PK18FL, PK18FL1
PK24FL, PK24FL1
PK30FL, PK30FL1
PK36FL, PK36FL1

CONTENTS

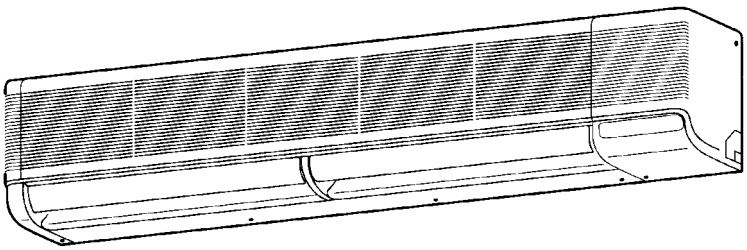
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1 TECHNICAL CHANGE

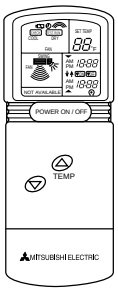
PK18FL → PK18FL1
PK24FL → PK24FL1
PK30FL → PK30FL1
PK36FL → PK36FL1

- DRAIN PAN shape has changed.
- NOSE shape has changed.
- UNDER PLATE shape has changed.

2 FEATURES



Indoor unit



Wireless Remote controller

Models	Cooling capacity	SEER
PK18FL, PK18FL1	18,500 Btu/h	11.3
PK24FL, PK24FL1	24,000 Btu/h	10.6
PK30FL, PK30FL1	30,000 Btu/h	10.7
PK36FL, PK36FL1	34,200 Btu/h	10.2

1. COMPACT DESIGN

The PK series models have been downsized and now require such minimal wall space that they can even be installed above windows.

2. LCD WIRELESS REMOTE CONTROLLER

The new wireless remote controller has a larger easy-to-read temperature display, and executes ON/OFF commands and temperature settings with a press of the button.

3. AUTO FLAP SHUTTER

With a simple flick of the OFF switch the air outlet can be closed off with a shutter. The shutter also functions as a flap during operation to adjust the air flow angle, with “Auto Angle 1” securing a comfortable air flow.

4. INSTALLATION : FAST AND EASILY ADAPTABLE

(1) Multi-directional piping

Multi directional drain and refrigerant piping radically improves flexibility in selecting installation layouts. PK18/24/30/36 models boast refrigerant piping in 4 directions and drain piping in 2 directions.

(2) Back plate installation guide

The back plate installation guide gives clear instructions on installation positions. The enlarged back plate secures the unit firmly to the wall, while the support piece which lifts the unit makes left side piping work much easier.

(3) Easily removable filter and convenient wireless remote controller

The presence of thumb screws on the filters means that the filters can be quickly and smoothly removed.

5. HIGH RELIABILITY AND EASY SERVICING

In addition to the self-diagnostic function, units are also equipped with a 3-minute time delay mechanism (cooling), an auto restart function, an emergency operation function, a test run switch, etc., to assure high reliability and easy servicing.

6. NITROGEN GAS IS CHARGED TO INDOOR UNIT

Indoor unit and refrigerant pipes are charged with nitrogen gas (N_2) instead of R22 before shipment from the factory.

3 PART NAME AND FUNCTIONS

Wireless remote controller

OPERATION MODE display

Operation mode display indicates which operation mode is in effect.
• CHECK • TEST RUN display
CHECK&TEST RUN display indicates that the unit is being checked or test-run.

display

Displays when batteries are dead.

display

Displays when setting timer.

display

Lights when signal is sent from the remote controller to the indoor unit.

FAN SPEED display

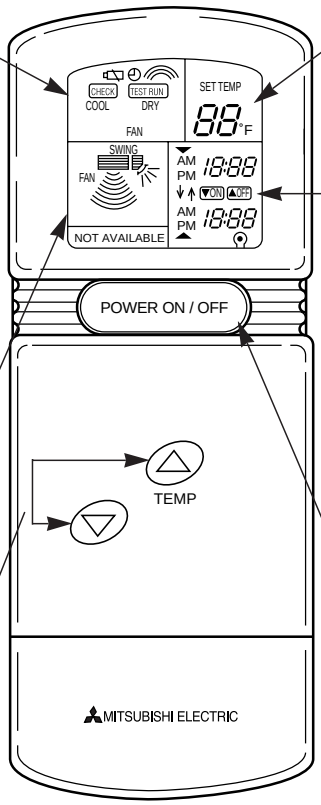
FAN SPEED display indicates which fan speed has been selected.

AIR DISCHARGE display

This displays the air direction

SET TEMPERATURE button

Used to change the set temperature setting range: cooling 65°F to 87°F



85°F display

SET TEMP. display indicates desired temperature set.

CLOCK display

DIsplays the current time.

"◉"display

Flashes when the current time is displayed.

Timer setting display

Displays when in timer operation or when setting timer.

"⬇" "⬆" display

Displays the order of timer operation.

"▼ ON" "▲ OFF" display

Displays the selected timer function.
(ON timer function or OFF timer function).

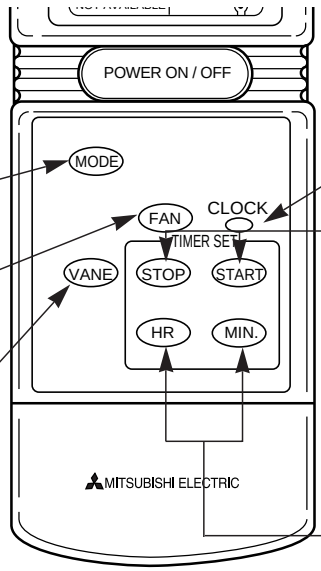
▼▲display

Displays when the current time and the timer time can be changed.

ON/OFF button

The unit is turned ON and OFF alternately each time the button is pressed.

● When cover is open.



MODE SELECT button

MODE SELECT button is used to change cooling, dry (dehumidify) and ventilation operation modes.

FAN SPEED SELECT button

FAN SPEED SELECT button selects low or high fan speed.

AIR DISCHARGE button

AIR DISCHARGE button regulates the vertical distribution of airflow.

SET CLOCK button

Button used to set the current time.

TIMER CONTROL buttons

STOP (OFF timer): when this switch is set, the air conditioner will be automatically stopped at the preset time.
START (ON timer): when this switch is set, the air conditioner will be automatically started at the preset time.

HR. and MIN.buttons

Buttons used to set the "hour and minute" of the current time and timer time.

4 SPECIFICATIONS

Item \ Model			PK18FL PK18FL1	PK24FL PK24FL1	PK30FL PK30FL1	PK36FL PK36FL1
Capacity	✵ 1	Btu/h	18,500	24,000	30,000	34,200
Power consumption	✵ 1	kW	1.75	2.34	3.06	3.47
EER	✵ 1		10.6	10.3	9.8	9.9
SEER			11.3	10.6	10.7	10.2
INDOOR UNIT MODEL			PK18FL, PK18FL1	PK24FL, PK24FL1	PK30FL, PK30FL1	PK36FL, PK36FL1
External finish			Munsell 3.4Y7.7/0.8			
Power supply		V, Phase, Hz	115, 1, 60			
Max. fuse size (time delay)		A	15	15	15	15
Min ampacity		A	1	1	2	2
Fan motor		F.L.A.	0.7	0.7	1.0	1.0
Airflow Hi-Lo	Dry	CFM	710-530	710-530	990-780	990-780
	Wet	CFM	640-480	640-480	890-700	890-700
Moisture removal		Pints/h	5.3	7.2	9.6	10.5
Sound level Hi-Lo		dB	48-41	48-41	49-44	49-44
Unit drain pipe I.D.		in.	1-1/16	1-1/16	1-1/16	1-1/16
Dimensions	W	in.	55-1/8		66-5/32	
	D	in.	9-1/4			
	H	in.	13-3/8			
Weight		lb.	53	53	62	62
OUTDOOR UNIT MODEL			PU18EK1	PU24EK1	PU30EK1	PU36EK1
External finish			Munsell 5Y7/1			
Power supply		V, Phase, Hz	208/230, 1, 60			
Max. fuse size (time delay)		A	20	20	30	30
Min. ampacity		A	16	16	20	22
Fan motor		F.L.A	0.75	0.65+0.65	0.65+0.65	0.75+0.75
Compressor	Model		RH247NAB	NH33NBD	NH41NAD	NH47NAD
		R.L.A	12.0	11.5	14.0	17.5
		L.R.A	37	54	73	87
Crankcase heater		A(W)	0.11/0.12 (23/28)	0.16/0.17 (33/39)	0.16/0.17 (33/39)	0.16/0.17 (33/39)
Refrigerant control			Capillary tube			
Sound level		dB	53	55	55	55
Dimensions	W	in.	34-1/4			38-3/16
	D	in.	11-5/8			13-9/16
	H	in.	33-1/2	49-9/16		
Weight		lb.	154	207	208	220
REMOTE CONTROLLER			With indoor unit			
Control voltage (by built-in transformer)			Indoor unit - outdoor unit : DC12V			
REFRIGERANT PIPING			Not supplied (optional parts)			
Pipe size	Liquid	in.	3/8		1/2	
	Gas	in.	5/8		3/4	
Connection method	Indoors		Flared			
	Outdoors		Flared			
Between the indoor & outdoor units	Height	ft	130	164		
	Piping length	fr	130	164		
Refrigerant charge		–	5 lbs 8 oz	9 lbs 15 oz	10 lbs 2 oz	10 lbs 9 oz
Refrigerant oil		cc <Model>	520 <MS-56>	1200 <MS32N-1>	1300 <MS32N-1>	

NOTES : ✵ 1.Rating conditions —indoor : 80˚FDB, 67˚FWB outdoor : 95˚FDB,75˚FWB.

Operating range

		Indoor intake air temperature	Outdoor intake air temperature
Cooling	Maximum	95˚FDB, 71˚FWB	115˚FDB
	Minimum	67˚FDB, 57˚FWB	0˚FDB *

* In case of the wind baffle is installed.
(In case of the wind baffle is not installed, the minimum temperature will be 23˚FDB.)

5 DATA

1. PERFORMANCE DATA

1) COOLING CAPACITY

Models	Indoor air		IWB (˚F)	Outdoor intake air DB temperature (˚F)														
	Airflow (CFM) / B.F			75			85			95			105			115		
				TC	SHC	TPC	TC	SHC	TPC	TC	SHC	TPC	TC	SHC	TPC	TC	SHC	TPC
PK18FL PK18FL1	710 0.14	DB 80˚F	71	21.5	14.8	1.52	20.8	14.3	1.65	19.9	13.7	1.80	19.0	13.0	1.95	18.1	12.4	2.10
			67	20.1	16.5	1.49	19.3	15.8	1.61	18.5	15.2	1.75	17.6	14.4	1.89	16.7	13.7	2.03
			63	18.8	17.9	1.46	18.0	17.2	1.57	17.2	16.4	1.70	16.4	15.6	1.83	15.5	14.8	1.96
		DB75˚F(50%RH)	62.5	18.6	16.0	1.45	17.9	15.4	1.57	17.1	14.7	1.70	16.2	13.9	1.83	15.4	13.2	1.96
		DB72˚F(50%RH)	60	17.8	15.6	1.43	17.1	15.0	1.55	16.3	14.3	1.67	15.5	13.6	1.79	14.6	12.8	1.92
		DB70˚F(50%RH)	59	17.4	15.0	1.43	16.7	14.4	1.54	16.0	13.8	1.66	15.1	13.1	1.78	14.3	12.4	1.90
PK24FL PK24FL1	710 0.14	DB 80˚F	71	27.9	16.4	2.04	26.9	15.8	2.21	25.8	15.1	2.40	24.6	14.4	2.61	23.4	13.7	2.81
			67	26.1	18.8	1.99	25.1	18.1	2.16	24.0	17.3	2.34	22.9	16.5	2.53	21.7	15.6	2.71
			63	24.3	20.7	1.95	23.4	20.0	2.11	22.4	19.1	2.28	21.3	18.2	2.45	20.1	17.2	2.62
		DB75˚F(50%RH)	62.5	24.1	18.3	1.94	23.2	17.6	2.10	22.2	16.8	2.27	21.1	16.0	2.44	19.9	15.1	2.62
		DB72˚F(50%RH)	60	23.0	17.8	1.92	22.1	17.1	2.07	21.1	16.4	2.23	20.0	15.5	2.40	18.9	14.7	2.56
		DB70˚F(50%RH)	59	22.6	17.3	1.91	21.7	16.6	2.05	20.7	15.8	2.22	19.6	15.0	2.38	18.5	14.1	2.54
PK30FL PK30FL1	990 0.15	DB 80˚F	71	34.9	21.5	2.66	33.7	20.8	2.89	32.3	19.9	3.14	30.8	19.0	3.41	29.3	18.1	3.68
			67	32.6	24.5	2.61	31.4	23.6	2.82	30.0	22.5	3.06	28.6	21.5	3.30	27.1	20.3	3.54
			63	30.4	26.9	2.55	29.2	25.8	2.75	27.9	24.6	2.98	26.6	23.5	3.21	25.1	22.2	3.43
		DB75˚F(50%RH)	62.5	30.2	23.8	2.54	29.0	22.9	2.75	27.7	21.9	2.97	26.3	20.7	3.20	24.9	19.6	3.42
		DB72˚F(50%RH)	60	28.8	23.2	2.51	27.7	22.3	2.70	26.4	21.3	2.92	25.1	20.2	3.14	23.7	19.1	3.35
		DB70˚F(50%RH)	59	28.3	22.5	2.49	27.1	21.5	2.69	25.9	20.6	2.90	24.6	19.5	3.11	23.2	18.4	3.32
PK36FL PK36FL1	990 0.15	DB 80˚F	71	39.8	23.0	3.02	38.4	22.1	3.28	36.8	21.2	3.57	35.1	20.2	3.87	33.4	19.3	4.17
			67	37.1	26.3	2.96	35.7	25.3	3.20	34.2	24.3	3.47	32.6	23.1	3.74	30.9	21.9	4.02
			63	34.7	29.3	2.89	33.3	28.1	3.12	31.9	26.9	3.38	30.3	25.6	3.64	28.7	24.2	3.89
		DB75˚F(50%RH)	62.5	34.4	25.8	2.88	33.1	24.8	3.11	31.6	23.7	3.37	30.0	22.5	3.63	28.4	21.3	3.88
		DB72˚F(50%RH)	60	32.8	25.1	2.84	31.5	24.1	3.07	30.1	23.0	3.31	28.6	21.9	3.56	27.0	20.7	3.80
		DB70˚F(50%RH)	59	32.2	24.3	2.83	30.9	23.3	3.05	29.5	22.3	3.29	28.0	21.1	3.53	26.4	19.9	3.77

Notes 1. B.F. : Bypass Factor, IWB : Intake air wet-bulb temperature
TC : Total Capacity (x10^3 Btu/h), SHC : Sensible Heat Capacity (x10^3 Btu/h)
TPC : Total Power Consumption (kW)
2. Cooling capacity correction factors and Refrigerant piping length (one way) range.

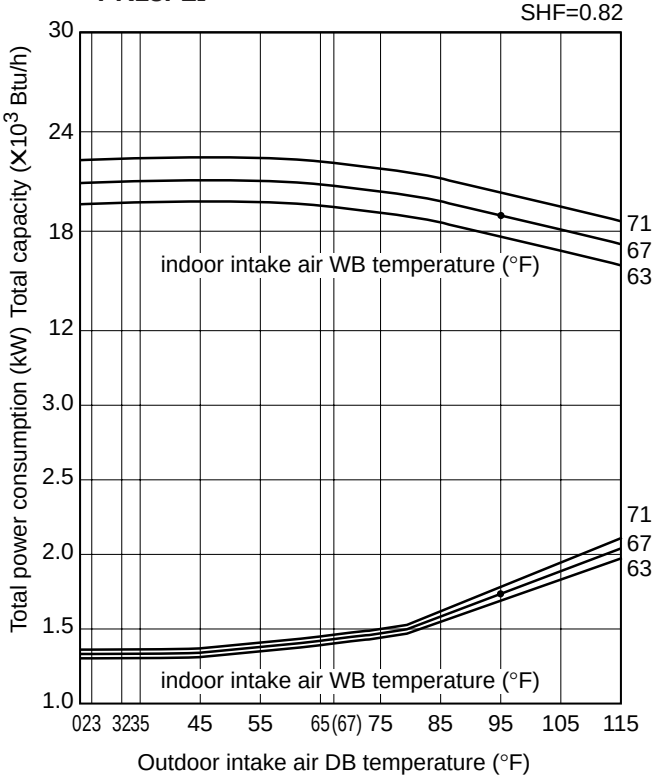
2) COOLING CAPACITY CORRECTIONS FACTOR

MODEL	Refrigerant piping length (one way)									
	25ft	40ft	55ft	70ft	85ft	100ft	115ft	130ft	150ft	164ft
PK18FL, PK18FL1	1.0	0.992	0.983	0.978	0.966	0.959	0.950	0.945	—	—
PK24FL, PK24FL1	1.0	0.981	0.968	0.952	0.940	0.925	0.913	0.900	0.886	0.874
PK30FL, PK30FL1	1.0	0.981	0.968	0.952	0.940	0.925	0.913	0.900	0.886	0.874
PK36FL, PK36FL1	1.0	0.981	0.968	0.952	0.940	0.925	0.913	0.900	0.886	0.874

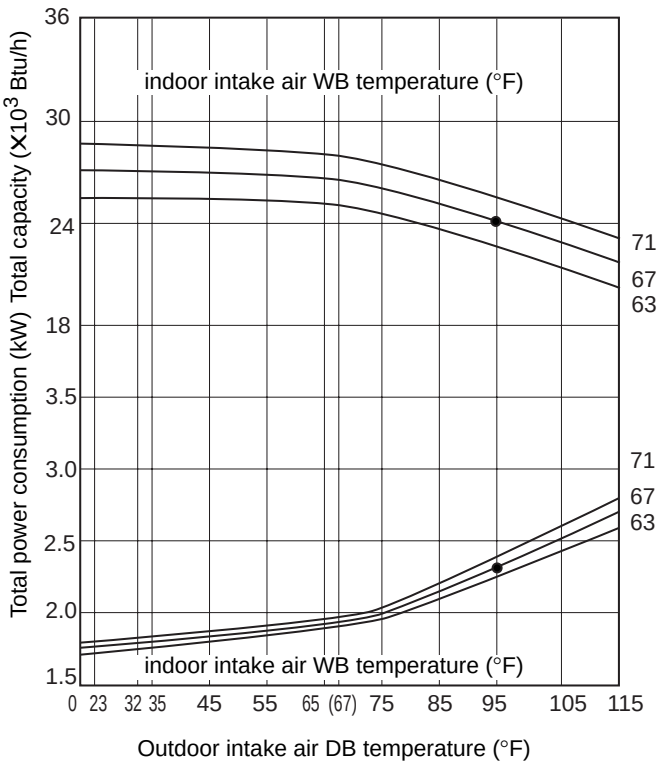
2. PERFORMANCE CURVE

NOTE : A point on the curve shows the reference point.

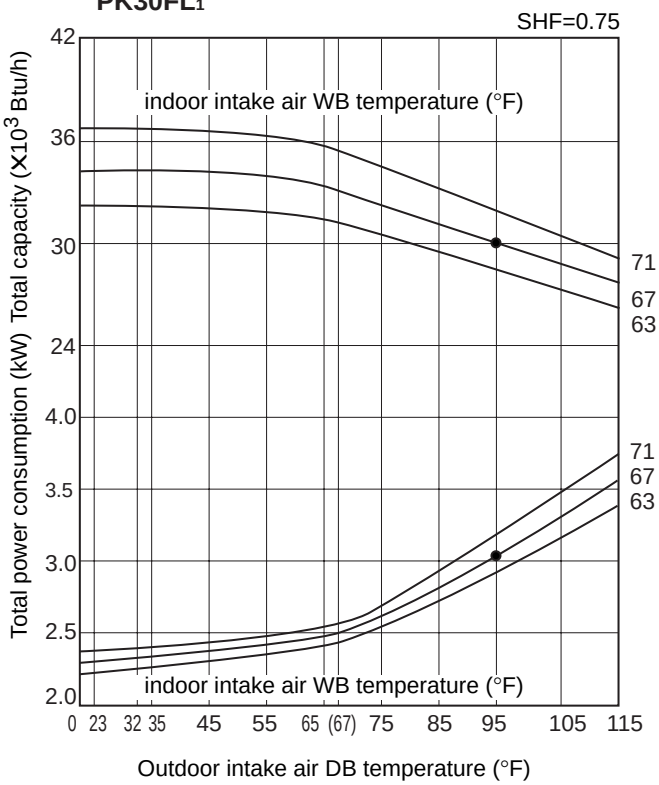
PK18FL
PK18FL$_1$ **COOLING CAPACITY**



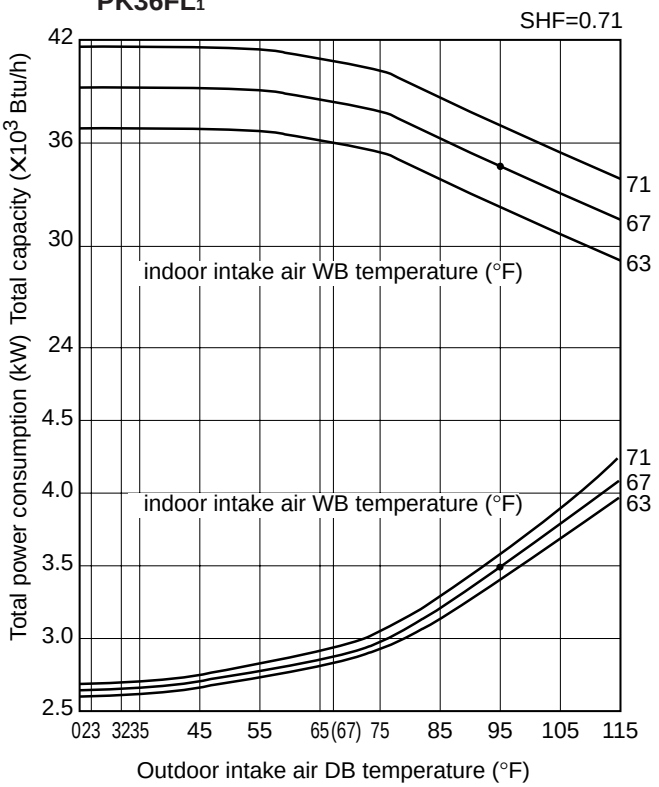
PK24FL
PK24FL$_1$ **COOLING CAPACITY**



PK30FL
PK30FL$_1$ **COOLING CAPACITY**

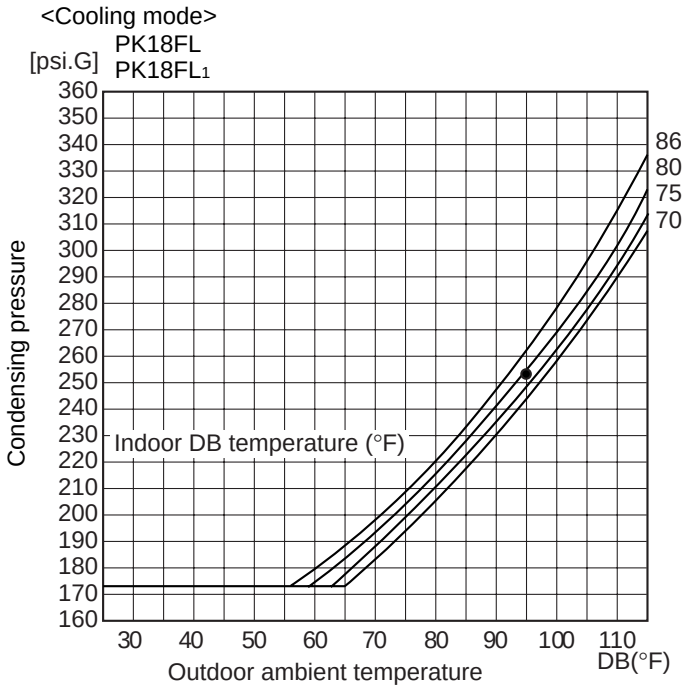


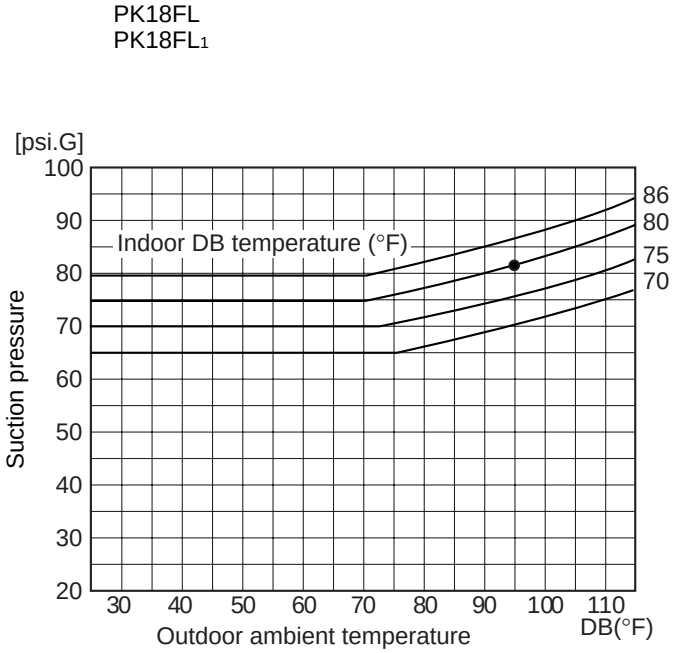
PK36FL
PK36FL$_1$ **COOLING CAPACITY**



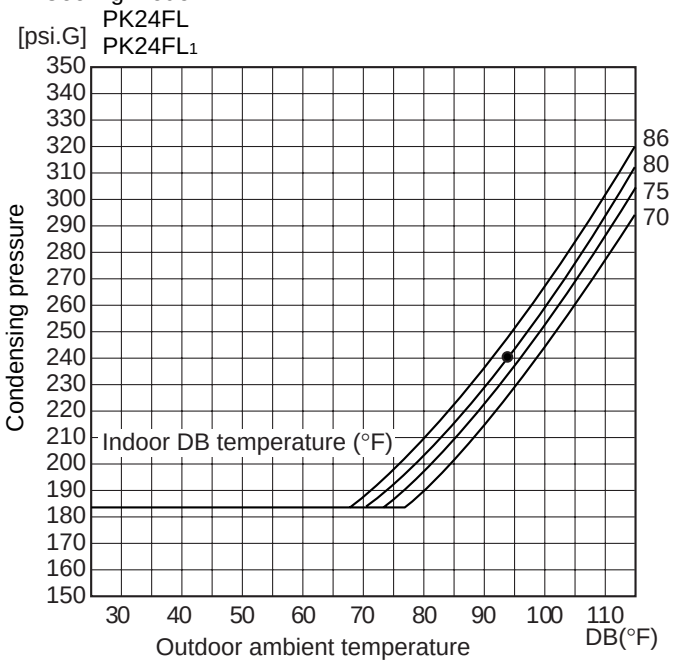
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Air flow should be set at HI.
A point on the curve shows the reference point.

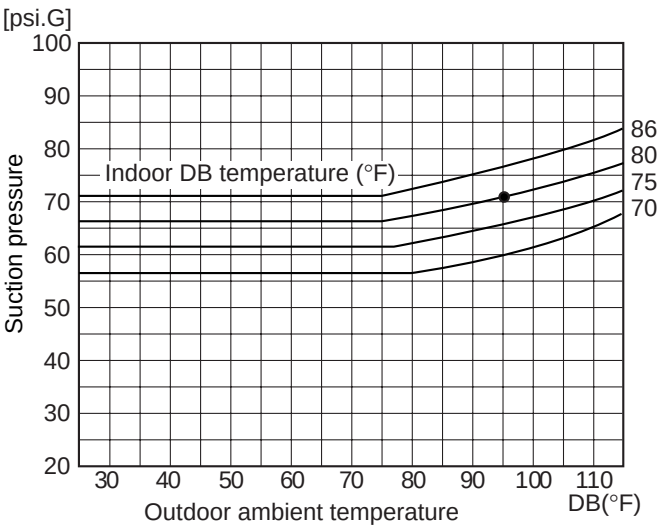
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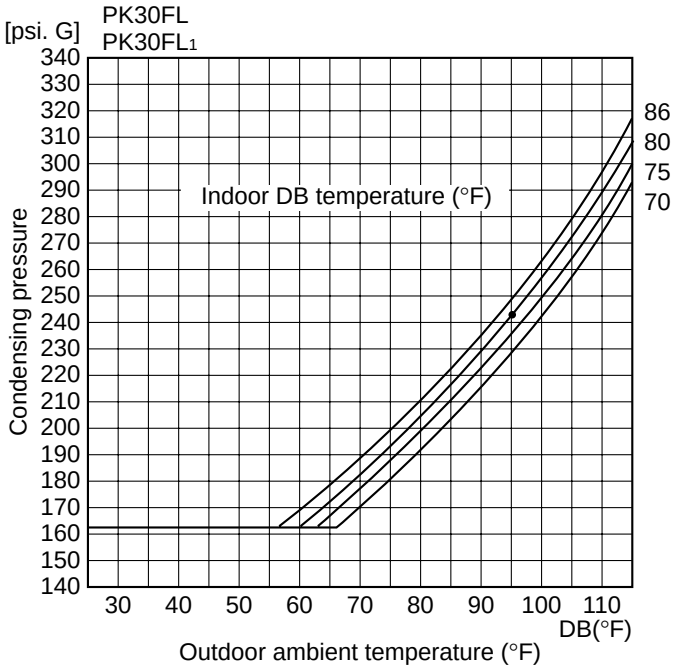
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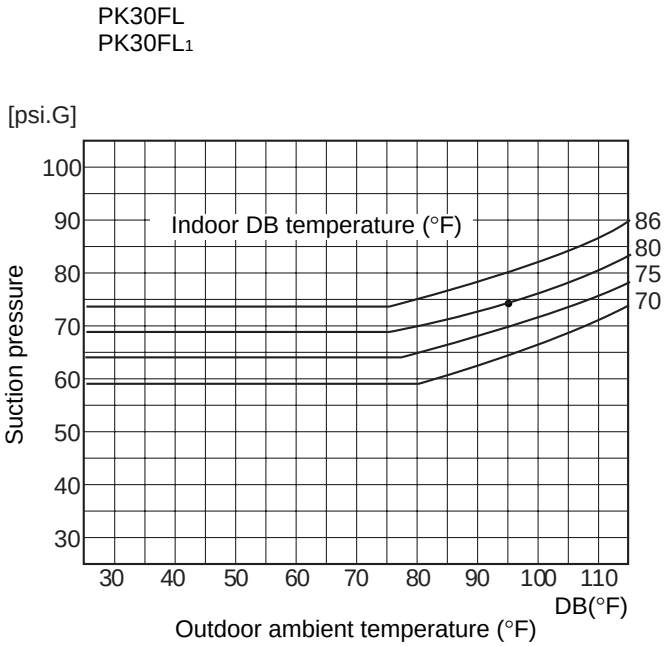




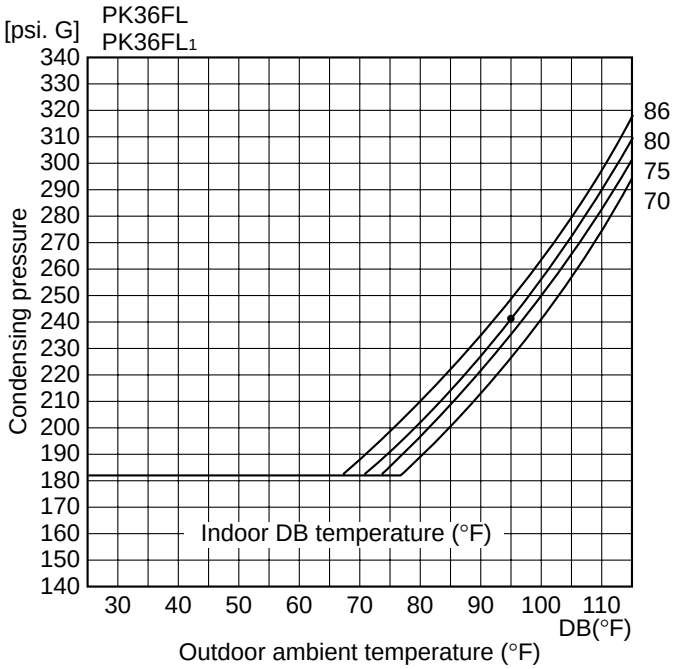
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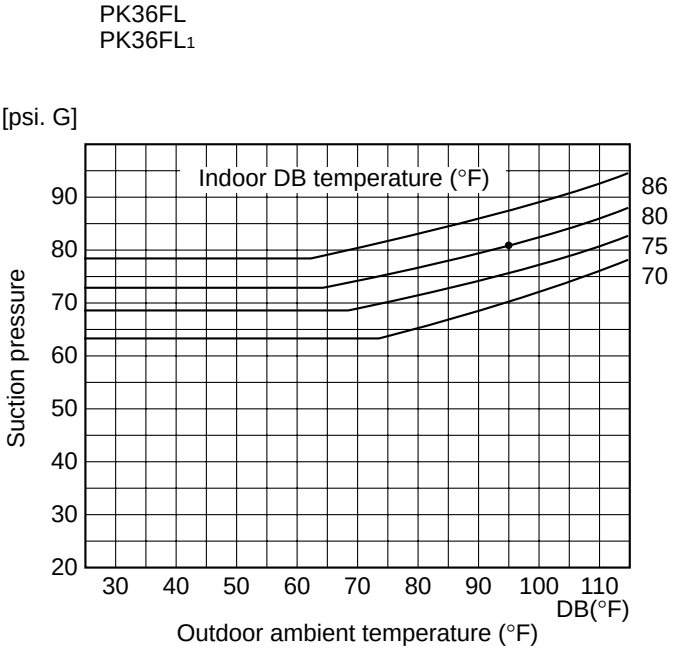
<Cooling mode>





<Cooling mode>





3. STANDARD OPERATION DATA

Model				PK18FL, PK18FL1	PK24FL, PK24FL1	PK30FL, PK30FL1	PK36FL, PK36FL1
Item			Unit	Cooling	Cooling	Cooling	Cooling
Total	Capacity		Btu / h	18,500	24,000	30,000	34,200
	SHF		—	0.82	0.72	0.75	0.71
	Input		kW	1.75	2.34	3.06	3.47
Electrical circuit	INDOOR UNIT MODEL			PK18FL, PK18FL1	PK24FL, PK24FL1	PK30FL, PK30FL1	PK36FL, PK36FL1
	Power supply (V, phase, Hz)			115, 1, 60	115, 1, 60	115, 1, 60	115, 1, 60
	Input		kW	0.09	0.09	0.12	0.12
	Fan current		A	0.7	0.7	1.0	1.0
	OUTDOOR UNIT MODEL			PU18EK1	PU24EK1	PU30EK1	PU36EK1
	Power supply (V, phase, Hz)			208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Input		kW	1.66	2.25	2.94	3.35
	Comp. current		A	12.0	11.5	14.0	17.5
	Fan current		A	0.75	0.65+0.65	0.65+0.65	0.75+0.75
Refrigerant circuit	Condensing pressure		psi-G	255	240	247	247
	Suction pressure		psi-G	82	74	77	73
	Discharge temp.		˚F	171	155	163	163
	Condensing temp.		˚F	118	114	116	116
	Suction temp.		˚F	51	44	46	43
	Ref. pipe length		ft	25	25	25	25
Indoor side	Intake air temperature	DB	˚F	80	80	80	80
		WB	˚F	67	67	67	67
	Discharge air temperature	DB	˚F	61	58	59	58
		WB	˚F	59	56	58	56
	Fan speed (High)		rpm	1,300	1,300	1,380	1,380
	Airflow (High)		CFM	710	710	990	990
Outdoor side	Intake air temperature	DB	˚F	95	95	95	95
		WB	˚F	75	75	75	75
	Fan speed upper / lower		rpm	790	750 / 750	750 / 750	760 / 760
	Airflow		CFM	1,590	3,170	3,170	3,350

4. OPERATING RANGE

1) POWER SUPPLY

	Rating	Allowable voltage
Indoor unit	115V 1 phase 60Hz	Min. 103V — Max. 127V
Outdoor unit	208/230V 1 phase 60Hz	Min. 198V — Max. 253V

2) OPERATION

Function	Intake air temperature / Condition	Indoor		Outdoor	
		D.B. (˚F)	W.B. (˚F)	D.B. (˚F)	W.B. (˚F)
Cooling	Standard temperature	80	67	95	75
	Maximum temperature	95	71	115	75
	Minimum temperature	67	57	*0	—
	Maximum humidity	80	75	80	75

*** With wind baffle D.B. 23°F if no wind baffle.**

5. OUTLET AIR SPEED AND COVERAGE RANGE

			PK18FL, PK18FL1	PK24FL, PK24FL1	PK30FL, PK30FL1	PK36FL, PK36FL1
Standard height (8.2ft)	Airflow	(CFM)	710	710	990	990
	Air speed	(ft / sec.)	16.1	16.1	17.7	17.7
	Coverage range	(ft)	41	41	50	50

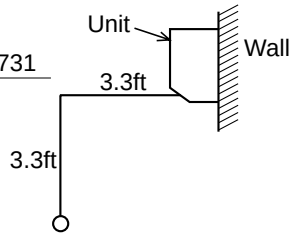
● The air coverage range is the value up to the position where the air speed is 0.8ft/sec. when air is blown out horizontally from the unit at the High fan setting.
The coverage range should be used only as a general guideline since it varies according to the size of the room and furniture installed inside the room.

6. ADDITIONAL REFRIGERANT CHARGE (R22 (OZ))

Model	Outdoor unit precharged (up to 100ft)	Refrigerant piping length (over way)									
		25ft	40ft	55ft	70ft	85ft	100ft	115ft	130ft	150ft	164ft
PK18FL,PK18FL1	5 lbs 8 oz	0	0	0	0	0	0	2	4	—	—
PK24FL,PK24FL1	9 lbs 15 oz	0	0	0	0	0	0	2	4	7	9
PK30FL,PK30FL1	10 lbs 2 oz	0	0	0	0	0	0	5	10	16	20
PK36FL,PK36FL1	10 lbs 9 oz	0	0	0	0	0	0	5	10	16	20

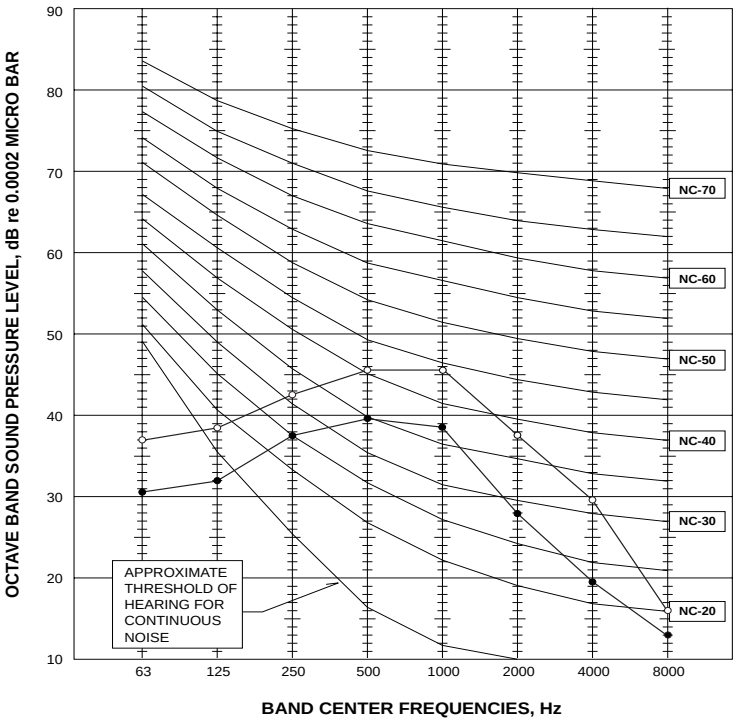
7. NOISE CRITERION CURVES

Ambient temperature 80˚F
Test conditions are based on JIS Z8731



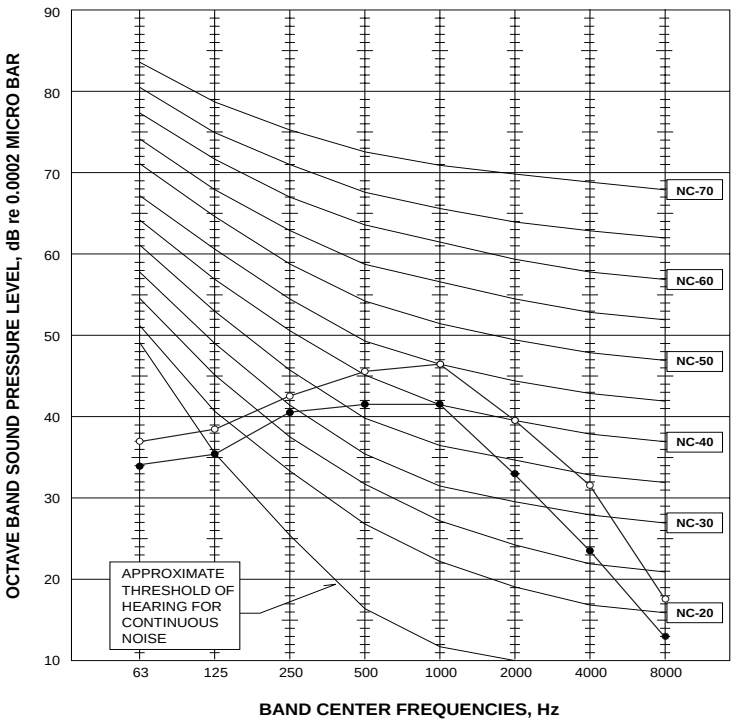
PK18/24FL
PK18/24FL$_1$

NOTCH	SPL(dB)	LINE
Hi	48	
Lo	41	



PK30/36FL
PK30/36FL$_1$

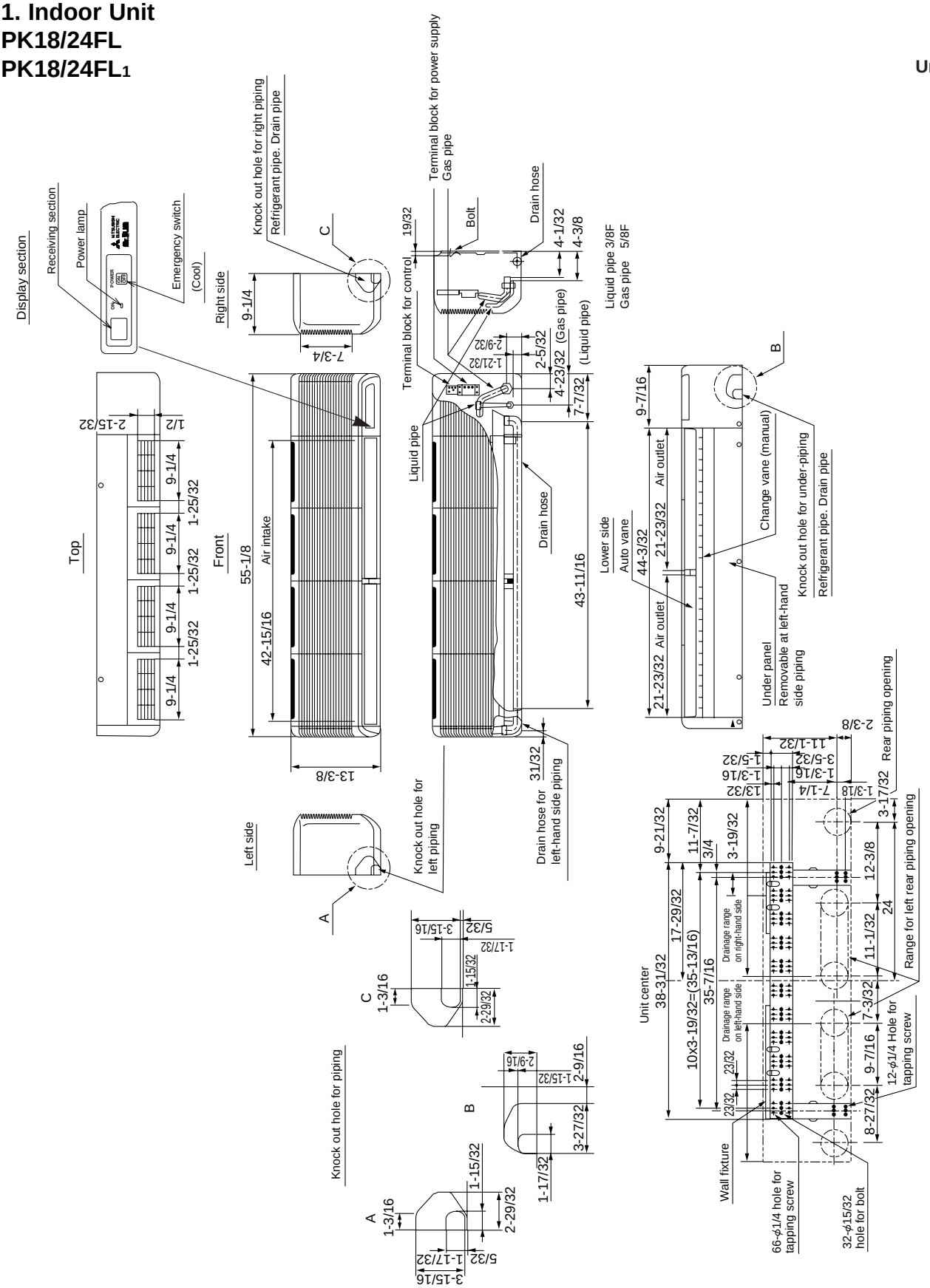
NOTCH	SPL(dB)	LINE
Hi	49	
Lo	44	



6 OUTLINES AND DIMENSIONS

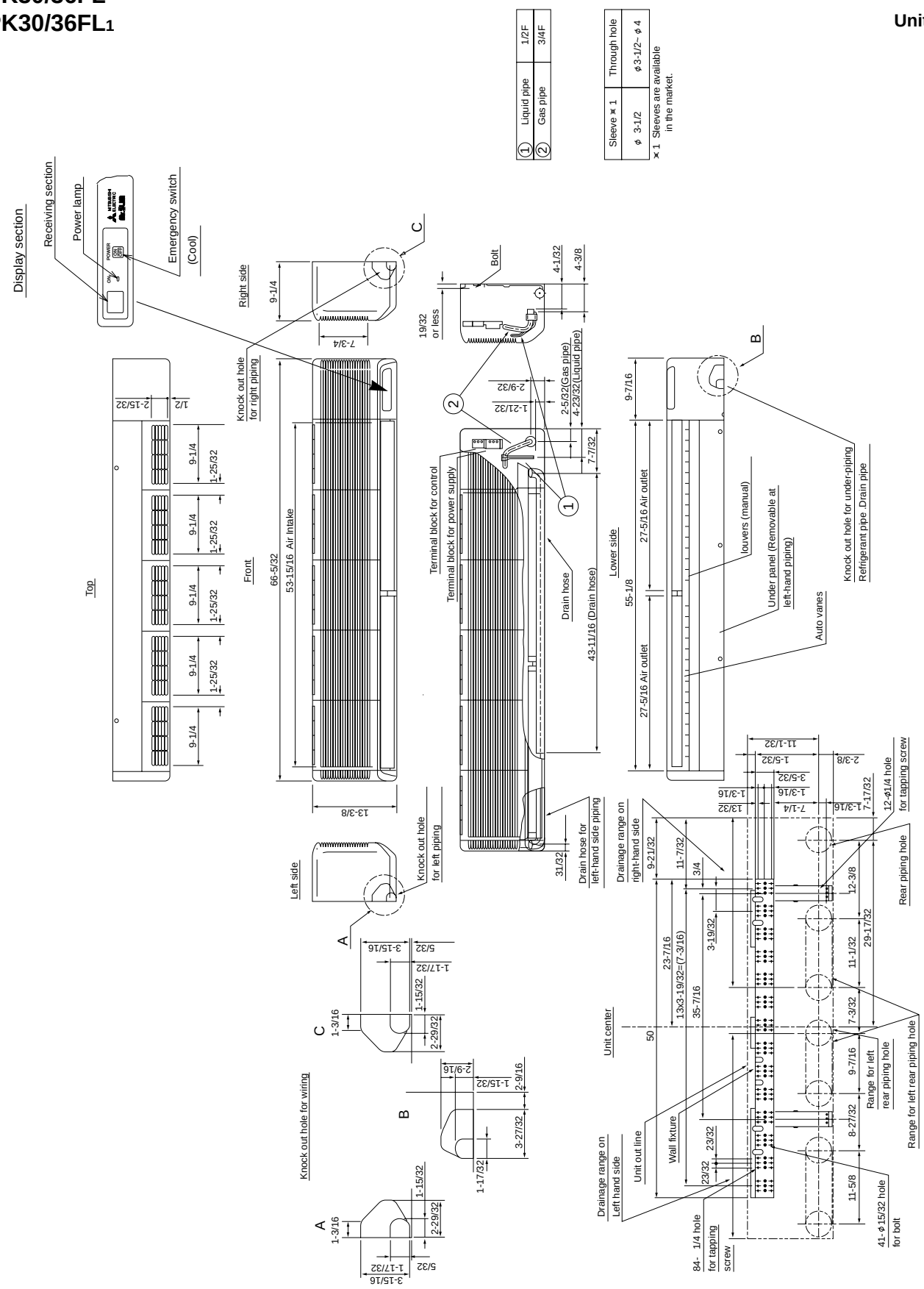
1. Indoor Unit
PK18/24FL
PK18/24FL1

Unit : inch



PK30/36FL
PK30/36FL1

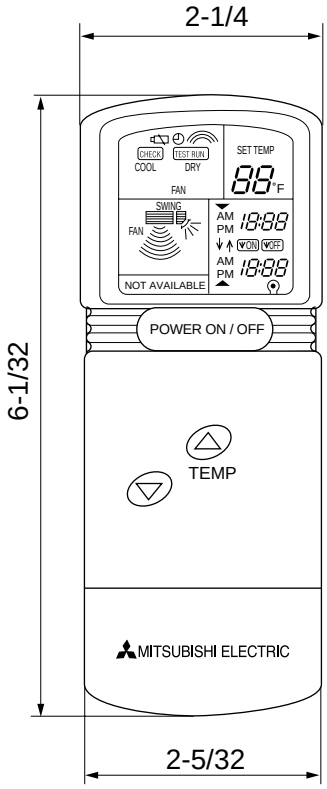
Unit : inch

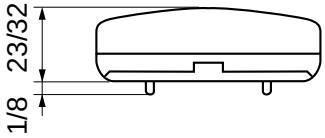


2. Remote controller

Unit : inch

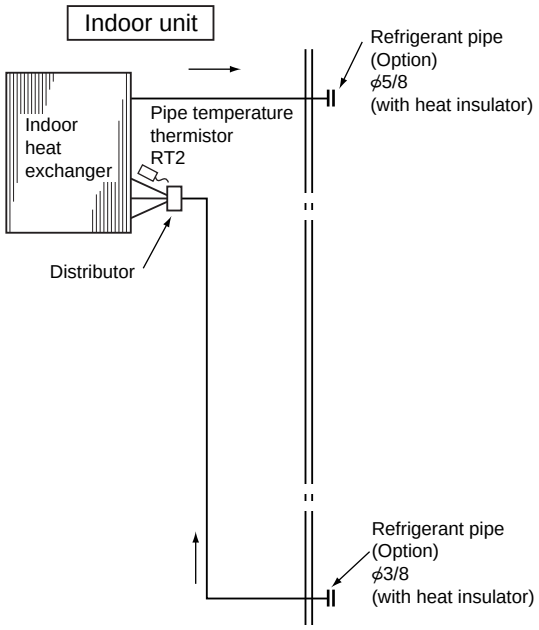
WIRELESS REMOTE CONTROLLER



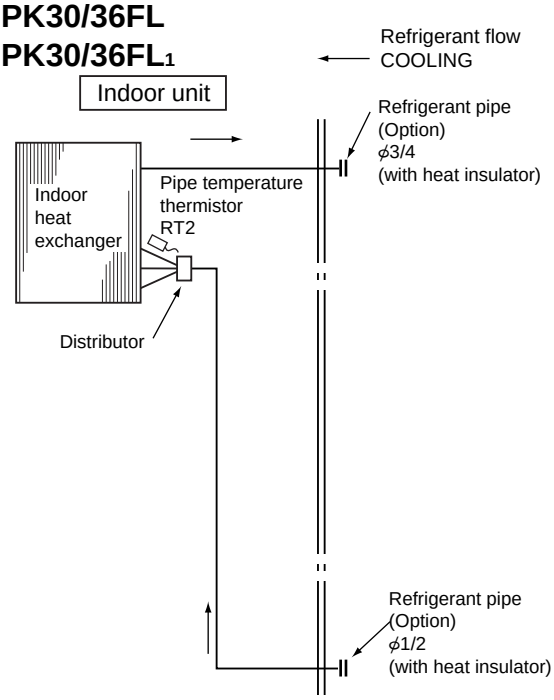


7 REFRIGERANT SYSTEM DIAGRAM

PK18/24FL
PK18/24FL1

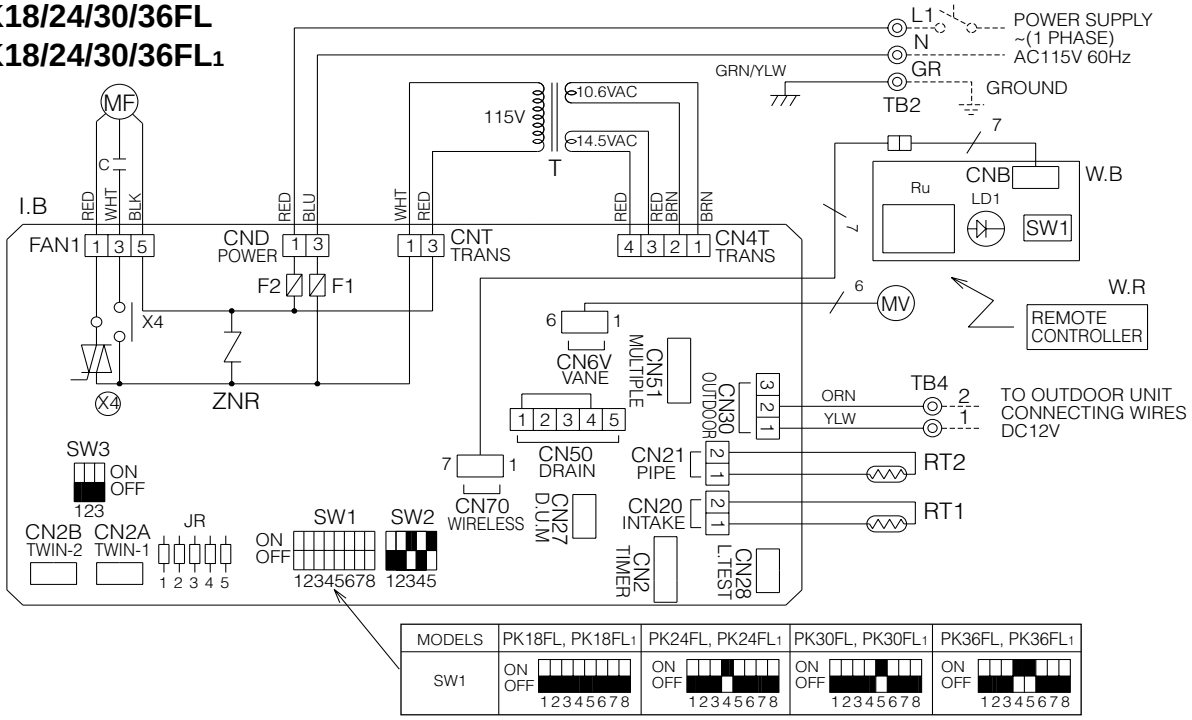


PK30/36FL
PK30/36FL1



8 WIRING DIAGRAM

Indoor Unit
PK18/24/30/36FL
PK18/24/30/36FL1



SYMBOL	NAME	SYMBOL	NAME
C	FAN MOTOR CAPACITOR	RT2	PIPE TEMPERATURE THERMISTOR (32° F/15KΩ, 77° F/5.4KΩ DETECT)
CN2<I.B>	TIMER ADAPTOR CONNECTOR		
CN2A<I.B>	TRANSMISSION WIRES No.1 CONNECTOR	Ru<W,B>	RECEIVING UNIT
CN2B<I.B>	TRANSMISSION WIRES No.2 CONNECTOR	SW1<I.B>	FUNCTION SELECTOR SWITCH
CN27<I.B>	DRAIN LIFT-UP MECHANISM	SW2<I.B>	UNIT SELECTOR SWITCH
CN28<I.B>	TIME SHORTENING CONNECTOR	SW3<I.B>	EMERGENCY OPERATION SWITCH
CN51<I.B>	MULTIPLE CONNECTOR	SW1<W.B>	ON/OFF SWITCH
F1, 2<I.B>	FUSE(6A 250V)	T	TRANSFORMER
I.B	INDOOR CONTROLLER BOARD	TB2	TERMINAL BLOCK(POWER SUPPLY)
JR	JUMPER RESISTORS (FUNCTION SELECTOR)	TB4	TERMINAL BLOCK(INDOOR/OUTDOOR CONNECTING WIRE)
LD1<W.B>	LED(RUN INDICATOR)	X4<I.B>	FAN MOTOR RELAY
MF	FAN MOTOR	ZNR	VARISTOR
MV	VANE MOTOR	W.B	WIRELESS REMOTE CONTROLLER BOARD
RT1	ROOM TEMPERATURE THERMISTOR (32° F/15KΩ, 77° F/5.4KΩ DETECT)	W.R	WIRELESS REMOTE CONTROLLER

NOTES:

1.Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
2.Symbols used in wiring diagram above are, ☐☐ :Connector, ◎ :Terminal block.
3.Emergency operation
If remote controller or microcomputer fails but there is no other trouble, emergency operation is possible by setting dip switch (SW3<I.B>) on the indoor controller board.

[Check items]

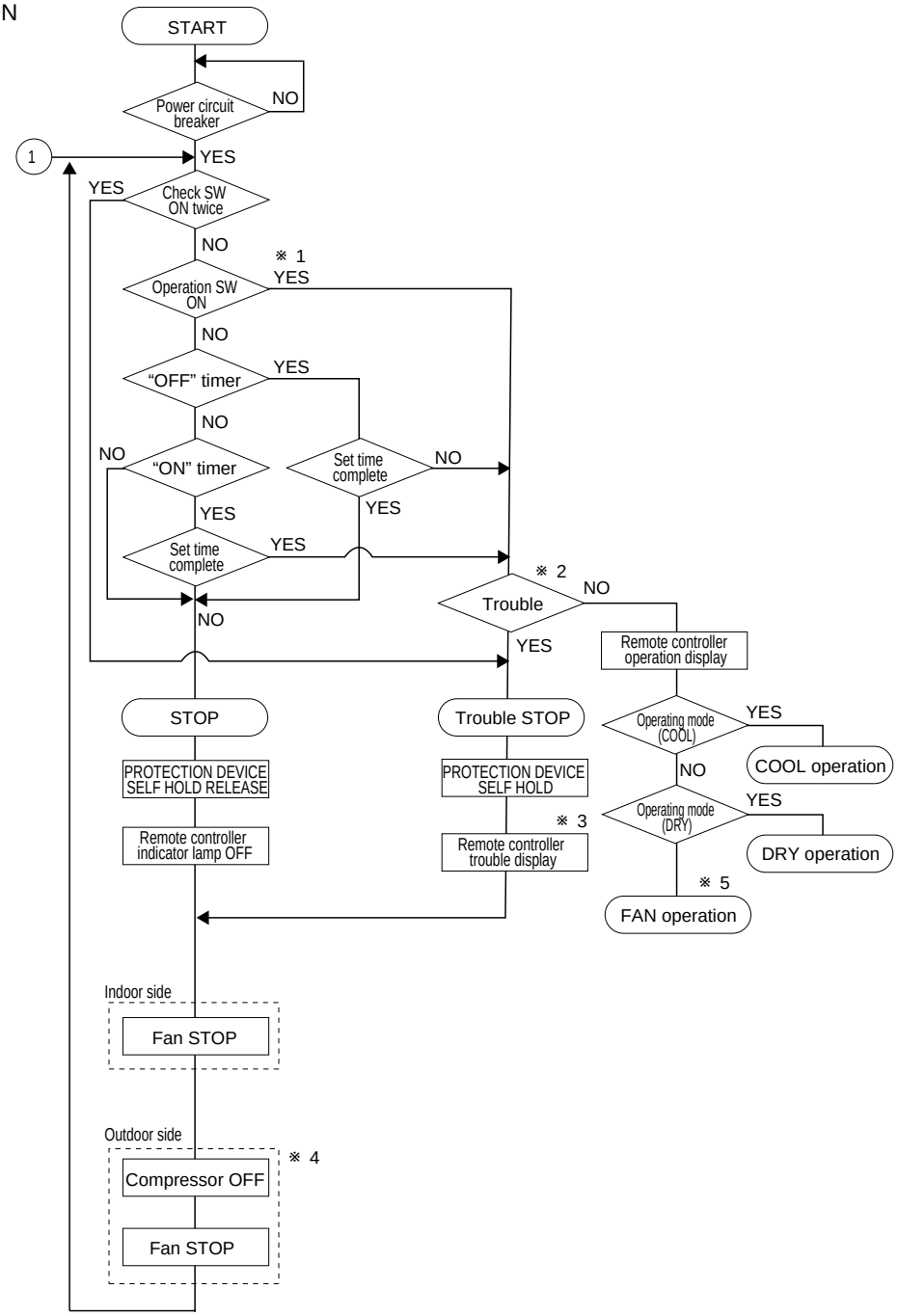
(1)Compressor and fan.
(2)Check the trouble position using self diagnostic function.
If the result of self diagnosis indicates protective device such as freeze protection is functioning emergency operation is not possible unless the cause is removed.
Emergency operation will be continuous operation mode due to power ON/OFF (ON/OFF with remote controller is not possible).

[Emergency operation procedure]

(1)Set the dip switch (SW3<I.B>) on the indoor controller board to 1 - 2 on and 3 off for cooling.
(2)Turn on outdoor unit side circuit breaker then indoor unit side circuit breaker, in this order.
(3)During emergency operation indoor fan runs at high speed but automatic vane remains stop.
If vane is closed open the vane by hands.
(4)Thermostat will not function
(5)Emergency cooling should be limited to 10 hours maximum (The indoor unit heat exchanger may freeze).

9 OPERATION FLOW-CHART

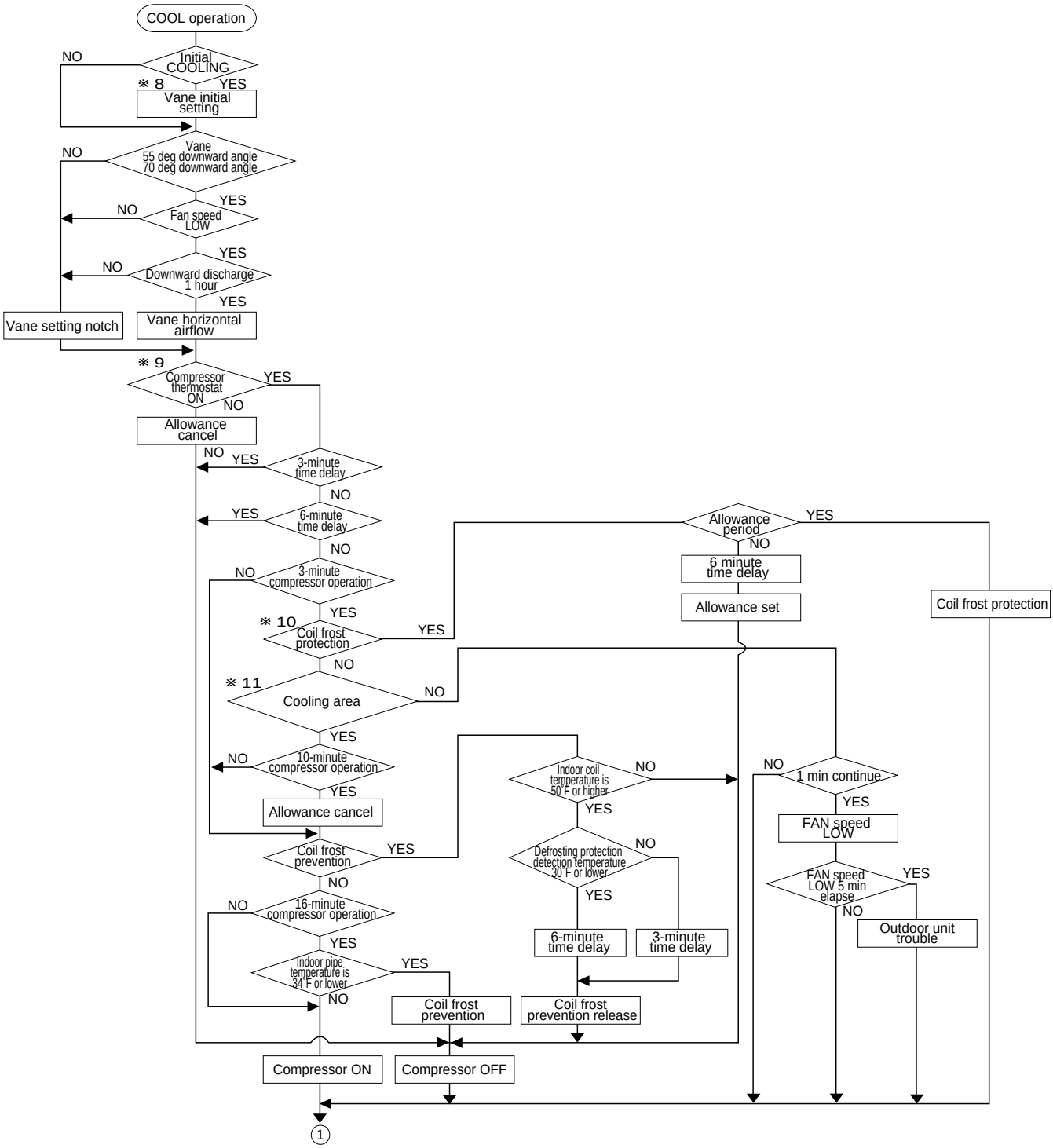
MAIN OPERATION



※1 In addition, the centralised control and remote control can be operated.
※2 The modes which indicate the sources of trouble are listed below.
- EO-Signal transmitting/receiving error
- P1-Room temperature thermistor malfunction
- P2-Indoor coil thermistor malfunction
- P4-Drain sensor malfunction
- P5-Drain overflow
- P6-Coil frost/overheat protection
- P7-System error
- P8-Outdoor unit trouble

※3 The CHECK switch will show if an error has occurred in the past.
※4 The 3-minute time-delay functions after compressor stops.
※5 In FAN mode, fan speed and vane operation depend on the remote controller setting. (Compressor is OFF.)

COOLING OPERATION



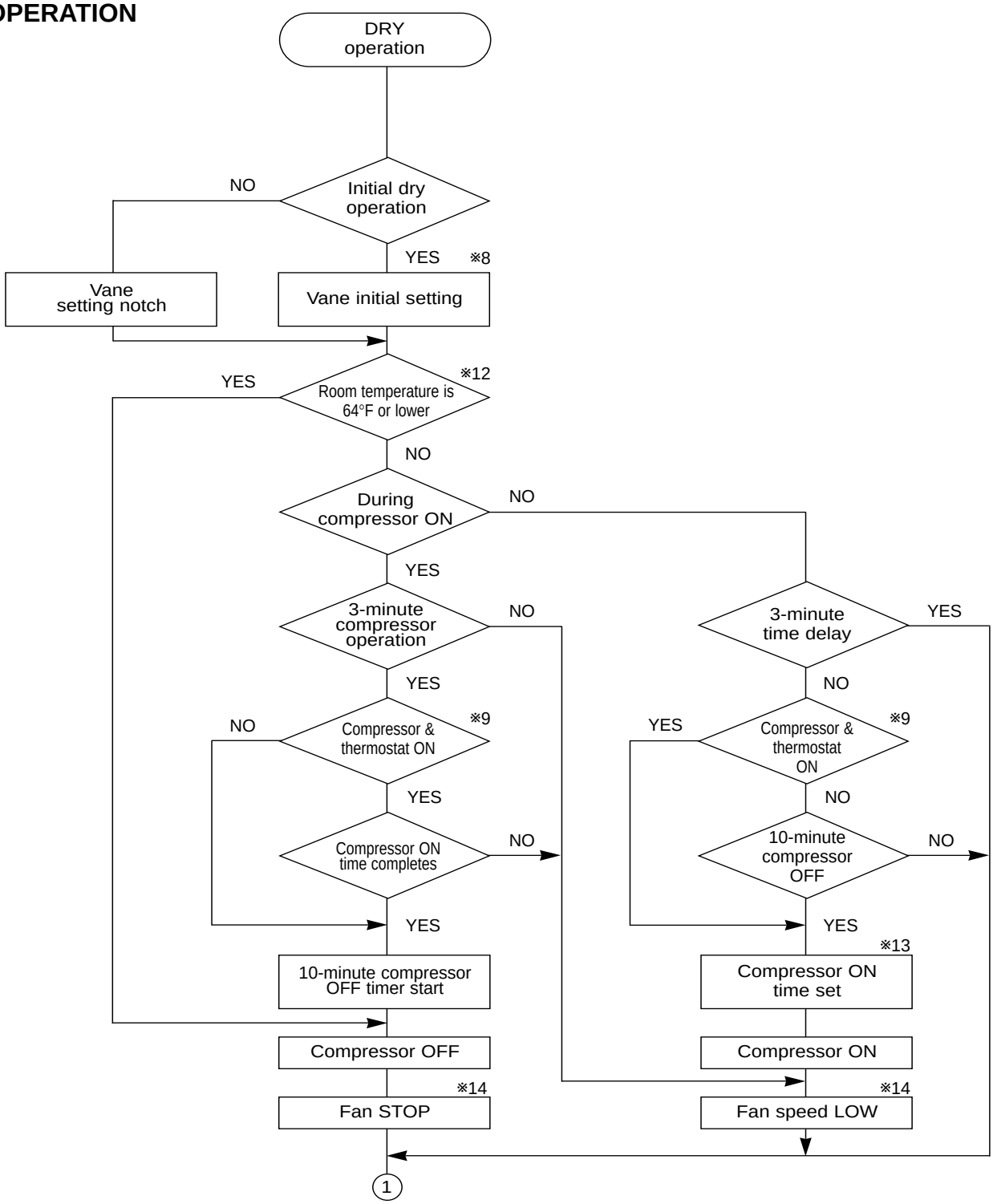
※8 When operation stops or changes to cooling or dry mode, the auto vane turns to a horizontal angle. If operation changes during auto vane SWING, the auto vane will continue to swing.

※9 When operating TEST RUN, the thermostat will be continuously ON.

※10After 3 minute compressor operation, if the indoor coil thermistor reads 5°F or below for 3 minutes, the compressor will stop for 6 minutes.

※11Heating area : Indoor coil temperature is more than 9 degrees above the room temperature.
Cooling area : Indoor coil temperature is more than 9 degrees below the room temperature.
FAN area : Indoor coil temperature is within 9 degrees either way of the room temperature.

DRY OPERATION



※8—9 Refer to page OC185A-17.

※12 When room temperature is 64°F or below, the compressor cannot operate.
When room temperature rises over 64°F the compressor starts after a 3-minute time delay.

※13 Compressor ON time is decided by room temperature. Refer to page OC185A-22.

※14 In dry operation, compressor ON makes the fan speed LOW. Also, when the compressor OFF and the pipe temperature is 79°F or less, the fan stops, or when the compressor OFF and the pipe temperature is below 43°F the fan speed changes to LOW mode.
It is not possible to set the fan speed with the remote controller

10 MICROPROCESSOR CONTROL

1. OUTLINE OF MICROPROCESSOR CONTROL

INPUT to remote controller

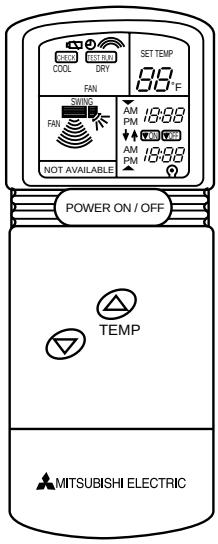
- OFF-ON switching.
- COOL • DRY • FAN selector switching.
- HIGH-LOW fan speed switching.
- TIMER mode selector-switching
- Timer setting.
- Self diagnostic troubleshooting.
- TEST RUN switching.
- CHECK mode switching.
- AUTO Vane setting.

REMOTE CONTROLLER

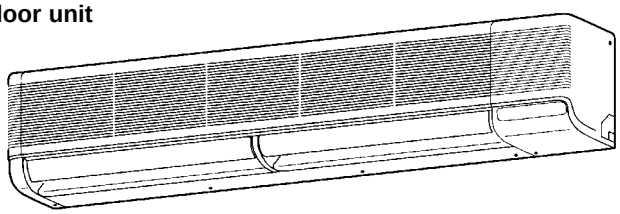
- Processes and transmits orders.

OUTPUT to remote controller

- Indication LCD lights.



Indoor unit



INPUT from indoor unit

- Room temperature thermistor.
- Indoor coil thermistor.

INDOOR CONTROLLER BOARD

- Receives orders from remote controller and temperature data from indoor unit.
- Processes orders and data.
- Controls indoor and outdoor operation.
- Self diagnostic function

※ System control operation.<Optional>
※ Emergency operation

OUTPUT to indoor unit

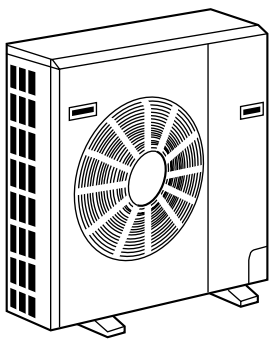
- Fan: ON-OFF.
- Fan speed: HIGH-LOW.
- AUTO vane's angle setting.
- Emergency stop.

Polar, two (2) - core cable

12VDC

Independent Control of Outdoor Unit

Outdoor unit



INPUT from outdoor unit

- Compressor protection device working.

OUTDOOR CONTROLLER BOARD

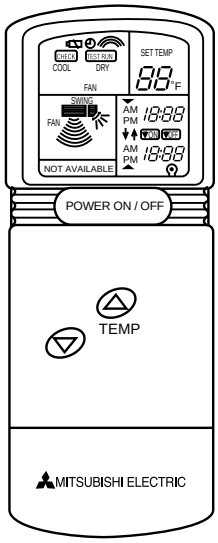
- Receives orders from indoor controller.
- Emergency stop.

OUTPUT to outdoor unit

- Compressor motor and outdoor fan motor : ON-OFF.

2. INDOOR UNIT CONTROL

2-1COOL operation



<How to operate>

① Press POWER ON/OFF button.

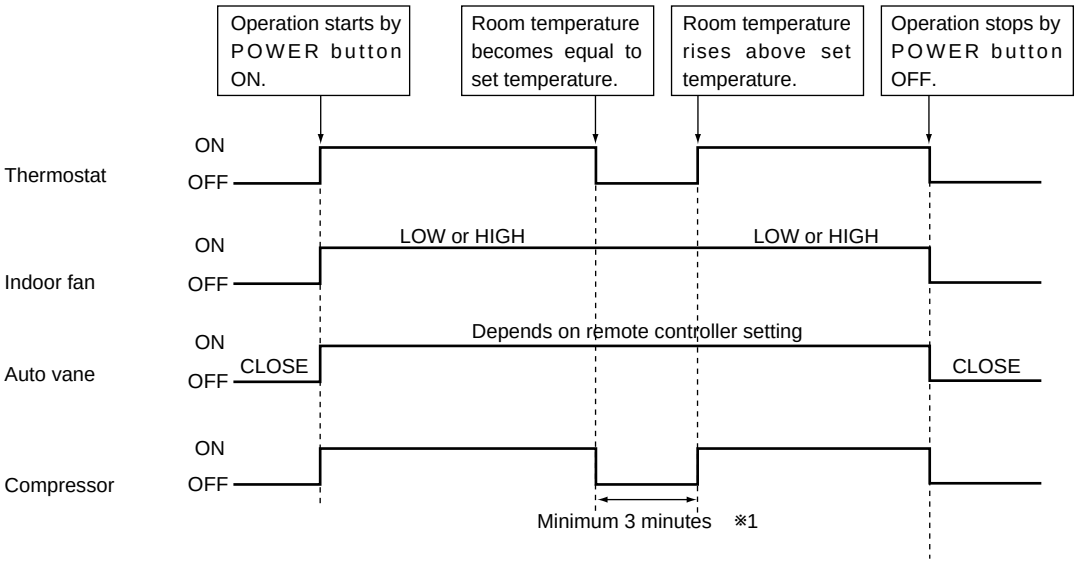
② Press MODE button to set operation mode to COOL.

③ Set desired temperature with ▲ or ▼ button.

NOTE: 1. Set temperature changes by 2 °F in the range 65~87 °F each TEMP ▲ or ▼ button is pressed.

2. Set temperature is displayed on the LCD.

<COOL operation time chart>



※1 Even if the room temperature rise above the set temperature during this period, the compressor will not start until this period has ended.

(1) Compressor control

① 3-minute time delay
To prevent overload, the compressor will not start within 3 minutes after stop.

② The compressor runs when room temperature is higher than set temperature.
The compressor stops when room temperature is equal to or lower than the set temperature.
The compressor maintains the previous state when the room temperature minus the set temperature is 0 degrees or more, or lower than 2 degrees.

③ The compressor stops in check mode or during protective functions.

④ Coil frost prevention
To prevent indoor coil frost, the compressor will stop when the indoor coil thermistor (RT2) reads 34°F or below after the compressor has been continuously operated for at least 16 minutes or more. When the indoor coil temperature rises to 50°F or above, the compressor will start in a 3-minute(※2) time delay.
※2 When the indoor coil temperature is 30°F or less, the compressor starts in 6 minutes.

NOTE : By cutting the jumper wire JR2 on indoor controller board, the start temperature of coil frost prevention changes from 34°F to 36°F.

⑤ Coil freeze protection

When the indoor coil temperature becomes - 5°F or below, coil freeze protection will proceed as follows.

<Start condition>

After the compressor has been continuously operated for 3 minutes or more, and the indoor coil temperature has been - 5°F or below for 3 minutes, the coil frost protection will start.

<Coil frost protection>

Compressor stops for 6 minutes, and then restarts.

If the start condition is satisfied again during the first 10 minutes of compressor operation, both the indoor and outdoor units stop, and the remote controller displays this occurrence.

<Termination conditions>

Coil frost protection released when the start condition is not satisfied again during the allowance, or when the COOL mode stops changes another mode.

(2)Indoor fan control

Indoor fan speed depends on the remote controller setting.

However, if an outdoor unit abnormality is detected, the indoor fan speed will be LOW, regardless of the remote controller setting.

(3)Auto vane control

Auto vane position depends on the remote controller setting.

(4)Detecting abnormalities in the outdoor unit

After the compressor has been continuously operated for 3 minutes, if the difference between the indoor coil temperature and the room temperature is out of RANGE C for 1 minute, the indoor fan speed will turn to LOW. Five minutes later, if the difference is still out of RANGE C, the outdoor unit is functioning abnormally. Thus, the compressor will stop and the remote controller will display this occurrence.

RANGE A : Indoor coil temperature is more than 9 degrees above room temperature.

RANGE B : Indoor coil temperature is within 9 degrees either way of room temperature.

RANGE C : Indoor coil temperature is more than 9 degrees below room temperature.

(5)AUTO VANE CONTROL

① Frequency judgement

When the unit operates for the first time after the circuit breaker turned to ON, the frequency, 60Hz, is judged by the horizontally sensing switch. If The frequency cannot be judged immediately for some reason, the sensing operation continues for 3 minutes with the vane motor at ON.

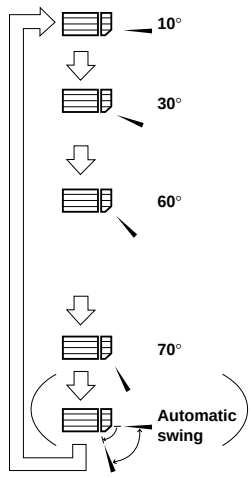
If the frequency cannot be judged yet after 3-minute sensing, the vane motor turns to OFF. But the AIR DISCHARGE DIRECTION display continues to be indicated.

② During cooling operation

When the cooling operation starts, the vane is automatically set to the horizontal However, the desired direction among four below-listed can be selected with the vane button on the remote controller.

a) 10°
b) 30° downward
c) 60° downward
d) 70° downward
e) Automatic swing

<Remote controller display>



Changes by pressing the Vane button

NOTE : 30° is available only when the fan speed is HIGH.

<AUTO RETURN>

When discharge 60° or 70° continues for 1 hour with the fan speed at LOW, the discharge direction turns to the horizontal discharge automatically.

NOTE1 : After that, 60° or 70° is available by setting with the remote controller, and it continues for 1 hour.

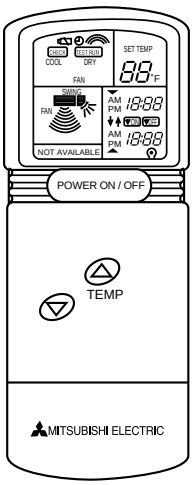
NOTE2 : If the discharge direction changes from 60° or 70° , the direction returns to the horizontal discharge when 1 hour has passed since the discharge 60° started.

NOTE3 : If the discharge direction changes from 60° (or 70°) to the horizontal discharge, the 1-hour timer to return the horizontal discharge is cancelled.

③ During the operation OFF, the auto vane is in the airflow shut-off position.

④ When the vane motor is out of order or the connector is badly connected, the remote controller display of the remote controller does not change.

2-2 DRY operation



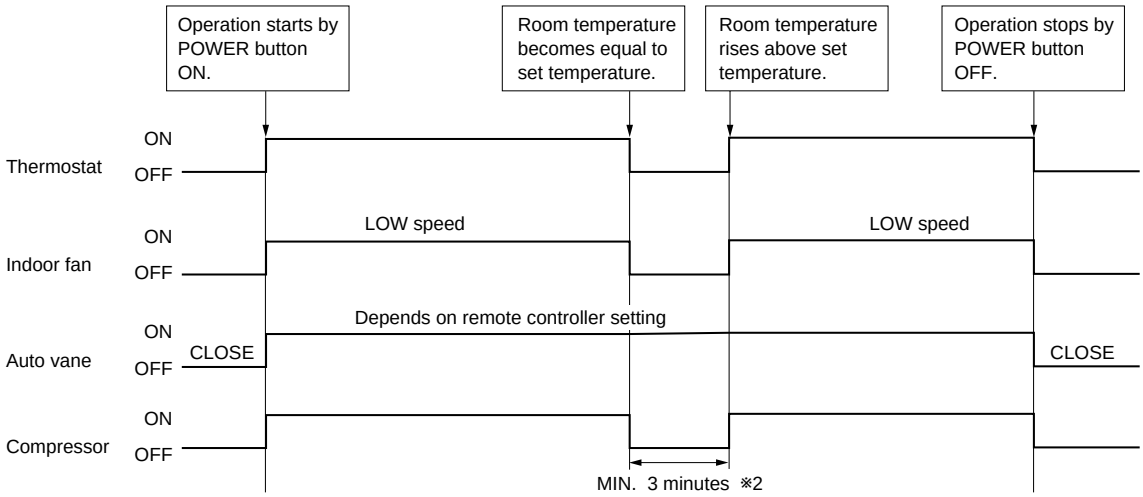
<How to operate>

① Press POWER ON/OFF button.

② Press MODE button to set operation mode to DRY.

③ Set desired temperature with ▲ or ▼ button.

NOTE: 1. Set temperature changes by 2 °F in the range 65~87 °F each TEMP ▲ or ▼ button is pressed.
2. Set temperature is displayed on the LCD.



※2 Even if the room temperature rises above the set temperature during this period, the compressor will not start until this period has ended.

(1)Compressor control

① 3-minute time delay
To prevent overload, the compressor will not start within 3 minutes after stop.

② The compressor runs when the room temperature is higher than the set temperature.
The compressor stops when the room temperature is equal to or lower than the set temperature.

③ The compressor stops in check mode or during protective functions.

④ The compressor will not start when the room temperature is below 63 °F. The compressor starts intermittent operation when the power is turned ON with room temperature above 63 °F. The compressor ON/OFF time depends on the thermostat ON/OFF and the room temperature as follows.
After 3-minute compressor operation,
- If the room temperature thermistor reads above 83 °F with thermostat ON, the compressor will operate for 6 more minutes and then stop for 3 minutes.
- If the room temperature thermistor reads 79 °F to 83 °F with thermostat 0N, the compressor will operate for 4 more minutes and then stop for 3 minutes.
- If the room temperature thermistor reads 75 °F to 79 °F with thermostat ON, the compressor will operate for 2 more minutes and then stop for 3 minutes.
- If the room temperature thermistor reads below 75 °F with thermostat ON, the compressor will stop for 3 minutes.
- If the thermostat is OFF, regardless of room temperature, the compressor will stop for 10 minutes.

⑤ Coil frost protection
Coil frost protection in DRY operation is the same as in COOL operation.

⑥ Coil freeze prevention
Coil freeze prevention does not operate in DRY operation.

(2) Indoor fan control

The indoor fan runs on LOW speed during compressor operation. The fan speed cannot be changed with the remote controller.

Also, the indoor fan does not run during compressor OFF.

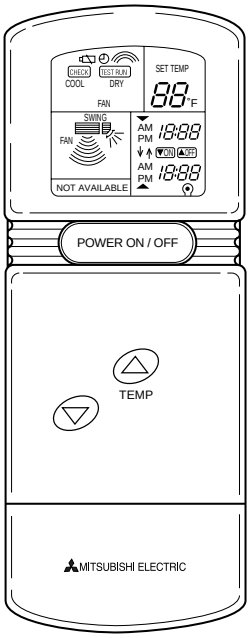
(3)Auto vane control

Same as in COOL operation.

(4)Detecting abnormalities in the outdoor unit

An abnormality in the outdoor unit can not be detected in DRY operation.

2-3 FAN operation



<How to operate>

① Press POWER ON/OFF button.

② Press MODE button to set operation mode to Fan.

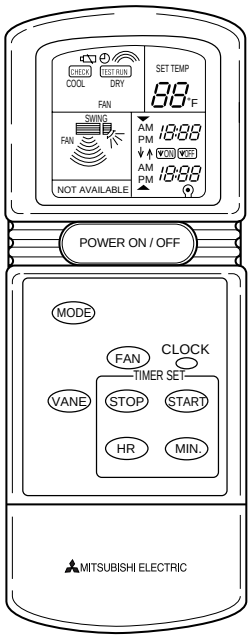
(1) Indoor fan control

The indoor fan speed depends on the remote controller setting.

(2) Auto vane control

The auto vane position depends on the remote controller setting.

2-4 TIMER operation



<How to operate>

① Push POWER ON/OFF button.

② Check if or not the current time is correct.

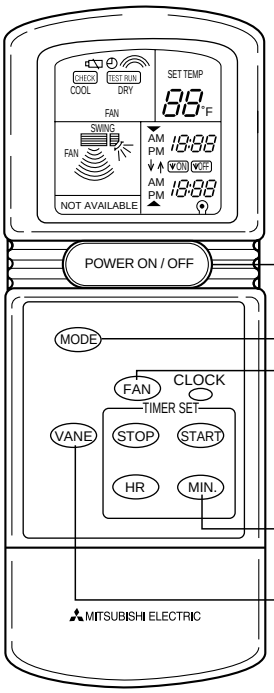
③ Push the (STOP) or (START) button and select the desired time.

④ Set the timer time using HR and MIN buttons.

2-5 Test run

(1) Turn on the main power of unit.

(2) Turn the adjusting switch on the back of the wireless remote controller to “SET” (CHECK) and (TEST RUN) will start flashing.



★(3) Push the (MIN) button (TEST RUN) and the operating mode will be displayed (Refer to the illustrated sample display at left)

★(4) Push the (MODE) button, change the mode to “FAN” and make sure that there will be blowout of air.

★(5) Push the MODE button, change the mode to COOL and make sure that there will be blowout of cool air.

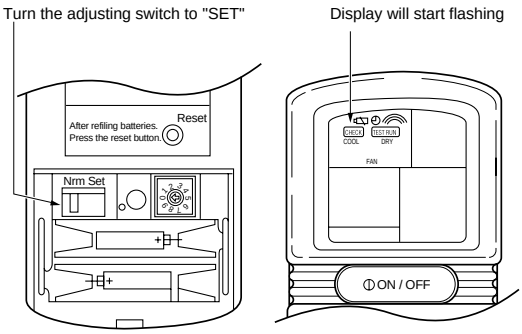
★(6) Push the (FAN) button and make sure that there will be HIGH (or LOW) discharge of air.

★(7) Push the (VANE) button and make sure the operation of the auto vane.

★(8) Push the POWER ON/OFF button and cancel the test run.

(9) After completing a test run, be sure to turn the adjusting switch back to “Nrm”.

Wireless remote controller with backside battery cover removed Display will start finishing.



★ For operations marked , point the transmitter to the wireless receiver, and make sure that you will hear a short beep from the receiver.

- The test run automatically stops in 2 hours.
- Set temperature is not displayed during test run.

2-6 Emergency operation

When the remote controller or microprocessor malfunctions and no other trouble exists, emergency operation is available by setting the dip switch on the controller board.

[Check items]

(1) Make sure the compressor and the fans are running normally.

(2) Locate the trouble with the self-diagnostic function. If the self-diagnostic function indicates that the protection device (such as coil frost protection) is functioning, the sources must be removed before attempting emergency operation.
Emergency operation ON/OFF is activated not with the remote controller but with the circuit breaker.

[Emergency operation procedure]

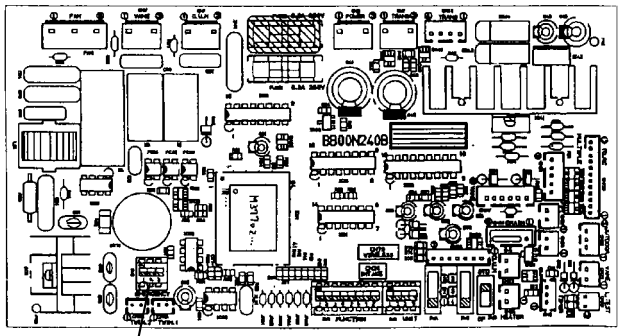
(1)Cooling operation is available by setting the dip switch SW3 ①and ② ON and ③ OFF on the indoor controller board.

(2)To start emergency operation, turn the outdoor side circuit breaker ON first, and then the indoor side circuit breaker ON.

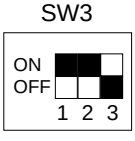
(3)During emergency operation, the indoor fan runs on HIGH speed, the compressor runs continuously, and the louver stops.

(4)Thermostat will not function.

(5)Do not use emergency cooling operation for more than 10 hours, as the indoor coil may freeze.

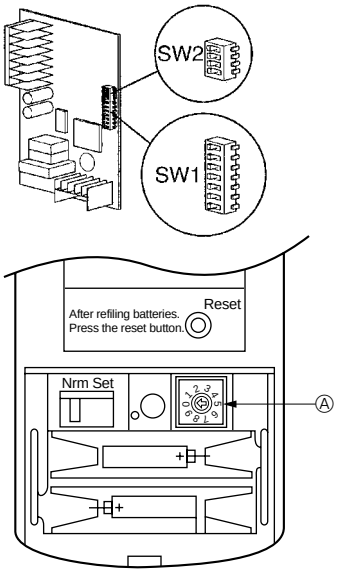


INDOOR CONTROLLER BOARD



COOLING

2-7 Wireless remote controller pair number setting operation



Switches are located on the indoor unit PC board and inside the remote controller as shown.

• Setting the SW1 (PC board inside indoor unit)
Sub-switches 7 or 8 of SW1 can be used as follows to assign a pair No.

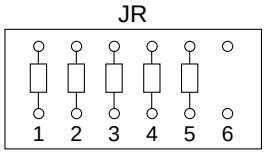
Pair Number	SW1	Pair Number	SW1
0	ON OFF 1 2 3 4 5 6 7 8	2	ON OFF 1 2 3 4 5 6 7 8
1	ON OFF 1 2 3 4 5 6 7 8	3	ON OFF 1 2 3 4 5 6 7 8

• The pair No. SW of the remote controller has been set to ‹‹0›› at the time of shipment.

Note:
Make sure that a pair number of the remote controller (shown an Ⓐ) agrees with that of the indoor unit PC board.
This is because wireless signals of indoor units are distinguished from one another when several indoor units are installed in the same room.

2-8 Function of jumper wire and dip switch on indoor controller board

1. Jumper wire



① JR1:Jumper wire for the auto vanes.
Cut JR1 for the unit WITHOUT auto vanes.

② JR2:Jumper wire for the temperature to start coil frost prevention.
Cutting JR2 changes the temperature from 34°F to 36°F.

③ JR3:Not for use.

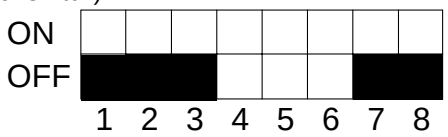
④ JR4:Not for use.

⑤ JR5:Jumper wire for detecting abnormalities in the outdoor unit.
Cutting JR5 makes this detection unavailable. (Occurrence of abnormality can not be detected.)

⑥ JR6:Jumper wire for auto restart function.
Cutting JR6 makes the auto restart function available.

2.Dip switch

① SW1 (Function selector switch)

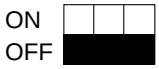
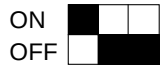
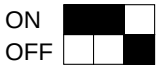


SW1-1) Switch for power supply
Not for use.(Only 115V)

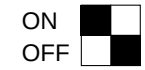
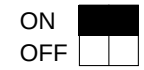
SW1-2) Not for use.

SW1-3) Not for use.

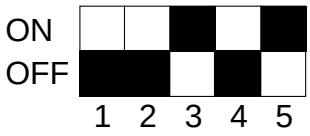
SW1-4 ~ SW1-6) Switch for capacity of each model

PK18FL, PK18FL1	PK24FL, PK24FL1	PK30FL, PK30FL1	PK36FL, PK36FL1
			

SW1-7 ~ SW1-8) Switch for the pair number of wireless remote controller

0	1	2	3
			

② SW2 (Unit selector switch)



SW2-1) Switch for air conditioner with or without electric heater
ON:Unit with electric heater
OFF:Unit without electric heater

SW2-2) Switch for air conditioner with or without heat pump
ON:Unit with heat pump
OFF:Unit without heat pump

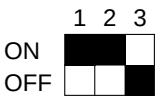
SW2-3, SW2-4, SW2-5) Switch for function code

③ SW3 (Emergency operation switch)

Normal operation



For emergency cooling



11 TROUBLESHOOTING

1. Self-diagnostic function

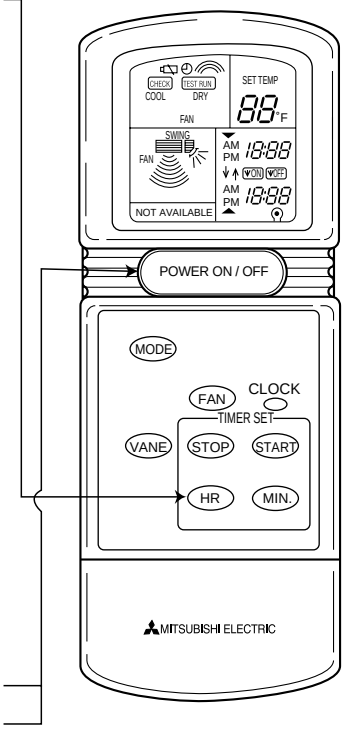
(1) Turn on the main power of the unit.
(2) Turn the adjusting switch on the back of the wireless remote controller to “SET” (CHECK) TEST RUN (TEST RUN) will start flashing.

★(3) Push the (HR) button (CHECK) will start flashing.
★(4) While pointing the transmitter to the receiver, push the (HR) button. At this point, you will hear an intermittent buzzer sound, and operating flash will show check codes.

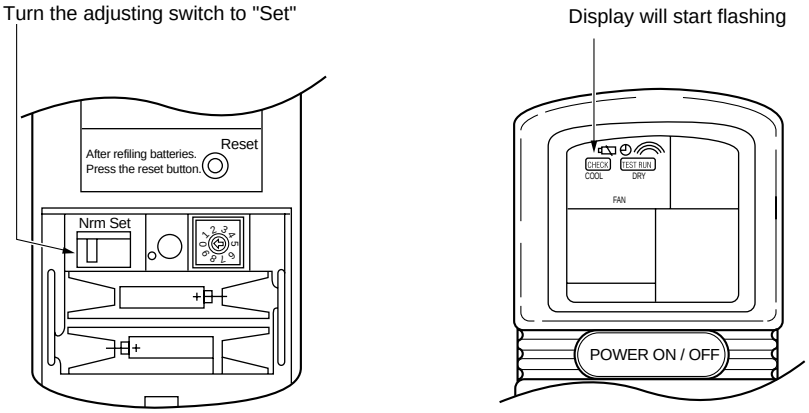
ıntermittent buzzer sound Operating lamp flashing time	Buzzer sound
1 second (0.5 second interval) Repeats as often as the number of the check code	Beep

Check code	Nature of irregularity
1	Irregular intake sensor
2	Irregular piping sensor
4	Irregular drain sensor
5	Irregular drain pump
6	Freezing protected
8	Irregular outdoor unit
9	NO irregular

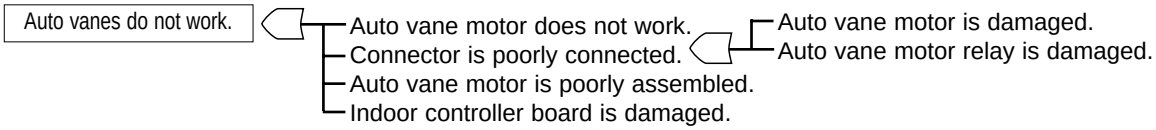
★(5) Push the POWER ON/OFF button and cancel the test run.
(6) After completing a test run, be sure to turn the adjusting switch back to “Nrm”.

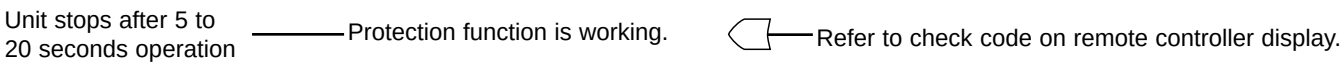


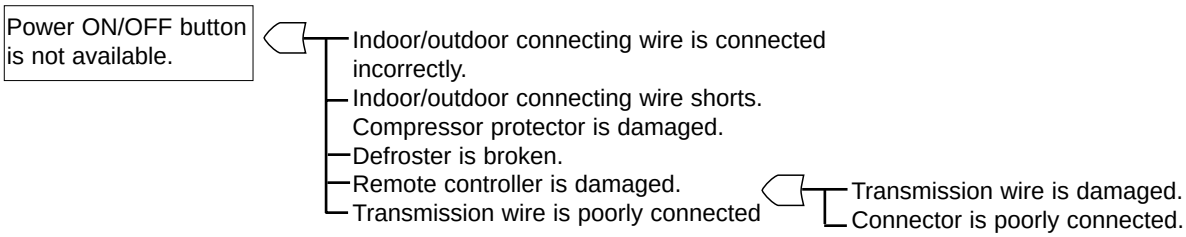
Wireless remote controller with backside battery cover removed Display will start flashing.
For operations marked*, point the transmitter to the wireless receiver, and make sure that you will hear a short beep from the receiver.



2. OTHER TROUBLES AND CAUSES





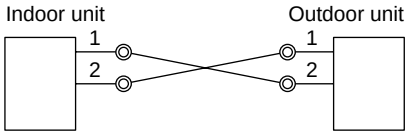


Check code	Diagnosis of malfunction	Cause	Check points
1	Abnormality of room temperature thermistor (RT1)	1) Bad contact of thermistor 2) Damaged thermistor	1) Check the thermistor. 2) Measure the resistance of the thermistor. Normal resistance should be as follows. 32°F····15kΩ 86°F·····4.3kΩ 50°F·····9.6kΩ 104°F·····3.0kΩ 68°F·····6.3kΩ If the resistance is normal, replace the indoor controller board.
2	Abnormality of indoor coil thermistor (RT2)		
4	Abnormality of drain sensor	1) Bad contact of transmission wire 2) Damaged thermistor	1) Check the connector. 2) Measure the resistance of the thermistor (between ④ - ⑤of CN50). As for the normal resistance, refer to the case of 1. If the resistance is normal, replace the indoor controller board.
5	Malfunction of drain pump	1) Malfunction of drain pump 2) Damaged drain sensor	1) Check the drain pump. 2) Check the drain sensor. Check the drain sensor heater. Normal resis tance should be 82Ω. (between ① - ③of CN50). If the resistance is normal, replace the indoor controller board.
6	Coil frost protection is working.	1) Short cycle of air cycle 2) Dirty air filter 3) Damaged fan 4) Abnormal refrigerant	1) Clear obstructions from the air cycle. 2) Clean the air filter 3) Check the fan. 4) Check the refrigerant temperature.
8	Abnormality in outdoor unit	1) Wrong wiring of indoor/outdoor connecting wire 2) Reversed phase 3) Protection device is working 4) Damaged outdoor coil thermistor	1) Check the indoor/outdoor connecting wire. 2) Change the connection of electric wiring. 3) Check the protection device. 4) Measure the resistance of the outdoor coil thermistor. If the resistance is normal, replace the outdoor controller board.

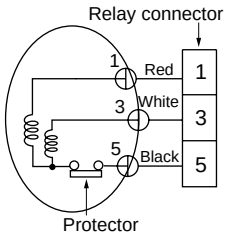
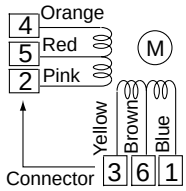
❋ The number of check code shows times of Buzzer sound.

3. WRONG WIRING ON SITE

Symptom due to wrong wiring between indoor and outdoor units

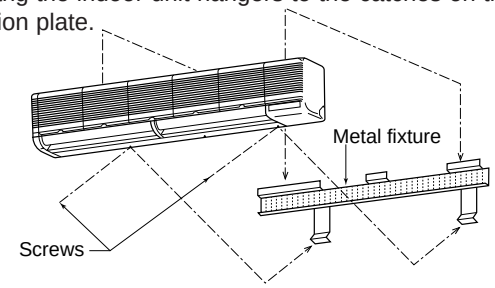
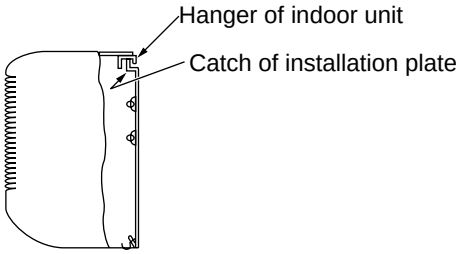
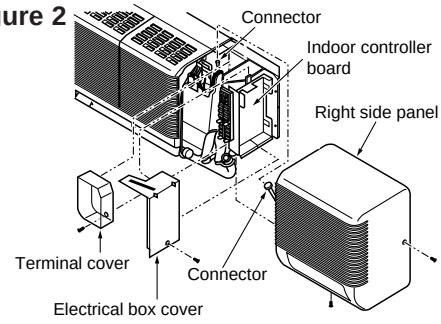
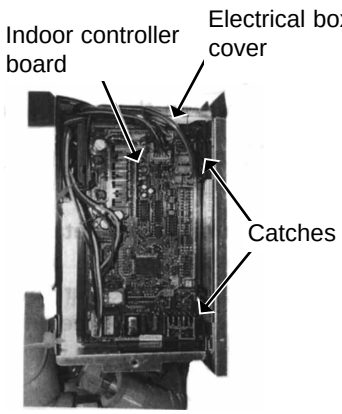
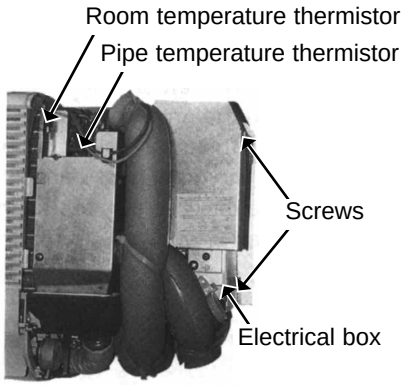
Wrong wiring	Thermostat	Phenomena
	OFF	The outdoor unit stops.
	ON	Operation stops. 9 minutes later, the check code ¨P8¨ appears on the remote controller display.
Disconnect between 1 and 1 or 2 and 2.	OFF	Operation stops.
	ON	9 minutes later, the check code ¨P8¨ appears on the remote controller display.

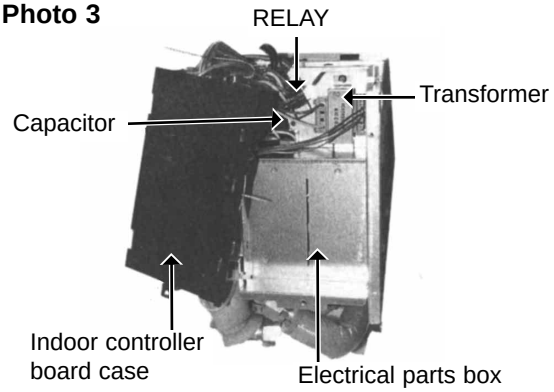
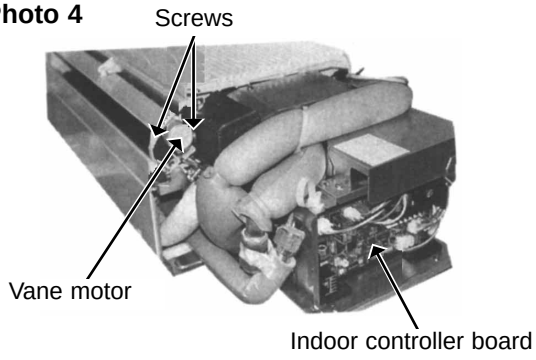
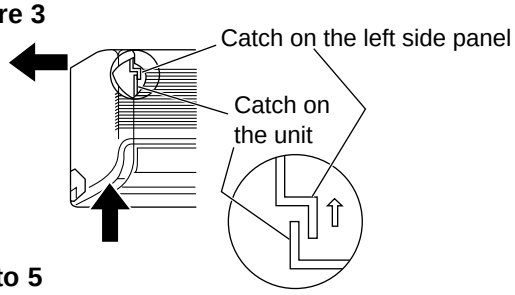
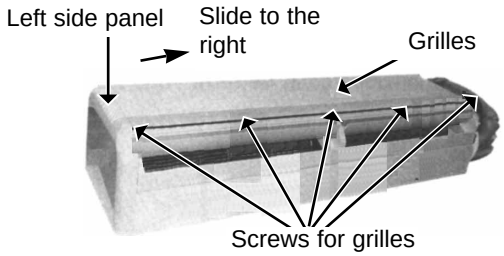
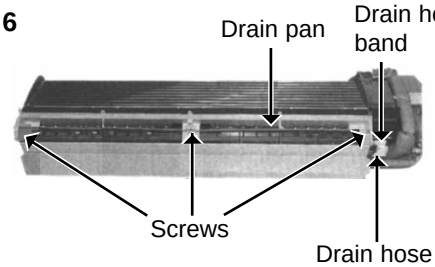
4. HOW TO CHECK THE PARTS

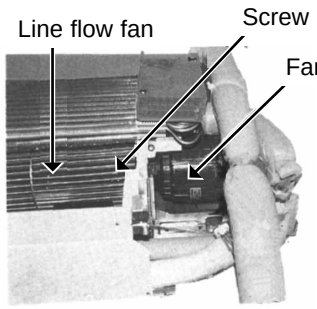
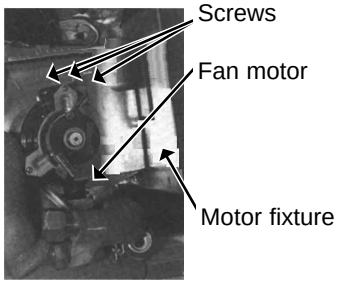
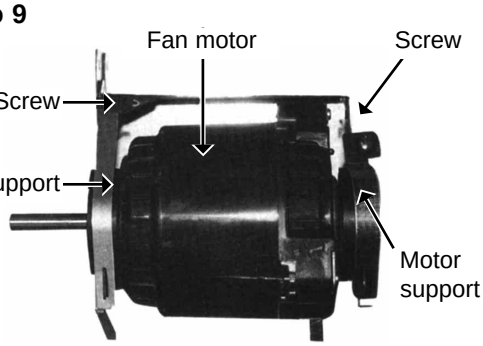
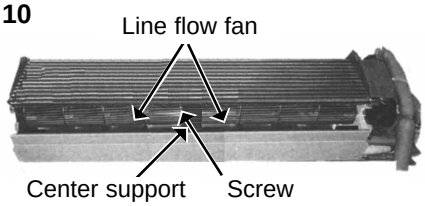
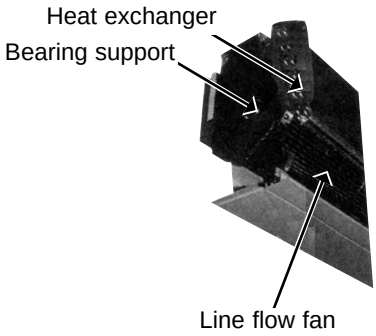
Parts name	Check points
Room temperature thermistor (RT1) Pipe temperature thermistor (RT2)	Disconnect the connector, then measure the resistance using a tester. (Surrounding temperature 50°F to 86°F) Normal: 4.3kΩ to 9.6kΩ Abnormal: Open or short
Fan motor 	Measure the resistance between the terminals using a tester. Motor terminal or Relay connector / Normal / PK / 18/24FL, 18/24FL1: Red-White 99.5Ω±10%, White-Black 103.5Ω±10% / 30/36FL, 30/36FL1: Red-White 62.6Ω±10%, White-Black 74.0Ω±10% / Abnormal: Open or short Opening and closing temperature of protector Open: 266±41°F(Fan motor OFF) Close: 176±68°F(Fan motor ON)
Vane motor 	Measure the resistance between the terminals using a tester. (Surrounding temperature 68°F to 86°F) Brown-Yellow, Brown-Blue, Red-Orange, Red-Pink: Normal 186 to 214Ω; Abnormal: Open or short

12 DISASSEMBLY PROCEDURE

Indoor unit PK24FL, PK24FL$_1$

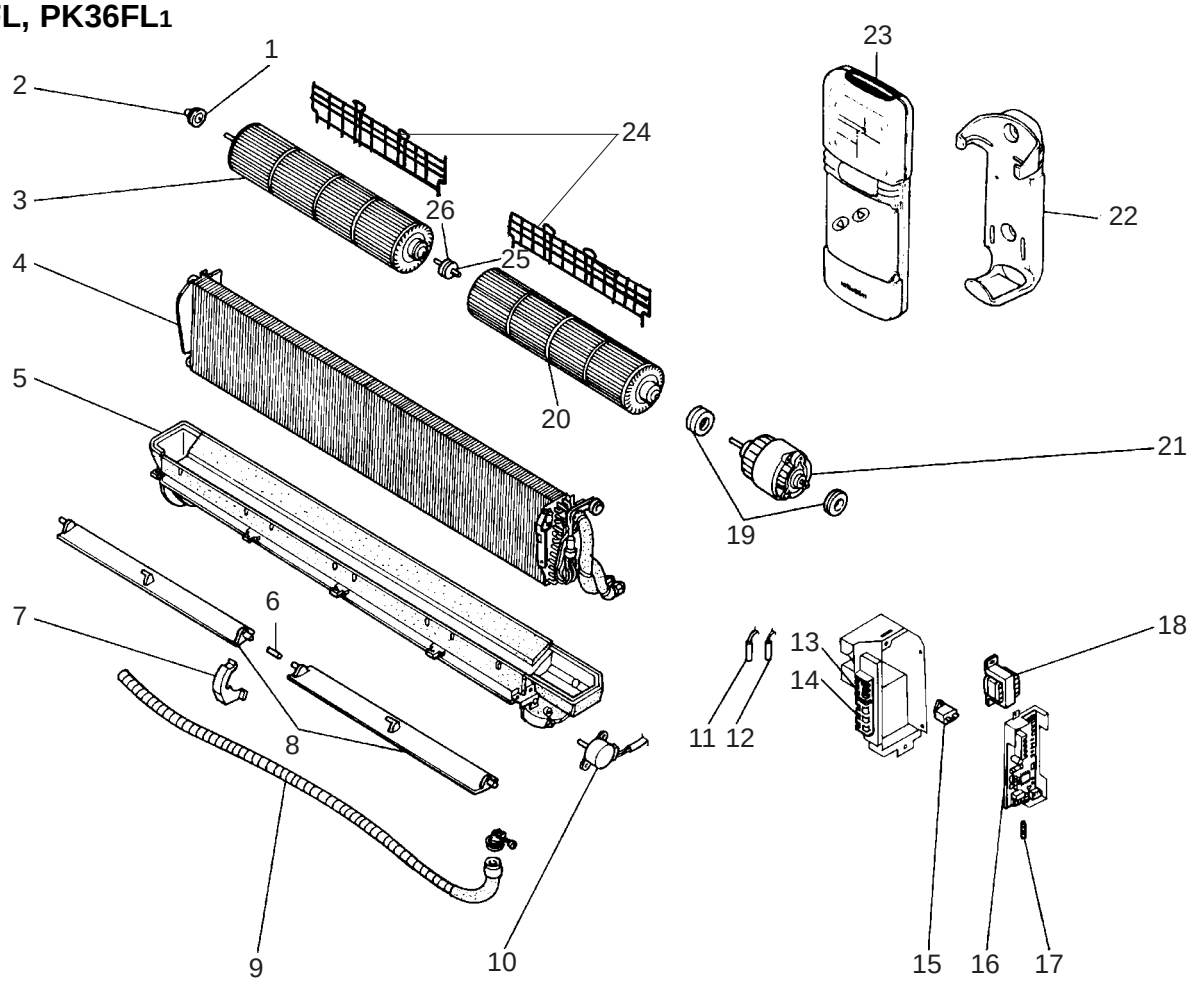
OPERATING PROCEDURE	PHOTOS&ILLUSTRATION
1. Removing the lower side of the indoor unit from the installation plate (1) Remove the 2 screws. Hang the indoor unit hangers to the catches on the installation plate. 	**Figure 1** 
2. Removing the right side panel (1) Remove the 2 screws of the right side panel:one on the bottom and the other on the upper right-hand side. (2) Disconnect the connector from the adapter case. (3) Sliding the right side panel to the right, pull it out toward you.	**Figure 2** 
3. Removing the indoor controller board (1) Remove the right side panel. (2) Remove the screw of the electrical box cover, and remove the cover. (3) Disconnect the connectors on the indoor controller board. (4) To unhook the catches on the right-hand side of the indoor controller board, pull the left-hand side toward you and lift up the cover to the right. Then the indoor controller board can be removed.	**Photo 1** 
4. Removing the electrical box (1) Remove the right side panel. (2) Remove the screw of the electrical box cover, and remove the cover. (3) Remove the room temperature thermistor and the pipe temperature thermistor. (4) Disconnect the vane motor connector on the indoor controller board. (5) Remove the 2 screws of the electrical box. (6) Disconnect the connector of the heater lead wire connector. (7) Disconnect the connector of the fan motor lead wire. (8) Remove the electrical box.	**Photo 2** 

OPERATING PROCEDURE	PHOTOS&ILLUSTRATION
(8) Remove the screws of the indoor controller board case, and pull out the indoor controller board case. Then the transformer and the capacitor and relay can be serviced.	**Photo 3** 
5. Removing the vane motor (1) Remove the right side panel. (2) Remove the screw of the electrical box cover, and remove the cover. (3) Remove the 2 screws of the vane motor, and remove the motor from the shaft. (4) Disconnect the vane motor connector on the indoor controller board.	**Photo 4** 
6 Removing the intake grilles (1) Remove the right side panel. (2) To remove the left side panel, remove the screw on the bottom and the screw on the upper left-hand side. (See Figure 3.) 1. Press up this side of the left side panel to unhook the catch on the panel from the catch on the unit. 2. Slide the left side panel to the left to remove the panel. Note: Fix the unit to the metal fixture securely (3) Remove the air filters. (4) Hold and press the center cover to remove. (5) Remove the screws of the grilles. (6) Pull the lower side of the grille toward you and slide the upper to the right to remove the grilles.	**Figure 3**  **Photo 5** 
7. Removing the drain pan (1) Remove the left and right side panels. (2) Remove the grilles. (3) Remove the electrical box cover. (4) Loosen the drain hose band to remove. (5) Remove the 3 screws of the drain pan, and slide the drain pan toward you to remove.	**Photo 6** 

OPERATING PROCEDURE	PHOTOS
8. Removing the line flow fan and the fan motor (1) Remove the left and right side panels. (2) Remove the grilles. (3) Remove the electrical box. (4) Remove the drain pan. (5) Loosen the screw that fixes the line flow fan to the fan motor. (See Photo 7.) (6) Remove the 4 screws of the motor fixture, and remove the fan motor and the motor fixture at a time (See Photo 8.) (7) Remove the screws of the left and right motor supports, and remove the motor supports and the fan motor. (See Photo 9.) (8) Remove the 2 screws on the left and right sides of the heat exchanger, and pull the bearing support toward you. (See Photo 11.) (9) Remove the screw of the center support, and remove the support. (See Photo 10.) (10) Pull the left-hand side of the heat exchanger toward you, and remove the line flow fan.	**Photo 7**  **Photo 8**  **Photo 9**  **Photo 10**  **Photo 11** 

13 PARTS LIST

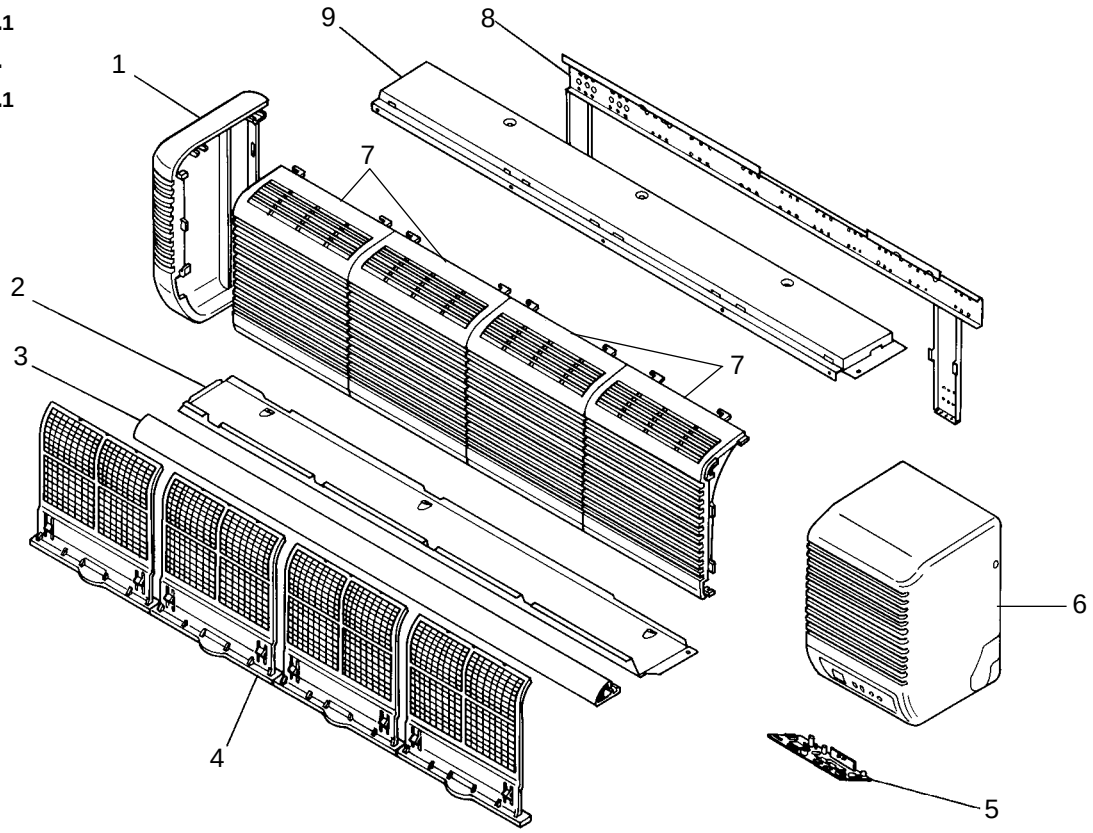
ELECTRICAL PARTS
PK18FL, PK18FL1
PK24FL, PK24FL1
PK30FL, PK30FL1
PK36FL, PK36FL1



No.	Parts No.	Parts Name	Specifications	Q'ty / set								Remarks (Drawing No.)	Wiring Diagram Symbol
				PK18		PK24		PK30		PK36			
				FL	FL1	FL	FL1	FL	FL1	FL	FL1		
1	R01 005 103	SLEEVE BEARING		1	1	1	1	1	1	1	1		
2	R01 Z61 102	BEARING MOUNT		1	1	1	1	1	1	1	1		
3	R01 13G 114	LINE FLOW FAN (L)		1	1	1	1						
	R01 17G 114	LINE FLOW FAN (L)						1	1	1	1		
4	T7W B04 480	HEAT EXCHANGER		1	1								
	T7W B06 480	HEAT EXCHANGER				1	1						
	T7W B05 480	HEAT EXCHANGER						1	1	1	1		
5	T7W B04 529	DRAIN PAN ASSY		1		1							
	T7W E13 529	DRAIN PAN ASSY			1		1						
	T7W B05 529	DRAIN PAN ASSY						1		1			
	T7W E14 529	DRAIN PAN ASSY							1		1		

No.	Parts No.	Parts Name	Specifications	Q'ty / set								Remarks (Drawing No.)	Wiring Diagram Symbol
				PK18		PK24		PK30		PK36			
				FL	FL1	FL	FL1	FL	FL1	FL	FL1		
6	R01 12G 063	JOINT SHAFT		1	1	1	1	1	1	1	1		
7	R01 12G 621	CENTER COVER		1	1	1	1	1	1	1	1		
8	R01 12G 002	AUTO VANE W		2	2	2	2						
	R01 16G 002	AUTO VANE W						2	2	2	2		
9	R01 KV5 527	DRAIN HOSE		1	1	1	1	1	1	1	1		
10	R01 12G 223	VANE MOTOR		1	1	1	1	1	1	1	1		MV
11	R01 87Y 202	ROOM TEMPERATURE THERMISTOR		1	1	1	1	1	1	1	1		RT1
12	R01 22A 202	PIPIE TEMPERATURE THERMISTOR		1	1	1	1	1	1	1	1		RT2
13	R01 556 246	TERMINAL BLOCK	2P(1,2)	1	1	1	1	1	1	1	1		TB4
14	T7W 410 716	TERMINAL BLOCK	3P(L1,N,GR)	1	1	1	1	1	1	1	1		TB2
15	T7W B02 255	FAN MOTOR CAPACITOR	8μF 440V	1	1	1	1	1	1	1	1		C
16	T7W E03 310	INDOOR CONTROLLER BOARD		1	1	1	1	1	1	1	1		I.B
17	T7W 410 239	FUSE	250V 6A	2	2	2	2	2	2	2	2		F1.2<I.B>
18	T7W E01 799	TRANSFORMER		1	1	1	1	1	1	1	1		T
19	R01 12G 105	RUBBER MOUNT		2	2	2	2						
	R01 16G 105	RUBBER MOUNT						2	2	2	2		
20	R01 13G 115	LINE FLOW FAN (R)		1	1	1	1						
	R01 17G 115	LINE FLOW FAN (R)						1	1	1	1		
21	T7W B02 762	FAN MOTOR	PN4W40-K	1	1	1	1						MF
	T7W B03 762	FAN MOTOR	PN4W70-K					1	1	1	1		MF
22	R01 18G 075	WIRELESS REMOTE CONTROLLER HOLDER		1	1	1	1	1	1	1	1		
23	T7W E01 714	WIRELESS REMOTE CONTROLLER		1	1	1	1	1	1	1	1		W.R
24	T7W 71J 675	FAN GUARD		2	2	2	2	2	2	2	2		
25	R01 12G 103	SLEEVE BEARING		1	1	1	1	1	1	1	1		
26	R01 KV5 102	BEARING MOUNT		1	1	1	1	1	1	1	1		

STRUCTURAL PARTS
PK18FL
PK18FL1
PK24FL
PK24FL1

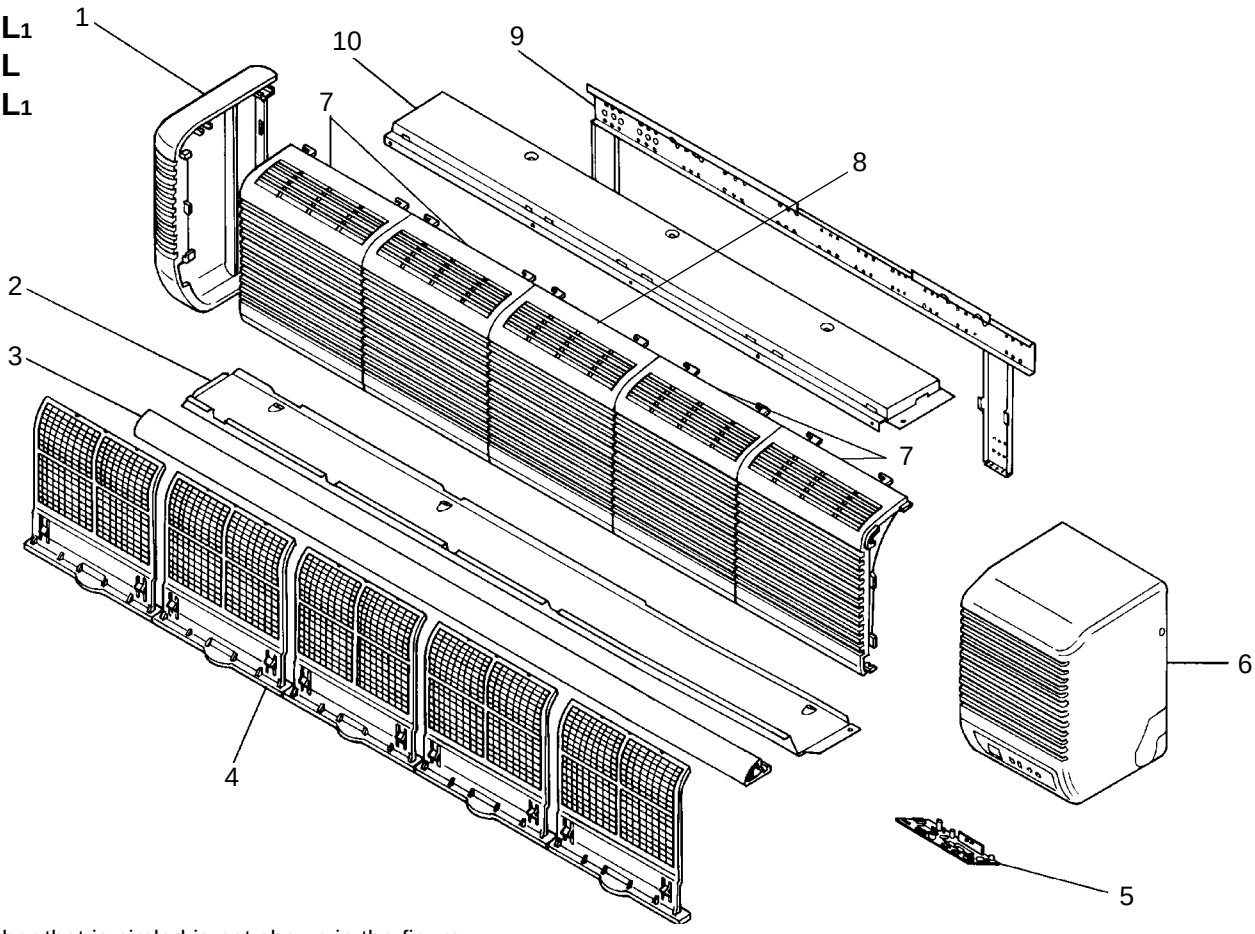


Part number that is circled is not shown in the figure.

No.	Parts No.	Parts Name	Specifications	Q'ty / set				Remarks (Drawing No.)	Wiring Diagram Symbol
				PK					
				18FL	18FL1	24FL	24FL1		
1	R01 12G 662	SIDE PANEL (L) W		1	1	1	1		
2	R01 12G 812	UNDER PLATE W		1		1			
	R01 E01 812	UNDER PLATE W			1		1		
3	R01 12G 811	NOSE W		1		1			
	R01 E00 811	NOSE W			1		1		
4	R01 A17 500	AIR FILTER W		4	4	4	4		
5	T7W E01 317	WIRELESS ADAPTER BOARD		1	1	1	1		W.B
6	T7W E00 661	SIDE PANEL (R)		1	1	1	1		
7	R01 12G 691	INTAKE GRILLE W		2	2	2	2		
8	R01 12G 808	BACK PLATE		1	1	1	1		
9	R01 E01 641	TOP PLATE W		1	1	1	1		
(10)	R01 12G 523	DRAIN SOCKET		1	1	1	1		

STRUCTURAL PARTS

PK30FL
PK30FL$_1$
PK36FL
PK36FL$_1$



Part number that is circled is not shown in the figure.

No.	Parts No.	Parts Name	Specifications	Q'ty / set				Remarks (Drawing No.)	Wiring Diagram Symbol
				PK					
				30FL	30FL$_1$	36FL	36FL$_1$		
1	R01 12G 662	SIDE PANEL (L) W		1	1	1	1		
2	R01 16G 812	UNDER PLATE W		1		1			
	R01 E00 812	UNDER PLATE W			1		1		
3	R01 16G 811	NOSE W		1		1			
	R01 E01 811	NOSE W			1		1		
4	R01 A17 500	AIR FILTER W		5	5	5	5		
5	T7W E01 317	WIRELESS ADAPTER BOARD		1	1	1	1		W.B
6	T7W E00 661	SIDE PANEL (R)		1	1	1	1		
7	R01 12G 691	INTAKE GRILLE W		2	2	2	2		
8	R01 16G 692	INTAKE GRILLE W		1	1	1	1		
9	R01 16G 808	BACK PLATE		1	1	1	1		
10	R01 E00 641	TOP PLATE W		1	1	1	1		
(11)	R01 12G 523	DRAIN SOCKET		1	1	1	1		



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