

March 2013

No. OC250 REVISED EDITION-A

TECHNICAL & SERVICE MANUAL



pliant products, refer to the RoHS Parts List.

CONTENTS

- 8. DISASSEMBLY PROCEDURE-------16
- 9. RoHS PARTS LIST 19





Indoor unit

CAUTIONS RELATED TO NEW REFRIGERANT

Cautions for units utilizing refrigerant R407C

1

Do not use the existing refrigerant piping.

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

Use "low residual oil piping"

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 indoors, and 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 a small amount of ESTER , ETHER or HAB as the lubricant to coat flares and flange connection parts.

If large amount of mineral oil enters, that can cause deterioration of refrigerant oil etc.

Use liquid refrigerant to charge 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.

Use the specified refrigerant only.

Never use any refrigerant other than that specified. Doing so may cause a burst, an explosion, or fire when the unit is being used, serviced, or disposed of. Correct refrigerant is specified in the manuals and on the spec labels provided with our products. We will not be held responsible for mechanical failure, system malfunction, unit breakdown or accidents caused by failure to follow the instructions.

Ventilate the room if refrigerant leaks during operation. If refrigerant comes into contact with a flame, poisonous gases will be released.

[1] Service tools

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

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

[2] Cautions for service

- After recovering all the 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

- ① Direct charging from the cylinder.
 - R407C cylinder available on the market has a syphon pipe.
 - Leave the syphon pipe cylinder standing and recharge it.
 - (By liquid refrigerant)



- (2) Recharge in refrigerant leakage case
 - After recovering all the 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



• Remote controller [PAR-20MAA]

• Once the controls are set, the same operation mode can be repeated by simply pressing the on / off button.





Display



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 H 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. 2 minutes). Please wait until this "H0" indication disappear then start the operation.

SPECIFICATIONS

3-1. SPECIFICATION

3

		Item		PKFY-P32VGM-A	PKFY-P40VGM-A	PKFY-P50VGM-A			
Power V•Hz			V•Hz	Single phase 220V-230V-240V · 50Hz / 220V · 60Hz					
Co	oling ca	pacity	kW	3.6	4.5	5.6			
Hea	ating ca	pacity	kW	4.0	5.0	6.3			
ristic		Cooling	kW		0.07	I			
Electric characteristic	Input	Heating	kW		0.07				
ic cha	o	Cooling	А		0.32				
Electr	Current	Heating	А		0.32				
(m	Exterio unsell sy		—	F	Plastic , white : <0.70Y 8.59/0.97>				
		Height	mm	340					
Dime	ensions	Width	mm	990					
		Depth	mm	235					
He	at exch	anger	—	Cross fin (Aluminum plate fin and copper tube)					
	Fan	× No	—	Linflow fan × 1					
F a	Air flo	ow *2	m³/min	11.5-10	11.5-10.5-9.5-8				
n	Exte static p		Ра						
		motor tput	kW	0.03					
	Insula	tor	_	Polyethylene sheet					
	Air filt	er	—		PP honey comb	-			
	Pipe	Gas side	ϕ mm(in.)	12.7(12.7(1/2")				
dim	ensions	Liquid side	ϕ mm(in.)	6.35(1/4")	9.52(3/8")			
Uni	t drain pi	pe size	ømm	O.I	0.20 (PVC pipe VP-20 connectat	ble)			
Nc	ise lev	el *2	dB	41-38-	36-33	43-40-37-34			
Pro	oduct v	/eight	kg		16				

Note 1. Rating conditions

Cooling : Indoor D.B. 27°C W.B. 19.0°C Outdoor D.B. 35°C W.B. 24°C Heating : Indoor D.B. 20°C Outdoor D.B. 7°C W.B. 6°C

*2. Air flow and the noise level are indicated as High - Medium1 - Medium2 - Low .

3-2. ELECTRICAL PARTS SPECIFICATIONS

Parts name Model	Symbol	PKFY-P32VGM-A	PKFY-P40VGM-A	PKFY-P50VGM-A
Room temperature thermistor	TH21	Resistance $0^{\circ}C/15k\Omega$, 10°	°C/9.6kΩ, 20°C/6.3kΩ, 25°C/5.2k	<Ω, 30°C/4.3kΩ, 40°C/3.0kΩ
Liquid pipe temperature thermistor	TH22	Resistance 0°C/15kΩ, 10°	°C/9.6kΩ, 20°C/6.3kΩ, 25°C/5.2k	<Ω, 30°C/4.3kΩ, 40°C/3.0kΩ
Gas pipe temperature thermistor	TH23	Resistance 0°C/15kΩ, 10°	°C/9.6kΩ, 20°C/6.3kΩ, 25°C/5.2k	<Ω, 30°C/4.3kΩ, 40°C/3.0kΩ
Fuse (Indoor controller board)	FUSE		250V 6.3A	
		PM	14V30-K 220-240V/220V , 50/	60Hz
Fan motor	MF		4 pole Output 30W	
(with inner-thermostat)		Inner-thermostat	OFF 1255°C	
Fan motor capacitor	C1		2.0F 440V	
Vane motor	MV		MP 35 EA DC12V	
			DC12V Stepping motor drive)
Linear expansion valve	LEV	Pc	ort dimension ϕ 3.2 (0 ~ 2000pt	ulse)
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) 250V 10A	

OUTLINES AND DIMENSIONS



WIRING DIAGRAM

PKFY-P32VGM-A, PKFY-P40VGM-A, PKFY-P50VGM-A

Syr	nbol		Name	Symbol		Name	Symbol			Name
I.B		Indoor controller board		C1	Capacitor(fan	Capacitor(fan motor)			Circuit board (Address)	
	CN32	I32 Connector Remote switch		LEV	Linear expans	Linear expansion valve		SW1	Switch	Mode selection
	CN41		HA terminal-A	MF	MF Fan motor(with inner thermo)			SW5	1	Voltage selection
	CN51		Centrally control	MV	MV Vane motor		SW11	1	Address setting 1st digit	
	CN52		Remote indication TH21 Thermistor Room temperature , detection		Room temperature ,detection	1	SW12	1	Address setting 2nd digit	
	F.C Fan phase control		trol			(0°C/15kΩ, 25°C/5.4kΩ)		SW14	1	Connection No.
	FUSE	FUSE (6.3A)		TH22 Pipe temperature,detection/Liguid (0°C/15kΩ, 25°C/5.4kΩ) (0°C/15kΩ, 25°C/5.4kΩ)		1	SWC Option selector			
	SW2	Switch	Capacity code			LED on indoor board for service			rvice	
	SW3		Mode selection	TH23		Pipe temperature,detection/Gas		Mark Meaning Function		
	SW4		Model selection			(0°C/15kΩ, 25°C/5.4kΩ)	LE	D1 Mai	n power supply	Main power supply (Indoor unit:220-240) power on \rightarrow lamp is lit
	X4	Aux.Relay	Aux.Relay(Fan motor)	TB2	Terminal	Power supply	j Le	D2 Pow MA-I	er supply for Remote controller	Power supply for MA-Remote controller on \rightarrow lamp is lit
	ZNR	Varistor	•	TB5	block	Transmission	1			
P.B Inc		Indoor power b	ndoor power board		1	MA-remote controller	1			



Note

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

OC250A

PKFY-P32VGM-A PKFY-P40VGM-A PKFY-P50VGM-A



Capacity Item	PKFY-P32VGM-A, PKFY-P40VGM-A	PKFY-P50VGM-A
Gas pipe	¢12.7 (1/2")	φ15.88(5/8")
Liquid pipe	¢6.35 (1/4")	φ9.52(3/8")

7-1. HOW TO CHECK THE PARTS PKFY-P32VGM-A , PKFY-P40VGM-A, PKFY-P50VGM-A

Parts name	Check method					
Room temperature thermistor (TH21)	Disconnect the connect (Surrounding temperation)		ne resistance with	h a tester.		
Liquid pipe temperature	Normal	Abnormal				
thermistor (TH22)	4.3k Ω~9.6kΩ	Open or short	(Refe	er to the next page f	or a detail.)	
Gas pipe temperature thermistor (TH23)						
Vane motor	Measure the resistan (Surrounding temperation)		inals with a teste	r.		
Orange4	Connector	Norr	nal	Abnormal		
	Brown - Yellow	/				
Red 5 M	Brown - Blue	186 Ω ~	2140	Open or short		
Pink 2 3 m 6 m 1	Red - Orange		21130	opoil of offort		
Yellow Brown Blue	Red - Pink					
Fan motor	Measure the resistar (Surrounding temper		inals with a teste	er.		
3 Red 1	Motor terminal or relay connector	Normal	A	bnormal		
2 White 2	Red - Black	141.2Ω	One	en or short		
	White - Black	131.5Ω				
Protector						
Linear expansion valve	Disconnect the connect the con		e resistance with	n a tester.		
(4) Blue		Normal		Abnormal		
M 6 Brown 2 Yellow	(1)-(5) (2) White-Red Yellow	-(6) (3)-(5) r-Brown Orange-Re	(4)-(6) d Blue-Brown	Open or short	(Refer to the next page for a detail.)	
		150 Ω ±10%				
White Red Orange						



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>



Output	Output					
(Phase)	1	2	3	4		
ø1	ON	OFF	OFF	ON		
ø2	ON	ON	OFF	OFF		
ø3	OFF	ON	ON	OFF		
ø4	OFF	OFF	ON	ON		

<Output pulse signal and the valve operation>

② Linear expansion valve operation



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 locks and vibrates.
 - * When the switch is turned on, 2200 pulse closing valve signal will be send till it goes to (A) point in order to define the valve position.

When the valve move smoothly, there is no noise or vibration occurring from the linear expansion valve : however, when the pulse number moves from $\textcircled{}{}$ to $\textcircled{}{}$ 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.

③ Troubleshooting

looting		
Symptom	Check points	Countermeasures
Operation circuit failure of the micro processor.	Disconnect the connector on the controller board, then con- nect LED for checking. 0 6 0 5 0 4 0 3 0 2 1 Ka LED	Exchange the indoor con- troller board at drive circuit failure.
	Pulse signal will be sent out for 10 seconds as soon as the main switch is turned on. If there is LED with lights on or lights off, it means the operation circuit is abnormal.	
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.	Exchange the linear expan- sion vale.
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 $150\Omega+10\%$.	Exchange the linear expan- sion 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> of the indoor unit by the outdoor multi controller board operation monitor. During fan operation, linear expan- sion valve is closed completely and if there are some leaking, detecting temperature 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. FUNCTION OF DIPSWITCH

PKFY-P32VGM-A, PKFY-P40VGM-A, PKFY-P50VGM-A

The black square (\blacksquare) indicates a switch position.

Cyultah	Dala	Function	Operatio	Remarks	
Switch	Pole	Function	Ction OFF OFF		remarks
	1	Thermistor <intake detection="" temperature="">position</intake>	Built-in remote controller	Indoor unit	Address board
	2	Filter clogging detection	Provided	Not provided	<initial setting=""></initial>
	3	Filter cleaning sign	2500 hr	100 hr	ON OFF 1 2 3 4 5 6 7 8 9 10
	4	Air intake	Effective	Not effective	NOTE: *1 At Heating mode, fan
SW1 Mode	5	Remote indication switching	Thermostat ON signal indication	Fan output indication	operating. *2 At Heating mode, operat-
Selection	6	Humidifier control	Always operated while the heating mode *1	Operated depends on the condition *2	ing heat thermostat ON. *3 SW1-7=OFF, SW1-8=ON
	7	Air flow set in case of	Fix to LOW *3	Fix to EXTRA LOW *3	→Setting air flow. SW1-7=ON, SW1-8=ON →Indoor fan stop.
	8	Heat thermostat OFF	Depends on setting Remote controller *3	Depends on SW1-7	→indoor fan stop.
	9	Auto restart	Effective	Not effective	
	10	Power source ON/OFF	Effective	Not effective	
SW2 Capacity code setting	1~6	MODELS SW2 PKFY- ON OFF ON 1 2 3 4 5 6	PKFY- ON	MODELS SW2 PKFY- P50VGM-A OFF 1 2 3 4 5 6	Indoor controller board Set while the unit is off. <initial setting=""> Set for each capacity.</initial>
	1	Heat pump/Cooling only	Cooling only models	Heat pump models	Indoor controller board
	2	Louver	Available	Not available	Set while the unit is off. <initial setting=""> OFF 12345678910 NOTE: *4 At cooling mode, each angle can be used only 1 hour. *5 SW3-9 setting</initial>
	3	Vane	Available	Not available	
014/0	4	Vane swing function	Available	Not available	
SW3 Function	5	Vane horizontal angle	Second setting	First setting	
Selection	6	Vane cooling limit angle setting *4 Indoor linear expansion	Horizontal angle	Down B,C	
	7	valve opening	Effective	Not effective	PKFY-P32VGM-A = OFF PKFY-P40VGM-A = ON
	8	Heater 4 deg up	Not effective	Effective	PKFY-P50VGM-A = OFF
	9	Target Superheat setting *5		6 degrees	
	10	Target Sub cool setting	15 degrees	10 degrees	
SW4 Unit Selection	1~5		ON OFF 1 2 3 4 5		Indoor controller board Set while the unit is off. <initial setting=""> ON OFF 1 2 3 4 5</initial>

The black square (\blacksquare) indicates a switch position.

Switch	Pole		Operation by switch	Remarks
SW11 1st digit address setting SW12 2nd digit address setting	ary swito	$ \begin{array}{c} \text{SW12} \\ \text{SW12} \\ \text{SW12} \\ \text{SW11} \\ \text{SW12} \\ \text{SW1} \\ \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. <initial setting=""> SW12 SW11 SW12 SW11 SW12 SW11 SW11 SW11 SW11 SW11 SW12 SW12 SW12 SW11 SW11 SW11 SW11 SW12</initial>
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 <initial setting=""> SW14</initial>
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 <initial setting=""> 220V 240\</initial>

Г

PKFY-P32/40/50VGM-A



OPERATION PROCEDURE	PHOTOS & ILLUSTRATION
 4. REMOVING THE VANE MOTOR (1) Disconnect the connector CN6V on the indoor controller board. (2) Remove the 2 screws of the vane motor, disconnect the lead wire and remove the vane motor from the shaft. 	(Photo 4) Nozzle assembly Van motor Van motor
 5. REMOVING THE THERMISTOR (1) Removing the room thermistor TH21. ① Disconnect the connector CN20<red> on the indoor controller board.</red> ② Remove the room thermistor from the holder. (2) Removing the liquid pipe thermistor TH22. ① Disconnect the connector CN21<white> on indoor controller board.</white> ② Remove the liquid pipe thermistor with set to the pipe. (3) Removing the gas pipe thermistor TH23. ① Disconnect the connector CN29<black> on indoor controller board.</black> 	(Photo 5) Liquid thermistor Room thermistor Electrical parts box
 6. REMOVING THE NOZZLE ASSEMBLY Disconnect the connector CN6V on the indoor controller board. Disconnect the lead wire of the vane motor. Remove the corner cover. Pull the drain hose out from the nozzle assembly. Unhook the hook of the lower nozzle assembly and pull the nozzle assembly toward you, then remove the nozzle assembly by sliding it down. 	(Photo 6) Hook Drain hose Nozzle assembly Corner cover
 7. REMOVING THE ELECTRICAL PARTS BOX (1) Remove the terminal block cover. (2) Remove the front panel. (see Photo 1) (3) Disconnect the vane motor connector. (4) Disconnect the fan motor connector from the fan motor. (5) Remove the liquid / gas pipe thermistor. (see Photo 5) (6) Remove the electrical parts box (2 screws). 	(Photo 7) Liquid pipe thermistor Electrical parts box Fan motor connector
 8. REMOVING THE FAN MOTOR (1) Remove the terminal block cover. (2) Remove the front panel. (see Photo 1) (3) Remove the electrical parts box. (see Photo 7) (4) Remove the nozzle assembly. (see Photo 6) (5) Remove the fan motor leg fixing 3 screws. (6) Unscrew the set screws using by alankey and remove it by sliding the fan motor to right. (7) Remove the 4 screws and remove the motor cover from the fan motor leg. 	(Photo 8) (Photo 9) Motor cover



RoHS PARTS LIST



No.	RoHS	Parts No.	Parts Name	Specifications	PKFY-P32VGM-A PKFY-P40VGM-A PKFY-P50VGM-A	Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty
1	G	R01 89Y 651	FRONT PANEL		1			
2	G	R01 08Y 092	VANE SLEEVE		1			
3	G	R01 08Y 691	FRONT GRILLE		1			
4	G	R01 A32 500	AIR FILTER		2			
5	G	R01 08Y 002	AUTO VANE		1			
6	G	R01 08Y 096	SCREW CAP		3			
7	G	R01 A00 304	ADDRESS CABLE		1			
8	G	T7W E01 294	ADDRESS BOARD		1		A.B	
9	G	R01 08Y 658	CORNER COVER - L		1			
10	G	R01 08Y 635	BOX ASSEMBLY		1			
11	G	R01 08Y 808	BACK PLATE		1			
12	G	R01 08Y 623	UNDER COVER		1			
13	G	R01 10Y 658	CORNER COVER - R		1			

PoHS PARTS LIST

ELECTRICAL PARTS PKFY-P32VGM-A PKFY-P40VGM-A PKFY-P50VGM-A



No.	ŝ			Specifications	PKFY-			Remarks	Wiring	Recom-
	RoHS	Parts No. Parts Name	Parts Name		P32VGM-A	P40VGM-A	P50VGM-A		Diagram	mended Q'ty
1	G	T7W A02 762	FAN MOTOR		1	1	1	MF		
	G	R01 J53 480	HEAT EXCHANGER		1					
2		R01 E26 480	HEAT EXCHANGER			1				
		R01 E27 480	HEAT EXCHANGER				1			
3	G	R01 E22 114	LINE FLOW FAN		1	1	1			
4	G	R01 E04 103	SLEEVE BEARING		1	1	1			
5	G	R01 08Y 102	BEARING MOUNT		1	1	1			
6	G	R01 08Y 106	BEARING SUPPORT		1	1	1			
7	G	T7W A01 675	FAN GUARD		1	1	1			
8	G	R01 07Y 524	DRAIN PLUG		1	1	1			
9	G	R01 08Y 530	NOZZLE ASSY		1	1	1			
10	G	R01 08Y 059	ARM		2	2	2			
11	G	R01 08Y 038	GUIDE VANE		10	10	10			
12	G	R01 10Y 038	GUIDE VANE		4	4	4			
13	G	R01 E13 223	VANE MOTOR		1	1	1	MV		
14	G	R01 08Y 527	DRAIN HOSE		1	1	1			
15	G	R01 08Y 135	MOTOR COVER		1	1	1			
16	G	R01 08Y 105	RUBBER MOUNT		2	2	2			
17	G	T7W E32 716	TERMINAL BLOCK	3P(L , N ,⊕)	1	1	1	TB2		
18	G	T7W E35 716	TERMINAL BLOCK	3P(M1,M2,S)	1	1	1	TB5		
19	G	R01 E21 246	TERMINAL BLOCK	2P(1,2)	1	1	1	TB15		
20	G	R01 E13 255	RUN CAPACITOR	2.0 µF 440V	1	1	1	C1		
21	G	R01 E38 313	POWER BOARD		1	1	1	P.B		
22	G	T7W E53 310	CONTROLLER BOARD		1	1	1	I.B		
23	G	R01 E06 239	FUSE	250V 6.3A	1	1	1	FUSE		
24	G	R01 H08 202	ROOM THERMISTOR		1	1	1	TH21		
25	G	R01 H13 202	LIQUID PIPE THERMISTOR		1	1	1	TH22		
26	G	R01 H17 202	GAS PIPE THERMISTOR		1	1	1	TH23		
27	G	R01 08Y 130	MOTOR SUPPORT		1	1	1			
28	G	R01 H11 401	LINEAR EXPANSION VALVE		1	1	1	LEV		
29	G		REMOTE CONTROLLER	PAR-20MAA	1	1	1			

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE : TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU TOKYO 100-8310, JAPAN