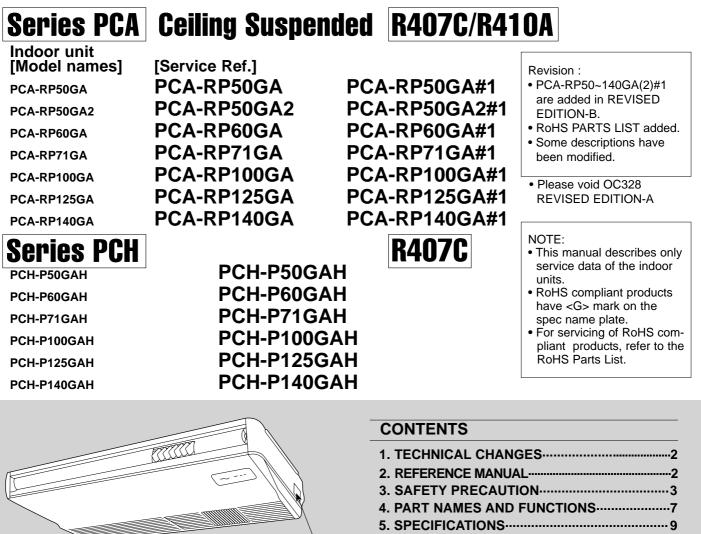


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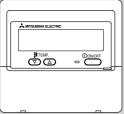
No. OC328 REVISED EDITION-B

SERVICE MANUAL



INDOOR UNIT

Model name indication



REMOTE CONTROLLER

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Mr.SLIM™

TECHNICAL CHANGES

- PCA-RP50GA(2) → PCA-RP50GA(2)#1
- PCA-RP60GA → PCA-RP60GA#1

1

- PCA-RP71GA → PCA-RP71GA#1
- PCA-RP100GA → PCA-RP100GA#1
- PCA-RP125GA → PCA-RP125GA#1

PCA-RP140GA → PCA-RP140GA#1

INDOOR CONTROLLER BOARD(I.B.) has been changed.

2 REFERENCE MANUAL

2-1. OUTDOOR UNIT'S SERVICE MANUAL

Service Ref.	Service Manual No.		
MXZ-8A140VA / VA1/ VA2 / VA3	OC316		
SUZ-KA50/60/71VA(1).TH	OC322		
SUZ-KA50/60/71VA(1).TH-A	OC323		
PUHZ-RP35/50/60/71/100/125/140VHA(1)	OC334		
PUHZ-RP100/125/140YHA	00334		
PUHZ-RP71/100/125/140VHA(1)-A	OC337		
PUHZ-RP200/250YHA(1)(2)	OC338		
PUHZ-RP200/250YHA(1)-A	OC339		
PU(H)-P • VGAA.UK	OC336		
PU(H)-P • YGAA.UK			
PUHZ-P100/125/140VHA.UK	OC359		
PUHZ-RP35/50/60/71/100/125/140VHA2(1)			
PUHZ-RP100/125/140YHA2(1)	OC374		
PUHZ-RP35/50/60/71/100VHA3			
PUHZ-RP100YHA3			
PU(H)-P71/100VHA(1).UK	OC379		
PU(H)-P100/125/140YHA(1).UK	00013		
PUHZ-P100/125/140VHA2(1).UK	OCH415 / OCB415		
PUHZ-RP71/100/125/140VHA2-A	OCH422 / OCB422		
PUHZ-RP100/125/140YHA2-A	00114227000422		
PUHZ-BP100/125/140VHA-A	OCH423 / OCB423		
PUHZ-BP200/250YHA-A	00117237 000723		
PUHZ-P200/250YHA2	OCH424 / OCB424		
PUHZ-HRP71/100VHA	OCH425 / OCB425		
PUHZ-HRP100/125YHA			
PUHZ-RP200/250YHA2	OCH428 / OCB428		

2-2. TECHNICAL DATA BOOK

Series (Outdoor unit)	Manual No.
PUHZ-RP • HA(-A)	OCS01
PU(H)-P • GAA.UK	OCS02
SUZ-KA • VA	OCS03
PUHZ-RP • HA2	OCS05
PUHZ-P • HA	OCS06
PU(H)-P • HA	OCS07
PUHZ-P • VHA2, PUHZ-P • YHA	OCS08
PUHZ-RP • HA2-A	OCS09
PUHZ-BP • HA	OCS10
PUHZ-HRP • HA	OCS11

3

SAFETY PRECAUTION

3-1. ALWAYS OBSERVE FOR SAFETY

Before obtaining access to terminal, all supply circuits must be disconnected.

3-2. 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"

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

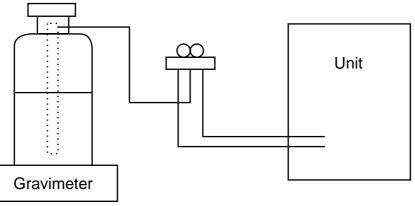
After recovering the all refrigerant in the unit, proceed to working.

•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.
 - $\cdot \text{Leave}$ 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.
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		
0	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 RP60/71VHA3 and RP100/125/140, be sure to perform replacement operation before test run.
- 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			

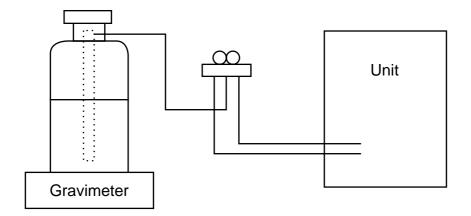
Keep the tools with care.

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

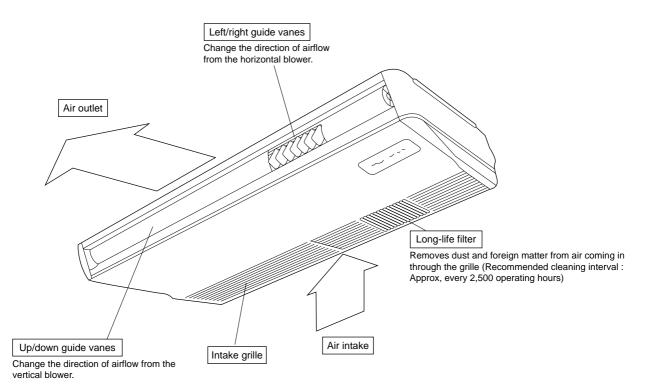
Use the below service tools as exclusive tools for R410A refrigerant.

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	
7	Refrigerant cylinder	·Only for R410A Top of cylinder (Pink)
		Cylinder with syphon
8	Refrigerant recovery equipment	

PART NAMES AND FUNCTIONS

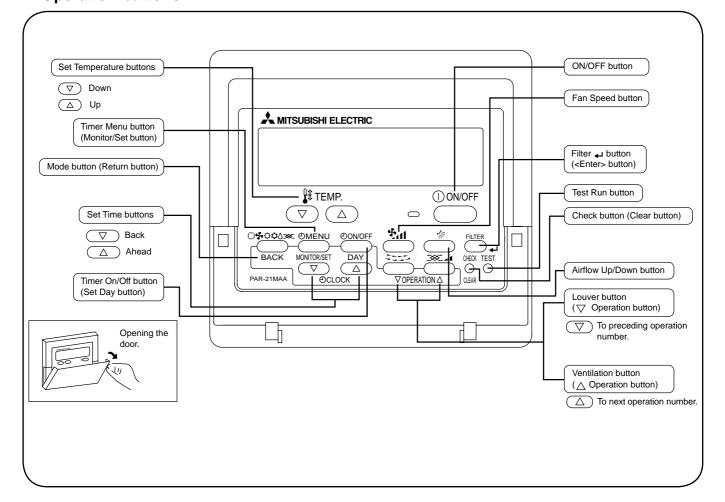
Indoor Unit

4

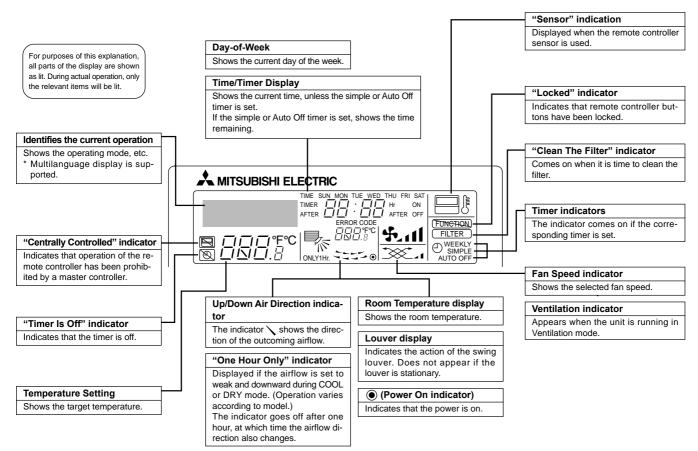


Remote controller

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



Display



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 the parent unit.

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 F	Ref.			PCA-RP50GA, F		
	Mode	pply(phase, cycle, vo	oltogo)		Cooling	Heating	
	Powersu	Input	ullage)	kW	Single phase 0.09	, 50Hz, 230V 0.09	
		Running current		A	0.09	0.09	
	Starting current A				1.20	1.20	
	External finish				Munsell 0.70		
l⊑	Heat excl				Plate f		
INDOOR UNIT	Fan	Fan(drive) x No.			Sirocco fan		
R		Fan motor output		kW	0.0		
ŏ		Airflow(Low-Medium2-Me		m³/min(CFM)	10-11-12-13(35	5-390-425-460)	
E		External static press		Pa(mmAq)	0(direc	t blow)	
1		n control & Thermost			Remote contro	oller & built-in	
		el(Low-Medium2-Mediu	um1-High)	dB	37-38-		
	Unit drain			mm(in.)	26		
	Dimensio	ns		mm(in.)	1,000(3		
			D	mm(in.) mm(in.)	680(2)		
	Weight		Н	kg(lbs)	210(8		
				Kg(ib3)			
	Service F	Ref.			PCA-RP50GA2, F		
	Mode		oltogo)		Cooling	Heating	
	Fowersu	pply(phase, cycle, vo Input	ulaye)	kW	0.12 Single phase	, 50Hz, 230V 0.12	
		Running current		A	0.53	0.53	
		Starting current		A	1.27	1.27	
	External f				Munsell 0.70		
닅	Heat exch				Plate f		
INDOOR UNIT	Fan	Fan(drive) x No.			Sirocco fan		
SR		Fan motor output		kW	0.0	70	
Įğ		Airflow(Low-Medium2-Me		m³/min(CFM)	14-15-16-18(49		
ΪŻ		External static press		Pa(mmAq)	0(direc		
		control & Thermost			Remote contro		
		el(Low-Medium2-Mediu	um1-High)	dB	37-39-		
	Unit drain Dimensio		14/	mm(in.) mm(in.)	26 1,310(5		
	Dimensio	115	D W	mm(in.)	680(2)		
			H	mm(in.)	210(8		
	Weight		- 11	kg(lbs)	34(
	, i i i gi i i	Weight kg(lbs)					
		.					
	Service F	Ref.			PCA-RP60GA, F		
	Mode				Cooling	Heating	
	Mode	pply(phase, cycle, vo	oltage)	k/W/	Cooling Single phase,	Heating 50Hz, 230V	
	Mode	pply(phase, cycle, vo Input	oltage)	kW	Cooling Single phase 0.12	Heating 50Hz, 230V 0.12	
	Mode	pply(phase, cycle, vo Input Running current	oltage)	А	Cooling Single phase, 0.12 0.53	Heating 50Hz, 230V 0.12 0.53	
	Mode Power su External f	pply(phase, cycle, vo Input Running current Starting current inish	bltage)		Cooling Single phase 0.12	Heating 50Hz, 230V 0.12 0.53 1.27	
NIT	Mode Power su External f Heat exch	pply(phase, cycle, vo Input Running current Starting current inish nanger	bltage)	А	Cooling Single phase 0.12 0.53 1.27	Heating .50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97	
(UNIT	Mode Power su External f Heat exch	pply(phase, cycle, vo Input Running current Starting current inish nanger Fan(drive) x No.	bltage)	AA	Cooling Single phase 0.12 0.53 1.27 Munsell 0.70	Heating .50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil	
	Mode Power su External f Heat exch	pply(phase, cycle, vo Input Running current Starting current inish nanger Fan(drive) x No. Fan motor output		A A kW	Cooling Single phase 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70	
	Mode Power su External f Heat exch	pply(phase, cycle, vo Input Running current Starting current inish hanger Fan(drive) x No. Fan motor output Airflow(Low-Medium2-Me	dium1-High)	A A kW m³/min(CFM)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(495)	Heating .50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635)	
INDOOR UNIT	Mode Power su External f Heat exch Fan	pply(phase, cycle, vo Input Running current Starting current inish hanger Fan(drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press	dium1-High) sure	A A kW	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(49) 0(direct)	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow)	
	Mode Power su External f Heat exch Fan Operation	pply(phase, cycle, vo Input Running current Starting current inish Fanger Fan(drive) x No. Fan motor output Airllow(Low-Medium2-Me External static press o control & Thermosta	dium1-High) sure at	A A kW m³/min(CFM) Pa(mmAq)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(49) 0(direct Remote control	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) oller & built-in	
	Mode Power su External f Heat exch Fan Operation Noise leve	pply(phase, cycle, vo Input Running current Starting current inish Fanger Fan(drive) x No. Fan motor output Airllow(Low-Medium2-Me External static press o control & Thermosta	dium1-High) sure at	A A kW m ³ /min(CFM) Pa(mmAq) dB	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(49) 0(direct Remote control 37-39-	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) pller & built-in 41-43	
	Mode Power su External f Heat exct Fan Operation Noise leve Unit drain	pply(phase, cycle, vo Input Running current Starting current inish Fan(drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press o control & Thermostr I(Low-Medium2-Mediu pipe I.D.	dium1-High) sure at um1-High)	A A kW m³/min(CFM) Pa(mmAq) dB mm(in.)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(49) 0(direct Remote control 37-39- 26(Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1)	
	Mode Power su External f Heat exch Fan Operation Noise leve	pply(phase, cycle, vo Input Running current Starting current inish Fan(drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press o control & Thermostr I(Low-Medium2-Mediu pipe I.D.	dium1-High) sure at 	A A wW m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(49) 0(direct Remote contr 37-39- 26(1,310(5	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) oller & built-in 41-43 1) 1-9/16)	
	Mode Power su External f Heat exct Fan Operation Noise leve Unit drain	pply(phase, cycle, vo Input Running current Starting current inish Fan(drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press o control & Thermostr I(Low-Medium2-Mediu pipe I.D.	dium1-High) sure at 	A A wW m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(49) 0(direct Remote contr 37-39- 26(1,310(5 680(20)	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Dler & built-in 41-43 '1) 1-9/16) 5-3/4)	
	Mode Power sur External f Heat exch Fan Operation Noise leve Unit drain Dimension	pply(phase, cycle, vo Input Running current Starting current inish Fan(drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press o control & Thermostr I(Low-Medium2-Mediu pipe I.D.	dium1-High) sure at 	A A wW m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.)	Cooling Single phase. 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(493) 0(direct Remote contro 37-39- 26(1,310(5 680(20) 210(8)	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 5-3/4) -1/4)	
	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension	pply(phase, cycle, vo Input Running current Starting current inish Fan(drive) x No. Fan motor output Airllow(Low-Medium2-Me External static press control & Thermosta I(Low-Medium2-Mediu pipe I.D. ns	dium1-High) sure at 	A A wW m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(49) 0(direct Remote control 37-39- 26(1,310(5 680(20 210(8 34(1)	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 5-3/4) -1/4)	
	Mode Power sup External f Heat exct Fan Operation Noise leve Unit drain Dimension Weight Service F	pply(phase, cycle, vo Input Running current Starting current inish Fan(drive) x No. Fan motor output Airllow(Low-Medium2-Me External static press control & Thermosta I(Low-Medium2-Mediu pipe I.D. ns	dium1-High) sure at 	A A wW m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(49) 0(direct Remote control 37-39- 26(1,310(5 680(20) 210(8) 34(1)	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 5-3/4) -1/4) 75)	
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	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode	pply(phase, cycle, vo Input Running current Starting current inish anger Fan (drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press a control & Thermosta I(Low-Medium2-Mediu pipe I.D. ns	dium1-High) sure at um1-High) W D H	A A W m ³ /min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.) kg(lbs)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(49) 0(direct Remote contrr 37-39- 26(1,310(5 680(20 210(8 34(PCA-RP71GA, F Cooling Single phase	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 5-3/4) 1/4) 75) PCA-RP71GA#1 Heating , 50Hz, 230V	
	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode	pply(phase, cycle, vo Input Running current Starting current inish hanger Fan(drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press a control & Thermost I(Low-Medium2-Mediu pipe I.D. ns	dium1-High) sure at um1-High) W D H	A A KW m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.) kg(lbs)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(493) 0(direct Remote contra 37-39- 26(1,310(5 6880(21) 210(8 34(1) PCA-RP71GA, F Cooling Single phase 0.12	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 5-3/4) -1/4) 75) PCA-RP71GA#1 Heating , 50Hz, 230V 0.12	
	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode	pply(phase, cycle, vo Input Running current Starting current inish anger Fan (drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press a control & Thermosta I(Low-Medium2-Mediu pipe I.D. ns	dium1-High) sure at um1-High) W D H	A A W m ³ /min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.) kg(lbs)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(493) 0(direct Remote contra 37-39- 26(1,310(5 680(26 210(8 34(t) PCA-RP71GA, F Cooling Single phase 0.12 0.53	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 5-3/4) -1/4) 75) PCA-RP71GA#1 Heating 50Hz, 230V 0.12 0.53	
	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode	pply(phase, cycle, vo Input Running current Starting current inish hanger Fan drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press in control & Thermosta I(Low-Medium2-Medium2-Mediu pipe I.D. ns Ref. Pply(phase, cycle, vo Input Running current Starting current	dium1-High) sure at um1-High) W D H	A A KW m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.) kg(lbs) kW A	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(493) 0(direct Remote contra 37-39- 26(1,310(5 6880(21) 210(8 34(1) PCA-RP71GA, F Cooling Single phase 0.12	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Deller & built-in 41-43 1) 1-9/16) 6-3/4) -1/4/ 75) PCA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27	
INDOOR	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode Power su	pply(phase, cycle, vo Input Running current Starting current inish Panger Fan (drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press ocontrol & Thermosta I(Low-Medium2-Mediu pipe I.D. ns Ref. pply(phase, cycle, vo Input Running current Starting current inish	dium1-High) sure at um1-High) W D H	A A KW m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.) kg(lbs) kW A	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.00 14-15-16-18(493) 0(direct 0(direct 37-39- 26(1,310(5 680(20 210(8) 34(1) PCA-RP71GA, F Cooling Single phase 0.12 0.53 1.27	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 6-3/4) -1/4) 75) PCA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97	
INDOOR	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode Power sup External f	pply(phase, cycle, vo Input Running current Starting current inish Fan (drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press control & Thermosta I(Low-Medium2-Mediu pipe I.D. ns Ref. Pply(phase, cycle, vo Input Running current Starting current inish anger Fan(drive) x No.	dium1-High) sure at um1-High) W D H	A A A www.ms/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.) kg(lbs) kW A A A	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(492) 0(direct 0.12 0.12 0.12 0.12 0(direct 137-39- 266 1,310(5 680(20 210(8 210(8 34(1) PCA-RP71GA, F Cooling 0.12 0.53 1.27 Munsell 0.70	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 6-3/4) -1/4) 75) PCA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil	
INDOOR	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode Power sup External f Heat exch	pply(phase, cycle, vo Input Running current Starting current inish Fan (drive) x No. Fan motor output Airllow(Low-Medium2-Me External static press a control & Thermosta I(Low-Medium2-Mediu pipe I.D. ns Ref. Ref. Pply(phase, cycle, vo Input Running current Starting current inish aanger Fan(drive) x No. Fan motor output	dium1-High) sure at um1-High) W D H	A A A www.ms/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.) kg(lbs) kW A A A A KW	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.12 0.12 Munsell 0.70 Plate f Sirocco fan 0.00 14-15-16-18(49) 0(direct Remote control 37-39- 26(1,310(5 680(20) 210(8) 210(8) 210(8) 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.00	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) bler & built-in 41-43 1) 1-9/16) 5-3/4) -1/4) 75) PCA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70	
INDOOR	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode Power sup External f Heat exch	pply(phase, cycle, vo Input Running current Starting current inish Pan(drive) x No. Fan motor output Airflow(Low-Medium2-Mediu	dium1-High) sure at um1-High) W D H Joltage)	A A A www. wimin(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.) kg(lbs) kW A A A A M M KW KW	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.00 14-15-16-18(49) 0(direct Remote control 37-39- 26(1,310(5 680(20 210(8 34(1) PCA-RP71GA, F Cooling Single phase 0.12 0.53 1.27 Munsell 0.70 Plate f Single phase 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(49)	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) coller & built-in 41-43 1) 1-9/16) 5-3/4) -1/4) 75) PCA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70	
INDOOR	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode Power sup External f Heat exch Fan	pply(phase, cycle, vo Input Running current Starting current inish Fan(drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press a control & Thermost II(Low-Medium2-Mediu pipe I.D. ns Ref. Ref. Ref. Fan(drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press	dium1-High) sure at 	A A A www.ms/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.) kg(lbs) kW A A A A KW	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(493) 0(direct Remote contra 37-39- 26(1,310(5) 6880(20) 210(8) 34(1) PCA-RP71GA, F Cooling Single phase 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.00 14-15-16-18(493) 0(direct)	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 5-3/4) -1/4) 75) PCA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow)	
	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode Power sup External f Heat exch Fan	pply(phase, cycle, vo Input Running current Starting current inish hanger Fan drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press a control & Thermost: I(Low-Medium2-Medium2-Medium2-Medium2-Medium2-Medium2-Medium2-Medium2-Medium2-Me Ref. Ref. Fan drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press a control & Thermost	dium1-High) sure at Jm1-High) W D H H Doltage) oltage)	A A A www. m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.) kg(lbs) kW A A A A KW A A A A M M M M CFM) Pa(mmAq)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(493) 0(direct Remote contra 37-39- 26(1,310(5 680(2t) 210(8 34(1) Cooling Single phase 0.12 0.53 1.27 Munsell 0.70 Plate f Single phase 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(49) 0(direct) Remote contra	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) -5-3/4) -1/4) 75) PCA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) oligen & built-in	
INDOOR	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode Power sup External f Heat exch Fan Operation Noise leve	pply(phase, cycle, vo Input Running current Starting current inish hanger Fan(drive) x No. Fan motor output Airflow(Low-Medium2-Me External static press in control & Thermosta I(Low-Medium2-Medium2-Medium2-Medium2-Medium2-Medium2-Medium2-Medium2-Medium2-Me Fan motor output Running current inish hanger Fan(drive) x No. Fan motor output Airflow(Low-Medium2-M	dium1-High) sure at Jm1-High) W D H H Doltage) oltage)	A A A www.mailer.com/ Pa(mmAq) dB mm(in.) mm(in.) mm(in.) mm(in.) kg(lbs) kW A A A A A KW A A A A A A A A A A A A A	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.01 14-15-16-18(493) 0(direct Remote contro 37-39- 26(1,310(5 6880(24 210(8 210(8 210(8 210(8 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(492) 0(direct Remote contro 37-39-	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 5-3/4) -1/4) 75) PCA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Oller & built-in 41-43	
INDOOR	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain	pply(phase, cycle, vo Input Running current Starting current inish hanger Fan (drive) x No. Fan motor output Airflow(Low-Medium2-Mediu	dium1-High) sure at Jm1-High) W D H H Dltage) oltage) sure at Jm1-High)	A A A kW m ³ /min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) kg(lbs) kW A A A A A KW A A A A A B mm(in.)CFM) Pa(mmAq) dB mm(in.)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.00 14-15-16-18(493) 0(direct Remote contro 37-39- 26(1,310(5 680(20 210(8 240(1) Cooling Single phase 0.12 0.53 1.27 Munsell 0.70 Plate f Single phase 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(493) 0(direct Contra 0.12 0.0 14-15-16-18(493) 0(direct Remote contra 0.73-39- 26(1)	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 3-3/4) -1/4/) 75) CA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) 0 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) oller & built-in 41-43 (1)	
INDOOR	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode Power sup External f Heat exch Fan Operation Noise leve	pply(phase, cycle, vo Input Running current Starting current inish hanger Fan (drive) x No. Fan motor output Airflow(Low-Medium2-Mediu	dium1-High) sure at Jm1-High) W D H Oltage) oltage) sure at Jm1-High) W	A A A kW m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) kg(lbs) kW A A A A KW A A A A B m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.00 14-15-16-18(492 0(direct Remote contro 37-39- 260 1,310(5 680(20 210(8 210(8 34(1 PCA-RP71GA, F Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(492) 0(direc Remote contro 37-39- 26(1) 1,310(5)	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Deller & built-in 41-43 1) 1-9/16) 6-3/4) -1/4) 75) PCA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Doller & built-in 41-43 10 1-27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Doller & built-in 41-43 (1) 1-9/16)	
INDOOR	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain	pply(phase, cycle, vo Input Running current Starting current inish hanger Fan (drive) x No. Fan motor output Airflow(Low-Medium2-Mediu	dium1-High) sure at Jm1-High) W D H H D oltage) oltage) sure at Jm1-High) W D	A A A kW m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) kg(lbs) kW A A A A KW M³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.012 0.12 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(492 0(direct Remote contro 37-39- 266 1,310(5 680(20 210(8 210(8 24(1 Cooling Single phase 0.12 Single phase 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(492 0(direct Remote contro 37-39- 26(0(direct Remote contro 37-39- 26(1,310(5 680(20 <td>Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 6-3/4) -1/4) 75) PCA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 (1) 1-9/16) 6-3/4)</td>	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 1) 1-9/16) 6-3/4) -1/4) 75) PCA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) Diler & built-in 41-43 (1) 1-9/16) 6-3/4)	
INDOOR	Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain Dimension Weight Service F Mode Power sup External f Heat exch Fan Operation Noise leve Unit drain	pply(phase, cycle, vo Input Running current Starting current inish hanger Fan (drive) x No. Fan motor output Airflow(Low-Medium2-Mediu	dium1-High) sure at Jm1-High) W D H Oltage) oltage) sure at Jm1-High) W	A A A kW m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.) mm(in.) kg(lbs) kW A A A A KW A A A A B m³/min(CFM) Pa(mmAq) dB mm(in.) mm(in.)	Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.00 14-15-16-18(492 0(direct Remote contro 37-39- 260 1,310(5 680(20 210(8 210(8 34(1 PCA-RP71GA, F Cooling Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Single phase, 0.12 0.53 1.27 Munsell 0.70 Plate f Sirocco fan 0.0 14-15-16-18(492) 0(direc Remote contro 37-39- 26(1) 1,310(5)	Heating 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) coller & built-in 41-43 1) 1-9/16) 5-3/4) -1/4) 75 CCA-RP71GA#1 Heating , 50Hz, 230V 0.12 0.53 1.27 Y 8.59/0.97 in coil (direct) x 3 70 5-530-565-635) t blow) oller & built-in 41-43 (1) 1-9/16) 6-3/4) 41-143 (1) 1-9/16) 6-3/4)	

	Service F	Ref.			PCA-RP100GA, PCA-RP100GA#1		
	Mode				Cooling	Heating	
	Power supply(phase, cycle, voltage)				Single phase,	50Hz, 230V	
		Input		kW	0.15	0.15	
		Running current		A	0.69	0.69	
		Starting current		А	1.48	1.48	
	External finish				Munsell 0.70	Y 8.59/0.97	
⊑ [Heat exch	nanger			Plate fir	n coil	
	Fan	Fan(drive) x No.			Sirocco fan (Sirocco fan (direct) x 3	
		Fan motor output		kW	0.090		
INDOOR		Airflow(Low-Medium2-Me	dium1-High)	m³/min(CFM)	20-21-23-25(705-740-810-885)		
ĕL		External static pres	sure	Pa(mmAq)	0(direct blow)		
≤ [Operation	o control & Thermost	at		Remote controller & built-in		
L	Noise leve	l(Low-Medium2-Mediu	um1-High)	dB	40-41-43-45		
	Unit drain pipe I.D.			mm(in.)	26(1)		
	Dimensions W		W	mm(in.)	1,310(51-9/16)		
			D	mm(in.)	680(26	-3/4)	
	Н			mm(in.)	270(10-5/8)		
Weight				kg(lbs)	37(82)		

	Service F	Ref.			PCA-RP125GA, PC	CA-RP125GA#1	
	Mode				Cooling	Heating	
	Power supply(phase, cycle, voltage)				Single phase, 5	50Hz, 230V	
		Input		kW	0.22	0.22	
		Running current		А	1.01	1.01	
		Starting current		А	2.20	2.20	
	External finish				Munsell 0.70Y	8.59/0.97	
UNIT	Heat exchanger				Plate fin	coil	
	Fan	Fan(drive) x No.			Sirocco fan (o	direct) x 4	
l B B		Fan motor output		kW	0.150	0	
ĮÕ		Airflow(Low-Medium2-Me	edium1-High) m³/min(CFM)		27-30-32-34(955-1,0	27-30-32-34(955-1,060-1,130-1,200)	
NDOOR		External static press	sure	Pa(mmAq)	0(direct blow)		
I		o control & Thermost			Remote controller & built-in		
		el(Low-Medium2-Mediu	ım1-High)	dB	41-43-4	5-46	
	Unit drain pipe I.D. Dimensions W		mm(in.)	26(1)		
			mm(in.)	1,620(63	-3/4)		
		D		mm(in.)	680(26-	3/4)	
			Н	mm(in.)	270(10-	5/8)	
	Weight kg(lbs)			kg(lbs)	43(95	5)	

	Service Ref. Mode				PCA-RP140GA, PC	A-RP140GA#1	
					Cooling	Heating	
	Power supply(phase, cycle, voltage)				Single phase, 5	50Hz, 230V	
		Input		kW	0.22	0.22	
		Running current		А	1.01	1.01	
		Starting current		А	2.20	2.20	
	External finish				Munsell 0.70Y	8.59/0.97	
l⊨	Heat excl	nanger			Plate fin		
UNIT	Fan	Fan(drive) x No.			Sirocco fan (c	direct) x 4	
		Fan motor output		kW	0.150)	
18		1	ow-Medium2-Medium1-High)		27-30-32-34(955-1,0		
INDOOR		External static press		Pa(mmAq)	0(direct blow)		
≤		o control & Thermost			Remote controller & built-in		
		l(Low-Medium2-Mediu	ım1-High)	dB	42-44-46	6-48	
	Unit drain pipe I.D. mm		mm(in.)	26(1)			
	Dimensio	Dimensions W		mm(in.)	1,620(63	,	
	D		D	mm(in.)	680(26-	3/4)	
			Н	mm(in.)	270(10-	5/8)	
	Weight			kg(lbs)	45(99	45(99)	

Service	Ref.			PCH-P50GAH		
Mode				Cooling	Heating	
Power s	Power supply(phase, cycle, voltage)			Single phase, s	50Hz, 230V	
	Input		kW	0.09	0.09<1.29>	
	Running current	*1	A	0.41	0.41<5.61>	
	Starting current	*1	A	1.20	1.20<5.61>	
Externa	External finish			Munsell 0.70Y	Ý 8.59/0.97	
- Heat ex	Heat exchanger			Plate fir	n coil	
Fan	Fan(drive) x No.			Sirocco fan (direct) x 2		
	Fan motor output	Fan motor output		0.05	4	
2	Airflow(Low-Medium2-N	Airflow(Low-Medium2-Medium1-High)		10-11-12-13(355-	-390-425-460)	
Booster	External static pre	ssure	Pa(mmAq)	0(direct	blow)	
Booster	Booster heater *1		kW	<1.29)>	
Operati	on control & Thermos	stat		Remote controller & built-in		
Noise le	Noise level(Low-Medium2-Medium1-High) dB			37-38-40-42		
Unit dra	Unit drain pipe I.D.		mm(in.)	26(1)		
Dimens	Dimensions W mm(in.)		mm(in.)	1,000(39	9-3/8)	
		D	mm(in.)	680(26-	-3/4)	
		Н	mm(in.)	210(8-1/4)		
Weight kg(lbs)		kg(lbs)	28.5(63)			

	Service Ref.				PCH-P60GAH	
	Mode				Cooling	Heating
	Power su	Power supply(phase, cycle, voltage)			Single phase	, 50Hz, 230V
		Input	*1	kW	0.12	0.12<1.93>
		Running current	*1	А	0.53	0.53<8.39>
		Starting current	*1	А	1.27	1.27<8.39>
	External finish				Munsell 0.70)Y 8.59/0.97
	Heat exchanger				Plate f	in coil
UNIT	Fan	Fan(drive) x No.			Sirocco fan	(direct) x 3
		Fan motor output		kW	0.0	70
18		Airflow(Low-Medium2-Medium1-High)		m³/min(CFM)	14-15-16-18(495-530-565-635)	
NDOOR		External static press	External static pressure		0(direc	t blow)
≤	Booster h		*1	kW	<1.9	93>
		o control & Thermost			Remote controller & built-in	
		l(Low-Medium2-Mediu	um1-High)	dB	37-39-41-43	
	Unit drain pipe I.D.			mm(in.)	26	· · ·
	Dimensions W		W	mm(in.)	1,310(5	1-9/16)
			D	mm(in.)	680(2)	,
	Н		mm(in.)	210(8	,	
	Weight kg		kg(lbs)	36(79)		

	Service Ref.				PCH-P7	'1GAH
	Mode				Cooling	Heating
	Power supply(phase, cycle, voltage)				Single phase, 50Hz, 230V	
		Input	*1	kW	0.12	0.12<1.93>
		Running current	*1	А	0.53	0.53<8.39>
		Starting current	*1	А	1.27	1.27<8.39>
	External f	inish			Munsell 0.70	Y 8.59/0.97
Ŀ	Heat exchanger				Plate fi	in coil
UNIT	Fan	Fan(drive) x No.	e) x No.		Sirocco fan (direct) x 3	
		Fan motor output kW		kW	0.070	
INDOOR		Airflow(Low-Medium2-Medium1-High)		m³/min(CFM)	14-15-16-18(495-530-565-635)	
lĕ		External static pressure		Pa(mmAq)	0(direct blow)	
l≤	Booster h	leater	*1	kW	<1.93>	
	Operation	n control & Thermost	at		Remote controller & built-in	
	Noise leve	el(Low-Medium2-Mediu	um1-High)	dB	37-39-41-43	
	Unit drain	Unit drain pipe I.D.			26(1)
	Dimensions W		W	mm(in.)	1,310(51	1-9/16)
	D		mm(in.)	680(26	6-3/4)	
	H mm(in.)		mm(in.)	210(8-1/4)		
	Weight kg(lbs)			kg(lbs)	36(79)	

*1: <> Shows the only booster heater rating.

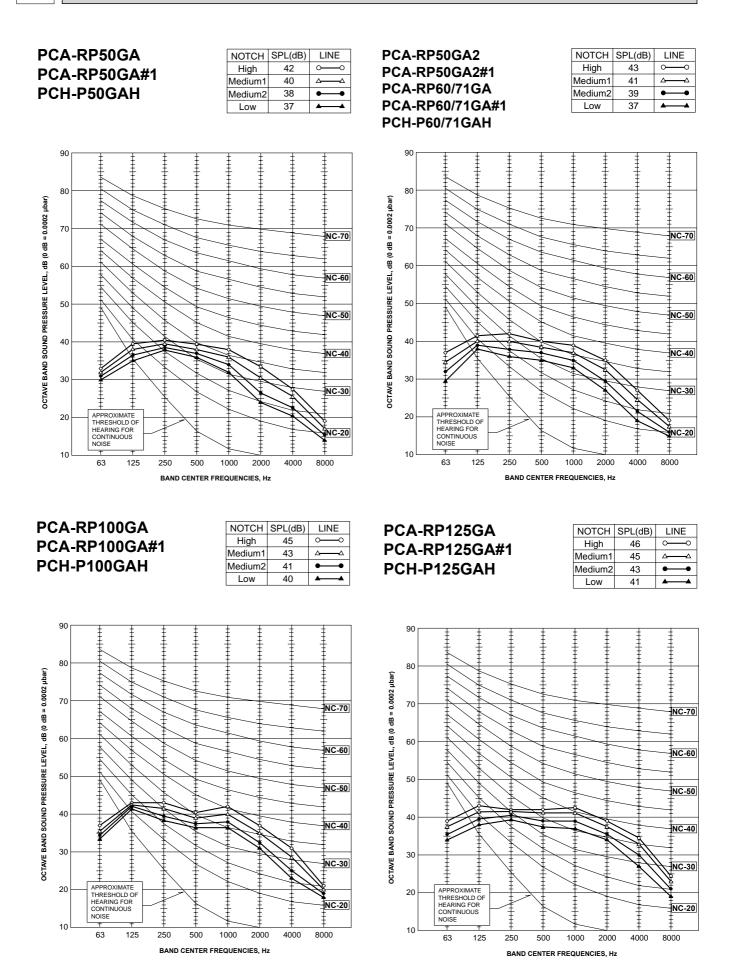
	Service I	Ref.			PCH-P10	DOGAH
	Mode	Mode			Cooling	Heating
	Power su	ipply(phase, cycle, vo	oltage)		Single phase,	50Hz, 230V
		Input	*1	kW	0.15	0.15<2.48>
		Running current	*1	А	0.69	0.69<10.78>
		Starting current	*1	А	1.48	1.48<10.78>
	External f	finish			Munsell 0.70	Y 8.59/0.97
Ŀ	Heat exchanger				Plate fi	n coil
UNIT	Fan	Fan(drive) x No.			Sirocco fan	(direct) x 3
		Fan motor output		kW	0.09	90
18		Airflow(Low-Medium2-Medium1-High)		m³/min(CFM)	20-21-23-25(705-740-810-885)	
NDOOR		External static pressure		Pa(mmAq)	0(direct blow)	
≤	Booster h	neater	*1	kW	<2.48>	
		n control & Thermost			Remote controller & built-in	
		el(Low-Medium2-Mediu	um1-High)	dB	40-41-43-45	
	Unit drain pipe I.D.		mm(in.)	26(
	Dimensions W		W	mm(in.)	1,310(5	,
	D H		mm(in.)	680(26	,	
			mm(in.)	270(10	,	
	Weight			kg(lbs)	39.5((87)

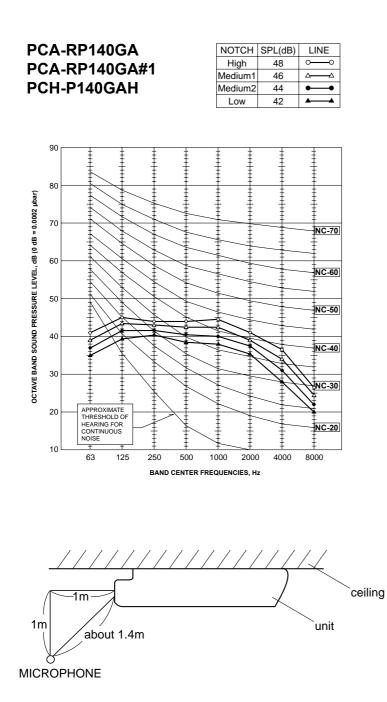
	Service I	Ref.			PCH-P12	5GAH
	Mode				Cooling	Heating
	Power su	pply(phase, cycle, vo	oltage)		Single phase, 5	50Hz, 230V
		Input	*1	kW	0.22	0.22<2.76>
		Running current	*1	А	1.01	1.01<12.00>
		Starting current	*1	А	2.20	2.20<12.00>
	External	finish			Munsell 0.70Y	8.59/0.97
E	Heat exc				Plate fin	
UNIT	Fan	Fan(drive) x No.			Sirocco fan (direct) x 4	
		Fan motor output		kW	0.15	0
NDOOR		Airflow(Low-Medium2-Medium1-High)		m³/min(CFM)	27-30-32-34(955-1,0	060-1,130-1,200)
lğ		External static pressure		Pa(mmAq)	0(direct l	olow)
≤	Booster h		*1	kW	<2.76	
		n control & Thermost			Remote controller & built-in	
		el(Low-Medium2-Mediu	um1-High)	dB	41-43-45-46	
	Unit drain pipe I.D.		mm(in.)	26(1)	
	Dimensio	Dimensions W		mm(in.)	1,620(63	3-3/4)
	D mm(in.) H mm(in.)		mm(in.)	680(26-	/	
			mm(in.)	270(10-	5/8)	
	Weight			kg(lbs)	46(10	1)

	Service F	Ref.			PCH-P140GAH	
	Mode				Cooling	Heating
	Power su	pply(phase, cycle, vo	oltage)		Single phase,	50Hz, 230V
		Input	*1	kW	0.22	0.22<2.76>
		Running current	*1	А	1.01	1.01<12.00>
		Starting current	*1	А	2.20	2.20<12.00>
	External f	finish			Munsell 0.70	Y 8.59/0.97
Ŀ	Heat excl	hanger			Plate f	in coil
UNIT	Fan	Fan(drive) x No.			Sirocco fan (direct) x 4	
		Fan motor output		kW	0.150	
INDOOR		Airflow(Low-Medium2-Medium1-High)		m ³ /min(CFM)	27-30-32-34(955-1,060-1,130-1,200)	
Шă		External static pressure		Pa(mmAq)	0(direct blow)	
l≤	Booster h	neater	*1	kW	<2.76>	
		n control & Thermost			Remote controller & built-in	
		el(Low-Medium2-Mediu	um1-High)	dB	42-44-46-48	
	Unit drain pipe I.D. mr		mm(in.)	26(1)	
	Dimensions W D		W	mm(in.)	1,620(6	(3-3/4)
			mm(in.)	680(26	6-3/4)	
			Н	mm(in.)	270(10-5/8)	
	Weight kg(lbs)		48(106)			

*1 : < > Shows the only booster heater rating.

NOISE CRITERION CURVES





OUTLINES AND DIMENTIONS

Unit : mm

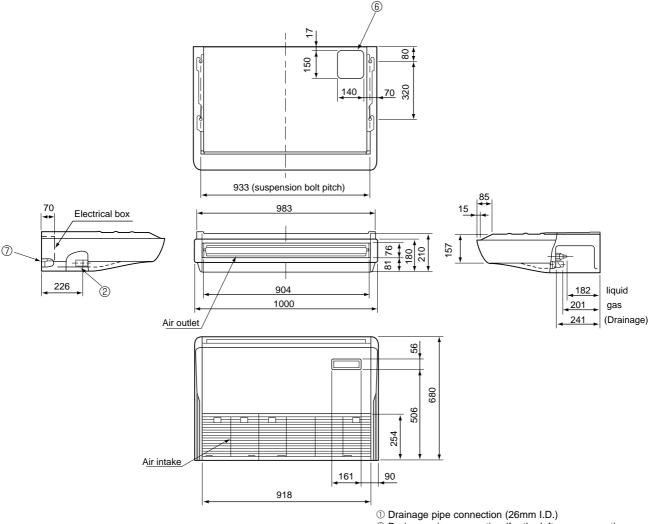
INDOOR UNIT PCA-RP50GA PCA-RP50GA#1 PCH-P50GAH

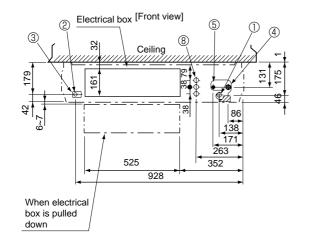
7

NOTES:

1. Use M10 or W3/8 screws for anchor bolt.

2. When optional drain lift-up mechanism is installed, always provide upward piping for refrigerant piping.





② Drainage pipe connection (for the left arrangement)

- ③ Knockout hole for left drain-piping arrangement
- ④ Refrigerant-pipe connection (gas pipe side/flared connection)
 ⑤ Refrigerant-pipe connection (liquid pipe side/flared connection)
- Kenigerant-pipe connection (induit pipe side/hared connect
 Knockout hole for upper drain pipe arrangement
- C Knockout hole for left drain pipe arrangement
- ⑧ Knockout hole for wiring arrangement

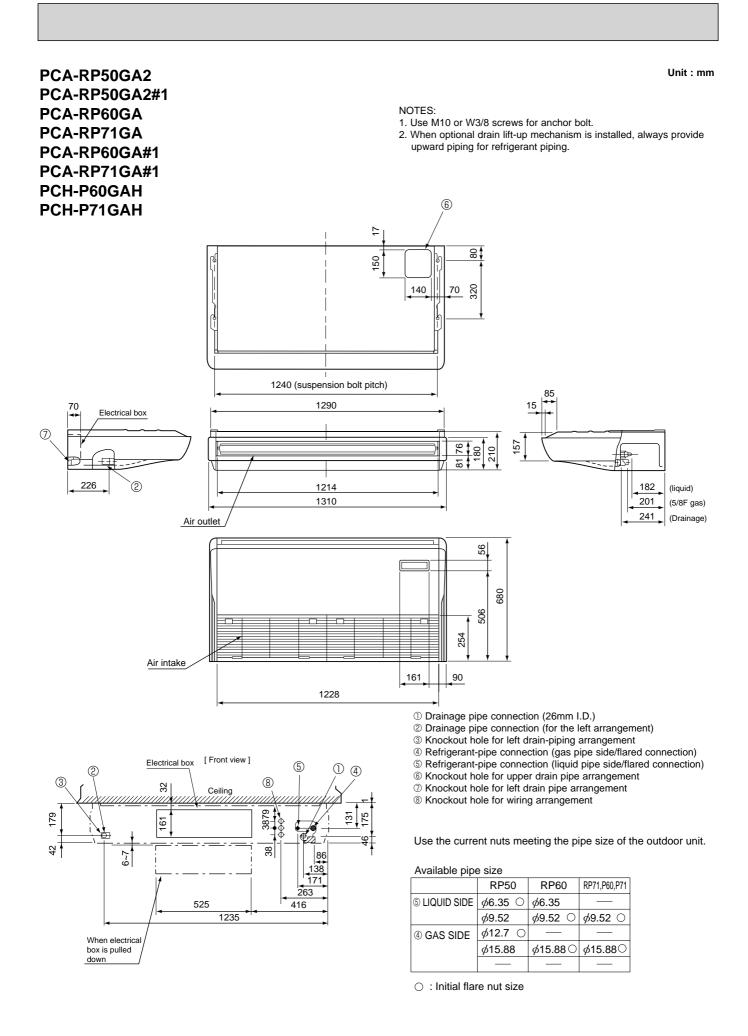
e raiocidat noie for winnig analigement

Use the current nuts meeting the pipe size of the outdoor unit.

Available pipe size

	RP50	P50
5 LIQUID SIDE	ø6.35 ○	
	<i>ø</i> 9.52	ø9.52 ○
④ GAS SIDE	¢12.7 ○	
	ø15.88	¢15.88 ○

^{○ :} Initial flare nut size



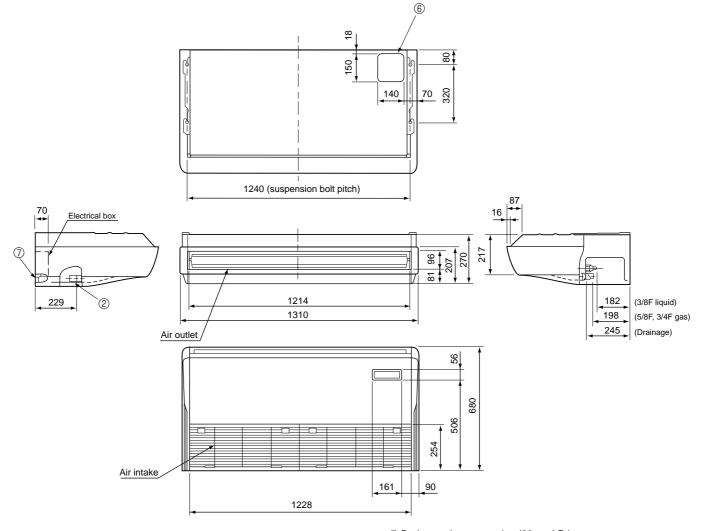
Unit : mm

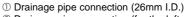
PCA-RP100GA PCA-RP100GA#1 PCH-P100GAH

NOTES:

1. Use M10 or W3/8 screws for anchor bolt.

2. When optional drain lift-up mechanism is installed, always provide upward piping for refrigerant piping.





② Drainage pipe connection (for the left arrangement)

- ③ Knockout hole for left drain-piping arrangement
- ④ Refrigerant-pipe connection (gas pipe side/flared connection)
- Sefrigerant-pipe connection (liquid pipe side/flared connection)
 Knockout hole for upper drain pipe arrangement
- ⑦ Knockout hole for left drain pipe arrangement
- [®] Knockout hole for wiring arrangement

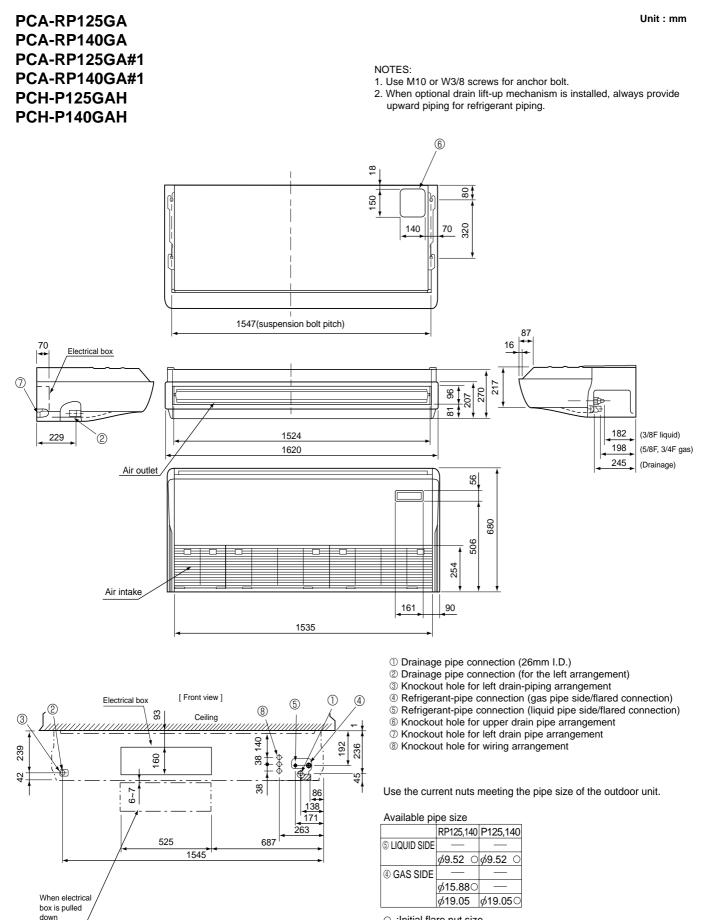
Use the current nuts meeting the pipe size of the outdoor unit.

Available pipe size

Available pipe 3ize					
	RP100	P100			
5 LIQUID SIDE					
	ø9.52 ○	ø9.52 ○			
④ GAS SIDE		_			
	¢15.88 ◯				
	<i>ф</i> 19.05	ø19.05 ⊖			

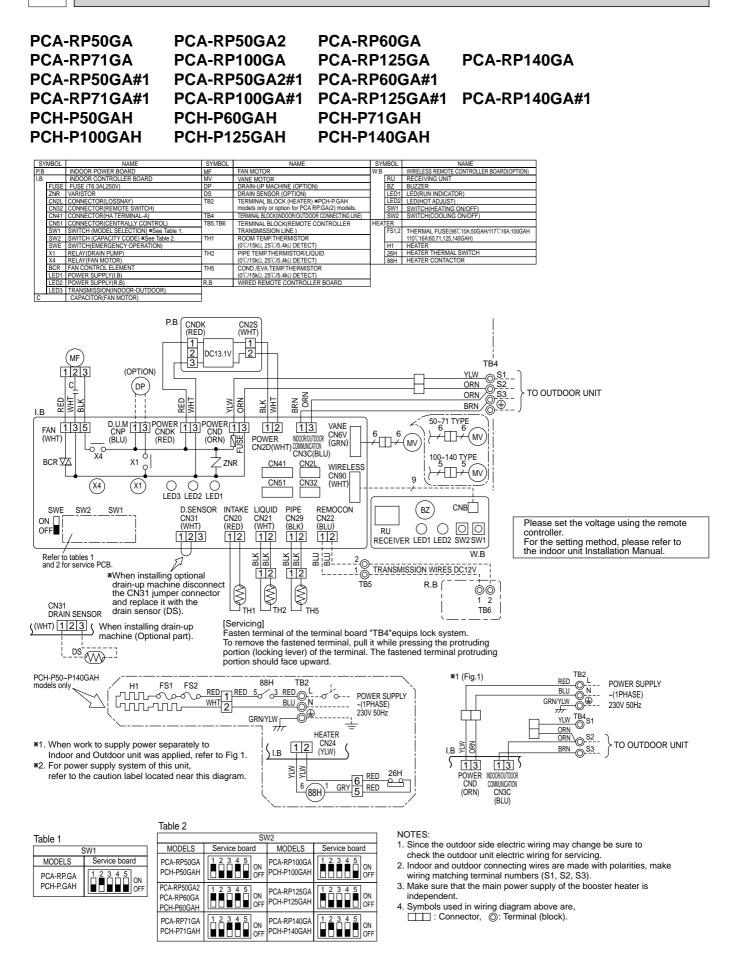
O :Initial flare nut size

Electrical box [Front view] 4 1 5 2 8 63 Ceiling 3 140 192 236 239 160 8) 0 0 0 4 42 8 6~7 86 138 171 263 525 687 1235 When electrical box is pulled down



○ :Initial flare nut size

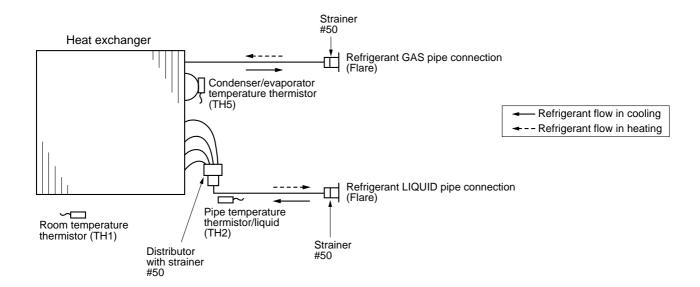
WIRING DIAGRAM



REFRIGERANT SYSTEM DIAGRAM

9

PCA-RP50GA	PCA-RP50GA2	PCA-RP60GA	
PCA-RP71GA	PCA-RP100GA	PCA-RP125GA	PCA-RP140GA
PCA-RP50GA#1	PCA-RP50GA2#1	PCA-RP60GA#1	
PCA-RP71GA#1	PCA-RP100GA#1	PCA-RP125GA#1	PCA-RP140GA#1
PCH-P50GAH	PCH-P60GAH	PCH-P71GAH	
PCH-P100GAH	PCH-P125GAH	PCH-P140GAH	



Unit : mm

10-1. TROUBLESHOOTING

<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 trouble reoccurrence at field are summarized in the table below. Check the contents below before investigating details.

Unit conditions at service	Error code	Actions to be taken for service (summary)
The trouble is reoccurring.	Displayed	Judge what is wrong and take a corrective action according to "SELF-DIAGNOSIS ACTION TABLE" (10-2).
Ŭ	Not displayed	Conduct troubleshooting and ascertain the cause of the trouble according to "TROUBLESHOOTING BY INFERIOR PHENOMENA" (10-3).
The trouble is not reoccurring.	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 trouble 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.
J	Not logged	 ①Recheck the abnormal symptom. ②Identify the cause of the trouble and take a corrective action according to "TROUBLESHOOTING BY INFERIOR PHENOMENA" (10-3). 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.

10-2. 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	Abnormal point and detection method	Cause	Countermeasure
P1	 Room temperature thermistor (TH1) The unit is in 3-minute resume prevention mode if short/open of thermistor is detected. Abnormal if the unit does not reset normally after 3 minutes. (The unit returns to normal operation, if it has been reset normally.) Constantly detected during cooling, drying, and heating operation. Short: -90°C or more Open: -40°C or less 	 ① Defective thermistor characteristics ② Contact failure of connector (CN20) on the indoor controller board (Insert failure) ③ Breaking of wire or contact failure of thermistor wiring ④ Defective indoor controller board 	 ①-③ Check resistance value of thermistor. ①°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 10-6. 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 after check.
P2	 Pipe temperature thermistor/Liquid (TH2) The unit is in 3-minute resume prevention mode if short/open of thermistor is detected. Abnormal if the unit does not reset normally after 3 minutes. (The unit returns to normal operation, if it has been reset normally.) 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 (CN44) on the indoor control- ler board (Insert failure) Breaking of wire or contact failure of thermistor wiring Defective refrigerant circuit is causing thermistor tempera- ture of 90°C or more or -40°C or less. Defective indoor controller board 	 ①-③ Check resistance value of thermistor. For characteristics, refer to (P1) above. ② Check contact failure of connector (CN44) on the indoor controller board. Refer to 10-6. 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 extremely 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 extremely difference with actual pipe <liquid> temperature, replace indoor controller board.</liquid></liquid> Turn the power off, and on again to operate after check.
P4	 Drain sensor (DS) Suspensive abnormality, if short/open of thermistor is detected for 30 seconds continuously.Compressor and indoor fan will be turned off 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.</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. ①[°]C·····6.0kΩ 10[°]C····3.9kΩ 20[°]C····1.3kΩ 40[°]C····1.3kΩ ② Check contact failure of connector (CN31) on the indoor controller board. Refer to 10-6. 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.
P5	 Malfunction of drain pump (DP) Suspensive abnormality, if thermistor of drain sensor is let heat itself and temperature rises slightly. Compressor and indoor fan will be turned off. 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 10-6. Turn the power off, and on again to operate after check.

Error Code	Abnormal point and detection method	Cause	Countermeasure
	Freezing/overheating protection is work- ing The unit is in 6-minute resume preven- tion mode if pipe <liquid <br="" condenser="" or="">evaporator> temperature stays under -15°C for 3 minutes, 3 minutes after the compressor started. Abnormal if it stays under -15°C for 3 minutes again within 16 minutes after 6-minute resume pre- vention mode.</liquid>	 (Cooling or drying mode) ① Clogged filter (reduced airflow) ② Short cycle of air path ③ Low-load (low temperature) operation out of the tolerance range ④ Defective indoor fan motor Fan motor is defective. Indoor controller board is defective. 	(Cooling or drying mode) ① Check clogs of the filter. ② Remove shields. ④ Refer to 10-6.
P6	② Overheating protection (Heating mode) The units is in 6 minute resume prevention mode if pipe <condenser <br="">evaporator> temperature is detected as over 70°C after the compressor started. Abnormal if the temperature of over 70°C is detected again within 30 minutes after 6 minute resume prevention mode.</condenser>	 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 out of the tolerance range Defective indoor fan motor Fan motor is defective. Indoor controller board is defec- tive. Defective outdoor fan control Overcharge of refrigerant Defective refrigerant circuit (clogs) Bypass circuit of outdoor unit is defective. 	 ⑤ Check outdoor fan motor. ⑥ Check operating condition of refrigerant circuit. (Heating mode) ① Check clogs of the filter. ② Remove shields. ④ Refer to 10-6. ⑤ Check outdoor fan motor. ⑥ Check operating condition of refrigerant circuit.
P8	Pipe temperature <cooling mode=""> Detected as abnormal when the pipe tem- perature is not in the cooling range 3 min- utes after compressor start and 6 minutes after the liquid or condenser/evaporator pipe is out of cooling range. Note 1) It takes at least 9 minutes to detect. Note 2) Abnormality P8 is not detected in drying mode. Cooling range : -3 °C ≧ (TH-TH1) TH: Lower temperature between: liquid pipe temperature (TH2) and condens- er/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 heat- ing 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 °C ≦ (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 condenser="" evap="" or="" rator=""> temperature with room temperature display on remote controller and outdoor controller circuit board. Pipe <liquid as="" board="" by="" circuit="" condenser="" controller="" display="" evaporator:="" follows.<="" indicated="" is="" li="" of="" or="" outdoor="" setting="" sw2="" temperature=""> () 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. </liquid></liquid>

Error Code	Abnormal point and detection method	Cause	Countermeasure
Ρ9	 Pipe temperature thermistor / Condenser-Evaporator (TH5) The unit is in 3-minute resume protection mode if short/open of thermistor is detected. Abnormal if the unit does not get back to normal within 3 minutes. (The unit returns to normal operation, if it has been reset normally.) Constantly detected during cooling, drying, and heating operation (except defrosting) Short: 90°C or more Open: -40°C or less 	 Defective thermistor characteristics Contact failure of connector (CN44) 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 (CN44) on the indoor controller board. Refer to 10-7. Turn the power on and check restart after inserting connector again. ③ Operate in test run mode and check pipe <condenser evaporator=""> temperature with outdoor controller circuit board. If pipe <condenser evaporator=""> temperature is extremely low (in cooling mode) or high (in heating mode), refrigerant circuit may have defect.</condenser></condenser> ⑤ Operate in test run mode and check pipe <condenser evaporator=""> temperature with outdoor control circuit board. If there is extreme difference with actual pipe <condenser evaporator=""> temperature, replace indoor controller board.</condenser></condenser> There is no abnormality if none of above comes within the unit. Turn the power off and on again to operate. (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 cannot receive any transmission normally from indoor unit of refrigerant address "0" for 3 minutes. (Error code : E0) Abnormal if sub remote controller could not receive any signal for 2 minutes. (Error code: E0) Abnormal if indoor controller board can not receive any data normally from remote controller board or from other indoor controller board for 3 minutes. (Error code: E4) Indoor controller board cannot receive any signal from remote controller for 2 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. Miswiring of remote controller Defective transmitting receiving circuit of remote controller Defective transmitting receiving circuit of indoor controller board of refrigerant addresses "0". Noise has entered into the transmission wire of remote controller. 	 ① Check disconnection or looseness of indoor unit or transmission wire of remote controller ② Set one of the remote controllers "main" if there is no problem with the action above. ③ Check wiring of remote controller. Total wiring length: max. 500m (Do not use cable x 3 or more.) The number of connecting indoor units: max. 16 units The number of connecting remote controller: er: max. 2 units When it is not the above-mentioned problem of ①~③ ④ Diagnose remote controllers. a) When "RC OK" is displayed, Remote controllers have no problem. Turn the power off, and on again to check If abnormality generates again, replace indoor controller board. b) When "RC NG" is displayed, Replace remote controller. c)When "RC E3" or "ERC 00-66" is displayed, noise may be causing abnormality 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 6 sec- onds and could not transmit. (Error code: E3) Remote controller receives transmitted data at the same time and compares the received and transmitted data. Abnormal if these data are judged to be different 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 and com- pares the received and transmitted data. Abnormal if these data are judged to be different 30 continuous times. (Error code: E5) 	 2 remote controllers are set as "main." (In case of 2 remote con- trollers) Remote controller is connected with 2 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 control- ler. 	 Set a remote controller to main, and the other to sub. Remote controller is connected with only on indoor unit. The address changes to a separate setting. (a) ~(b) Diagnose remote controller. a) When "RC OK" is displayed, remote controller. a) When "RC OK" is displayed, remote controllers have no problem. Turn the power off,and on again to check. When becoming abnormal again, replace indoor controller board. b) When "RC NG" is displayed, replace remote controller. c) When "RC E3" or "ERC 00-66" is displayed, noise may be causing abnormality.

Error Code	Abnornal point and detection method	Cause	Countermeasure
E6	 Indoor/outdoor unit communication error (Signal receiving error) Abnormal if indoor controller board cannot receive any signal normally for 6 minutes after turning the power on. Abnormal if indoor controller board cannot receive any signal normally for 3 minutes. Consider the unit abnormal under the fol- lowing condition: When 2 or more indoor units are connected to an outdoor unit, indoor controller board cannot receive a signal for 3 minutes from outdoor controller circuit board, a signal which allows outdoor controller circuit board to transmit signals. 	 Contact failure, short circuit or, miswiring (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. 	 * Check LED display on the outdoor control circuit board. (Connect A-control service tool, PAC-SK52ST.) Refer to outdoor unit service manual. ① Check disconnection or looseness of indoor/outdoor unit connecting wire of indoor unit o 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 defect 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	Indoor controller board Abnormal if data cannot be read normally from the nonvolatile memory of the indoor controller board.	① Defective indoor controller board	① Replace indoor controller board.
E1 or E2	 Remote controller control board Abnormal if data cannot be read normally from the nonvolatile memory of the remote controller control board. (Error code: E1) Abnormal if the clock function of remote controller cannot be operated normally. (Error code: E2) 	① Defective remote controller	① Replace remote controller.
	Forced compressor stop (due to water leakage abnormality) ① 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 of 90 seconds. (Drain pump will start operating when the drain sensor is detected to be	 Drain pump trouble Drain defective Drain pump clogging Drain pipe clogging Open circuit of drain sensor side heater 	 Check the drain pump. Please confirm whether water can be drained. Confirm the resistance of the drain sensor.
PA	 when the following conditions, a and b, are satisfied while the above-mentioned detection 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 	 ④ Contact failure of drain sensor connector ⑤ Dew condensation on drain sensor • Drain water descends along lead wire. • Drain water waving due to filter clogging. ⑥ Extension piping connection 	 ④ Check the connector contact failure. ⑤ Check the drain sensor leadwire mounted. Check the filter clogging ⑥ Check the piping connection
	 be NOT soaked in the water, the detection record of a and b will be cleared.) The drain sensor detection is performed in operations other than cooling. (When the unit stops operating, during heating or fan operation, when the unit stops because of some abnormality) *Once the water leakage abnormality is detected, abnormality state will not be released until the main power is reset. 	 Extension piping connection difference at twin, triple, quadruple system. Mis-wiring of indoor/ outdoor connecting at twin, triple, quadruple system. Room temperature thermistor / liquid pipe temperature thermistor detection is defective. 	 (6) Check the piping connection. (7) Check the indoor/ outdoor connecting wires. (8) Check the room temperature display of remote controller. Check the indoor liquid pipe temperature display of outdoor controller board.

10-3. TROUBLESHOOTING BY INFERIOR PHENOMENA

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

Phenomena	controller.	Countermeasure
(1)LED2 on indoor controller board	When LED1 on indoor controller board is also off.	
is 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. When AC 220~240V is detected. —Check (2) (below).
	② Defective outdoor controller circuit board.	 Check the voltage between outdoor terminal block S1 and S2. When AC 220~240V is not detected. Check the fuse on outdoor controller cir- cuit board. Check the wiring connection. When AC 220~240V is detected.
	③ Power supply of 220~240V is not supplied to indoor unit.	 —Check ③ (below). ③ 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. —Check ④ (below).
	Defective indoor power board.	 Geck voltage output from CN2S on indoor power board (DC13.1V). Refer to 10-6-1. When no voltage is output. Check the wiring connection. When output voltage is between DC12.5V and DC13.7V. —Check (5) (below).
	⑤ Defective indoor controller board.	⑤ Check the wiring connection between indoor controller board and indoor power board. Check the fuse on indoor controller board.
	(For the separate indoor/outdoor unit power sup- ply system)	
	 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. Check (M kelow)
	② The connectors of the optional replacement kit are not used.	 -Check ⁽²⁾ (below). ⁽²⁾ 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 method of connecting the connectors. -Check ⁽³⁾ (below). ⁽³⁾ Check voltage output from CNDK on indoor
	③ Defective indoor controller board.	 Check voltage output from CNDK on Indoor controller board. When AC220~240V is not detected. Check the fuse on indoor controller board. Check the wiring connection between indoor power supply terminal block and CND on indoor controller board. When AC220~240V is detected. -Check ④ (below). Check voltage output from CN2S on indoor
	④ Defective indoor power board.	 power board. When no voltage output. Check the wiring connection between CNDK on indoor controller board and CNSK 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 CN2D on indoor power board.
	 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".) 	If no problem are found,indoor controller ① 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.

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.	① Check the connection of remote con-		
	① Mis-wiring of remote controller wires Under twin triple indoor unit system, 2 or more indoor units are wired together.	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.	② Check the setting of refrigerant address in case of grouping control system. If there are some units whose refrigerant addresses are 0 in one group, set one of the units to 0 using SW1 (3-6) on outdoor controller circuit board.		
	 ③ Short-cut of remote controller wires ④ Defective remote controller 	 ③ ④ 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. 		
(3)Upward/downward vane performance failure	 The vane is not downward during defrosting and heat preparation and when the thermostat is OFF in HEAT mode. (Working of COOL protection function) Vane motor does not rotate. Defective vane motor Breaking of wire or connection failure of connector Up/down vane setting is "No vanes". Upward/downward vane does not work. The vane is set to fixed position. 	 Normal operation (The vane is set to horizontal regardless of remote control.) Check @ (left). Check the vane motor. (Refer to "How to check the parts".) Check for breaking of wire or connec- tion failure of connector. Check "Up/down vane setting". (Unit function selection by remote controller). Normal operation (Each connector on vane motor side is disconnected.) 		
(4)Receiver for wireless remote controller	 Weak batteries of wireless remote controller. Contact failure of connector (CNB) on wireless remote controller board. (Insert failure) Contact failure of connector (CN90) on indoor controller board.(Insert failure) Contact failure of connector between wireless remote controller board and indoor controller board. 	 ① Replace batteries of wireless remote controller. ②~④ Check contact failure of each connector. If no problems are found of connector, replace indoor controller board. When the same trouble occurs even if indoor controller board is replaced, replace wireless remote controller board. 		

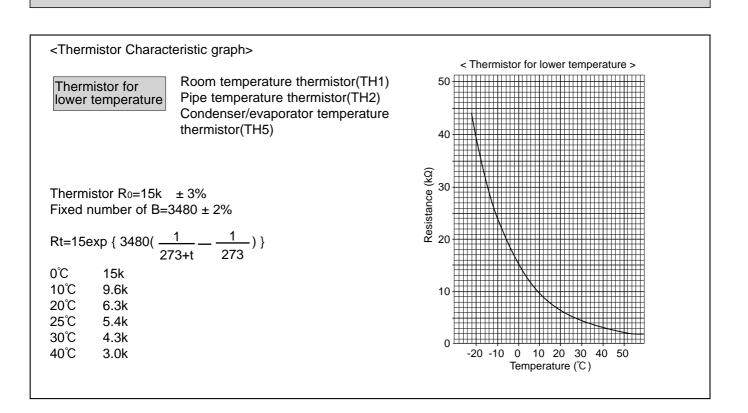
10-4. When wired remote controller or indoor unit micro computer troubles

- 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(Option)
- 2. When emergency operating for COOL or HEAT, setting of the switch (SWE) in 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 at most. It may cause heat exchanger frosting in the indoor unit.
 - (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 manually and slowly.

10-5. HOW TO CHECK THE PARTS

PCA-RP50/60/71/100/125/140GA PCA-RP50/60/71/100/125/140GA#1 PCA-RP50GA2 PCA-RP50GA2#1 PCH-P50/60/71/100/125/140GAH

Check points						
Disconnect the connector then measure the resistance with a tester. (At the ambient temperature $10^{\circ}C \sim 30^{\circ}C$)						
Normal	Abnormal		(Refer to the next pege for a detail.)			- 11)
4.3kΩ~9.6kΩ	Open or short					all.)
		erminals us	ing a tester.			
Motor terminal	Normal					
or Relay connector	50GA	50GA2 60, 71	100)	125, 140	Abnormal
Red–Black	70.6Ω	45.0Ω	43.7	Ω	20.4Ω	Open or chort
White–Black	69.6Ω	44.8Ω	55.3	Ω	20.7Ω	Open or short
Connector			0 00 74	A	onormal	
Brown–Yellow	SUGA	50GA	12, 60, 71			
Brown–Blue						
Red–Orange	186~214Ω	140	140~160Ω		n or short	
Red-Pink						
	Normal					
Connector	100, 125, 140	Abno	Abnormal			
Red-Yellow						
Red-Blue	140~1600		Open or short			
-						
Red-Pink						
		r element w	vith a tester.			
		Normal				Abnormal
50	60 71		100		125,140	
13.7Ω	9.1Ω		7.1Ω		6.4Ω	Open or short
13.7Ω 0.467kW 80V	9.1Ω 0.7kW 80V	0.9	7.1Ω kW 80V			Open or short
13.7Ω	9.1Ω 0.7kW 80V	0.9	7.1Ω kW 80V		6.4Ω	Open or short
13.7Ω 0.467kW 80V Measure the resistar (Winding temperature) Normal	9.1Ω 0.7kW 80V nce between the t e 20°C) Abnorma	0.91 erminals wit	7.1Ω kW 80V		6.4Ω	Open or short
13.7Ω0.467kW80VMeasure the resistar (Winding temperatur)	9.1Ω 0.7kW 80V nce between the t e 20℃)	0.91 erminals wit	7.1Ω kW 80V		6.4Ω	Open or short
13.7Ω 0.467kW 80V Measure the resistar (Winding temperature) Normal	9.1Ω 0.7kW 80V nce between the t e 20°C) Abnorma Open or sh	0.91 erminals wit	7.1Ω kW 80V th a tester.		6.4Ω	Open or short
13.7Ω0.467kW 80VMeasure the resistar (Winding temperatur Normal 195Ω	9.1Ω 0.7kW 80V nce between the t e 20°C) Abnorma Open or sh	0.9 erminals wit	7.1Ω kW 80V th a tester.		6.4Ω	Open or short
13.7Ω 0.467kW 80V Measure the resistar (Winding temperature) Normal 195Ω Measure the resistar	9.1Ω 0.7kW 80V ace between the t e 20°C) Abnorma Open or sh	0.9 erminals wit	7.1Ω kW 80V th a tester.		6.4Ω	Open or short
13.7Ω 0.467kW 80V Measure the resistar (Winding temperatur Normal 195Ω Measure the resistar Normal	9.1Ω 0.7kW 80V ace between the t e 20°C) Abnorma Open or sh	0.9 erminals wit al hort erminals wit	7.1Ω kW 80V th a tester.		6.4Ω	Open or short
	Normal Normal 4.3kΩ~9.6kΩ Measure the resistar (Winding temperature) Motor terminal or Relay connector Red–Black White–Black White–Black Connector Brown–Yellow Brown–Blue Red–Orange Red–Pink Connector Red–Pink Measure the resistar (At the ambient temp	(At the ambient temperature 10° C ~30 Normal Abnormal 4.3kQ~9.6kQ Open or sh Measure the resistance between the to (Winding temperature 20° C) Motor terminal Or Relay connector Red-Black 70.6Q White-Black 69.6Q Motor terminal Image: Connector Connector 50GA Brown-Yellow 186~214Q Red-Orange 186~214Q Red-Pink 100, 125, 140 Red-Pink 140~160Q Red-Orange 140~160Q Red-Pink 140~160Q	Disconnect the connector then measure the resist (At the ambient temperature $10^{\circ}C \cdot 30^{\circ}C$) Normal Abnormal $4.3k\Omega \sim 9.6k\Omega$ Open or short Measure the resistance between the terminals us (Winding temperature $20^{\circ}C$) Normal Motor terminal or Relay connector $50GA$ $50GA$ $50GA2$ $60, 71$ Red–Black 70.6Ω 45.0Ω White–Black 69.6Ω 44.8Ω 44.8Ω Connector $50GA$ $50GA$ $50GA$ Brown–Yellow $186\sim214\Omega$ Red–Orange $186\sim214\Omega$ Red–Pink $140\sim160\Omega$ Open or Red–Orange $140\sim160\Omega$ Red–Pink $140\sim160\Omega$ Open or Red–Pink	Disconnect the connector then measure the resistance with a (At the ambient temperature $10^{\circ}C - 30^{\circ}C$) Normal Abnormal (Refer to the formation of the second	Disconnect the connector then measure the resistance with a tester (At the ambient temperature 10° C -30° C) Normal Abnormal (Refer to the next) 4.3kQ~9.6kQ Open or short (Refer to the next) Measure the resistance between the terminals using a tester. (Winding temperature 20° C) Normal Measure the resistance between the terminals using a tester. (Winding temperature 20° C) Normal Motor terminal or Relay connector $50GA$ $50GA2$ 100 Red-Black $70.6Q$ $45.0Q$ $43.7Q$ White-Black $69.6Q$ $44.8Q$ $55.3Q$ Connector Normal At Brown-Yellow Brown-Blue $186-214Q$ $140-160Q$ Ope Red-Orange $186-214Q$ $140-160Q$ Ope Ope Red-Pink $140-160Q$ Open or short Open or short Open or short Red-Plue $140-160Q$ Open or short Open or short Open or short Open or short Red-Plue $140-160Q$ Open or short Open or short Open or short Open or short Red-Pink $140-160Q$ Open or short Open or short Open or short	Disconnect the connector then measure the resistance with a tester. (At the ambient temperature $10^{\circ}C - 30^{\circ}C$) Normal Abnormal (Refer to the next pege for a det 4.3kQ-9.6kQ Open or short Measure the resistance between the terminals using a tester. (Winding temperature $20^{\circ}C$) Motor terminal or Relay connector 50GA 50GA2 100 125, 140 Red-Black 70.6Q 45.0Q 43.7Q 20.4Q White-Black 69.6Q 44.8Q 55.3Q 20.7Q Connector 50GA 50GA2, 60, 71 Abnormal Brown-Yellow Brown-Blue Red-Orange 186-214Q 140-160Q Open or short Red-Pink Abnormal Connector 100, 125, 140 Red-Pink 0Open or short Red-Pink 0Open o



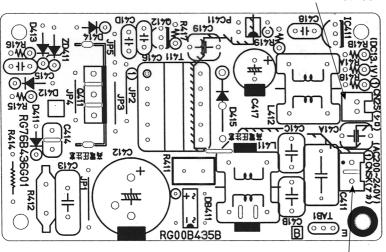
10-6.TEST POINT DIAGRAM

10-6-1. Power board				
PCA-RP50GA	PCA-RP50GA#1	PCA-RP50GAH		
PCA-RP60GA	PCA-RP60GA#1	PCA-RP60GAH		
PCA-RP71GA	PCA-RP71GA#1	PCA-RP71GAH		
PCA-RP100GA	PCA-RP100GA#1	PCA-RP100GAH		
PCA-RP125GA	PCA-RP125GA#1	PCA-RP125GAH		
PCA-RP140GA	PCA-RP140GA#1	PCA-RP140GAH		

PCA-RP50GA2

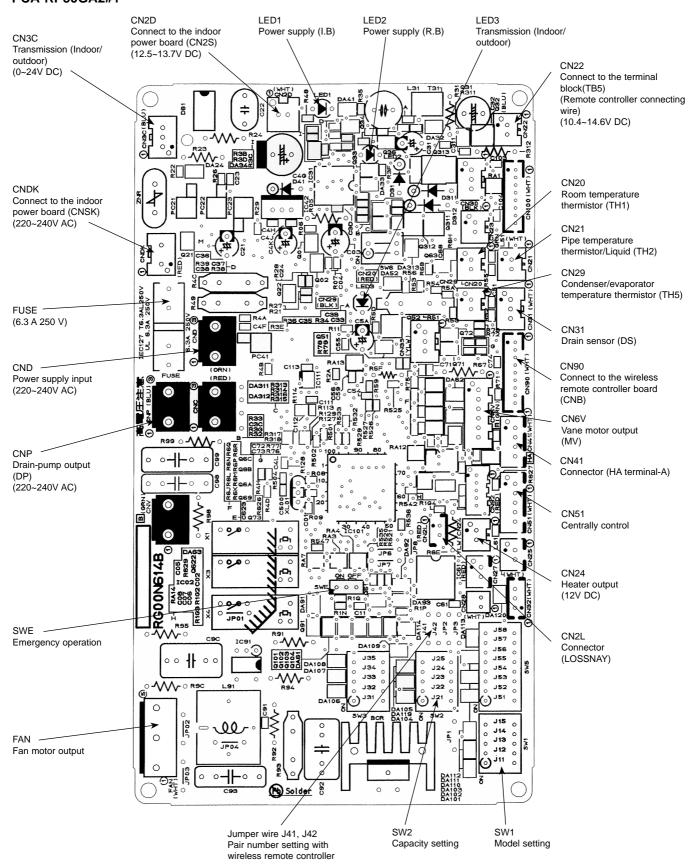
PCA-RP50GA2#1

CN2S Connect to the indoor controller board (CN2D) Between \bigcirc to \bigcirc 12.6-13.7V DC (Pin \bigcirc (+))



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

10-6-2. Indoor controller board PCA-RP50/60/71/100/125/140GA PCA-RP50/60/71/100/125/140GA#1 PCH-P50/60/71/100/125/140GAH PCA-RP50GA2 PCA-RP50GA2#1



10-7. 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
		For service board	
SW1	Model settings	1 2 3 4 5 ON OFF	
		MODELS Service board	
SW2	Capacity settings	PCA-RP50GA	
		PCA-RP50GA2 1 2 3 4 5 PCA-RP60GA ■ ■ ■ ■ ■ ■ ■ PCH-P60GAH ■ ■ ■ ■ ■ ■	
		PCA-RP71GA PCH-P71GAH	
		PCA-RP100GA 1 2 3 4 5 PCH-P100GAH ON OFF	
		PCA-RP125GA	
		PCA-RP140GAH	
J41 J42	Pair number setting with wireless remote controller	Wireless remote controller settingControl PCB setting001×203 ~ 9×	<pre><initial setting=""> 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.)</initial></pre>
JP1	Unit type setting	ModelJP1Without TH5OWith TH5×	There is no jumper (JP1) because these models have the cond./eva. temperature thermistor (TH5).
JP3	Indoor controller board type setting	Indoor controller board typeJP3For product×Service partsO	

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

11-1. ROTATION FUNCTION(AND BACK-UP FUNCTION, 2ND STAGE CUT-IN FUNCTION) For PCA-RP50/60/71/100/125/140GA#1,PCA-RP50GA2#1

11-1-1. Operation

11

(1) Rotation function (and Back-up function)

Outline of functions

· Main and sub unit operate alternately according to the interval of rotation setting.

* Main and sub unit should be set by refrigerant address.(Outdoor Dip switch setting)

- Refrigerant address"00" → Main unit
- Refrigerant address"01" ---> Sub unit

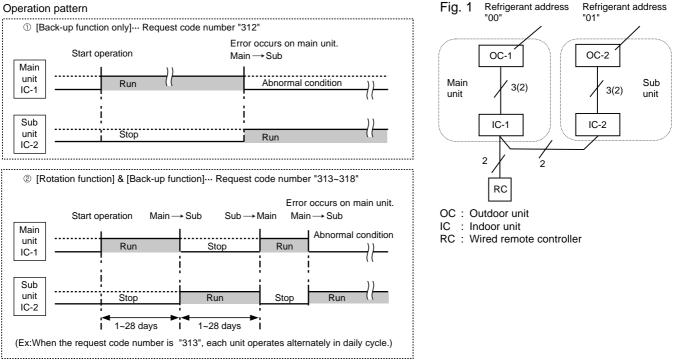
· When error occurrs to one unit, another unit will start operation.(Back-up function)

System constraint

- This function is available only by the grouping control system(INDOOR UNIT : OUTDOOR UNIT=1:1) of 2 refrigerant groups.(Refer to Fig. 1)
- · Main indoor unit should be connected for wired remote controller and the transmission line(TB5) for main and sub unit should also be connected. (Refer to Fig. 1)

(This function cannot be set by wireless remote controller.)

· Set refrigerant address of each unit.(Dip switch on the outdoor unit---Refrigerant address 00/01)



Note:

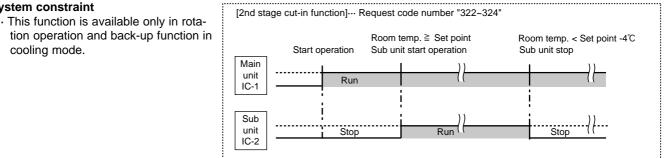
- · When the uint is restarted to operate after turning off the power or OFF operation, the unit which was operating will start operation.
- To operate the main unit, refer to the 11-1-2, and set the requet code No. which is not the same as the current one, and set again the former request code No.

(2) 2nd stage cut-in function

Outline of functions

- · Number of operating units is determined according to the room temperature and set point.
- · When room temperature becomes higher than set point, standby unit starts.(2 units operation)
- When room temperature falls below set point -4°C, standby unit stops.(1 unit operation)

System constraint



11-1-2. How to set rotation function(Back-up function, 2nd stage cut-in function) You can set these functions by wired remote controller.(Maintenance monitor)

- NOTICE -

Both main and sub unit should be set in same setting. Every time replacing indoor controller board for servicing, the function should be set again.

(1) Request Code List

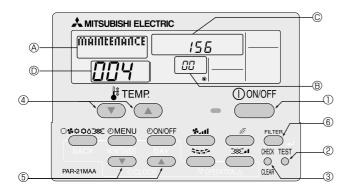
Rotation setting

Setting No. (Request code)	Setting contents	Initial setting
No.1 (310)	Monitoring the request code of current setting.	
No.2 (311)	Rotation and Back-up OFF (Normal group control operation)	\bigcirc
No.3 (312)	Back-up function only	
No.4 (313)	Rotation ON (Alternating interval = 1day) and back up function	
No.5 (314)	Rotation ON (Alternating interval = 3day) and back up function	
No.6 (315)	Rotation ON (Alternating interval = 5day) and back up function	
No.7 (316)	Rotation ON (Alternating interval = 7day) and back up function	
No.8 (317)	Rotation ON (Alternating interval = 14day) and back up function	
No.9 (318)	Rotation ON (Alternating interval = 28day) and back up function	

2nd stage cut-in setting

Setting No. (Request code)	Setting contents	Initial setting
No.1 (320)	Monitoring the request code of current setting.	
No.2 (321)	Cut-in function OFF	\bigcirc
No.3 (322)	Cut-in Function ON(Set point = Set temp.+ 4°C(7.2°F))	
No.4 (323)	Cut-in Function ON(Set point = Set temp.+ 6°C(10.8°F))	
No.5 (324)	Cut-in Function ON(Set point = Set temp.+ 8°C(14.4°F))	

(2) Setting method of each function by wired remote controller



- B: Refrigerant address
- C: Data display area D: Request code display area

- 1. Stop operation(①).
- 2. Press the TEST button (②) for 3 seconds so that [Maintenance mode] appears on the screen (A). After a while, [00] appears in the refrigerant address number display area.(at B)
- Press the CHECK button (③) for 3 seconds to switch to [Maintenance monitor].
 Note) It is not possible to switch to [Maintenance monitor] during data request in maintenance mode (i.e., while "----" is blinking) since no buttons are operative.

[----] appears on the screen (\mathbb{O}) when [Maintenance monitor] is activated. (The display (\mathbb{O}) now allows you to set a request code No.)

- 4. Press the [TEMP (\bigcirc and \bigcirc)] buttons (④) to select the desired refrigerant address. [ScreenB] $\rightarrow 00 \leftrightarrow 01 \leftrightarrow \cdots \leftrightarrow 15 \leftarrow$
- 5. Press the [CLOCK (> and)] buttons (5) to set the desired request code No.("311~318", "321~324")
- 6. Press the FILTER button ([®]) to perform function setting.
 If above setting operations are done correctly, "Request code number will appear in data display area.([©])
 [Example: When the "311" of "Request code number" is set, [311] appears on the screen.([©])]

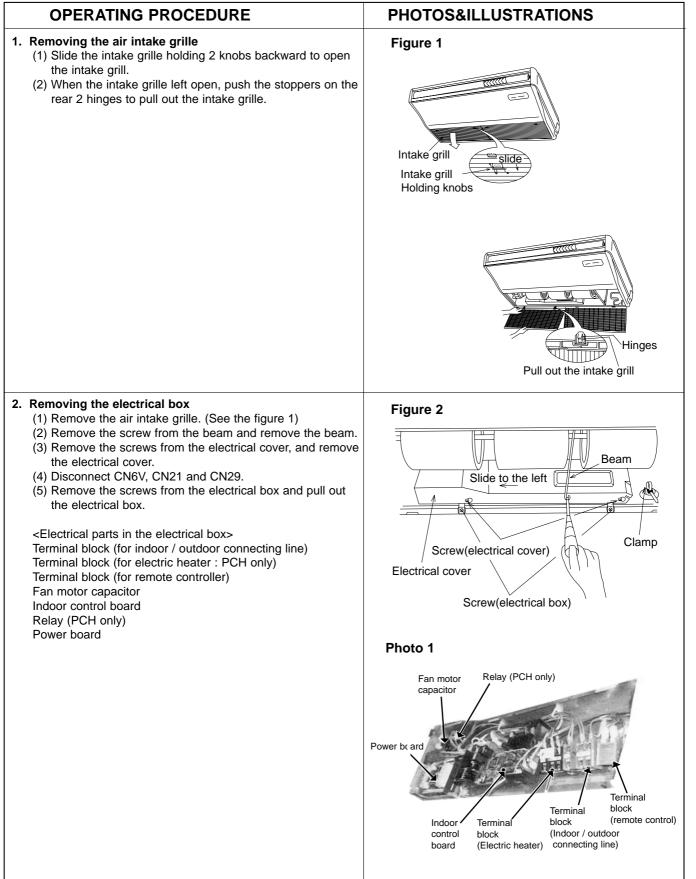
[Reference]

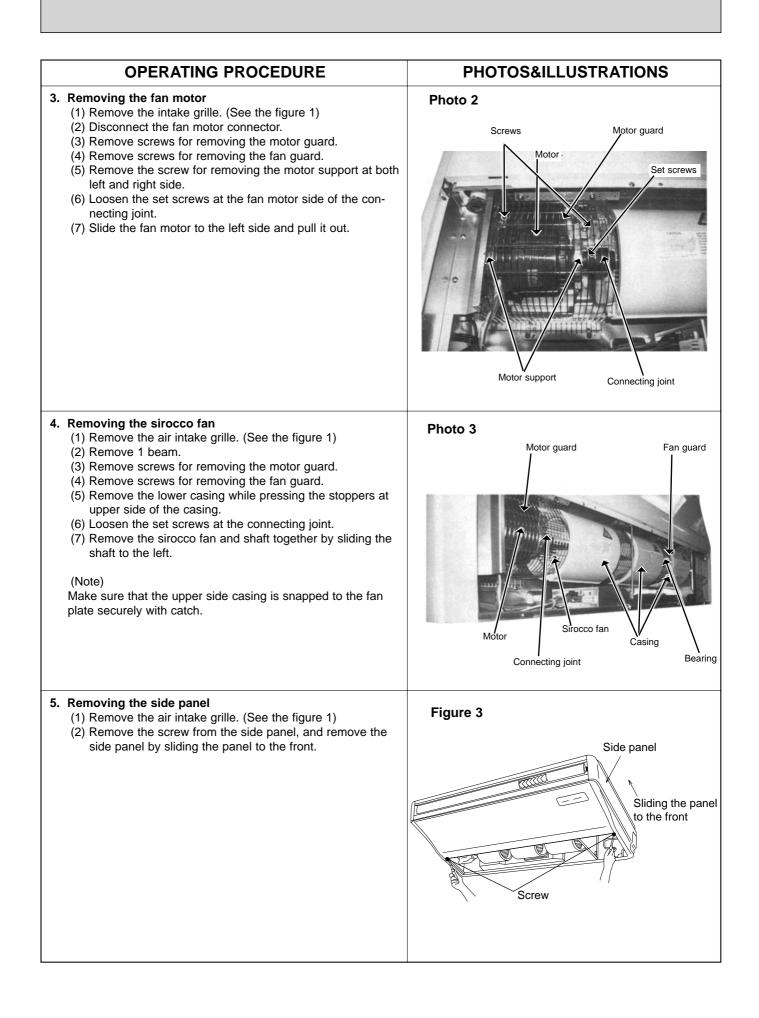
You can check current "request code number" setting by setting the "request code number" ("310" or "320") and pressing the FILTER button. (6)

[Example: When the current setting is "Setting No.2(Request code 311)", [311] appears on the screen.(©)]

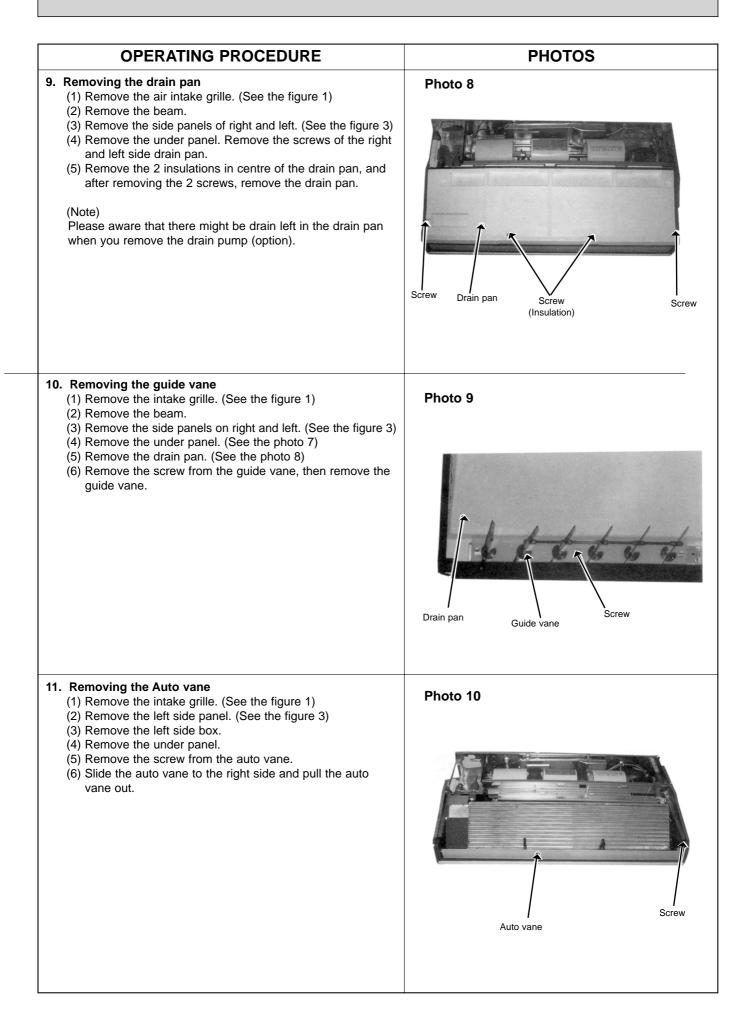
7. To return to normal mode, press the $\bigcirc ON/OFF$ button (\bigcirc) .

PCA-RP50/60/71/100/125/140GA PCA-RP50/60/71/100/125/140GA#1 PCA-RP50GA2 PCA-RP50GA2#1 PCH-P50/60/71/100/125/140GAH



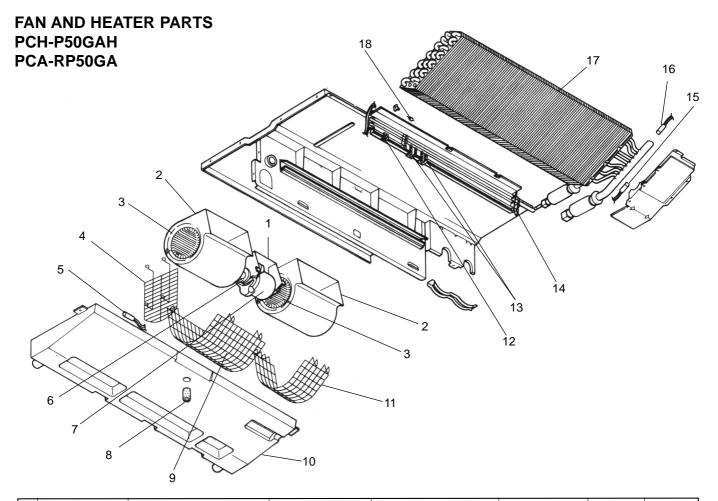


OPERATING PROCEDURE	PHOTOS
 6. Removing the vane motor Remove the air intake grille. (See the figure 1) Remove the left side panel. (See the figure 3) Remove the relay connector of vane motor. Remove the electrical box. Remove the screws of vane motor, then remove vane motor. Remove the lead wires and connectors properly and place them in the proper position so that the wires are not pinched by other parts. 	Photo 4 Screw Relay connector of the vane motor Screw Connector of the vane motor Screw New Motor New Motor Screw New Motor New New Motor New Motor New Motor New New Motor
 7. Removing the Indoor coil thermistor (1) Remove the air intake grille. (See the figure 1) (2) Remove the right side panel. (See the figure 3) (3) Remove the relay connector of the pipe thermistor. (4) Remove the screw, and remove the check panel. (5) Extract the indoor coil thermistor from the holder. <caution for="" installation="" the=""></caution> There is a possibility for the short circuit when connector gets wet by water through the thermistor lead wire. Therefore, lead wire of the indoor coil thermistor should be tied as shown in the photo 6. 	Photo 5 Screw Check panel Left side panel Photo 6 Photo 6
 8. Removing the Under panel (1) Remove the air intake grille. (See the figure 1) (2) Remove the beam. (3) Remove the side panel (right and left). (See the figure 3) (4) Remove the 9 screws of the under panel, then remove the under panel. * Weight of the under panel : approx. 2kg. 	Photo 7 Crews Under panel

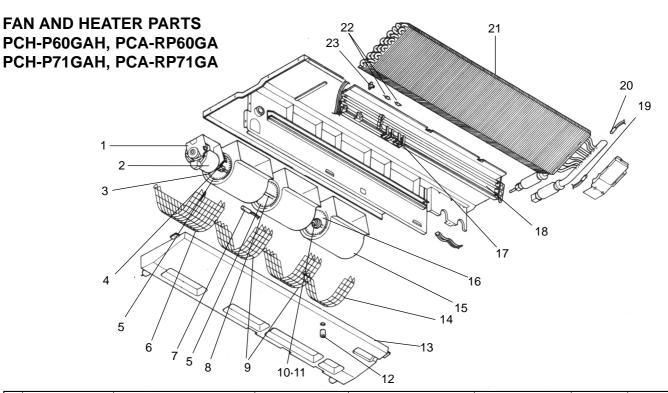


	PHOTOS
OPERATING PROCEDURE	PHOTOS
 12. Removing the electric heater. (PCH only) Remove the air intake grille. (See the figure 1) Remove the beam. (3) Remove the electrical box cover and disconnect the connector (6P red) of the heater. Loosen 2 clamps for the heater lead wires. Remove the side panel (right and left). (See the figure 3) Remove the under panel. (See the photo 7) Remove the drain pan. (See the photo 8) Remove the 3 screws from the service panel. Pull out the heater with the service panel. 	<image/>
 13. Removing the heat exchanger. Remove the air intake grille. (See the figure 1) Remove the beam. Remove the side panel (right and left). (See the figure 3) Disconnect the relay connector of the pipe thermistor. Remove the under panel. (See the photo 7) Remove the drain pan. (See the photo 8) Unscrew the screw of the pipe cover, and remove the pipe cover. Unscrew the screw of the pipe support, and remove the pipe support. Unscrew the screw of the heat exchanger, and remove the heat exchanger. Remove the heat exchanger with care. Since this is quite heavy, removing work should be done with more than 2 people. *Weight of heat exchanger : approx. 5.3kg 	<image/> <image/> <image/> <section-header></section-header>

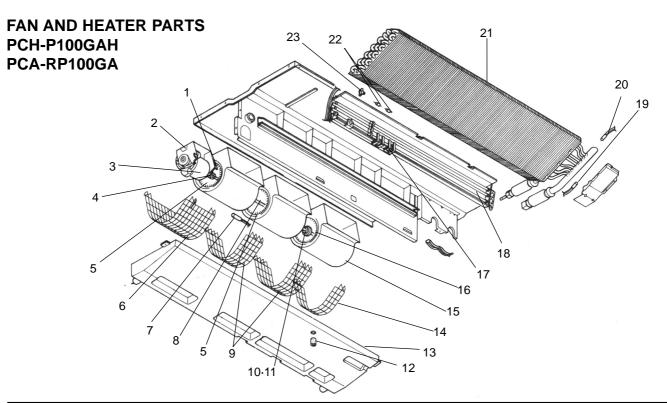
13 PARTS LIST(non-RoHS compliant)



				Q'ty	/ set		Wiring	Recom-
No.	Parts No.	Parts Name	Specifications	PCH-	PCA-	Remarks (Drawing No.)	Diagram	mended
				P50GAH	RP50GA	(Brawing No.)	Symbol	Q'ty
1	R01 17J 130	MOTOR LEG		1	1			
2	R01 17J 110	CASING		2	2			
3	R01 17J 114	SIROCCO FAN		2	2			
4	T7W 19J 675	FAN GUARD		1	1			
5	R01 E26 202	ROOM TEMPERATURE THERMISTOR		1	1		TH1	
6	R01 43E 126	PIECE (MOTOR)		1	1			
7	R01 17J 220	FAN MOTOR	D09B4P54MS	1	1		MF	
8	R01 17J 524	DRAIN PLUG		1	1			
9	T7W 17J 675	FAN GUARD		1	1			
10	R01 A14 529	DRAIN PAN ASSY		1	1			
11	T7W 18J 675	FAN GUARD		1	1			
12	R01 46K 700	THERMAL SWITCH	OFF:50℃ ON:35℃	1			26H	
4.0	R01 18J 303	INSULATOR		3				
13	R01 20J 303	INSULATOR		1				
14	T7W 23J 300	HEATER ELEMENT	80V 466W	3			H1	
15	R01 17J 202	PIPE TEMPERATURE THERMISTOR		1	1		TH2	
16	R01 E27 202	Condenser / Evaporator temperature thermistor		1	1		TH5	
4-	R01 E38 480	HEAT EXCHANGER		1				
17	T7W K00 480	HEAT EXCHANGER			1			
18	R01 P02 706	THERMAL FUSE	250V 98℃ 10A	1			FS1,2	



					Q'ty	/ set			Wiring	Deserve
No.	Parts No.	Parts Name	Specifications	PC			A-	Remarks	Diagram	Recom- mended
				P60 GAH	P71 GAH	RP60 GA	RP71 GA	(Drawing No.)	Symbol	Q'ty
1	R01 29J 130	MOTOR LEG		1	1	1	1			
2	T7W 30J 762	FAN MOTOR	DO9C4P70MS	1	1	1	1		MF	
3	R01 700 116	SHAFT JOINT		1	1	1	1			
4	R01 43E 126	PIECE (MOTOR)		1	1	1	1			
5	R01 29J 114	SIROCCO FAN		2	2	2	2			
6	T7W 20J 675	FAN GUARD		1	1	1	1			
7	R01 E26 202	ROOM TEMPERATURE THERMISTOR		1	1	1	1		TH1	
8	R01 29J 100	SHAFT (FAN)		1	1	1	1			
9	T7W 21J 675	FAN GUARD		2	2	2	2			
10	R01 E00 103	SLEEVE BEARING		1	1	1	1			
11	R01 29J 145	BEARING SUPPORT		1	1	1	1			
12	R01 17J 524	DRAIN PLUG		1	1	1	1			
13	R01 A15 529	DRAIN PAN ASSY		1	1	1	1			
14	T7W 18J 675	FAN GUARD		1	1	1	1			
15	R01 17J 110	CASING		3	3	3	3			
16	R01 33J 114	SIROCCO FAN		1	1	1	1			
17	R01 20J 303	INSULATOR		1	1					
	R01 30J 303	INSULATOR		3	3					
18	T7W 30J 300	HEATER ELEMENT	80V 700W	3	3				H1	
19	R01 17J 202	PIPE TEMPERATURE THERMISTOR		1	1	1	1		TH2	
20	R01 E27 202	Condenser / Evaporator temperature thermistor		1	1	1	1		TH5	
21	R01 H00 480	HEAT EXCHANGER		1	1		1			
21	T7W K01 480	HEAT EXCHANGER				1				
22	T7W 23J 706	THERMAL FUSE	110 ℃ 16A 250V	1	1				FS1,2	
23	R01 46K 700	THERMAL SWITCH	OFF:50℃ ON:35 ℃	1	1				26H	



				Q'ty	/ set		Wiring	Recom-
No.	Parts No.	Parts Name	Specifications	PCH-	PCA-	Remarks (Drawing No.)	Diagram	mended
				P100GAH	RP100GA	(Drawing No.)	Symbol	Q'ty
1	R01 43E 126	PIECE (MOTOR)		1	1			
2	R01 35J 130	MOTOR LEG		1	1			
3	R01 35J 220	FAN MOTOR	D10B4P90MS	1	1		MF	
4	R01 700 116	SHAFT JOINT		1	1			
5	R01 35J 114	SIROCCO FAN		2	2			
6	T7W 22J 675	FAN GUARD		1	1			
7	R01 E26 202	ROOM TEMPERATURE THERMISTOR		1	1		TH1	
8	R01 29J 100	SHAFT		1	1			
9	T7W 23J 675	FAN GUARD		2	2			
10	R01 E00 103	SLEEVE BEARING		1	1			
11	R01 35J 145	BEARING SUPPORT		1	1			
12	R01 17J 524	DRAIN PLUG		1	1			
13	R01 A16 529	DRAIN PAN ASSY		1	1			
14	T7W 24J 675	FAN GUARD		1	1			
15	R01 35J 110	CASING		3	3			
16	R01 39J 114	SIROCCO FAN		1	1			
	R01 20J 303	INSULATOR		1				
17	R01 36J 303	INSULATOR		3				
18	T7W 39J 300	HEATER ELEMENT	80V 900W	3			H1	
19	R01 17J 202	PIPE TEMPERATURE THERMISTOR		1	1		TH2	
20	R01 E27 202	Condenser / Evaporator temperature thermistor		1	1		TH5	
	R01 E33 480	HEAT EXCHANGER		1				
21	T7W K02 480	HEAT EXCHANGER			1			
22	T7W 589 706	THERMAL FUSE	117℃ 16A 250V	1			FS1,2	
23	R01 46K 700	THERMAL SWITCH	OFF:50℃ ON:35℃	1			26H	

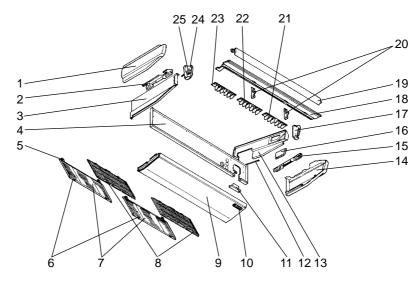
FAN AND HEATER PARTS PCH-P125GAH, PCA-RP125GA PCH-P140GAH, PCA-RP140GA 5 -6 -17.18 9[′]12[′]

				(Q'ty	/ set	:			_
No.	Parts No.	Parts Name	Specifications	PC	:Н-	PC	A-	Remarks	Wiring Diagram	Recom- mended
			•	P125 GAH	P140 GAH	RP125 GA		(Drawing No.)	Symbol	Q'ty
1	R01 29J 100	SHAFT		1	1	1	1			
2	R01 41J 130	MOTOR LEG		1	1	1	1			
3	R01 41J 220	FAN MOTOR	D10B4P150MS	1	1	1	1		MF	
4	R01 43E 126	PIECE (MOTOR)		1	1	1	1			
5	R01 41J 114	SIROCCO FAN		1	1	1	1			
6	T7W 26J 675	FAN GUARD		1	1	1	1			
7	R01 E26 202	ROOM TEMPERATURE THERMISTOR		1	1	1	1		TH1	
8	T7W 25J 675	FAN GUARD		1	1	1	1			
9	R01 35J 114	SIROCCO FAN		2	2	2	2			
10	R01 700 116	SHAFT JOINT		1	1	1	1			
11	R01 A17 529	DRAIN PAN ASSY		1	1	1	1			
12	T7W 23J 675	FAN GUARD		2	2	2	2			
13	R01 39J 114	SIROCCO FAN		1	1	1	1			
14	R01 17J 524	DRAIN PLUG		1	1	1	1			
15	T7W 24J 675	FAN GUARD		1	1	1	1			
16	R01 35J 110	CASING		4	4	4	4			
17	R01 E00 103	SLEEVE BEARING		1	1	1	1			
18	R01 35J 145	BEARING SUPPORT		1	1	1	1			
19	R01 20J 303	INSULATOR		1	1					
13	R01 36J 303	INSULATOR		6	6					
20	T7W 43J 300	HEATER ELEMENT	80V 1000W	3	3				H1	
21	R01 17J 202	PIPE TEMPERATURE THERMISTOR		1	1	1	1		TH2	
22	R01 E27 202	CONDENSER / EVAPORATOR TEMPERATURE THERMISTOR		1	1	1	1		TH5	
	T7W K03 480	HEAT EXCHANGER				1				
23	T7W K04 480	HEAT EXCHANGER					1			
2.5	T7W K05 480	HEAT EXCHANGER		1						
	T7W K06 480	HEAT EXCHANGER			1					
24	T7W 23J 706	THERMAL FUSE	110℃ 16A 250V	1	1				FS1,2	
25	R01 46K 700	THERMAL SWITCH	OFF:50℃ ON:35℃	1	1				26H	

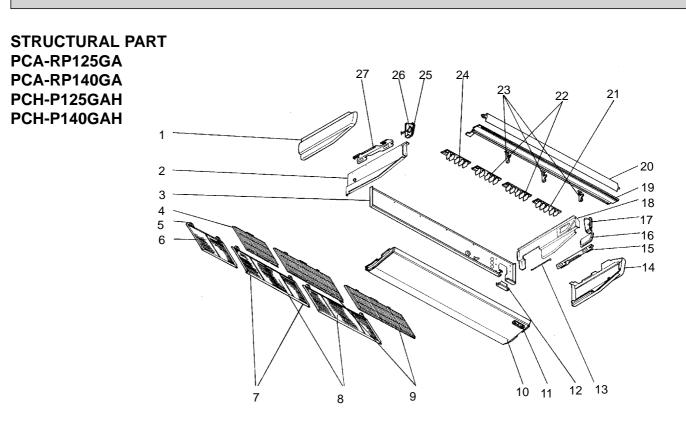
STRUCTURAL PART PCA-RP50GA PCH-P50GAH 26 25 24 23 22 21 20 Ð 1 PRODO 19 2 3 18 , Ø 17 Δ 16 -15 5 6 7 8 9 10 11 12 13 14

						Q'ty/set	Remarks	Wiring	Recom-
No.	Pa	rts No).	Parts Name	Specifications	PCA-RP50GA PCH-P50GAH	(Drawing No.)	Diagram Symbol	mended Q'ty
1	R01	57N	666	S.PLATE-L		1			
2	R01	A15	500	L.L FILTER		1			
3	R01	17J	061	GRILLE HINGE		4			
4	R01	18J	691	GRILLE ASSY		1			
5	R01	17J	691	GRILLE ASSY		1			
6	R01	17J	054	GRILLE CATCH		4			
7	R01	A14	500	L.L FILTER		1			
8		—		REAR SUPPORT		1	(BG02H454K01)		
9	R01	17J	669	UNDER PANEL		1			
10		_		BEAM(GA)		2	(BG17H464H08)		
11	T7W	E01	070	W.BOARD CASE		1			
12	R01	18J	665	S.PLATE-R		1			
13	R01	17J	808	RIGHT LEG (R)		1			
14	R01	17J	668	SERVICE PANEL		1			
15	R01	17J	661	RIGHT SIDE PANEL		1			
16	R01	17J	067	RIGHT SIDE BOX		1			
17	R01	37J	085	G.V ASSY-6R		1			
18	R01	E00	033	VANE SUPPORT		1			
19	R01	17J	651	FRONT PANEL		1			
20	R01	17J	002	AUTO VANE		1			
21	R01	37J	086	G.V ASSY-6L		1			
22	R01	A14	676	REAR PANEL		1			
23	R01	17J	068	LEFT SIDE BOX		1			
24	R01	E03	223	VANE MOTOR		1		MV	
25	R01	17J	809	LEFT LEG (L)		1			
26	R01	17J	662	LEFT SIDE PANEL		1			
27	R01	17J	523	JOINT SOCKET		1			
28	T7W	E00	072	DRAIN HOSE COVER		1			

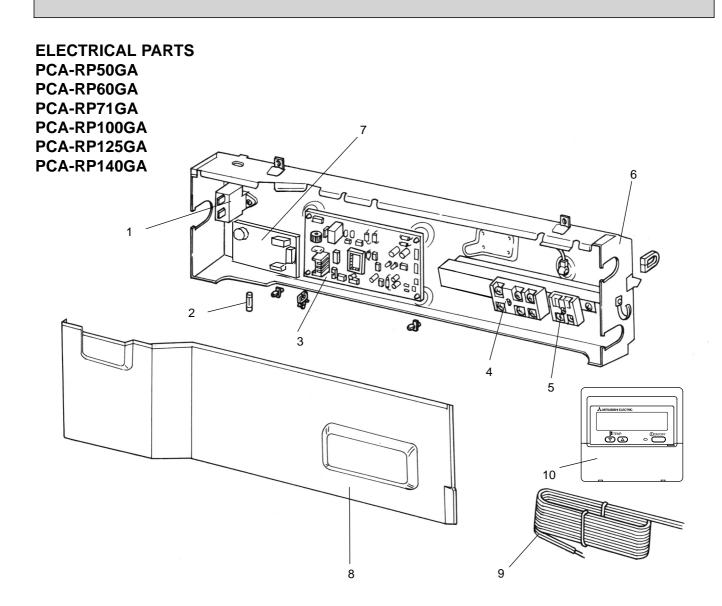
STRUCTURAL PART PCA-RP60GA PCA-RP71GA PCA-RP100GA PCH-P60GAH PCH-P71GAH PCH-P100GAH



No.	Pa	rts No).	Parts Name	Specifications	PCA-RP 60/71	r/set P/PCH-P 100	Remarks (Drawing No.)	Diagram	
						GA/	GAH	(D.ag.10)/	Symbol	Q'ty
	R01	17J	662	LEFT SIDE PANEL		1				
1	R01	35J	662	LEFT SIDE PANEL			1			
2	R01	17J	809	LEFT LEG		1	1			
3	R01	57N	666	S.PLATE-L		1				
1	R01	35J	666	S.PLATE-L			1			
4	R01	A15	676	REAR PANEL		1				
14	R01	A16	676	REAR PANEL			1			
5	R01	17J	061	GRILLE HINGE		4	4			
6	R01	17J	054	GRILLE CATCH		4	4			
7	R01	17J	691	GRILLE ASSY		2	2			
8	R01	A14	500	L.L FILTER		2	2			
9	R01	29J	669	UNDER PANEL		1	1			
10	T7W	E01	070	W.BOARD CASE		1	1			
11		_		REAR SUPPORT		1	1	(BG02H454K01)		
12				BEAM (GA)		2	2	(BG17H464H08)		
13	R01	18J	665	S.PLATE-R		1		, ,		
13	R01	E00	665	S.PLATE-R			1			
	R01	17J	661	RIGHT SIDE PANEL		1	_			
14	R01	35J	661	RIGHT SIDE PANEL		_	1			
15		17J	808			1	1			
	DOA	17J	668			1	-			
16	R01	18J	668			-	1			
	D01	17J	067			1	-			
17	R01	35J	067	RIGHT SIDE BOX		•	1			
	D04	29J	651	FRONT PANEL		1	-			
18	R01	36J		FRONT PANEL		•	1			
	D01	29J		AUTO VANE		1	-			
19	R01	E03	002			•	1			
	DOA	E00		VANE SUPPORT		2	•			
20	R01	E01	033	VANE SUPPORT		-	2			
21		37J	085	G.V ASSY-6R		1	1			
22		37J	085	G.V ASSY-6C		1	1			
23		37J	086	G.V ASSY-6L		1	1			
		17J		LEFT SIDE BOX		1	•			
24	R01	E00		LEFT SIDE BOX		•	1			
-	D 04	29J		VANE MOTOR		1	1		ΜV	
25	R01	29J 35J	223			1	1		MV	
96	R01	<u>35J</u> 17J		JOINT SOCKET		1	1			
27)										
\mathbf{e}	T7W		0/2	DRAIN HOSE COVER		1	1			

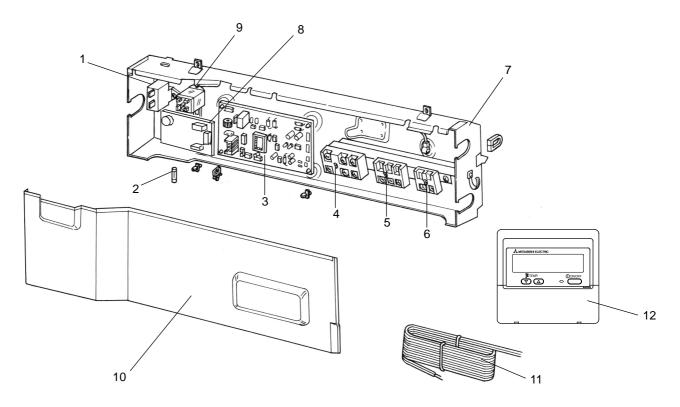


No.	Parts N	о.	Parts Name	Specifications	Q'ty/set PCA-RP125/140GA	Remarks (Drawing No.)		Recom- mended
				-	PCH-P125/140GAH	(Drawing No.)	Symbol	Q'ty
1	R01 35J	662	LEFT SIDE PANEL		1			
2	R01 35J	666	S.PLATE-L		1			
З	R01 A17	676	REAR PANEL		1			
4	R01 A15	500	L.L FILTER		1			
5	R01 17J	061	GRILLE HINGE		6			
6	R01 18J	691	GRILLE ASSY		1			
7	R01 17J	054	GRILLE CATCH		6			
8	R01 17J	691	GRILLE ASSY		2			
9	R01 A14	500	L.L FILTER		2			
10	R01 41J	669	UNDER PANEL		1			
11	T7W E01	070	W.BOARD CASE		1			
12	l		REAR SUPPORT		1	(BG02H454K01)		
13			BEAM(GA)		3	(BG17H464H08)		
14	R01 35J	661	RIGHT SIDE PANEL		1			
15	R01 17J	808	RIGHT LEG		1			
16	R01 18J	668	SERVICE PANEL		1			
17	R01 35J	067	RIGHT SIDE BOX		1			
18	R01 E00	665	S.PLATE-R		1			
19	R01 41J	651	FRONT PANEL		1			
20	R01 E04	002	AUTO VANE		1			
21	R01 41J	085	G.V ASSY-5R		1			
22	R01 43J	087	G.V ASSY-5C		2			
23	R01 E01	033	VANE SUPPORT		3			
24	R01 42J	086	G.V ASSY-5L		1			
25	R01 E00	068	LEFT SIDE BOX		1			
26	R01 35J	223	VANE MOTOR		1		MV	
27	R01 17J	809	LEFT LEG		1			
28	R01 17J	523	JOINT SOCKET		1			
29	T7W E00	072	DRAIN HOSE COVER		1			



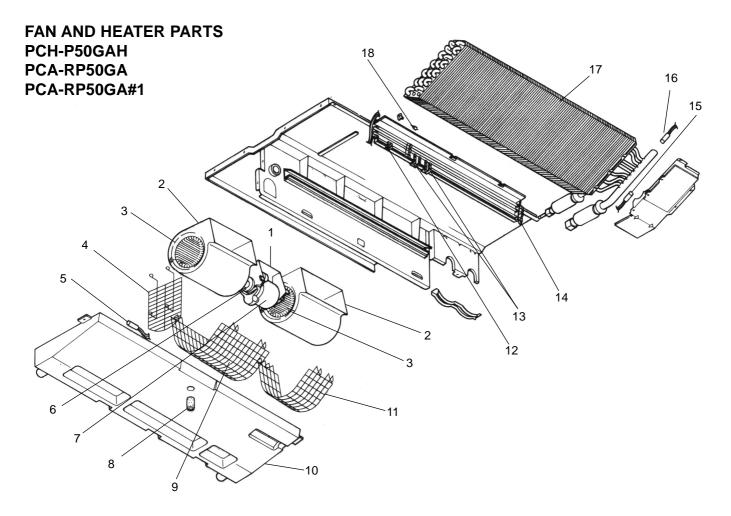
					Q'	ty			P.B	
No.	Parts No.	Parts Name	Specifications		PCA			Remarks		Recom- mended
10.	Tarts No.		opecifications	50	60/71		125/140	(Drawing No.)		Q'ty
					G	A				
	R01 30L 255	CAPACITOR	3 μF 440V	1					С	
1	T7W 39J 255	CAPACITOR	4 μF 440V		1	1			С	
	R01 A13 255	CAPACITOR	6 μF 440V				1		С	
2	R01 E02 239	FUSE	250V 6.3A	1	1	1	1		FUSE	
3	T7W E40 310	INDOOR CONTROLLER BOARD		1	1	1	1		I.B	
4	T7W E23 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB4	
5	T7W 512 716	TERMINAL BLOCK	2P(1,2)	1	1	1	1		TB5	
6	—	CONTROL BOX		1	1	1	1	(BG00N015G31)		
7	R01 E02 313	POWER BOARD		1	1	1	1		P.B	
	—	CONTROL COVER		1				(BG02A804G27)		
8	—	CONTROL COVER			1		1	(BG02A804G28)		
	—	CONTROL COVER				1		(BG02A804G29)		
9	T7W A00 305	REMOTE CONTROLLER CORD		1	1	1	1			
10	T7W E08 713	REMOTE CONTROLLER	PAR-21MAA	1	1	1	1		R.B	

ELECTRICAL PARTS PCH-P50GAH, PCH-P100GAH PCH-P60GAH, PCH-P125GAH PCH-P71GAH, PCH-P140GAH

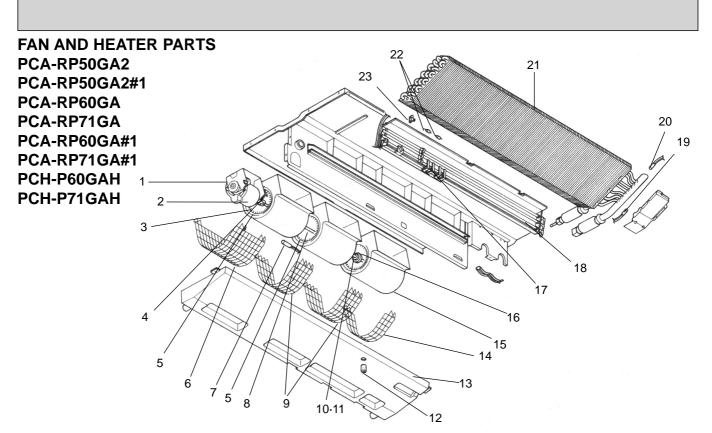


						/ set H-P		Remarks	Wiring	Recom-
No.	Parts No.	Parts Name	Specifications	50	60/71		125/140	(Drawing No.)	Diagram	mended
				- 50	GA		123/140		Symbol	Q'ty
	R01 30L 255	CAPACITOR	3 μF 440V	1					С	
1	T7W 39J 255	CAPACITOR	4 μF 440V		1	1			С	
	R01 A13 255	CAPACITOR	6 μF 440V				1		С	
2	R01 E02 239	FUSE	250V 6.3A	1	1	1	1		FUSE	
3	T7W E40 310	INDOOR CONTROLLER BOARD		1	1	1	1		I.B	
4	T7W A14 716	TERMINAL BLOCK	3P (L,N, 🕀)	1	1	1	1		TB2	
5	T7W E23 716	TERMINAL BLOCK	3P (S1,S2,S3)	1	1	1	1		TB4	
6	T7W 512 716	TERMINAL BLOCK	2P (1,2)	1	1	1	1		TB5	
7	—	CONTROL BOX		1	1	1	1	(BG00N015G32)		
8	R01 E02 313	POWER BOARD		1	1	1	1		P.B	
9	R01 71G 215	RELAY	JC-1A DC12V	1	1	1	1		88H	
	—	CONTROL COVER		1				(BG02A804G27)		
10	—	CONTROL COVER			1		1	(BG02A804G28)		
		CONTROL COVER				1		(BG02A804G29)		
11	T7W A00 305	REMOTE CONTROLLER CORD	10m	1	1	1	1			
12	T7W E08 713	REMOTE CONTROLLER	PAR-21MAA	1	1	1	1		R.B	

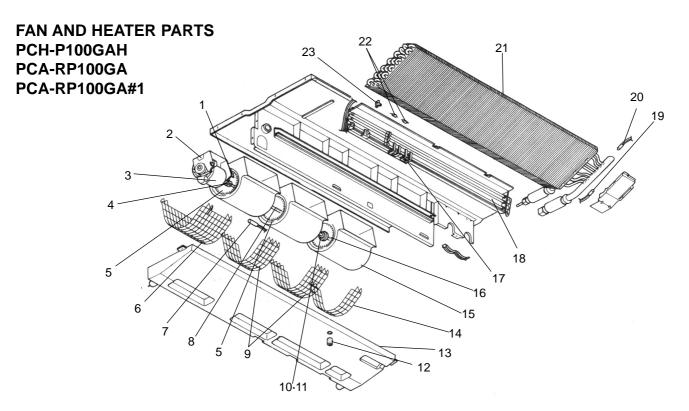
14 RoHS PARTS LIST



	S				C	Q'ty / set		_ .	Wiring	Recom-
No.	RoHS	Parts No.	Parts Name	Specifications	PCH-P	PCA	A-RP	Remarks (Drawing No.)	Diagram	mended
	8				50GAH	50GA	50GA#1	(Brawing No.)	Symbol	Q'ty
1	G	R01 31J 130	MOTOR LEG		1	1	1			
2	G	R01 18J 110	CASING		2	2	2			
3	G	R01 E16 114	SIROCCO FAN		2	2	2			
4	G	T7W 31J 675	FAN GUARD		1	1	1			
5	G	R01 H08 202	ROOM TEMPERATURE THERMISTOR		1	1	1		TH1	
6	G	R01 45E 126	PIECE (MOTOR)		1	1	1			
7	G	R01 18J 220	FAN MOTOR	D09B4P54MS	1	1	1		MF	
8	G	R01 18J 524	DRAIN PLUG		1	1	1			
9	G	T7W 30J 675	FAN GUARD		1	1	1			
10	G	R01 E27 529	DRAIN PAN ASSY		1	1	1			
11	G	T7W 29J 675	FAN GUARD		1	1	1			
12	G	R01 E13 700	THERMAL SWITCH	OFF:50℃ ON:35℃	1				26H	
4.0	G	R01 21J 303	INSULATOR		3					
13	G	R01 31J 303	INSULATOR		1					
14	G	T7W E21 300	HEATER ELEMENT	80V 467W	3				H1	
15	G	R01 H10 202	PIPE TEMPERATURE THERMISTOR		1	1	1		TH2	
16	G	R01 H09 202	CONDENSER / EVAPORATOR TEMPERATURE THERMISTOR		1	1	1		TH5	
-	G	R01 N08 480	HEAT EXCHANGER		1					
17	G	T7W H41 480	HEAT EXCHANGER			1	1			
18	G	R01 P03 706	THERMAL FUSE	250V 98℃ 10A	1				FS1,2	



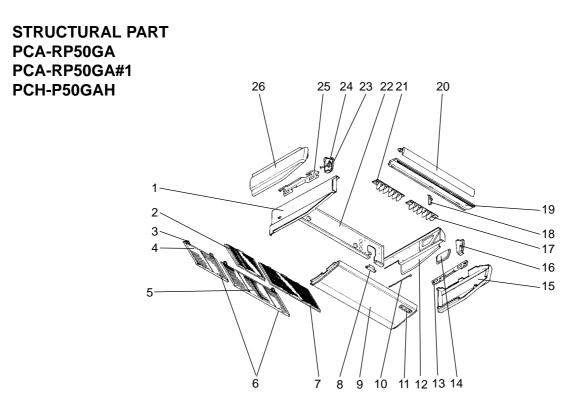
	<i>(</i> 0					C	Q'ty / se	et				
No.	HS	Parts No.	Parts Name	Specifications	PC	H- P		PCA- R		Remarks		Recom- mended
	Å					71GAH	50GA2 50GA2#1		71GA 71GA#1	(Drawing No.)	Symbol	
1	G	R01 30J 130	MOTOR LEG		1	1	1	1	1			
2	G	T7W 40J 762	FAN MOTOR	DO9C4P70MS	1	1	1	1	1		MF	
3	G	R01 800 116	SHAFT JOINT		1	1	1	1	1			
4	G	R01 45E 126	PIECE (MOTOR)		1	1	1	1	1			
5	G	R01 E17 114	SIROCCO FAN		2	2	2	2	2			
6	G	T7W 29J 675	FAN GUARD		1	1	1	1	1			
7	G	R01 H08 202	ROOM TEMPERATURE THERMISTOR		1	1	1	1	1		TH1	
8	G	R01 30J 100	SHAFT (FAN)		1	1	1	1	1			
9	G	T7W 28J 675	FAN GUARD		2	2	2	2	2			
10	G	R01 E02 103	SLEEVE BEARING		1	1	1	1	1			
11	G	R01 30J 145	BEARING SUPPORT		1	1	1	1	1			
12	G	R01 18J 524	DRAIN PLUG		1	1	1	1	1			
13	G	R01 A18 529	DRAIN PAN ASSY		1	1	1	1	1			
14	G	T7W 27J 675	FAN GUARD		1	1	1	1	1			
15	G	R01 18J 110	CASING		3	3	3	3	3			
16	G	R01 E15 114	SIROCCO FAN		1	1	1	1	1			
17	G	R01 31J 303	INSULATOR		1	1						
17	G	R01 40J 303	INSULATOR		3	3						
18	G	T7W E11 300	HEATER ELEMENT	80V 700W	3	3					H1	
19	G	R01 H10 202	PIPE TEMPERATURE THERMISTOR		1	1	1	1	1		TH2	
20	G	R01 H09 202	CONDENSER / EVAPORATOR TEMPERATURE THERMISTOR		1	1	1	1	1		TH5	
	G	R01 J66 480	HEAT EXCHANGER		1	1			1			
21	G	T7W H42 480	HEAT EXCHANGER					1				
	G	T7W H37 480	HEAT EXCHANGER				1					
22	G	T7W 25J 706	THERMAL FUSE	110℃ 16A 250V	1	1					FS1,2	
23	G	R01 E13 700	THERMAL SWITCH	OFF:50℃ ON:35 ℃	1	1					26H	



						Q'ty / se	t		Wiring	Recom-
No.	SHC	Parts No.	Parts Name	Specifications	PCH-P	PCA	A-RP	Remarks (Drawing No.)	Diagram	mended
	Ř				100GAH	100GA	100GA#1	(Brawing No.)	Symbol	Q'ty
1	G	R01 45E 126	PIECE (MOTOR)		1	1	1			
2	G	R01 32J 130	MOTOR LEG		1	1	1			
3	G	R01 19J 220	FAN MOTOR	D10B4P90MS	1	1	1		MF	
4	G	R01 800 116	SHAFT JOINT		1	1	1			
5	G	R01 E19 114	SIROCCO FAN		2	2	2			
6	G	T7W 35J 675	FAN GUARD		1	1	1			
7	G	R01 H08 202	ROOM TEMPERATURE THERMISTOR		1	1	1		TH1	
8	G	R01 30J 100	SHAFT		1	1	1			
9	G	T7W 34J 675	FAN GUARD		2	2	2			
10	G	R01 E02 103	SLEEVE BEARING		1	1	1			
11	G	R01 36J 145	BEARING SUPPORT		1	1	1			
12	G	R01 18J 524	DRAIN PLUG		1	1	1			
13	G	R01 E28 529	DRAIN PAN ASSY		1	1	1			
14	G	T7W 32J 675	FAN GUARD		1	1	1			
15	G	R01 19J 110	CASING		3	3	3			
16	G	R01 E20 114	SIROCCO FAN		1	1	1			
	G	R01 31J 303	INSULATOR		1					
17	G	R01 41J 303	INSULATOR		3					
18	G	T7W E22 300	HEATER ELEMENT	80V 900W	3				H1	
19	G	R01 H10 202	PIPE TEMPERATURE THERMISTOR		1	1	1		TH2	
20	G	R01 H09 202	CONDENSER / EVAPORATOR TEMPERATURE THERMISTOR		1	1	1		TH5	
	G	R01 N09 480	HEAT EXCHANGER		1					
21	G	T7W H43 480	HEAT EXCHANGER			1	1			
22	G	T7W 11G 706	THERMAL FUSE	117℃ 16A 250V	1				FS1,2	
23	G	R01 E13 700	THERMAL SWITCH	୦FF:50 ℃ ON:35 ℃	1				26H	

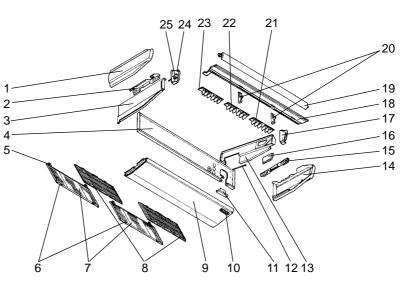
FAN AND HEATER PARTS PCA-RP125GA PCA-RP140GA PCA-RP125GA#1 PCA-RP140GA#1 PCH-P125GAH 5 -PCH-P140GAH 6 -17.18 10[´] 9 12

								Q'ty /	set				
No.	RoHS	Pa	rts No) .	Parts Name	Specifications	PCI	H- P	PCA		Remarks	Diagram	Recom-
	R						125GAH	140GAH	125GA 125GA#1	140GA 140GA#1	(Drawing No.)	Symbol	Q'ty
1	G	R01	30J	100	SHAFT		1	1	1	1			
2	G	R01	33J	130	MOTOR LEG		1	1	1	1			
3	G	R01	20J	220	FAN MOTOR	D10B4P150MS	1	1	1	1		MF	
4	G	R01	45E	126	PIECE (MOTOR)		1	1	1	1			
5	G	R01	E18	114	SIROCCO FAN		1	1	1	1			
6	G	T7W	35J	675	FAN GUARD		1	1	1	1			
7	G	R01	H08	202	ROOM TEMPERATURE THERMISTOR		1	1	1	1		TH1	
8	G	T7W	33J	675	FAN GUARD		1	1	1	1			
9	G	R01	E19	114	SIROCCO FAN		2	2	2	2			
10	G	R01	800	116	SHAFT JOINT		1	1	1	1			
11	G	R01	E29	529	DRAIN PAN ASSY		1	1	1	1			
12	G	T7W	34J	675	FAN GUARD		2	2	2	2			
13	G	R01	E20	114	SIROCCO FAN		1	1	1	1			
14	G	R01	18J	524	DRAIN PLUG		1	1	1	1			
15	G	T7W	36J	675	FAN GUARD		1	1	1	1			
16	G	R01	19J	110	CASING		4	4	4	4			
17	G	R01	E02	103	SLEEVE BEARING		1	1	1	1			
18	G	R01	36J	145	BEARING SUPPORT		1	1	1	1			
10	G	R01	31J	303	INSULATOR		1	1					
19	G	R01	41J	303	INSULATOR		6	6					
20	G	T7W	E12	300	HEATER ELEMENT	80V 1000W	3	3				H1	
21	G	R01	H10	202	PIPE TEMPERATURE THERMISTOR		1	1	1	1		TH2	
22	G	R01	H09	202	CONDENSER / EVAPORATOR TEMPERATURE THERMISTOR		1	1	1	1		TH5	
	G	T7W	H44	480	HEAT EXCHANGER				1				
23	G	T7W	H45	480	HEAT EXCHANGER					1			
23	G	T7W	H46	480	HEAT EXCHANGER		1						
	G	T7W	H47	480	HEAT EXCHANGER			1					
24	G	T7W	25J	706	THERMAL FUSE	110°C 16A 250V	1	1				FS1,2	
25	G	R01	E13	700	THERMAL SWITCH	OFF:50°C ON:35°C	1	1				26H	

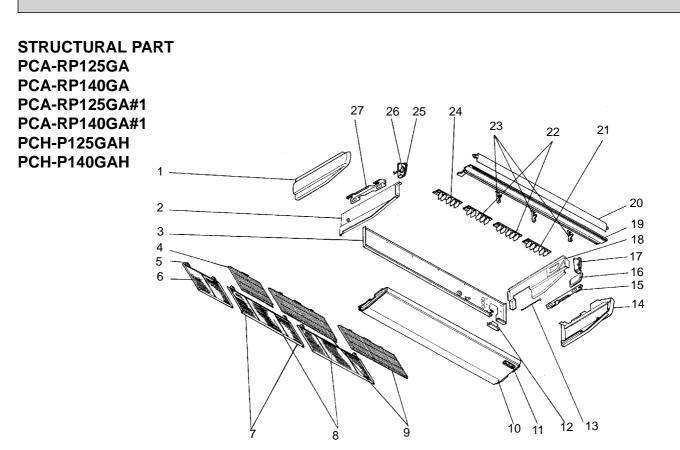


	S				Q'ty/set		Remarks	Wiring	Recom-
No.	RoHS	Parts No.	Parts Name	Specifications	PCA-RP50GA PCH-P50GAH	PCA-RP50GA#1		Diagram Symbol	
1	G	R01 E00 666	S.PLATE-L		1	1			
2	G	R01 A30 500	L.L FILTER		1	1			
3	G	R01 18J 061	GRILLE HINGE		4	4			
4	G	R01 20J 691	GRILLE ASSY		1	1			
5	G	R01 19J 691	GRILLE ASSY		1	1			
6	G	R01 19J 054	GRILLE CATCH		4	4			
7	G	R01 A29 500	L.L FILTER		1	1			
8	G	_	REAR SUPPORT		1	1	(BG02H454K01)		
9	G	R01 31J 669	UNDER PANEL		1	1			
10	G	_	BEAM(GA)		2	2	(BG17H464H08)		
11	G	T7W E02 070	W.BOARD CASE		1	1			
12	G	R01 19J 665	S.PLATE-R		1	1			
13	G	R01 18J 808	RIGHT LEG (R)		1	1			
14	G	R01 19J 668	SERVICE PANEL		1	1			
15	G	R01 18J 661	RIGHT SIDE PANEL		1	1			
16	G	R01 18J 067	RIGHT SIDE BOX		1	1			
17	G	R01 38J 085	G.V ASSY-6R		1	1			
18	G	R01 E02 033	VANE SUPPORT		1	1			
19	G	R01 37J 651	FRONT PANEL		1	1			
20	G	R01 31J 002	AUTO VANE		1	1			
21	G	R01 38J 086	G.V ASSY-6L		1	1			
22	G	R01 A18 676	REAR PANEL		1	1			
23	G	R01 18J 068	LEFT SIDE BOX		1	1			
24	G	R01 E11 223	VANE MOTOR		1	1		MV	
25	G	R01 18J 809	LEFT LEG (L)		1	1			
26	G	R01 18J 662	LEFT SIDE PANEL		1	1			
27	G	R01 18J 523	JOINT SOCKET		1	1			
	G	T7W E01 072	DRAIN HOSE COVER		1				
28	G	R01 18J 072	DRAIN HOSE COVER			1			

STRUCTURAL PART PCA-RP50GA2 PCA-RP50GA2#1 PCA-RP60GA PCA-RP71GA PCA-RP71GA PCA-RP100GA#1 PCA-RP71GA#1 PCA-RP100GA#1 PCH-P60GAH PCH-P71GAH PCH-P100GAH

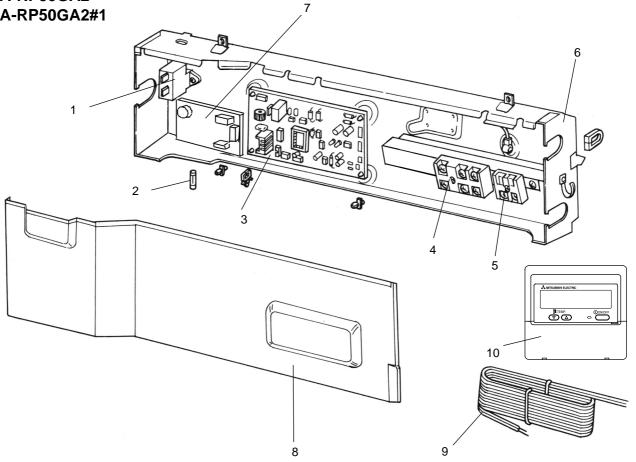


	G									ty/set			_	Wiring	Beeem
No.	RoHS	Par	rts No		Parts Name	Specifi-			PCA-R				Remarks	Wiring	Recom- mended
10.	Ř	1 01	13 110	<i>.</i>	i arto Name	cations		0		/71	10		(Drawing No.)	Symbol	Mended Q'ty
	G	R01	18J	662	LEFT SIDE PANEL		<u>GA2</u>	GA2#1 1	GA/GAH	GA#1	GA/GAH	GA#1			~.,
1	G	R01	36J		LEFT SIDE PANEL		•		•	•	1	1			
2	G	R01	18J		LEFT LEG		1	1	1	1	1	1			
	G	R01	E00		S.PLATE-L		1	1	1	1	-	-			
3	G	R01	E01		S.PLATE-L		-		•	•	1	1			
	G	R01	30J	676	REAR PANEL		1	1	1	1	-	-			
4	G	-	A21	676	REAR PANEL		-	•	•	•	1	1			
5	G	R01	18J	061	GRILLE HINGE		4	4	4	4	4	4			
6	G	R01	19J	054	GRILLE CATCH		4	4	4	4	4	4			
7	G	R01	19J	691	GRILLE ASSY		2	2	2	2	2	2			
8	G	-	A29	500	L.L FILTER		2	2	2	2	2	2			
9	G	R01	30J	669	UNDER PANEL		1	1	1	1	1	1			
10	G	T7W	E02		W.BOARD CASE		1	1	1	1	1	1			
11	G		_	010	REAR SUPPORT		1	1	1	1	1	1	(BG02H454K01)		
12	G		_		BEAM (GA)		2	2	2	2	2	2	(BG17H464H08)		
	G	R01	19J	665	S.PLATE-R		1	1	1	1	_				
13	G	R01	E01		S.PLATE-R		-	•	•	•	1	1			
	G	R01	18J	661	RIGHT SIDE PANEL		1	1	1	1	-	- 1			
14	G	R01	36J	661	RIGHT SIDE PANEL		-	•	•	•	1	1			
15	G	R01	18J	808	RIGHT LEG		1	1	1	1	1	1			
	G	R01	19J	668	SERVICE PANEL		1	1	1	1	-	-			
16	G	R01	20J		SERVICE PANEL		- ·	•	•	-	1	1			
	G	R01	18J	067	RIGHT SIDE BOX		1	1	1	1		-			
17	G	R01	36J	067	RIGHT SIDE BOX		- ·	•	•	-	1	1			
	G	R01		651	FRONT PANEL		1	1	1	1		•			
18	G	R01	38J	651	FRONT PANEL			-	•	-	1	1			
	G	R01	30J		AUTO VANE		1	1	1	1	· ·	•			
19	G	R01			AUTO VANE			•	•	-	1	1			
	G	R01	E02	033	VANE SUPPORT		2	2	2	2	· ·				
20	G	R01		033	VANE SUPPORT		-	_	_	_	2	2			
21	G	R01	38J	085	G.V ASSY-6R		1	1	1	1	1	1			
22	G	R01	38J	087	G.V ASSY-6C		1	1	1	1	1	1			
23	G	R01	38J	086	G.V ASSY-6L		1	1	1	1	1	1			
	G	R01	18J		LEFT SIDE BOX		1	1	1	1	'	-			
24	G	R01	E01	068	LEFT SIDE BOX		- ·	-	•	· ·	1	1			
	G	R01		223	VANE MOTOR		1	1	1	1		•		MV	
25	G	R01	E12	-	VANE MOTOR		- ·	-	•	· ·	1	1		MV	
26	-	R01		-	JOINT SOCKET		1	1	1	1	1	1			
	G	T7W		072			1	·	1	-	1	-			
27	G	R01	18J		DRAIN HOSE COVER			1	•	1		1			
L	5				2. July HODE COVER		1	-		•	1		I		



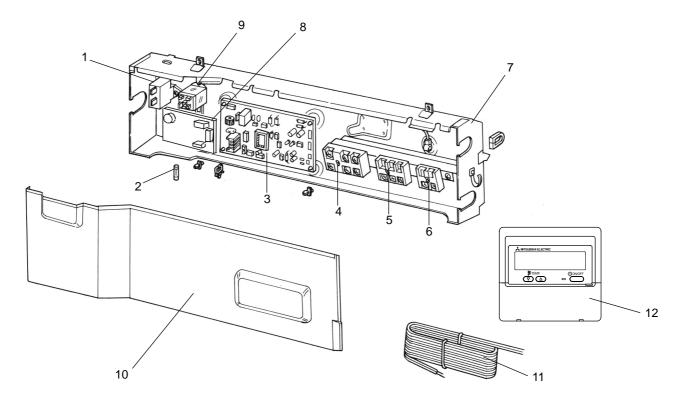
	S					Q'ty	/set	Bemerke	Wiring	Recom-
No.	RoHS	Parts N		Parts Name	Specifications	PCA-RP125/140GA PCH-P125/140GAH	PCA-RP125/140GA#1	Remarks (Drawing No.)	Diagram Symbol	
1	G	R01 36J		LEFT SIDE PANEL		1	1			
2	G	R01 E01	666	S.PLATE-L		1	1			
3	G	R01 A19	676	REAR PANEL		1	1			
4	G	R01 A30	500	L.L FILTER		1	1			
5	G	R01 18J	061	GRILLE HINGE		6	6			
6	G	R01 20J	691	GRILLE ASSY		1	1			
7	G	R01 19J	054	GRILLE CATCH		6	6			
8	G	R01 19J	691	GRILLE ASSY		2	2			
9	G	R01 A29	500	L.L FILTER		2	2			
10	G	R01 32J	669	UNDER PANEL		1	1			
11	G	T7W E02	070	W.BOARD CASE		1	1			
12	G	_		REAR SUPPORT		1	1	(BG02H454K01)		
13	G	_		BEAM (GA)		3	3	(BG17H464H08)		
14	G	R01 36J	661	RIGHT SIDE PANEL		1	1			
15	G	R01 18J	808	RIGHT LEG		1	1			
16	G	R01 20J	668	SERVICE PANEL		1	1			
17	G	R01 36J	067	RIGHT SIDE BOX		1	1			
18	G	R01 E01	665	S.PLATE-R		1	1			
19	G	R01 39J	651	FRONT PANEL		1	1			
20	G	R01 E15	002	AUTO VANE		1	1			
21	G	R01 39J	085	G.V ASSY-5R		1	1			
22	G	R01 39J	087	G.V ASSY-5C		2	2			
23	G	R01 E03	033	VANE SUPPORT		3	3			
24	G	R01 39J	086	G.V ASSY-5L		1	1			
25	G	R01 E01	068	LEFT SIDE BOX		1	1			
26	G	R01 E12	223	VANE MOTOR		1	1		MV	
27	G	R01 18J	809	LEFT LEG		1	1			
28	G	R01 18J	523	JOINT SOCKET		1	1			
	G	T7W E01	072	DRAIN HOSE COVER		1				
29	G	R01 18J	072	DRAIN HOSE COVER			1			

ELECTRICAL PARTS PCA-RP50/60/71/100/125/140GA PCA-RP50/60/71/100/125/140GA#1 PCA-RP50GA2 PCA-RP50GA2#1



	s	_	arts No.							PC/	A-RF)				Remarks	Wiring		
No.	RoHS	Pai	rts No) .	Parts Name	Specifications	50	60/71				60/71	100	125/140		50	(Drawing No.)	Diagram Symbol	
	<u> </u>						GA GA#1 G			GA2	GA2#1								
	G	R01	A15	255	CAPACITOR	3 μF 440V	1				1							С	
1	G	T7W	E13	255	CAPACITOR	4 μF 440V		1	1			1	1		1	1		С	
	G	R01	A14	255	CAPACITOR	6μF 440V				1				1				С	
2	G	R01	E06	239	FUSE	250V 6.3A	1	1	1	1	1	1	1	1	1	1		FUSE	
	G	T7W	E50	310	INDOOR CONTROLLER BOARD		1	1	1	1					1			I.B	
3	G	T7W	E73	310	INDOOR CONTROLLER BOARD						1	1	1	1		1		I.B	
4	G	R01	E20	246	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1	1	1	1	1	1	1		TB4	
5	G	T7W	E33	716	TERMINAL BLOCK	2P(1,2)	1	1	1	1	1	1	1	1	1	1		TB5	
6	G				CONTROL BOX		1	1	1	1	1	1	1	1	1	1	(BG00N015G40)		
7	G	R01	E38	313	POWER BOARD		1	1	1	1	1	1	1	1	1	1		P.B	
	G		—		CONTROL COVER		1				1						(BG02A804G38)		
8	G		_		CONTROL COVER			1		1		1		1	1	1	(BG02A804G39)		
	G		_		CONTROL COVER				1				1				(BG02A804G40)		
9	G	T7W	A01	305	REMOTE CONTROLLER CORD	10m	1	1	1	1	1	1	1	1	1	1			
10	G	T7W	E11	713	REMOTE CONTROLLER	PAR-21MAA	1	1	1	1	1	1	1	1	1	1		R.B	

ELECTRICAL PARTS PCH-P50GAH, PCH-P100GAH PCH-P60GAH, PCH-P125GAH PCH-P71GAH, PCH-P140GAH



	S					Q'ty				Wiring	Recom-
No	OHS	Parts No.	Parts Name	Specifications		PCI		125/140	Remarks	Diagram	mended
	Ř			•	50	50 60/71 100 125/140 (Drawing No.) GAH				Symbol	Q'ty
	G	R01 A15 255	CAPACITOR	3 μF 440V	1		~			С	
1	G	T7W E13 255	CAPACITOR	4 μF 440 V		1	1			С	
	G	R01 A14 255	CAPACITOR	6μF 440V				1		С	
2	G	R01 E06 239	FUSE	250V 6.3A	1	1	1	1		FUSE	
3	G	T7W E50 310	INDOOR CONTROLLER BOARD		1	1	1	1		I.B	
4	G	T7W E32 716	TERMINAL BLOCK	3P (L,N, 🕀)	1	1	1	1		TB2	
5	G	R01 E20 246	TERMINAL BLOCK	3P (S1,S2,S3)	1	1	1	1		TB4	
6	G	T7W E33 716	TERMINAL BLOCK	2P (1,2)	1	1	1	1		TB5	
7	G	—	CONTROL BOX		1	1	1	1	(BG00N015G42)		
8	G	R01 E38 313	POWER BOARD		1	1	1	1		P.B	
9	G	R01 E03 215	RELAY	JC-1A DC12V	1	1	1	1		88H	
	G	—	CONTROL COVER		1				(BG02A804G38)		
10	G	—	CONTROL COVER			1		1	(BG02A804G39)		
	G	—	CONTROL COVER				1		(BG02A804G40)		
11	G	T7W A01 305	REMOTE CONTROLLER CORD	10m	1	1	1	1			
12	G	T7W E11 713	REMOTE CONTROLLER	PAR-21MAA	1	1	1	1		R.B	

Mr.SUM™



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