

WATER-SOURCE UNITS

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1. SPECIFICATIONS

1-1. PQHY-P72~360T(S)H MU-A Specifications

Model			PQHY-P72THMU-A	PQHY-P96THMU-A
Power source			3-phase 3-wire 208 / 230 ±10% 60Hz	3-phase 3-wire 208 / 230 ±10% 60Hz
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	72,700	96,300
		kW	21.3	28.2
	Power input	kW	3.85	5.61
	Current input	A	12.2 / 11.0	17.4 / 15.8
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)	59~75° F (15~24° C)
	Circulating water		23~113° F (-5~45° C) *3	23~113° F (-5~45° C) *3
Heating capacity (Nominal) *2 (208/230V)		Btu/h	80,000	108,000
		kW	23.4	31.7
	Power input	kW	3.83	6.18
	Current input	A	11.8 / 10.7	19.1 / 17.2
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)	59~81° F (15~27° C)
	Circulating water		23~113° F (-5~45° C) *3	23~113° F (-5~45° C) *3
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity	50~130% of heat source unit capacity
	Model / Quantity		P06~P96 / 1~15	P06~P96 / 1~20
Sound pressure level (measured in anechoic room)		dB <A>	47	49
Refrigerant piping diameter	High pressure	in.(mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed (1/2 [12.7] Brazed,total length >= 295 ft [90m])
	Low pressure	in.(mm)	3/4 (19.05) Brazed	7/8 (22.2) Brazed
External finish			Acrylic painted steel plate	Acrylic painted steel plate
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	433 (196)	433 (196)
Heat exchanger	Type		Plate	Plate
	Water volume in plate	G	1.32	1.32
		l	5.0	5.0
	Water pressure Max.	psi	290	290
		MPa	2.0	2.0
Compressor	Type		Inverter scroll hermetic compressor	
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522	1,522
		G/min(gpm)	25.4	25.4
		m³ / h	5.76	5.76
		L/min	96	96
		cfm	3.4	3.4
	Pressure drop	kPa	17	17
		psi	2.47	2.47
	Operating volume range	G/h	1,189 -1,902	1,189 -1,902
		G/min(gpm)	19.8 - 31.7	19.8 - 31.7
		m³ / h	4.5 - 7.2	4.5 - 7.2
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit(comp)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
Minimum Circuit Ampacity (MCA)		A	16 / 14	22 / 20
Maximum Overcurrent Protection (MOCP)		A	25 / 20	30 / 30
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5.0 kg)	R410A x (11 lbs + 1 oz) (5.0 kg)
	Control		LEV and HIC Circuit	LEV and HIC Circuit
Drawing	External		KB94T667	KB94T667
	Wiring		KE79B307H01	KE79B307H01
Standard attachment	Document		Installation Manual	Installation Manual
	Accessory		Details refer to External Drw	Details refer to External Drw
Optional parts			Joint :CMY-Y102SS-G2	Joint :CMY-Y102SS-G2, CMY-Y102LS-G2
			Header:CMY-Y104/108/1010C-G	Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.	

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m ³ /min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P120THMU-A
Power source			3-phase 3-wire 208 / 230 ±10% 60Hz
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	120,000
		kW	35.2
	Power input	kW	7.51
	Current input	A	22.9 / 20.8
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)
	Circulating water		23~113° F (-5~45° C) *3
Heating capacity (Nominal) *2 (208/230V)		Btu/h	135,000
		kW	39.6
	Power input	kW	7.62
	Current input	A	23.5 / 21.3
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)
	Circulating water		23~113° F (-5~45° C) *3
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity
	Model / Quantity		P06~P96 / 1~26
Sound pressure level (measured in anechoic room)		dB <A>	51
Refrigerant piping diameter	High pressure	in.(mm)	3/8 (9.52) Brazed (1/2(12.7) Brazed,total length >= 131 ft. [40m])
	Low pressure	in.(mm)	7/8 (22.2) Brazed
External finish			Acrylic painted steel plate
External dimension HxWxD	mm		1,100 x 880 x 550
	in.		43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	433 (196)
Heat exchanger	Type		Plate
	Water volume in plate	G	1.32
		l	5.0
	Water pressure Max.	psi	290
		MPa	2.0
Compressor	Type		Inverter scroll hermetic compressor
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter
	Case heater	kW	0.051 (230V)
	Lubricant		MEL32
Circulating water	Water flow rate	G/h	1,522
		G/min(gpm)	25.4
		m³ / h	5.76
		L/min	96
		cfm	3.4
	Pressure drop	kPa	17
		psi	2.47
	Operating volume range	G/h	1,189 -1,902
		G/min(gpm)	19.8 - 31.7
		m³ / h	4.5 - 7.2
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit(comp)		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Minimum Circuit Ampacity (MCA)		A	29 / 26
Maximum Overcurrent Protection (MOCP)		A	50 / 40
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5.0 kg)
	Control		LEV and HIC Circuit
Drawing	External		KB94T667
	Wiring		KE79B307H01
Standard attachment	Document		Installation Manual
	Accessory		Details refer to External Drw
Optional parts		Joint: CMY-Y102SS-G2, CMY-Y102LS-G2	
		Header: CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.	

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

System			PQHY-P144TSHMU-A	
Power source			3-phase 3-wire 208 / 230 ±10% 60Hz	
Cooling capacity (Nominal) *1 (208/230V)	Btu/h		145,400	
	kW		42.6	
	Power input	kW	7.94	
	Current input	A	25.1 / 22.7	
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Heating capacity (Nominal) *2 (208/230V)	Btu/h		160,000	
	kW		46.9	
	Power input	kW	7.89	
	Current input	A	24.3 / 22.0	
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity	
	Model / Quantity		P06~P96 / 1~31	
Sound pressure level (measured in anechoic room)		dB <A>	50	
Refrigerant piping diameter	High pressure	in.(mm)	1/2 (12.7) Brazed	
	Low pressure	in.(mm)	1-1/8 (28.58) Brazed	
Module Set				
Module		PQHY-P72THMU-A		PQHY-P72THMU-A
External finish		Acrylic painted steel plate		
External dimension HxWxD	mm	1,100 x 880 x 550		1,100 x 880 x 550
	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	433 (196)	433 (196)
Heat exchanger	Type		Plate	Plate
	Water volume in plate	G	1.32	1.32
		l	5.0	5.0
	Water pressure Max.	psi	290	290
		MPa	2.0	2.0
Compressor	Type	Inverter scroll hermetic compressor		
	Manufacturer	AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method	Inverter		Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522 ± 1,522	
		G/min(gpm)	25.4 ± 25.4	
		m³ / h	5.76 ± 5.76	
		L/min	96 ± 96	
		cfm	3.4 ± 3.4	
	Pressure drop	kPa	17	17
		psi	2.47	2.47
	Operating volume range	G/h	1,189 ± 1,189 ~ 1,902 ± 1,902	
		G/min(gpm)	19.8 ± 19.8 ~ 31.7 ± 31.7	
m³ / h		4.5 ± 4.5 ~ 7.2 ± 7.2		
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit(comp)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
Minimum Circuit Ampacity (MCA)		A	16 / 14	16 / 14
Maximum Overcurrent Protection (MOCP)		A	25 / 20	25 / 20
Refrigerant	Type x original charge		R410A x (11 lbs ± 1 oz) (5 kg)	R410A x (11 lbs ± 1 oz) (5 kg)
	Control		LEV and HIC Circuit	
Pipe between unit and distributor	Liquid pipe	in.(mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in.(mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed
Drawing	External		KB94T668	
	Wiring		KE79B307H01	KE79B307H01
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts			Heat Source Twinning kit: CMY-Y100CBK3	
			Joint: CMY-Y102SS-G2, CMY-Y102LC-G2, CMY-Y202S-G2	
			Header: CMY-Y104/108/1010G-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.		

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

System			PQHY-P168TSHMU-A	
Power source			3-phase 3-wire 208-230 ±10% 60Hz	
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	169,100	
		kW	49.6	
	Power input	kW	9.73	
	Current input	A	30.5 / 27.6	
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Heating capacity (Nominal) *2 (208/230V)		Btu/h	188,000	
		kW	55.1	
	Power input	kW	10.32	
	Current input	A	31.8 / 28.8	
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity	
	Model / Quantity		P06~P96 / 1~36	
Sound pressure level (measured in anechoic room)		dB <A>	51	
Refrigerant piping diameter	High pressure	in.(mm)	5/8 (15.88) Brazed	
	Low pressure	in.(mm)	1-1/8 (28.58) Brazed	
Module Set				
Module			PQHY-P96THMU-A	PQHY-P72THMU-A
External finish			Acrylic painted steel plate	
External dimension HxWxD		mm	1,100 x 880 x 550	
		in.	43-5/16 x 34-11/16 x 21-11/16	
Net weight		lbs(kg)	433 (196)	
Heat exchanger	Type		Plate	
	Water volume in plate	G	1.32	
		l	5.0	
	Water pressure Max.	psi	290	
		MPa	2.0	
Compressor	Type		Inverter scroll hermetic compressor	
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Case heater	kW	0.051 (230V)	
	Lubricant		MEL32	
Circulating water	Water flow rate	G/h	1,522 + 1,522	
		G/min(gpm)	25.4 + 25.4	
		m³ / h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	17	17
		psi	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 ~ 1,902 + 1,902	
		G/min(gpm)	19.8 + 19.8 ~ 31.7 + 31.7	
		m³ / h	4.5 + 4.5 ~ 7.2 + 7.2	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit(comp)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
Minimum Circuit Ampacity(MCA)		A	22 / 20	16 / 14
Maximum Overcurrent Protection(MOCP)		A	30 / 30	25 / 20
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit	
Pipe between unit and distributor	Liquid pipe	in.(mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T668	
	Wiring		KE79B307H01	KE79B307H01
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts			Heat Source Twinning kit : CMY-Y100CBK3	
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2	
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.	

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

System			PQHY-P192TSHMU-A	
Power source			3-phase 3-wire 208 / 230 ±10% 60Hz	
Cooling capacity (Nominal) *1 (208/230V)	Btu/h		192,600	
		kW	56.4	
	Power input	kW	11.55	
			Current input	A
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Heating capacity (Nominal) *2 (208/230V)	Btu/h		216,000	
		kW	63.3	
	Power input	kW	12.74	
			Current input	A
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity	
	Model / Quantity		P06~P96 / 1~41	
Sound pressure level (measured in anechoic room)		dB <A>	52	
Refrigerant piping diameter	High pressure	in.(mm)	5/8 (15.88) Brazed	
	Low pressure	in.(mm)	1-1/8 (28.58) Brazed	
Module Set				
Module		PQHY-P96THMU-A		PQHY-P96THMU-A
External finish		Acrylic painted steel plate		
External dimension HxWxD	mm	1,100 x 880 x 550		1,100 x 880 x 550
	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	433 (196)	433 (196)
Heat exchanger	Type		Plate	Plate
	Water volume in plate	G	1.32	1.32
		I	5.0	5.0
	Water pressure Max.	psi	290	290
		MPa	2.0	2.0
Compressor	Type	Inverter scroll hermetic compressor		
	Manufacturer	AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method	Inverter		Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)
	Lubricant	MEL32		MEL32
Circulating water	Water flow rate	G/h	1,522 + 1,522	
		G/min(gpm)	25.4 + 25.4	
		m³ / h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	17	17
		psi	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 ~ 1,902 + 1,902	
		G/min(gpm)	19.8 + 19.8 ~ 31.7 + 31.7	
		m³ / h	4.5 + 4.5 ~ 7.2 + 7.2	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit(comp)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
Minimum Circuit Ampacity (MCA)		A	22 / 20	22 / 20
Maximum Overcurrent Protection (MOCP)		A	30 / 30	30 / 30
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit	
Pipe between unit and distributor	Liquid pipe	in.(mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T668	
	Wiring		KE79B307H01	KE79B307H01
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts			Heat Source Twinning kit : CMY-Y100CBK3	
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2	
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.	

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3.412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

System			PQHY-P216TSHMU-A	
Power source			3-phase 3-wire 208 / 230 ±10% 60Hz	
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	216,000	
		kW	63.3	
	Power input	kW	13.50	
	Current input	A	41.6 / 37.6	
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Heating capacity (Nominal) *2 (208/230V)		Btu/h	243,000	
		kW	71.2	
	Power input	kW	14.22	
	Current input	A	43.9 / 39.7	
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity	
	Model / Quantity		P06~P96 / 2~46	
Sound pressure level (measured in anechoic room)		dB <A>	53	
Refrigerant piping diameter	High pressure	in.(mm)	5/8 (15.88) Brazed	
	Low pressure	in.(mm)	1-1/8 (28.58) Brazed	
Module Set				
Module		PQHY-P120THMU-A		PQHY-P96THMU-A
External finish		Acrylic painted steel plate		
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	433 (196)	433 (196)
Heat exchanger	Type		Plate	Plate
	Water volume in plate	G	1.32	1.32
		l	5.0	5.0
	Water pressure Max.	psi	290	290
		MPa	2.0	2.0
Compressor	Type	Inverter scroll hermetic compressor		
	Manufacturer	AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method	Inverter		Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)
	Lubricant	MEL32		MEL32
Circulating water	Water flow rate	G/h	1522 + 1522	
		G/min(gpm)	25.4 + 25.4	
		m³ / h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	17	17
		psi	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 ~ 1,902 + 1,902	
		G/min(gpm)	19.8 + 19.8 ~ 31.7 + 31.7	
		m³ / h	4.5 + 4.5 ~ 7.2 + 7.2	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit(comp)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
Minimum Circuit Ampacity (MCA)		A	29 / 26	22 / 20
Maximum Overcurrent Protection (MOCP)		A	50 / 40	30 / 30
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit	
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T668	
	Wiring		KE79B307H01	KE79B307H01
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts	Heat Source Twinning kit : CMY-Y100CBK3			
	Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2			
	Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.	

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3.412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

System			PQHY-P240TSHMU-A	
Power source			3-phase 3-wire 208 / 230 ±10% 60Hz	
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	240,000	
		kW	70.3	
	Power input	kW	15.47	
	Current input	A	47.3 / 42.8	
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Heating capacity (Nominal) *2 (208/230V)		Btu/h	270,000	
		kW	79.1	
	Power input	kW	15.70	
	Current input	A	48.4 / 43.8	
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity	
	Model / Quantity		P06~P96 / 2~50	
Sound pressure level (measured in anechoic room)		dB <A>	54	
Refrigerant piping diameter	High pressure	in.(mm)	5/8 (15.88) Brazed	
	Low pressure	in.(mm)	1-1/8 (28.58) Brazed	
Module Set				
Module		PQHY-P120THMU-A		PQHY-P120THMU-A
External finish		Acrylic painted steel plate		
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	433 (196)	433 (196)
Heat exchanger	Type		Plate	Plate
	Water volume in plate	G	1.32	1.32
		l	5.0	5.0
	Water pressure Max.	psi	290	290
		MPa	2.0	2.0
Compressor	Type	Inverter scroll hermetic compressor		
	Manufacturer	AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method	Inverter		Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522 + 1,522	
		G/min(gpm)	25.4 + 25.4	
		m³ / h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	17	17
		psi	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 ~ 1,902 + 1,902	
		G/min(gpm)	19.8 + 19.8 ~ 31.7 + 31.7	
		m³ / h	4.5 + 4.5 ~ 7.2 + 7.2	
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit(comp)	Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		
Minimum Circuit Ampacity(MCA)		A	29 / 26	29 / 26
Maximum Overcurrent Protection(MOCP)		A	50 / 40	50 / 40
Refrigerant	Type x original charge	R410A x (11 lbs + 1 oz) (5 kg)		R410A x (11 lbs + 1 oz) (5 kg)
	Control	LEV and HIC Circuit		
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External	KB94T668		
	Wiring	KE79B307H01		KE79B307H01
Standard attachment	Document	Installation Manual		
	Accessory	Details refer to External Drw		
Optional parts	Heat Source Twinning kit : CMY-Y100CBK3			
	Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2			
	Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.		

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

System			PQHY-P264TSHMU-A		
Power source			3-phase 3-wire 208 / 230 ±10% 60Hz		
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	265,400		
		kW	77.8		
	Power input	kW	15.49		
	Current input	A	48.5 / 43.8		
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Heating capacity (Nominal) *2 (208/230V)		Btu/h	296,000		
		kW	86.8		
	Power input	kW	16.68		
	Current input	A	51.4 / 46.5		
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity		
	Model / Quantity		P06~P96 / 2~50		
Sound pressure level (measured in anechoic room)		dB <A>	53		
Refrigerant piping diameter	High pressure	in.(mm)	3/4 (19.05) Brazed		
	Low pressure	in.(mm)	1-3/8 (34.93) Brazed		
Module Set					
Module			PQHY-P96THMU-A	PQHY-P96THMU-A	PQHY-P72THMU-A
External finish			Acrylic painted steel plate		
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	433 (196)	433 (196)	433 (196)
Heat exchanger	Type		Plate	Plate	Plate
	Water volume in plate	G	1.32	1.32	1.32
		l	5.0	5.0	5.0
	Water pressure Max.	psi	290	290	290
		MPa	2.0	2.0	2.0
Compressor	Type		Inverter scroll hermetic compressor		
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter	Inverter	Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522 + 1,522 + 1,522		
		G/min(gpm)	25.4 + 25.4 + 25.4		
		m³ / h	5.76 + 5.76 + 5.76		
		L/min	96 + 96 + 96		
		cfm	3.4 + 3.4 + 3.4		
	Pressure drop	kPa	17	17	17
		psi	2.47	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 + 1,189 ~ 1,902 + 1,902 + 1,902		
		G/min(gpm)	19.8 + 19.8 + 19.8 ~ 31.7 + 31.7 + 31.7		
m³ / h		4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2			
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit(comp)		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection		
Minimum Circuit Ampacity (MCA)		A	22 / 20	22 / 20	16 / 14
Maximum Overcurrent Protection (MOCP)		A	30 / 30	30 / 30	25 / 20
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit		
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T669		
	Wiring		KE79B307H01	KE79B307H01	KE79B307H01
Standard attachment	Document		Installation Manual		
	Accessory		Details refer to External Drw		
Optional parts			Heat Source Twinning kit : CMY-Y300CBK2		
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2		
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.		

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P288TSHMU-A		
Power source			3-phase 3-wire 208 / 230 ±10% 60Hz		
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	288,900		
		kW	84.7		
	Power input	kW	17.32		
	Current input	A	53.8 / 48.7		
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Heating capacity (Nominal) *2 (208/230V)		Btu/h	324,000		
		kW	95.0		
	Power input	kW	19.10		
	Current input	A	58.9 / 53.3		
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity		
	Model / Quantity		P06~P96 / 2~50		
Sound pressure level (measured in anechoic room)		dB <A>	54		
Refrigerant piping diameter	High pressure	in.(mm)	3/4 (19.05) Brazed		
	Low pressure	in.(mm)	1-3/8 (34.93) Brazed		
Module Set					
Module			PQHY-P96THMU-A	PQHY-P96THMU-A	PQHY-P96THMU-A
External finish			Acrylic painted steel plate		
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	433 (196)	433 (196)	433 (196)
Heat exchanger	Type		Plate	Plate	Plate
	Water volume in plate	G	1.32	1.32	1.32
		l	5.0	5.0	5.0
	Water pressure Max.	psi	290	290	290
		MPa	2.0	2.0	2.0
Compressor	Type		Inverter scroll hermetic compressor		
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	6.2	6.2	6.2
	Case heater	kW	0.051 (230V)	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522 + 1,522 + 1,522		
		G/min(gpm)	25.4 + 25.4 + 25.4		
		m³ / h	5.76 + 5.76 + 5.76		
		L/min	96 + 96 + 96		
		cfm	3.4 + 3.4 + 3.4		
	Pressure drop	kPa	17	17	17
		psi	2.47	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 + 1,189 ~ 1,902 + 1,902 + 1,902		
		G/min(gpm)	19.8 + 19.8 + 19.8 ~ 31.7 + 31.7 + 31.7		
m³ / h		4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2			
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit(comp)		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection		
Minimum Circuit Ampacity(MCA)		A	22 / 20	22 / 20	22 / 20
Maximum Overcurrent Protection(MOCP)		A	30 / 30	30 / 30	30 / 30
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit		
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T669		
	Wiring		KE79B307H01	KE79B307H01	KE79B307H01
Standard attachment	Document		Installation Manual		
	Accessory				
Optional parts			Details refer to External Drw		
			Heat Source Twinning kit : CMY-Y300CBK2		
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2		
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and alvcol must be used in the water loop to prevent freezing down to 5° F.		

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3.412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P312TSHMU-A			
Power source			3-phase 3-wire 208 / 230 ±10% 60Hz			
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	312,200			
		kW	91.5			
		Power input	kW			19.27
		Current input	A			59.6 / 53.9
Temp. range of cooling		Indoor	W.B.			59~75° F (15~24° C)
		Circulating water				23~113° F (-5~45° C) *3
Heating capacity (Nominal) *2 (208/230V)		Btu/h	351,000			
		kW	102.9			
		Power input	kW			20.58
		Current input	A			63.5 / 57.4
Temp. range of heating		Indoor	D.B.			59~81° F (15~27° C)
		Circulating water				23~113° F (-5~45° C) *3
Indoor unit connectable		Total capacity		50~130% of heat source unit capacity		
		Model / Quantity		P06~P96 / 2~50		
Sound pressure level (measured in anechoic room)		dB <A>	54.5			
Refrigerant piping diameter		High pressure	in.(mm)			3/4 (19.05) Brazed
		Low pressure	in.(mm)			1-3/8 (34.93) Brazed
Module Set						
Module		PQHY-P120THMU-A		PQHY-P96THMU-A	PQHY-P96THMU-A	
External finish		Acrylic painted steel plate				
External dimension HxWxD		mm	1,100 x 880 x 550		1,100 x 880 x 550	
		in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16	
Net weight		lbs(kg)	433 (196)		433 (196)	
Heat exchanger	Type	Plate				
	Water volume in plate	G	1.32		1.32	
		l	5.0		5.0	
	Water pressure Max.	psi	290		290	
		MPa	2.0		2.0	
Compressor	Type	Inverter scroll hermetic compressor				
	Manufacturer	AC&R Works, MITSUBISHI ELECTRIC CORPORATION				
	Starting method	Inverter		Inverter	Inverter	
	Case heater	kW	0.051 (230V)	0.051 (230V)	0.051 (230V)	
	Lubricant	MEL32		MEL32	MEL32	
Circulating water	Water flow rate	G/h	1,522 + 1,522 + 1,522			
		G/min(gpm)	25.4 + 25.4 + 25.4			
		m³ / h	5.76 + 5.76 + 5.76			
		L/min	96 + 96 + 96			
		cfm	3.4 + 3.4 + 3.4			
	Pressure drop	kPa	17	17	17	
		psi	2.47	2.47	2.47	
	Operating volume range	G/h	1,189 + 1,189 + 1,189 ~ 1,902 + 1,902 + 1,902			
		G/min(gpm)	19.8 + 19.8 + 19.8 ~ 31.7 + 31.7 + 31.7			
		m³ / h	4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2			
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure				
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit(comp)		Over-heat protection, Over-current protection			
	Compressor		Over-heat protection			
Minimum Circuit Ampacity (MCA)		A	29 / 26	22 / 20	22 / 20	
Maximum Overcurrent Protection (MOCP)		A	50 / 40	30 / 30	30 / 30	
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	
	Control		LEV and HIC Circuit			
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	
Drawing	External		KB94T669			
	Wiring		KE79B307H01	KE79B307H01	KE79B307H01	
Standard attachment	Document		Installation Manual			
	Accessory		Details refer to External Drw			
Optional parts		Heat Source Twinning kit : CMY-Y300CBK2				
		Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2				
		Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.				

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P336TSHMU-A		
Power source			3-phase 3-wire 208 / 230 ±10% 60Hz		
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	336,000		
		kW	98.5		
	Power input	kW	21.23		
	Current input	A	65.2 / 59.0		
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Heating capacity (Nominal) *2 (208/230V)		Btu/h	378,000		
		kW	110.8		
	Power input	kW	22.07		
	Current input	A	68.1 / 61.6		
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity		
	Model / Quantity		P06~P96 / 2~50		
Sound pressure level (measured in anechoic room)		dB <A>	55		
Refrigerant piping diameter	High pressure	in.(mm)	3/4 (19.05) Brazed		
	Low pressure	in.(mm)	1-5/8 (41.28) Brazed		
Module Set					
Module			PQHY-P120THMU-A	PQHY-P120THMU-A	PQHY-P96THMU-A
External finish			Acrylic painted steel plate		
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	433 (196)	433 (196)	433 (196)
Heat exchanger	Type		Plate	Plate	Plate
	Water volume in plate	G	1.32	1.32	1.32
		l	5.0	5.0	5.0
	Water pressure Max.	psi	290	290	290
		MPa	2.0	2.0	2.0
Compressor	Type		Inverter scroll hermetic compressor		
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter	Inverter	Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522 + 1,522 + 1,522		
		G/min(gpm)	25.4 + 25.4 + 25.4		
		m³ / h	5.76 + 5.76 + 5.76		
		L/min	96 + 96 + 96		
		cfm	3.4 + 3.4 + 3.4		
	Pressure drop	kPa	17	17	17
		psi	2.47	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 + 1,189 ~ 1,902 + 1,902 + 1,902		
		G/min(gpm)	19.8 + 19.8 + 19.8 ~ 31.7 + 31.7 + 31.7		
		m³ / h	4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit(comp)		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection		
Minimum Circuit Ampacity(MCA)		A	29 / 26	29 / 26	22 / 20
Maximum Overcurrent Protection(MOCP)		A	50 / 40	50 / 40	30 / 30
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit		
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T669		
	Wiring		KE79B307H01	KE79B307H01	KE79B307H01
Standard attachment	Document		Installation Manual		
	Accessory		Details refer to External Drw		
Optional parts			Heat Source Twinning kit : CMY-Y300CBK2		
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2		
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.		

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P360TSHMU-A			
Power source			3-phase 3-wire 208 / 230 ±10% 60Hz			
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	360,000			
		kW	105.5			
		Power input	kW			23.21
		Current input	A			70.9 / 64.1
Temp. range of cooling		Indoor	W.B.			59~75° F (15~24° C)
		Circulating water				23~113° F (-5~45° C) *3
Heating capacity (Nominal) *2 (208/230V)		Btu/h	405,000			
		kW	118.7			
		Power input	kW			23.55
		Current input	A			72.6 / 65.7
Temp. range of heating		Indoor	D.B.			59~81° F (15~27° C)
		Circulating water				23~113° F (-5~45° C) *3
Indoor unit connectable		Total capacity	50~130% of heat source unit capacity			
		Model / Quantity	P06-P96 / 2~50			
Sound pressure level (measured in anechoic room)			56			
Refrigerant piping diameter		Liquid pipe	in.(mm)	3/4 (19.05) Brazed		
		Gas pipe	in.(mm)	1-5/8 (41.28) Brazed		
Module Set						
Module			PQHY-P120THMU-A	PQHY-P120THMU-A	PQHY-P120THMU-A	
External finish			Acrylic painted steel plate			
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	
Net weight		lbs(kg)	433 (196)	433 (196)	433 (196)	
Heat exchanger		Type	Plate	Plate	Plate	
		Water volume in plate	G	1.32	1.32	1.32
			l	5.0	5.0	5.0
		Water pressure Max.	psi	290	290	290
			MPa	2.0	2.0	2.0
Compressor		Type	Inverter scroll hermetic compressor			
		Manufacturer	AC&R Works, MITSUBISHI ELECTRIC CORPORATION			
		Starting method	Inverter	Inverter	Inverter	
		Case heater	kW	0.051 (230V)	0.051 (230V)	0.051 (230V)
		Lubricant		MEL32	MEL32	MEL32
Circulating water		Water flow rate	G/h	1,522 + 1,522 + 1,522		
			G/min(gpm)	25.4 + 25.4 + 25.4		
			m³ / h	5.76 + 5.76 + 5.76		
			L/min	96 + 96 + 96		
			cfm	3.4 + 3.4 + 3.4		
		Pressure drop	kPa	17	17	17
			psi	2.47	2.47	2.47
		Operating volume range	G/h	1,189 + 1,189 + 1,189 ~ 1,902 + 1,902 + 1,902		
			G/min(gpm)	19.8 + 19.8 + 19.8 ~ 31.7 + 31.7 + 31.7		
			m³ / h	4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure			
Protection devices		High pressure protection				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
		Inverter circuit(comp)				Over-heat protection, Over-current protection
		Compressor				Over-heat protection
Minimum Circuit Ampacity(MCA)		A	29 / 26	29 / 26	29 / 26	
Maximum Overcurrent Protection(MOCP)		A	50 / 40	50 / 40	50 / 40	
Refrigerant		Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
		Control		LEV and HIC Circuit		
Pipe between unit and distributor		Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
		Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing		External		KB94T669		
		Wiring		KE79B307H01	KE79B307H01	KE79B307H01
Standard attachment		Document		Installation Manual		
		Accessory		Details refer to External Drw		
Optional parts			Heat Source Twinning kit : CMY-Y300CBK2			
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2			
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.			

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3.412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

1-2. PQHY-P72~360Y(S)HMU-A Specifications

Model			PQHY-P72YHMu-A	PQHY-P96YHMu-A
Power source			3-phase 3-wire 460 ±10% 60Hz	3-phase 3-wire 460 ±10% 60Hz
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	72,700	96,300
		kW	21.3	28.2
	Power input	kW	3.85	5.61
	Current input	A	5.5	7.8
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)	59~75° F (15~24° C)
	Circulating water		23~113° F (-5~45° C) *3	50~113° F (10~45° C) *3
Heating capacity (Nominal) *2 (208/230V)		Btu/h	80,000	108,000
		kW	23.4	31.7
	Power input	kW	3.83	6.18
	Current input	A	5.3	8.6
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)	59~81° F (15~27° C)
	Circulating water		23~113° F (-5~45° C) *3	50~113° F (10~45° C) *3
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity	50~130% of heat source unit capacity
	Model / Quantity		P06~P96 / 1~15	P06~P96 / 1~20
Sound pressure level (measured in anechoic room)		dB <A>	47	49
Refrigerant piping diameter	Liquid pipe	in.(mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed (1/2(12.7) Brazed,total length >= 295 ft [90m])
	Gas pipe	in.(mm)	3/4 (19.05) Brazed	7/8 (22.2) Brazed
External finish			Acrylic painted steel plate	Acrylic painted steel plate
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	459 (208)	459 (208)
Heat exchanger	Type		Plate	Plate
	Water volume in plate	G	1.32	1.32
		l	5.0	5.0
	Water pressure Max.	psi	290	290
MPa		2.0	2.0	
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter	Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522	1,522
		G/min(gpm)	25.4	25.4
		m³ / h	5.76	5.76
		L/min	96	96
		cfm	3.4	3.4
	Pressure drop	kPa	17	17
		psi	2.47	2.47
	Operating volume range	G/h	1,189 -1,902	1,189 -1,902
		G/min(gpm)	19.8-31.7	19.8-31.7
		m³ / h	4.5-7.2	4.5-7.2
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure
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)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Minimum Circuit Ampacity(MCA)		A	7	10
Maximum Overcurrent Protection(MOCP)		A	15	15
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5.0 kg)	R410A x (11 lbs + 1 oz) (5.0 kg)
	Control		LEV and HIC Circuit	LEV and HIC Circuit
Drawing	External		KB94T573	KB94T573
	Wiring		KE79B309H01	KE79B309H01
Standard attachment	Document		Installation Manual	Installation Manual
	Accessory		Details refer to External Drw	Details refer to External Drw
Optional parts			Joint :CMY-Y102SS-G2	Joint :CMY-Y102SS-G2, CMY-Y102LS-G2
			Header:CMY-Y104/108/1010C-G	Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.	

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3.412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P120YHMU-A
Power source			3-phase 3-wire 460 ±10% 60Hz
Cooling capacity (Nominal) *1 (208/230V)	Btu/h		120,000
	kW		35.2
	Power input	kW	7.51
	Current input	A	10.3
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)
	Circulating water		23~113° F (-5~45° C) *3
Heating capacity (Nominal) *2 (208/230V)	Btu/h		135,000
	kW		39.6
	Power input	kW	7.62
	Current input	A	10.6
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)
	Circulating water		23~113° F (-5~45° C) *3
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity
	Model / Quantity		P06~P96 / 1~26
Sound pressure level (measured in anechoic room)		dB <A>	51
Refrigerant piping	Liquid pipe	in.(mm)	3/8 (9.52) Brazed (1/2(12.7) Brazed,total length >= 131 ft. [40m])
	Gas pipe	in.(mm)	7/8 (22.2) Brazed
External finish		Acrylic painted steel plate	
External dimension HxWxD	mm		1,100 x 880 x 550
	in.		43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	459 (208)
Heat exchanger	Type		Plate
	Water volume in plate	G	1.32
		l	5.0
	Water pressure Max.	psi	290
MPa		2.0	
Compressor	Type		Inverter scroll hermetic compressor
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter
	Case heater	kW	0.051 (230V)
	Lubricant		MEL32
Circulating water	Water flow rate	G/h	1,522
		G/min(gpm)	25.4
		m³ / h	5.76
		L/min	96
		cfm	3.4
	Pressure drop	kPa	17
		psi	2.47
	Operating volume range	G/h	1,189 -1,902
		G/min(gpm)	19.8-31.7
		m³ / h	4.5-7.2
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit(comp)		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Minimum Circuit Ampacity(MCA)		A	13
Maximum Overcurrent Protection(MOCP)		A	20
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5.0 kg)
	Control		LEV and HIC Circuit
Drawing	External		KB94T573
	Wiring		KE79B309H01
Standard attachment	Document		Installation Manual
	Accessory		Details refer to External Drw
Optional parts			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2 Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P144YSHMU-A	
Power source			3-phase 3-wire 460 ±10% 60Hz	
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	145,400	
		kW	42.6	
	Power input	kW	7.94	
	Current input	A	11.3	
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Heating capacity (Nominal) *2 (208/230V)		Btu/h	160,000	
		kW	46.9	
	Power input	kW	7.89	
	Current input	A	11.0	
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity	
	Model / Quantity		P06~P96 / 1~31	
Sound pressure level (measured in anechoic room)		dB <A>	50	
Refrigerant piping diameter	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	
	Gas pipe	in.(mm)	1-1/8 (28.58) Brazed	
Module Set				
Module			PQHY-P72YHMU-A	PQHY-P72YHMU-A
External finish			Acrylic painted steel plate	
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	459 (208)	459 (208)
Heat exchanger	Type		Plate	Plate
	Water volume in plate	G	1.32	1.32
		l	5.0	5.0
	Water pressure Max.	psi	290	290
		MPa	2.0	2.0
Compressor	Type	Inverter scroll hermetic compressor		
	Manufacturer	AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method	Inverter		Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)
	Lubricant	MEL32		MEL32
Circulating water	Water flow rate	G/h	1,522 + 1,522	
		G/min(gpm)	25.4 + 25.4	
		m³ / h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	17	17
		psi	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 ~ 1,902 + 1,902	
		G/min(gpm)	19.8 + 19.8 ~ 31.7 + 31.7	
		m³ / h	4.5 + 4.5 ~ 7.2 + 7.2	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit(comp)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
Minimum Circuit Ampacity(MCA)		A	7	7
Maximum Overcurrent Protection(MOCP)		A	15	15
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit	
Pipe between unit and distributor	Liquid pipe	in.(mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in.(mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed
Drawing	External		KB94T574	
	Wiring		KE79B309H01	KE79B309H01
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts			Heat Source Twinning kit : CMY-Y100CBK3	
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2	
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.	

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P168YSHMU-A	
Power source			3-phase 3-wire 460±10% 60Hz	
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	169,100	
		kW	49.6	
	Power input	kW	9.73	
	Current input	A	13.7	
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Heating capacity (Nominal) *2 (208/230V)		Btu/h	188,000	
		kW	55.1	
	Power input	kW	10.32	
	Current input	A	14.3	
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity	
	Model / Quantity		P06~P96 / 1~36	
Sound pressure level (measured in anechoic room)		dB <A>	51	
Refrigerant piping diameter	Liquid pipe	in.(mm)	5/8 (15.88) Brazed	
	Gas pipe	in.(mm)	1-1/8 (28.58) Brazed	
Module Set				
Module		PQHY-P96YHMU-A		PQHY-P72YHMU-A
External finish		Acrylic painted steel plate		
External dimension HxWxD	mm	1,100 x 880 x 550		1,100 x 880 x 550
	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	459 (208)	459 (208)
Heat exchanger	Type		Plate	Plate
	Water volume in plate	G	1.32	1.32
		l	5.0	5.0
	Water pressure Max.	psi	290	290
MPa		2.0	2.0	
Compressor	Type	Inverter scroll hermetic compressor		
	Manufacturer	AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method	Inverter	Inverter	
	Case heater	kW	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522 + 1,522	
		G/min(gpm)	25.4 + 25.4	
		m³ / h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	17	17
		psi	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 ~ 1,902 + 1,902	
		G/min(gpm)	19.8 + 19.8 ~ 31.7 + 31.7	
		m³ / h	4.5 + 4.5 ~ 7.2 + 7.2	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit(comp)	Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		
Minimum Circuit Ampacity(MCA)		A	10	7
Maximum Overcurrent Protection(MOCP)		A	15	15
Refrigerant	Type x original charge	R410A x (11 lbs + 1 oz) (5 kg)		R410A x (11 lbs + 1 oz) (5 kg)
	Control	LEV and HIC Circuit		
Pipe between unit and distributor	Liquid pipe	in.(mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External	KB94T574		
	Wiring		KE79B309H01	KE79B309H01
Standard attachment	Document	Installation Manual		
	Accessory	Details refer to External Drw		
Optional parts		Heat Source Twinning kit : CMY-Y100CBK3		
		Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2		
		Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.		

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P192YSHMU-A	
Power source			3-phase 3-wire 460 ±10% 60Hz	
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	192,600	
		kW	56.4	
	Power input	kW	11.55	
	Current input	A	16.2	
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Heating capacity (Nominal) *2 (208/230V)		Btu/h	216,000	
		kW	63.3	
	Power input	kW	12.74	
	Current input	A	17.7	
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity	
	Model / Quantity		P06~P96 / 1~41	
Sound pressure level (measured in anechoic room)		dB <A>	52	
Refrigerant piping diameter	Liquid pipe	in.(mm)	5/8 (15.88) Brazed	
	Gas pipe	in.(mm)	1-1/8 (28.58) Brazed	
Module Set				
Module		PQHY-P96YHMU-A		PQHY-P96YHMU-A
External finish		Acrylic painted steel plate		
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	459 (208)	459 (208)
Heat exchanger	Type		Plate	Plate
	Water volume in plate	G	1.32	1.32
		l	5.0	5.0
	Water pressure Max.	psi	290	290
		MPa	2.0	2.0
Compressor	Type	Inverter scroll hermetic compressor		
	Manufacturer	AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method	Inverter	Inverter	
	Case heater	kW	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522 + 1,522	
		G/min(gpm)	25.4 + 25.4	
		m³ / h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	17	17
		psi	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 ~ 1,902 + 1,902	
		G/min(gpm)	19.8 + 19.8 ~ 31.7 + 31.7	
m³ / h		4.5 + 4.5 ~ 7.2 + 7.2		
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit(comp)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
Minimum Circuit Ampacity(MCA)		A	10	10
Maximum Overcurrent Protection(MOCP)		A	15	15
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit	
Pipe between unit and distributor	Liquid pipe	in.(mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T574	
	Wiring		KE79B309H01	KE79B309H01
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts		Heat Source Twinning kit : CMY-Y100CBK3		
		Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2		
		Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.		

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3.412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P216YSHMU-A	
Power source			3-phase 3-wire 460 ±10% 60Hz	
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	216,000	
		kW	63.3	
	Power input	kW	13.50	
	Current input	A	18.8	
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Heating capacity (Nominal) *2 (208/230V)		Btu/h	243,000	
		kW	71.2	
	Power input	kW	14.22	
	Current input	A	19.8	
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity	
	Model / Quantity		P06~P96 / 2~46	
Sound pressure level (measured in anechoic room)		dB <A>	53	
Refrigerant piping diameter	Liquid pipe	in.(mm)	5/8 (15.88) Brazed	
	Gas pipe	in.(mm)	1-1/8 (28.58) Brazed	
Module Set				
Module			PQHY-P120YHMU-A	PQHY-P96YHMU-A
External finish			Acrylic painted steel plate	
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	459 (208)	459 (208)
Heat exchanger	Type		Plate	Plate
	Water volume in plate	G	1.32	1.32
		l	5.0	5.0
	Water pressure Max.	psi	290	290
		MPa	2.0	2.0
Compressor	Type		Inverter scroll hermetic compressor	
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	Inverter
	Motor output	kW	8.5	6.3
	Case heater	kW	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522 + 1,522	
		G/min(gpm)	25.4 + 25.4	
		m³ / h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	17	17
		psi	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 ~ 1,902 + 1,902	
		G/min(gpm)	19.8 + 19.8 ~ 31.7 + 31.7	
		m³ / h	4.5 + 4.5 ~ 7.2 + 7.2	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit(comp)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
Minimum Circuit Ampacity(MCA)		A	13	10
Maximum Overcurrent Protection(MOCP)		A	20	15
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit	
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T574	
	Wiring		KE79B309H01	KE79B309H01
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts			Heat Source Twinning kit : CMY-Y100CBK3	
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2	
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.	

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P240YSHMU-A	
Power source			3-phase 3-wire 460 ±10% 60Hz	
Cooling capacity (Nominal) *1 (208/230V)	Btu/h		240,000	
	kW		70.3	
	Power input	kW	15.47	
	Current input	A	21.3	
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Heating capacity (Nominal) *2 (208/230V)	Btu/h		270,000	
	kW		79.1	
	Power input	kW	15.70	
	Current input	A	21.8	
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)	
	Circulating water		23~113° F (-5~45° C) *3	
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity	
	Model / Quantity		P06~P96 / 2~50	
Sound pressure level (measured in anechoic room)		dB <A>	54	
Refrigerant piping diameter	Liquid pipe	in.(mm)	5/8 (15.88) Brazed	
	Gas pipe	in.(mm)	1-1/8 (28.58) Brazed	
Module Set				
Module			PQHY-P120YHMU-A	PQHY-P120YHMU-A
External finish			Acrylic painted steel plate	
External dimension HxWxD	mm		1,100 x 880 x 550	1,100 x 880 x 550
	in.		43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	459 (208)	459 (208)
Heat exchanger	Type		Plate	Plate
	Water volume in plate	G	1.32	1.32
		l	5.0	5.0
	Water pressure Max.	psi	290	290
		MPa	2.0	2.0
Compressor	Type		Inverter scroll hermetic compressor	
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522 + 1,522	
		G/min(gpm)	25.4 + 25.4	
		m³ / h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	17	17
		psi	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 ~ 1,902 + 1,902	
		G/min(gpm)	19.8 + 19.8 ~ 31.7 + 31.7	
		m³ / h	4.5 + 4.5 ~ 7.2 + 7.2	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit(comp)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
Minimum Circuit Ampacity(MCA)		A	13	13
Maximum Overcurrent Protection(MOCP)		A	20	20
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit	
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T574	
	Wiring		KE79B309H01	KE79B309H01
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts			Heat Source Twinning kit : CMY-Y100CBK3	
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2	
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.			

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P264YSHMU-A		
Power source			3-phase 3-wire 460 ±10% 60Hz		
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	265,400		
		kW	77.8		
	Power input	kW	15.49		
	Current input	A	21.9		
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Heating capacity (Nominal) *2 (208/230V)		Btu/h	296,000		
		kW	86.8		
	Power input	kW	16.68		
	Current input	A	23.2		
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity		
	Model / Quantity		P06~P96 / 2~50		
Sound pressure level (measured in anechoic room)		dB <A>	53		
Refrigerant piping diameter	Liquid pipe	in.(mm)	3/4 (19.05) Brazed		
	Gas pipe	in.(mm)	1-3/8 (34.93) Brazed		
Module Set					
Module			PQHY-P96YHMu-A	PQHY-P96YHMu-A	PQHY-P72YHMu-A
External finish			Acrylic painted steel plate		
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	459 (208)	459 (208)	459 (208)
Heat exchanger	Type		Plate	Plate	Plate
	Water volume in plate	G	1.32	1.32	1.32
		l	5.0	5.0	5.0
	Water pressure Max.	psi	290	290	290
		MPa	2.0	2.0	2.0
Compressor	Type		Inverter scroll hermetic compressor		
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter	Inverter	Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522 + 1,522 + 1,522		
		G/min(gpm)	25.4 + 25.4 + 25.4		
		m³ / h	5.76 + 5.76 + 5.76		
		L/min	96 + 96 + 96		
		cfm	3.4 + 3.4 + 3.4		
	Pressure drop	kPa	17	17	17
		psi	2.47	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 + 1,189 ~ 1,902 + 1,902 + 1,902		
		G/min(gpm)	19.8 + 19.8 + 19.8 ~ 31.7 + 31.7 + 31.7		
m³ / h		4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2			
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit(comp)		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection		
Minimum Circuit Ampacity(MCA)		A	10	10	7
Maximum Overcurrent Protection(MOCP)		A	15	15	15
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit		
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T664		
	Wiring		KE79B309H01	KE79B309H01	KE79B309H01
Standard attachment	Document		Installation Manual		
	Accessory		Details refer to External Drw		
Optional parts			Heat Source Twinning kit : CMY-Y300CBK2		
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2		
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.		

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P288YSHMU-A		
Power source			3-phase 3-wire 460 ±10% 60Hz		
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	288,900		
		kW	84.7		
	Power input	kW	17.32		
	Current input	A	24.3		
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Heating capacity (Nominal) *2 (208/230V)		Btu/h	324,000		
		kW	95.0		
	Power input	kW	19.10		
	Current input	A	26.6		
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity		
	Model / Quantity		P06~P96 / 2~50		
Sound pressure level (measured in anechoic room)		dB <A>	54		
Refrigerant piping diameter	Liquid pipe	in.(mm)	3/4 (19.05) Brazed		
	Gas pipe	in.(mm)	1-3/8 (34.93) Brazed		
Module Set					
Module			PQHY-P96YHMU-A	PQHY-P96YHMU-A	PQHY-P96YHMU-A
External finish			Acrylic painted steel plate		
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	459 (208)	459 (208)	459 (208)
Heat exchanger	Type		Plate	Plate	Plate
	Water volume in plate	G	1.32	1.32	1.32
		l	5.0	5.0	5.0
	Water pressure Max.	psi	290	290	290
		MPa	2.0	2.0	2.0
Compressor	Type		Inverter scroll hermetic compressor		
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter	Inverter	Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32	MEL32
Circulating water	Water flow rate	G/h	1522 + 1522 + 1522		
		G/min(gpm)	25.4 + 25.4 + 25.4		
		m³ / h	5.76 + 5.76 + 5.76		
		cfm	3.4 + 3.4 + 3.4		
	Pressure drop	kPa	17	17	17
		psi	2.47	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 + 1,189 ~ 1,902 + 1,902 + 1,902		
		G/min(gpm)	19.8 + 19.8 + 19.8 ~ 31.7 + 31.7 + 31.7		
		m³ / h	4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit(comp)		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection		
Minimum Circuit Ampacity(MCA)		A	10	10	10
Maximum Overcurrent Protection(MOCP)		A	15	15	15
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit		
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T664		
	Wiring		KE79B309H01	KE79B309H01	KE79B309H01
Standard attachment	Document		Installation Manual		
	Accessory		Details refer to External Drw		
Optional parts			Heat Source Twinning kit : CMY-Y300CBK2		
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2		
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.		

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P312YSHMU-A		
Power source			3-phase 3-wire 460 ±10% 60Hz		
Cooling capacity (Nominal) *1 (208/230V)	Btu/h		312,200		
	kW		91.5		
	Power input	kW	19.27		
	Current input	A	26.9		
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Heating capacity (Nominal) *2 (208/230V)	Btu/h		351,000		
	kW		102.9		
	Power input	kW	20.58		
	Current input	A	28.7		
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity		
	Model / Quantity		P06~P96 / 2~50		
Sound pressure level (measured in anechoic room)		dB <A>	54.5		
Refrigerant piping diameter	Liquid pipe	in.(mm)	3/4 (19.05) Brazed		
	Gas pipe	in.(mm)	1-3/8 (34.93) Brazed		
Module Set					
Module		PQHY-P120YHMU-A		PQHY-P96YHMU-A	
External finish		Acrylic painted steel plate			
External dimension HxWxD	mm	1,100 x 880 x 550		1,100 x 880 x 550	
	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16	
Net weight		lbs(kg)	459 (208)		459 (208)
Heat exchanger	Type	Plate			
	Water volume in plate	G	1.32		1.32
		l	5.0		5.0
	Water pressure Max.	psi	290		290
MPa		2.0		2.0	
Compressor	Type	Inverter scroll hermetic compressor			
	Manufacturer	AC&R Works, MITSUBISHI ELECTRIC CORPORATION			
	Starting method	Inverter		Inverter	
	Case heater	kW	0.051 (230V)	0.051 (230V)	0.051 (230V)
	Lubricant	MEL32		MEL32	
Circulating water	Water flow rate	G/h	1,522 + 1,522 + 1,522		
		G/min(gpm)	25.4 + 25.4 + 25.4		
		m³ / h	5.76 + 5.76 + 5.76		
		L/min	96 + 96 + 96		
		cfm	3.4 + 3.4 + 3.4		
	Pressure drop	kPa	17	17	17
		psi	2.47	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 + 1,189 ~ 1,902 + 1,902 + 1,902		
		G/min(gpm)	19.8 + 19.8 + 19.8 ~ 31.7 + 31.7 + 31.7		
		m³ / h	4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2		
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure			
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit(comp)		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection		
Minimum Circuit Ampacity(MCA)		A	13	10	10
Maximum Overcurrent Protection(MOCP)		A	20	15	15
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit		
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T664		
	Wiring		KE79B309H01	KE79B309H01	KE79B309H01
Standard attachment	Document		Installation Manual		
	Accessory		Details refer to External Drw		
Optional parts			Heat Source Twinning kit : CMY-Y300CBK2		
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2		
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.			

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 68degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3.412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

Model			PQHY-P336YSHMU-A			
Power source			3-phase 3-wire 460 ±10% 60Hz			
Cooling capacity (Nominal) *1 (208/230V)		Btu/h	336,000			
		kW	98.5			
		Power input	kW	21.23		
		Current input	A	29.4		
Temp. range of cooling		Indoor	W.B.	59~75° F (15~24° C)		
		Circulating water		23~113° F (-5~45° C) *3		
Heating capacity (Nominal) *2 (208/230V)		Btu/h	378,000			
		kW	110.8			
		Power input	kW	22.07		
		Current input	A	30.7		
Temp. range of heating		Indoor	D.B.	59~81° F (15~27° C)		
		Circulating water		23~113° F (-5~45° C) *3		
Indoor unit connectable		Total capacity	50~130% of heat source unit capacity			
		Model / Quantity	P06~P96 / 2~50			
Sound pressure level (measured in anechoic room)		dB <A>	55			
Refrigerant piping diameter		Liquid pipe	in.(mm)	3/4 (19.05) Brazed		
		Gas pipe	in.(mm)	1-5/8 (41.28) Brazed		
Module Set						
Module			PQHY-P120YHMU-A	PQHY-P120YHMU-A	PQHY-P96YHMU-A	
External finish			Acrylic painted steel plate			
External dimension HxWxD		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	
Net weight		lbs(kg)	459 (208)	459 (208)	459 (208)	
Heat exchanger	Type		Plate	Plate	Plate	
	Water volume in plate	G	1.32	1.32	1.32	
		l	5.0	5.0	5.0	
	Water pressure Max.	psi	290	290	290	
MPa		2.0	2.0	2.0		
Compressor	Type		Inverter scroll hermetic compressor			
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION			
	Starting method		Inverter	Inverter	Inverter	
	Case heater	kW	0.051 (230V)	0.051 (230V)	0.051 (230V)	
	Lubricant		MEL32	MEL32	MEL32	
Circulating water	Water flow rate	G/h	1,522 + 1,522 + 1,522			
		G/min(gpm)	25.4 + 25.4 + 25.4			
		m³ / h	5.76 + 5.76 + 5.76			
		L/min	96 + 96 + 96			
		cfm	3.4 + 3.4 + 3.4			
	Pressure drop	kPa	17	17	17	
		psi	2.47	2.47	2.47	
	Operating volume range	G/h	1,189 + 1,189 + 1,189 ~ 1,902 + 1,902 + 1,902			
		G/min(gpm)	19.8 + 19.8 + 19.8 ~ 31.7 + 31.7 + 31.7			
		m³ / h	4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2			
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure			
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit(comp)		Over-heat protection, Over-current protection			
	Compressor		Over-heat protection			
Minimum Circuit Ampacity(MCA)		A	13	13	10	
Maximum Overcurrent Protection(MOCP)		A	20	20	15	
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	
	Control		LEV and HIC Circuit			
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	
Drawing	External		KB94T664			
	Wiring		KE79B309H01	KE79B309H01	KE79B309H01	
Standard attachment	Document		Installation Manual			
	Accessory		Details refer to External Drw			
Optional parts			Heat Source Twinning kit : CMY-Y300CBK2			
			Joint : CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2			
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.			

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3.412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

1. SPECIFICATIONS

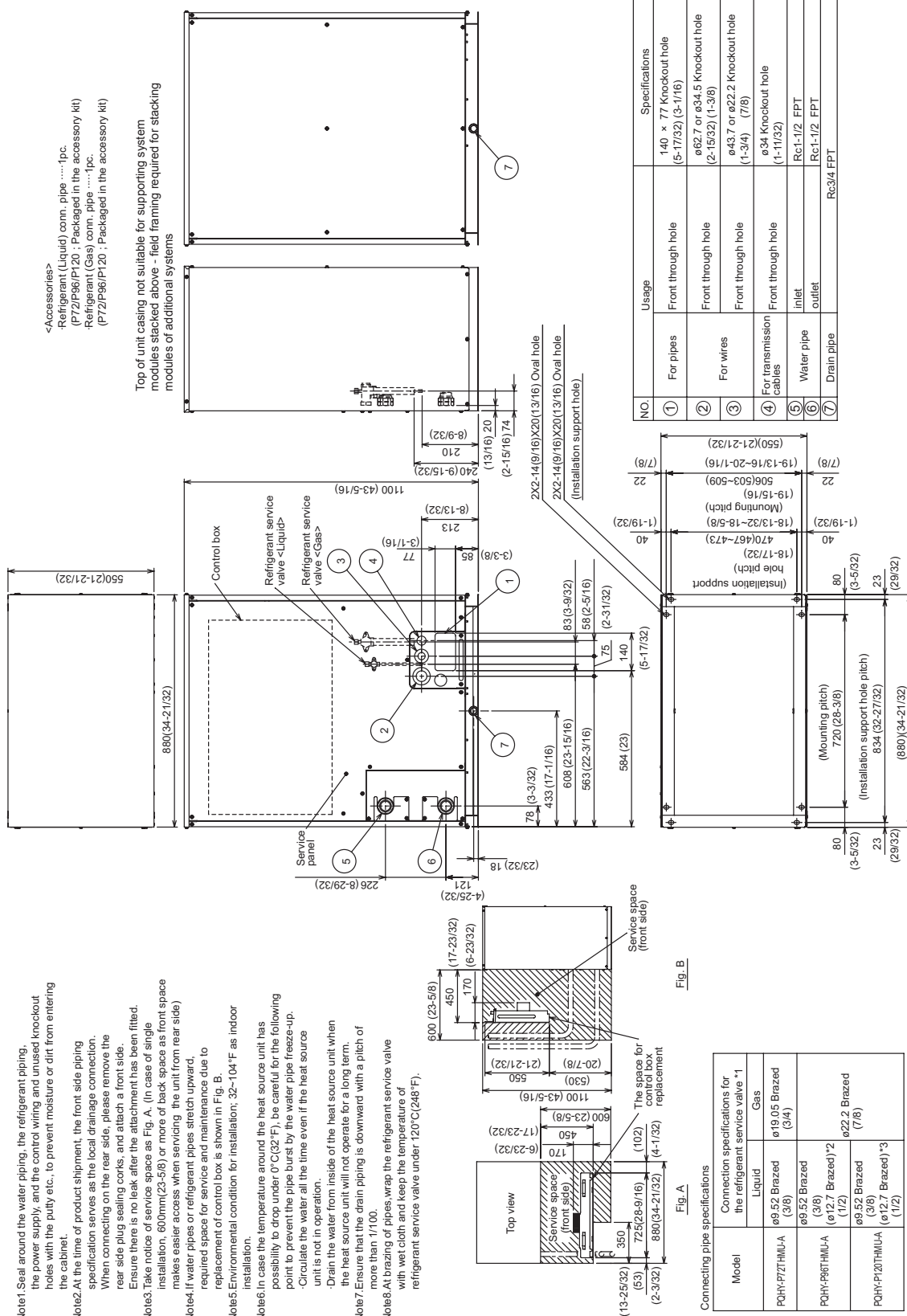
Model			PQHY-P360YSHMU-A		
Power source			3-phase 3-wire 460 ±10% 60Hz		
Cooling capacity (Nominal) *1 (208/230V)	Btu/h		360,000		
	kW		105.5		
	Power input		kW		
	Current input		A		
Temp. range of cooling	Indoor	W.B.	59~75° F (15~24° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Heating capacity (Nominal) *2 (208/230V)	Btu/h		405,000		
	kW		118.7		
	Power input		kW		
	Current input		A		
Temp. range of heating	Indoor	D.B.	59~81° F (15~27° C)		
	Circulating water		23~113° F (-5~45° C) *3		
Indoor unit connectable	Total capacity		50~130% of heat source unit capacity		
	Model / Quantity		P06~P96 / 2~50		
Sound pressure level (measured in anechoic room)		dB <A>	56		
Refrigerant piping diameter	Liquid pipe	in.(mm)	3/4 (19.05) Brazed		
	Gas pipe	in.(mm)	1-5/8 (41.28) Brazed		
Module Set					
Module			PQHY-P120YHMU-A	PQHY-P120YHMU-A	PQHY-P120YHMU-A
External finish			Acrylic painted steel plate		
External dimension HxWxD	mm		1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
	in.		43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Net weight		lbs(kg)	459 (208)	459 (208)	459 (208)
Heat exchanger	Type		Plate	Plate	Plate
	Water volume in plate	G	1.32	1.32	1.32
		l	5.0	5.0	5.0
	Water pressure Max.	psi	290	290	290
		MPa	2.0	2.0	2.0
Compressor	Type	Inverter scroll hermetic compressor			
	Manufacturer		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter	Inverter	Inverter
	Case heater	kW	0.051 (230V)	0.051 (230V)	0.051 (230V)
	Lubricant		MEL32	MEL32	MEL32
Circulating water	Water flow rate	G/h	1,522 + 1,522 + 1,522		
		G/min(gpm)	25.4 + 25.4 + 25.4		
		m³ / h	5.76 + 5.76 + 5.76		
		L/min	96 + 96 + 96		
		cfm	3.4 + 3.4 + 3.4		
	Pressure drop	kPa	17	17	17
		psi	2.47	2.47	2.47
	Operating volume range	G/h	1,189 + 1,189 + 1,189 ~ 1,902 + 1,902 + 1,902		
		G/min(gpm)	19.8 + 19.8 + 19.8 ~ 31.7 + 31.7 + 31.7		
		m³ / h	4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit(comp)		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection		
Minimum Circuit Ampacity(MCA)		A	13	13	13
Maximum Overcurrent Protection(MOCP)		A	20	20	20
Refrigerant	Type x original charge		R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)
	Control		LEV and HIC Circuit		
Pipe between unit and distributor	Liquid pipe	in.(mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in.(mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Drawing	External		KB94T664		
	Wiring		KE79B309H01		
Standard attachment	Document		Installation Manual		
	Accessory		Details refer to External Drw		
Optional parts			Heat Source Twinning kit : CMY-Y300CBK2		
			Joint :CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2		
			Header:CMY-Y104/108/1010C-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. The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40° C DB). The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. The Heat Source Unit should not be installed at outdoor. Mount a strainer (more than 50 mesh) at the water inlet piping of the unit. Provide interlocking for the unit operation and water circuit. Proof of flow device is factory field provided. *3 If using circulating water temperatures that are between 23 and 50° F, Dip switch 3-9 must be turned on and glycol must be used in the water loop to prevent freezing down to 5° F.		

Note:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor:	81degF D.B./ 66degF W.B. (27degC D.B./ 19degC W.B.)	68degF D.B. (20degC D.B.)	BTU/h =kW x 3,412
Water Temp.:	86degF (30degC)	68degF (20degC)	cfm =m³/min x 35.31
Pipe length:	24-9/16ft.(7.5m)	25ft.(7.6m)	lb =kg / 0.4536
Level difference:	0ft.(0m)	0ft.(0m)	* Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.			

2. EXTERNAL DIMENSIONS

PQHY-P72,96,120THMU-A

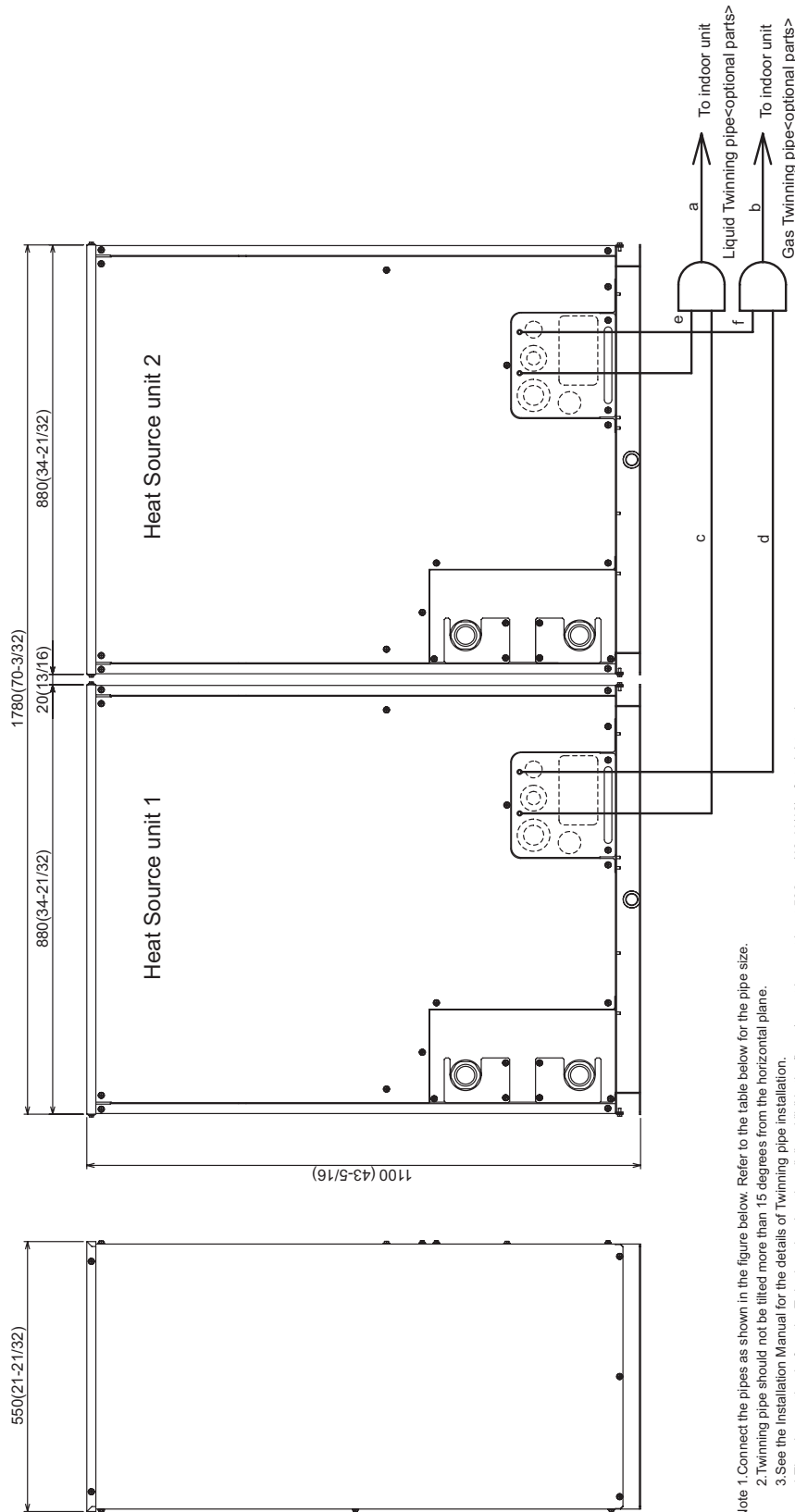
Unit : mm(in)



2. EXTERNAL DIMENSIONS

PQHY-P144,168,192,216,240TSHMU-A

Unit : mm(in)



Note 1. Connect the pipes as shown in the figure below. Refer to the table below for the pipe size.

2. Twinning pipe should not be tilted more than 15 degrees from the horizontal plane.

3. See the Installation Manual for the details of Twinning pipe installation.

4. The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm(19-11/16) of straight section

(*Including the straight pipe that is supplied with the Twinning pipe)

5. Only use the Twinning pipe by Mitsubishi (optional parts).

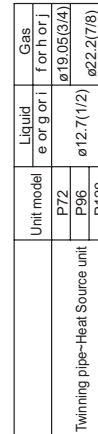
Twining pipe connection size

Package unit name	PQHY-P144TSHMU-A	PQHY-P168TSHMU-A	PQHY-P192TSHMU-A	PQHY-P216TSHMU-A	PQHY-P240TSHMU-A
Heat Source unit 1	PQHY-P77THMU-A	PQHY-P86THMU-A	PQHY-P86THMU-A	PQHY-P120THMU-A	PQHY-P120THMU-A
Heat Source unit 2	PQHY-P77THMU-A	PQHY-P77THMU-A	PQHY-P86THMU-A	PQHY-P86THMU-A	PQHY-P120THMU-A
Twining pipe kit(optional parts)					
Indoor unit-Twinning pipe					
Liquid	a	ø12.7(1/2)			
Gas	b				
Twining pipe-Heat Source unit 1					
Liquid	c	ø9.52(3/8)			
Gas	d	ø19.05(3/4)			
Twining pipe-Heat Source unit 2					
Liquid	e	ø9.52(3/8)			
Gas	f	ø19.05(3/4)			

WY-28

PQHY-P-T(S)HMU, -Y(S)HMU (April 2014)

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- Note 1. Connect the pipes as shown in the figure above. Refer to the table below for the pipe size.
2. Twinning pipe should not be tilted more than 15 degrees from the horizontal plane.
3. See the Installation Manual for the details of "Twining pipe installation."
4. The pipe section before the Twining pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section ("including the straight pipe that is supplied with the Twining pipe).
5. Only use the Twining pipe by Mitsubishi (optional parts).

Note 1. Connect the pipes as shown in the figure above. Refer to the table below for the pipe size.

2. Twinning pipe should not be tilted more than 15 degrees from the horizontal plane.

3. See the Installation Manual for the details of Twinning pipe installation.

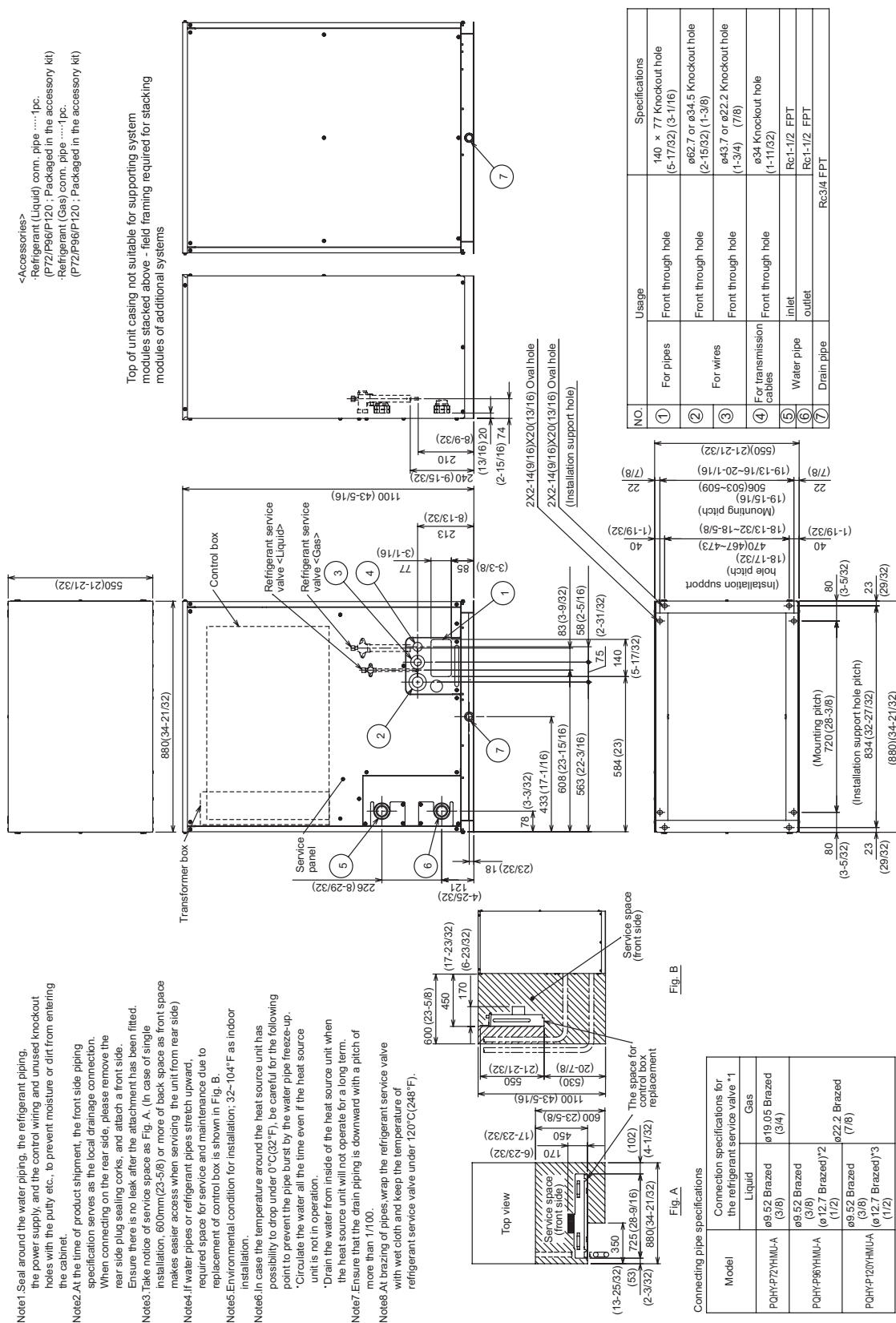
4. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section ("including the straight pipe that is supplied with the Twinning pipe).

5. Only use the Twinning pipe by Mitsubishi (optional parts).

2. EXTERNAL DIMENSIONS

PQHY-P72,96,120YHMu-A

Unit : mm(in)



Note1 Seal around the water piping, the refrigerant piping, the power supply, and the control wiring and unused knockout holes with the putty etc., to prevent moisture or dirt from entering the cabinet.

Note2 At the time of product shipment, the front side piping specification serves as the local drainage connection. When connecting on the rear side, please remove the rear side plug sealing corks, and attach a front side.

Note3 Take notice of service space as Fig. A. (In case of single installation, 600mm(23-5/8) or more of back space as front side) makes easier access when servicing the unit from rear side)

Note4 If water pipes or refrigerant pipes stretch upward, required space for service and maintenance due to replacement of control box is shown in Fig. B.

Note5 Environmental condition for installation; 32~104°F as indoor installation.

Note6 In case the temperature around the heat source unit has possibility to drop under 0°C(32°F), be careful for the following point to prevent the pipe burst by the water pipe freeze-up.
 *Circulate the water all the time even if the heat source unit is not in operation.

*Drain the water from inside of the heat source unit when the heat source unit will not operate for a long term.

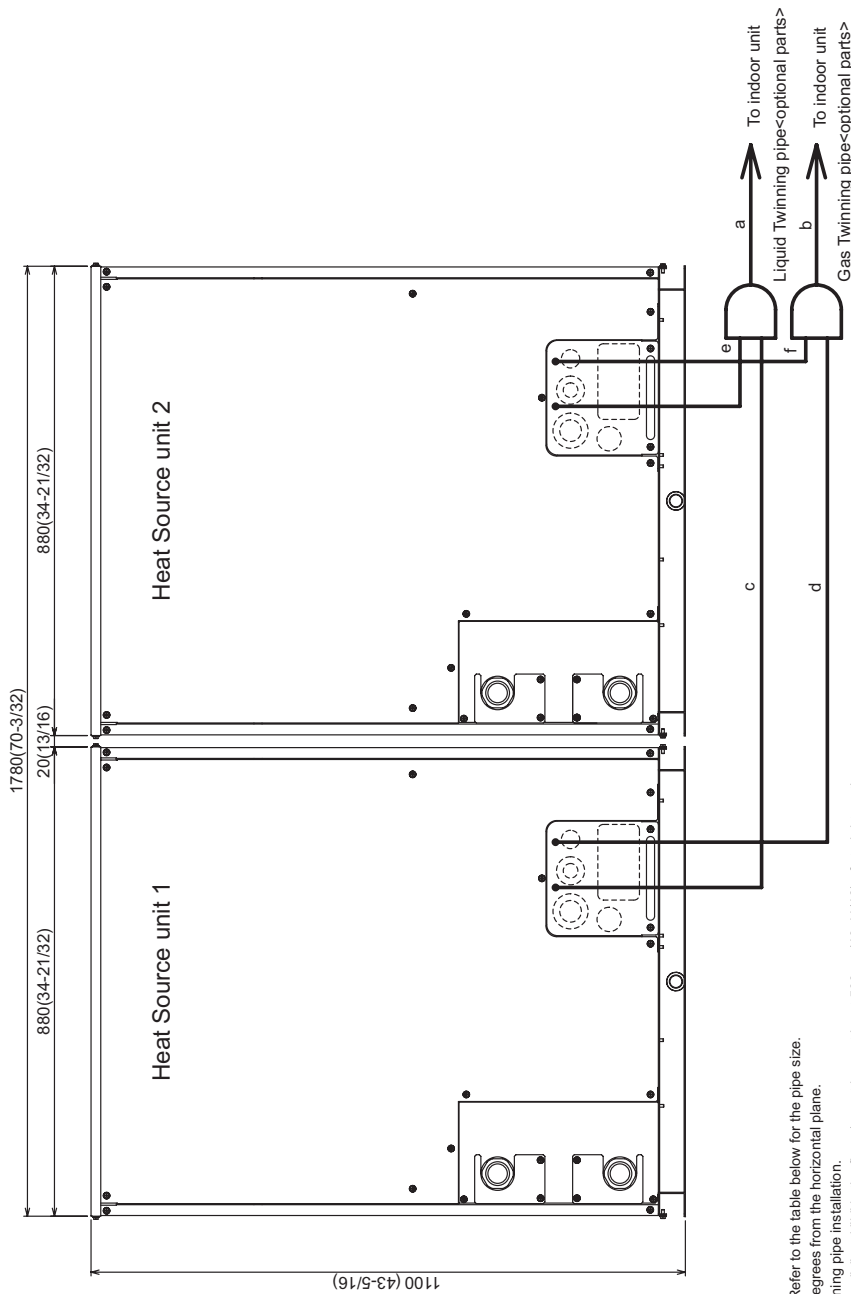
Note7 Ensure that the drain piping is downward with a pitch of more than 1/100.

Note8 At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

2. EXTERNAL DIMENSIONS

PQHY-P144,168,192,216,240YSHMU-A

Unit : mm(in)



Note 1 Connect the pipes as shown in the figure below. Refer to the table below for the pipe size.

2. Twinning pipe should not be tilted more than 15 degrees from the horizontal plane.

3. See the Installation Manual for the details of Twinning pipe installation.

4. The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).

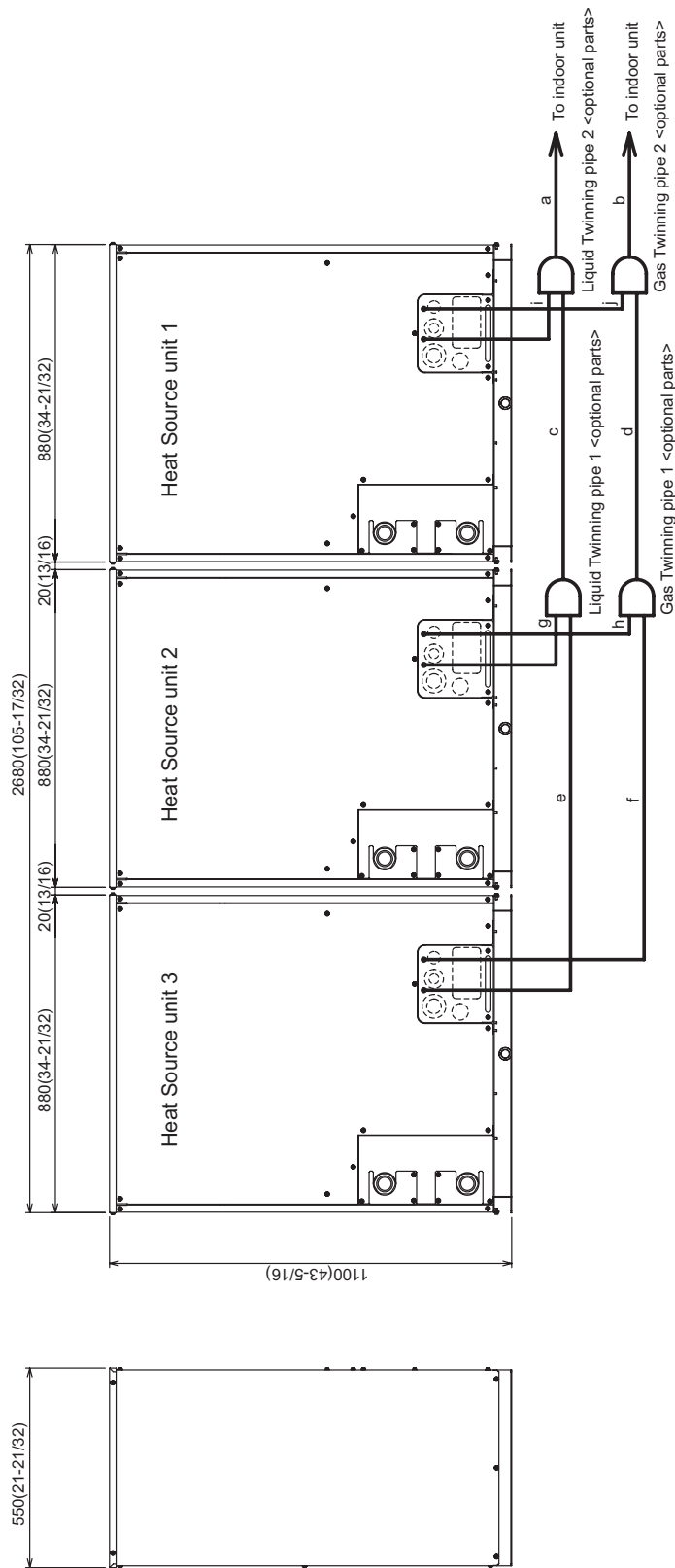
5. Only use the Twinning pipe by Mitsubishi (optional parts).

Twinning pipe connection size		Package unit name							
Component unit name		Heat Source unit 1		Heat Source unit 2		Indoor unit-Twinning pipe		Twinning pipe-Heat Source unit 1	
Twinning pipe Kit(optional parts)		PQHY-P144YSHMU-A		PQHY-P168YSHMU-A		PQHY-P192YSHMU-A		PQHY-P216YSHMU-A	
Indoor unit-Twinning pipe		PQHY-P72YHMLA		PQHY-P86YHMLA		PQHY-P98YHMLA		PQHY-P120YHMLA	
Liquid		PQHY-P72YHMLA		PQHY-P86YHMLA		PQHY-P98YHMLA		PQHY-P120YHMLA	
Gas		PQHY-P72YHMLA		PQHY-P86YHMLA		PQHY-P98YHMLA		PQHY-P120YHMLA	
Twinning pipe-Heat Source unit 1		PQHY-P72YHMLA		PQHY-P86YHMLA		PQHY-P98YHMLA		PQHY-P120YHMLA	
Liquid		PQHY-P72YHMLA		PQHY-P86YHMLA		PQHY-P98YHMLA		PQHY-P120YHMLA	
Gas		PQHY-P72YHMLA		PQHY-P86YHMLA		PQHY-P98YHMLA		PQHY-P120YHMLA	
Twinning pipe-Heat Source unit 2		PQHY-P72YHMLA		PQHY-P86YHMLA		PQHY-P98YHMLA		PQHY-P120YHMLA	
Liquid		PQHY-P72YHMLA		PQHY-P86YHMLA		PQHY-P98YHMLA		PQHY-P120YHMLA	
Gas		PQHY-P72YHMLA		PQHY-P86YHMLA		PQHY-P98YHMLA		PQHY-P120YHMLA	

2. EXTERNAL DIMENSIONS

PQHY-P264,288,312,336,360YSHMU-A

Unit : mm(in)



Twinning pipe connection size

Package unit name		PQHY-P264YSHMU-A	PQHY-P288YSHMU-A	PQHY-P312YSHMU-A	PQHY-P336YSHMU-A	PQHY-P360YSHMU-A
Component unit name	Heat Source unit 1	PQHY-P96YHMLA	PQHY-P96YHMLA	PQHY-P120YHMLA	PQHY-P120YHMLA	PQHY-P120YHMLA
	Heat Source unit 2	PQHY-P96YHMLA	PQHY-P96YHMLA	PQHY-P120YHMLA	PQHY-P120YHMLA	PQHY-P120YHMLA
	Heat Source unit 3	PQHY-P96YHMLA	PQHY-P96YHMLA	PQHY-P120YHMLA	PQHY-P120YHMLA	PQHY-P120YHMLA
Twinning pipe Kit(optional parts)		CMY-Y300VBK2				
Indoor unit~Twinning pipe 2	Liquid	a	ø19.05(3/4)	ø19.05(3/4)	ø19.05(3/4)	ø19.05(3/4)
	Gas	b	ø34.93(1-3/8)	ø34.93(1-3/8)	ø41.28(1-5/8)	ø41.28(1-5/8)
	Liquid	c	ø19.05(3/4)	ø19.05(3/4)	ø19.05(3/4)	ø19.05(3/4)
Twinning pipe 1~Twinning pipe 2		d	ø34.93(1-3/8)	ø34.93(1-3/8)	ø41.28(1-5/8)	ø41.28(1-5/8)

Unit model	Liquid		Gas	
	e or g or i	f or h or j	ø19.05(3/4)	ø22.2(7/8)
Twinning pipe-Heat Source unit		P72	ø12.7(1/2)	ø22.2(7/8)
		P96		
		P120		

Note 1. Connect the pipes as shown in the figure above. Refer to the table below for the pipe size.

2. Twinning pipe should not be tilted more than 15 degrees from the horizontal plane.

3. See the Installation Manual for the details of Twinning pipe installation.

4. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section

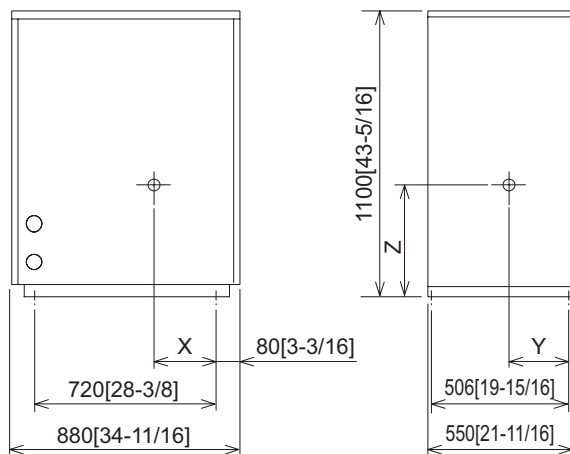
(*Including the straight pipe that is supplied with the Twinning pipe).

5. Only use the Twinning pipe by Mitsubishi (optional parts).

3. CENTER OF GRAVITY

PQHY-P72, 96, 120THMU-A

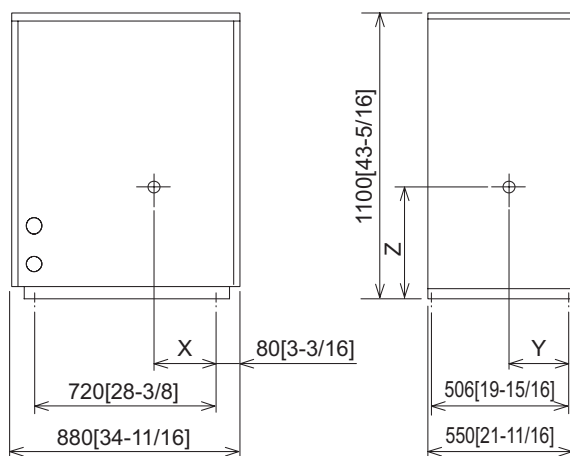
Unit : mm[in.]



Model	X	Y	Z
PQHY-P72THMU-A	418[16-1/2]	250[9-7/8]	475[18-3/4]
PQHY-P96THMU-A	418[16-1/2]	250[9-7/8]	475[18-3/4]
PQHY-P120THMU-A	418[16-1/2]	250[9-7/8]	475[18-3/4]

PQHY-P72, 96, 120YHMu-A

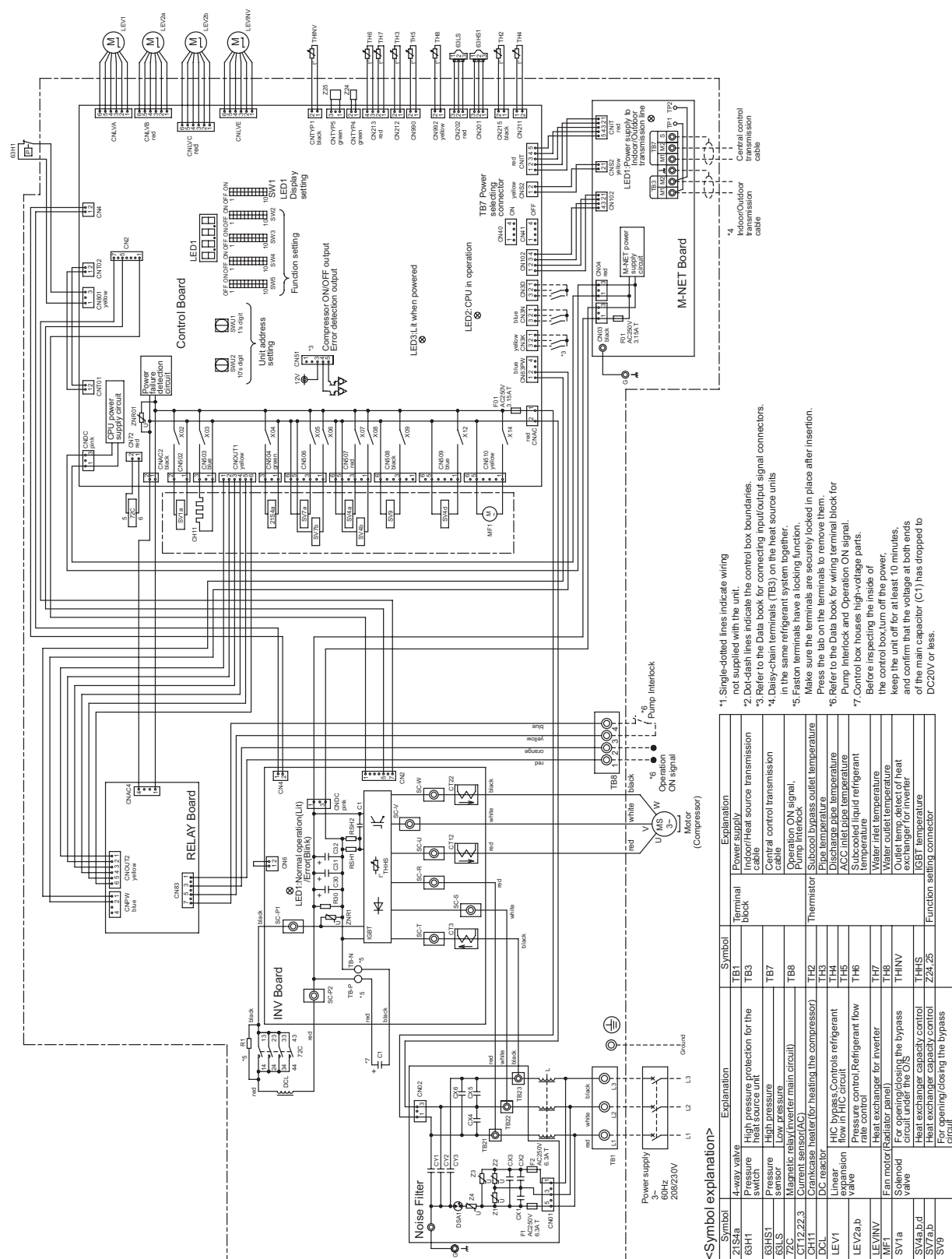
Unit : mm[in.]



Model	X	Y	Z
PQHY-P72YHMu-A	435[17-3/16]	254[10]	497[19-5/8]
PQHY-P96YHMu-A	435[17-3/16]	254[10]	497[19-5/8]
PQHY-P120YHMu-A	435[17-3/16]	254[10]	497[19-5/8]

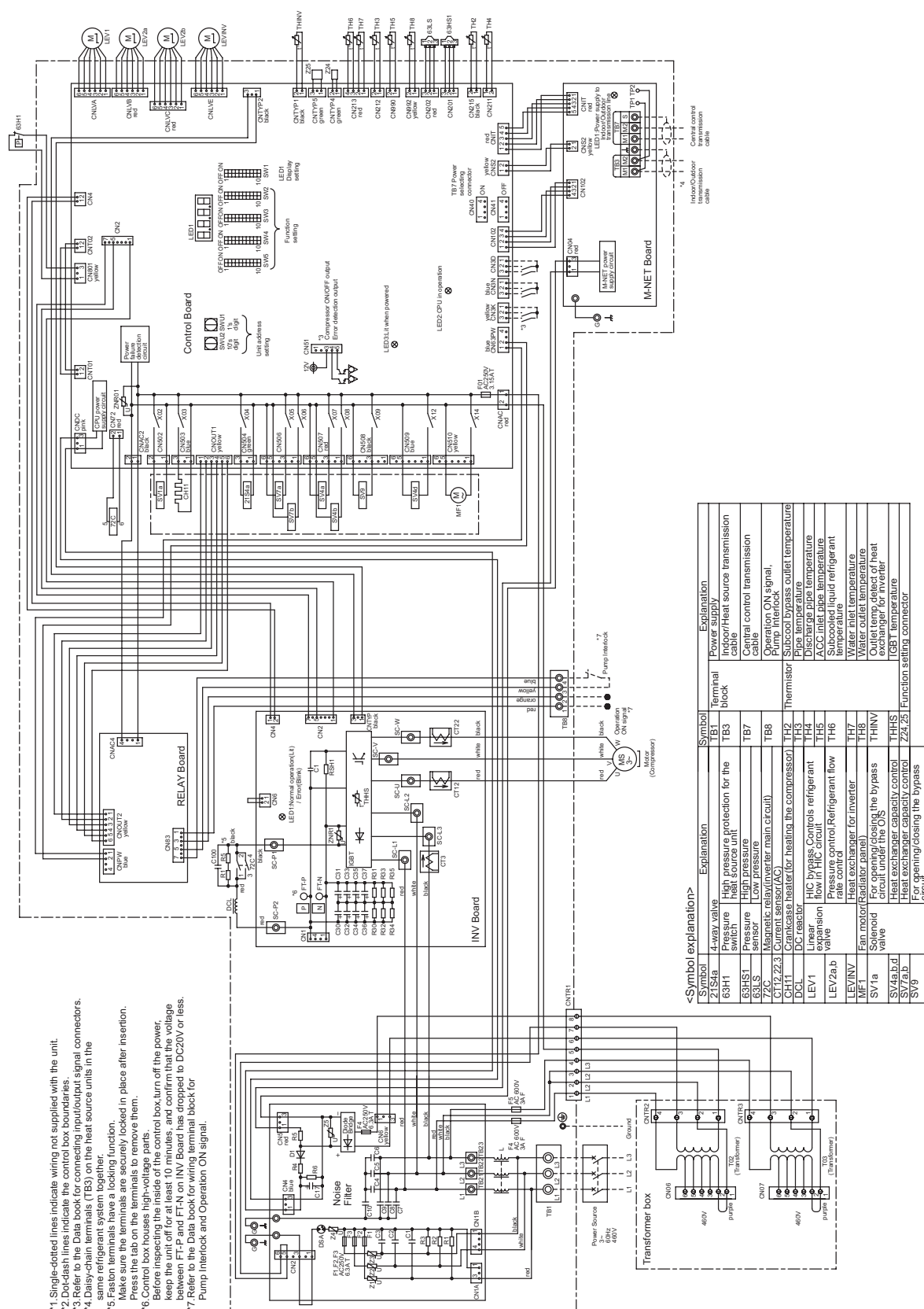
4. ELECTRICAL WIRING DIAGRAMS

PQHY-P72,96,120THMU-A



- Single-dotted lines indicate wiring not supplied with the unit.
- Dot-dash lines indicate the control box boundaries.
- Refer to the Data book for connecting input/output signal connectors.
- Daisy-chain terminals (TB3) on the heat source units.
- Make sure the terminals are securely locked in place after insertion.
- Press the tab on the terminals to remove them.
- Refer to the Data book for wiring terminal block for Pump interlock and Operation ON signal.
- 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 at both ends of the main capacitor (C1) has dropped to DC20V or less.

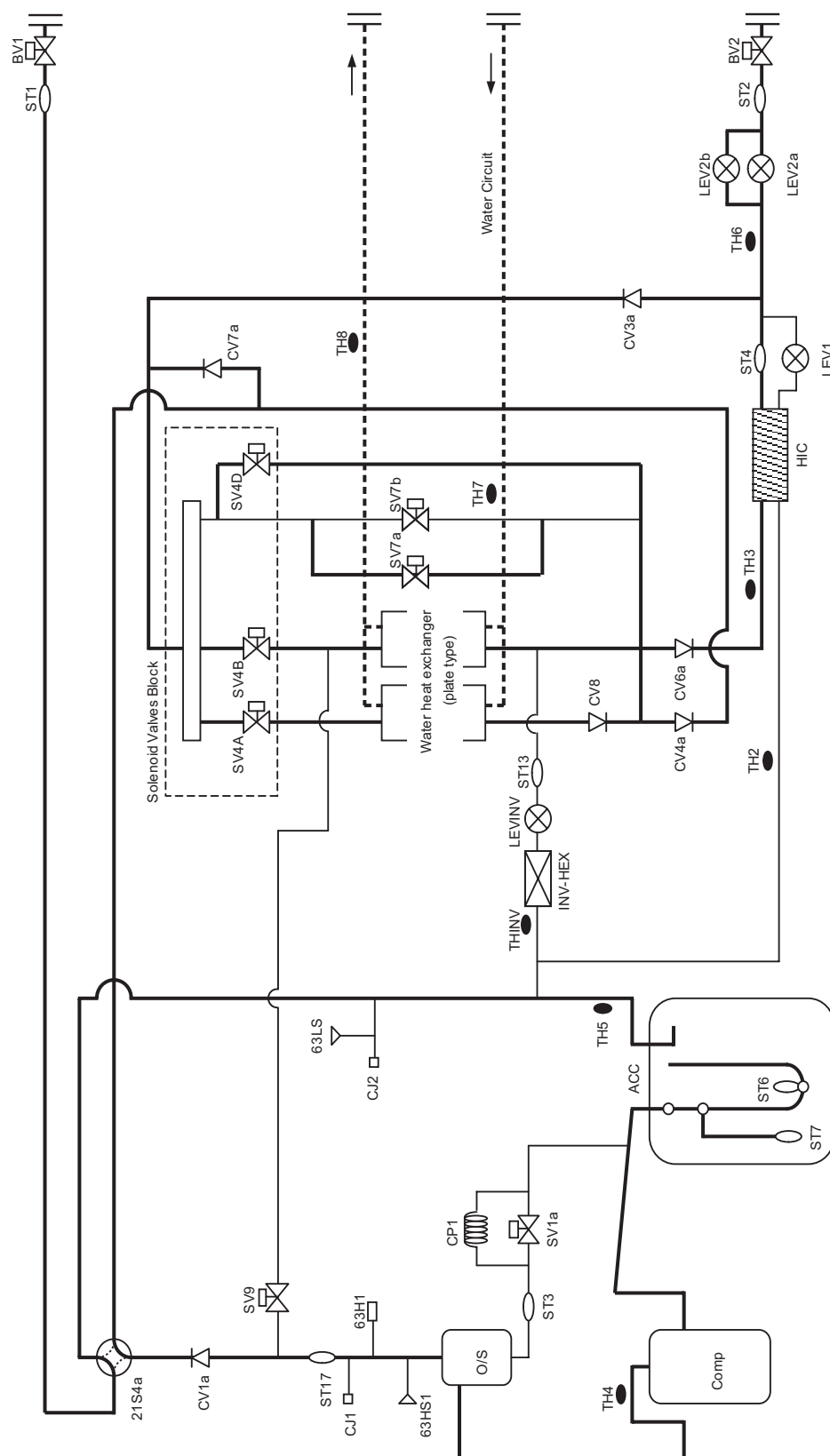
PQHY-P72,96,120YHMU-A



<Symbol explanation>	Explanation	Symbol	Terminal block	Explanation
4-way valve	4-way valve	TB1	Power supply	
Pressure switch	High pressure protection for the heat source unit	TB3	Water/Heat source transmission cable	
63HS1	High pressure sensor	TB7	Control transmission cable	
63LS	Low pressure sensor			
72C	Magnetic relay(inverter main or call)	TB8	Operation ON signal, pump interlock	
CT12.22.3	Current sensor(AC)			
COH1	Combi-cast heater(for heating the compressor)	TH2	Thermistor	Water bypass outlet temperature
COH2	Combi-cast heater	TH3		Pressure pipe temperature
Unasap	H/C bypass. Controls refrigerant flow in H/C circuit	TH4		Discharge pipe temperature
LEV1	Linear expansion valve	TH5	ACC inlet pipe temperature	
LEV2a,b	Pressure control/Refrigerant flow rate control	TH6	Subcooled liquid refrigerant temperature	
	Heat exchanger for inverter	TH7	Water inlet temperature	
LEVINV	Radiator panel	TH8	Water outlet temperature	
LEVINV1	Evaporator panel			
SV1a	Service valve bypassing the bypass circuit under the O/S	THINV	Heat exchanger for inverter	
SV1b	Heat exchanger capacity control	THHS	DBT temperature	
SV4a,b,d	Heat exchanger capacity control			
SV7a,b	Heat exchanger capacity control	Z24, Z5	Function setting connector	
SV9	For opening/closing the bypass			

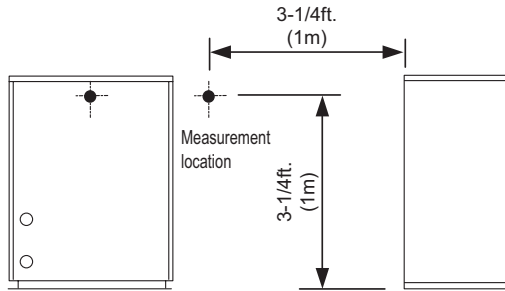
5. REFRIGERANT CIRCUIT DIAGRAMS

PQHY-P72,96,120THMU-A/Y(S)HMU-A

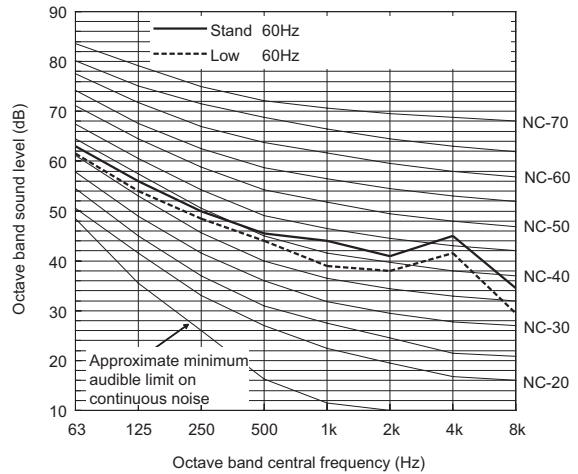


6. SOUND PRESSURE LEVELS

Measurement condition PQHY-P72,96,120THMU-A/YHMu-A



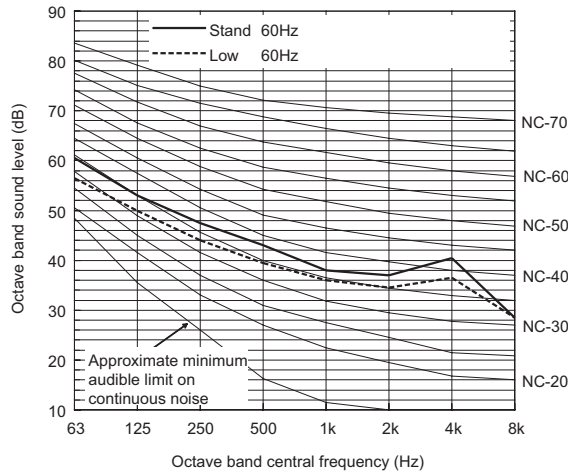
Sound level of PQHY-P120THMU-A/YHMu-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	63.0	56.0	50.0	45.5	44.0	41.0	45.0	34.5	51.0
Low noise mode	60Hz	61.5	54.0	48.5	44.0	39.0	38.0	41.5	29.5	48.0

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.

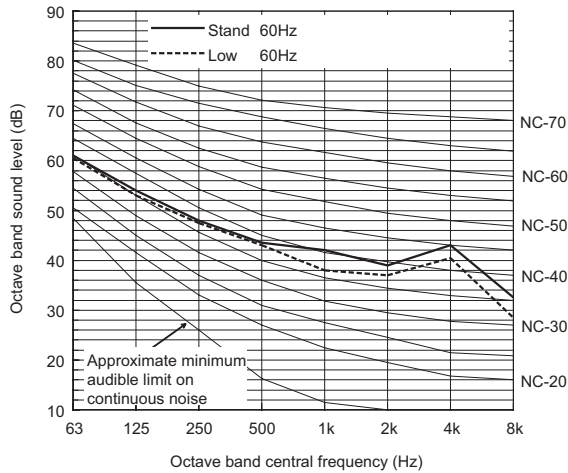
Sound level of PQHY-P72THMu-A/YHMu-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	60.5	53.0	47.5	43.0	38.0	37.0	40.5	28.5	47.0
Low noise mode	60Hz	56.5	50.0	44.0	39.5	36.0	34.5	36.5	28.5	44.0

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 PQHY-P96THMu-A/YHMu-A



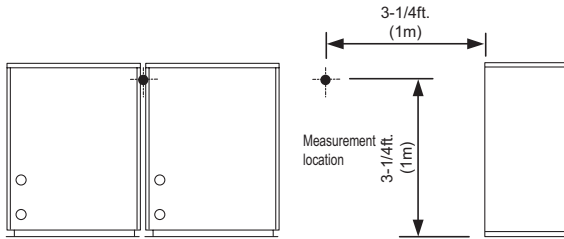
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	61.0	54.0	48.0	43.5	42.0	39.0	43.0	32.5	49.0
Low noise mode	60Hz	60.5	53.0	47.5	43.0	38.0	37.0	40.5	28.5	47.0

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.

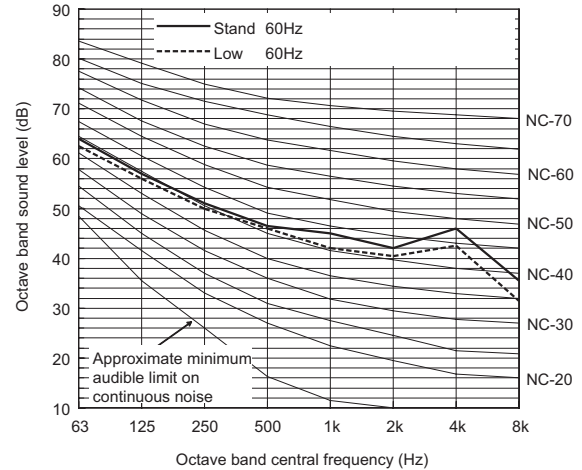
6. SOUND PRESSURE LEVELS

Measurement condition

PQHY-P144,168,192,216,240TSHMU-A/YSHMU-A



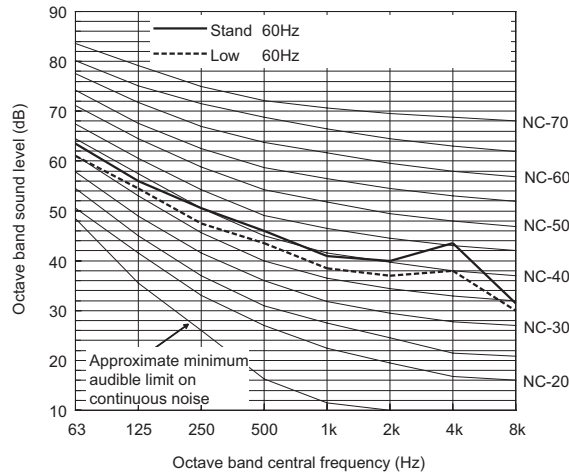
Sound level of PQHY-P192TSHMU-A/YSHMU-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	64.0	57.0	51.0	46.5	45.0	42.0	46.0	35.5	52.0
Low noise mode	60Hz	62.5	56.0	50.0	46.0	42.0	40.5	42.5	31.5	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.

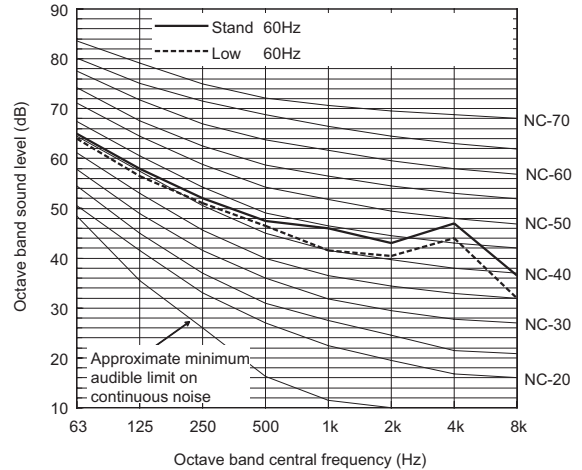
Sound level of PQHY-P144TSHMU-A/YSHMU-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	63.5	56.0	50.5	46.0	41.0	40.0	43.5	31.5	50.0
Low noise mode	60Hz	61.0	54.5	47.5	43.5	38.5	37.0	38.0	30.0	47.0

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.

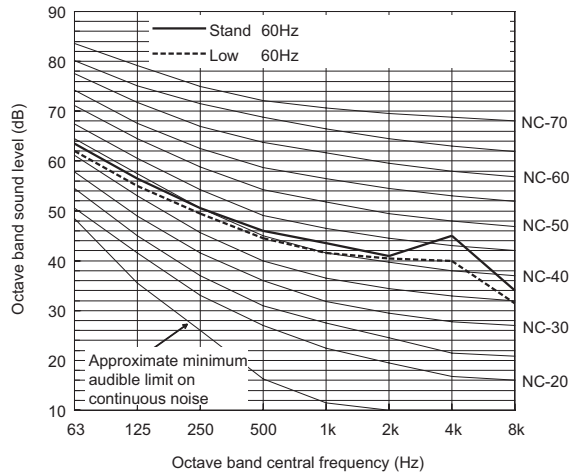
Sound level of PQHY-P216TSHMU-A/YSHMU-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	65.0	58.0	52.0	47.5	46.0	43.0	47.0	36.5	53.0
Low noise mode	60Hz	64.0	56.5	51.0	46.5	41.5	40.5	44.0	32.0	50.5

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.

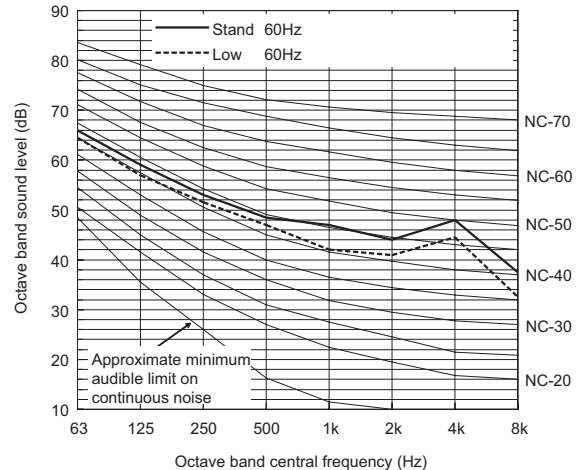
Sound level of PQHY-P168TSHMU-A/YSHMU-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	63.5	56.5	50.5	46.0	43.5	41.0	45.0	34.0	51.0
Low noise mode	60Hz	62.0	55.0	49.5	44.5	41.5	40.5	40.0	31.5	49.0

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 PQHY-P240TSHMU-A/YSHMU-A



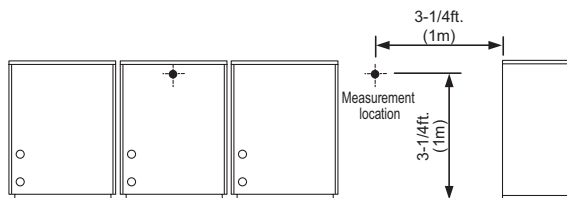
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	66.0	59.0	53.0	48.5	47.0	44.0	48.0	37.5	54.0
Low noise mode	60Hz	64.5	57.0	51.5	47.0	42.0	41.0	44.5	32.5	51.0

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.

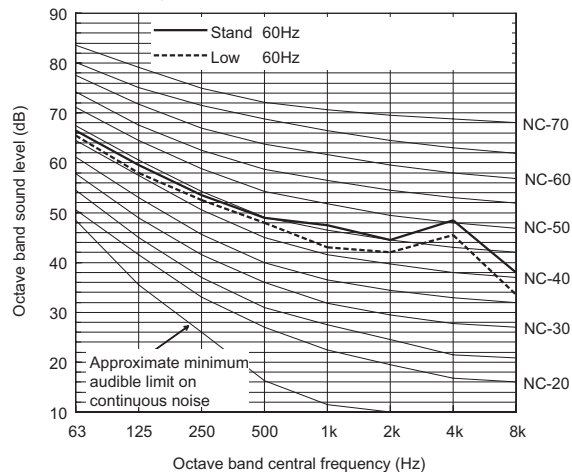
6. SOUND PRESSURE LEVELS

Measurement condition

PQHY-P264,288,312,336,360TSHMU-A/YSHMU-A



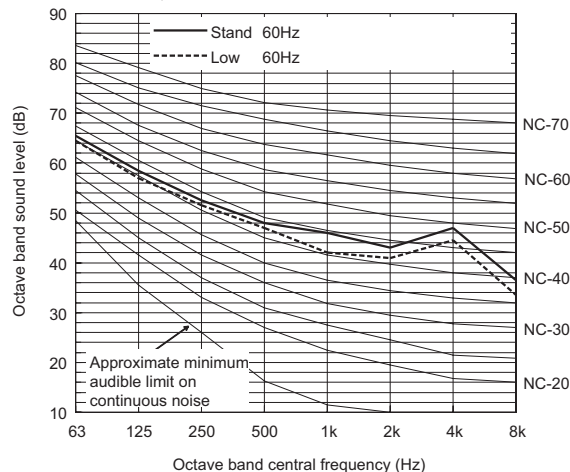
Sound level of PQHY-P312TSHMU-A/YSHMU-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	66.5	59.5	53.5	49.0	47.5	44.5	48.5	38.0	54.5
Low noise mode	60Hz	65.5	58.0	52.5	48.0	43.0	42.0	45.5	33.5	52.0

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.

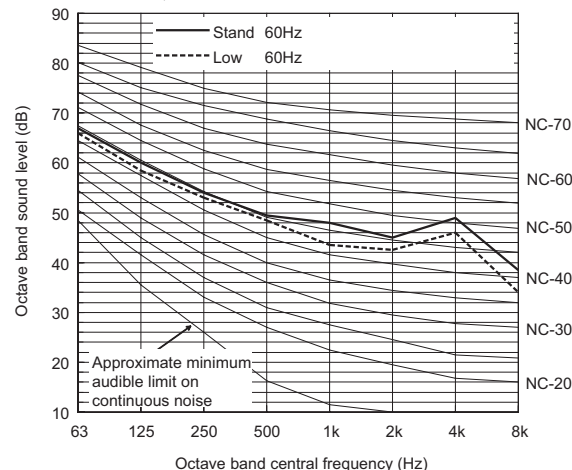
Sound level of PQHY-P264TSHMU-A/YSHMU-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	65.5	58.5	52.5	48.0	46.0	43.0	47.0	36.5	53.5
Low noise mode	60Hz	64.5	57.0	51.5	47.0	42.0	41.0	44.5	33.5	51.0

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.

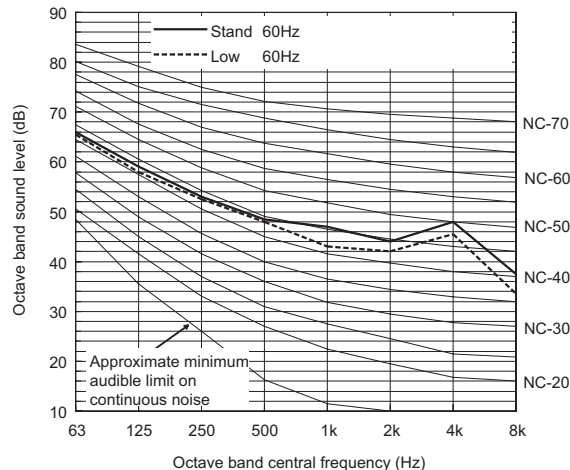
Sound level of PQHY-P336TSHMU-A/YSHMU-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	67.0	60.0	54.0	49.5	48.0	45.0	49.0	38.5	55.0
Low noise mode	60Hz	66.0	58.5	53.0	48.5	43.5	42.5	46.0	34.0	52.5

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.

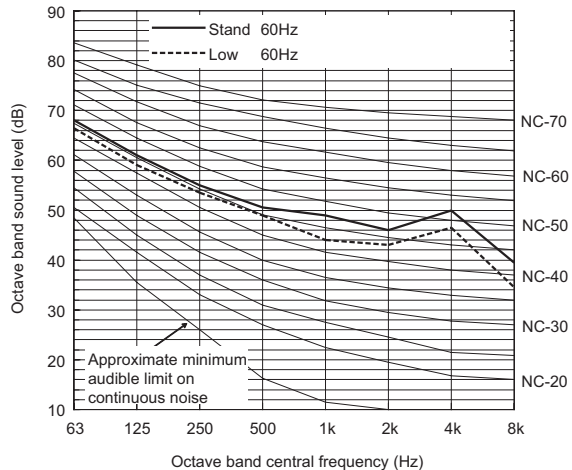
Sound level of PQHY-P288TSHMU-A/YSHMU-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	66.0	59.0	53.0	48.5	47.0	44.0	48.0	37.5	54.0
Low noise mode	60Hz	65.5	58.0	52.5	48.0	43.0	42.0	45.5	33.5	52.0

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 PQHY-P360TSHMU-A/YSHMU-A



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	68.0	61.0	55.0	50.5	49.0	46.0	50.0	39.5	56.0
Low noise mode	60Hz	66.5	59.0	53.5	49.0	44.0	43.0	46.5	34.5	53.0

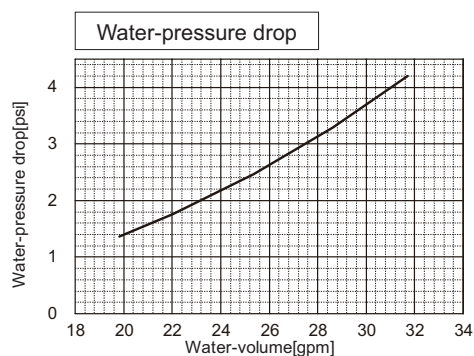
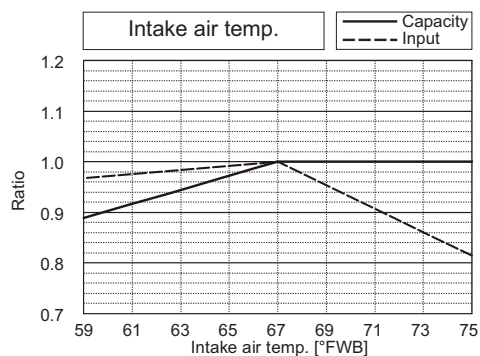
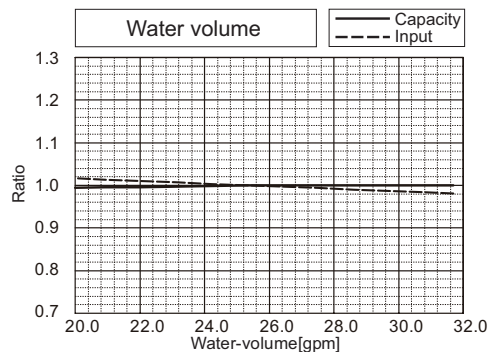
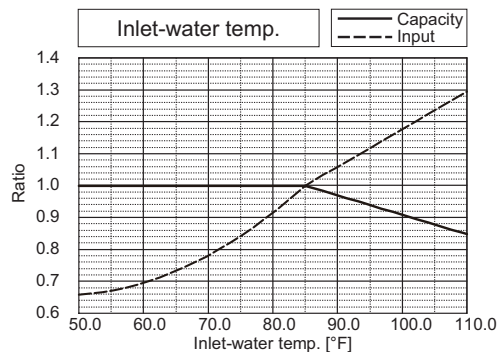
When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

7. CAPACITY TABLES

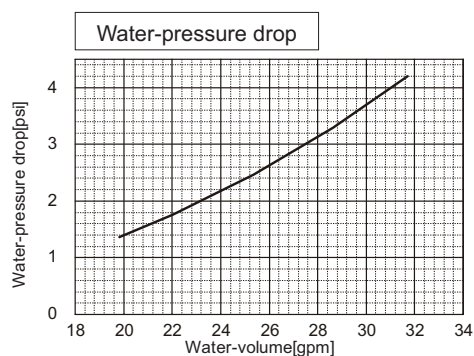
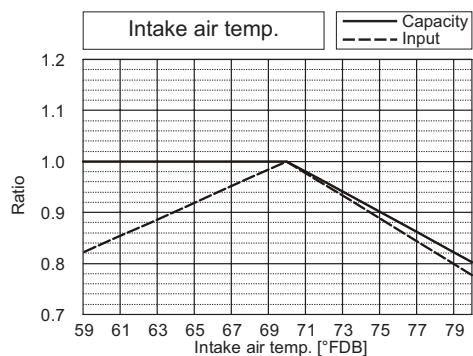
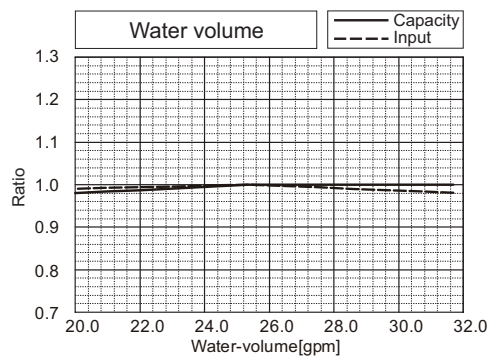
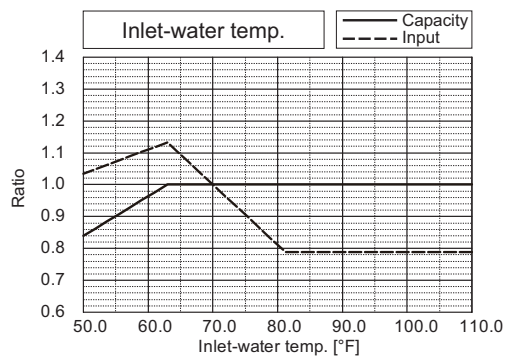
7-1. Correction by Temperature

CITY MULTI could have varied capacity at different design temperatures. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperatures.

	PQHY-	P72THMU	P72YHMU
Nominal Cooling Capacity	kW	21.3	21.3
	BTU/h	72,700	72,700
Input	kW	3.85	3.85

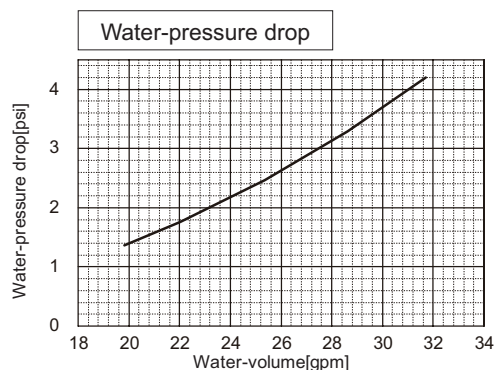
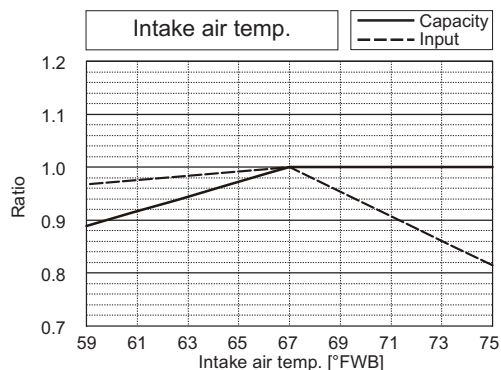
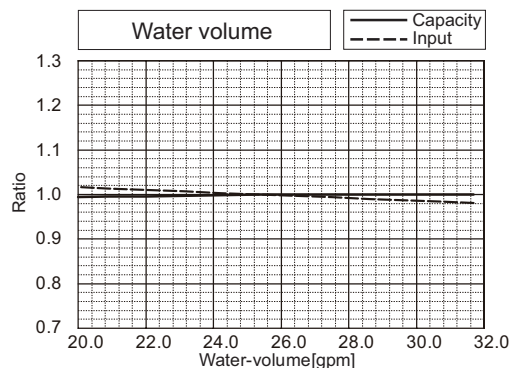
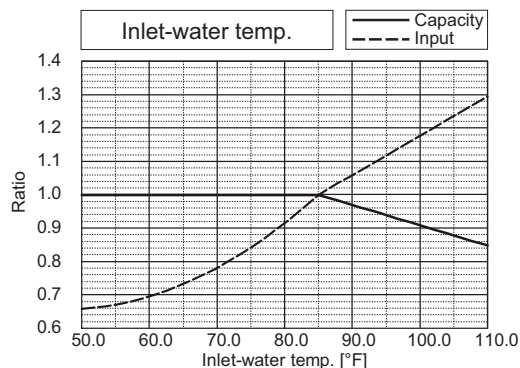


	PQHY-	P72THMU	P72YHMU
Nominal Heating Capacity	kW	23.4	23.4
	BTU/h	80,000	80,000
Input	kW	3.83	3.83

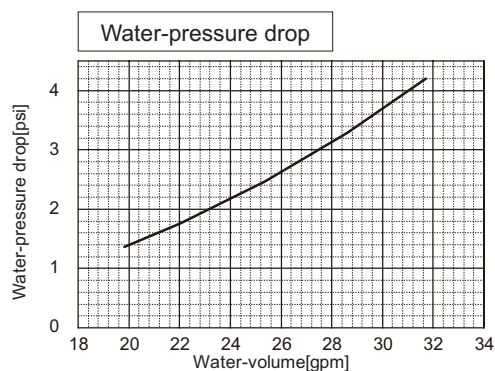
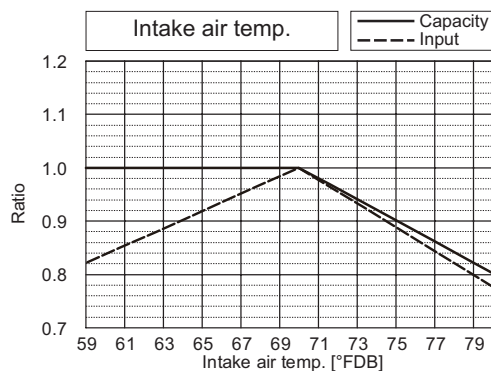
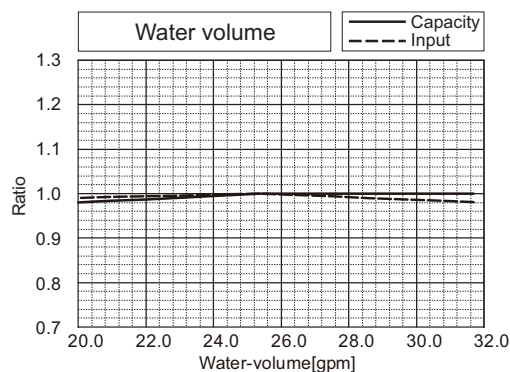
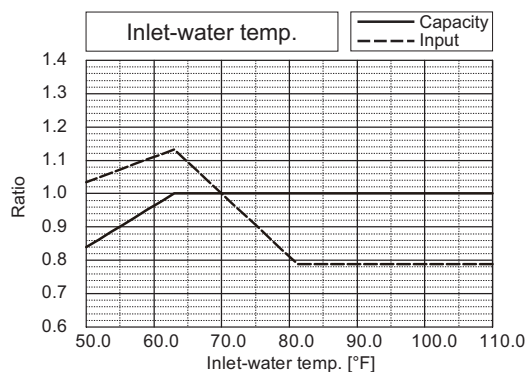


7. CAPACITY TABLES

PQHY-		P96THMU	P96YHMU
Nominal Cooling Capacity	kW	28.2	28.2
	BTU/h	96,300	96,300
Input	kW	5.61	5.61

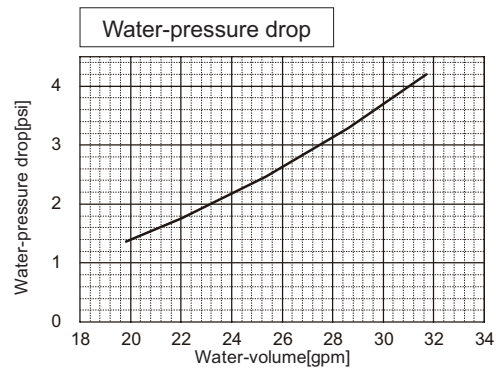
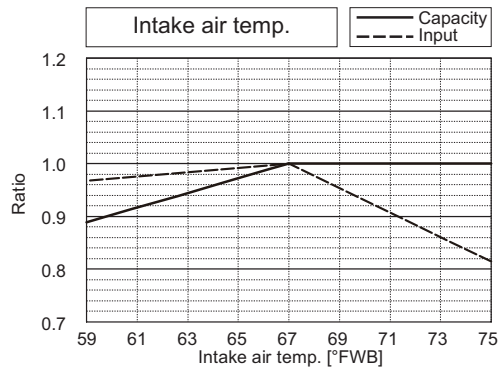
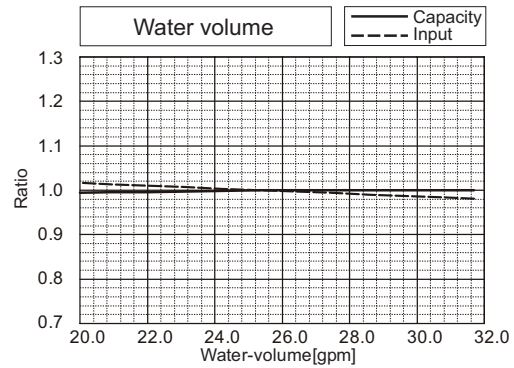
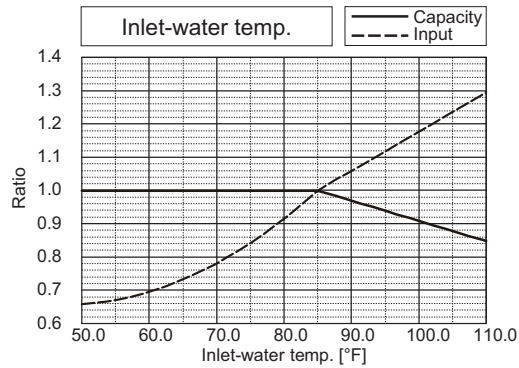


PQHY-		P96THMU	P96YHMU
Nominal Heating Capacity	kW	31.7	31.7
	BTU/h	108,000	108,000
Input	kW	6.18	6.18

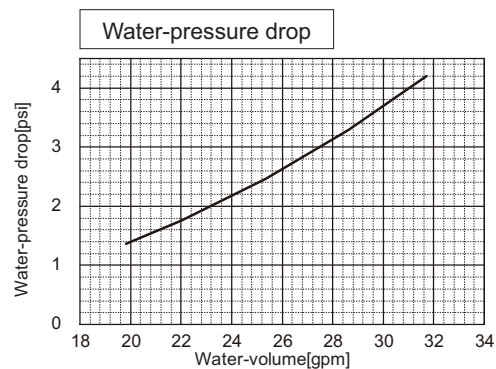
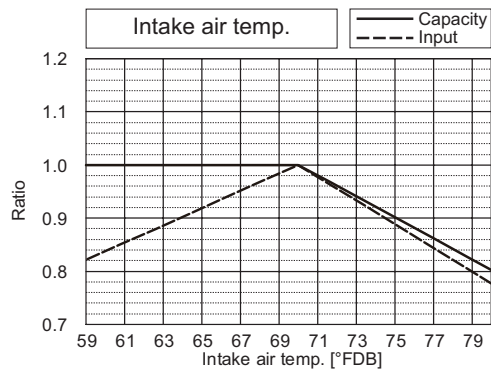
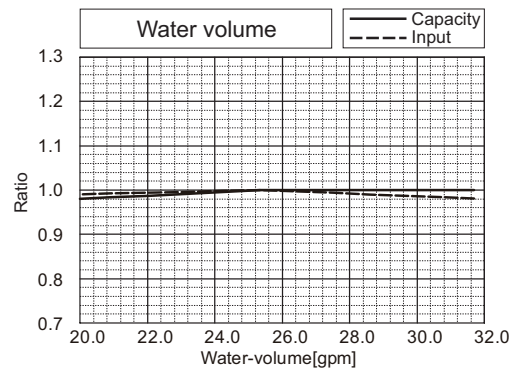
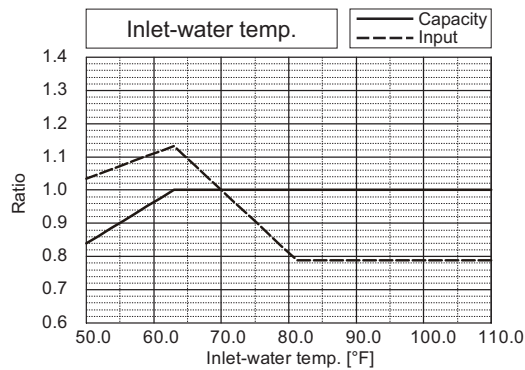


7. CAPACITY TABLES

PQHY-		P120THMU	P120YHMu
Nominal Cooling Capacity	kW	35.2	35.2
	BTU/h	120,000	120,000
Input	kW	7.51	7.51

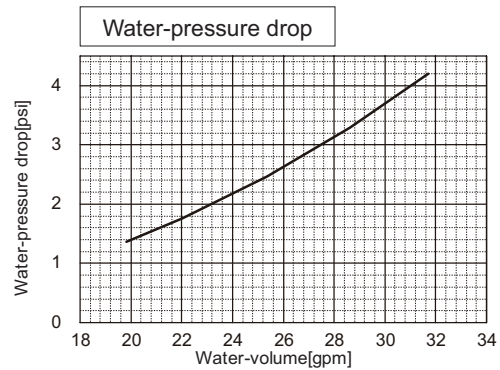
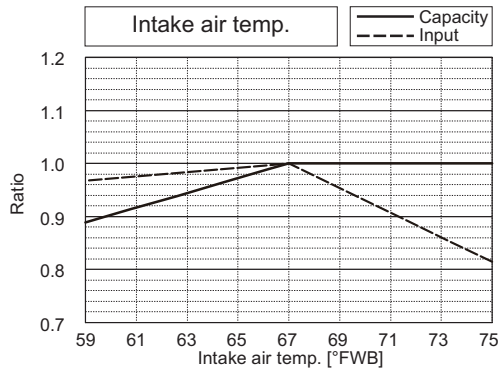
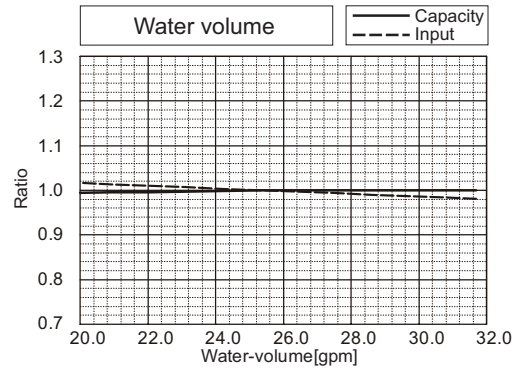
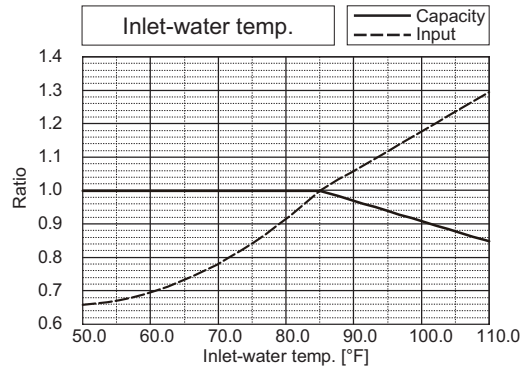


PQHY-		P120THMU	P120YHMu
Nominal Heating Capacity	kW	39.6	39.6
	BTU/h	135,000	135,000
Input	kW	7.62	7.62

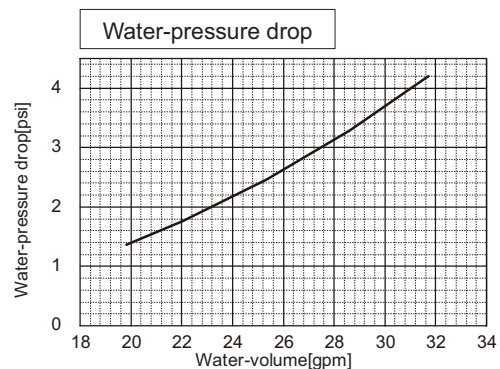
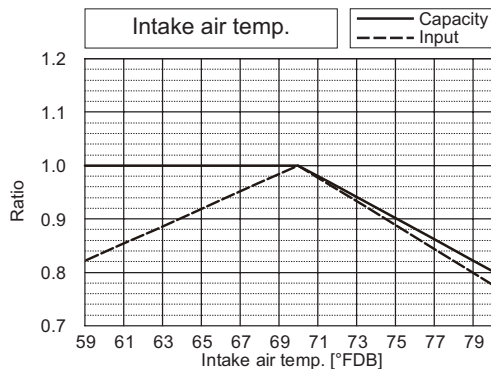
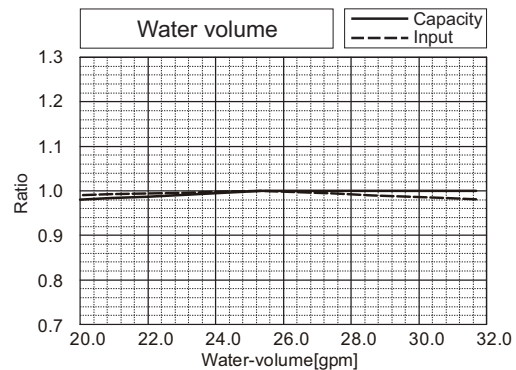
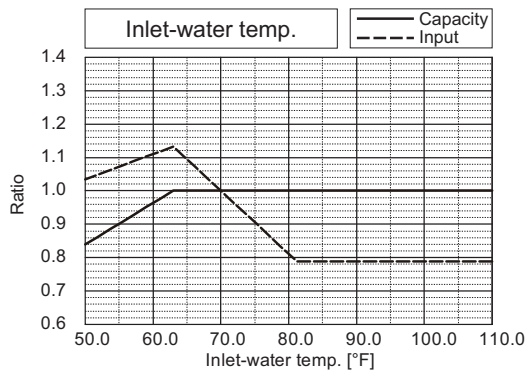


7. CAPACITY TABLES

PQHY-		P144TSHMU	P144YSHMU
Nominal Cooling Capacity	kW	42.6	42.6
	BTU/h	145,400	145,400
Input	kW	7.94	7.94

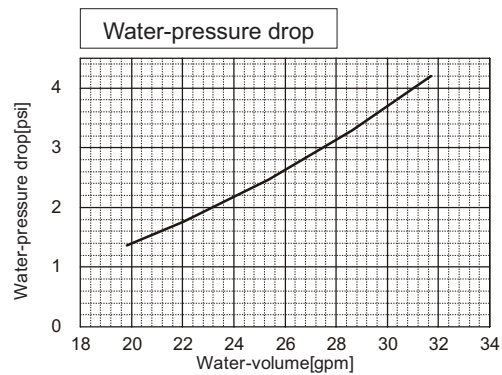
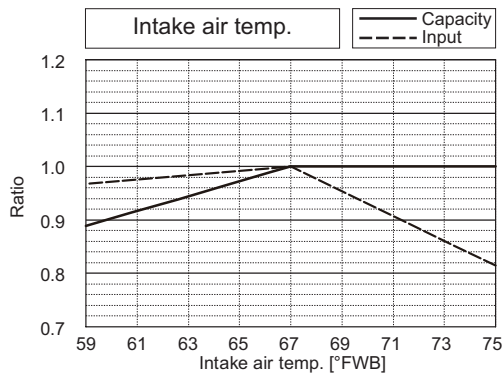
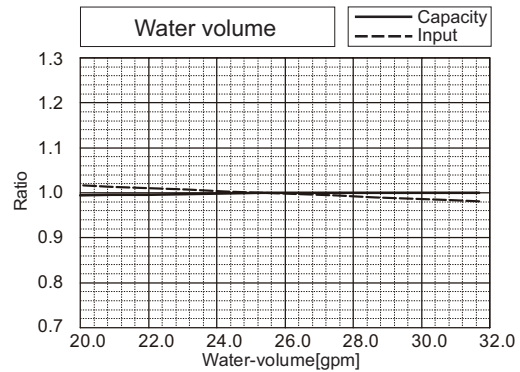
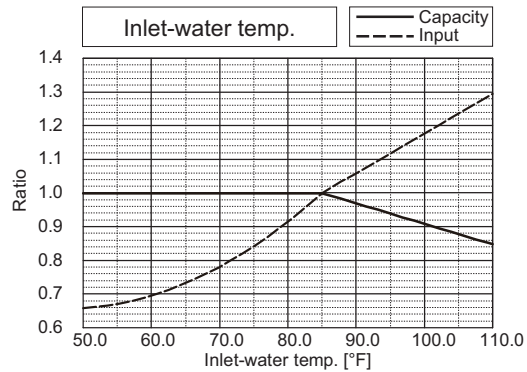


PQHY-		P144TSHMU	P144YSHMU
Nominal Heating Capacity	kW	46.9	46.9
	BTU/h	160,000	160,000
Input	kW	7.89	7.89

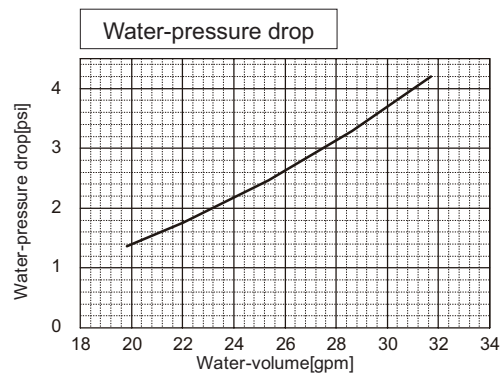
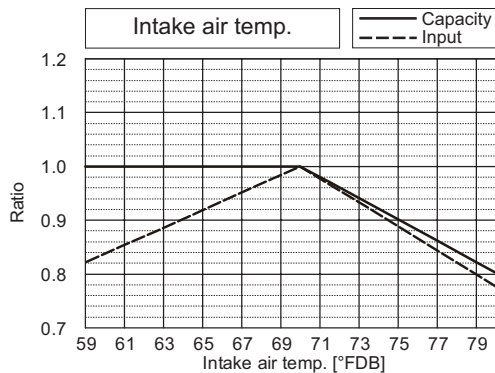
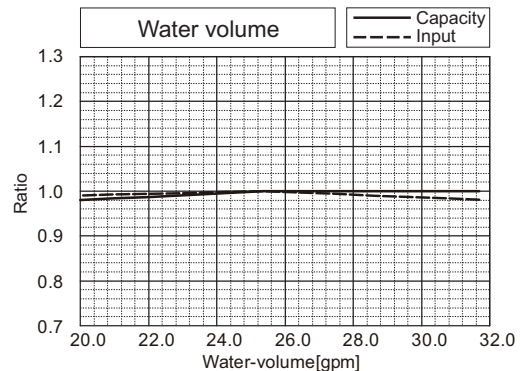
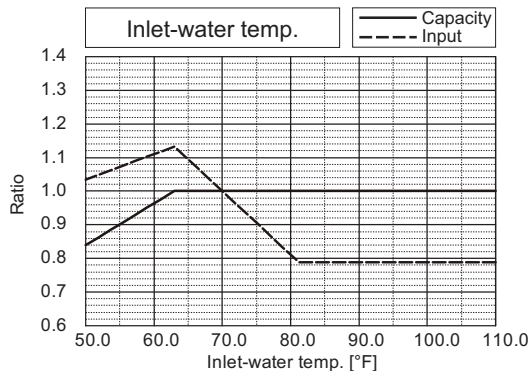


7. CAPACITY TABLES

PQHY-		P168TSHMU	P168YSHMU
Nominal Cooling Capacity	kW	49.6	49.6
	BTU/h	169,100	169,100
Input	kW	9.73	9.73

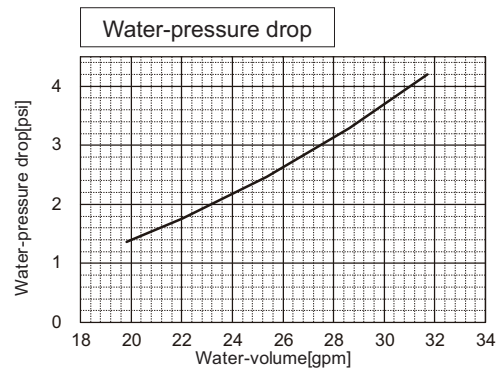
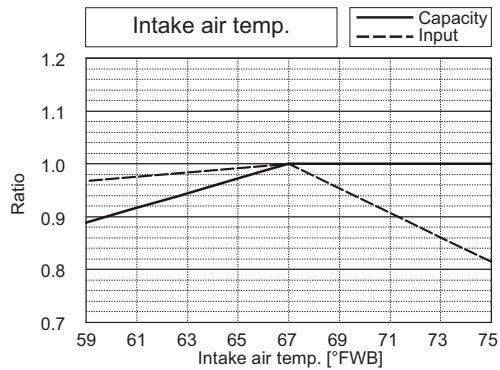
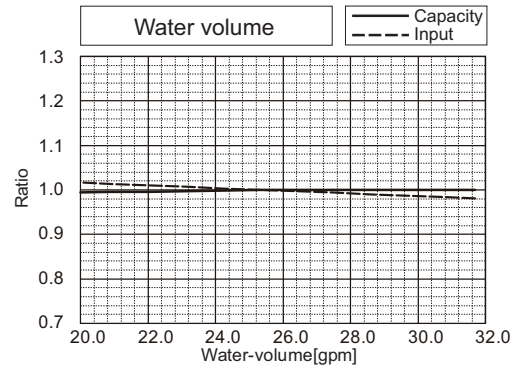
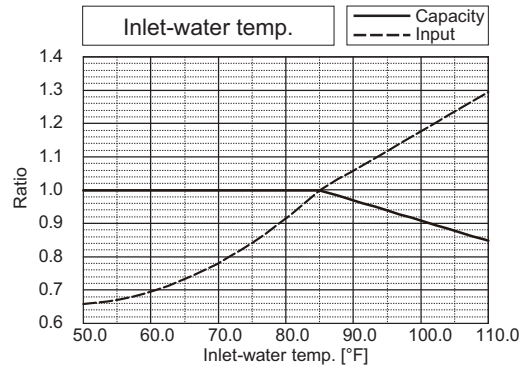


PQHY-		P168TSHMU	P168YSHMU
Nominal Heating Capacity	kW	55.1	55.1
	BTU/h	188,000	188,000
Input	kW	10.32	10.32

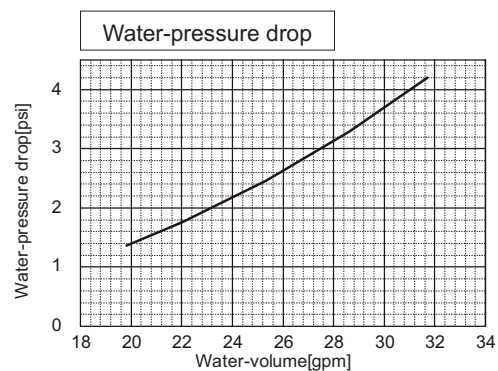
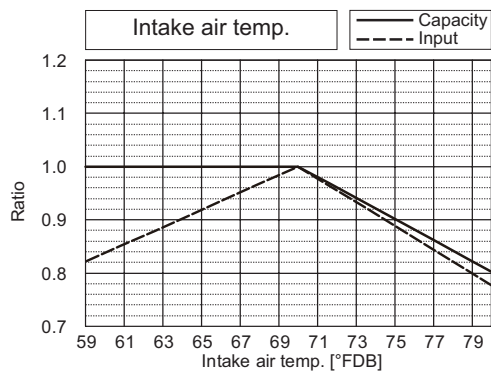
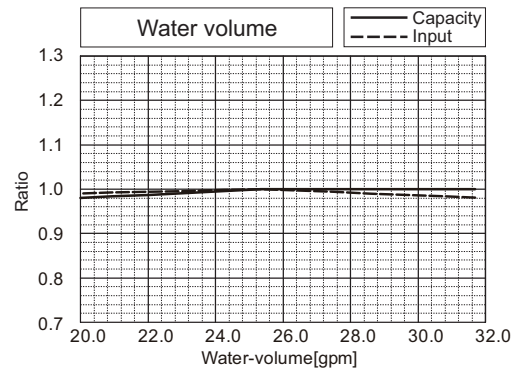
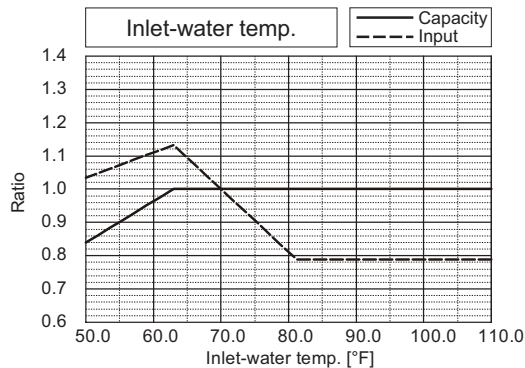


7. CAPACITY TABLES

PQHY-		P192TSHMU	P192YSHMU
Nominal Cooling Capacity	kW	56.4	56.4
	BTU/h	192,600	192,600
Input	kW	11.55	11.55

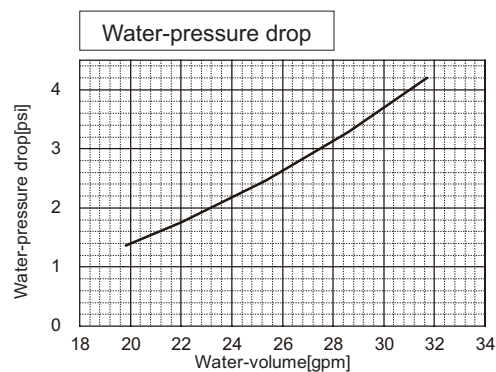
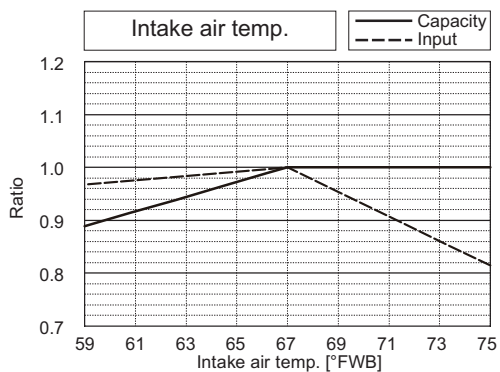
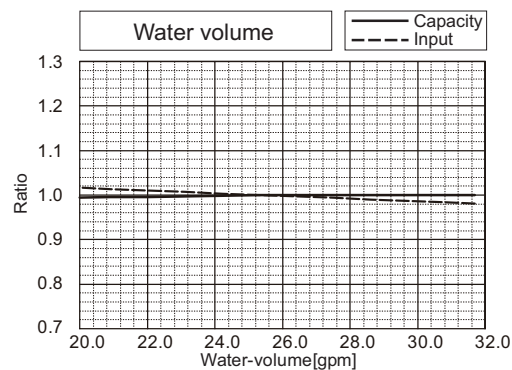
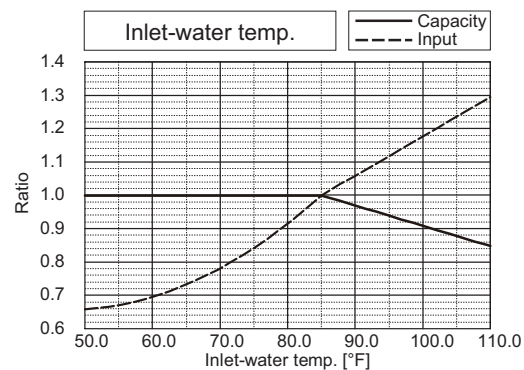


PQHY-		P192TSHMU	P192YSHMU
Nominal Heating Capacity	kW	63.3	63.3
	BTU/h	216,000	216,000
Input	kW	12.74	12.74

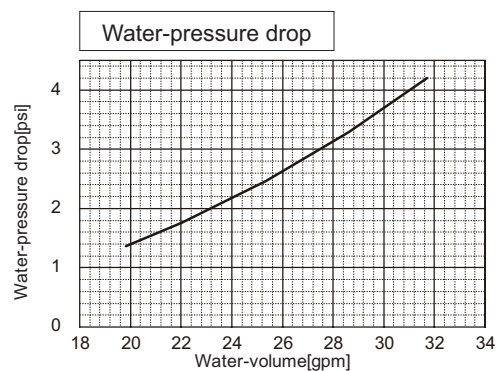
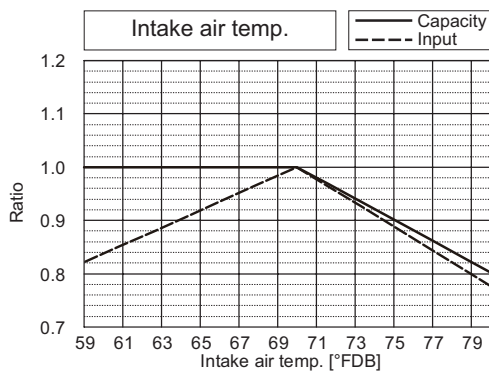
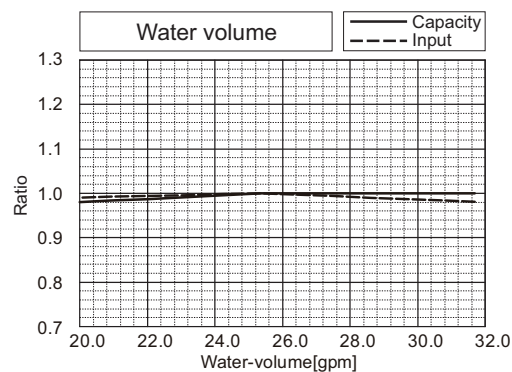
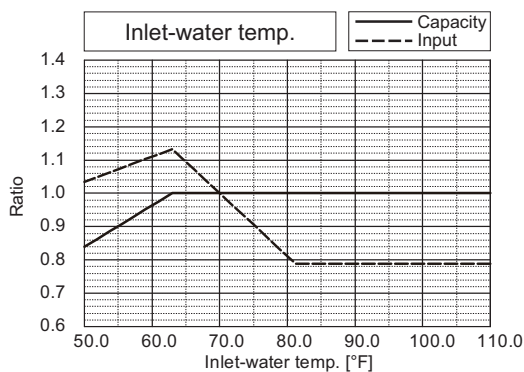


7. CAPACITY TABLES

	PQHY-	P216TSHMU	P216YSHMU
Nominal Cooling Capacity	kW	63.3	63.3
	BTU/h	216,000	216,000
Input	kW	13.50	13.50

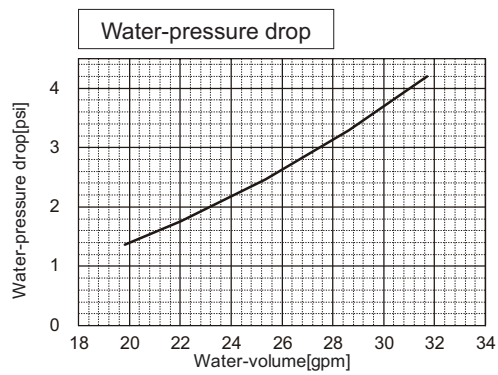
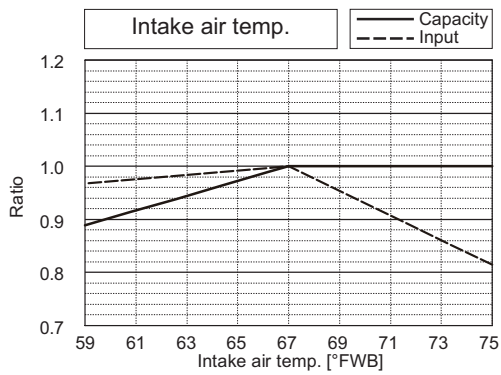
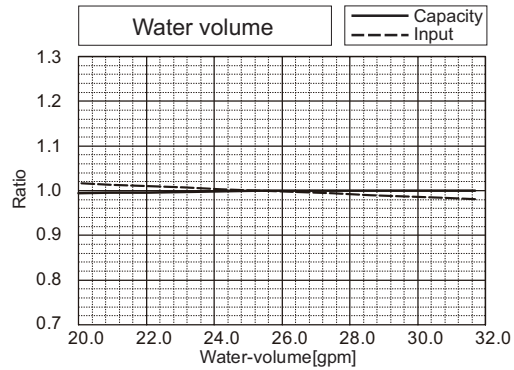
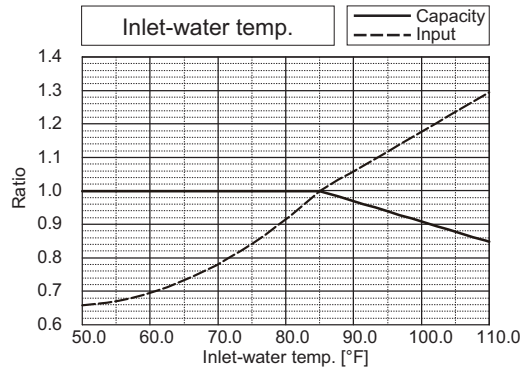


	PQHY-	P216TSHMU	P216YSHMU
Nominal Heating Capacity	kW	71.2	71.2
	BTU/h	243,000	243,000
Input	kW	14.22	14.22

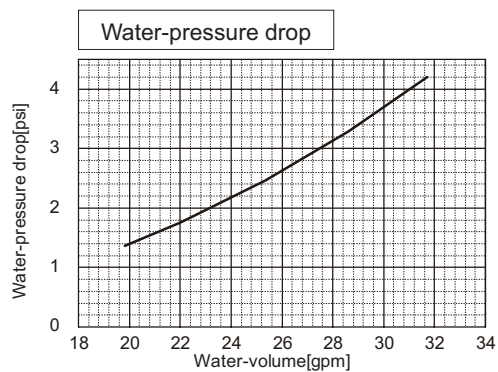
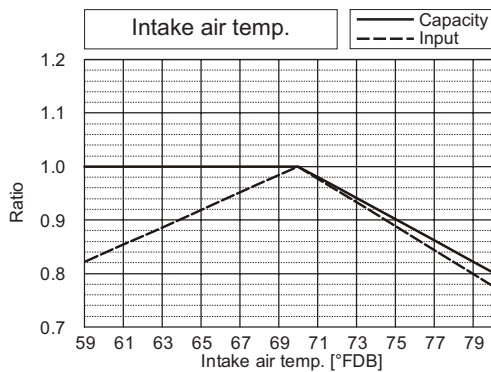
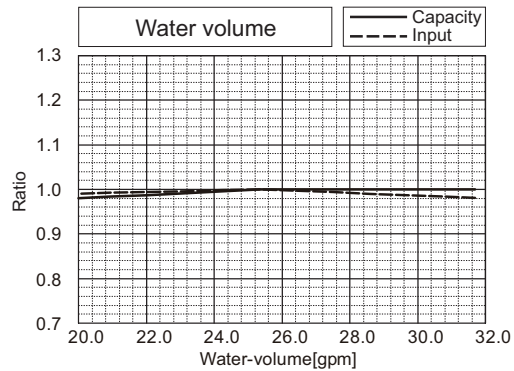
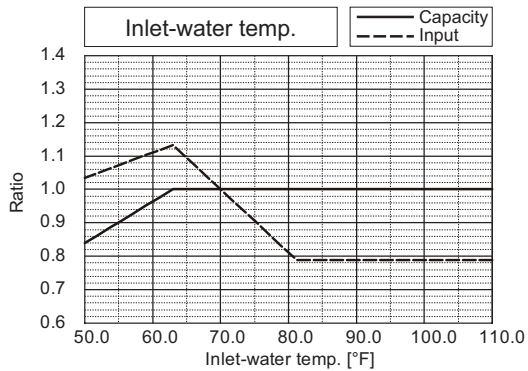


7. CAPACITY TABLES

	PQHY-	P240TSHMU	P240YSHMU
Nominal Cooling Capacity	kW	70.3	70.3
	BTU/h	240,000	240,000
Input	kW	15.47	15.47

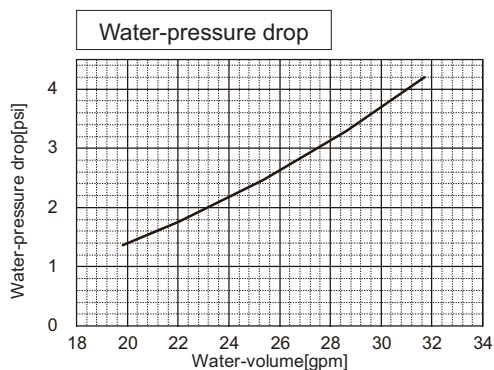
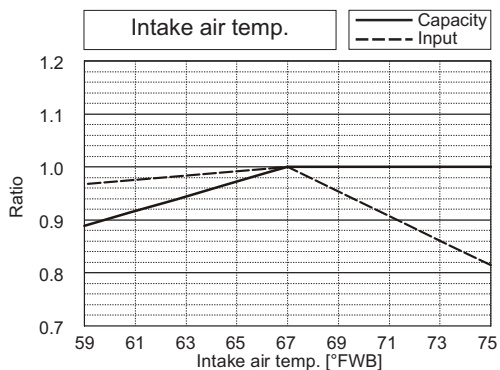
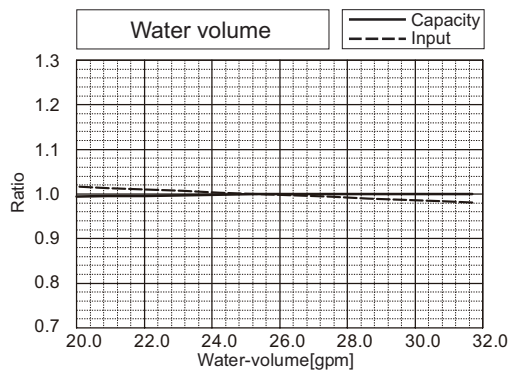
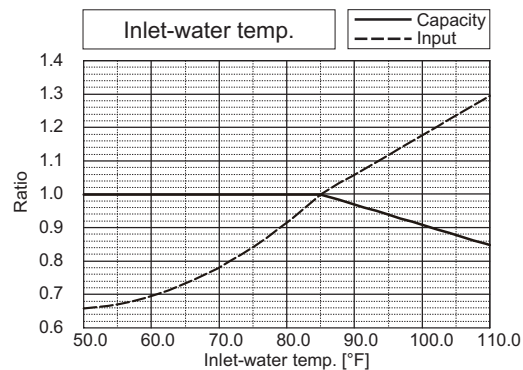


	PQHY-	P240TSHMU	P240YSHMU
Nominal Heating Capacity	kW	79.1	79.1
	BTU/h	270,000	270,000
Input	kW	15.70	15.70

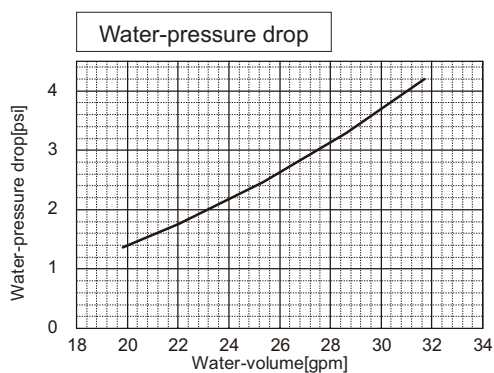
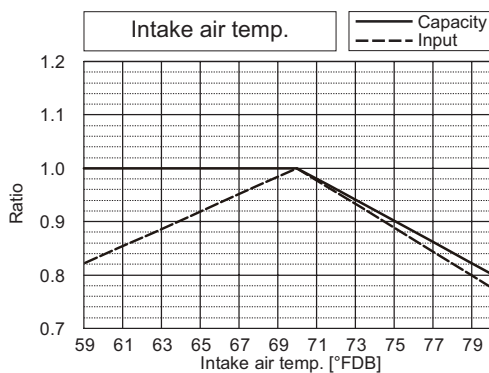
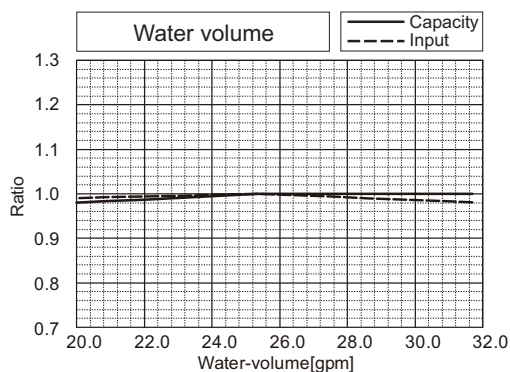
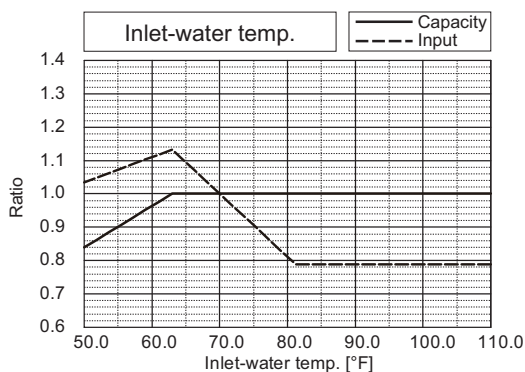


7. CAPACITY TABLES

PQHY-		P264TSHMU	P264YSHMU
Nominal Cooling Capacity	kW	77.8	77.8
	BTU/h	265,400	265,400
Input	kW	15.49	15.49

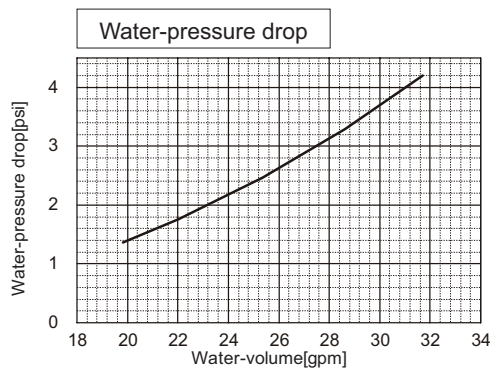
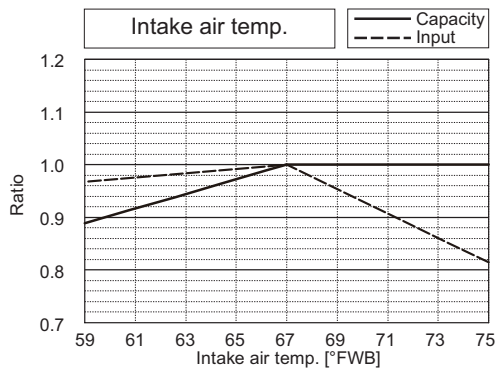
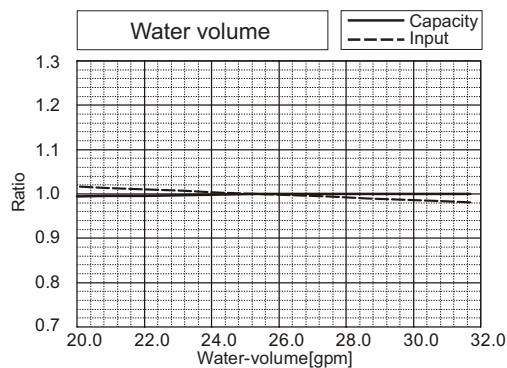
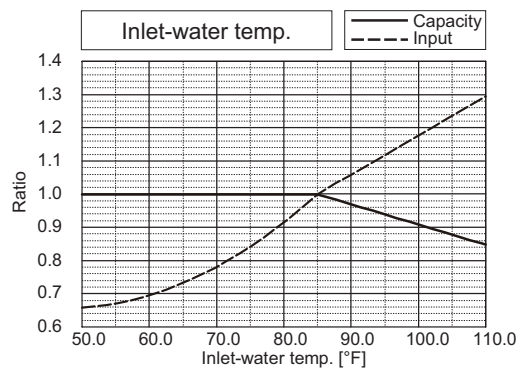


PQHY-		P264TSHMU	P264YSHMU
Nominal Heating Capacity	kW	86.8	86.8
	BTU/h	296,000	296,000
Input	kW	16.68	16.68

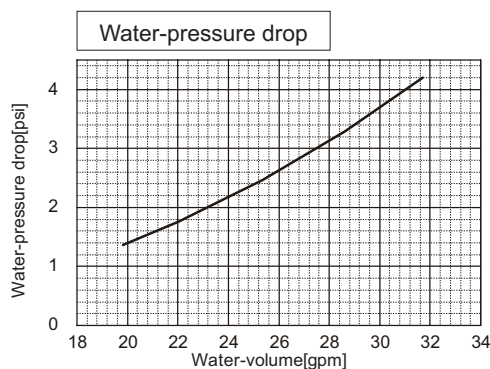
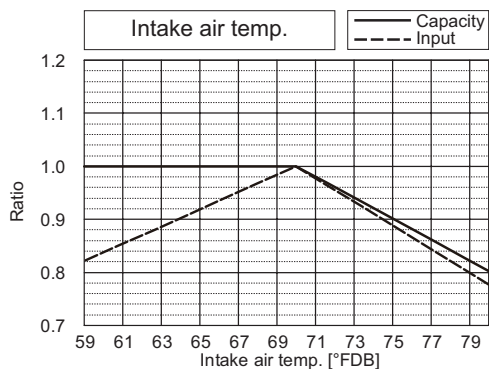
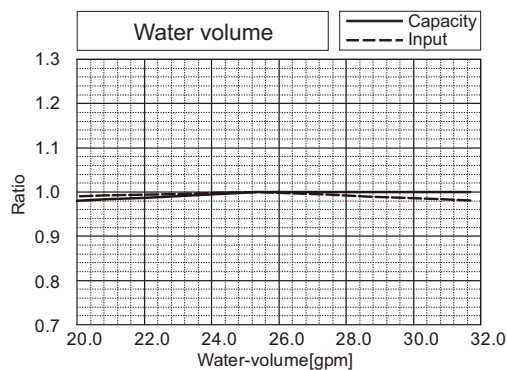
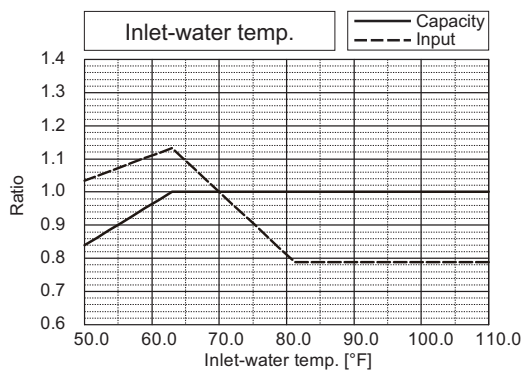


7. CAPACITY TABLES

	PQHY-	P288TSHMU	P288YSHMU
Nominal Cooling Capacity	kW	84.7	84.7
	BTU/h	288,900	288,900
Input	kW	17.32	17.32

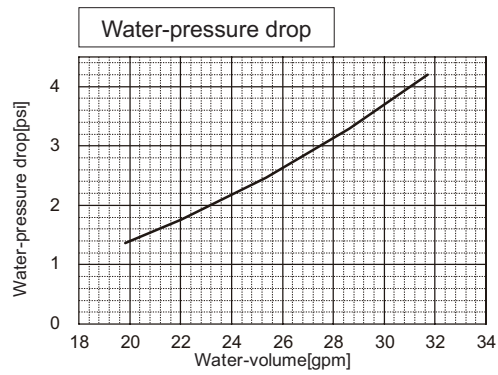
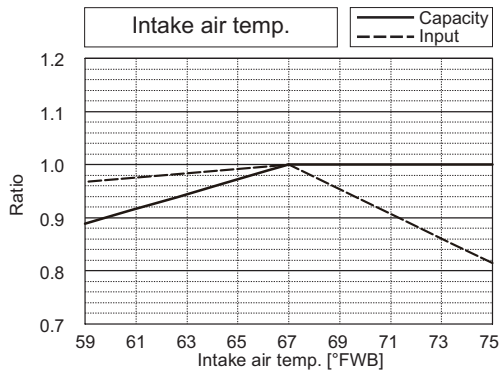
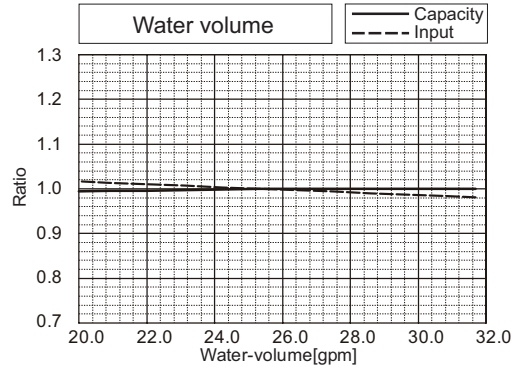
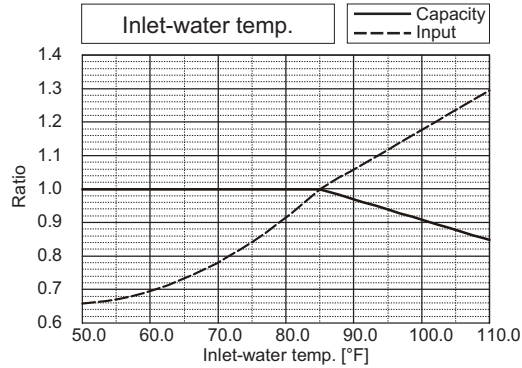


	PQHY-	P288TSHMU	P288YSHMU
Nominal Heating Capacity	kW	95.0	95.0
	BTU/h	324,000	324,000
Input	kW	19.10	19.10

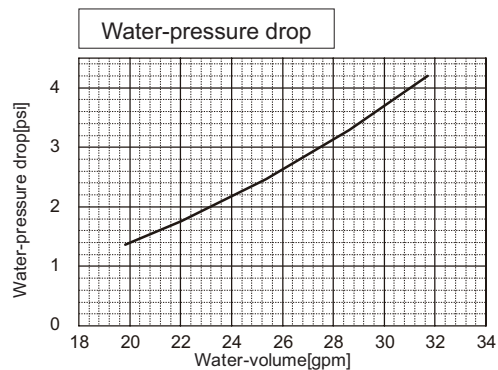
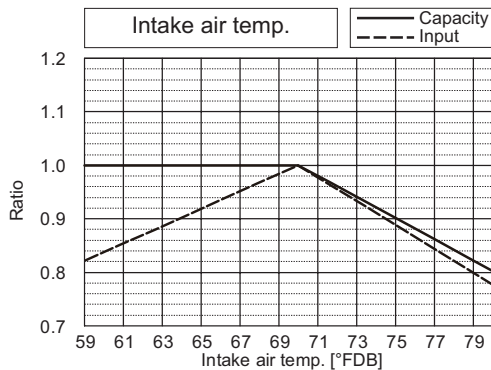
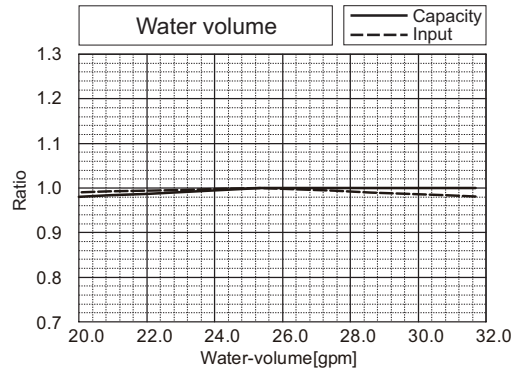
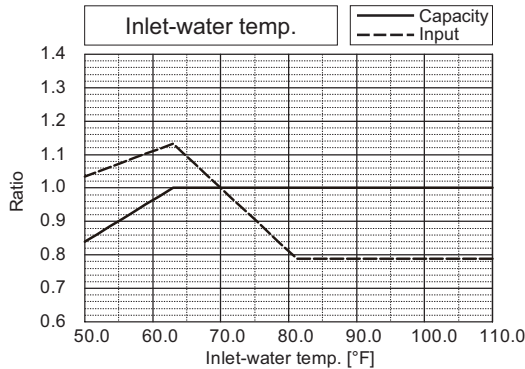


7. CAPACITY TABLES

PQHY-		P312TSHMU	P312YSHMU
Nominal Cooling Capacity	kW	91.5	91.5
	BTU/h	312,200	312,200
Input	kW	19.27	19.27

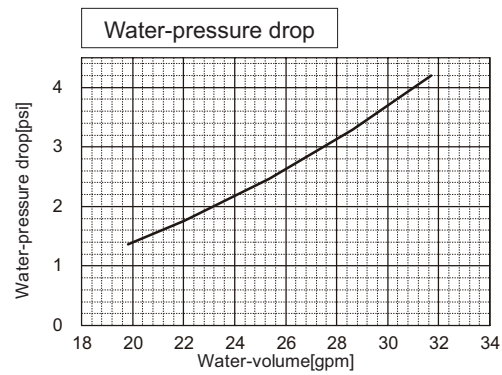
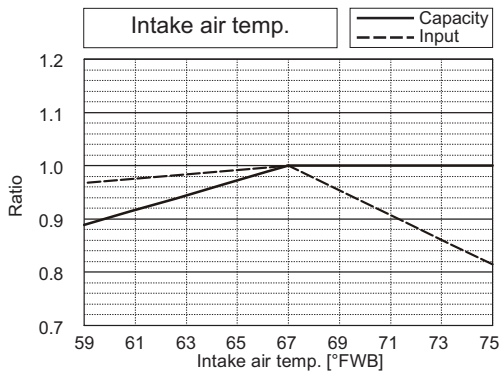
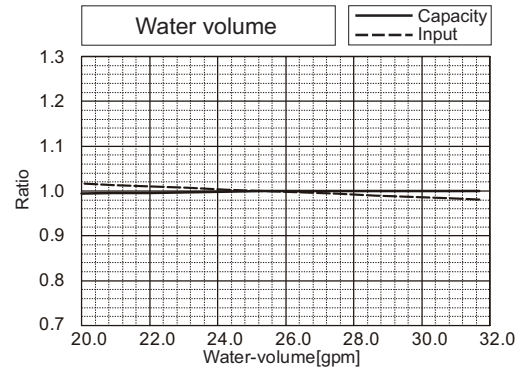
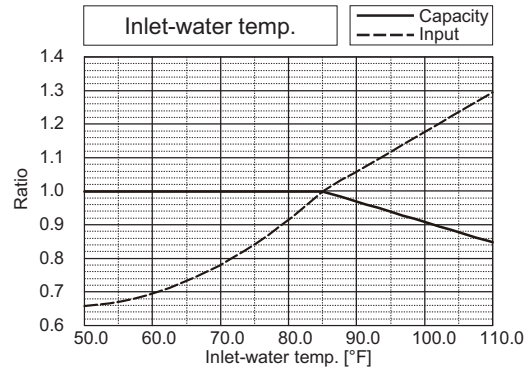


PQHY-		P312TSHMU	P312YSHMU
Nominal Heating Capacity	kW	102.9	102.9
	BTU/h	351,000	351,000
Input	kW	20.58	20.58

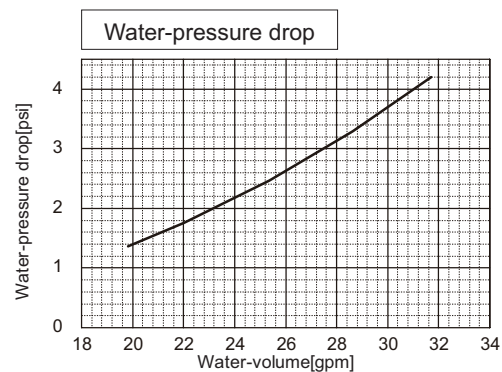
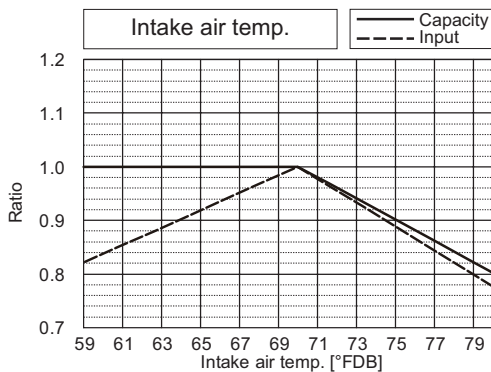
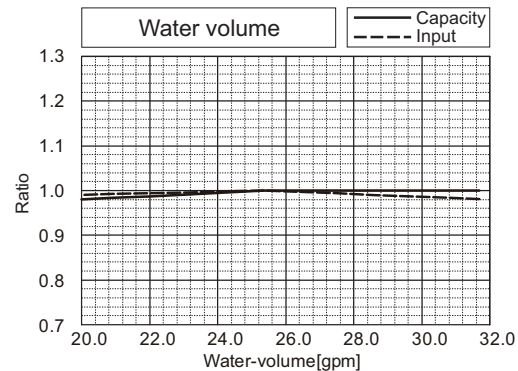
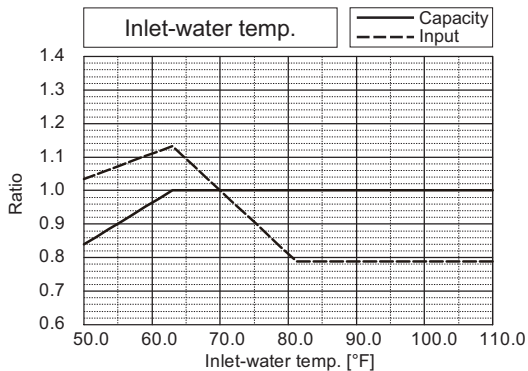


7. CAPACITY TABLES

PQHY-		P336TSHMU	P336YSHMU
Nominal Cooling Capacity	kW	98.5	98.5
	BTU/h	336,000	336,000
Input	kW	21.23	21.23

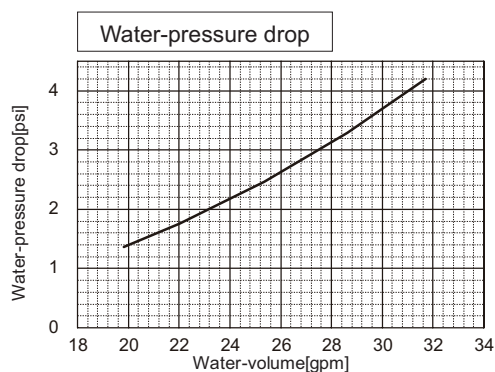
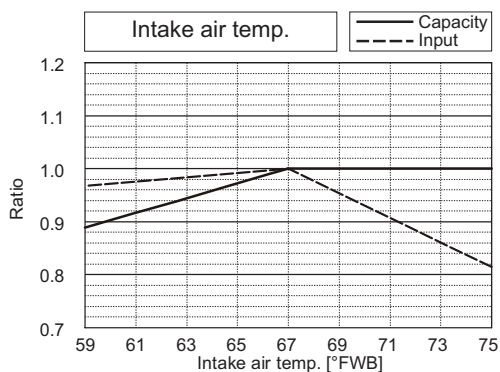
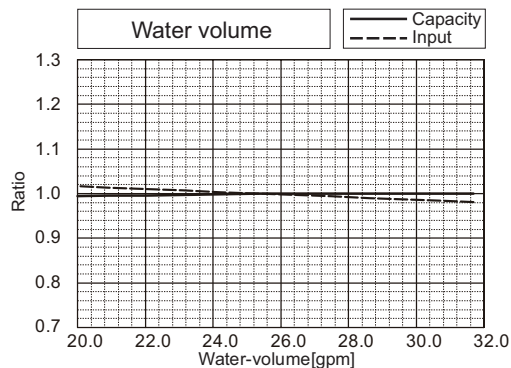
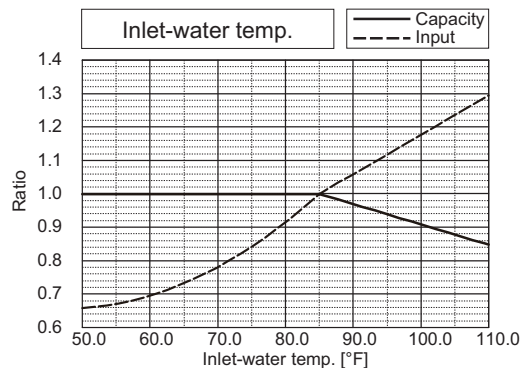


PQHY-		P336TSHMU	P336YSHMU
Nominal Heating Capacity	kW	110.8	110.8
	BTU/h	378,000	378,000
Input	kW	22.07	22.07

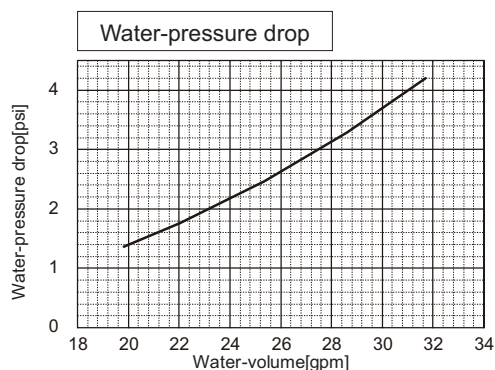
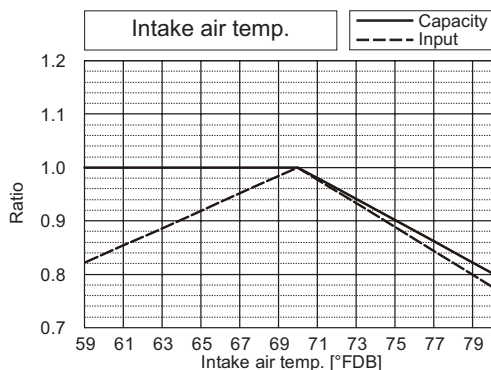
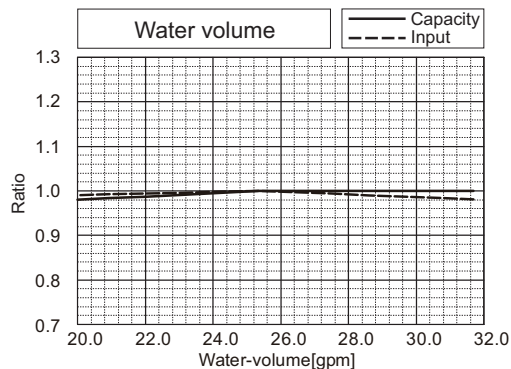
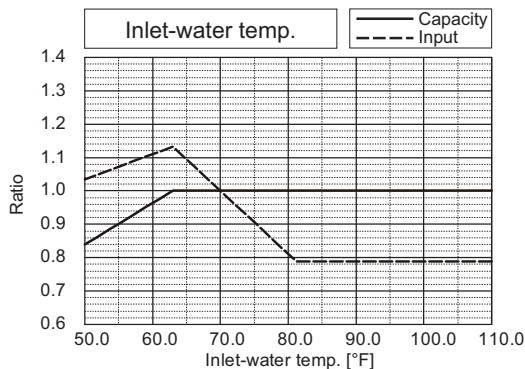


7. CAPACITY TABLES

PQHY-		P360TSHMU	P360YSHMU
Nominal Cooling Capacity	kW	105.5	105.5
	BTU/h	360,000	360,000
Input	kW	23.21	23.21



PQHY-		P360TSHMU	P360YSHMU
Nominal Heating Capacity	kW	118.7	118.7
	BTU/h	405,000	405,000
Input	kW	23.55	23.55



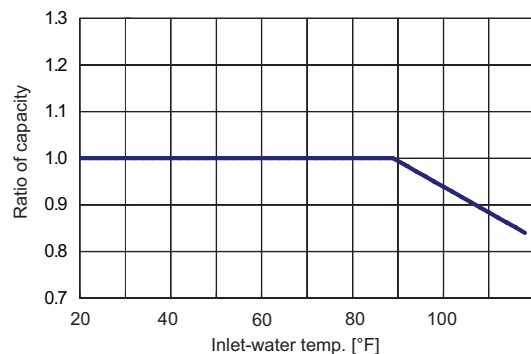
7. CAPACITY TABLES

Water temperature correction factors (Geothermal)

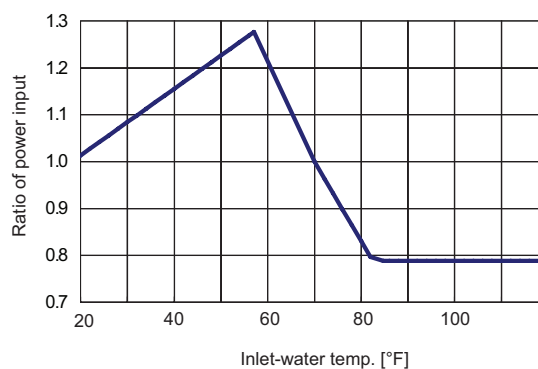
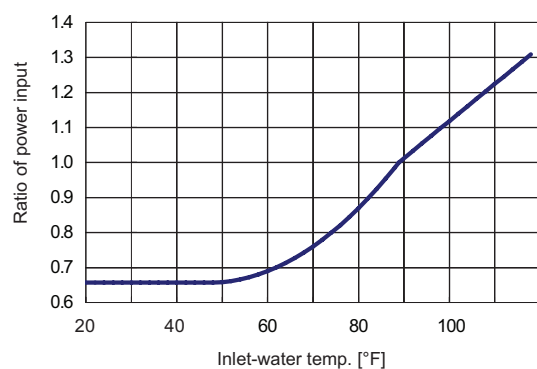
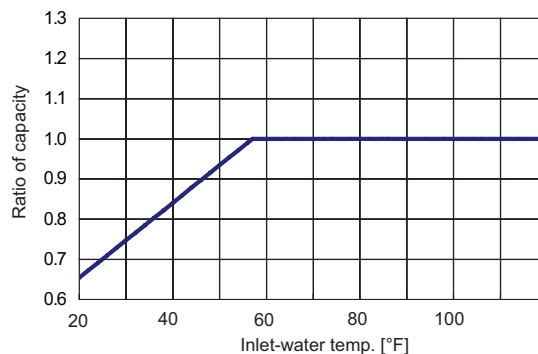
These geothermal correction factor charts illustrate the performance of the equipment with the unit's low temp dip switch (SW3-9) to ON, and glycol protection for freezing down to 5° F.

PQHY-P72~360T(S)HMU-A/Y(S)HMU-A

① Cooling Inlet-water temp.



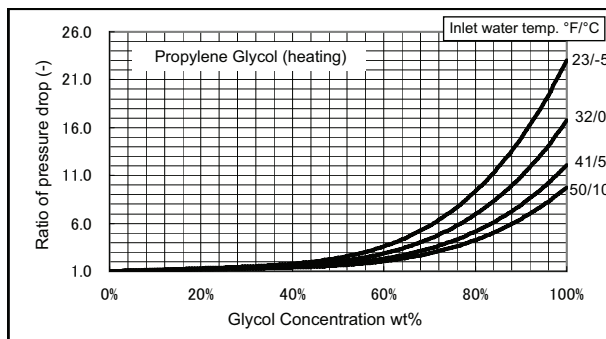
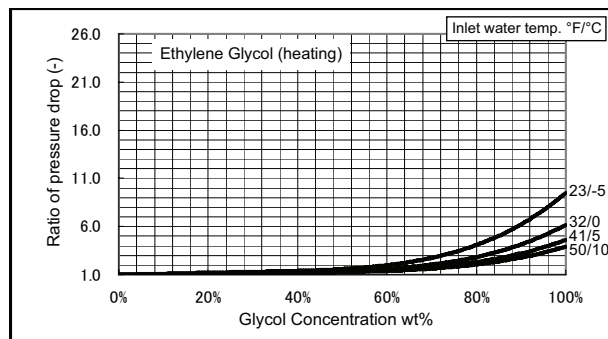
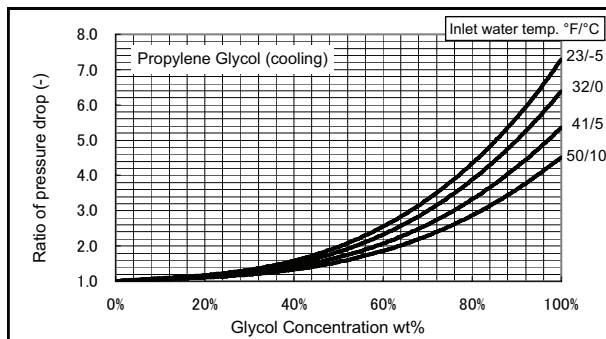
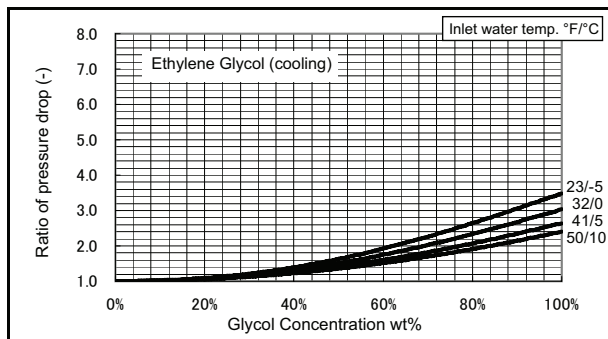
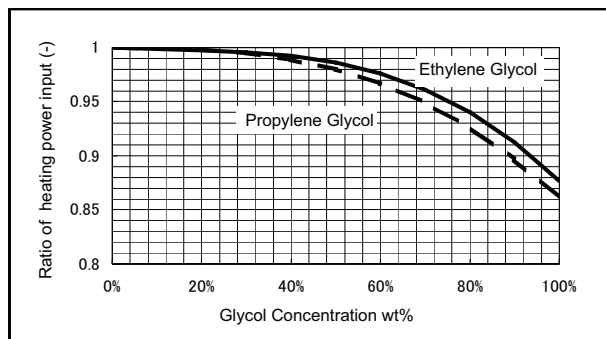
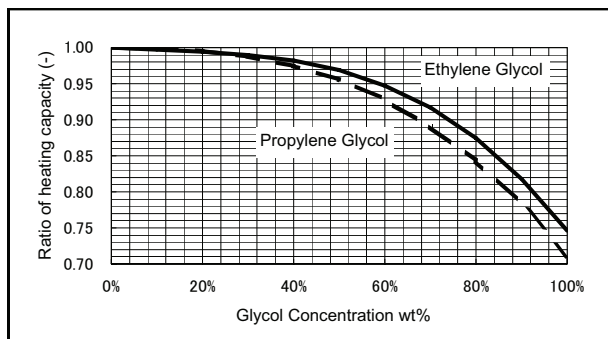
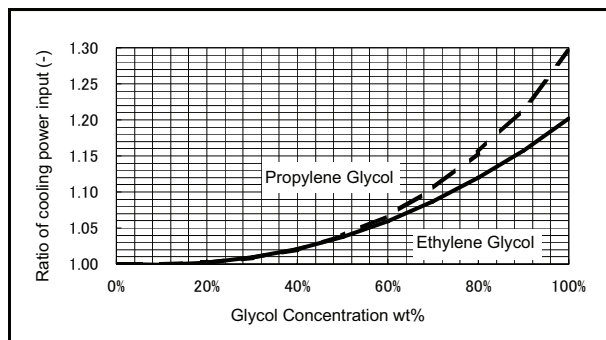
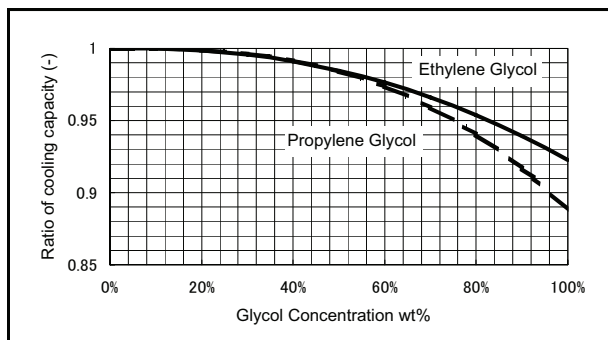
② Heating Inlet-water temp.



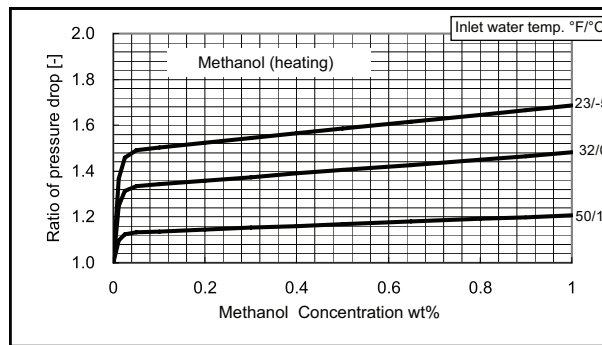
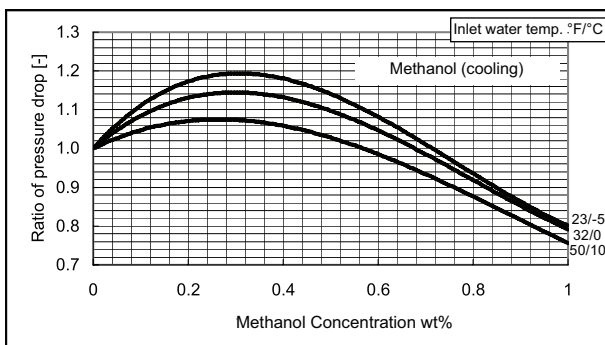
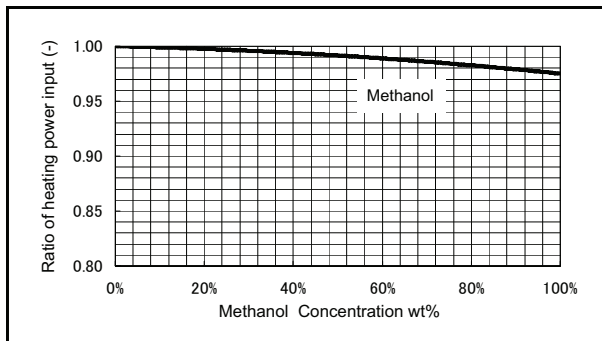
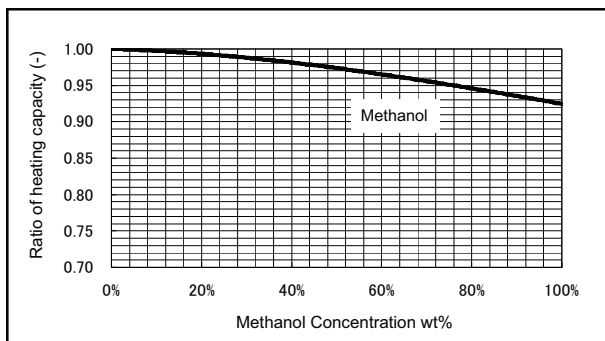
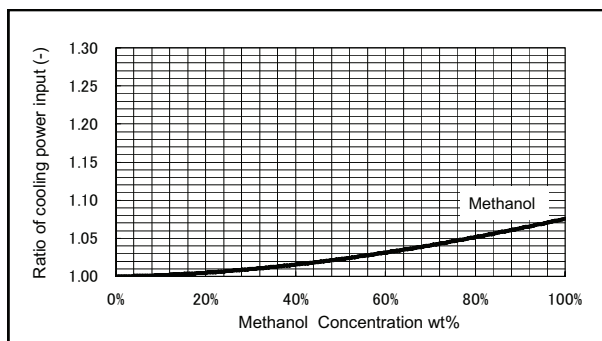
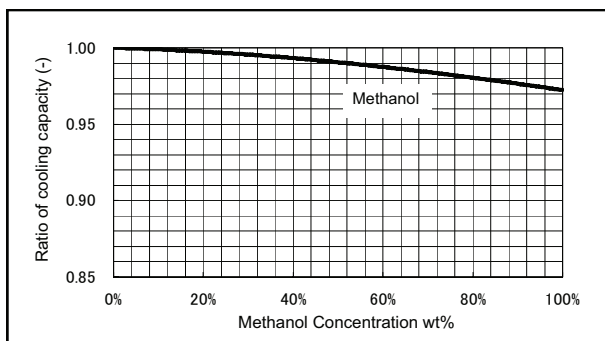
7. CAPACITY TABLES

Glycol correction factors

PQHY-P72~360T(S)HMU-A/Y(S)HMU-A



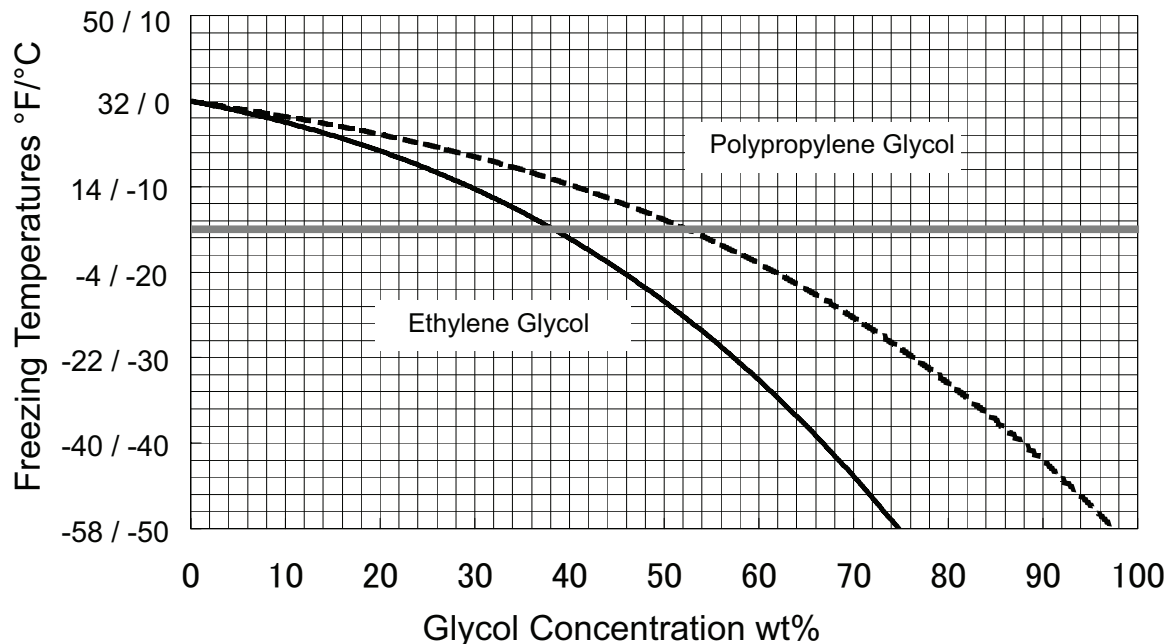
7. CAPACITY TABLES



7. CAPACITY TABLES

Glycol freeze protection %

PQHY-P72~360T(S)HMU-A/Y(S)HMU-A

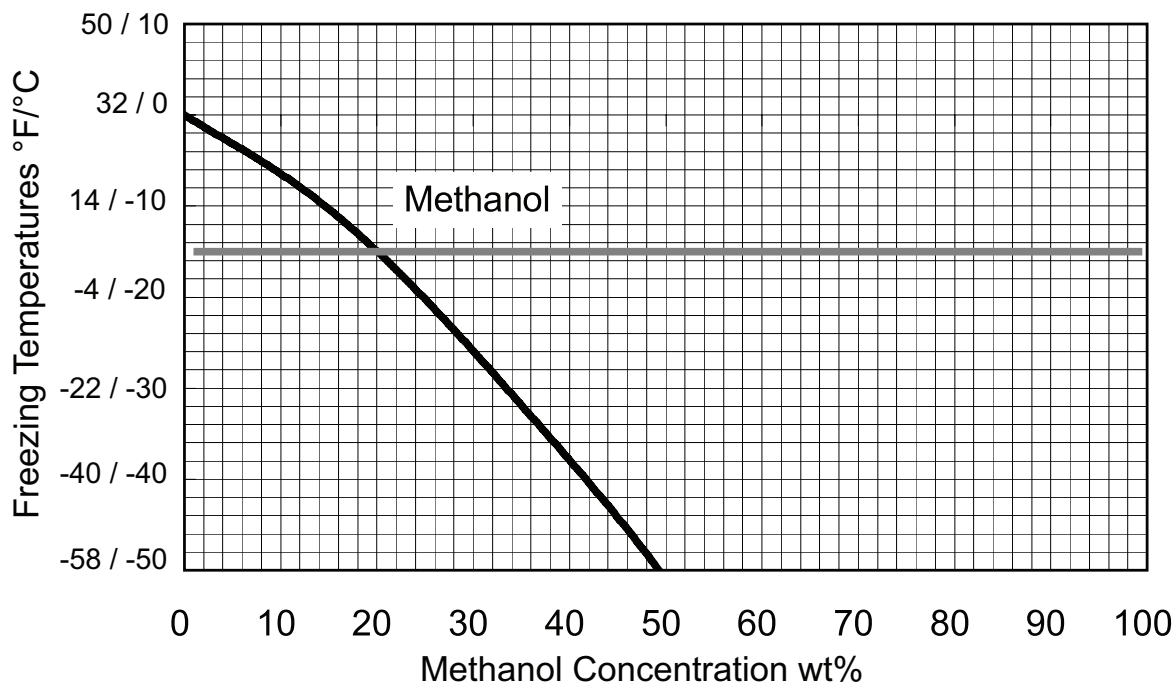


Note:

A specific chemical company provided the graph above, but the freezing temperature conditions may be slightly different for each company.

Please obtain specific data directly from the chemical company.

It is also recommended to set the glycol concentration to a percentage that will maintain the freezing temperature at 5°F/-15°C or less.



Note:

A specific chemical company provided the graph above, but the freezing temperature conditions may be slightly different for each company.

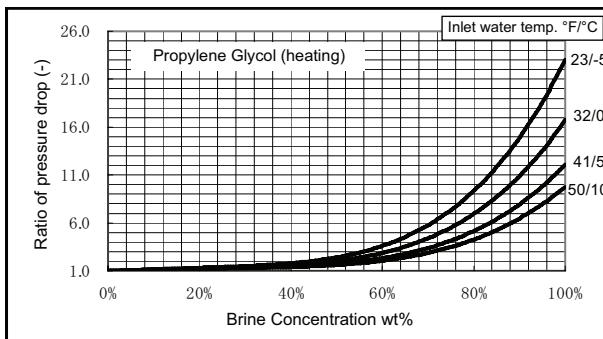
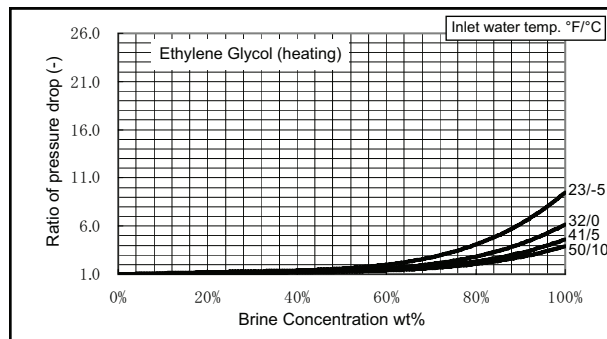
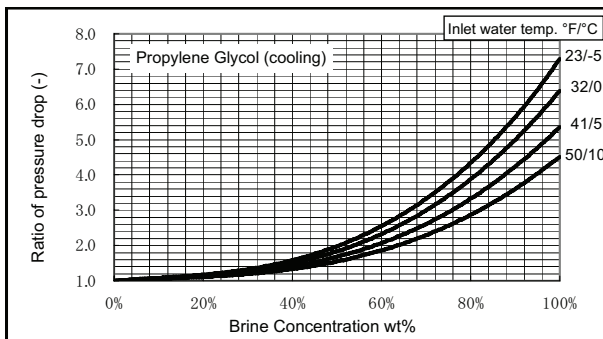
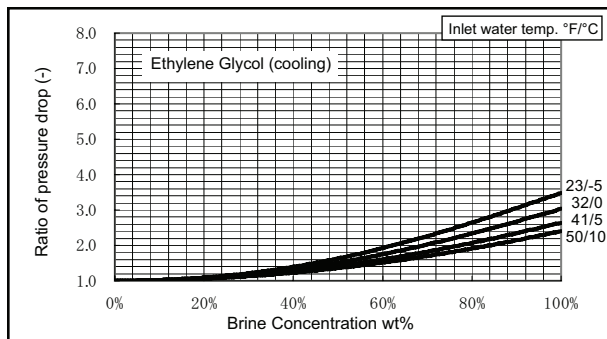
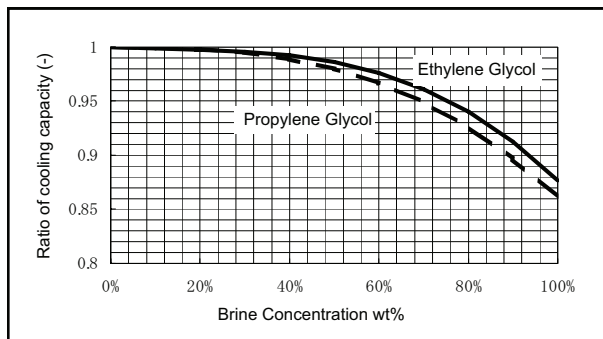
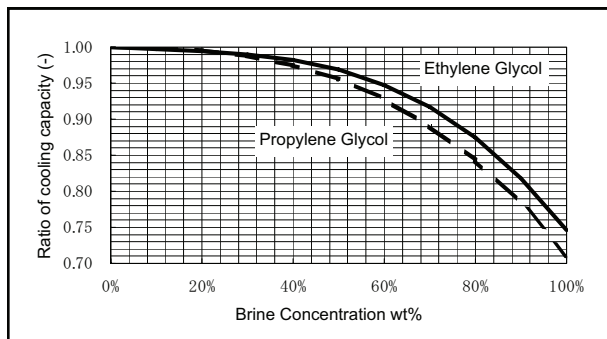
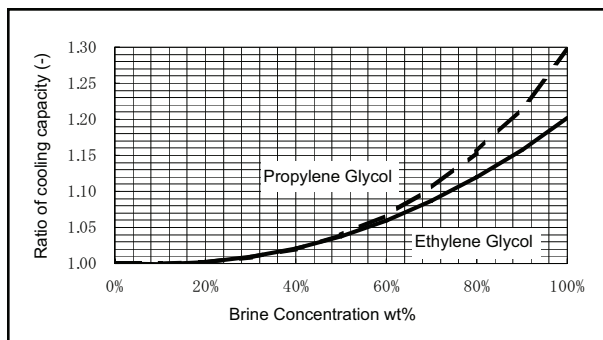
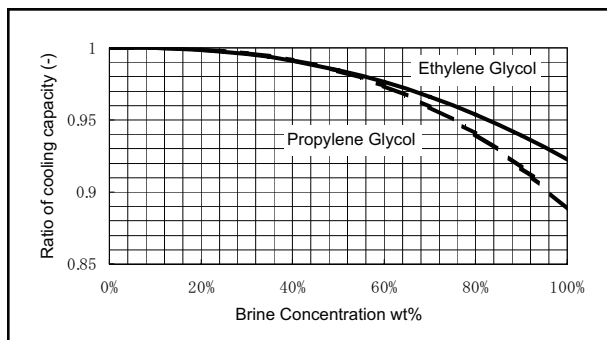
Please obtain specific data directly from the chemical company.

It is also recommended to set the methanol concentration to a percentage that will maintain the freezing temperature at 5°F/-15°C or less.

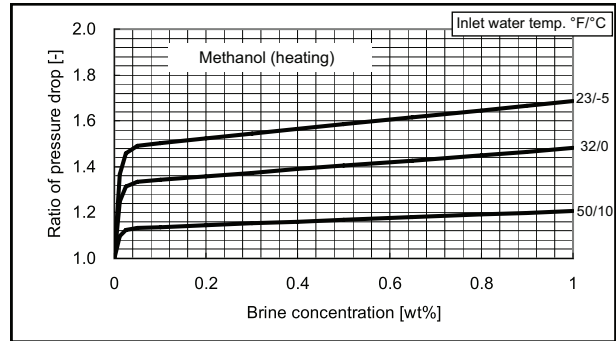
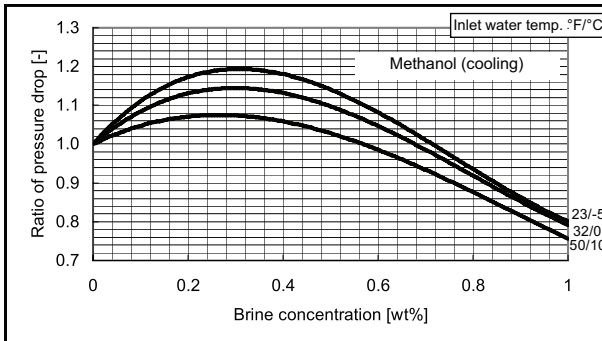
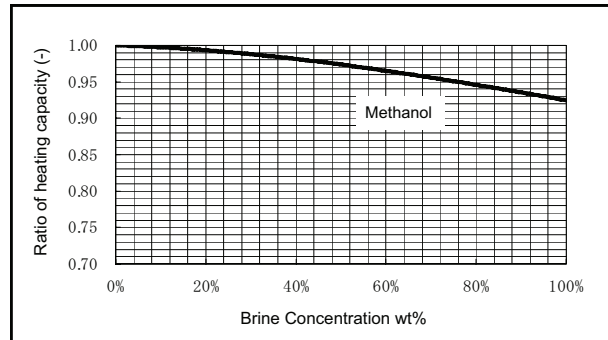
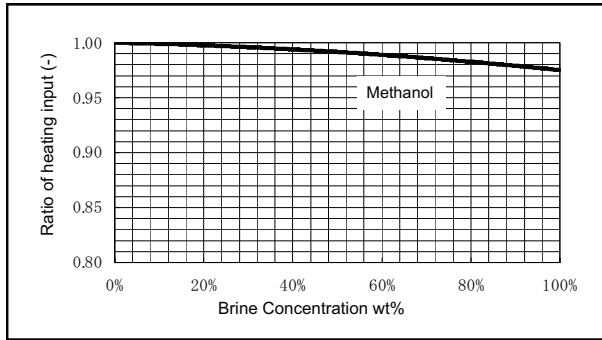
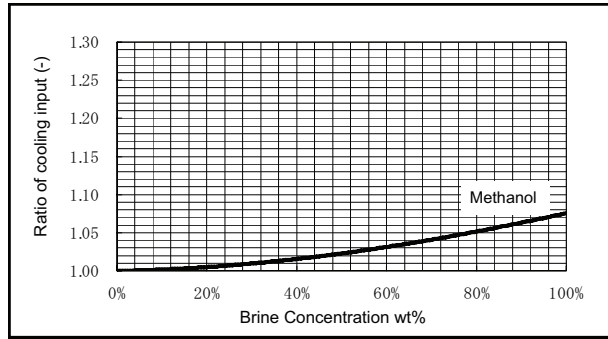
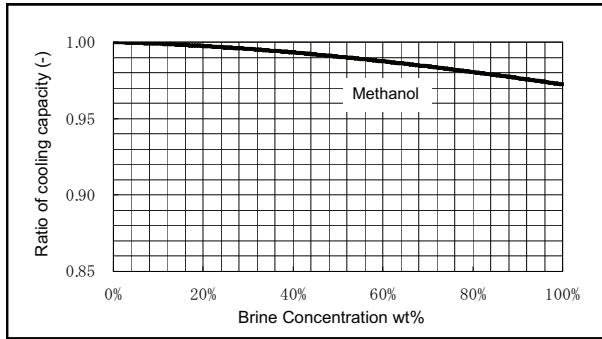
7. CAPACITY TABLES

Glycol correction factors

PQHY-P72~360T(S)HMU-A/Y(S)HMU-A



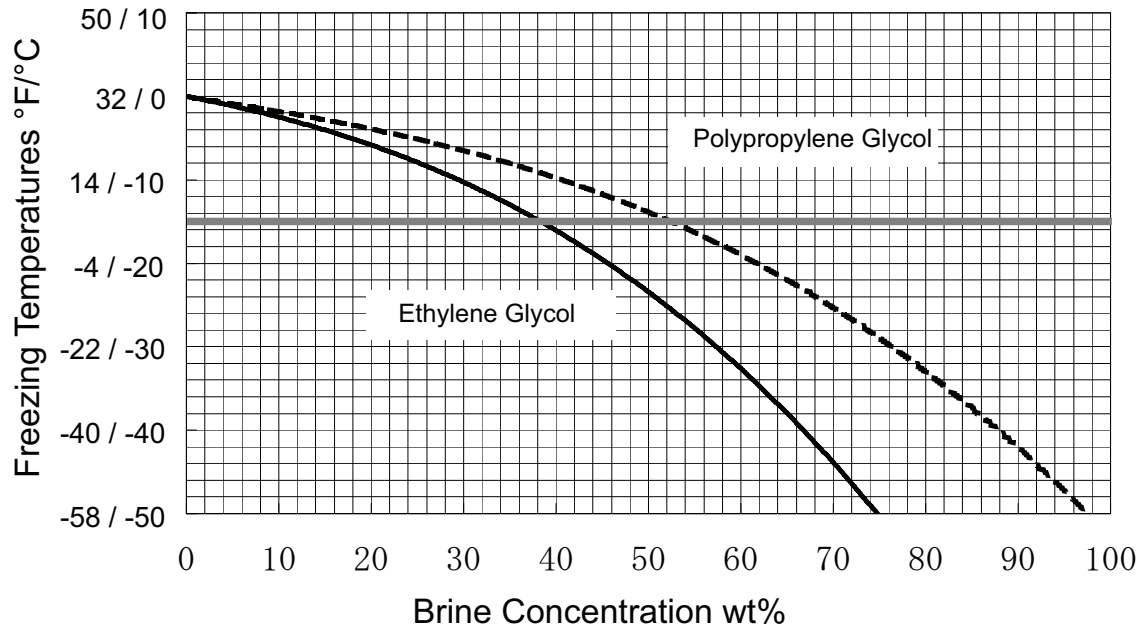
7. CAPACITY TABLES



7. CAPACITY TABLES

Glycol freeze protection %

PQHY-P72~360T(S)HMU-A/Y(S)HMU-A

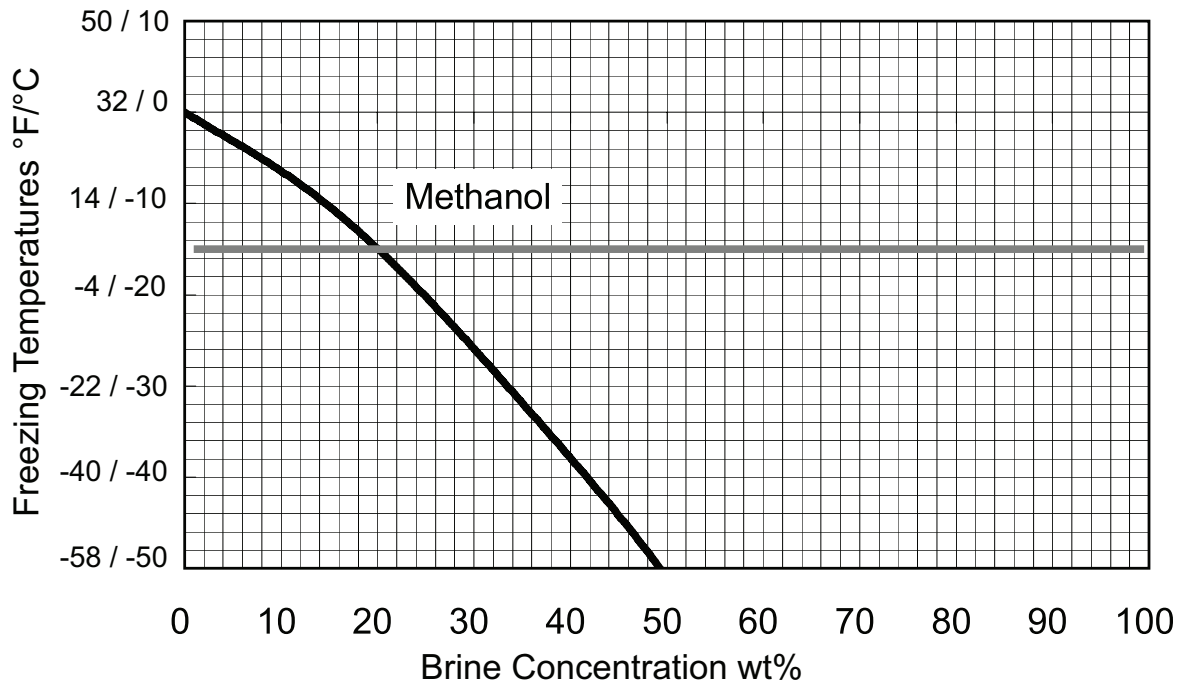


Note:

A specific chemical company provided the graph above, but the freezing temperature conditions may be slightly different for each company.

Please obtain specific data directly from the chemical company.

It is also recommended to set the brine concentration to a percentage that will maintain the freezing temperature at 5°F/-15°C or less.



Note:

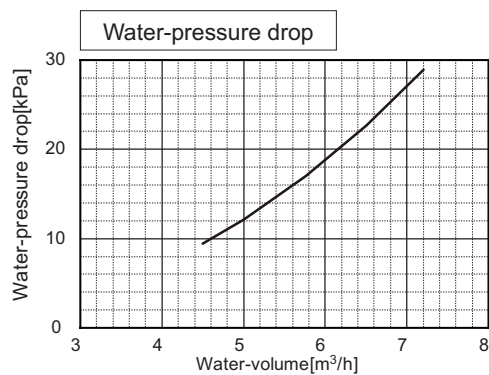
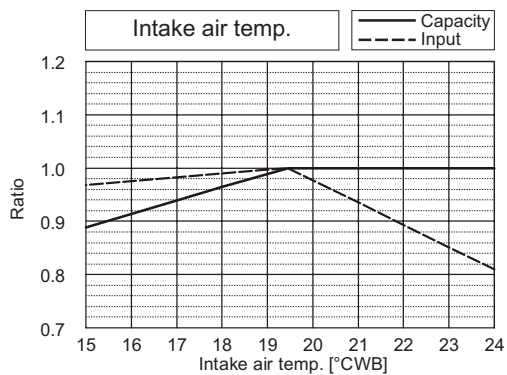
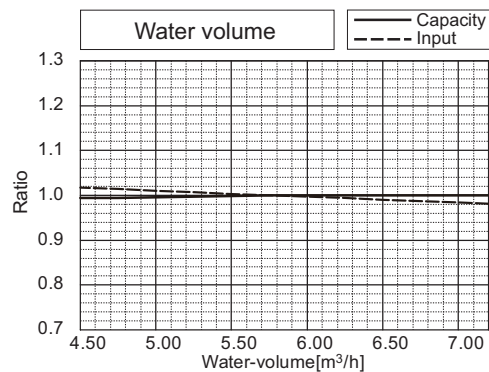
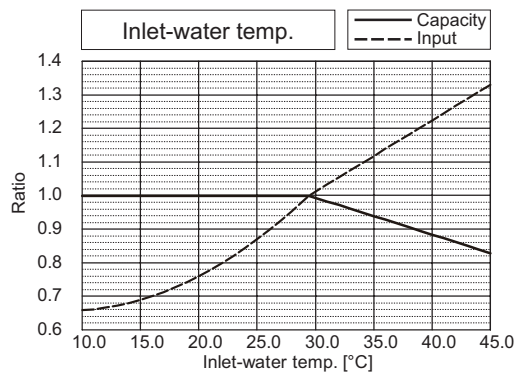
A specific chemical company provided the graph above, but the freezing temperature conditions may be slightly different for each company.

Please obtain specific data directly from the chemical company.

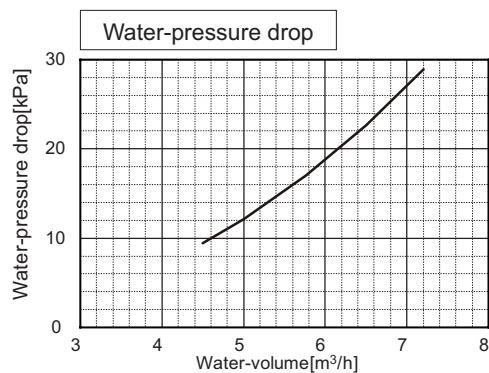
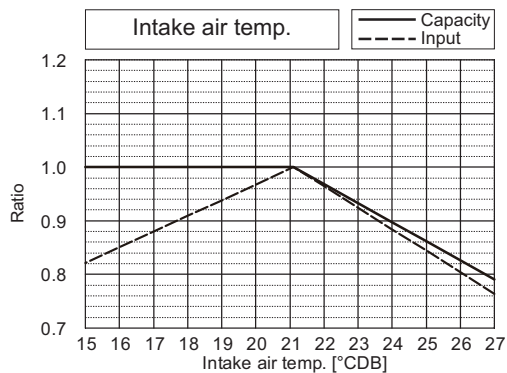
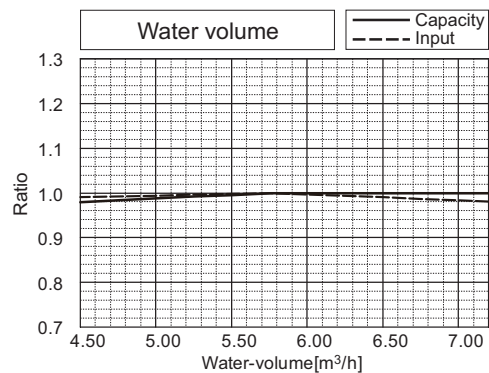
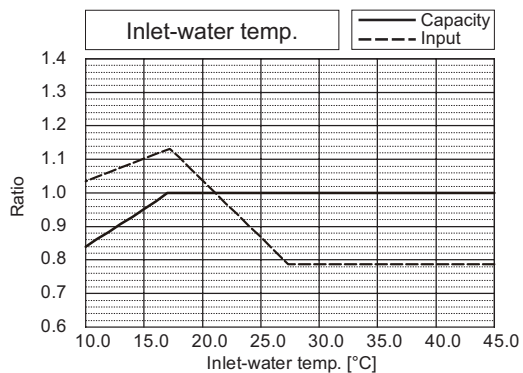
It is also recommended to set the brine concentration to a percentage that will maintain the freezing temperature at 5°F/-15°C or less.

7. CAPACITY TABLES

PQHY-		P72THMU	P72YHMU
Nominal Cooling Capacity	kW	21.3	21.3
	BTU/h	72,700	72,700
Input		3.85	3.85

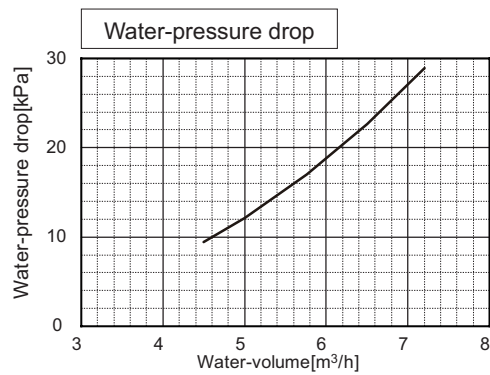
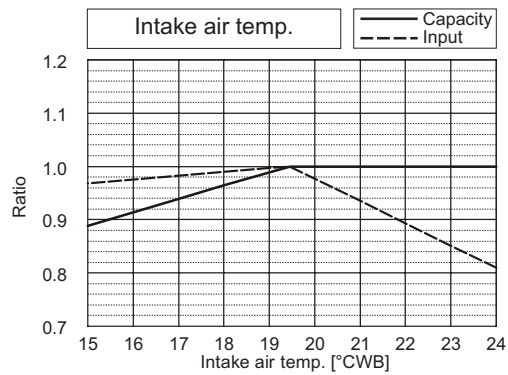
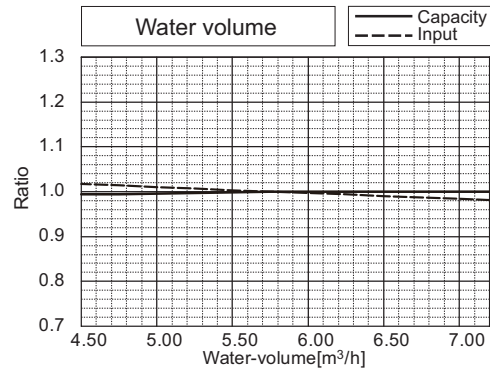
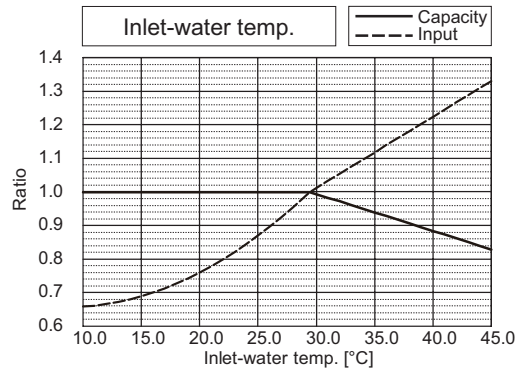


PQHY-		P72THMU	P72YHMU
Nominal Heating Capacity	kW	23.4	23.4
	BTU/h	80,000	80,000
Input		3.83	3.83

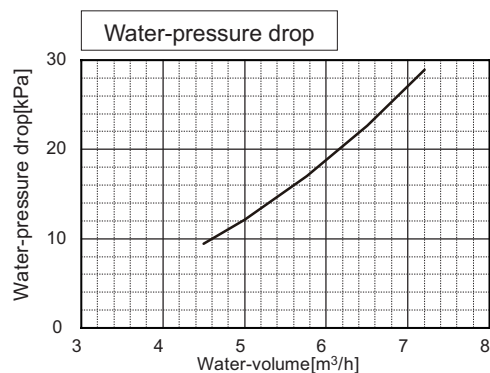
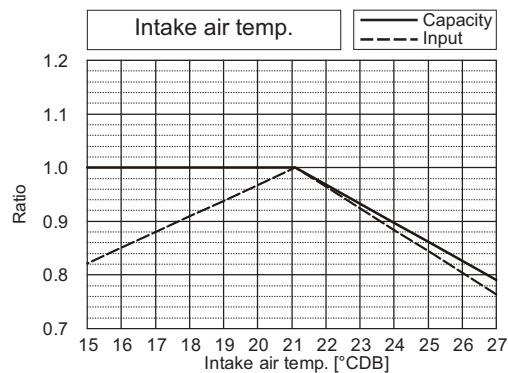
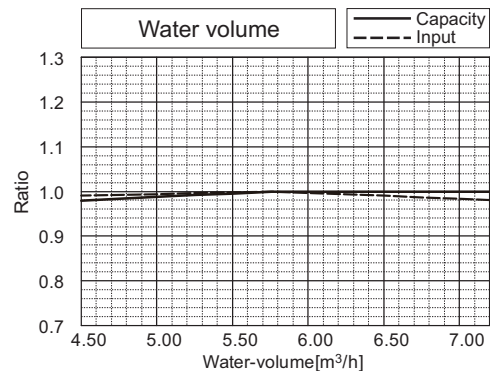
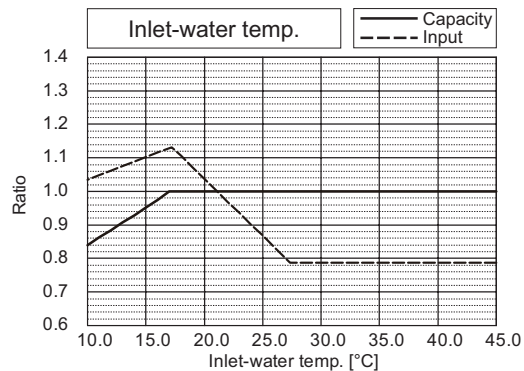


7. CAPACITY TABLES

PQHY-	P96THMU	P96YHMU
Nominal Cooling Capacity	28.2	28.2
Input	5.61	5.61

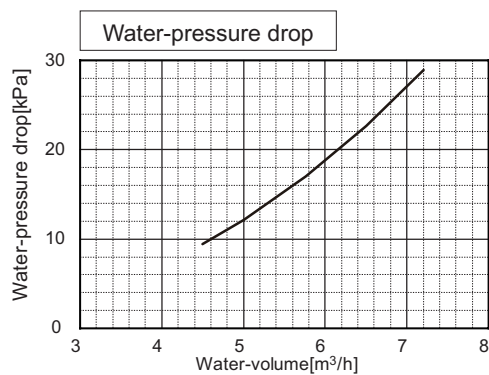
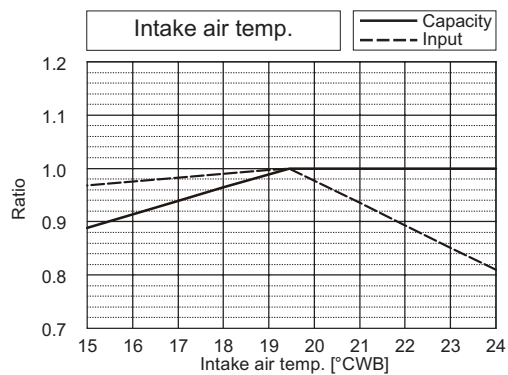
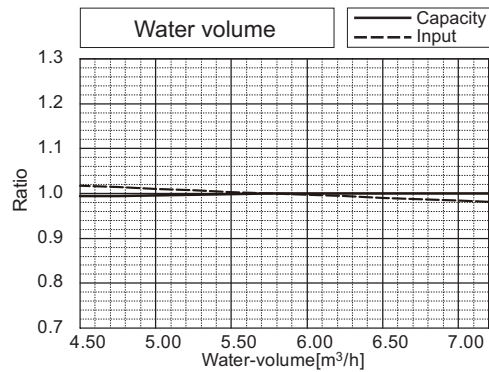
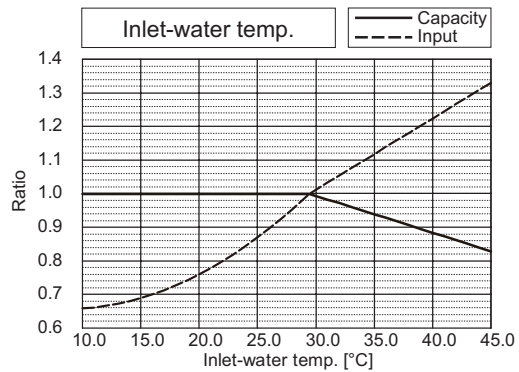


PQHY-	P96THMU	P96YHMU
Nominal Heating Capacity	31.7	31.7
Input	6.18	6.18

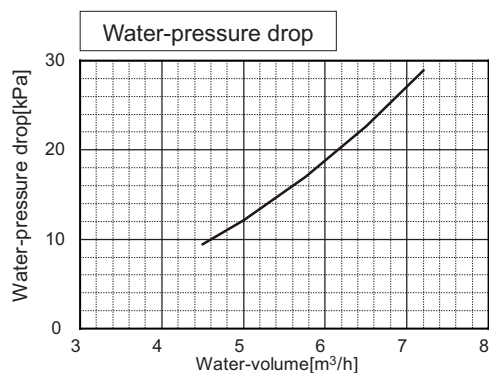
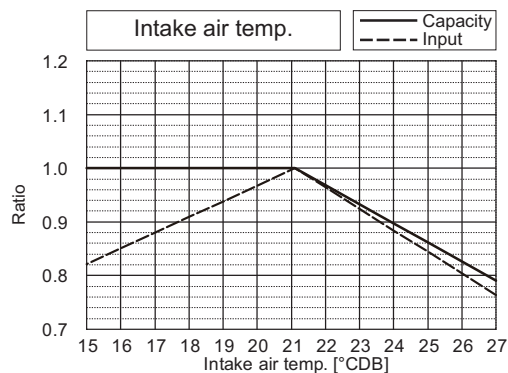
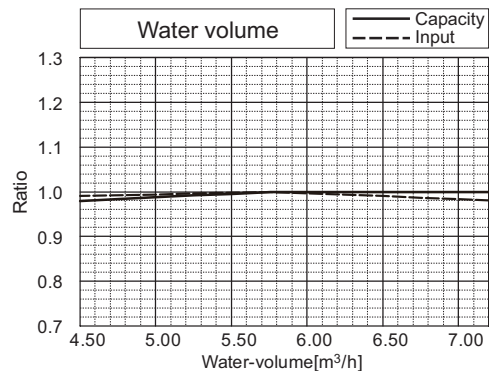
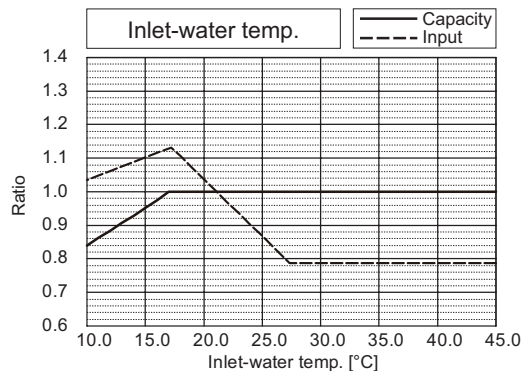


7. CAPACITY TABLES

PQHY-		P120THMU	P120YHMu
Nominal Cooling Capacity	kW	35.2	35.2
	BTU/h	120,000	120,000
Input		kW	7.51

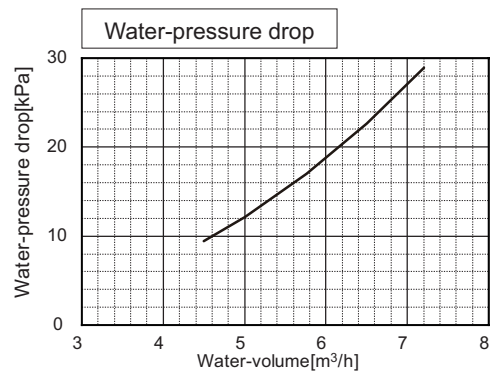
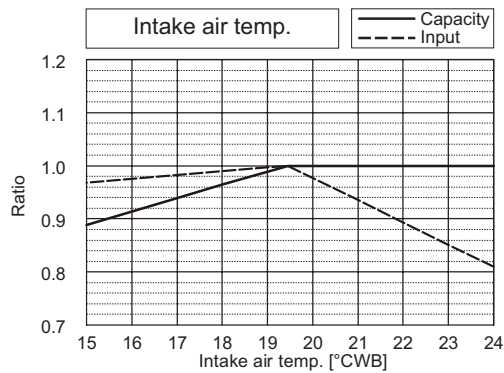
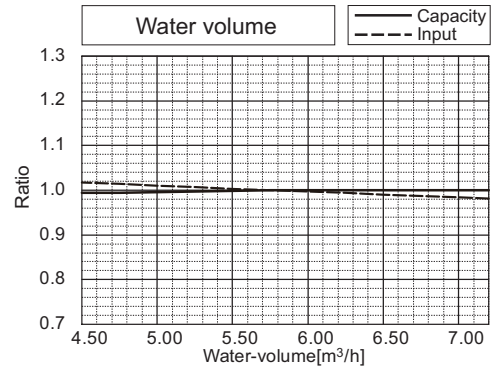
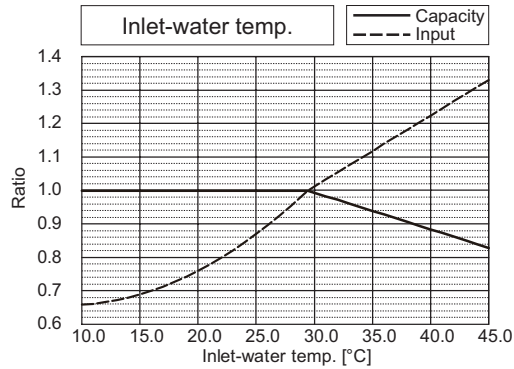


PQHY-		P120THMU	P120YHMu
Nominal Heating Capacity	kW	39.6	39.6
	BTU/h	135,000	135,000
Input		kW	7.62

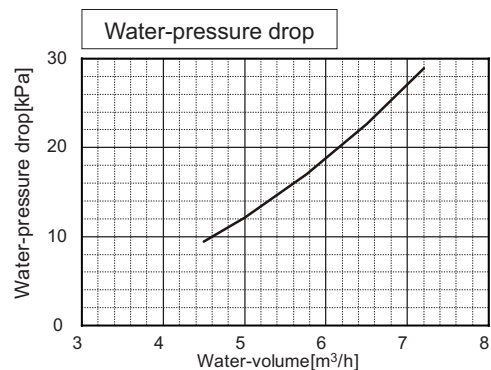
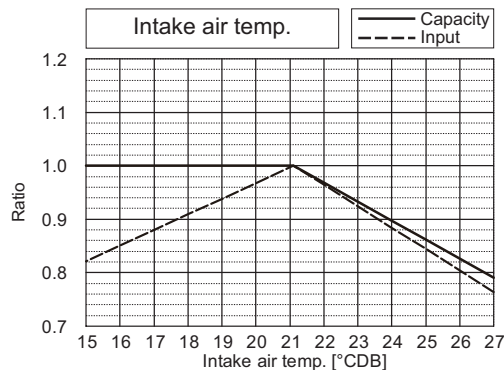
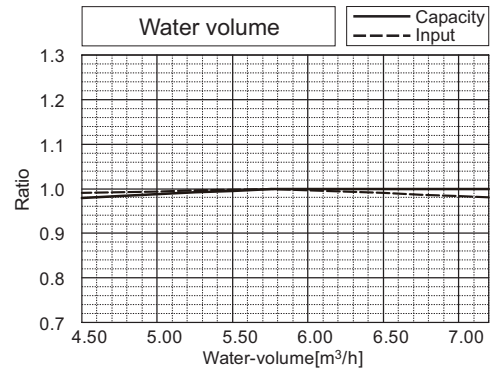
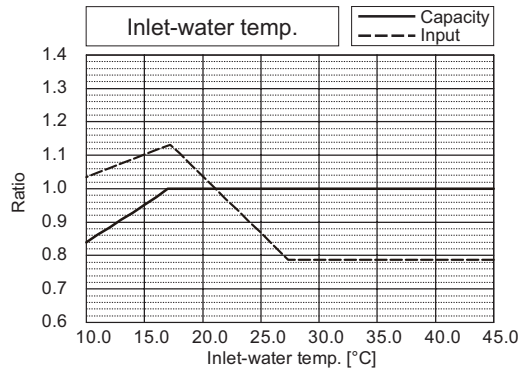


7. CAPACITY TABLES

PQHY-		P144TSHMU	P144YSHMU
Nominal Cooling Capacity	kW	42.6	42.6
	BTU/h	145,400	145,400
Input	kW	7.94	7.94

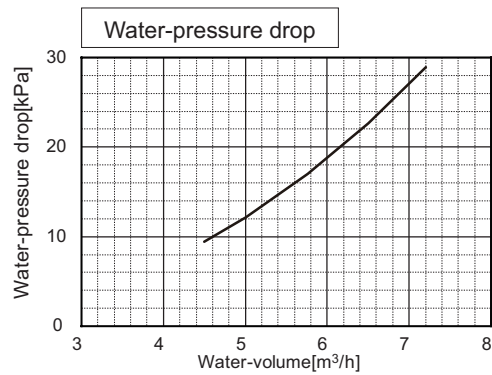
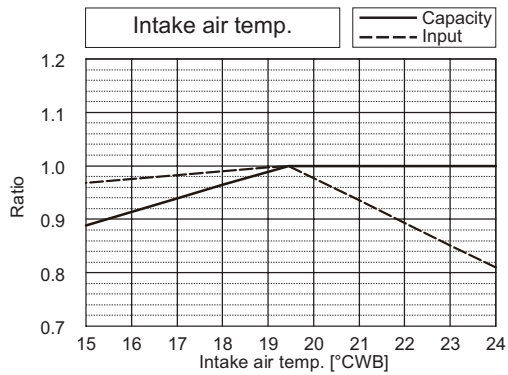
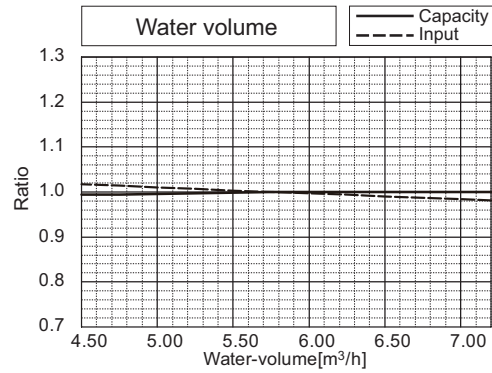
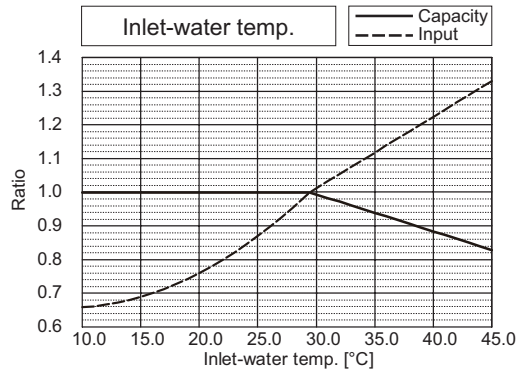


PQHY-		P144TSHMU	P144YSHMU
Nominal Heating Capacity	kW	46.9	46.9
	BTU/h	160,000	160,000
Input	kW	7.89	7.89

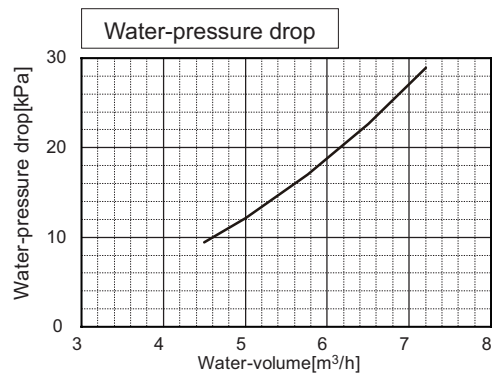
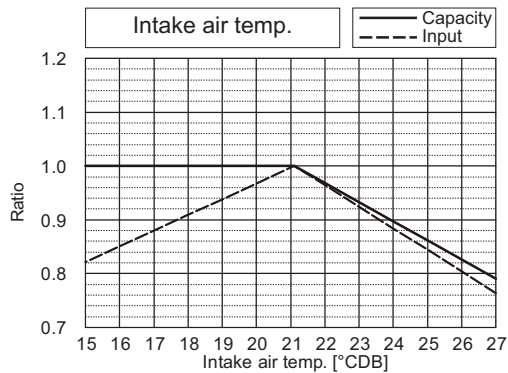
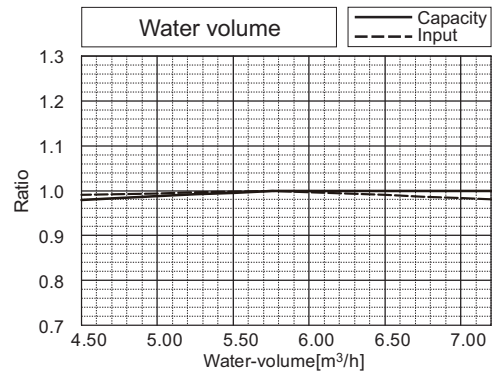
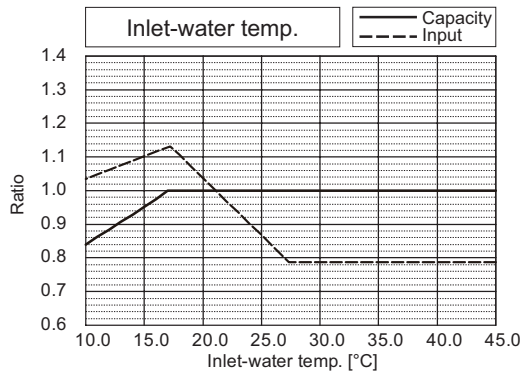


7. CAPACITY TABLES

PQHY-		P168TSHMU	P168YSHMU
Nominal Cooling Capacity	kW	49.6	49.6
	BTU/h	169,100	169,100
Input	kW	9.73	9.73

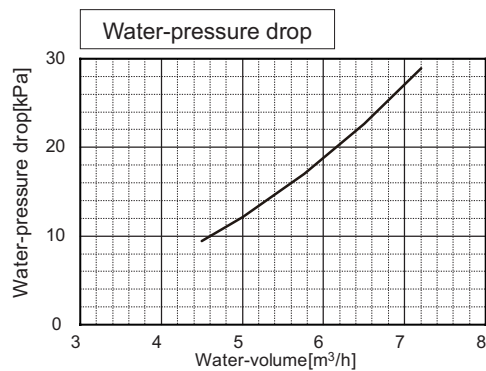
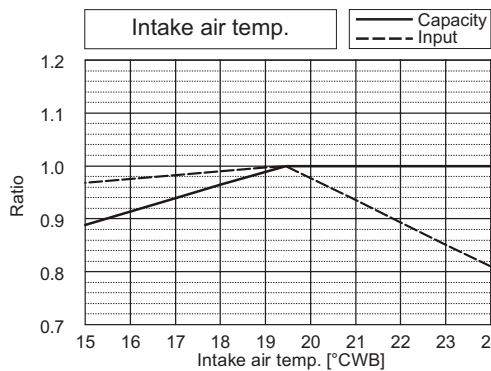
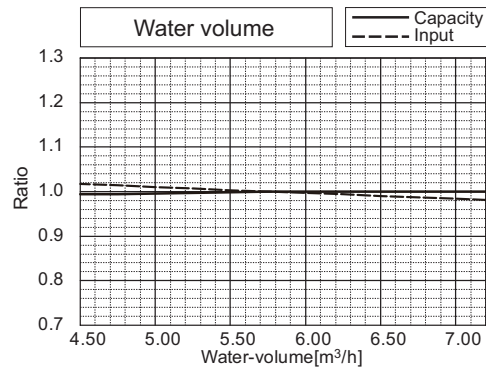
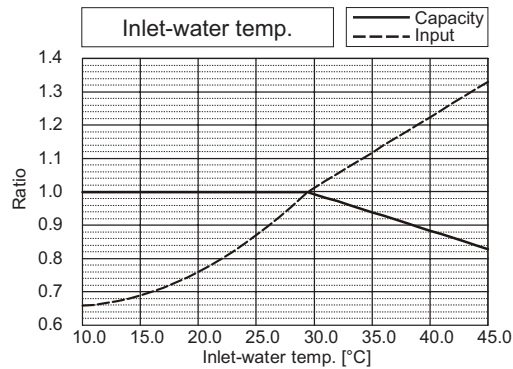


PQHY-		P168TSHMU	P168YSHMU
Nominal Heating Capacity	kW	55.1	55.1
	BTU/h	188,000	188,000
Input	kW	10.32	10.32

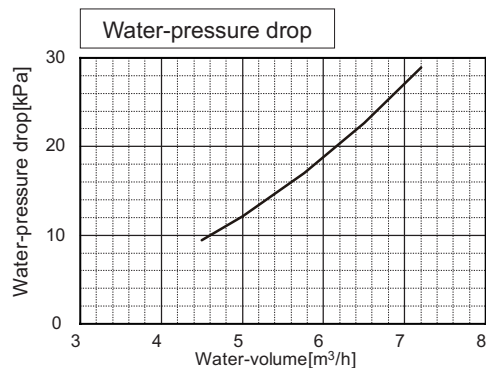
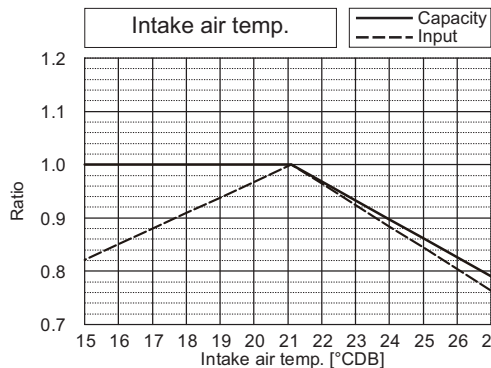
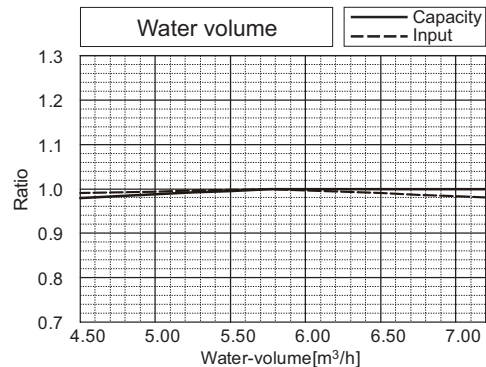
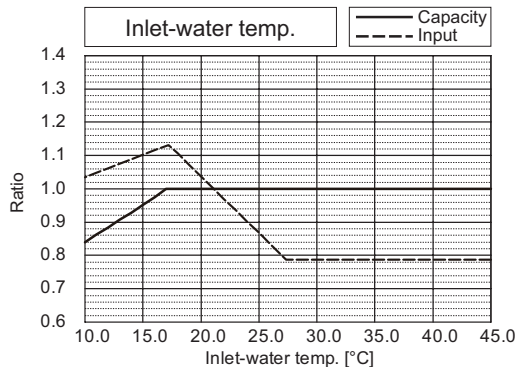


7. CAPACITY TABLES

	PQHY-	P192TSHMU	P192YSHMU
Nominal Cooling Capacity	kW	56.4	56.4
	BTU/h	192,600	192,600
Input	kW	11.55	11.55

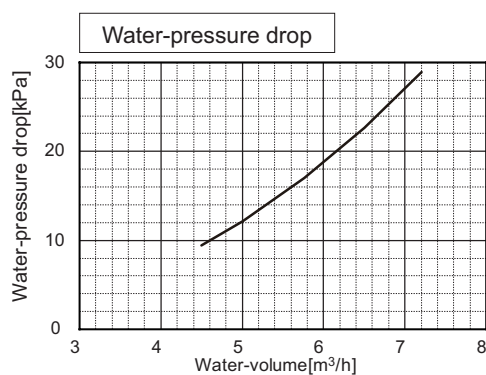
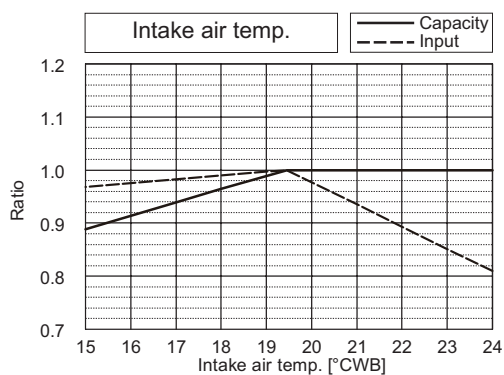
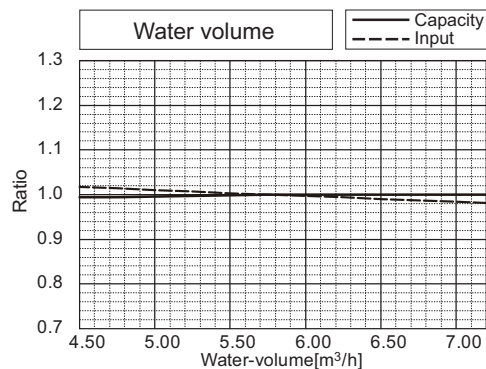
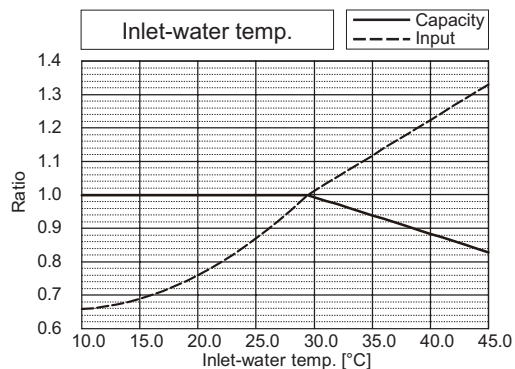


	PQHY-	P192TSHMU	P192YSHMU
Nominal Heating Capacity	kW	63.3	63.3
	BTU/h	216,000	216,000
Input	kW	12.74	12.74

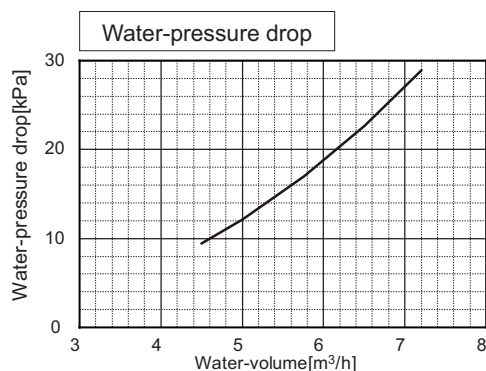
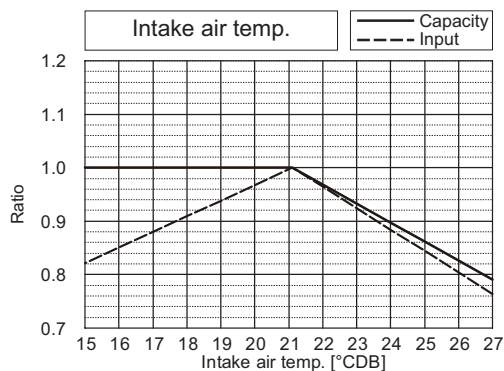
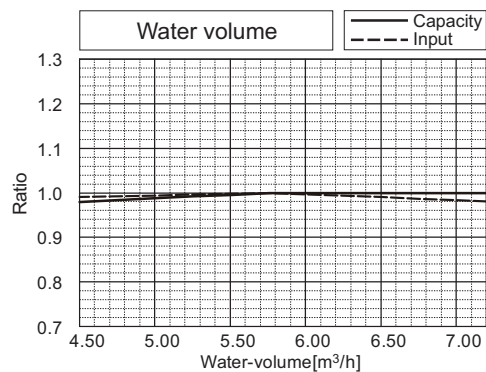
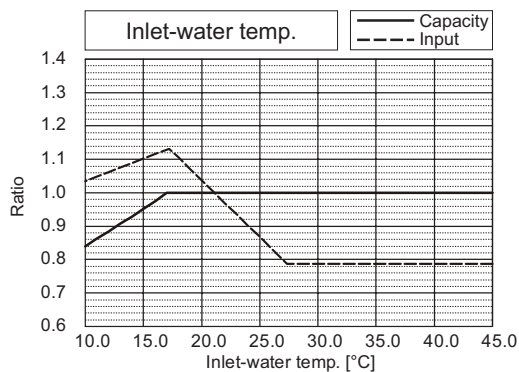


7. CAPACITY TABLES

PQHY-	P216TSHMU	P216YSHMU
Nominal Cooling Capacity		
kW	63.3	63.3
BTU/h	216,000	216,000
Input		
kW	13.50	13.50

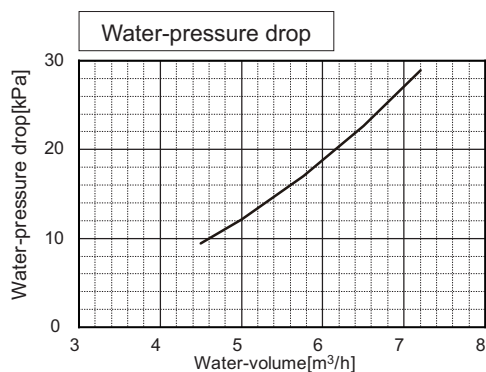
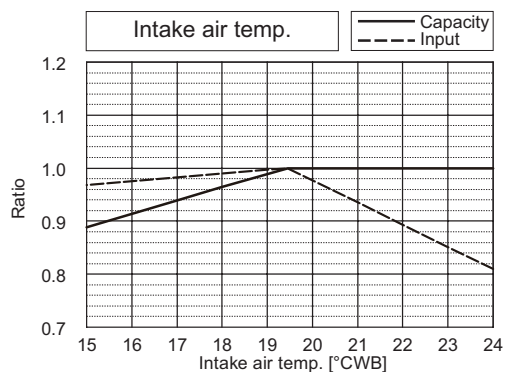
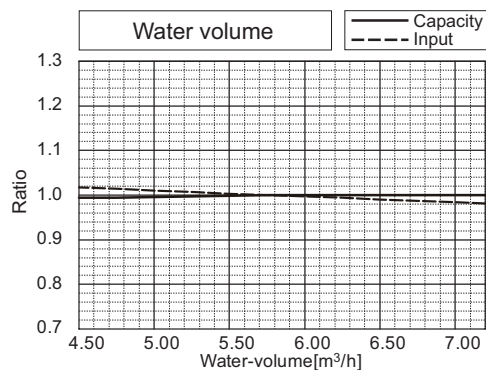
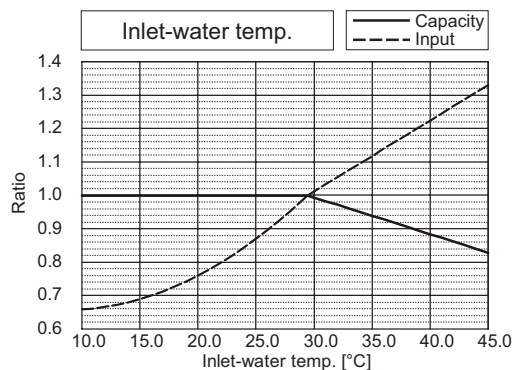


PQHY-	P216TSHMU	P216YSHMU
Nominal Heating Capacity		
kW	71.2	71.2
BTU/h	243,000	243,000
Input		
kW	14.22	14.22

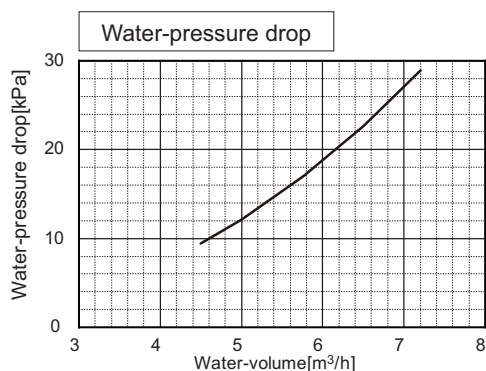
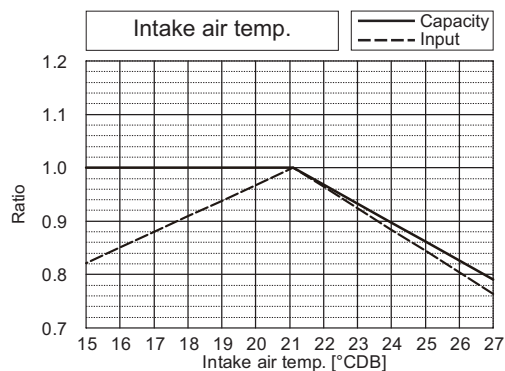
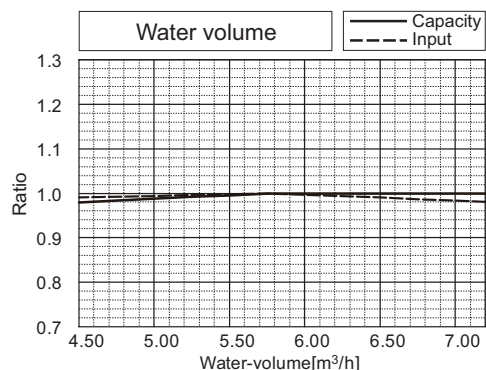
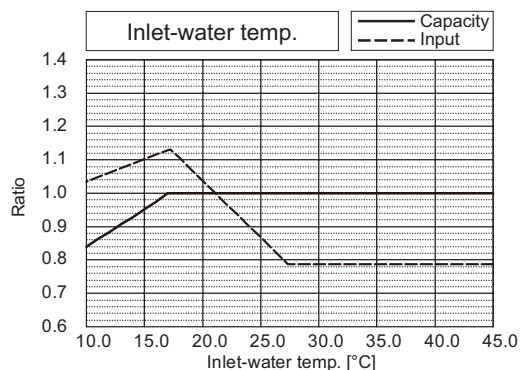


7. CAPACITY TABLES

PQHY-		P240TSHMU	P240YSHMU
Nominal Cooling Capacity	kW	70.3	70.3
	BTU/h	240,000	240,000
Input	kW	15.47	15.47

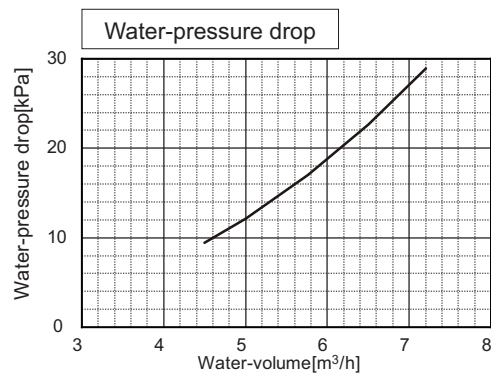
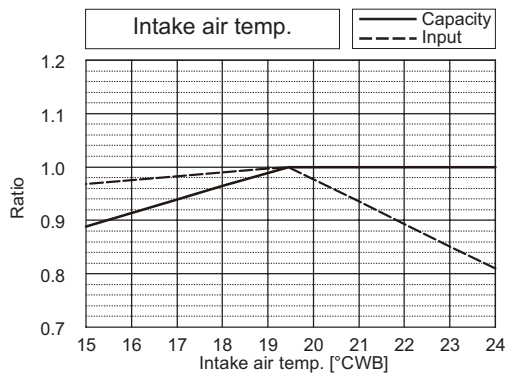
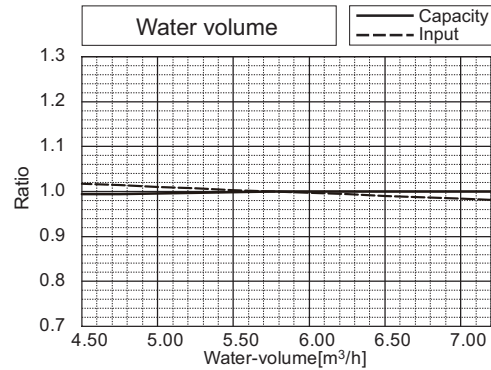
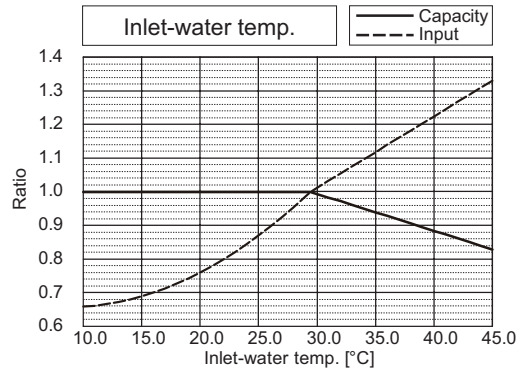


PQHY-		P240TSHMU	P240YSHMU
Nominal Heating Capacity	kW	79.1	79.1
	BTU/h	270,000	270,000
Input	kW	15.70	15.70

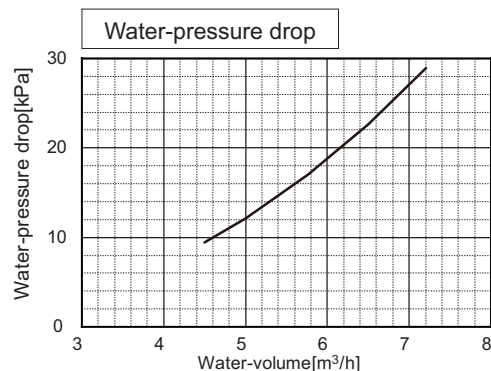
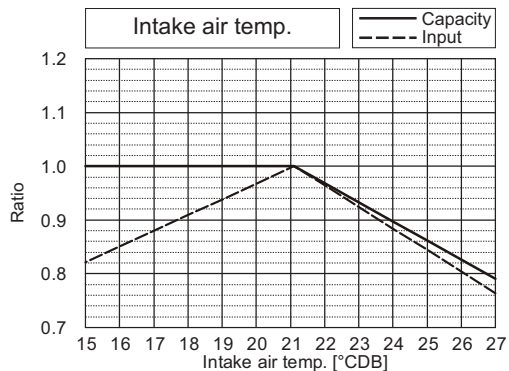
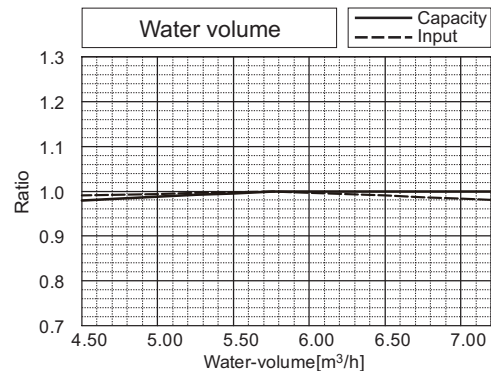
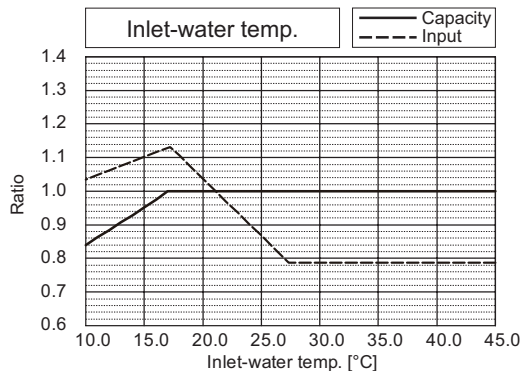


7. CAPACITY TABLES

PQHY-		P264TSHMU	P264YSHMU
Nominal Cooling Capacity	kW	77.8	77.8
	BTU/h	265,400	265,400
Input	kW	15.49	15.49

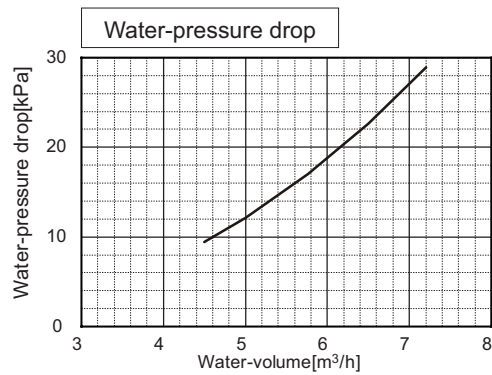
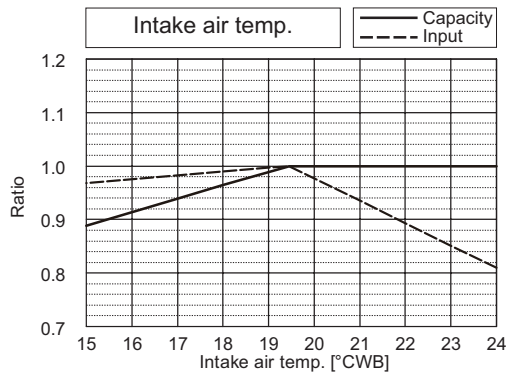
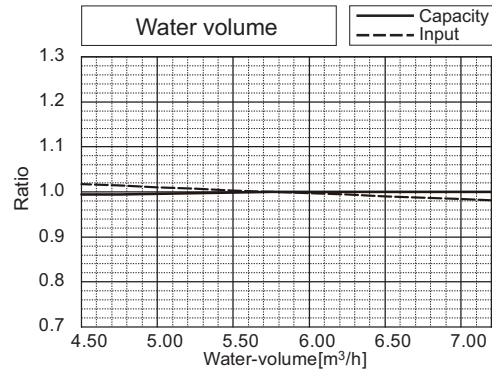
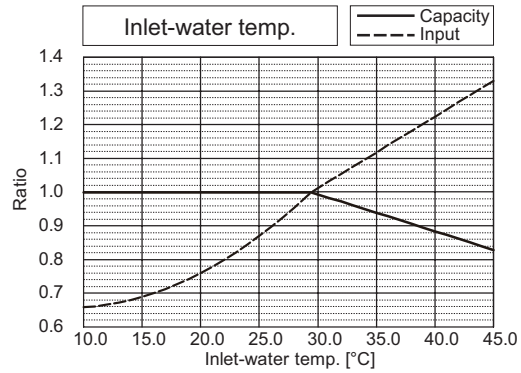


PQHY-		P264TSHMU	P264YSHMU
Nominal Heating Capacity	kW	86.8	86.8
	BTU/h	296,000	296,000
Input	kW	16.68	16.68

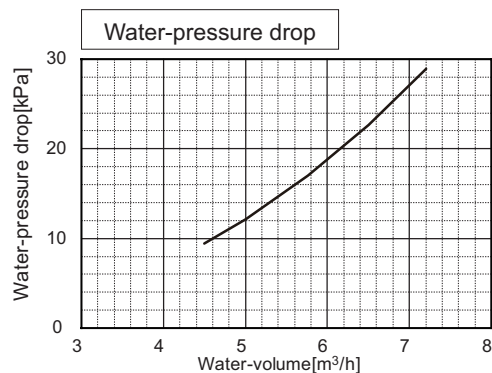
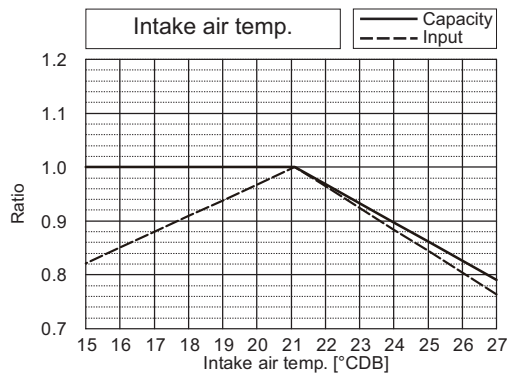
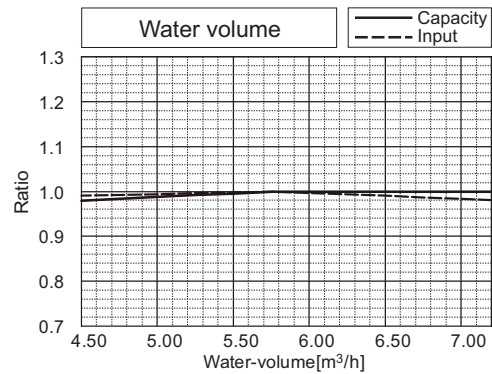
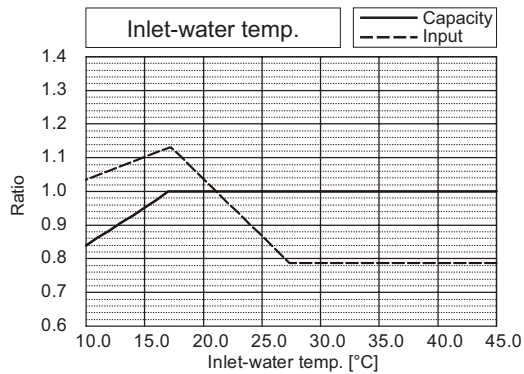


7. CAPACITY TABLES

	PQHY-	P288TSHMU	P288YSHMU
Nominal Cooling Capacity	kW	84.7	84.7
	BTU/h	288,900	288,900
Input	kW	17.32	17.32

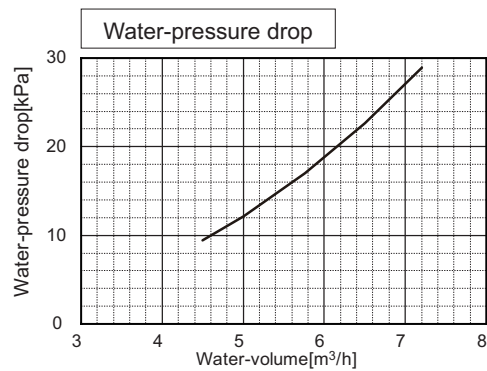
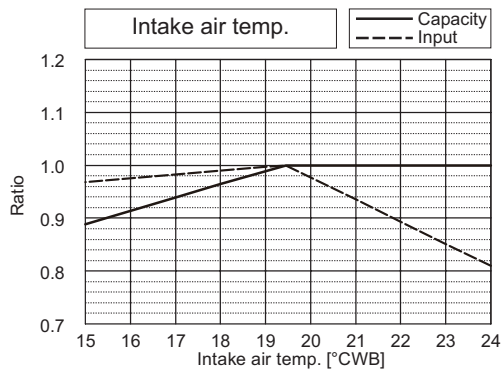
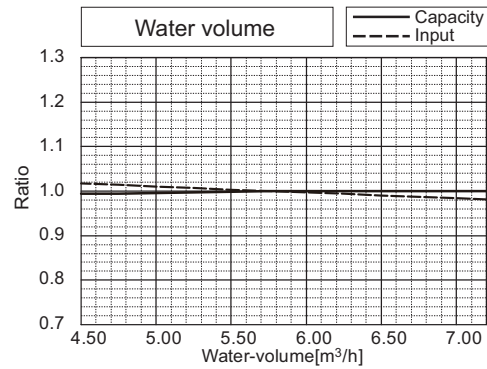
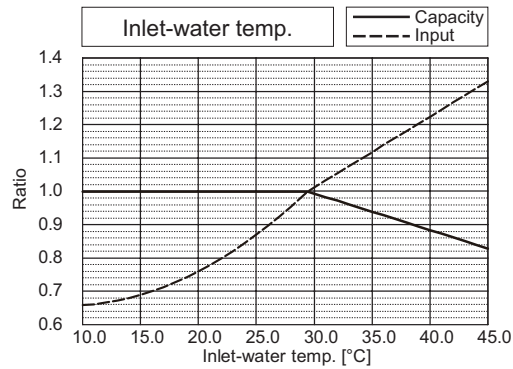


	PQHY-	P288TSHMU	P288YSHMU
Nominal Heating Capacity	kW	95.0	95.0
	BTU/h	324,000	324,000
Input	kW	19.10	19.10

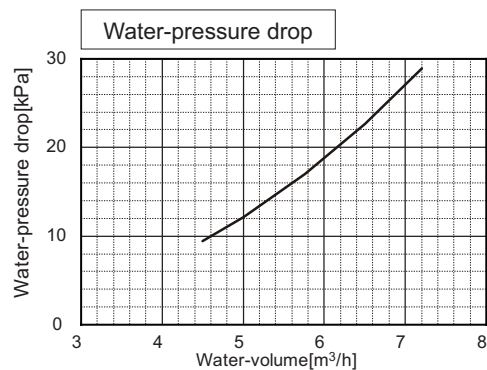
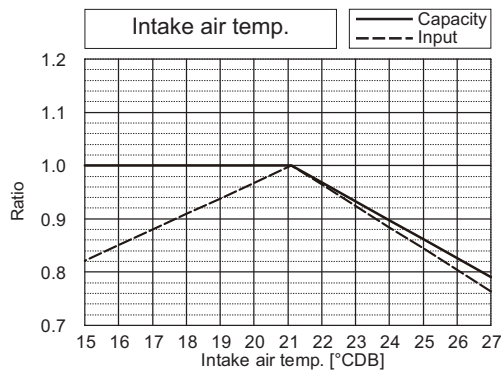
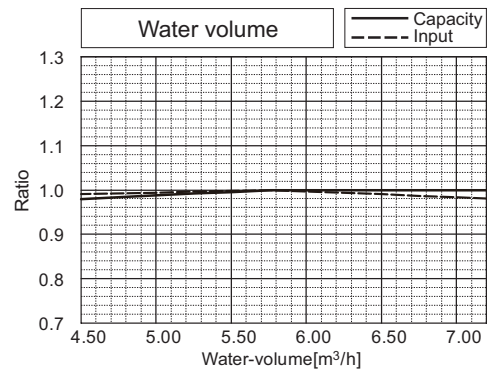
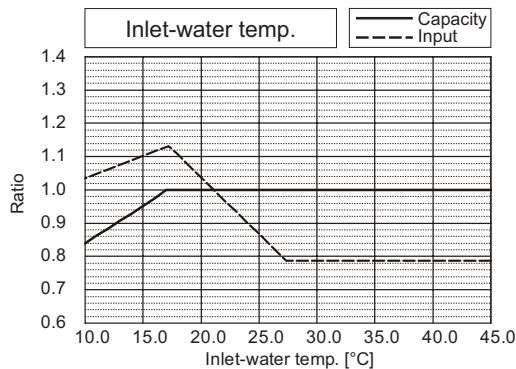


7. CAPACITY TABLES

PQHY-		P312TSHMU	P312YSHMU
Nominal Cooling Capacity	kW	91.5	91.5
	BTU/h	312,200	312,200
Input	kW	19.27	19.27

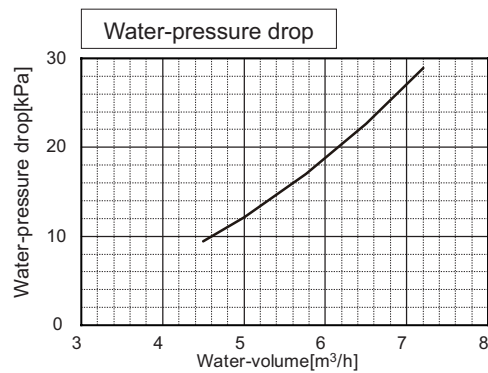
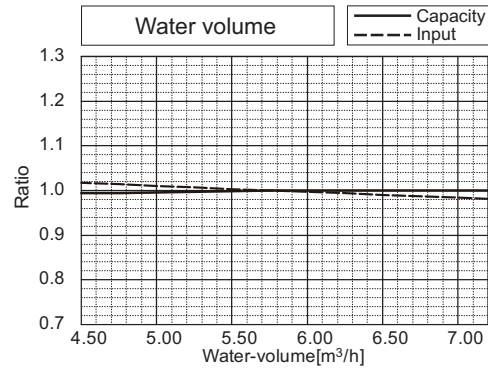
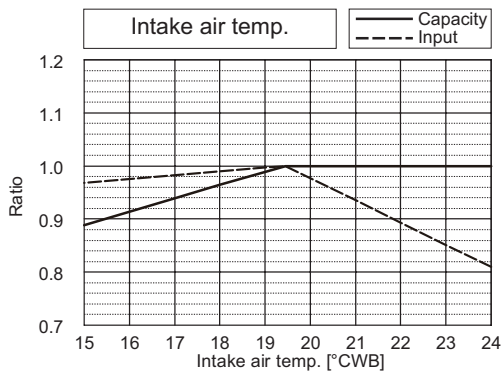
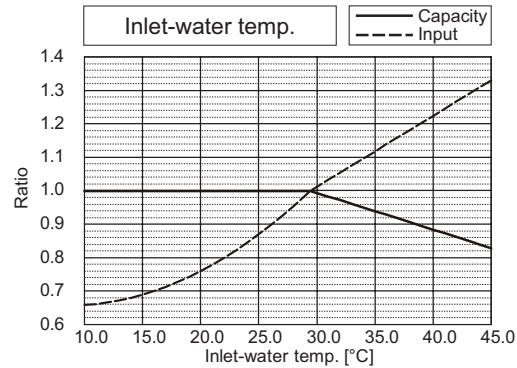


PQHY-		P312TSHMU	P312YSHMU
Nominal Heating Capacity	kW	102.9	102.9
	BTU/h	351,000	351,000
Input	kW	20.58	20.58

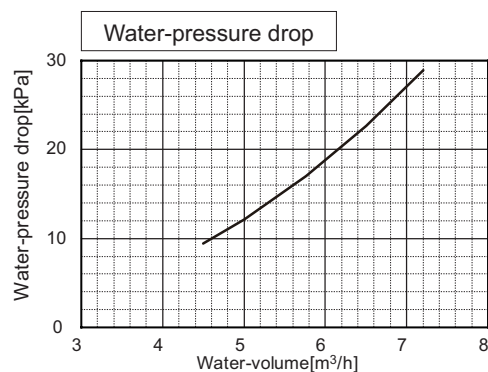
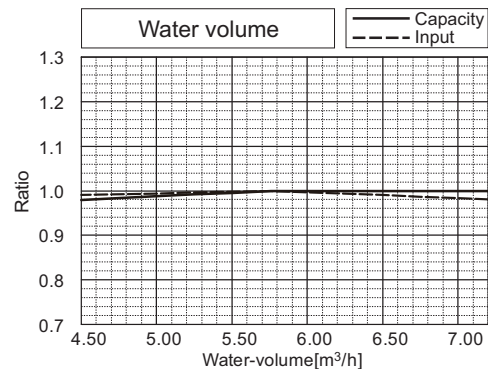
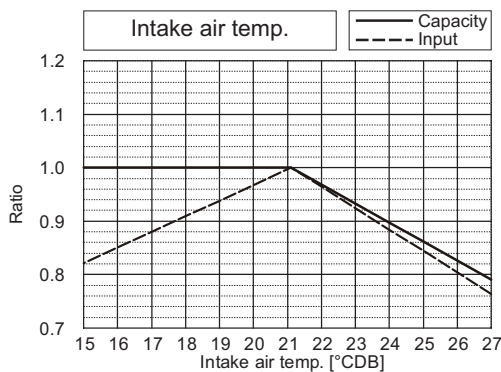
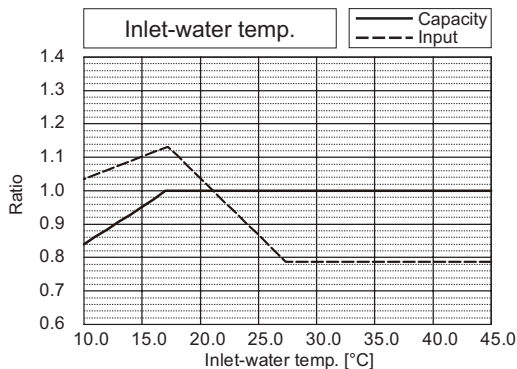


7. CAPACITY TABLES

PQHY-		P336TSHMU	P336YSHMU
Nominal Cooling Capacity	kW	98.5	98.5
	BTU/h	336,000	336,000
Input	kW	21.23	21.23

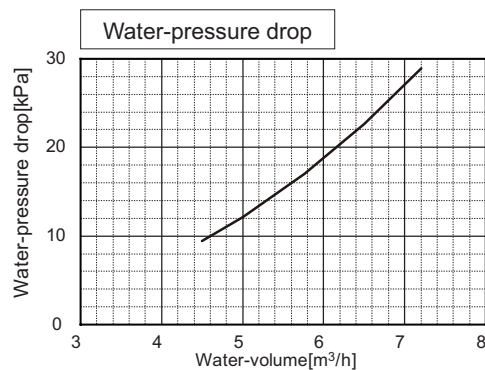
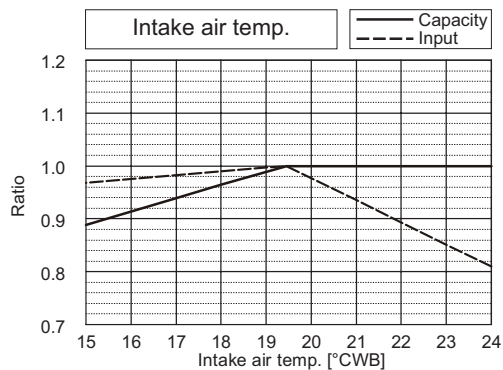
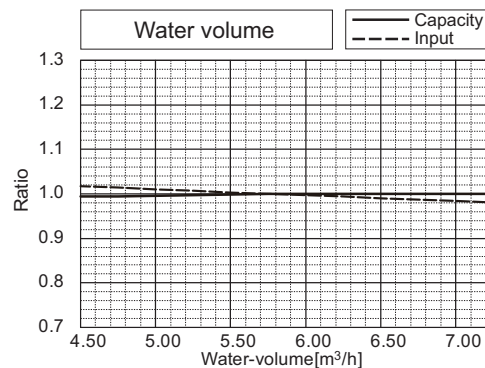
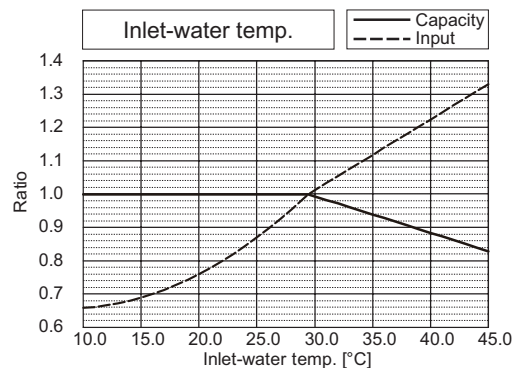


PQHY-		P336TSHMU	P336YSHMU
Nominal Heating Capacity	kW	110.8	110.8
	BTU/h	378,000	378,000
Input	kW	22.07	22.07

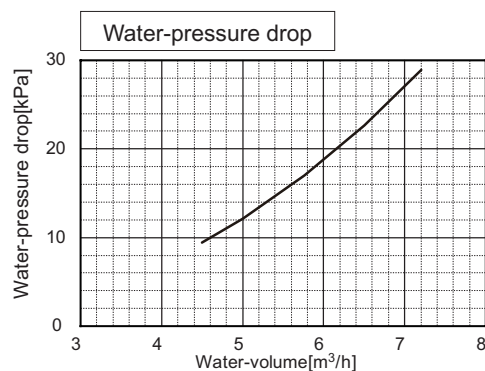
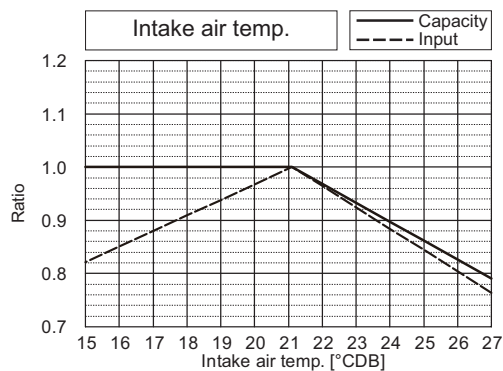
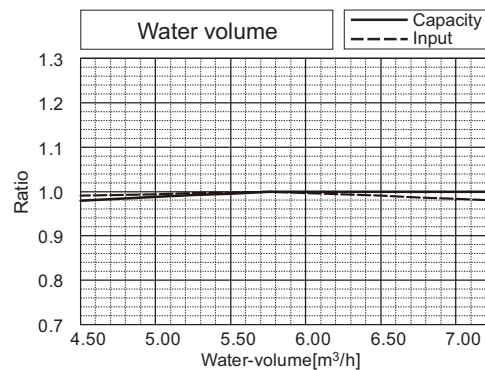
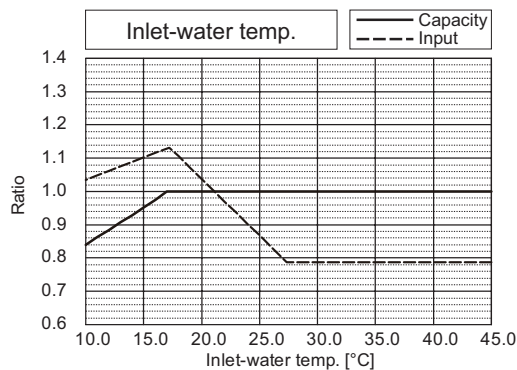


7. CAPACITY TABLES

PQHY-	P360TSHMU	P360YSHMU
Nominal Cooling Capacity	105.5	105.5
BTU/h	360,000	360,000
Input	23.21	23.21
kW		



PQHY-	P360TSHMU	P360YSHMU
Nominal Heating Capacity	118.7	118.7
BTU/h	405,000	405,000
Input	23.55	23.55
kW		

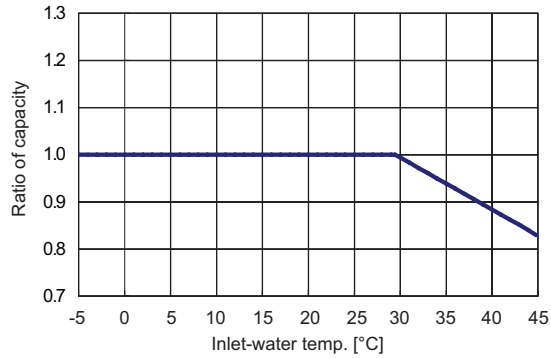


7. CAPACITY TABLES

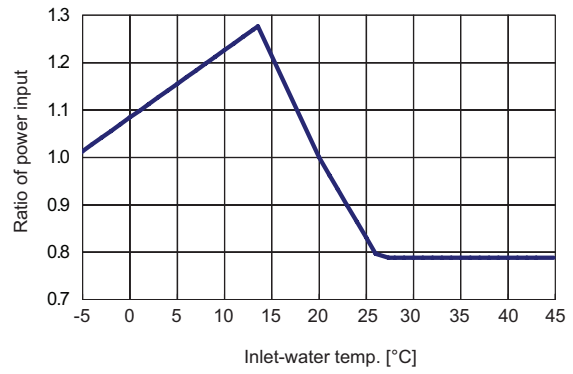
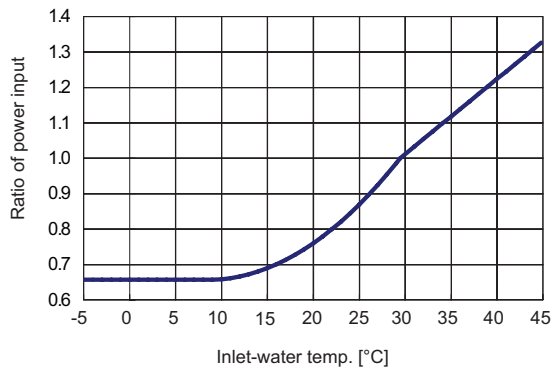
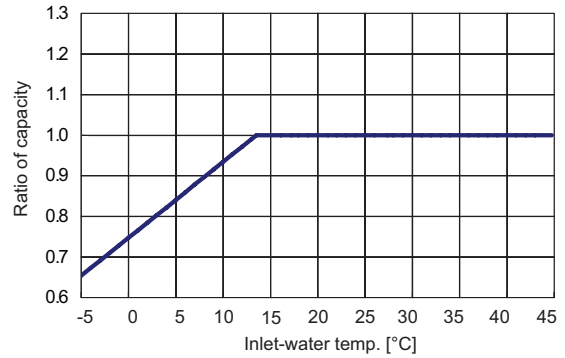
Water temperature correction factors (Geothermal)

PQHY-P72~360T(S)HMU-A/Y(S)HMU-A

① Cooling Inlet-water temp.



② Heating Inlet-water temp.

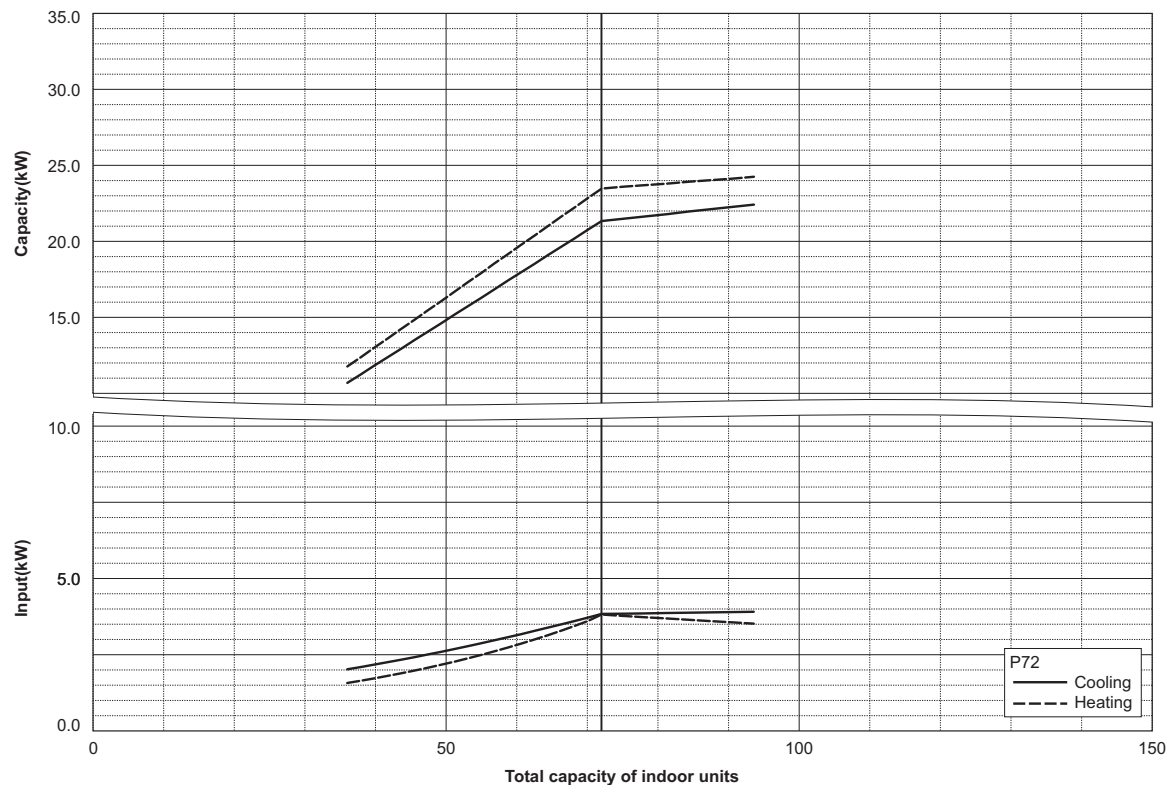


7. CAPACITY TABLES

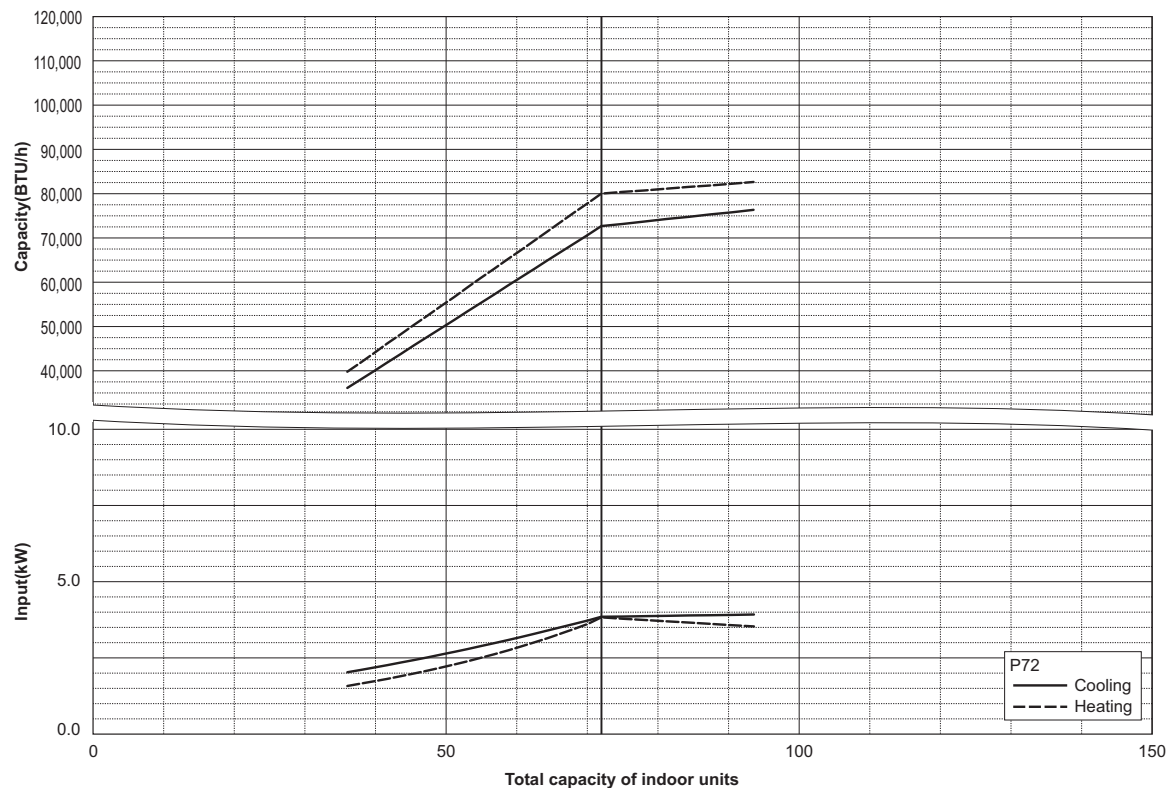
7-2. Correction by Total Indoor

CITY MULTI systems have different capacities and inputs when different combinations of indoor units with different total capacities are connected. Using the following tables, the maximum capacity can be found to ensure the system is installed with enough capacity for a particular application.

PQHY-P72THMU/YHMU

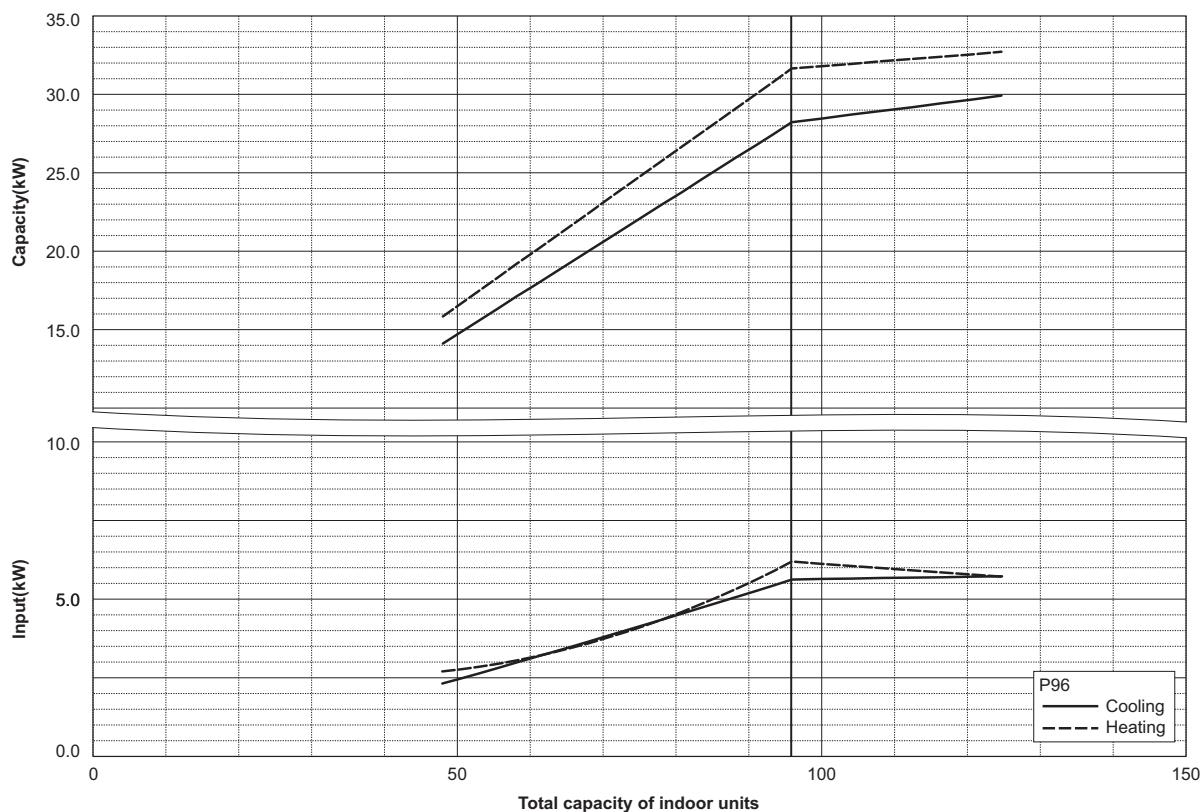


PQHY-P72THMU/YHMU

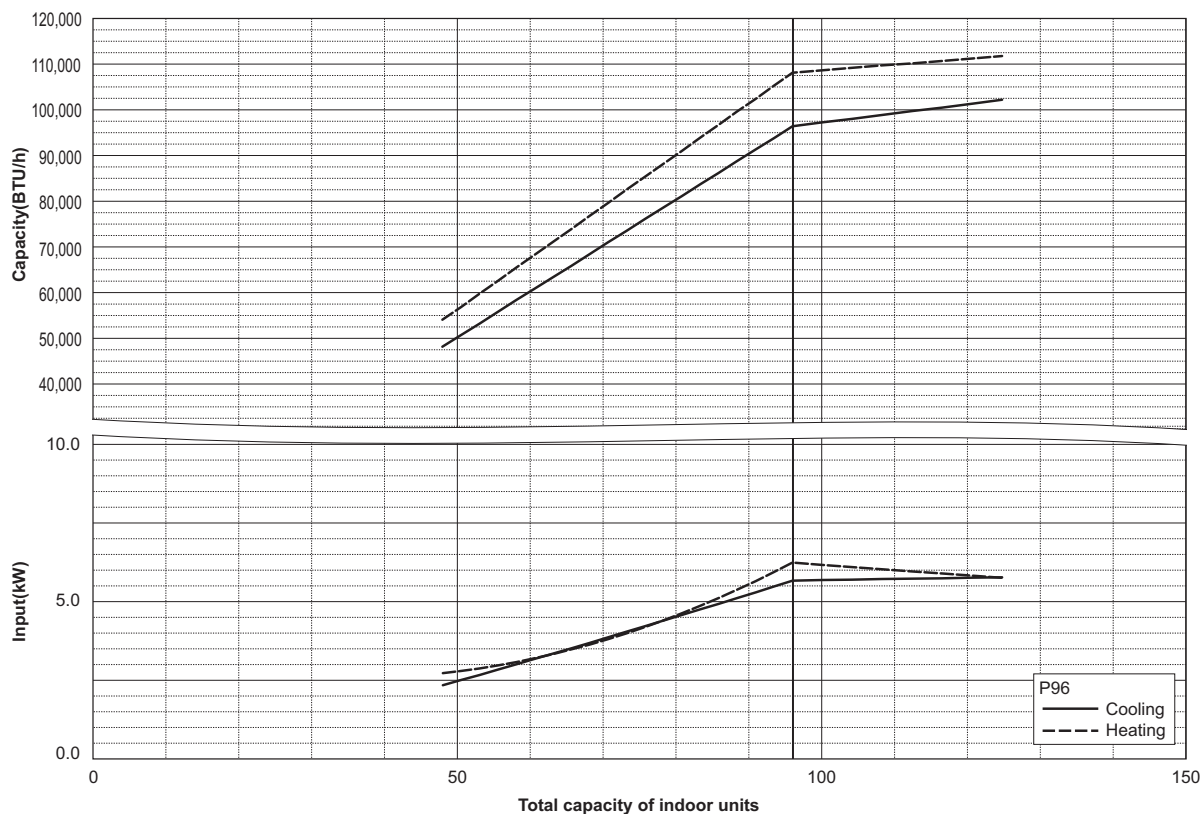


7. CAPACITY TABLES

PQHY-P96THMU/YHMU

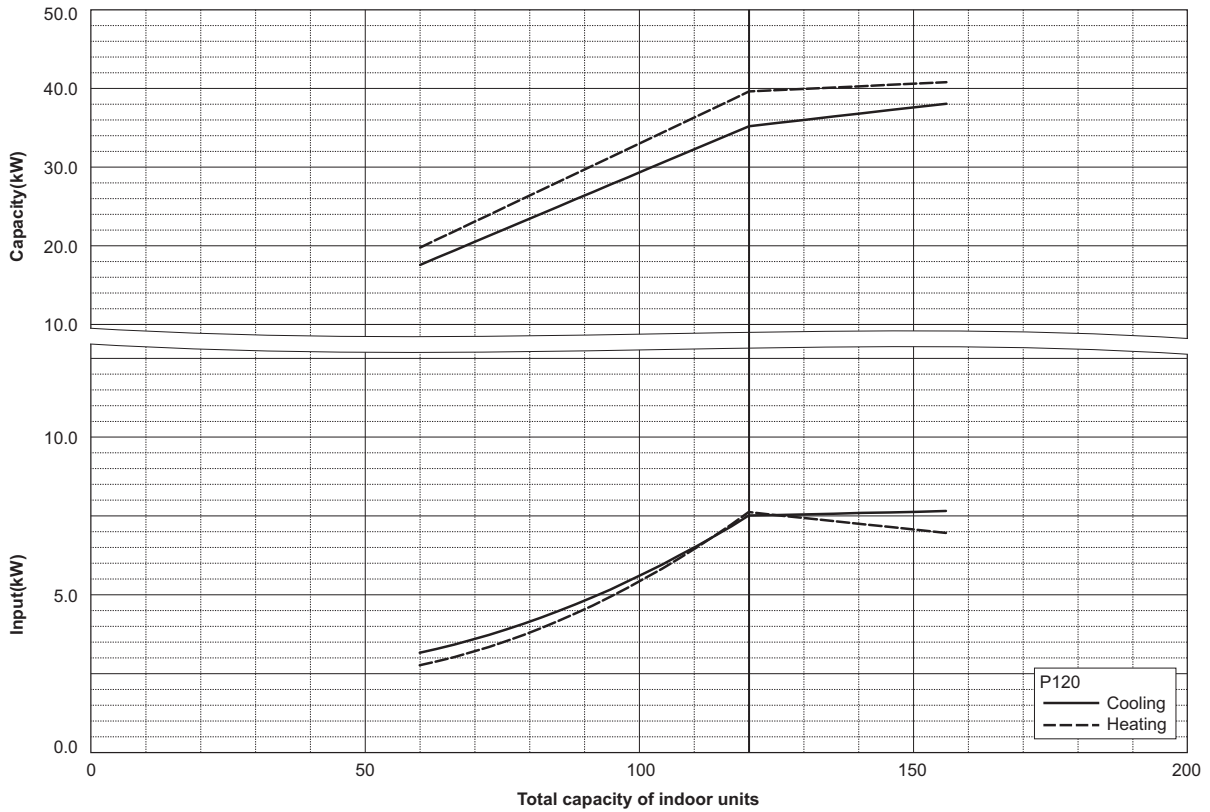


PQHY-P96THMU/YHMU

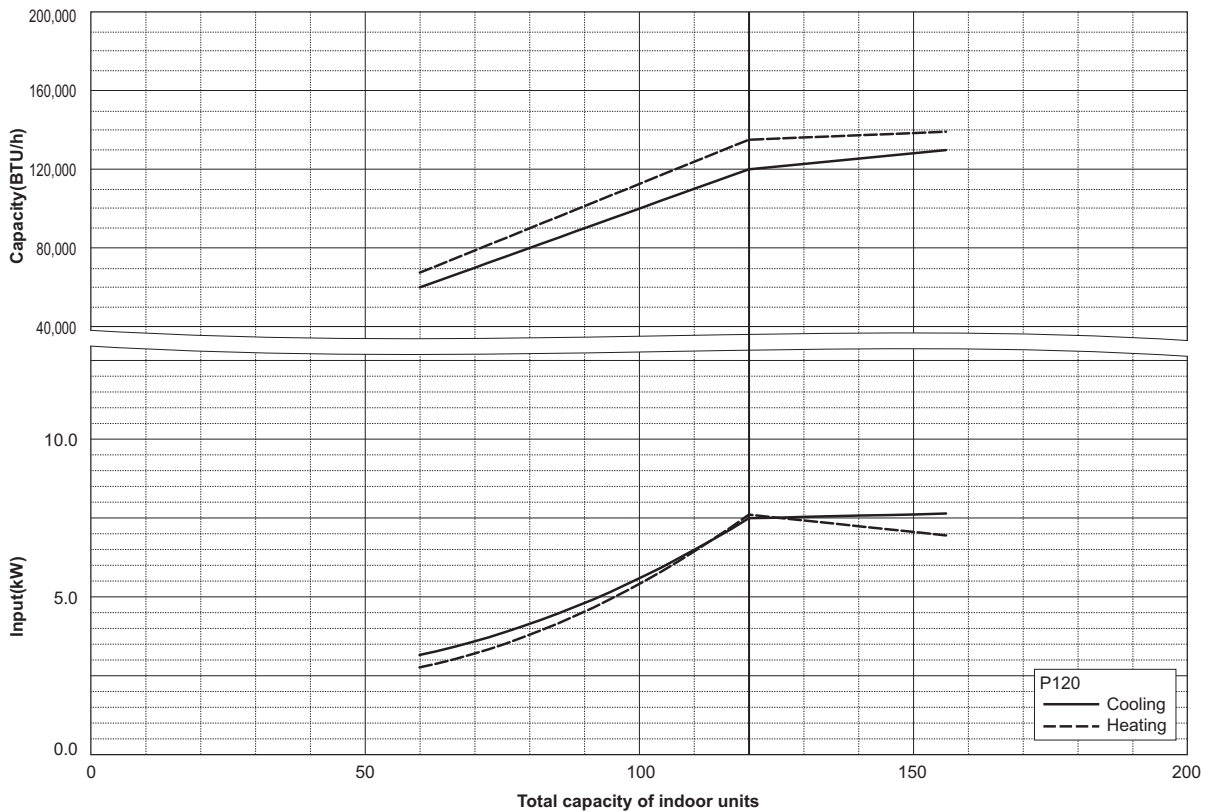


7. CAPACITY TABLES

PQHY-P120THMU/YHMU

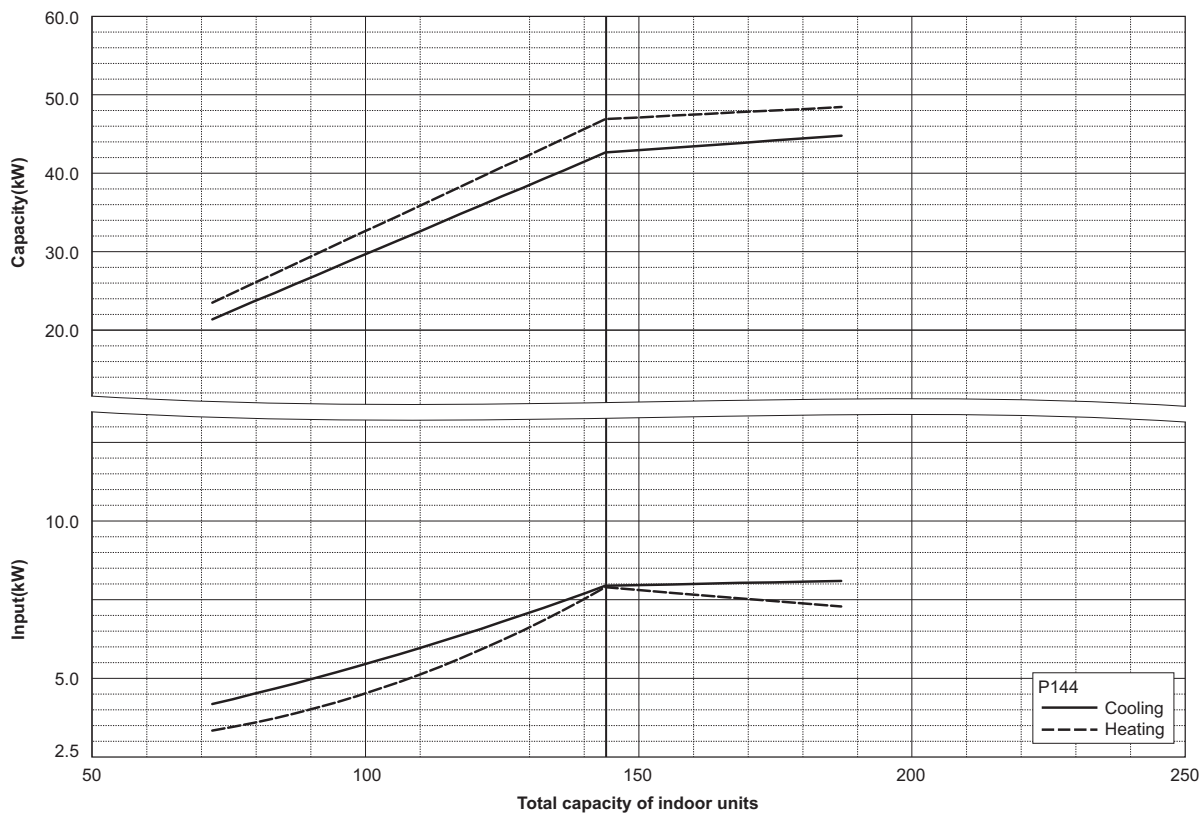


PQHY-P120THMU/YHMU

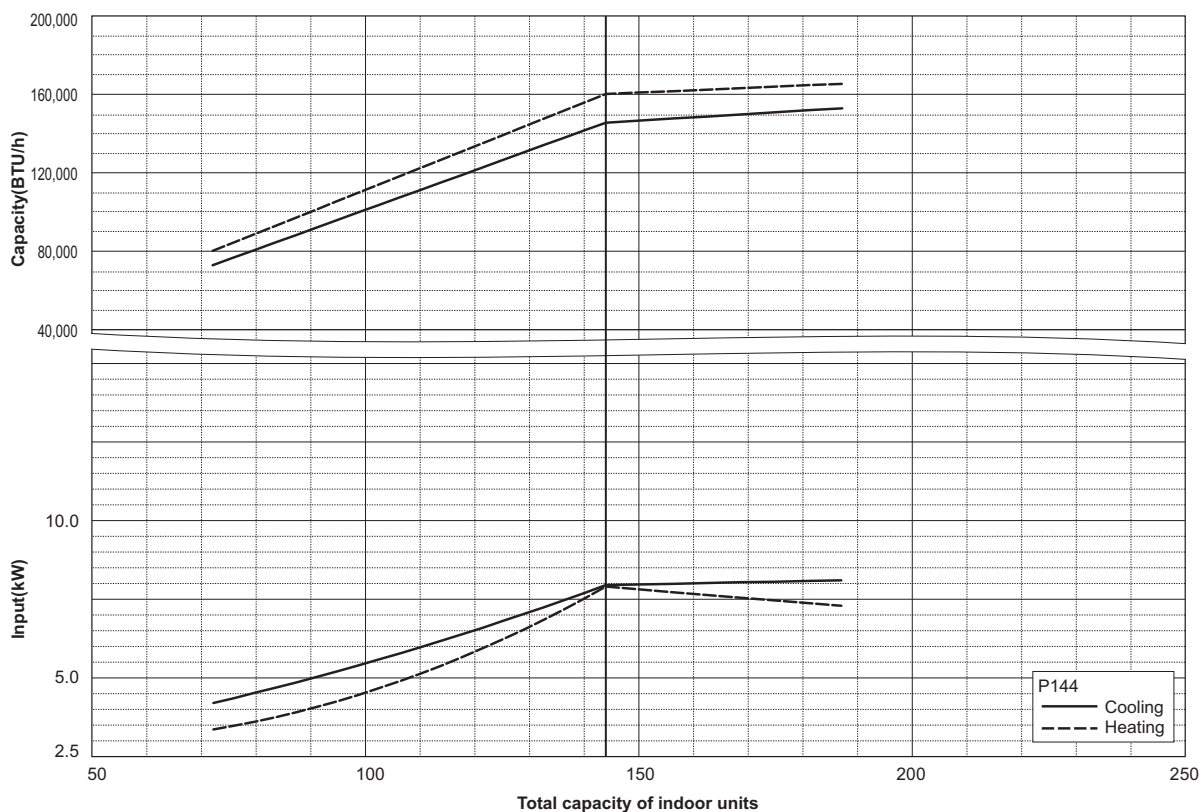


7. CAPACITY TABLES

PQHY-P144TSHMU/YSHMU

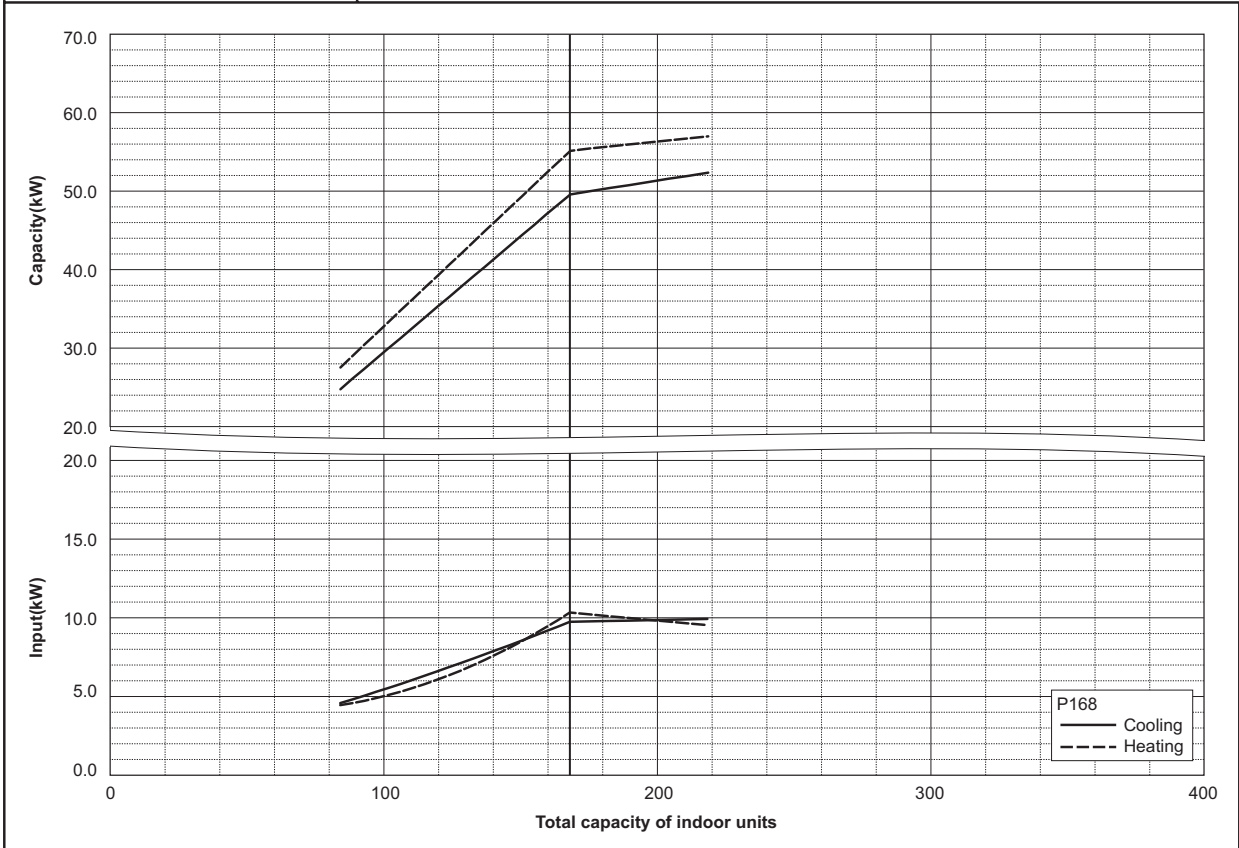


PQHY-P144TSHMU/YSHMU

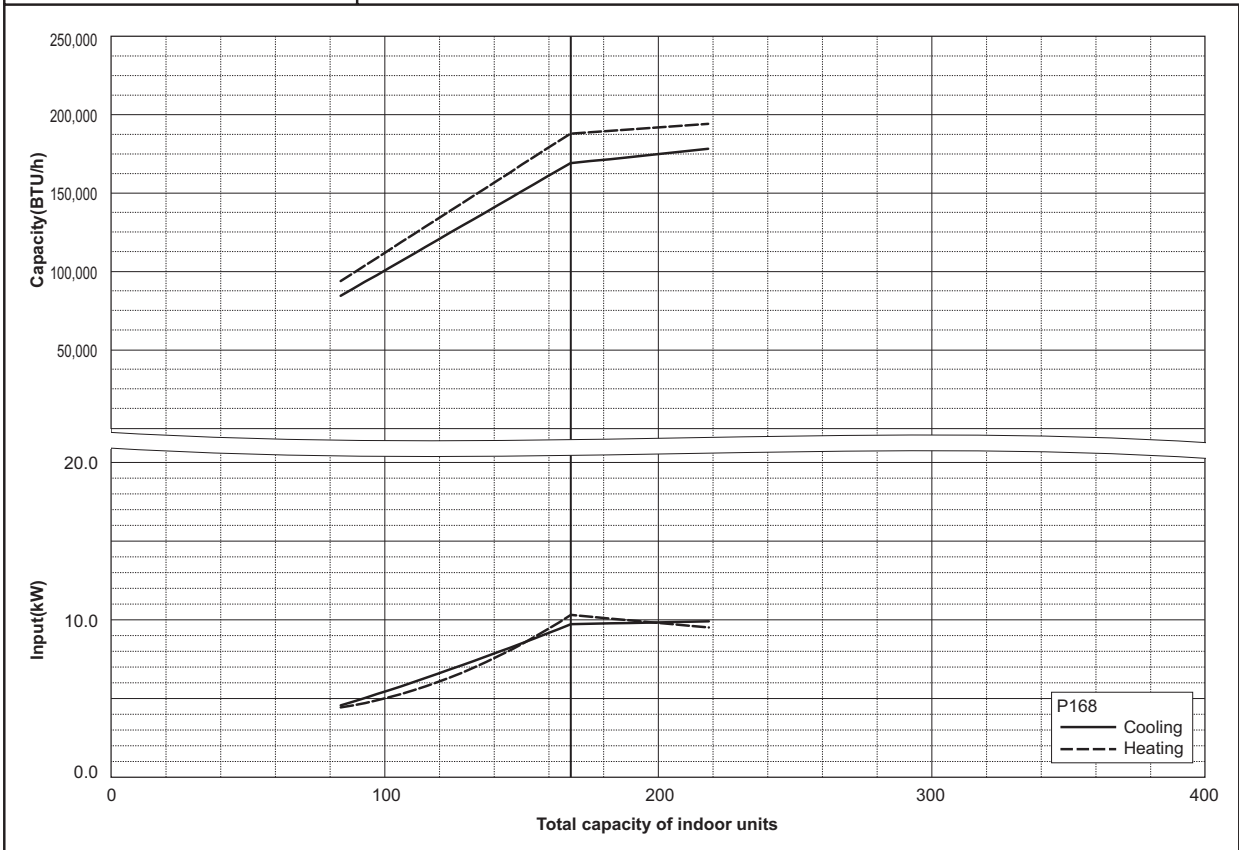


7. CAPACITY TABLES

PQHY-P168TSHMU/YSHMU

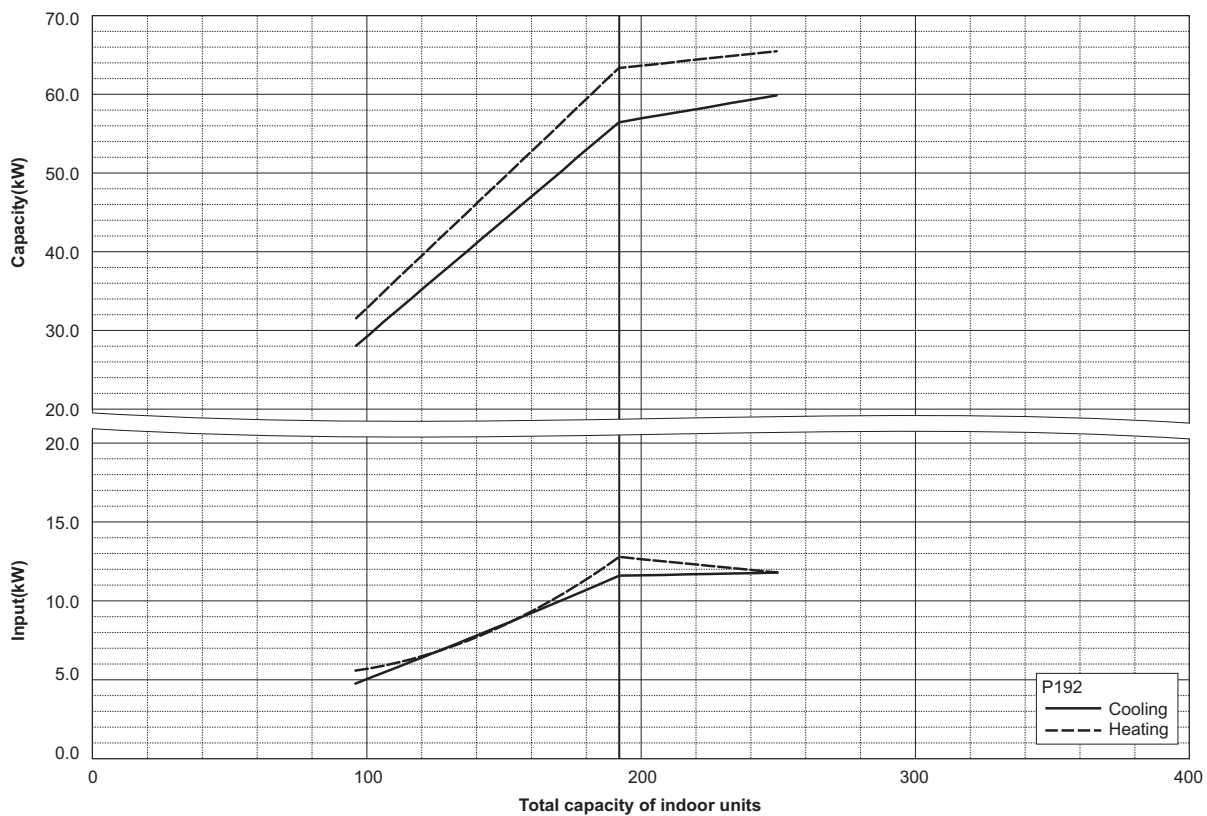


PQHY-P168TSHMU/YSHMU

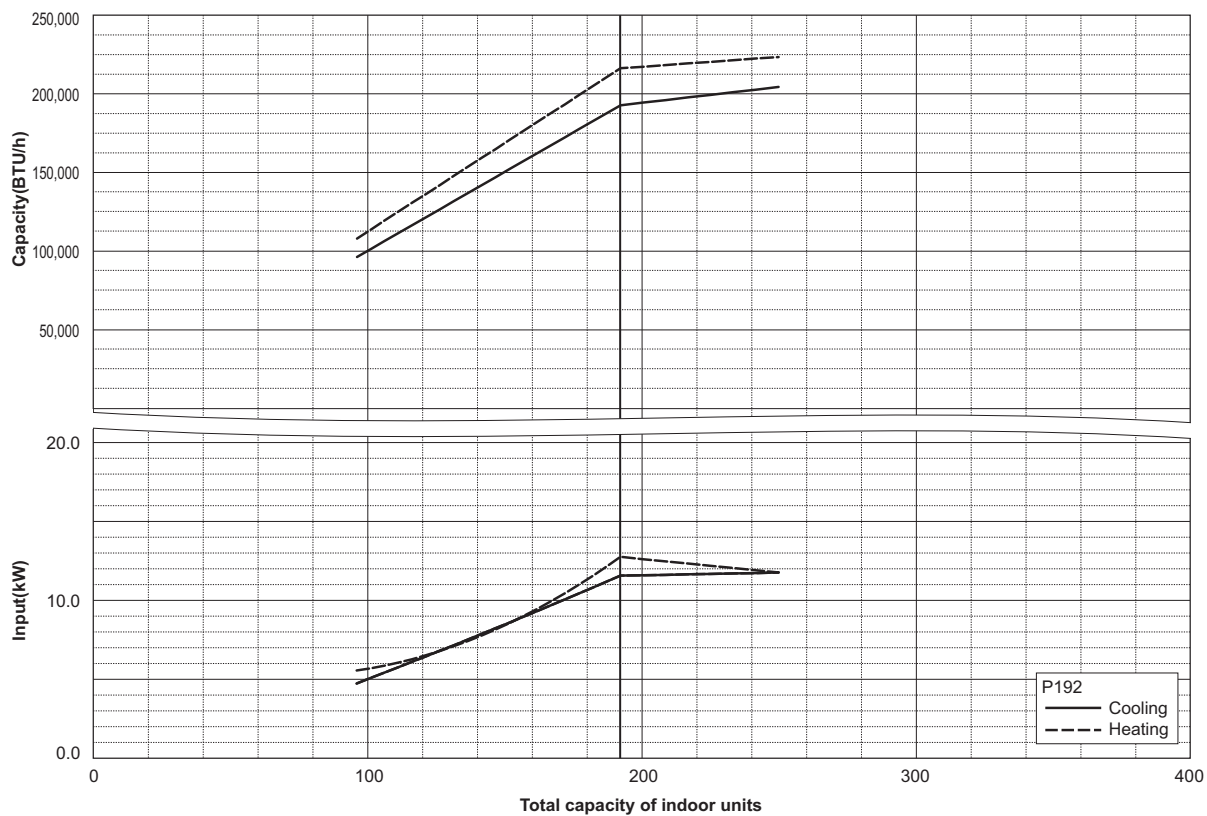


7. CAPACITY TABLES

PQHY-P192TSHMU/YSHMU

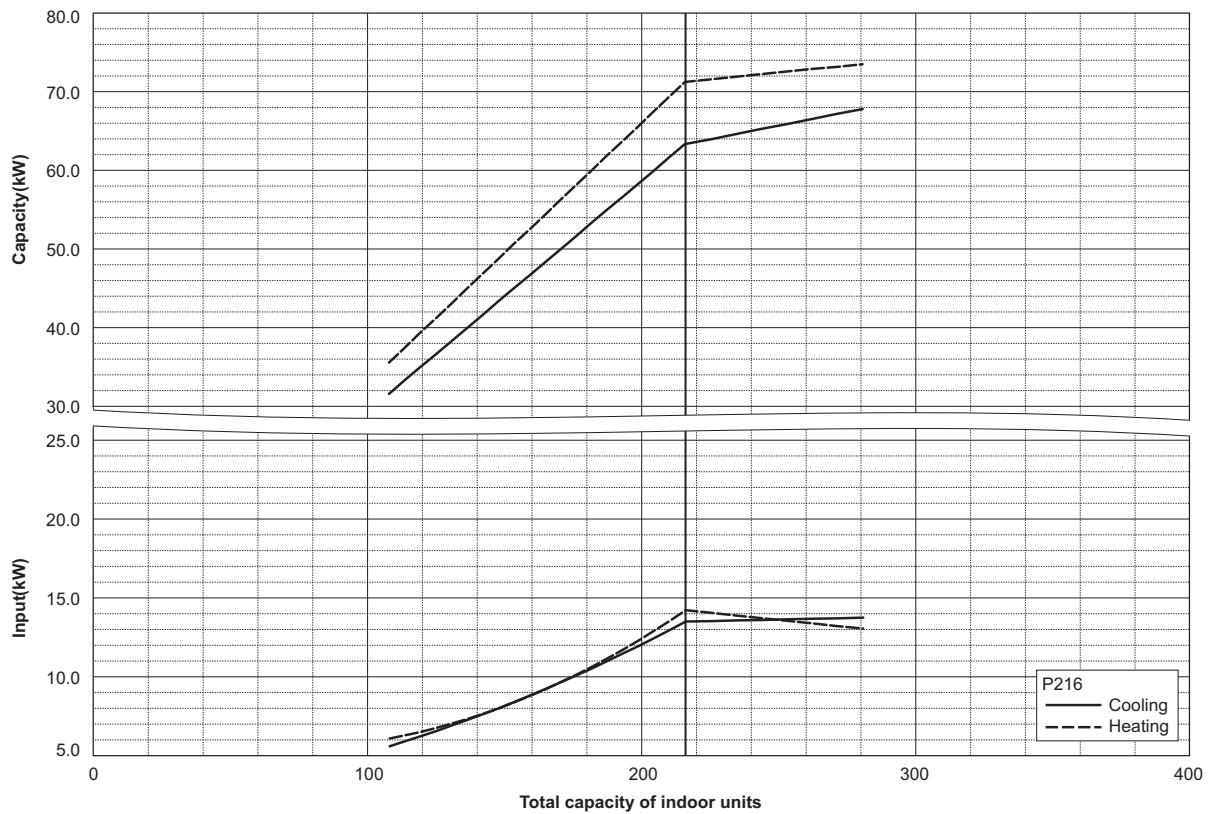


PQHY-P192TSHMU/YSHMU

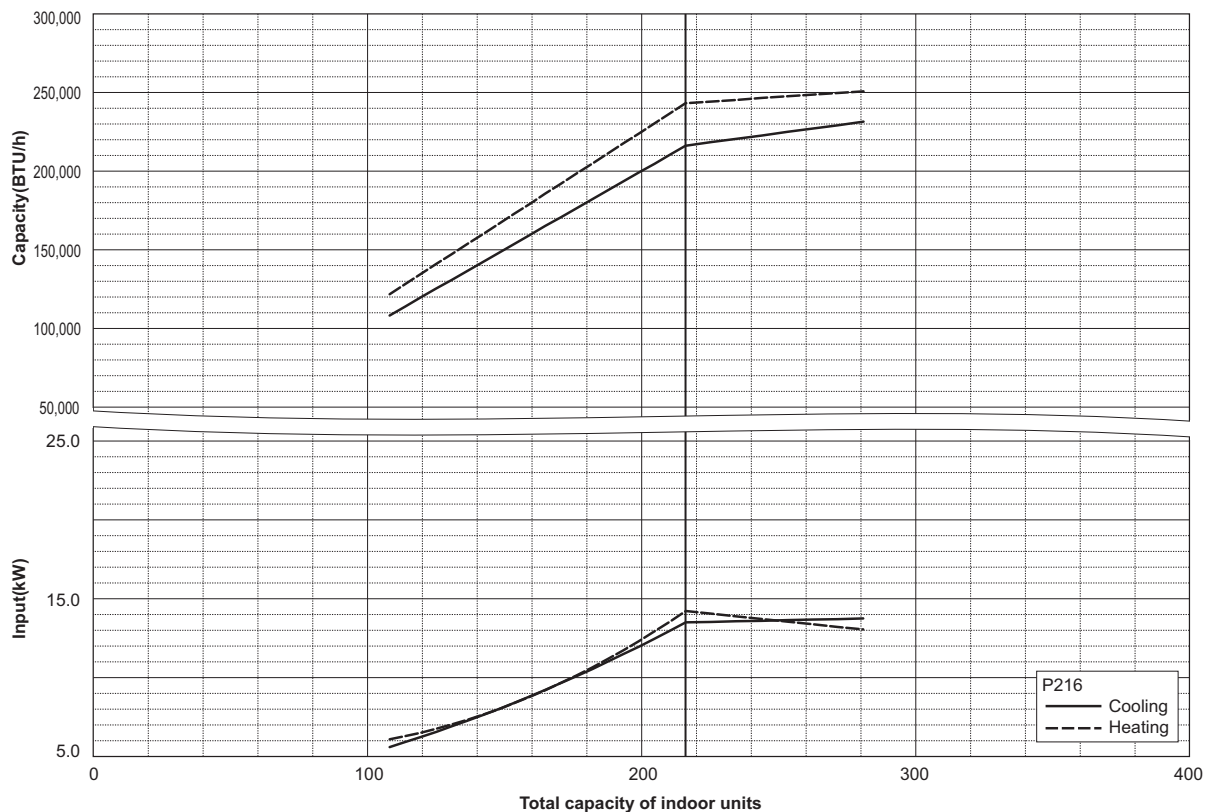


7. CAPACITY TABLES

PQHY-P216TSHMU/YSHMU

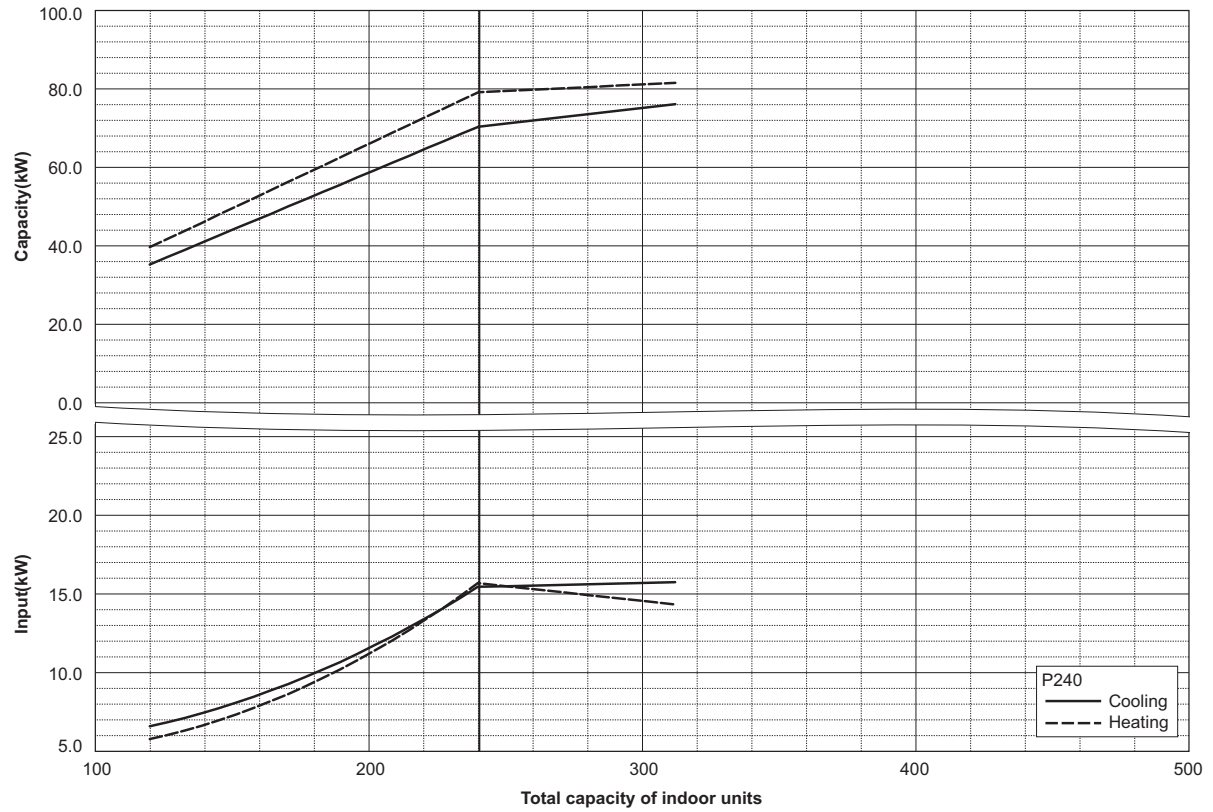


PQHY-P216TSHMU/YSHMU

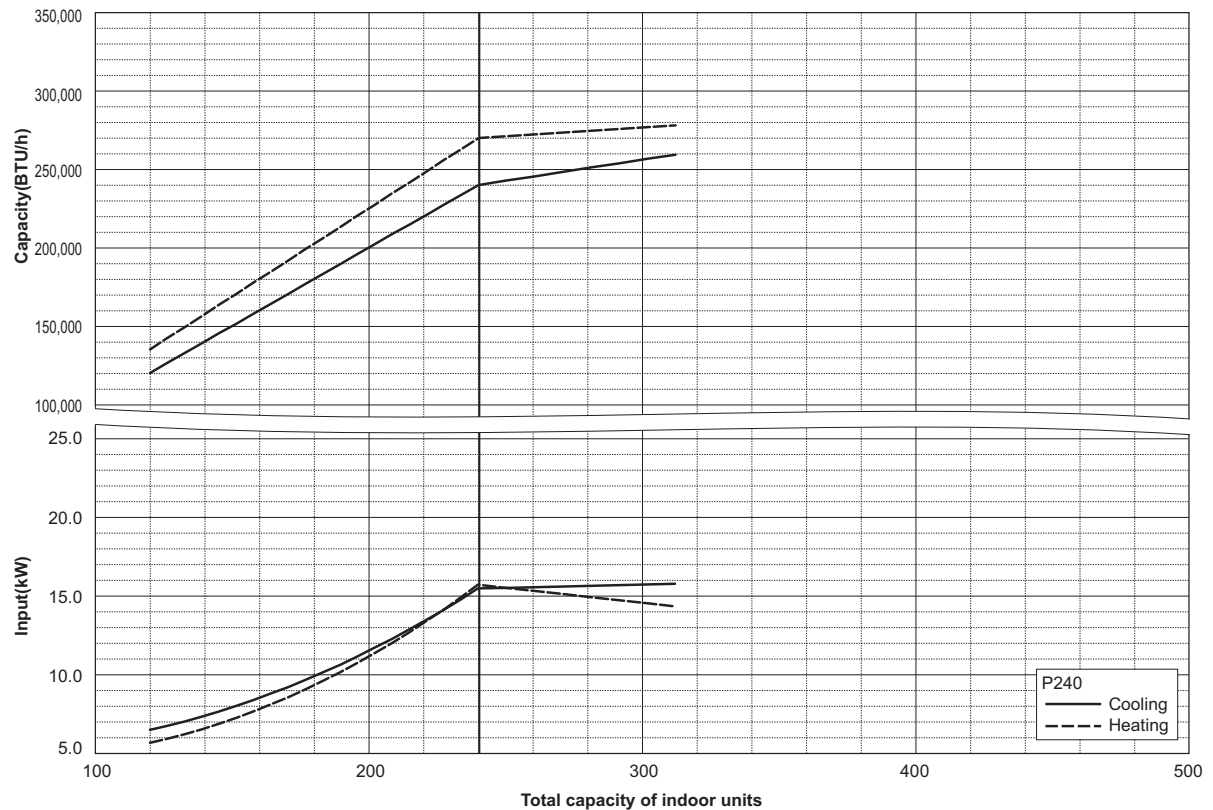


7. CAPACITY TABLES

PQHY-P240TSHMU/YSHMU

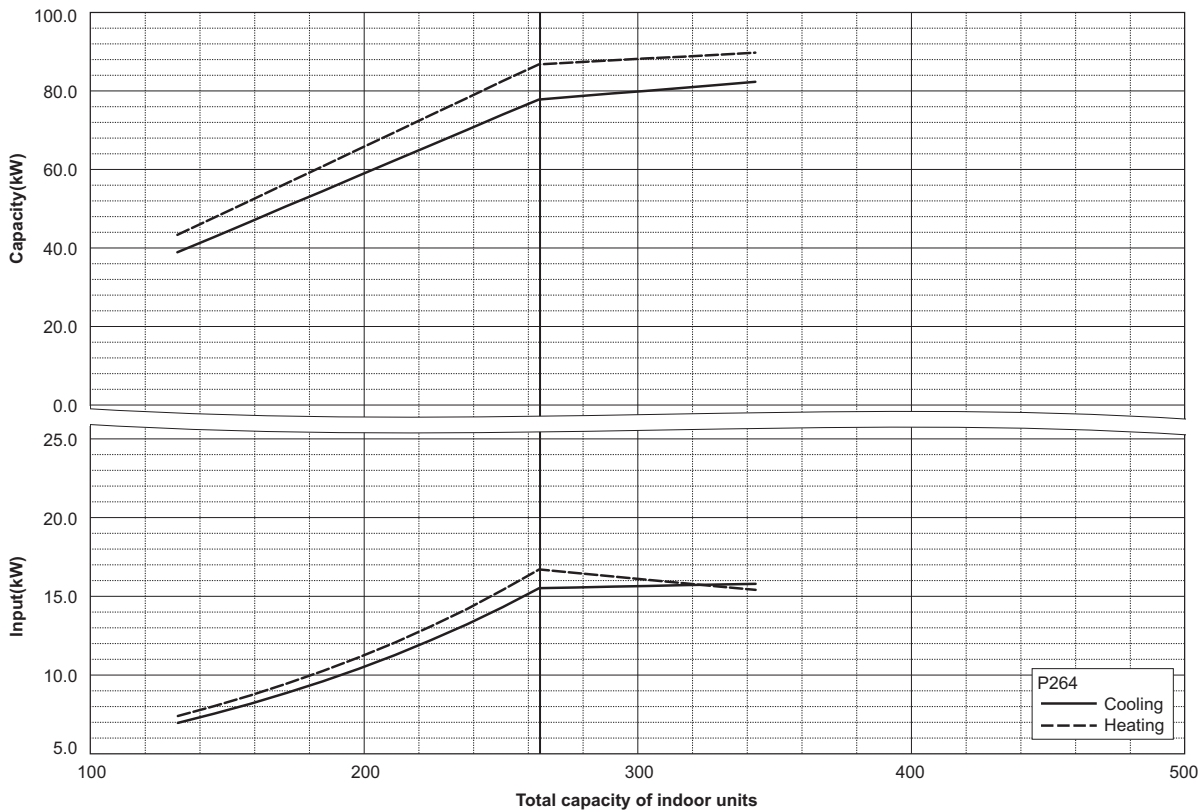


PQHY-P240TSHMU/YSHMU

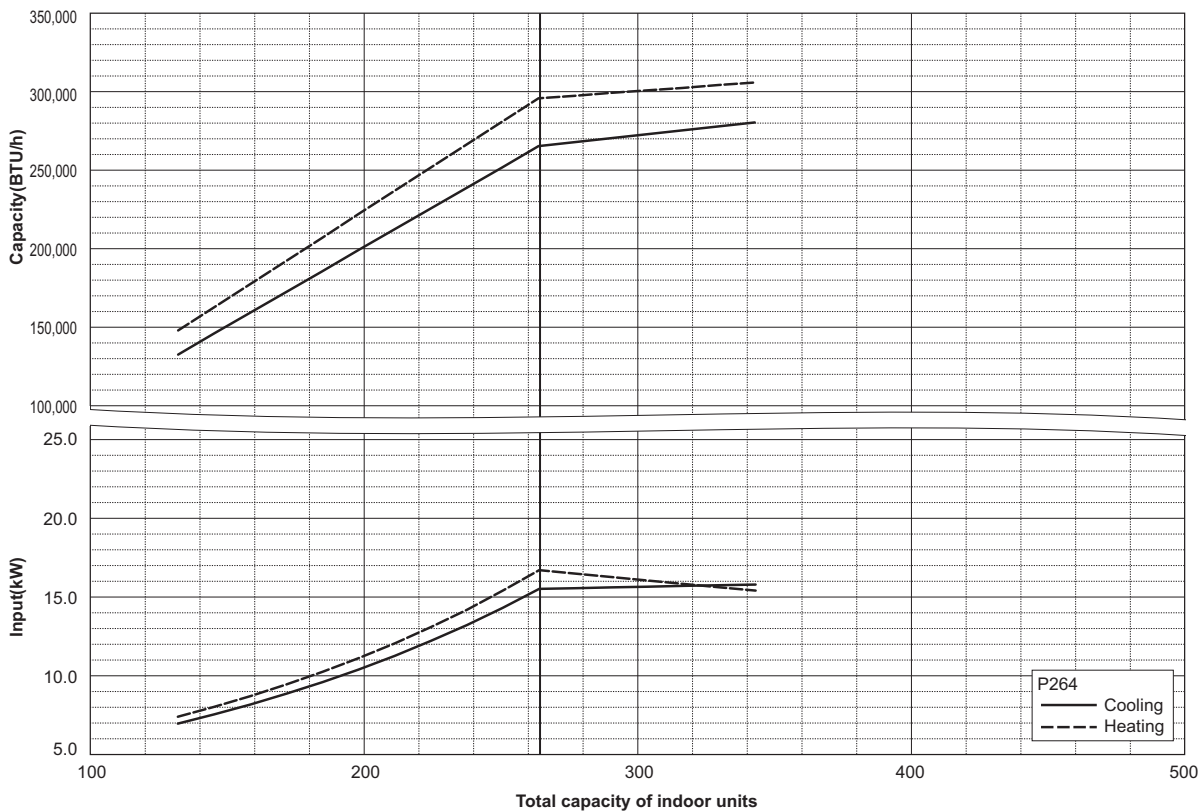


7. CAPACITY TABLES

PQHY-P264TSHMU/YSHMU

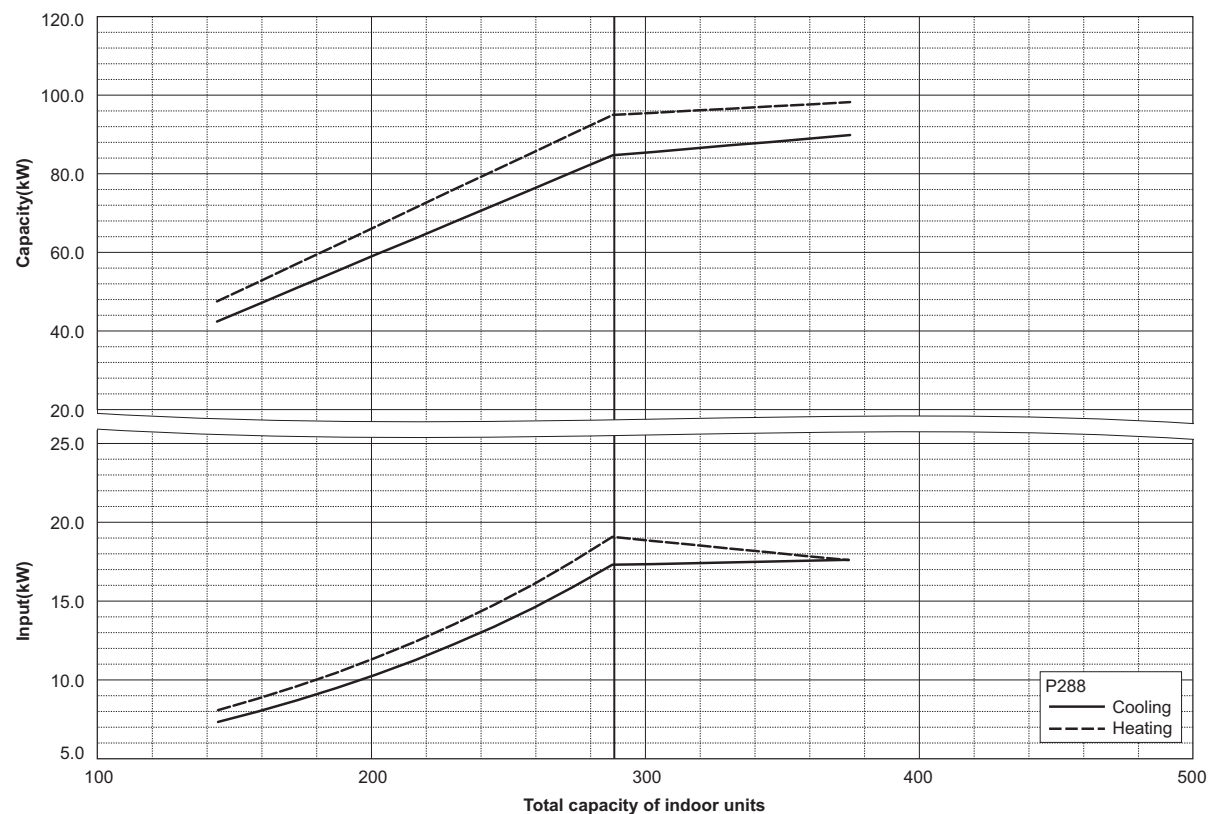


PQHY-P264TSHMU/YSHMU

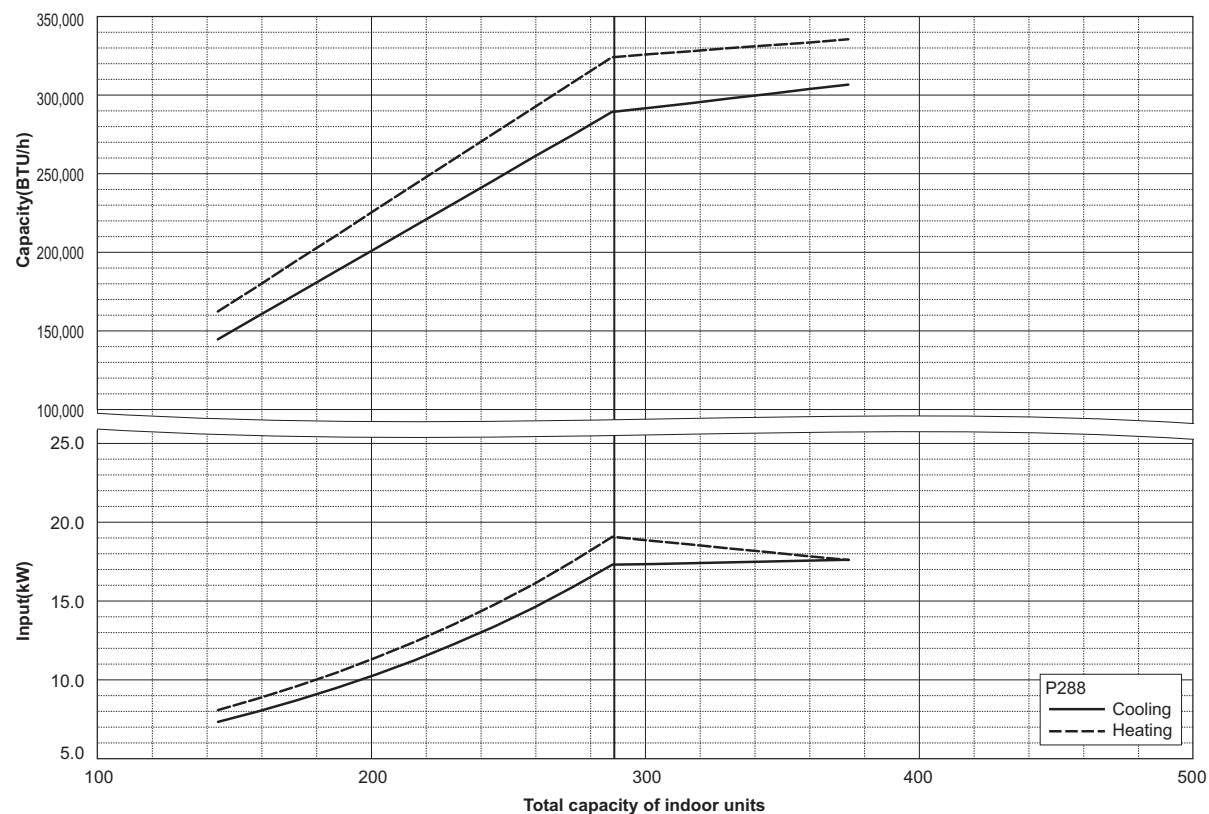


7. CAPACITY TABLES

PQHY-P288TSHMU/YSHMU

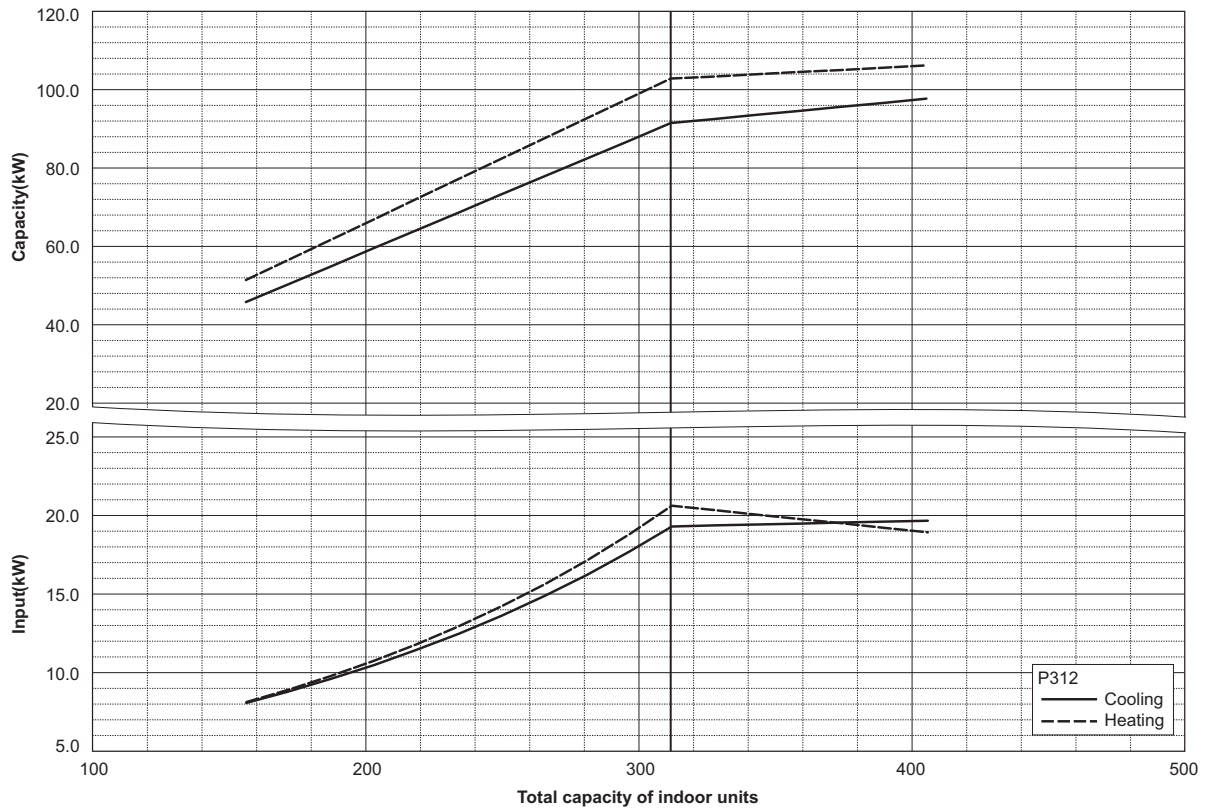


PQHY-P288TSHMU/YSHMU

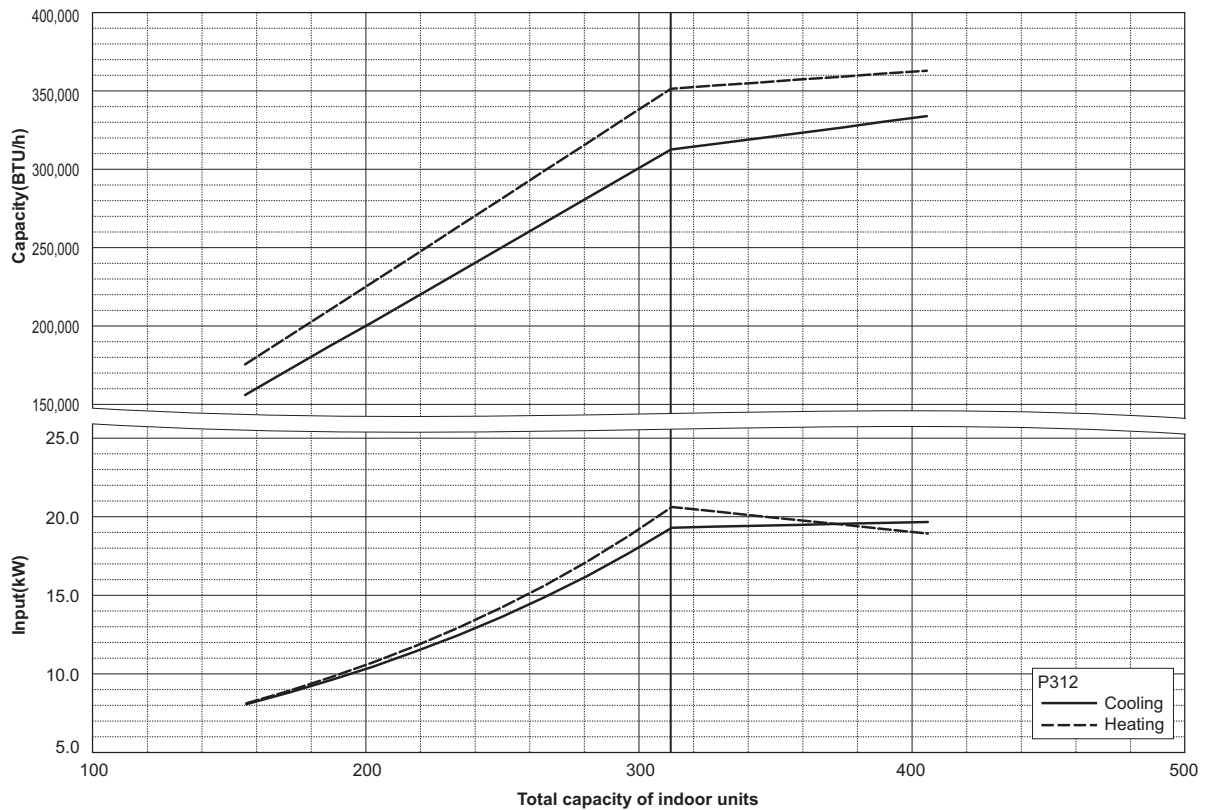


7. CAPACITY TABLES

PQHY-P312TSHMU/YSHMU

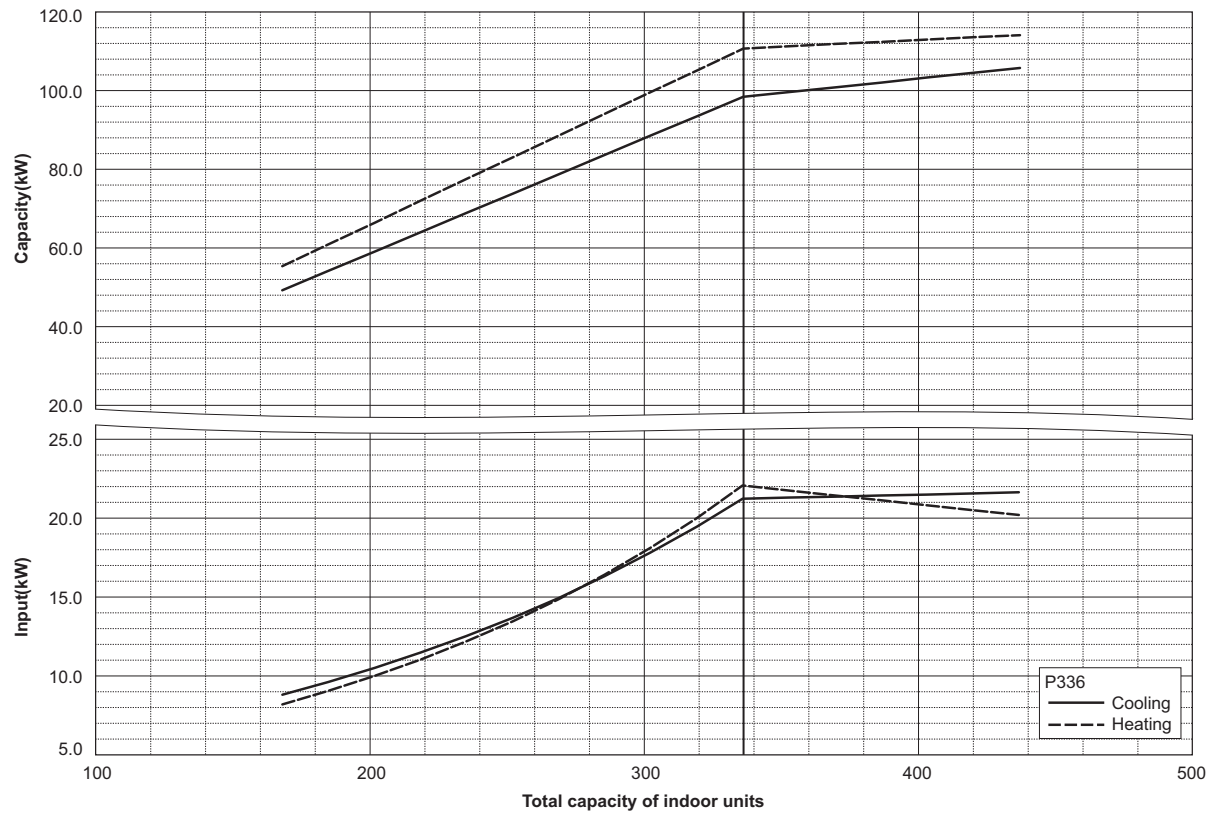


PQHY-P312TSHMU/YSHMU

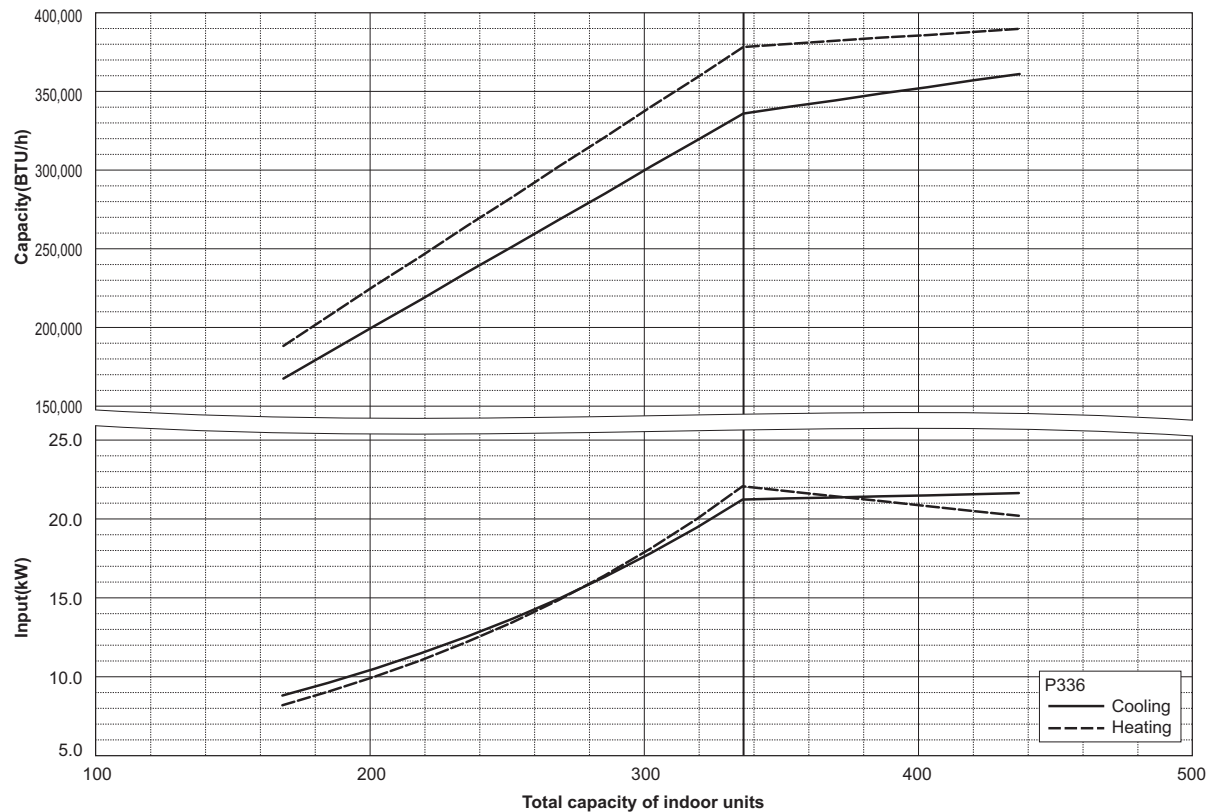


7. CAPACITY TABLES

PQHY-P336TSHMU/YSHMU

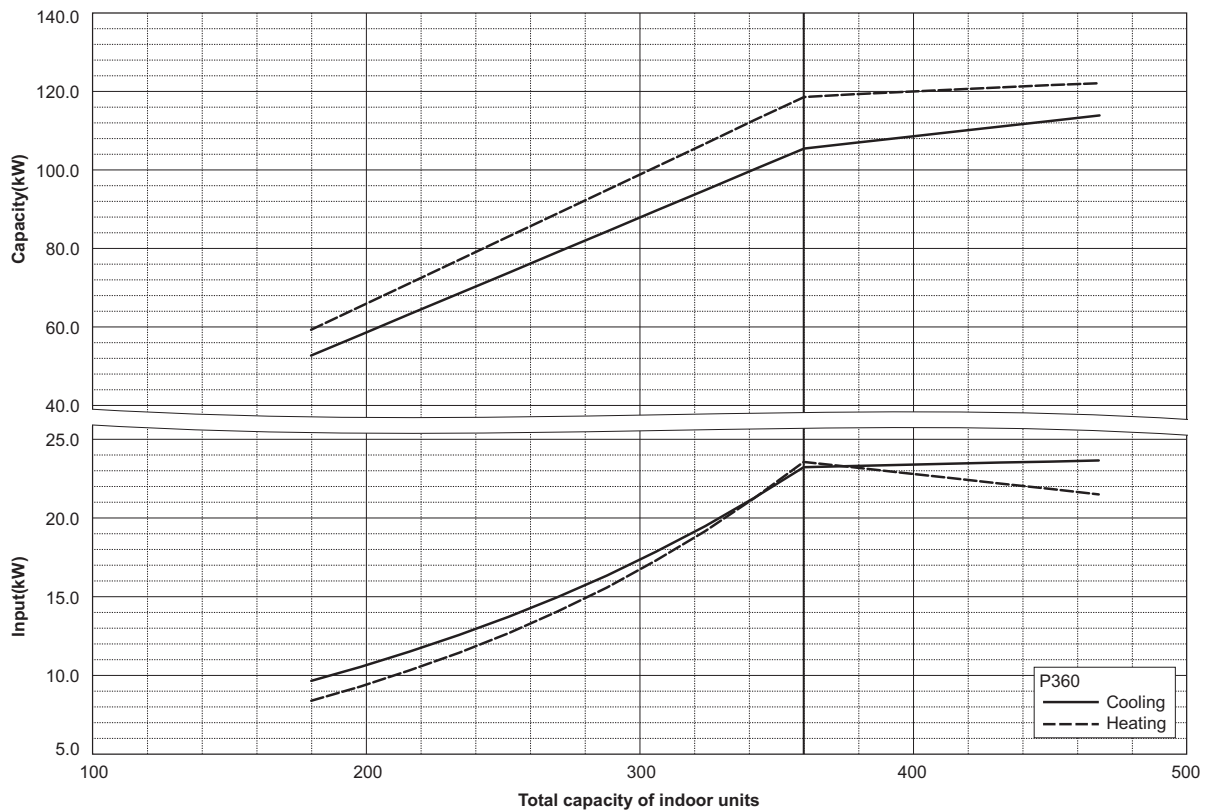


PQHY-P336TSHMU/YSHMU

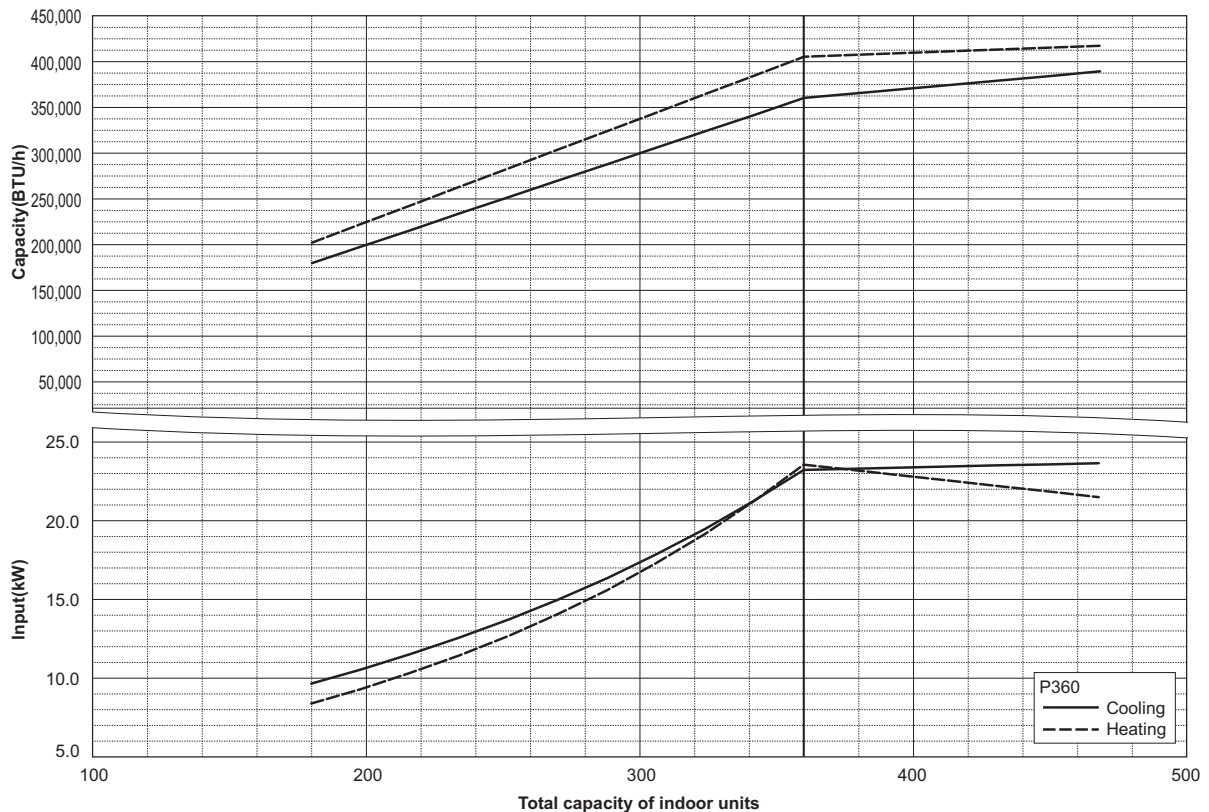


7. CAPACITY TABLES

PQHY-P360TSHMU/YSHMU



PQHY-P360TSHMU/YSHMU

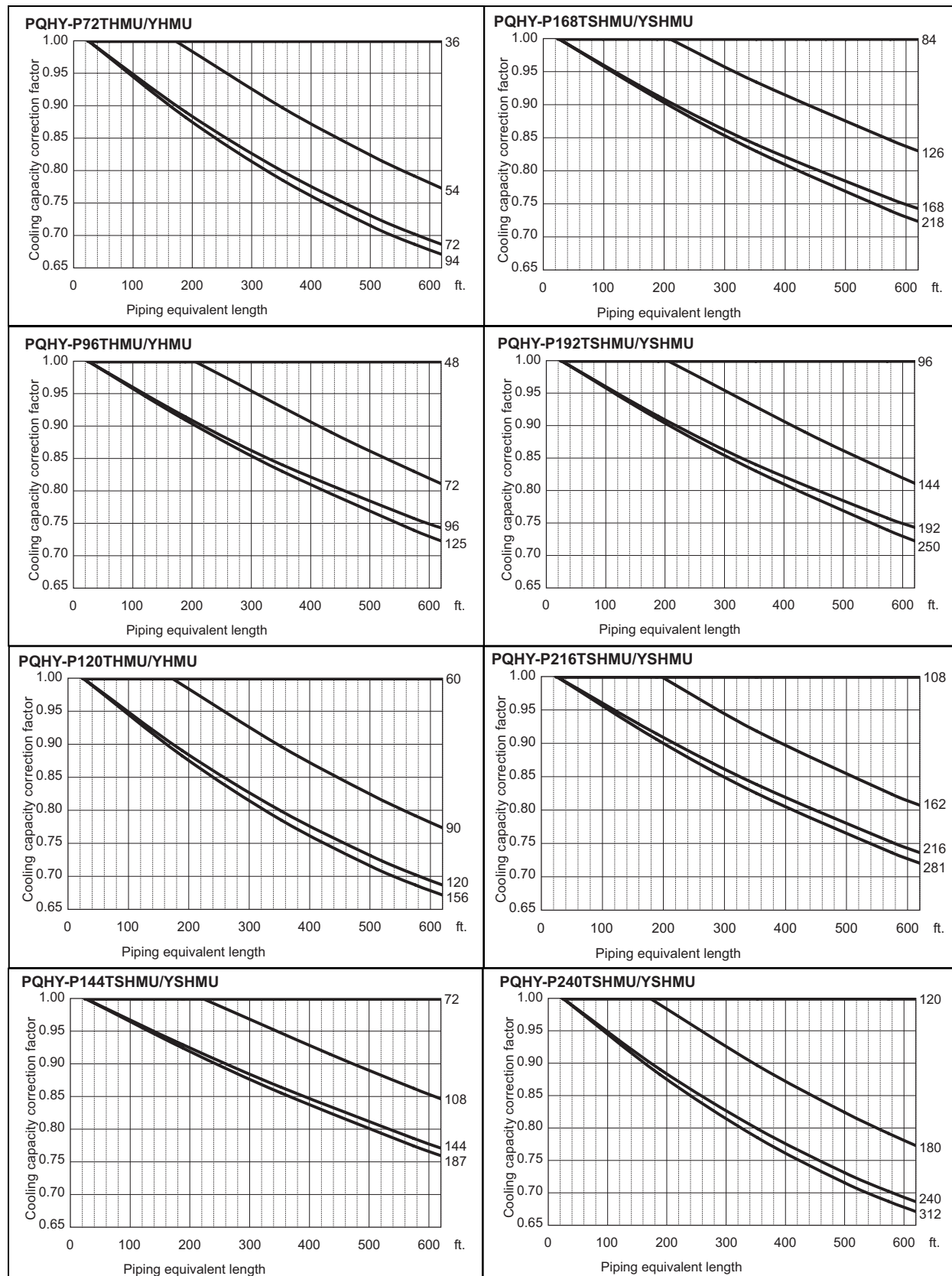


7. CAPACITY TABLES

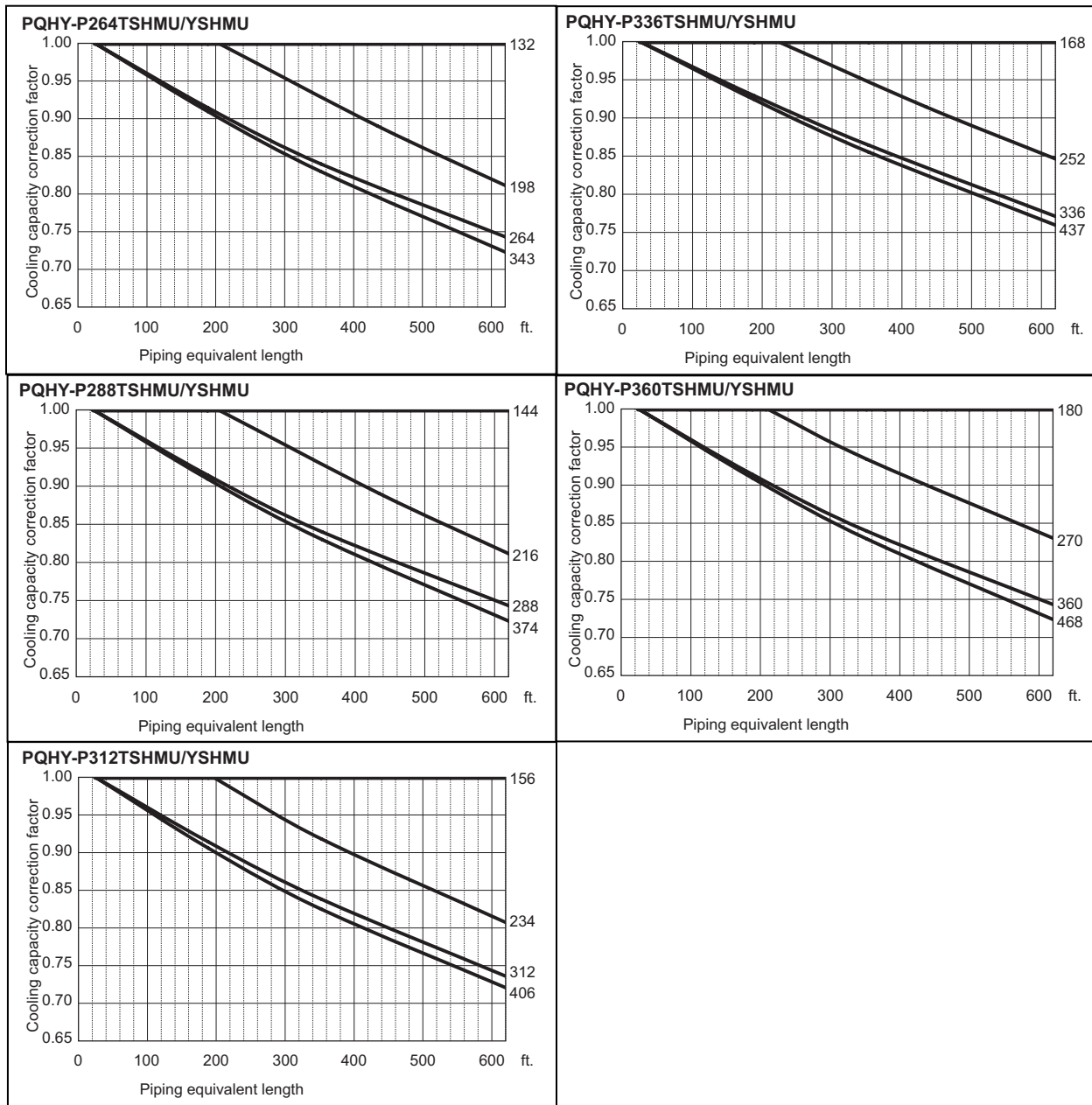
7-3. Correction by Refrigerant Piping Length

CITY MULTI systems can have extended piping lengths if certain limitations are followed, but cooling/heating capacity could be reduced. Using the following correction factor by equivalent piping length shown at 7-3-1 and 7-3-2, capacity can be found. 7-3-3 shows how to obtain the equivalent piping length.

7-3-1. Cooling Capacity Correction

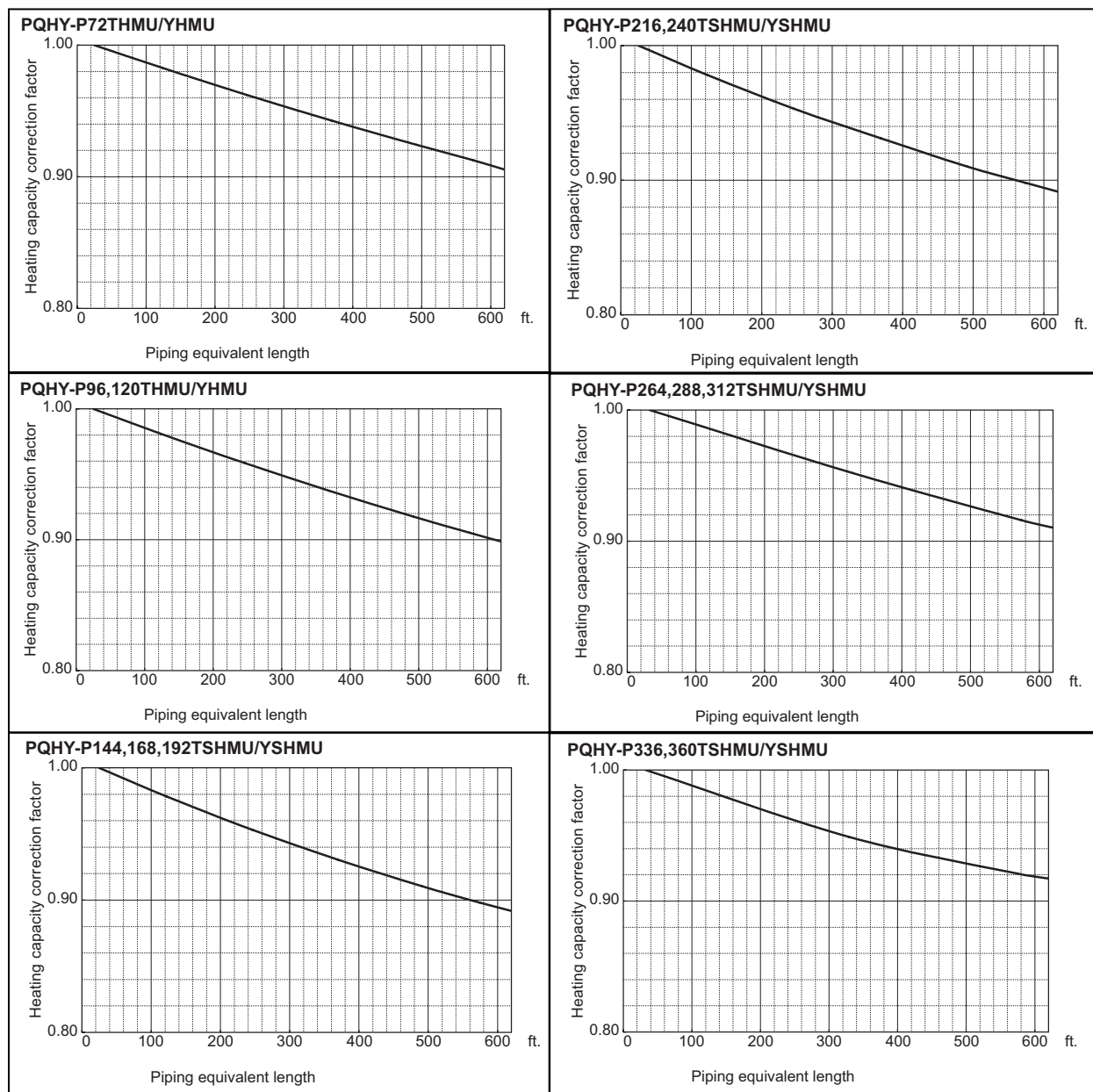


7. CAPACITY TABLES



7. CAPACITY TABLES

7-3-2. Heating Capacity Correction



7-3-3. How to Obtain the Equivalent Piping Length

1. PQHY-P72THMU/YHMU

Equivalent length = (Actual piping length to the farthest indoor unit) + (1.15 x number of bends in the piping) [ft.]

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bends in the piping) [m]

2. PQHY-P96,120THMU/YHMU

Equivalent length = (Actual piping length to the farthest indoor unit) + (1.38 x number of bends in the piping) [ft.]

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bends in the piping) [m]

3. PQHY-P144,168,192,216,240THMU/YHMU

Equivalent length = (Actual piping length to the farthest indoor unit) + (1.64 x number of bends in the piping) [ft.]

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bends in the piping) [m]

4. PQHY-P264,288,312THMU/YHMU

Equivalent length = (Actual piping length to the farthest indoor unit) + (2.30 x number of bends in the piping) [ft.]

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bends in the piping) [m]

5. PQHY-P336,360THMU/YHMU

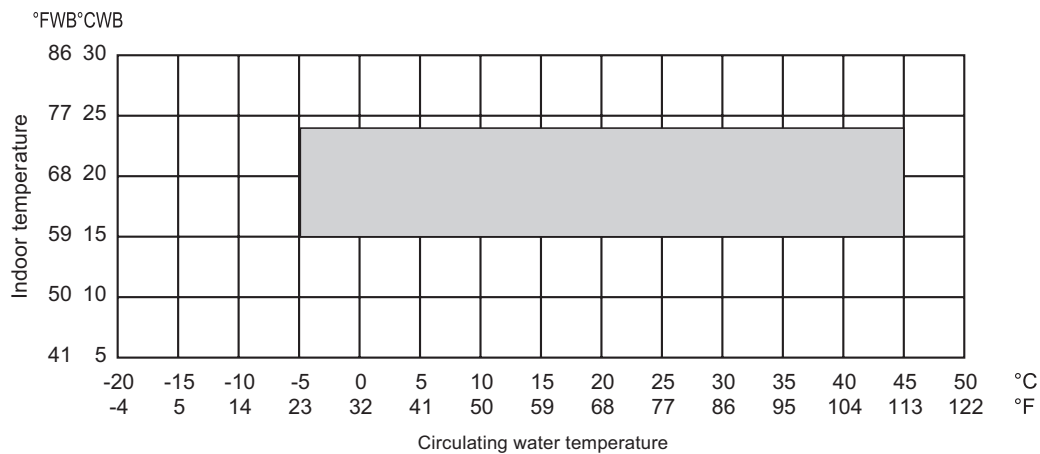
Equivalent length = (Actual piping length to the farthest indoor unit) + (2.63 x number of bends in the piping) [ft.]

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.80 x number of bends in the piping) [m]

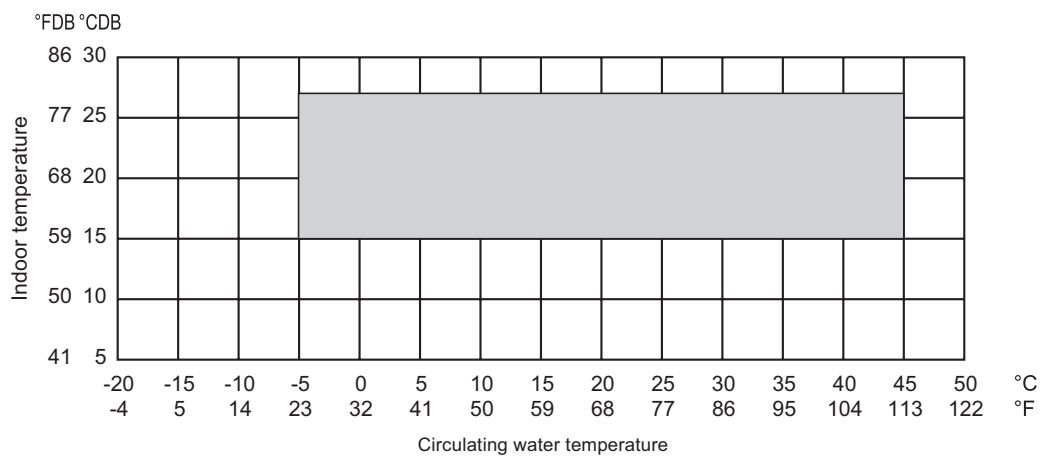
7. CAPACITY TABLES

7-4. Operation Temperature Range

• Cooling



• Heating



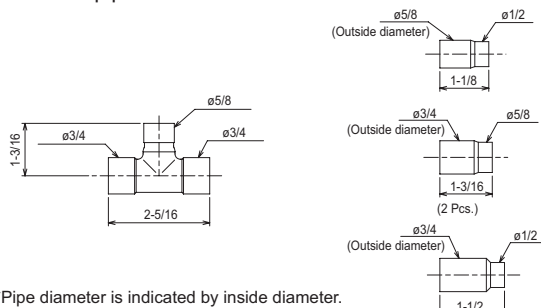
8. OPTIONAL PARTS

8-1. Branch Joint

Piping for CITY MULTI systems can be easily performed with branch joints and headers provided by MITSUBISHI ELECTRIC CORP. For PQHY-P-T(S)HMU/Y(S)HMU, the following sets of branch joints are available. Details for installing the branch joint sets are found in the System Design section, or in the Branch Joint Installation Manual.

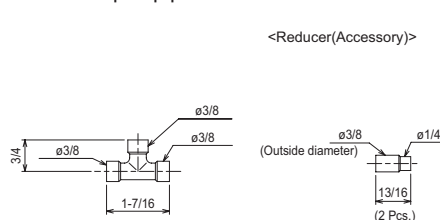
CMY-Y102SS-G2

For Gas pipe:



*Pipe diameter is indicated by inside diameter.

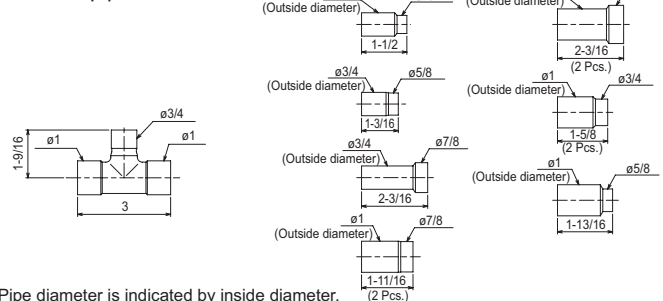
For Liquid pipe:



in.

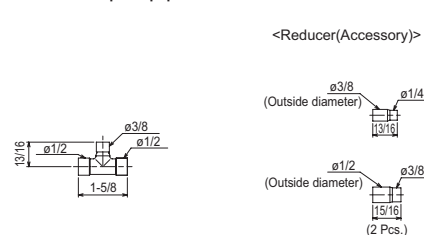
CMY-Y102LS-G2

For Gas pipe:



*Pipe diameter is indicated by inside diameter.

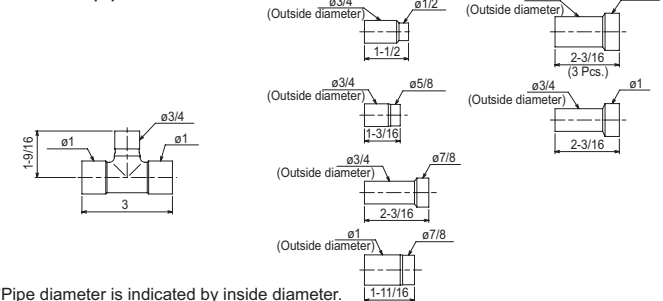
For Liquid pipe:



in.

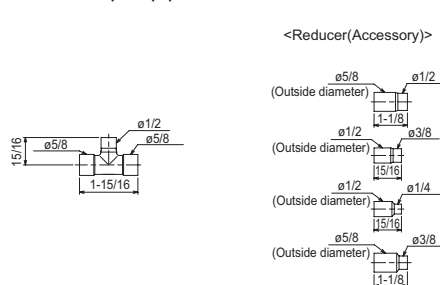
CMY-Y202S-G2

For Gas pipe:



*Pipe diameter is indicated by inside diameter.

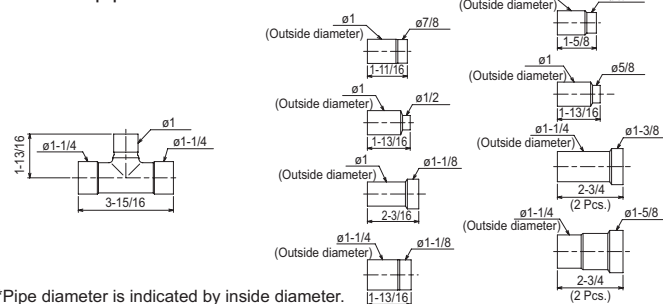
For Liquid pipe:



in.

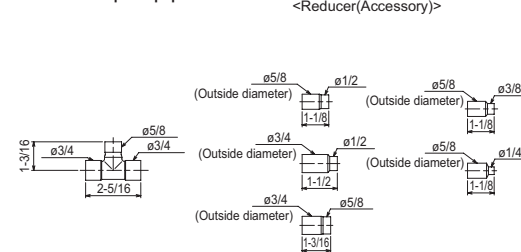
CMY-Y302S-G2

For Gas pipe:



*Pipe diameter is indicated by inside diameter.

For Liquid pipe:



in.

8. OPTIONAL PARTS

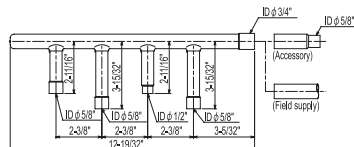
8-2. Headers

Piping for CITY MULTI systems can be easily performed with branch joints and headers provided by MITSUBISHI ELECTRIC CORP. For PQHY-P-T(S)HMU/Y(S)HMU, the following sets of headers are available. Details for installing the headers are found in the System Design section, or in the Water-source Unit's Installation Manual.

CMY-Y104C-G

Ref.: W901636 in.

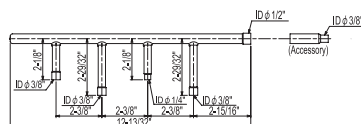
For gas pipe:



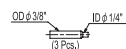
<Reducer(Accessory)>



For liquid pipe:



<Reducer(Accessory)>



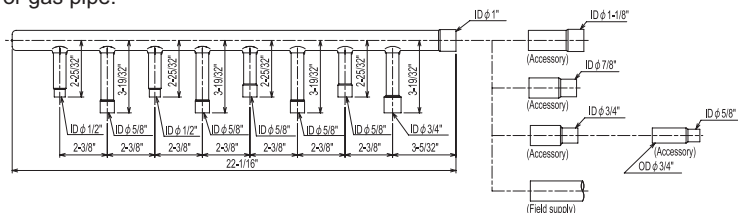
ID: Inner Diameter OD: Outer Diameter

NOTE: Besides above mentioned accessories, caps for $\phi 1/4$ ", $\phi 3/8$ ", $\phi 1/2$ ", $\phi 5/8$ " pipes (each diameter 1 piece) are included in the Header set.

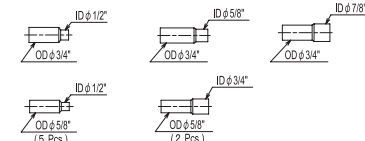
CMY-Y108C-G

Ref.: W901637 in.

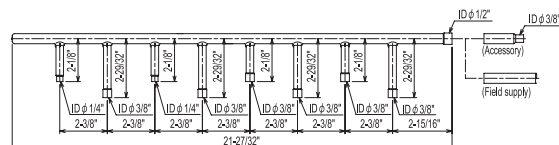
For gas pipe:



<Reducer(Accessory)>



For liquid pipe:



<Reducer(Accessory)>



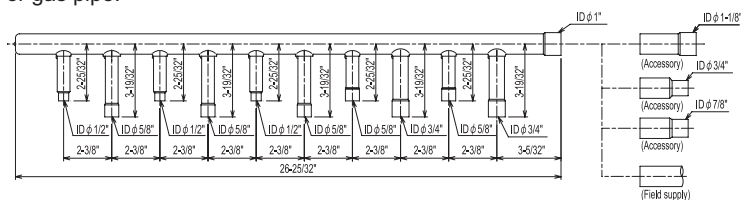
ID: Inner Diameter OD: Outer Diameter

NOTE: Besides above mentioned accessories, caps for $\phi 1/4$ ", $\phi 3/8$ ", $\phi 1/2$ ", $\phi 5/8$ " pipes (each diameter 2 pieces) and 1 cap for $\phi 3/4$ " pipe are included in the Header set.

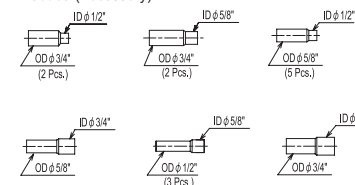
CMY-Y1010C-G

Ref.: W901638 in.

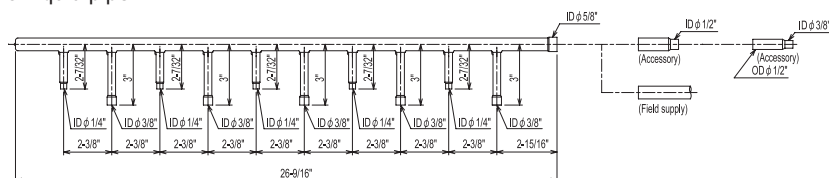
For gas pipe:



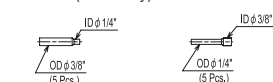
<Reducer(Accessory)>



For liquid pipe:



<Reducer(Accessory)>



ID: Inner Diameter OD: Outer Diameter

NOTE: Besides above mentioned accessories, caps for $\phi 1/4$ ", $\phi 3/8$ ", $\phi 1/2$ ", $\phi 5/8$ " pipes (each diameter 2 pieces) and 1 cap for $\phi 3/4$ " pipe are included in the Header set.

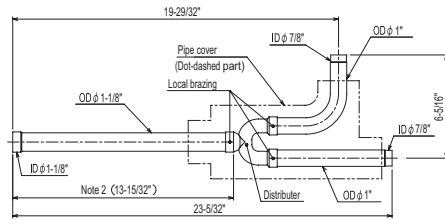
8. OPTIONAL PARTS

8-3. Water-source Unit Twinning Kit

The water-source unit twinning kit is needed to PQHY-P-TSHMU/YSHMU to combine the refrigerant flows of the PQHY-P-THMU/YHMU units.

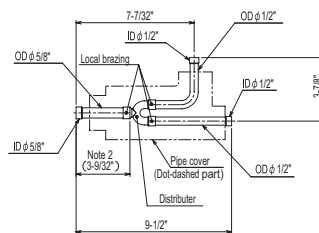
CMY-Y100CBK3

For Gas pipe:

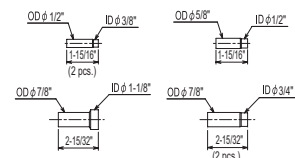


ID: Inner Diameter OD: Outer Diameter

For Liquid pipe:



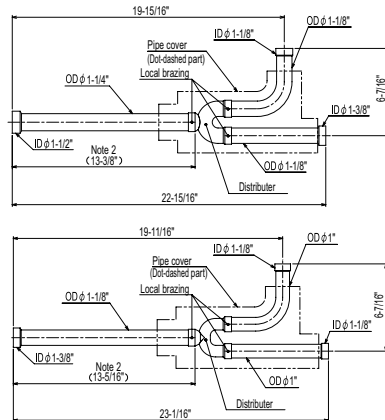
<Reducer(Accessory)>



in.

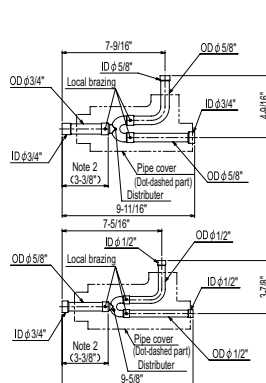
CMY-Y300CBK2

For Gas pipe:



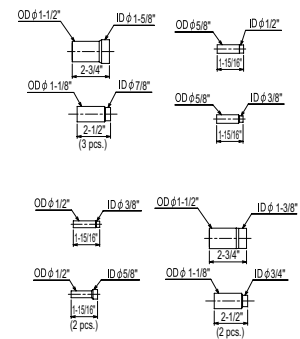
ID: Inner Diameter OD: Outer Diameter

For Liquid pipe:

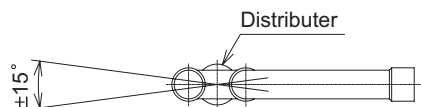


Ref.: CMY_Y300VBK2_EXD_EUDB_SI in.

<Reducer(Accessory)>



Note 1. Reference the attitude angle of the branch pipe below the fig.



The angle of the branch pipe for high pressure is within $\pm 15^\circ$ against the horizontal plane.

2. Use the attached pipe to braze the port-opening of the distributor.
3. Pipe diameter is indicated by inside diameter.
4. Only use the Twinning pipe by Mitsubishi (optional parts).