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No. OC329 REVISED EDITION-A

SERVICE MANUAL

Series PCA Ceiling Suspended R407C/R410A

Indoor unit [Model names]

PCA-RP71HA

PCA-RP125HA

[Service Ref.] PCA-RP71HA PCA-RP125HA Revision:

RoHS PARTS LIST is added.
Some descriptions have

been modified.

• Please void OC329.

Note:

- This manual describes only service data of the indoor units.
- RoHS compliant products have <G> mark on the spec name plate.
- For servicing of RoHS compliant products, refer to the RoHS Parts List.



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1-1. OUTDOOR UNIT'S SERVICE MANUAL

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Service Ref.	Service Manual No.
PUHZ-RP35/50/60/71/100/125/140VHA(1) PUHZ-RP100/125/140YHA(1)	OC334
PUHZ-RP71/100/125/140VHA(1)-A	OC337
PUHZ-RP200/250YHA(1)	OC338
PUHZ-RP200/250YHA(1)-A	OC339
PU(H)-P·VGAA.UK PU(H)-P·YGAA.UK	OC336

1-2. TECHNICAL DATA BOOK

Series (Outdoor unit)	Manual No.
PUHZ-RP·VHA(-A) PUHZ-RP·YHA(-A)	OCS01
PU(H)-P·VGAA.UK PU(H)-P·YGAA.UK	OCS02
PUHZ-RP-VHA2 PUHZ-RP-YHA2	OCS05
PUHZ-P·VHA	OCS06
PU(H)-P·VHA PU(H)-P·YHA	OCS07

CAUTIONS RELATED TO NEW REFRIGERANT

Cautions for units utilising refrigerant R407C

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"

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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 ESTER, ETHER or HAB as the lubricant to coat flares and flange connection parts.

If large amount of mineral oil enter, 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.

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

[1] Cautions for 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.

[2] 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 it.
 - (By liquid refrigerant)



(2) Recharge in refrigerant leakage case

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

 $\cdot \text{Do}$ not release the refrigerant in the air.

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

[3] 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.			
0	Refrigerant cylinder.	·For R407C ·Top of cylinder (Brown)		
		·Cylinder with syphon		
8	Refrigerant recovery equipment.			

CAUTIONS RELATED TO NEW REFRIGERANT

Cautions for units utilising refrigerant R410A

Use new refrigerant pipes.

In case of using the existing pipes for R22, be careful with the followings.

- For RP125 be sure to perform replacement operation before test run.
- \cdot Change flare nut to the one provided with this product.
- Use a newly flared pipe.
- Avoid using thin pipes.

Make sure that the inside and outside of refrigerant piping is clean and it has no contamination such as sulfur hazardous for use, oxides, dirt, shaving particles, etc.

In addition, use pipes with specified thickness.

Contamination inside refrigerant piping can cause deterioration of refrigerant oil etc.

Store the piping to be used during installation indoors and keep both ends of the piping sealed until just before brazing. (Leave elbow joints, etc. in their packaging.)

If dirt, dust or moisture enter into refrigerant cycle, that can cause deterioration of refrigerant oil or malfunction of compressor.

Use ester oil, ether oil or alkylbenzene oil (small amount) as the refrigerant oil applied to flares and flange connections.

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

Charge refrigerant from liquid phase of gas cylinder.

If the refrigerant is charged from gas phase, composition change may occur in refrigerant and the efficiency will be lowered.

[1] Cautions for service

- (1) Perform service after collecting the refrigerant left in unit completely.
- (2) Do not release refrigerant in the air.
- (3) After completing service, charge the cycle with specified amount of refrigerant.
- (4) When performing service, install a filter drier simultaneously. Be sure to use a filter drier for new refrigerant.

[2] Additional refrigerant charge

When charging directly from cylinder

- · Check that cylinder for R410A on the market is syphon type.
- · Charging should be performed with the cylinder of syphon stood vertically. (Refrigerant is charged from liquid phase.)

Do not use refrigerant other than R410A.

If other refrigerant (R22 etc.) is used, chlorine in refrigerant can cause deterioration of refrigerant oil etc.

Use a vacuum pump with a reverse flow check valve.

Vacuum pump oil may flow back into refrigerant cycle and that can cause deterioration of refrigerant oil etc.

Use the following tools specifically designed for use with R410A refrigerant.

The following tools are necessary to use R410A refrigerant.

Tools for R410A		
Gauge manifold	Flare tool	
Charge hose Size adjustment gauge		
Gas leak detector Vacuum pump adaptor		
Torque wrench	Electronic refrigerant	
	charging scale	

Keep the tools with care.

If dirt, dust or moisture enter into refrigerant cycle, that can cause deterioration of refrigerant oil or malfunction of compressor.

Do not use a charging cylinder.

If a charging cylinder is used, the composition of refrigerant will change and the efficiency will be lowered.

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



[3] Service tools

Use the below service tools as exclusive tools for R410A refrigerant.

No.		Specifications		
1	Gauge manifold	Only for R410A		
		·Use the existing fitting specifications. (UNF1/2)		
		·Use high-tension side pressure of 5.3MPa·G or over.		
2	Charge hose	·Only for R410A		
		·Use pressure performance of 5.09MPa·G or over.		
3	Electronic scale			
4	Gas leak detector	·Use the detector for R134a, R407C or R410A.		
5	Adaptor for reverse flow check	·Attach on vacuum pump.		
6	Refrigerant charge base			
0	Refrigerant cylinder	·Only for R410A Top of cylinder (Pink)		
		Cylinder with syphon		
8	Refrigerant recovery equipment			

PART NAMES AND FUNCTIONS

Indoor (Main) Unit Left/right guide vanes Change the direction of airflow Air outlet from the horizontal blower. S \$ 5 365 Oil filter (Air intake) * It prevents oil from Up/down guide vanes getting into the unit. Change the direction of airflow from the vartical blower. Air intake

Remote controller

3

Once the controls are set, the same operation mode can be repeated by simply pressing the ON/OFF button.

Operation buttons





Caution

- Only the Power on indicator lights when the unit is stopped and power supplied to the unit.
- If you press a button for a feature that is not installed at the indoor unit, the remote controller will display the "Not Available" message.

If you are using the remote controller to drive multiple indoor units, this message will appear only if he feature is not present at every unit connected.

• When power is turned ON for the first time, it is normal that "PLEASE WAIT" is displayed on the room temperature indication (For max. 2minutes). Please wait until this "PLEASE WAIT" indication disappear then start the operation.

SPECIFICATIONS

	Service Ref.				PCA-RP71HA		
	Mode	Mode			Cooling	Heating	
	Power su	Power supply(phase, cycle, voltage)			Single phase,	50Hz, 230V	
		Input		kW	0.09	0.09	
		Running current		A	0.43	0.43	
		Starting current		A	0.86	0.86	
Ι.	External	finish			Stainles	s steel	
DR UNIT	Heat exchanger				Plate fi	Plate fin coil	
	Fan	Fan Fan(drive) x No.			Sirocco fan (direct) x 2		
		Fan motor output		kW	0.04		
Įğ		Airflow(Low-High) m		m³/min(CFM)	17-19(600-670)		
١ź	External static pres		sure	Pa(mmAq)	mAq) 0(direct blow)		
-	Operatio	Operation control & Thermostat			Remote contro	oller & built-in	
	Noise lev	/el(Low-High)		dB	34-38		
	Unit drain pipe I.D.		mm(in.)	26(1)		
	Dimensio	Dimensions W D H		mm(in.)	1,136(44-3/4)		
				mm(in.)	650(25	5-5/8)	
				mm(in.)	280(11)	
	Weight		kg(lbs)	41(9	90)		

	Service Ref.				PCA-RP125HA		
	Mode				Cooling	Heating	
	Power supply(phase, cycle, voltage)				Single phase, 5	Single phase, 50Hz, 230V	
	Input		kW	0.26	0.26		
	Running current		A	1.19	1.19		
	Starting current			A	2.38	2.38	
DR UNIT	External finish				Stainless	Stainless steel	
	Heat exchanger				Plate fin coil		
	Fan	n Fan(drive) x No.			Sirocco fan (c	lirect) x 4	
	Fan motor output Airflow(Low-High) External static pressure		Fan motor output		0.08 + 0	.08	
ğ			Airflow(Low-High)		30-38(1,060	-1,350)	
E			sure	Pa(mmAq)	0(direct blow)		
_	Operation control & Thermostat				Remote controll	er & built-in	
	Noise level(Low-High)		dB	44-50			
	Unit drain pipe I.D.			mm(in.)	26(1)		
	Dimensions W mm(in.) D mm(in.) H mm(in.) Weight kg(lbs)		W	mm(in.)	1,520(59-7/8)		
			D	mm(in.)	650(25-5/8)		
			H	mm(in.)	280(1	1)	
			56(124)				

NOISE CRITERION CURVES



OUTLINES AND DIMENSIONS

PCA-RP71HA

(Defrigerant-pipe connection(gas pipe side/flared connection : 5/8F) (a) Refrigerant-pipe connection(liquid pipe side/flared connection : 3/8F) (a) Flexible hose(accessory) → Drainage pipe connection(26mm I.D.) (a) Knock out hole for behind refrigerant-piping arrangement (b) Knock out hole for upper refrigerant-piping arrangement (c) Knock out hole for upper refrigerant-piping arrangement (c) Terminal block(indoor/outdoor connecting line) (c) Terminal block(remote controller) (c) Terminal block(remote controller) (c) Knock out hole (duct for fresh air intake): 2- ϕ 200 (c) Option parts:duct flange(ϕ 200). model: PAC-SF280F-E(1 pc.)









WIRING DIAGRAM

PCA-RP71HA PCA-RP125HA

[LEGEND]

SYN	1BOL	NAME	SYMBOL	NAME
P.B		INDOOR POWER BOARD	MF1, MF2	FAN MOTOR
I. B		INDOOR CONTROLLER BOARD	C1, C2	CAPACITOR(FAN MOTOR)
	FUSE	FUSE (T6.3AL250V)	H2	DEW PREVENTION HEATER
	ZNR	VARISTOR	TB2	TERMINAL BLOCK(INDOOR UNIT
	CN2L	CONNECTOR (LOSSNAY)		POWER (OPTION))
	CN32	CONNECTOR (REMOTE SWITCH)	TB4	TERMINAL BLOCK(INDOOR/OUTDOOR
	CN41	CONNECTOR (HA TERMINAL-A)		CONNECTING LINE)
CN51		CONNECTOR (CENTRALLY CONTROLL)	TB5,TB6	TERMINAL BLOCK(REMOTE CONTROLLER
	LED1	POWER SUPPLY (I. B)		TRANSMISSION LINE)
LED2		POWER SUPPLY (R. B)	TH1	ROOM TEMP. THERMISTOR
LED3		TRANSMISSION(INDOOR-OUTDOOR)		(0°C/15kΩ, 25°C/5.4kΩ DETECT)
	X1	RELAY (DEW PREVENTION HEATER)	TH2	PIPE TEMP.THERMISTOR/LIQUID
X4 X5 X6 SW1 SW2 SWE		RELAY(FAN MOTOR)	(0°C/15kΩ, 25°C/5.4kΩ	$(0^{\circ}C/15k\Omega, 25^{\circ}C/5.4k\Omega DETECT)$
		RELAY(FAN MOTOR)	TH5	COND./ EVA.TEMP.THERMISTOR
		RELAY(FAN MOTOR)		$(0^{\circ}C/15k\Omega, 25^{\circ}C/5.4k\Omega DETECT)$
		SWITCH (MODEL SELECTION) %See Table 1.	R.B	WIRED REMOTE CONTROLLER BOARD
		SWITCH (CAPACITY CODE) %See Table 2.		
		SWITCH (EMERGENCY OPERATION)		



NO	FEC.
INU.	IEQ.

1. Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.

2.Indoor and outdoor connecting wires are made with polarities, make wiring matching terminal numbers (S1,S2,S3). 3.Symbols used in wiring diagram above are, _____: Connector, ...: Terminal (block).

%1; When work to supply power separately to Indoor and Outdoor unit was applied, refer to Fig1.

OF

%2; For power supply system of this unit, refer to the caution label located near this diagram.

PCA-RP71HA PCA-RP125HA

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Unit : mm



9-1. TROUBLESHOOTING

9

<Error code display by self-diagnosis and actions to be taken for service (summary)>

Present and past error codes are logged and displayed on the wired remote controller or controller board of outdoor unit. Actions to be taken for service and the inferior phenomenon reoccurrence at field are summarized in the table below. Check the contents below before investigating details.

Note : Refer to the manual of outdoor unit for malfunction-diagnosis method by remote controller.

Unit conditions at service	Error code	Actions to be taken for service (summary)
The inferior phenomenon is	Displayed	Judge what is wrong and take a corrective action according to "SELF-DIAGNOSIS ACTION TABLE" (9-2).
reoccurring.	Not displayed	Identify the cause of the inferior phenomenon and take a corrective action according to "TROUBLESHOOTING BY INFERIOR PHENOMENA" (9-3).
The inferior phenomenon is	Logged	 Consider the temporary defects such as the work of protection devices in the refrigerant circuit including compressor, poor connection of wiring, noise and etc. Re-check the symptom, and check the installation environment, refrigerant amount, weather when the inferior phenomenon occurred, and wiring related. Reset error code logs and restart the unit after finishing service. There is no abnormality in electrical components, controller boards, and remote controller.
not reoccurring.	Not logged	 ①Recheck the abnormal symptom. ②Identify the cause of the inferior phenomenon and take a corrective action according to "TROUBLESHOOTING BY INFERIOR PHENOMENA" (9-3). ③Continue to operate unit for the time being if the cause is not ascertained. ④There is no abnormality in electrical components, controller boards, remote controller etc.

9-2. SELF-DIAGNOSIS ACTION TABLE

Note: Refer to the manual of outdoor unit for the details of display such as F, U, and other E.

Error Code	Meaning of error code and detection method	Cause	Countermeasure
P1	 Abnormality of room temperature thermistor (TH1) The unit is in three-minute resume prevention mode if short/open of thermistor is detected. Abnormal if the unit does not reset normally after three minutes. (The unit returns to normal operation, if it has normally reset.) Constantly detected during cooling, drying, and heating operation. Short: 90°C or more Open: -40°C or less 	 Defective thermistor characteristics. Contact failure of connector (CN20) on the indoor controller board. (Insert failure) Breaking of wire or contact failure of thermistor wiring. Defective indoor controller board. 	 ①~③ Check resistance value of thermistor. 0°C ·····15.0kΩ 10°C ····9.6kΩ 20°C ····6.3kΩ 30°C ····4.3kΩ 40°C ····3.0kΩ If you put force on (draw or bend) the lead wire with measuring resistance value of thermistor breaking of wire or contact failure can be detected. ② Check contact failure of connector (CN20) on the indoor controller board. Refer to 9-6. Turn the power on again and check restart after inserting connector again. ④ Check room temperature display on remote controller. Replace indoor controller board if there is abnormal difference with actual room temperature. Turn the power off, and on again to operate
P2	 Abnormality of pipe temperature thermistor/Liquid (TH2) The unit is in three-minute resume prevention mode if short/open of thermistor is detected. Abnormal if the unit does not reset normally after three minutes. (The unit returns to normal operation, if it has normally reset.) Constantly detected during cooling, drying, and heating (except defrosting) operation. Short: 90°C or more Open: -40°C or less 	 Defective thermistor characteristics. Contact failure of connector (CN21) on the indoor controller board. (Insert failure) Breaking of wire or contact failure of thermistor wiring. Defective refrigerant circuit is causing thermistor temperature of 90°C or more or -40°C or less. Defective indoor controller board. 	 after check. (1)~(3) Check resistance value of thermistor. For characteristics, refer to (P1) above. (2) Check contact failure of connector (CN21) on the indoor controller board. Refer to 9-6. Turn the power on and check restart after inserting connector again. (4) Check pipe <liquid> temperature with remote controller in test run mode. If pipe <liquid> temperature is exclusively low (in cooling mode) or high (in heating mode), refrigerant circuit may have defective.</liquid></liquid> (5) Check pipe <liquid> temperature with remote controller in test run mode. If there is exclusive difference with actual pipe <liquid> temperature, replace indoor controller board.</liquid></liquid> Turn the power off, and on again to operate after check.
Ρ4	 Abnormality of drain sensor (DS) Suspensive abnormality, if short/open of thermistor is detected for 30 seconds continuously. Turn off compressor and indoor fan. Short/open is detected for 30 seconds continuously during suspensive abnormality. (The unit returns to normal operation, if it has normally reset.) Detect the following condition. During cooling and drying operation. In case that pipe <liquid> temperature - room temperature <-10deg (Except defrosting)</liquid> When pipe <liquid> temperature or room temperature is short/open temperature.</liquid> During drain pomp operation. 	 Defective thermistor characteristics Contact failure of connector (CN31) on the indoor controller board. (Insert failure). Breaking of wire or contact failure of drain sensor wiring. Defective indoor controller board. 	 ①~③ Check resistance value of thermistor. O°C ······6.0kΩ 10°C ·····3.9kΩ 20°C ····2.6kΩ 30°C ····1.8kΩ 40°C ····1.3kΩ ② Check contact failure of connector (CN31) on the indoor controller board. Refer to 9-6. Turn the power on again and check restart after inserting connector again. ④ Replace indoor controller board if drain pump operates with the line of drain sensor connector CN31-① and ② is short-circuited, and abnormality reappears. Turn the power off, and on again to operate after check.
Ρ5	 Malfunction of drain pump (DP) Suspensive abnormality, if thermistor of drain sensor is let heat itself and temperature rises slightly. Turn off compressor and indoor fan. Drain pomp is abnormal if the condition above is detected during suspensive abnormality. Constantly detected during drain pump operation. 	 Malfunction of drain pump Defective drain Clogged drain pump Clogged drain pipe Attached drop of water at the drain sensor Drops of drain trickles from lead wire. Clogged filter is causing wave of drain. Defective indoor controller board. 	 Check if drain-up machine works. Check drain function. Check the setting of lead wire of drain sensor and check clogs of the filter. Replace indoor controller board if drain pump operates with the line of drain sensor connector CN31-① and ② is short-circuited and abnormality reappears. Refer to 9-6. Turn the power off, and on again to operate after check.

Error Code	Meaning of error code and detection method	Cause	Countermeasure			
Ρ6	 Freezing/overheating protection is working Freezing protection (Cooling mode) The unit is in six-minute resume prevention mode if pipe <liquid condenser="" evaporator="" or=""> temperature stays under</liquid> -15°C for three minutes, three minutes after the compressor started. Abnormal if it stays under -15°C for three minutes again within 16 minutes after six-minute resume prevention mode. <frost mode="" prevention=""></frost> If pipe <liquid condenser-evaporator="" or=""> temperature is 2°C or below when 16 minutes has passed after compressor starts operating, unit will start operating in frost prevention mode which stops compressor operation. After that, when pipe <liquid condenser="" evaporator="" or=""> temperature stays 10°C or more for 3 minutes, frost prevention mode will be released and compressor will restart its operation.</liquid></liquid> ② Overheating protection (Heating mode) The units is in six-minute resume prevention mode if pipe <condenser evaporator=""> temperature is detected as over 70°C after the compressor started. Abnormal if the temperature of over</condenser> 	 (Cooling or drying mode) Clogged filter (reduced airflow) Short cycle of air path Low-load (low temperature) operation beyond the tolerance range Defective indoor fan motor Fan motor is defective. Indoor controller board is defective. Indoor controller board is defective. Defective outdoor fan control Overcharge of refrigerant Defective refrigerant circuit (clogs) (Heating mode) Clogged filter (reduced airflow) Short cycle of air path Over-load (high temperature) operation beyond the tolerance range Defective indoor fan motor 	 ① Check clogs of the filter. ② Remove shields. ④ Measure the resistance of fan motor's winding. Measure the output voltage of fan's connecto (FAN) on the indoor controller board. *The indoor controller board should be normal when voltage of AC 220~240V is detected while fan motor is connected. Refer to 9-6. ⑤ Check outdoor fan motor. ⑥ Check operating condition of refrigerant circuit. (Heating mode) ① Check clogs of the filter. ② Remove shields. ④ Measure the resistance of fan motor's winding. Measure the output voltage of fan's connecto (FAN) on the indoor controller board. *The indoor controller board should be 			
	70°C is detected again within 10 minutes after six-minute resume prevention mode.	 Fail finden is defective. Indoor controller board is defective. Defective outdoor fan control Overcharge of refrigerant Defective refrigerant circuit (clogs) Bypass circuit of outdoor unit is defective. 	 Measure the output voltage of fan's connector (FAN) on the indoor controller board. *The indoor controller board should be normal when voltage of AC 220~240V is detected while fan motor is connected. Refer to 9-6. © Check outdoor fan motor. © Check operating condition of refrigerant circuit. 			
P8	Abnormality of pipe temperature <cooling mode=""> Detected as abnormal when the pipe tem- perature is not in the cooling range 3 min- utes later of compressor start and 6 min- utes later of the liquid or condenser/evapo- rator pipe is out of cooling range. Note 1) It takes at least 9 min. to detect. Note 2) Abnormality P8 is not detected in drying mode. Cooling range : -3 deg ≧ (TH-TH1) TH: Lower temperature between: liquid pipe temperature (TH2) and con- denser/evaporator temperature (TH5) TH1: Intake temperature <heating mode=""> When 10 seconds have passed after the compressor starts operation and the hot adjustment mode has finished, the unit is detected as abnormal when condenser/evaporator pipe temperature is not in heating range within 20 minutes. Note 3) It takes at least 27 minutes to detect abnormality. Note 4) It excludes the period of defrosting (Detection restarts when defrosting mode is over) Heating range : 3 deg ≦ (TH5-TH1)</heating></cooling>	 Slight temperature difference between indoor room temperature and pipe <liquid or condenser / evaporator> temperature thermistor</liquid Shortage of refrigerant Disconnected holder of pipe <liquid <br="" condenser="" or="">evaporator> thermistor</liquid> Defective refrigerant circuit Converse connection of extension pipe (on plural units connection) Converse wiring of indoor/ outdoor unit connecting wire (on plural units connection) Defective detection of indoor room temperature and pipe <condenser evaporator=""> temperature thermistor</condenser> Stop valve is not opened completely. 	 ()-() Check pipe <liquid <br="" condenser="" or="">evaporator> temperature with room temperature display on remote controller and outdoor controller circuit board. Pipe <liquid condenser="" evaporator="" or=""> temperature display is indicated by setting SW2 of outdoor controller circuit board as follows.</liquid></liquid> (Conduct temperature check with outdoor controller circuit board after connecting 'A-Control Service Tool(PAC-SK52ST)'. () Check converse connection of extension pipe or converse wiring of indoor/outdoor unit connecting wire. 			

Error Code	Meaning of error code and detection method	Cause	Countermeasure
P9	Abnormality of pipe temperature ther- mistor / Condenser-Evaporator (TH5) The unit is in three-minute resume pro- tection mode if short/open of thermistor is detected. Abnormal if the unit does not get back to normal within three min- utes. (The unit returns to normal opera- tion, if it has normally reset.) Constantly detected during cooling, dry- ing, and heating operation (except defrosting) Short: 90°C or more Open: -40°C or less	 Defective thermistor characteristics Contact failure of connector (CN29) on the indoor controller board. (Insert failure) Breaking of wire or contact failure of thermistor wiring. Temperature of thermistor is 90°C or more or -40°C or less caused by defective refrigerant circuit. Defective indoor controller board. 	 ①~③ Check resistance value of thermistor. For characteristics, refer to (P1) above. ② Check contact failure of connector (CN29) on the indoor controller board. Refer to 9-6. Turn the power on and check restart after inserting connector again. ④ Operate in test run mode and check pipe <condenser evaporator=""> temperature with outdoor controller circuit board. If pipe <condenser evaporator=""> temperature is exclusively low (in cooling mode) or high (in heating mode), refrigerant circuit may have defective.</condenser></condenser> ⑤ Operate in test run mode and check pipe <condenser evaporator=""> temperature with outdoor control circuit board. If there is exclusive difference with actual pipe <condenser evaporator=""> temperature replace indoor controller board. There is no abnormality if none of above comes within the unit. Turn the power off and on again to operate.</condenser></condenser> (In case of checking pipe temperature with outdoor controller circuit board, be sure to connect A-control service tool (PAC-SK52ST).
E0 or E4	 Remote controller transmission error(E0)/signal receiving error(E4) Abnormal if main or sub remote controller can not receive normally any transmission from indoor unit of refrigerant address "0" for three minutes. (Error code : E0) Abnormal if sub remote controller could not receive for any signal for two minutes. (Error code: E0) Abnormal if indoor controller board can not receive normally any data from remote controller board or from other indoor controller board for three minutes. (Error code: E4) Indoor controller board cannot receive any signal from remote controller for two minutes. (Error code: E4) 	 Contact failure at transmission wire of remote controller All remote controllers are set as "sub" remote controller. In this case, E0 is displayed on remote controller, and E4 is displayed at LED (LED1, LED2) on the outdoor controller circuit board. Mis-wiring of remote controller. Defective transmitting receiving circuit of remote controller Defective transmitting receiving circuit of indoor controller board of refrigerant address "0". Noise has entered into the transmission wire of remote controller. 	 Check disconnection or looseness of indoor unit or transmission wire of remote controller. Set one of the remote controllers "main". If there is no problem with the action above. Check wiring of remote controller. Total wiring length: max.500m (Do not use cablex 3 or more) The number of connecting indoor units: max.16units The number of connecting remote controller. The number of connecting remote controller: max.20uits When it is not the above-mentioned problem of ①~③ Diagnose remote controllers. a) When "RC OK" is displayed, Remote controller board. b) When "RC NG" is displayed, Replace remote controller. c) When "RC CS" is displayed, Replace remote controller. c) When "RC CS" is displayed, Replace remote controller. c) When "RC CS" is displayed, Replace remote controller. c) When "RC CS" is displayed, Replace remote controller. c) When "RC CS" is displayed, Replace remote controller. c) When "RC CS" is displayed, I the unit is not normal after replacing indoor controller board in group control, indoor controller board of address "0" may be abnormal.
E3 or E5	 Remote controller transmission error(E3)/signal receiving error(E5) Abnormal if remote controller could not find blank of transmission path for six seconds and could not transmit. (Error code: E3) Remote controller receives transmitted data at the same time, compares the data, and when detecting it, judges different data to be abnormal 30 continuous times. (Error code: E3) Abnormal if indoor controller board could not find blank of transmission path. (Error code: E5) Indoor controller board receives trans- mitted data at the same time, compares the data, and when detecting it, judges different data to be abnormal 30 continuous times. (Error code: E5) 	 Two remote controller are set as "main." (In case of 2 remote con- trollers) Remote controller is connected with two indoor units or more. Repetition of refrigerant address. Defective transmitting receiving circuit of remote controller. Defective transmitting receiving circuit of indoor controller board. Noise has entered into trans- mission wire of remote con- troller. 	 Set a remote controller to main, and the other to sub. Remote controller is connected with only one indoor unit. The address changes to a separate setting. Biagnose remote controller. When "RC OK"is displayed, remote controller. When "RC OK"is displayed, remote controllers have no problem. Put the power off,and on again to check. When "RC NG"is displayed, replace indoor controller board. b) When "RC CA" is displayed, replace remote controller. c) When "RC E3" or "ERC 00-66" is displayed, noise may be causing abnormality.

Error Codo	Meaning of error code and detection method	Course	Countermeasure
Enor Code	Indoor/outdoor unit communication	Contact failure short circuit or	* Check LED display on the outdoor control cir-
E6	 error (Signal receiving error) Abnormal if indoor controller board cannot receive any signal normally for six minutes after putting the power on. Abnormal if indoor controller board cannot receive any signal normally for three minutes. Consider the unit abnormal under the following condition: When two or more indoor units are connected to one outdoor unit, indoor controller board cannot receive a signal for three minutes from outdoor controller circuit board, a signal which allows outdoor controller circuit board to transmit signals. 	 Bornal and c, only converse wiring) of indoor/outdoor unit connecting wire Defective transmitting receiving circuit of indoor controller board Defective transmitting receiving circuit of indoor controller board Noise has entered into indoor/ outdoor unit connecting wire. 	 cuit board. (Connect A-control service tool, PAC-SK52ST.) Refer to EA-EC item if LED displays EA-EC. ① Check disconnection or looseness of indoor/ outdoor unit connecting wire of indoor unit or outdoor unit. Check all the units in case of twin triple indoor unit system. ②~④ Turn the power off, and on again to check. If abnormality generates again, replace indoor controller board or outdoor controller circuit board. * Other indoor controller board may have defective in case of twin triple indoor unit system.
E7	Indoor/outdoor unit communication error (Transmitting error) Abnormal if "1" receiving is detected 30 times continuously though indoor controller board has transmitted "0".	 Defective transmitting receiving circuit of indoor controller board Noise has entered into power supply. Noise has entered into outdoor control wire. 	①~③ Turn the power off, and on again to check. If abnormality generates again, replace indoor controller board.
Fb	Abnormality of indoor controller board Abnormal if data cannot be normally read from the nonvolatile memory of the indoor controller board.	 Defective indoor controller board. 	① Replace indoor controller board.
E1 or E2	 Abnormality of remote controller control board Abnormal if data cannot be normally read from the nonvolatile memory of the remote controller control board. (Error code: E1) Abnormal if the clock function of remote controller cannot be normally operated. (Error code: E2) 	① Defective remote controller.	① Replace remote controller.
	Forced compressor stop	 Drain pump trouble 	① Check the drain pump.
	 (due to water leakage abhormanty) When the intake temperature subtracted with liquid pipe temperature is less than -10°C, drain sensor is detected whether it is soaked in the water or not at the interval 	 Drain defective Drain pump clogging Drain pipe clogging 	② Please confirm whether water can be drained.
	of 90 seconds. (Drain pump will start operating when the drain sensor is detected to be soaked in the water.)	③ Open circuit of drain sensor side heater	③ Confirm the resistance of the drain sensor.
	② The unit has a water leakage abnormality when the following conditions, a and b, are satisfied while the above-mentioned detection	④ Contact failure of drain sensor connector	Check the connector contact failure.
PA (2502) (2500)	 is performed. a) The drain sensor is detected to be soaked in the water 10 times in a row. b) The intake temperature subtracted with liquid pipe temperature is detected to be less than -10°C for a total of 30 minutes. (When the drain sensor is detected to 	 Dew condensation on drain sensor Drain water descends along lead wire. Drain water waving due to filter clogging. 	⑤ Check the drain sensor leadwire mounted. Check the filter clogging
	 be NOT soaked in the water, the detection record of a and b will be cleared.) The drain sensor detection is performed in constitution of the cleared of the provided of the	⑥ Extension piping connection difference at twin, triple, quadruple system.	[®] Check the piping connection.
	the unit stops operating, during heating or fan operation, when the unit stops because of some abnormality) *Once the water leakage abnormality is	⑦ Mis-wiring of indoor/ outdoor connecting at twin, triple, quadruple system.	⑦ Check the indoor/ outdoor connecting wires.
	detected, abnormality state will not be released until the main power is reset.	® Room temperature thermistor / liquid pipe temperature thermis- tor detection is defective.	[®] Check the room temperature display of remote controller. Check the indoor liquid pipe temperature display of outdoor controller board.

9-3. TROUBLESHOOTING BY INFERIOR PHENOMENA

Note: Refer to the manual of outdoor unit for the detail of remote controller.

Phenomena	Cause	Countermeasure
(1)LED2 on indoor controller board is off.	When LED1 on indoor controller board is also off. Power supply of rated voltage is not supplied to out- door unit.	 Check the voltage of outdoor power supply terminal block (L, N) or (L₃, N). When AC 220~240V is not detected. Check the power wiring to outdoor unit and the breaker.
	^② Defective outdoor controller circuit board.	 When AC 220~240V is detected. —Check (2) (below). (2) Check the voltage between outdoor terminal block S1 and S2. When AC 220~240V is not detected. Check the fuse on outdoor controller circuit board. Check the wiring connection. When AC 200 a totuc board.
	③ Power supply of 220~240V is not supplied to indoor unit.	 When AC 220-240V is detected. —Check ③ (below). Check the voltage between indoor terminal block S1 and S2. When AC 220-240V is not detected. Check indoor/outdoor unit connecting wire for mis-wiring. When AC 220-240V is detected.
	④ Defective indoor power board.	 —Check ④ (below). ④ Check voltage output from CN2S on indoor power board (DC13.1V). Refer to 9-6-1. • When no voltage is output. Check the wiring connection. • When output voltage is between DC12.5V and DC13.7V.
	⑤ Defective indoor controller board.	 —Check (5) (below). (5) Check the wiring connection between indoor controller board and indoor power board. Check the fuse on indoor controller board. If no problems are found, indoor controller board is defective.
	(For the separate indoor/outdoor unit power sup-	
	Power supply of 220~240V AC is not supplied to indoor unit.	 Check the voltage of indoor power supply terminal block (L,N). When AC220~240V is not detected. Check the power supply wiring. When AC220~240V is detected.
	② The connectors of the optional replacement kit are not used.	 Check that there is no problem in the method of connecting the connectors. When there are problems in the method of connecting the connectors. Connect the connector correctly referring to installation manual of an optional kit. When there is no problem in the determined of the connect of the conn
	③ Defective indoor controller board.	 When AC220~240V is detected.
	④ Defective indoor power board.	 Check (@ (below). Check voltage output from CN2S on indoor power board. When no voltage output. Check the wiring connection between CNDK on indoor power board. If no problem are found,indoor power board is defective. When DC12.5~13.7V is detected. Check the wiring connection between CN2S on indoor power board and CN2S on indoor power board and CN2S on indoor power board and CN2S on indoor power board. If no problem are found,indoor controller board is defective.
	 When LED1 on indoor controller board is lit. Mis-setting of refrigerant address for outdoor unit (There is no unit corresponding to refrigerant address "0".) 	 Reconfirm the setting of refrigerant address for outdoor unit Set the refrigerant address to "0". (For grouping control system under which 2 or more outdoor units are connected, set one of the units to "0".) Set refrigerant address using SW1 (3-6) on outdoor controller circuit board.

Note: Refer to the manual of outdoor unit for the detail of remote

	controller.					
Phenomena	Cause	Countermeasure				
(2)LED2 on indoor controller board is blinking.	When LED1 on indoor controller board is also blinking. Connection failure of indoor/outdoor unit connecting wire	Check indoor/outdoor unit connecting wire for connection failure.				
	 When LED1 is lit. Mis-wiring of remote controller wires Under twin triple indoor unit system, 2 or more indoor units are wired together. 	① Check the connection of remote con- troller wires in case of twin triple indoor unit system. When 2 or more indoor units are wired in one refrigerant system, connect remote controller wires to one of those units.				
	 ② Refrigerant address for outdoor unit is wrong or not set. Under grouping control system, there are some units whose refrigerant address is 0. ③ Short-cut of remote controller wires 					
	 ③ Short-cut of remote controller wires ④ Defective remote controller 	 ③④ Remove remote controller wires and check LED2 on indoor controller board. When LED2 is blinking, check the short-cut of remote controller wires. When LED2 is lit, connect remote controller wires again and: if LED2 is blinking, remote controller is defective; if LED2 is lit, connection failure of remote controller terminal block etc. has returned to normal. 				

9-4. WHEN WIRED REMOTE CONTROLLER OR INDOOR UNIT MICRO COMPUTER TROUBLES

- 1. If there is not any other wrong when trouble occurs, emergency operation starts as the indoor controller board switch (SWE) is set to ON.
 - During the emergency operation the indoor unit is as follows;
 - (1) Indoor fan high speed operation (2) Drain-up machine operation
- 2. When emergency operating for COOL or HEAT, setting of the switch (SWE) on the indoor controller board and outdoor unit emergency operation are necessary.
- 3. Check items and notices as the emergency operation
 - (1) Emergency operation cannot be used as follows;
 - When the outdoor unit is something wrong.
 - When the indoor fan is something wrong.
 - When drain over flow protected operation is detected during self-diagnosis. (Error code : P5)
 - (2) Emergency operation will be serial operation by the power supply ON/OFF. ON/OFF or temperature, etc. adjustment is not operated by the remote controller.
 - (3) Do not operate for a long time as cold air is blown when the outdoor unit starts defrosting operation during heat emergency operation.
 - (4) Cool emergency operation must be within 10 hours. Other wire, heat exchanger of indoor unit may get frosted.
 - (5) After completing the emergency operation, return the switch setting, etc. in former state.
 - (6) Since vane does not work at emergency operation, position the vane slowly by hand.

9-5. HOW TO CHECK THE PARTS PCA-RP71HA PCA-RP125HA

Parts name	Check points						
Room temperature thermistor (TH1)	Disconnect the connector then measure the resistance using a tester. (Surrounding temperature $10^{\circ}C \sim 30^{\circ}C$)						
Pipe temperature thermistor (TH2) Condenser/Evaporator temperature thermistor (TH5)	Normal 4.3kΩ~9.6kΩ	Abnormal Open or shor	t (Refer to <t< td=""><td colspan="3">(Refer to <thermistor characteristic="" graph=""> for a detail.)</thermistor></td></t<>	(Refer to <thermistor characteristic="" graph=""> for a detail.)</thermistor>			
Fan motor(MF) Protector Relay connector	Measure the resistance between the terminals using a tester. (Winding temperature $20^{\circ}C$)						
White	Connector	No	rmal	Abnormal			
	Connector	PCA-RP71HA	PCA-RP125HA	Abriormai			
	White-Black	140.5Ω	75.6Ω				
Red D	Black–Blue	15.4Ω	36.7Ω	Open or short			
	Blue-Yellow	28.5Ω	23.6Ω	Open of short			
	Yellow–Red	80.4Ω	47.8Ω				
Black	Protector OPEN ∶135±5℃ CLOSE∶95±15℃						



9-6. TEST POINT DIAGRAM 9-6-1. Power board PCA-RP71HA PCA-RP125HA

> **8173** 0110 1170d o 017 612 C 744 0 0 P 2417 2 0 SI L412 0 R15 0 0 0 217 1170 0 R414 0 ------ 0 THEFT. 0 0 0 0 1177 C C115 意名丑罗英 R41 10 °**+** E170 0 0 0 P C े यहीय \odot 42 °D8711° R412 10 • 0 0 (000) 18V1 0 0 0 8173 B ° 15 RG00B435B

> > CNSK Connect to the indoor controller board (CNDK) Between ① to ③ 220-240V AC

Connect to the indoor controller board (CN2D) Between ① to ③ 12.6-13.7V DC (Pin① (+))

CN2S

9-6-2. Indoor controller board PCA-RP71HA PCA-RP125HA



9-7. FUNCTIONS OF DIP SWITCH AND JUMPER WIRE

Each function is controlled by the dip switch and the jumper wire on control p.c. board.

SW1 and SW2 are equipped only for service parts. Model setting and capacity setting are memorized in the nonvolatile memory of the control p.c. board of the unit.

Jumper wire	Functions	Setting by the dip switch and jumper wire	Remarks
SW1	Model settings	For service board	
SW2	Capacity settings	MODELSService boardPCA-RP71HA1 2 3 4 5 	
J41 J42	Pair number setting with wireless remote controller	Wireless remote controller settingControl PCB setting0 \bigcirc 1 \times 2 \bigcirc 3 ~ 9 \times	<settings at="" factory="" of="" shipment="" time=""> Wireless remote controller: 0 Control PCB: ○ (for both J41 and J42) Four pair number settings are supported. The pair number settings of the wireless remote controller and indoor control PCB (J41/J42) are given in the table on the left. ('×' in the table indicates the jumper line is disco- nnected.)</settings>
JP1	Unit type setting	ModelJP1Without TH5OWith TH5X	There is no jumper (JP1) because these models have the cond./eva. temperature thermistor (TH5).
JP3	Indoor controller board type setting	Indoor controller board type JP3 Factory shipment × Service parts O	

(Marks in the table below) Jumper wire (\bigcirc : Short \times : Open)

PCA-RP71HA PCA-RP125HA









11 PARTS LIST (non-RoHS compliant)



				Q'ty / set		Demoster	Wiring	Deserve	Pr	ice
No.	Parts No.	Parts Name	Specifications	PCA	-RP	Remarks	Diagram	mended		
				71HA	125HA		Symbol	Q'ty	Unit	Amount
1	R01 13N 809	LEG-L		2	2					
2	R01 13N 662	SIDE PLATE-L		1	1					
2	T7W E02 676	REAR PANEL		1						
3	T7W E03 676	REAR PANEL			1					
	R01 12N 669	UNDER PANEL		1						
4	R01 13N 669	UNDER PANEL			1					
5	R01 13N 503	FILTER RAIL		2	3					
6	R01 E05 500	OIL FILTER		3	4					
7		DRAIN HOSE SUPPORT		1	1	(BG00K145G02)				
8	R01 13N 667	SIDE COVER		1	1					
9	R01 13N 808	LEG-R		2	2					
10	R01 13N 668	SERVICE PANEL		1	1					
11	R01 13N 661	SIDE PLATE-R		1	1					
12	T7W E02 651	FRONT PANEL		1						
12	T7W E03 651	FRONT PANEL			1					
12	R01 12N 002	VANE ASSY		2						
13	R01 13N 002	VANE ASSY			3					
14	R01 13N 086	GUIDE VANE ASSY-6L		1	1					
15	R01 13N 087	GUIDE VANE ASSY-6C			1					
16	R01 13N 085	GUIDE VANE ASSY-6R		1	1					
17	R01 13N 533	VANE HOLDER		1	2					
18	—	VANE SUPPORT		1	2	(BG00K146G02)				
19	—	FRONT SUPPORT		1	2	(BG00T773G01)				



Part numbers that are circled are not shown in the figure.

					-	Q'ty	/ set		Wiring	Basam	Pr	ice
No.	Par	ts No).	Parts Name	Specifications	PCA	-RP	Remarks (Drawing No.)	Diagram	mended		
						71HA	125HA		Symbol	Q'ty	Unit	Amount
1	R01	12N	110	T. CASING ASSY		2						
Ľ	R01	13N	110	T. CASING ASSY			4					
2	R01	12N	114	SIROCO FAN		2						
	R01	13N	114	SIROCO FAN			4					
3	T7W	E02	111	UNDER CASING-L		1						
Ľ	T7W	E03	111	UNDER CASING-L			2					
4	T7W	E12	675	FAN GUARD-S		1	2					
5	R01	E51	202	ROOM TEMPERATUR TERMISTOR		1	1		TH1			
6	T7W	E14	675	FAN GUARD-L		1						
Ľ	T7W	E13	675	FAN GUARD-L			2					
7	T7W	E00	111	UNDER CASING-R		1						
Ľ	T7W	E01	111	UNDER CASING-R			2					
8	T7W	E11	675	FAN GUARD-S		1	2					
a	R01	12N	529	DRAINPAN ASSY		1						
9	R01	13N	529	DRAINPAN ASSY			1					
10		_		FAN PLATE		1		(BG00N756G15)				
		—		FAN PLATE			2	(BG00N756G14)				
11		_		PIPE SUPPORT		1	1	(BG02T500H04)				
12	R01	13N	202	PIPE TEMPERATURE TERMISTOR		1	1		TH2			
13	R01	E63	202	CONDENSER/EVAPORATOR TEMPERATURE TERMISTOR		1	1		TH5			
14	R01	H04	480	HEAT EXCHANGER		1						
	T7W	K07	480	HEAT EXCHANGER			1					
15		—		FAN PLATE SUPPORT-R		1	1	(BG00N893G15)				
16		—		FAN PLATE SUPPORT-C		1	1	(BG00N893G14)				
17	T7W	E20	762	FAN MOTOR	PA6V40-CB	1			MF1			
Ľ	T7W	E21	762	FAN MOTOR	PA4V80-CA		2		MF1,2			
18	R01	45K	130	MOTOR LEG		1	2					
19	R01	83E	126	PIECE FOR MOTOR		1	2					
20		—		FAN PLATE SUPPORT-L		1	1	(BG00N893G13)				
21	R01	13N	521	PIPE COVER		1	1					
22	R01	13N	072	DRAIN HOSE COVER		1	1					
23	R01	811	105	RUBBER MOUNT		2	4					

ELECTRICAL PARTS PCA-RP71HA PCA-RP125HA



	Parts No.			Q'ty / set			Wirin a		Price	
No.		Parts Name	Specifications	PCA	A-RP	Remarks	Diagram	Recom-		
				71HA	125HA		Symbol	Q'ty	Unit	Amount
1	R01 18J 054	SUPPORT		9	9					
2	T7W E41 310	CONTROLLER BOARD		1	1		I.B			
3	R01 E02 239	FUSE	250V 6.3A	1	1		FUSE			
4	R01 E02 313	POWER BOARD		1	1		P.B			
5	R01 A00 255	RUN CAPACITOR	2.5 μ F, 440V	1			C1			
6	R01 576 255	RUN CAPACITOR	3 μ F, 440V		2		C1,C2			
7	—	CONTROL BOX COVER		1	1	(BG02N713H05)				
8	_	CONTROL BOX		1	1	(BG00T759G13)				
9	T7W E23 716	TERMINAL BLOCK	3P(S1, S2, S3)	1	1		TB4			
10	R01 556 246	TERMINAL BLOCK	2P(1, 2)	1	1		TB5			
11	T7W E08 713	REMOTE CONTROLLER	PAR-21MAA	1	1		R.B			

12 RoHS PARTS LIST



	S				Q'ty / set		Pomarks	Wiring	Recom-	Pr	ice
No	. Ho	Parts No.	Parts Name	Specifications	PC/	A-RP	(Drawing No.)	Diagram	mended		
	L.				71HA	125HA		Symbol	Q'ty	Unit	Amount
1	G	R01 14N 809	LEG-L		2	2					
2	G	R01 14N 662	SIDE PLATE-L		1	1					
2	G	T7W 14N 676	REAR PANEL		1						
³	G	T7W 15N 676	REAR PANEL			1					
	G	R01 14N 669	UNDER PANEL		1						
4	G	R01 15N 669	UNDER PANEL			1					
5	G	R01 14N 503	FILTER RAIL		2	3					
6	G	R01 14N 500	OIL FILTER		3	4					
7	G	—	DRAIN HOSE SUPPORT		1	1	(BG00K145G02)				
8	G	R01 14N 667	SIDE COVER		1	1					
9	G	R01 14N 808	LEG-R		2	2					
10	G	R01 14N 668	SERVICE PANEL		1	1					
11	G	R01 14N 661	SIDE PLATE-R		1	1					
4.0	G	T7W 14N 651	FRONT PANEL		1						
12	G	T7W 15N 651	FRONT PANEL			1					
4.2	G	R01 15N 002	VANE ASSY		2						
13	G	R01 16N 002	VANE ASSY			3					
14	G	R01 14N 086	GUIDE VANE ASSY-6L		1	1					
15	G	R01 14N 087	GUIDE VANE ASSY-6C			1					
16	G	R01 14N 085	GUIDE VANE ASSY-6R		1	1					
17	G	R01 14N 533	VANE HOLDER		1	2					
18	G		VANE SUPPORT		1	2	(BG00K146G02)				
19	G	<u> </u>	FRONT SUPPORT		1	2	(BG00T773G01)				



Part numbers that are circled are not shown in the figure.

	6			_	Q'ty	/ set	Remarks	Winin a	_	Pr	ice
No.	Н	Parts No.	Parts Name	Specifications	PCA	-RP	Remarks	Diagram	mended		
	2				71HA	125HA		Symbol	Q'ty	Unit	Amount
4	G	R01 14N 110	T. CASING ASSY		2						
'	G	R01 15N 110	T. CASING ASSY			4					
2	G	R01 14N 114	SIROCO FAN		2						
2	G	R01 15N 114	SIROCO FAN			4					
2	G	T7W 16N 111	UNDER CASING-L		1						
3	G	T7W 17N 111	UNDER CASING-L			2					
4	G	T7W 18N 675	FAN GUARD-S(L)		1	2					
5	G	R01 15N 202	ROOM TEMPERATUR TERMISTOR		1	1		TH1			
6	G	T7W 15N 675	FAN GUARD-L		1						
0	G	T7W 16N 675	FAN GUARD-L			2					
7	G	T7W 14N 111	UNDER CASING-R		1						
'	G	T7W 15N 111	UNDER CASING-R			2					
8	G	T7W 17N 675	FAN GUARD-S(R)		1	2					
9	G	R01 15N 529	DRAINPAN ASSY		1						
	G	R01 16N 529	DRAINPAN ASSY			1					
10	G	_	FAN PLATE		1		(BG00N756G15)				
10	G	_	FAN PLATE			2	(BG00N756G14)				
11	G	_	PIPE SUPPORT		1	1	(BG02T500H04)				
12	G	R01 16N 202	PIPE TEMPERATURE TERMISTOR		1	1		TH2			
13	G	R01 17N 202	CONDENSER / EVAPORATOR TEMPERATURE TERMISTOR		1	1		TH5			
4.4	G	R01 J68 480	HEAT EXCHANGER		1						
14	G	T7W H55 480	HEAT EXCHANGER			1					
15	G	_	FAN PLATE SUPPORT-R		1	1	(BG00N893G15)				
16	G	_	FAN PLATE SUPPORT-C		1	1	(BG00N893G14)				
47	G	T7W 14N 762	FAN MOTOR	PA6V40-CB	1			MF1			
11	G	T7W 15N 762	FAN MOTOR	PA4V80-CA		2		MF1,2			
18	G	R01 14N 130	MOTOR LEG		1	2					
19	G	R01 14N 126	PIECE FOR MOTOR		1	2					
20	G		FAN PLATE SUPPORT-L		1	1	(BG00N893G13)				
21	G	R01 14N 521	PIPE COVER		1	1					
22	G	R01 14N 072	DRAIN HOSE COVER		1	1					
23	G	R01 14N 105	RUBBER MOUNT		2	4					

ELECTRICAL PARTS PCA-RP71HA PCA-RP125HA



No.	RoHS	Parts No.	Parts Name	Specifications	Q'ty / set PCA-RP		Remarks	Wiring Diagram	Recom- mended	Price	
					71HA	125HA		Symbol	Q'ty	Unit	Amount
1	G	R01 20J 054	SUPPORT		9	9					
2	G	T7W E51 310	CONTROLLER BOARD		1	1		I.B			
3	G	R01 E06 239	FUSE	250V 6.3A	1	1		FUSE			
4	G	R01 E38 313	POWER BOARD		1	1		P.B			
5	G	R01 14N 255	RUN CAPACITOR	2.5 μ F, 440V	1			C1			
6	G	R01 E12 255	RUN CAPACITOR	3 μF , 440V		2		C1,C2			
7	G	_	CONTROL BOX COVER		1	1	(BG02N713H05)				
8	G	—	CONTROL BOX		1	1	(BG00T759G13)				
9	G	R01 E20 246	TERMINAL BLOCK	3P(S1, S2, S3)	1	1		TB4			
10	G	R01 E21 246	TERMINAL BLOCK	2P(1, 2)	1	1		TB5			
11	G	T7W E11 713	REMOTE CONTROLLER	PAR-21MAA	1	1		R.B			

ТМ Mr.SLIM



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