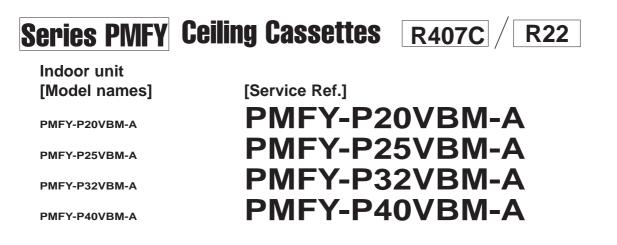
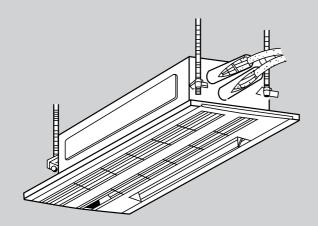




No. OC248

# **TECHNICAL & SERVICE MANUAL**





**INDOOR UNIT** 

#### CONTENTS

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- 2. PART NAMES AND FUNCTIONS ------4
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- 6. REFRIGERANT SYSTEM DIAGRAM ---12 7. TROUBLE SHOOTING------13

#### Cautions for using with the outdoor unit which adopts R407C refrigerant.

- Do not use the existing refrigerant piping.

-The old refrigerant and lubricant in the existing piping contains a large amount of chlorine which may cause the lubricant deterioration of the new unit.

• Use "low residual oil piping".

1

-If there is a large amount of residual oil (hydraulic oil, etc.) inside the piping and joints, deterioration of the lubricant will result.

• Store the piping to be used during installation indoors with keep both ends sealed until just before brazing. (Store elbows and other joints in a plastic bag.)

-If dust, dirt, or water enters the refrigerant cycle, deterioration of the oil and compressor trouble may result.

· Use ESTR , ETHER or HAB as the lubricant to coat flares and flange connection parts.

#### Use liquid refrigerant to seal the system.

-If gas refrigerant is used to seal the system, the composition of the refrigerant in the cylinder will change and performance may drop.

- Do not use a refrigerant other than R407C.
   If another refrigerant (R22, etc.) is used, the chlorine in the refrigerant may cause the lubricant deterioration.
  - Use a vacuum pump with a reverse flow check valve.

-The vacuum pump oil may flow back into the refrigerant cycle and cause the lubricant deterioration.

### [1] Service tools

Use the below service tools as exclusive tools for R407C refrigerant.

No.	Tool name	Specifications
1	Gauge manifold	•Only for R407C.
		·Use the existing fitting SPECIFICATIONS. (UNF7/16)
		·Use high-tension side pressure of 3.43MPa·G or over.
2	Charge hose	·Only for R407C.
		·Use pressure performance of 5.10MPa·G or over.
3	Electronic scale	
4	Gas leak detector	·Use the detector for R134a or R407C.
5	Adapter for reverse flow check.	·Attach on vacuum pump.
6	Refrigerant charge base.	
$\bigcirc$	Refrigerant cylinder.	•For R407C •Top of cylinder (Brown)
		·Cylinder with syphon
8	Refrigerant recovery equipment.	

#### [2] Notice on repair service

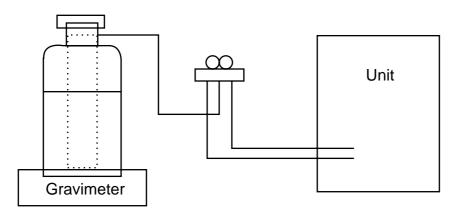
After recovering the all refrigerant in the unit, proceed to working.
Do not release refrigerant in the air.
After completing the repair service, recharge the cycle with the specified amount of liquid refrigerant.

#### [3] Refrigerant recharging

- (1) Refrigerant recharging process
  - ①Direct charging from the cylinder.

•R407C cylinder are available on the market has a syphon pipe.

·Leave the syphon pipe cylinder standing and recharge by liquid refrigerant



(2) Recharge in refrigerant leakage case

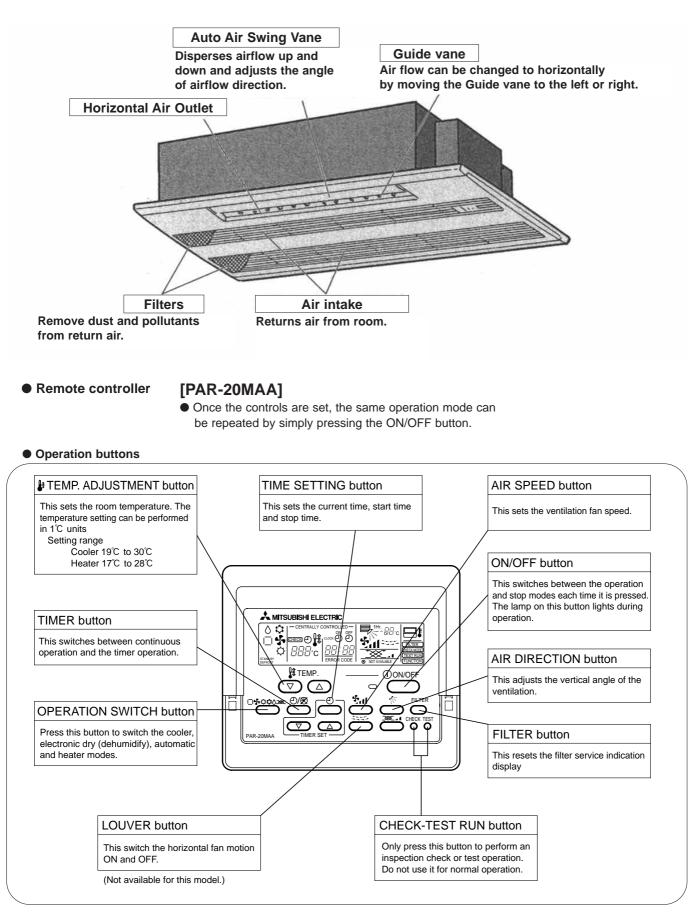
•After recovering the all refrigerant in the unit, proceed to working.

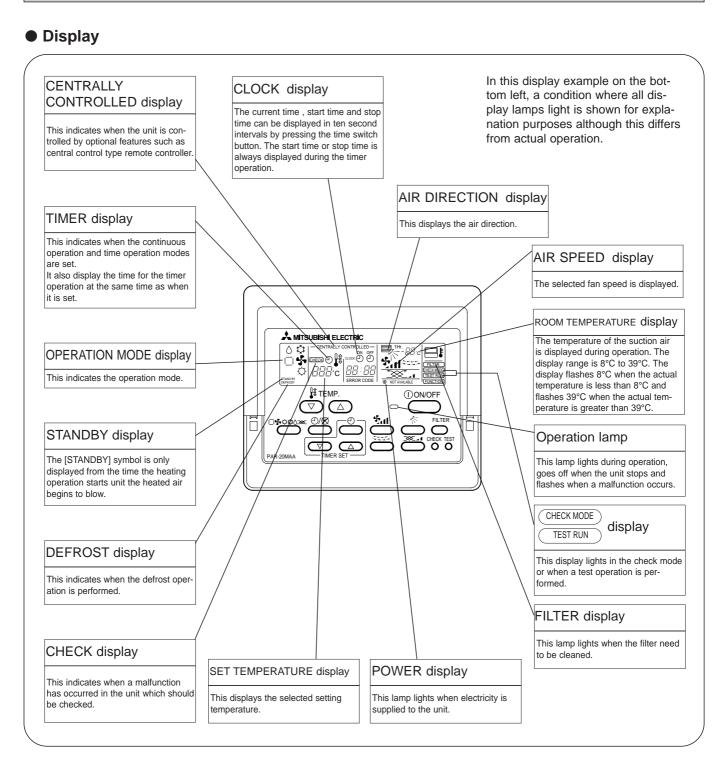
•Do not release the refrigerant in the air.

After completing the repair service, recharge the cycle with the specified amount of liquid refrigerant.

## PART NAMES AND FUNCTIONS

#### Indoor (Main) Unit





#### Caution

- Only the Power display lights when the unit is stopped and power supplied to the unit.
- When the central control remote control unit, which is sold separately, is used the ON-OFF button, operation switch button and # TEMP. adjustment button do not operate.
- "NOT AVAILABLE" is displayed when the Air speed button are pressed. This indicates that this room unit is not equipped with the fan direction adjustment function and the louver function.
- When power is turned ON for the first time, it is normal that "H0" is displayed on the room temperature indication (For max. 2minutes). Please wait until this "H0" indication disappear then start the operation.

## SPECIFICATION

### 3-1. Specification

3

		Item		PMFY-P20VBM-A	PMFY-P25VBM-A	PMFY-P32VBM-A	PMFY-P40VBM-A		
	Powe	er	V•Hz	Ş	Single phase 220V-230V-	240V 50Hz / 220V 60Hz	Z		
Co	oling ca	apacity	kW	2.2	2.8	3.6	4.5		
Hea	ating ca	apacity	kW	2.5	3.2	4.0	5.0		
ristic	Input	Cooling	kW	0.042	0.044	0.044	0.054		
Electric characteristic	Input	Heating	kW	0.042	0.044	0.044	0.054		
ric ch	Current	Cooling	А	0.20	0.21	0.21	0.26		
Elect	Current	Heating	А	0.20	0.21	0.21	0.26		
(m	Exteric unsell sy		_	Unit : Galvanized shee	ts · Standard grills : ABS	resin acrylic coating Mu	nsell<0.98Y 8.99/0.63>		
		Height	mm		230<30>				
Dim	ensions	Width	mm	812<1,000>					
		Depth	mm	395<470>					
He	Heat exchanger		_	Cross fin					
	Fan	X No		Line flow fan X 1					
F	Air flo	w <b>%</b> 3	m³ <b>/min</b>	8.7-8.0-7.2-6.5	9.3-8.6-8.0-7.3		10.7-9.7-8.7-7.7		
n	Exte static p		Ра		(	D			
		motor tput	kW		0.0	)28			
	Insula	tor	_		Polyethyl	ene sheet			
	Air filt	er	_		PP honey comb fabric				
	Pipe	Gas side	ømm(in.)		12.7	(1/2")			
dim	ensions	Liquid side	ømm(in.)		6.35	(1/4")			
Un	it drain pi	pe size	ømm		I.D.26 (PVC pipe )	VP-20 connectable)			
Nc	ise lev	el *3	dB	35-33-30-27	37-36-	-34-32	39-37-35-33		
Pr	oduct v	veight	kg		14<3.0>				

Note 1. Rating conditions Cooling: Indoor: D.B. 27°C W.B. 19.0°C outdoor: D.B. 35°C Heating: Indoor: D.B. 20°C outdoor: D.B. 7°C W.B. 6°C

Note 2. The number indicated in < > is just for the grille.

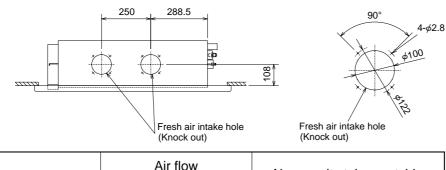
\* 3. Air flow and the noise level are indicated as High-Middium 1-Middium 2-Low.

### 3-2. Electrical parts specifications

Model Parts name	Symbol	PMFY-P20VBM-A	PMFY-P25VBM-A	PMFY-P32VBM-A	PMFY-P40VBM-A		
Room temperature thermistor	TH21	Resistance 0°C/15kΩ, 10°C/9.6kΩ, 20°C/6.3kΩ, 25°C/5.2kΩ, 30°C/4.3kΩ, 40°C/3.0kΩ					
Liquid pipe thermistor	TH22	Resistance 0°C/15	kΩ, 10℃/9.6kΩ, 20℃/6	.3kΩ, 25℃/5.2kΩ, 30℃/	/4.3kΩ, 40°C/3.0kΩ		
Gas pipe thermistor	TH23	Resistance 0°C/15	kΩ, 10°C/9.6kΩ, 20°C/6	.3kΩ, 25°C/5.2kΩ, 30°C/	/4.3kΩ, 40°C/3.0kΩ		
Fuse (Indoor controller board)	FUSE		250V	6.3A			
Fan motor	MF	DC Brushless Motor 8-pole OUTPUT 28W PN0H28-MA					
Vane motor	M∨	MSFJC 20M23 12V/380Ω					
Drain-up mechanism	DP			-1046 V 50/60Hz			
Drain sensor	DS	Thermistor resistance	0℃/6kΩ, 10℃/3.9kΩ, 20	)℃/2.6kΩ, 25℃/2.2kΩ, 3	0℃/1.8kΩ, 40℃/1.3kΩ		
Linear expansion valve	LEV	DC12V Stepping motor drive port (0~2000pulse) EDM-402ME					
Power supply terminal block	TB2	(L, N, ⊕) 330V 30A					
Transmission terminal block	TB5	(M1, M2, S) 250V 20A					
MA-remote controller terminal block	TB15		(1,2) 25	50V 10A			

#### 3-3. Air capacity taken from outside

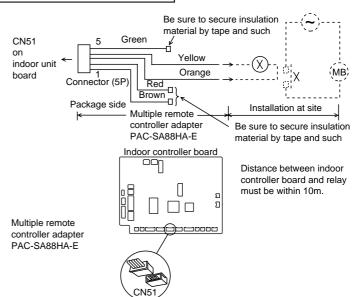
PMFY-P-VBM-A series are possible to be taken air from outside. When taking air from the outside, the duct fan can be used to. The air capacity should be 20% or less of the air flow SPEC(Hi).

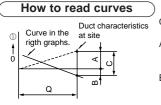


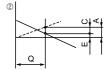
Service Ref.	Air flow (Hi)	Air capacity taken outside
PMFY-P20VBM-A	8.7m <sup>3</sup> /min	Max 1.74m <sup>3</sup> /min
PMFY-P25VBM-A	9.3m <sup>3</sup> /min	Max 1.86m <sup>3</sup> /min
PMFY-P32VBM-A	9.3m <sup>3</sup> /min	Max 1.86m <sup>3</sup> /min
PMFY-P40VBM-A	10.7m <sup>3</sup> /min	Max 2.14m <sup>3</sup> /min

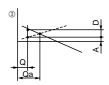
## Interlocking operation method with duct fan (Booster fan)

- •Whenever the indoor unit is operating, the duct fun also operates.
  - (1)Connect the optional multiple remote controller adapter(PAC-SA88HA-E)to the connector CN51 on the indoor controller board.
  - (2)Drive the relay after connecting the 12V DC relay between the Yellow and Orange connector lines.
  - (\*)Use a relay under 1W.
  - MB: Electromagnetic switch power relay for duct fan. X: Auxiliary relay (12V DC LY-1F)



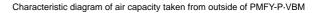


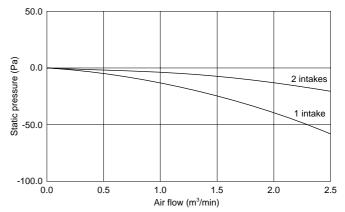




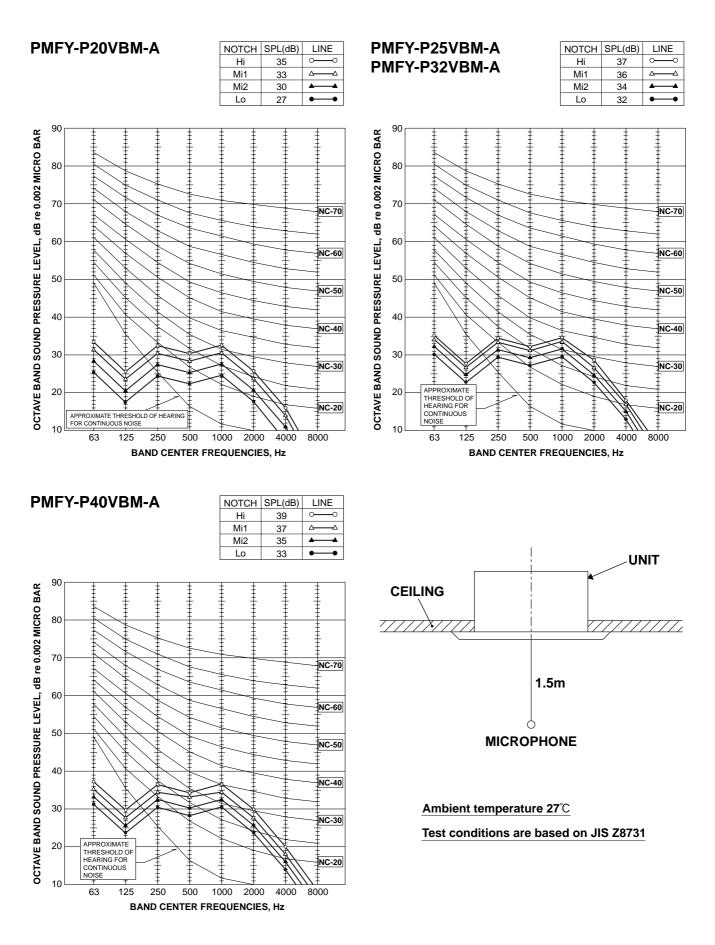
Q...Planned amount of fresh air intake <m³/min>

- A...Static pressure loss of fresh air intake duct system with air flow amount Q <Pa>
   B...Forced static pressure at air conditioner inlet with air flow amount Q <Pa>
- C...Static pressure of booster fam with air flow amount Q <Pa> D...Static pressure loss increase
- amount of fresh air intake dust system for air flow amount Q
- E...Static pressure of indoor unit with air flow amount Q <Pa> Qa...Estimated amount of fresh air
- intake with out D <m³/min>

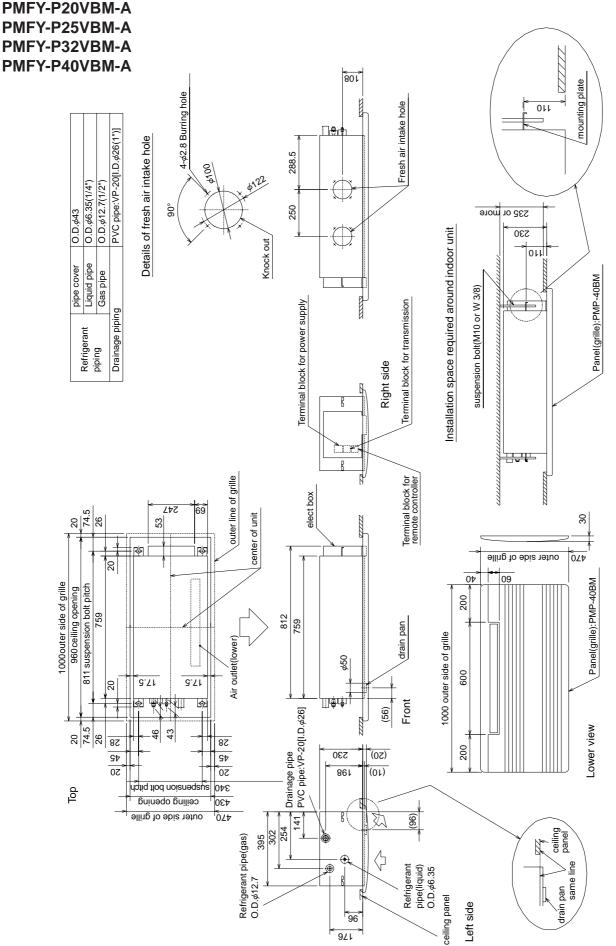




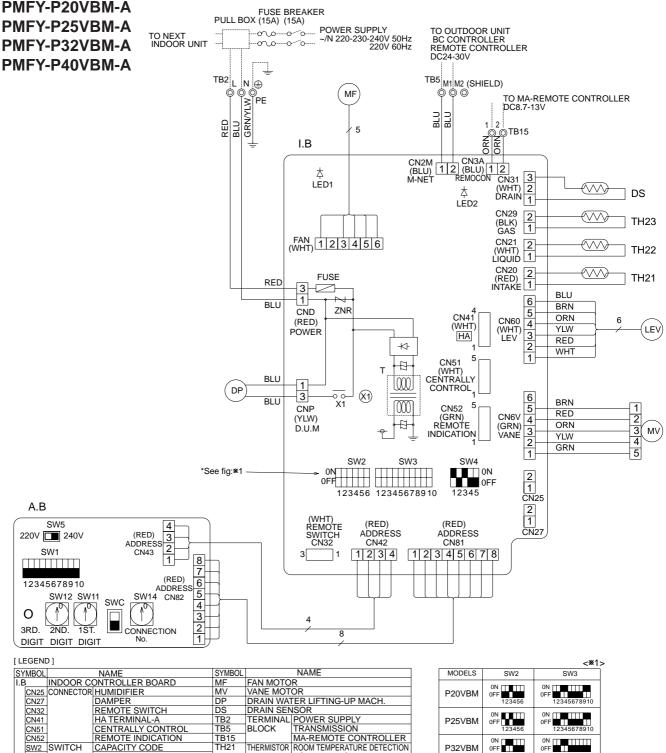
#### **3-4. NOISE CRITERION CURVES**



## **OUTLINES AND DIMENSIONS**



5



				102
	CN51		CENTRALLY CONTROL	TB5
	CN52		REMOTE INDICATION	TB15
	SW2	SWITCH	CAPACITY CODE	TH21
	SW3		MODE SELECTION	
	SW4		MODEL SELECTION	TH22
	ZNR	VARISTOR		
	FUSE	FUSE(6.3A	(250V)	TH23
	X1	AUX.RELAY	DRAIN PUMP	
	Т	TRANSFOF	RMER	LEV
	LED1	POWER SL	JPPLY(I.B)	NIC
	LED2	POWER SL	JPPLY(I.B)	NC
A.	В	CIRCUIT B	DARD	1.
	SW1	SWITCH	MODE SELECTION	
	SW5		VOLTAGE SELECTION	<u> </u>
	SW11		ADDRESS SETTING 1ST DIGIT	2.
	S\N/12		ADDRESS SETTING 2ND DIGIT	3

CONNECTION NO

SW12

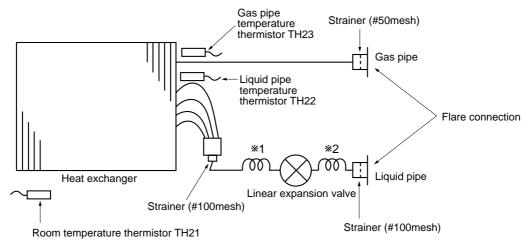
1	THERMISTOR	ROOM TEMPERATURE DETECTION
		(0°C/15kΩ, 25°C/5.4kΩ)
2		PIPE TEMPERATURE DETECTION/LIQUID
		(0°C/15kΩ, 25°C/5.4kΩ)
3		PIPE TEMPERATURE DETECTION/GAS
		(0°C/15kΩ, 25°C/5.4kΩ)
	LINEAR EX	PANSION VALVE
	-F.O.	

		<*1>
MODELS	SW2	SW3
P20VBM	0N 0FF 123456	0N 0FF 12345678910
P25VBM	0N 0FF 123456	0N 0FF 12345678910
P32VBM	0N 0FF 123456	0N 0FF 12345678910
P40VBM	0N 0FF 123456	0N 0FF 12345678910

OTES:

- .At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- .Symbol [S] of TB5 is the shield wire connection.
- 3.Symbols used in wiring diagram above are,
- $\odot$ :terminal block,  $\Box$ :connector.
- 4. The setting of the SW2 dip switches differs in the capacity for the detail. see the table  $< \times 1 >$ .
- 5. Please set the switch SW5 according to the power supply voltage. Set SW5 to 240V side when the power supply is 230 and 240 volts. When the power supply is 220 volts, set SW5 to 220V side.

#### PMFY-P20VBM-A PMFY-P25VBM-A PMFY-P32VBM-A PMFY-P40VBM-A

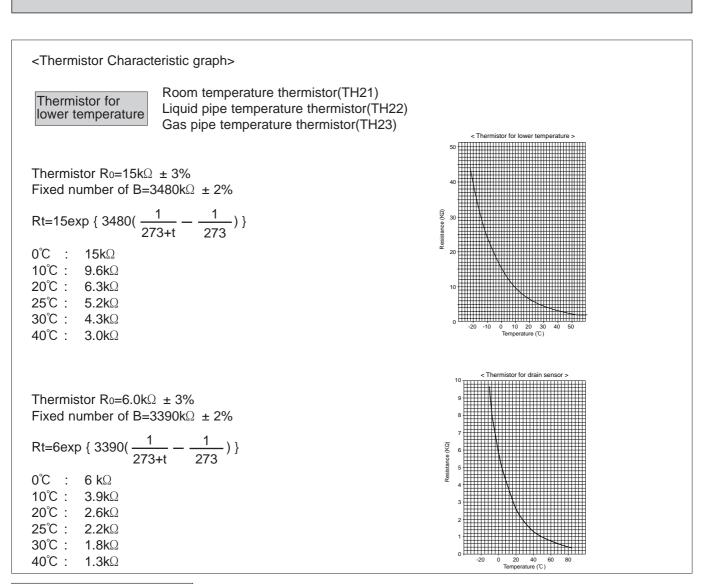


Service Ref. Item	PMFY-P20, P25, P32, P40VBM-A
Gas pipe	φ12.7(1/2")
Liquid pipe	<i>φ</i> 6.35(1/4")

	PMFY-P20, P25VBM-A	PMFY-P32, P40VBM-A
Capillary tube *1	O.D. <i>φ</i> 4.6 × I.D. <i>φ</i> 3.4 × ℓ 200	O.D. <i>φ</i> 3.6 × I.D. <i>φ</i> 2.4 × ℓ 200
Capillary tube *2	O.D.¢3.6 × I.D.¢2.4 × ℓ 80	

### 7-1. How to check the parts PMFY-P•VBM-A

Parts name	Check points						
Room temperature thermistor (TH21) Liquid pipe temperature	Disconnect the con (Surrounding temp			resistance using	g a tester		
thermistor (TH22)	Normal	ŀ	bnormal			,	
Gas pipe temperature thermistor (TH23)	4.3kΩ~9.6kΩ	Ор	en or short	(Refer to t	ne next p	age for a c	ietali.)
Vane motor	Measure the resistance between the terminals using a tester. (Surrounding temperature $20^{\circ}C \sim 30^{\circ}C$ )						
	Connector	No	ormal	Abnormal			
Red (4)	Brown — Yellow	1					
Brown 5	Brown — Red		Ω ±7%	Open or she	ort		
(j) (j) Green Orange	Brown — Orang	je	, , , , , , , , , , , , , , , , , ,				
Creen orange	Brown — Greer	1					
Linear expansion valve	Disconnect the connector then measure the resistance valve using a tester. Refer to the next page for a detail.						
	Normal				Abn	ormal	7
2 <sup>€</sup> <u>Yellow</u> ④	(1)-(5)			(4)-(6) Blue-Brown	0.0.0.0	ou ob out	(Refer to the next
Crange 3 Red 5	White-Red         Yellow-Blown         Orange-Red         E           150kΩ ±10%			Blue-Blown	Open	or short	page for a detail.)
Drain-up mechanism	Measure the resist (Surrounding temp			als using a teste	r.		
	Normal	ŀ	Abnormal				
Blue 2	400Ω~480Ω Open or short						
Drain sensor	Measure the resistance after 3 minutes have passed since the power supply was intercepted. (Surrounding temperature $0^{\circ}C \sim 60^{\circ}C$ )						as intercepted.
1	Normal	ŀ	bnormal				
	0.6kΩ~6.0kΩ	Op	en or short	(Refer to t	he next p	age for a d	detail.)

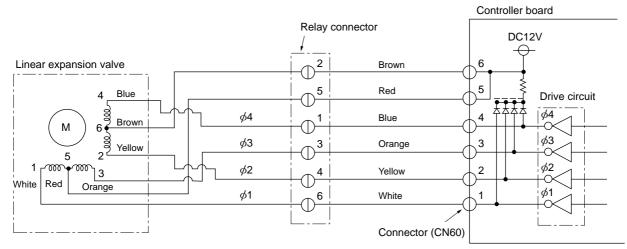


#### Linear expansion valve

#### ① Operation summary of the linear expansion valve.

- Linear expansion valve open/close through stepping motor after receiving the pulse signal from the indoor controller board.
- Valve position can be changed in proportion to the number of pulse signal.

<Connection between the indoor controller board and the linear expansion valve>

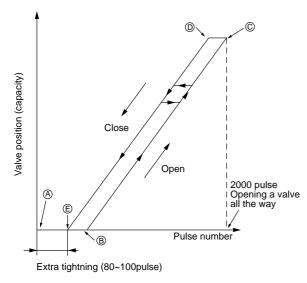


Note : Since the number of the connector at the controller board side and the relay connector are different, follow the color of the lead wire.

#### <Output pulse signal and the valve operation>

Output	Output					
(Phase)	1	2	3	4		
ø1	ON	OFF	OFF	ON		
ø2	ON	ON	OFF	OFF		
ø3	OFF	ON	ON	OFF		
<i>ø</i> 4	OFF	OFF	ON	ON		

2 Linear expansion valve operation



③ Trouble shooting

Closing a valve :  $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 1$ Opening a valve :  $4 \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow 4$ 

The output pulse shifts in above order.

- # 1. When linear expansion valve operation stops, all output phase become OFF.
  - 2. At phase interruption or when phase does not shift in order, motor does not rotate smoothly and motor will locks and vibrates.

When the valve move smoothly, there is no noise or vibration occurring from the linear expansion valve : however, when the pulse number moves from  $\textcircled{}{}_{\textcircled{}}$  to  $\textcircled{}_{\textcircled{}}$  or when the valve is locked, more noise can be heard than normal situation.

Noise can be detected by placing the ear against the screw driver handle while putting the screw driver to the linear expansion valve.

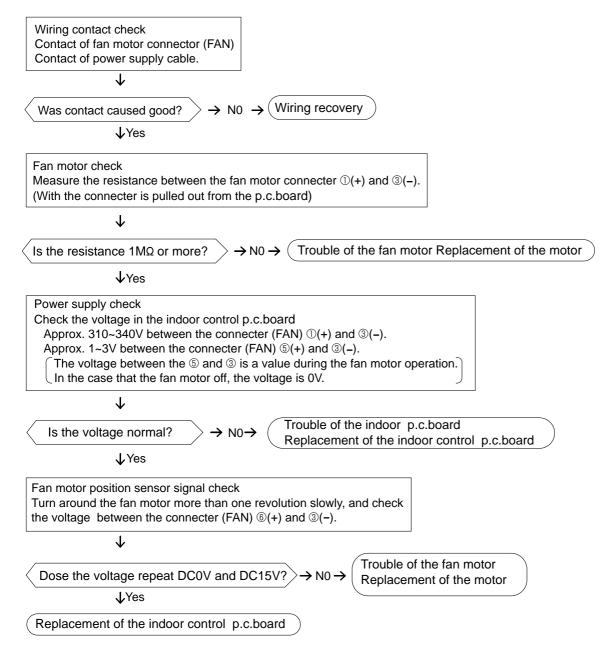
Symptom	Check points	Countermeasures
Operation circuit fail- ure of the micro processor.	Disconnect the connector on the controller board, then connect LED for checking. 0 6 5 0 6 5 0 4 0 3 2 $1 k\Omega$ LED Pulse signal will be sent out for 10 seconds as soon as the main switch is turn on. If there is LED with lights on or lights off, it means the operation circuit is abnormal.	Exchange the indoor con- troller board at drive circuit failure.
Linear expansion valve mechanism is locked.	Motor will idle and make ticking noise when motor is operated while the linear expansion valve is locked. This ticking sound is the sign of the abnormality.	
Short or breakage of the motor coil of the linear expansion valve.	Measure the resistance between the each coil (red-white, red-orange, brown-yellow, brown-blue) using a tester. It is normal if the resistance is in the range of 150 $\pm$ 10%.	Exchange the linear expansion valve.
Valve doesn't close completely (thermis- tor leaking).	To check the linear expansion valve, operate the indoor unit in fan mode and at the same time operate other indoor units in cooling mode, then check the pipe temperature <liquid pipe temperature&gt; of the indoor unit by the outdoor multi controller board operation monitor. During fan operation, linear expansion valve is closed completely and if there are some leaking, detecting tempera- ture of the thermistor will go lower. If the detected temperature indicated in the remote controller, it means the valve is not closed all the way. It is not necessary to exchange the linear expansion valve, if the leakage is small and not making any trouble.</liquid 	If large amount of thermis- tor is leaked, exchange the linear expansion valve.
Wrong connection of the connector or contact failure.	Check the color of lead wire and missing terminal of the con- nector.	Disconnect the connector at the controller board, then check the continuity.

### 7-2. TROUBLE SHOOTING

Check method of indoor fan motor (fan motor / control p.c.board) Notes

- · High voltage is applied to the connecter (FAN) for the fan motor. Give attention to the service.
- $\cdot$  Do not pull out the connector (Fan) for the motor with the power supply on.
- (It causes trouble of the control p.c.board)
- ② Self check

Conditions : The indoor fan cannot turn around.



### 7-3. FUNCTION OF DIP SWITCH

	Duta	Function				Operation	Domotico					
Switch	Pole				C	ON	OFF		Remarks			
	1	Thermistor <inta detection&gt; posit</inta 	ake temper	ature	Bult-in remo	ote controller	Indoor unit		Address board			
	2 Filter crogging detection				Provided		Not provided					
	3	Filter cleaning sign			2,500hr		100hr		ON At delivery>			
	4	Fresh air intake			Effective		Not effective		OFF 1 2 3 4 5 6 7 8 9 10			
SW1 Mode	5	Remote indication switching			Thermostat ON	I signal indication	Fan output indication		( <b>*1</b> ) Fan operation at Heating mode.			
Selection	6	Humidifier control Air flow at			Always operated v	vhile the heat in ON *1	Operated depends on th	e condition *2	( *2 ) Heater thermo ON is			
	7				Low *3		Extra low *3		operating. ( *3 ) SW 1-7=OFF, SW 1-8=ON			
	8	Heat thermos	stat OFF	-	Setting air f	low	Depends on SW	1-7	→ Setting air flow. SW 1-7=OFF, SW 1-8=ON			
	9	Auto restart f	function		Effective		Not effective		→ Indoor fan stop.			
	10	Power source ON/OFF			Effective		Not effective					
		MODELS			SW 2	MODELS	SW 2		Indoor controller board			
SW2			PMFY-			PMFY-	ON OFF		Set while the unit is off.			
Capacity	1~6	P20	VBM	OFF 1	23456	P32VBM	1 2 3 4 5 6		<at delivery=""></at>			
code setting			/FY- SVBM	ON OFF 1	2 3 4 5 6	PMFY- P40VBM	ON OFF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Set for each capacity.			
	1	Heat pump / Cool only			Cooling only	у	Heat pump		Indoor controller board			
	2	Louver			Available		Not available		Set while the unit is off.			
	3	Vane			Available		Not available		<at delivery=""></at>			
	4	Vane swing function			Available		Not available		ON OFF			
	5	Vane horizontal angle			Second set	ting	First setting		1 2 3 4 5 6 7 8 9 10			
	6	Vane cooling limit angle setting *4			Horizontal a	angle	Down B, C		( *4 ) At cooling mode, each angle can be used only			
SW3 Function	7	Indoor linear expansion valve opening change			Effective		Not effective		1 hour.			
Selection	8	Heating 4deg	g. up		Not effective	e	Effective		(*5) SW 3-9 setting PMFY-P20, P25VBM=ON			
	9	Target superheat	t setting *5		9deg. (5deg	g.) *6	6deg. (2deg.) *6	6	PMFY-P32, P40VBM=OFF SW 3-10 setting			
	10	0 Target sub cool setting *5			15deg.		10deg.		PMFY-P20, P25VBM=ON PMFY-P32, P40VBM=OFF			
									( *6 ) The numerical valve in the parentheses shows the case which the R22 outdoor unit is connected.			
SW4 Unit Selection	1~5	ON OFF 1 2 3 4 5							Indoor controller board Set while the unit is off. ON OFF 1 2 3 4 5			

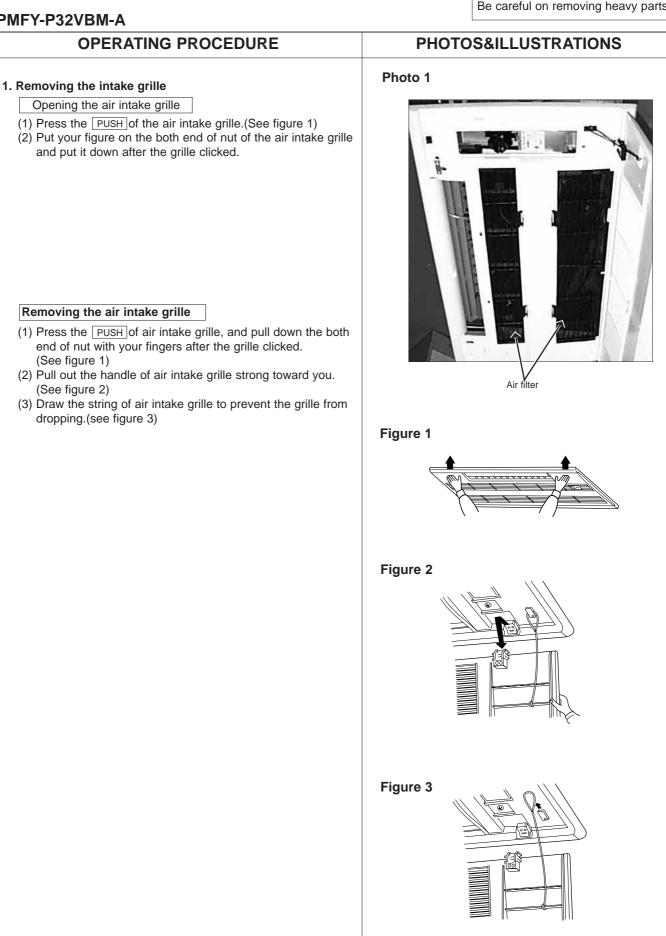
Switch	Pole		Operation by switch	Remarks				
SW11 1st digit address setting SW12 2nd digit address setting	ary switc	$ \begin{array}{c} \text{SW12} \\  & \text{SW12} \\ $	Address setting should be done when M-NET remote controller is being used.	Address board Address can be set while the unit is stopped. <at delivery=""> SW12 SW11 SW11 SW11 SW11 SW11</at>				
SW14 Connection No. setting	Rotary switch	SW14	This is the switch to be used when the indoor unit is operated with R2 series outdoor unit as a set.	Address board <at delivery=""> SW14 SW14 SW14</at>				
SW5 Voltage Selection	2	220V 240V	If the unit is used at the 230V or 240V area, set the voltage to 240V. If the unit is used at the 220V, set the voltage to 220V.	Address board <at delivery=""> 220V 240V</at>				

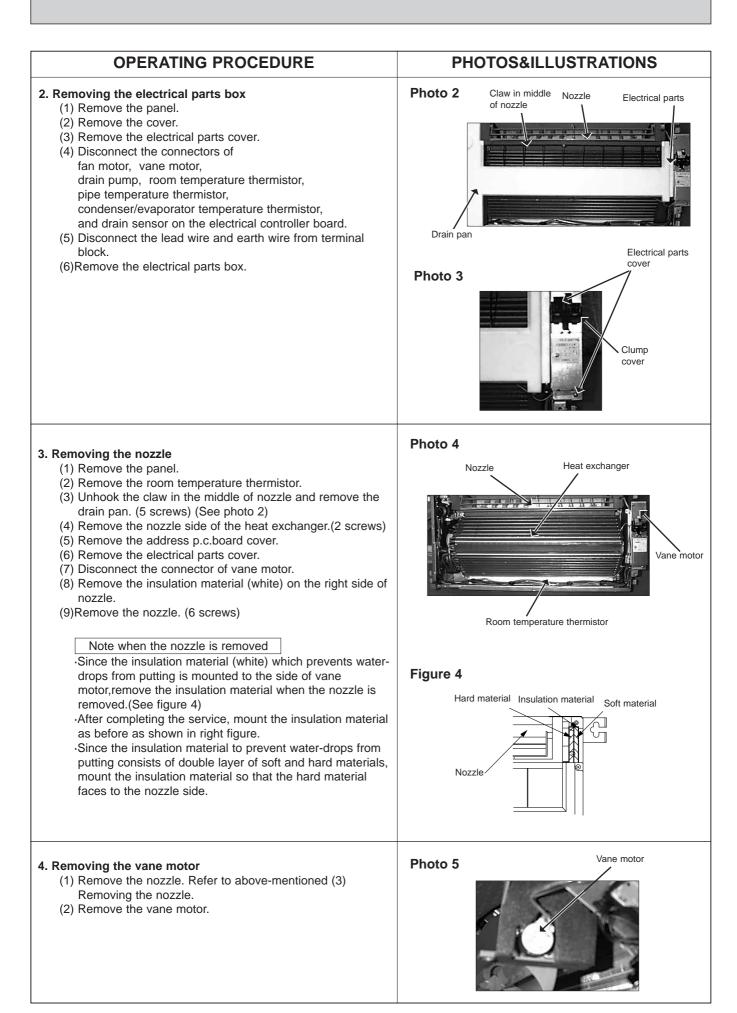
## **DISASSEMBLY PROCEDURE**

#### PMFY-P32VBM-A

8

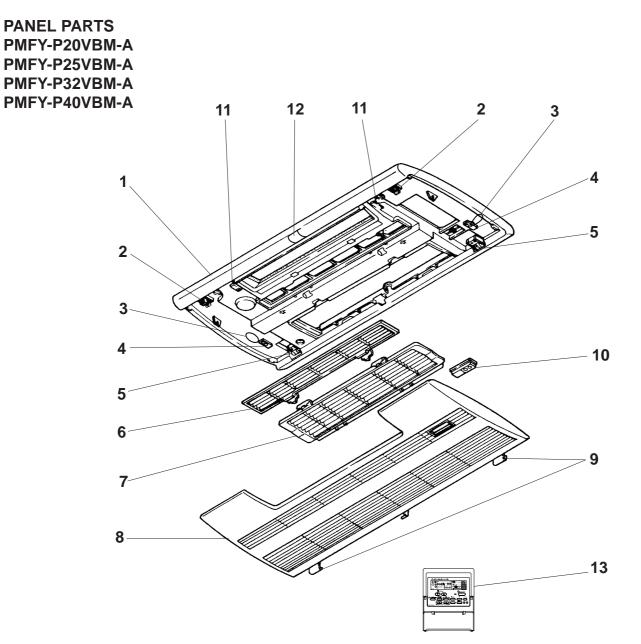
Be careful on removing heavy parts.





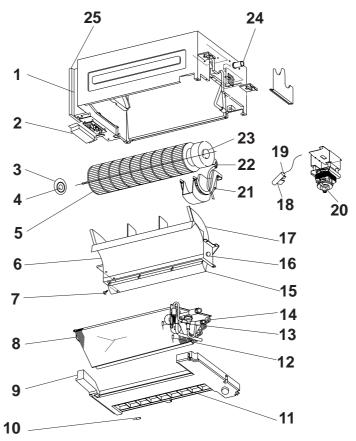
OPERATING PROCEDURE	PHOTOS&ILLUSTRATIONS
<ul> <li>5. Removing the drain pump <ol> <li>Remove the panel.</li> <li>Unhook the claw in the middle of nozzle and remove the drain pan.</li> <li>Remove the address p.c board cover.</li> <li>Remove the electrical parts cover.</li> <li>Disconnect the connector of drain pump.</li> <li>Remove the drain hose.</li> <li>Remove the drain pump.(2 screws)</li> </ol> </li> </ul>	Photo 6 Drair: sensor Drain pump Fan mot
<ul> <li>6. Removing the fan motor and line flow fan <ol> <li>Remove the panel.</li> <li>Unhook the claw in the middle of nozzle and remove the drain pan.</li> <li>Unscrew 2 screws at the nozzle side of the heat exchanger.</li> <li>Remove the address p.c.board cover.</li> <li>Remove the electrical parts cover.</li> <li>Disconnect the connector of vane motor,fan motor and drain pump.</li> <li>Remove the nozzle side of the heat exchanger.(2 screws)</li> <li>Remove the drain pump.</li> <li>Remove the drain pump.</li> <li>Unscrew 2 screws in the motor support.</li> <li>Remove the fan motor and line flow fan (The fan motor and line flow fan can be removed without removing the heat exchanger.)</li> </ol> </li> </ul>	Photo 7
<ul> <li>7. Removing the thermistor<intake detector="" temperature=""> <ul> <li>(1) Remove the panel.</li> <li>(2) Bring down the electrical parts box and remove the cover.</li> <li>(3) Remove the thermistor <intake detector="" temperature=""></intake></li> <li>(4) Disconnect the lead wire from the cord clamp (5 points)</li> <li>(5) Disconnect the connector (CN20) on the indoor controller board.</li> </ul> </intake></li> </ul>	
<ul> <li>8. Removing the thermistor<liquid detec<br="" pipe="" temperature="">tor&gt; <gas detector="" pipe="" temperature=""></gas></liquid></li> <li>(1) Remove the panel.</li> <li>(2) Bring down the electrical parts box and remove the cover.</li> <li>(3) Remove the drain pan.</li> <li>(4) Remove the thermistor <gas detector="" pipe="" temperature=""> /<liquid detector="" pipe="" temperature="">.</liquid></gas></li> <li>(5) Disconnect the lead wire from the cord clamp</li> <li>(6) Disconnect the connector (CN21)/(CN29) on the indoor controller board.</li> </ul>	

## PARTS LIST



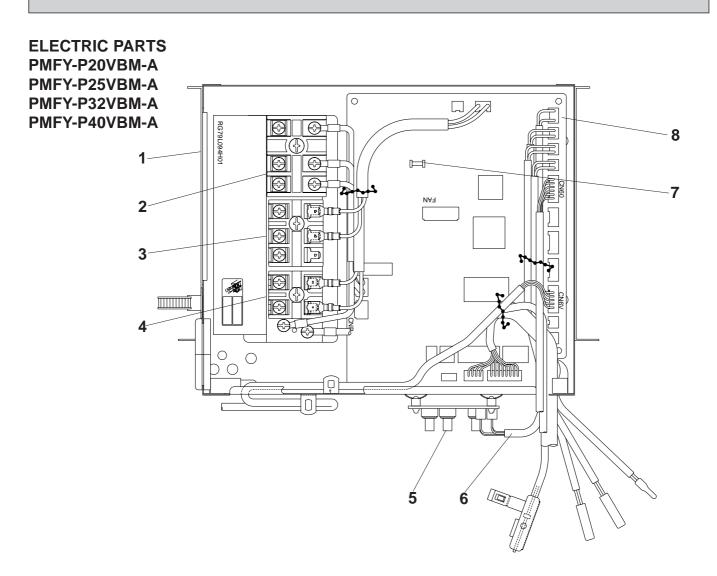
No.		Part Name	Specification	Q'ty/set	_	Wiring	Recom- mended Q'ty	Price	
	Part No.			PMFY-P20/P25 P32/P40	Remarks (Drawing No.)	Diagram		Unit	Amount
				VBM-A	(2.4	Symbol		Unit	Aniouni
1	T7W E11 003	AIR OUTLET GRILLE		1					
2	R01 E00 055	LATCH		2					
3	—	HANGER		2	(DT88D360H03)				
4	R01 E00 099	PANEL HOOK		2					
5	RO1 E01 054	GRILLE CATCH		2					
6	RO1 E01 500	LL.FILTER		1					
7	R01 E02 500	LL.FILTER		1					
8	TW7 E01 691	INTAKE GRILLE		1					
9	R01 E00 054	GRILLE CATCH		2					
10	R01 E00 648	RECEIVER COVER		1					
11	R01 E00 044	MAGNET		2					
12	R01 E00 096	SCREW CAP		1					
13		REMOTE CONTROLLER	PAR-20MAA	1		R.B			

### FUNCTIONAL PARTS PMFY-P20VBM-A PMFY-P25VBM-A PMFY-P32VBM-A PMFY-P40VBM-A



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

			Specification	Q'ty/set PMFY- · VBM-A					Diagram	Recom- mended	Pi	rice
No.	Part No.	Part Name						Remarks (Drawing No.)			Unit	Amount
				P20	P25	P32	P40		Symbol	Q'ty	Unit	Amount
1	—	CABINET		1	1	1	1	(DT00A478G64)				
2	—	ADDRESS BOARD COVER		1	1	1	1	(RG02L277H02)				
3	R01 22A 102	BEARING MOUNT		1	1	1	1					
4	R01 005 103	SLEEVE BEARING		1	1	1	1					
5	R01 E02 114	LINE FLOW FAN		1	1	1	1					
6	R01 E00 079	STABILIZER ASSY		1	1	1	1					
7	R01 E00 092	VANE SLEEVE		1	1	1	1					
8	T7W E39 480	HEAT EXCHANGER		1	1							
Ŭ	T7W E40 480	HEAT EXCHANGER				1	1					
9	R01 E04 529	DRAIN PAN		1	1	1	1					
10	R01 E00 202	THERMISTOR	ROOM	1	1	1	1		TH21			
11	R01 E00 038	GUIDE VANE		1	1	1	1					
12	R01 E01 202	THERMISTOR	LIQUID	1	1	1	1		TH22			
13	R01 E00 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
14	R01 E03 202	THERMISTOR	GAS	1	1	1	1		TH23			
15	R01 E01 002	VANE		1	1	1	1					
16	R01 E01 223	VANE MOTOR		1	1	1	1		MV			
17	R01 E00 110	CASING		1	1	1	1					
18	R01 31K 241	SENSOR HOLDER		1	1	1	1					
19	R01 E01 266	DRAIN SENSOR		1	1	1	1		DS			
20	T7W E02 355	DRAIN PUMP		1	1	1	1		DP			
21	R01 E00 130	MOTOR SUPPORT		1	1	1	1					
22	R01 E03 220	FAN MOTOR		1	1	1	1		MF			
23	R01 E01 105	MOTOR MOUNT		1	1	1	1					
24	R01 E00 527	DRAIN PIPE		1	1	1	1					
25	_	CONTROL BOX COVER		1	1	1	1	(RG00L311G07)				
26	R01 E01 673	SCREW ASSY		1	1	1	1					



		art No. Part Name S	Specification	Q'ty/set	/set		Recom-	Price	
No.	Part No.			PMFY-P20/P25 P32/P40	Remarks (Drawing No.)		mended Q'ty	Unit	Amount
				VBM-A	( J ,				
1	—	CONTROL BOX		1	(RG02B337G10)				
2	T7W A14 716	TERMINAL BLOCK	3P (L,N,⊕)	1	TB2				
3	T7W E00 716	TERMINAL BLOCK	3P (M1,M2,S)	1	TB5				
4	T7W 515 716	TERMINAL BLOCK	2P(1,2)	1	TB15				
5	T7W B01 294	ADDRESS BOARD		1	A.B				
6	R01 E00 304	CABLE ASSY		1					
7	T7W 520 239	FUSE	250V 6.3A	1	FUSE				
8	T7W E11 310	INDOOR CONTROLLER BOARD	with POWER BOARD	1	I.B				

## MITSUBISHI ELECTRIC CORPORATION

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