more addresses).
- When using the peak cut function on the AG-150A or GB-50ADA, note that the control is performed once every minute and it takes time to obtain the effect of the control. Take appropriate measures such as lowering the criterion value. Power consumption may exceed the limits if AG-150A or GB-50ADA malfunctions or stops. Provide a back-up remedy as necessary.
- The controllers cannot operate while the indoor unit is OFF. (No error)
  Turn ON the power to the indoor unit when operating the controllers.
- When using the interlocked control function on the AG-150A, GB-50ADA, PAC-YG66DCA, or PAC-YG63MCA, do not use it for the control for the fire prevention or security. (This function should never be used in the way that would put people's lives at risk.) Provide any methods or circuit that allow ON/OFF operation using an external switch in case of failure.

5-5-2. Installation environment

- The surge protection for the transmission line may be required in areas where lightning strikes frequently occur.
- A receiver for a wireless remote controller may not work properly due to the effect of general lighting. Leave a space of at least 1 m between the general lighting and receiver.
- When the Auto-elevating panel is used and the operation is made by using a wired remote controller, install the wired remote controller to the place where all air conditioners controlled (at least the bottom part of them) can be seen from the wired remote controller. If not, the descending panel may cause damage or injury, and be sure to use a wireless remote controller designed for use with elevating panel (sold separately).
- Install the wired remote controller (switch box) to the place where the following conditions are met.
  - Where installation surface is flat
  - Where the remote controller can detect an accurate room temperature
    The temperature sensors that detect a room temperature are installed both on the remote controller and indoor unit. When a room temperature is detected using the sensor on the remote controller, the main remote controller is used to detect a room temperature. In this case, follow the instructions below.
    - Install the controller in a place where it is not subject to the heat source.
      (If the remote controller faces direct sunlight or supply air flow direction, the remote controller cannot detect an accurate room temperature.)
    - Install the controller in a place where an average room temperature can be detected.
    - Install the controller in a place where no other wires are present around the temperature sensor.
      (If other wires are present, the remote controller cannot detect an accurate room temperature.)
- To prevent unauthorized access, always use a security device such as a VPN router when connecting AG-150A, GB-50ADA, or TG-2000A to the Internet.

6. Caution for refrigerant leakage

The installer and/or air conditioning system specialist shall secure safety against refrigerant leakage according to local regulations or standards. The following standard may be applicable if no local regulation or standard is available.

6-1. Refrigerant property

R410A refrigerant is harmless and incombustible. The R410A is heavier than the indoor air in density. Leakage of the refrigerant in a room has possibility to lead to a hypoxia situation. Therefore, the Critial concentration specified below shall not be exceeded even if the leakage happens.

- **Critical concentration**

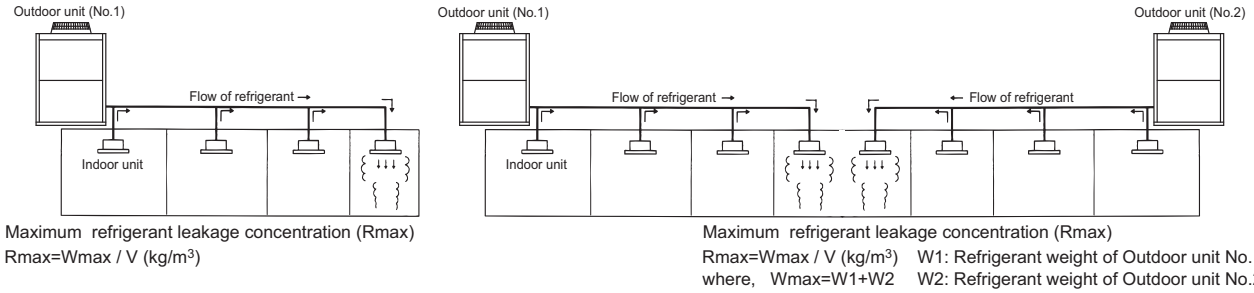
Critical concentration hereby is the refrigerant concentration in which no human body would be hurt if immediate measures can be taken when refrigerant leakage happens.

Critical concentration of R410A: 0.44kg/m^3
(The weight of refrigeration gas per 1 m^3 air conditioning space.);
* The Critical concentration is subject to ISO5149, EN378-1.

For the CITY MULTI system, the concentration of refrigerant leaked should not have a chance to exceed the Critical concentration in any situntion.

6-2. Confirm the Critical concentration and take countermeasure

The maximum refrigerant leakage concentration (Rmax) is defined as the result of the possible maximum refrigerant weight (Wmax) leaked into a room divided by its room capacity (V). It is referable to Fig.6-1. The refrigerant of Outdoor unit here includes its original charge and additional charge at the site.
The additional charge is calculated according to "**3-3 .Refrigerant charging calculation**" and shall not be over charged at the site.
Procedure 6-2-1~3 tells how to confirm maximum refrigerant leakage concentration (Rmax) and how to take countermeasures against a possible leakage.



Maximum refrigerant leakage concentration (Rmax)
Rmax=Wmax / V (kg/m^3)

Maximum refrigerant leakage concentration (Rmax)
Rmax=Wmax / V (kg/m^3) W1: Refrigerant weight of Outdoor unit No.1
where, Wmax=W1+W2 W2: Refrigerant weight of Outdoor unit No.2

Fig. 6-1 The maximum refrigerant leakage concentration

6-2-1.Find the room capacity (V),
If a room having total opening area more than 0.15% of the floor area at a low position with another room/space, the two rooms/space are considered as one.The total space shall be added up.
6-2-2.Find the possible maximum leakage (Wmax) in the room.If a room has Indoor unit(s) from more than 1 Outdoor unit, add up the refrigerant of the Outdoor units.
6-2-3.Divide (Wmax) by (V) to get the maximum refrigerant leakage concentration (Rmax).
6-2-4.Find if there is any room in which the maximum refrigerant leakage concentration (Rmax) is over 0.44kg/m^3.
If no, then the CITY MULTI is safe against refrigerant leakage.
If yes, following countermeasure is recommended to do at site.
Countermeasure 1:Let-out (making V bigger)
Design an opening of more than 0.15% of the floor area at a low position of the wall to let out the refrigerant whenever leaked.
e.g.make the upper and lower seams of door big enough.
Countermeasure 2:Smaller total charge (making Wmax smaller)
e.g.Avoid connecting more than 1 Outdoor unit to one room.
e.g.Using smaller model size but more Outdoor units.
e.g.Shorten the refrigerant piping as much as possible.
Countermeasure 3:Fresh air in from the ceiling (Ventilation)
As the density of the refrigerant is bigger than that of the air.Fresh air supply from the ceiling is better than air exhausting from the ceiling.
Fresh air supply solution refers to Fig.6-2~4.

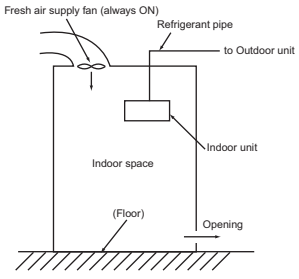


Fig.6-2.Fresh air supply always ON

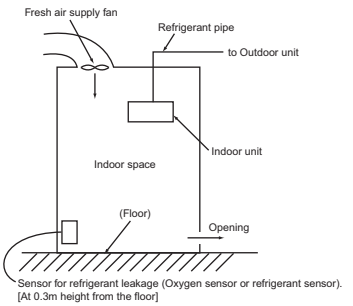


Fig.6-3.Fresh air supply upon sensor action

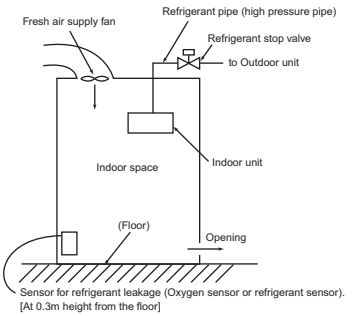


Fig.6-4.Fresh air supply and refrigerant shut-off upon sensor action

Note 1.Countermeasure 3 should be done in a proper way in which the fresh air supply shall be on whenever the leakage happens.
Note 2.In principle, MITSUBISHI ELECTRIC requires proper piping design, installation and air-tight testing after installation to avoid leakage happening.
In the area should earthquake happen, anti-vibration measures should be fully considered.
The piping should consider the extension due to the temperature variation.

CITY MULTI R410A series C7-R Revised edition

DATA BOOK

for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

⚠Warning

■ Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.

- Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, during repair, or at the time of disposal of the unit.
- It may also be in violation of applicable laws.
- MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.

MITSUBISHI ELECTRIC CORPORATION

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