

TECHNICAL & SERVICE MANUAL

Series PLA Ceiling Cassettes R410A

**Indoor unit
[Model names]**

PLA-RP3AA

PLA-RP4AA

PLA-RP5AA

PLA-RP6AA

[Service Ref.]

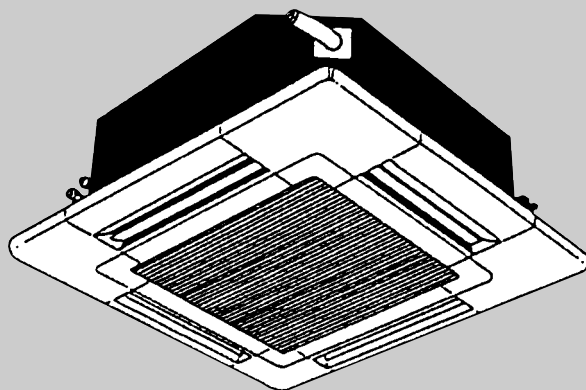
PLA-RP3AA.UK

PLA-RP4AA.UK

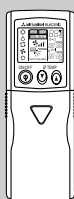
PLA-RP5AA.UK

PLA-RP6AA.UK

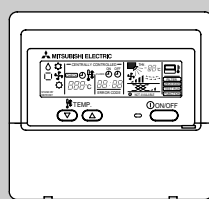
- Refer to the OCT04 as for control relation. This manual does not cover outdoor units. When serving them, please refer to the service manual No.OC294 and this manual in a set.



INDOOR UNIT



WIRELESS REMOTE
CONTROLLER



WIRED REMOTE
CONTROLLER

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CAUTIONS RELATED TO NEW REFRIGERANT

<Cautions for units utilizing refrigerant R410A>

Use new refrigerant pipes.

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

- For RP4, 5 and 6, 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.

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.

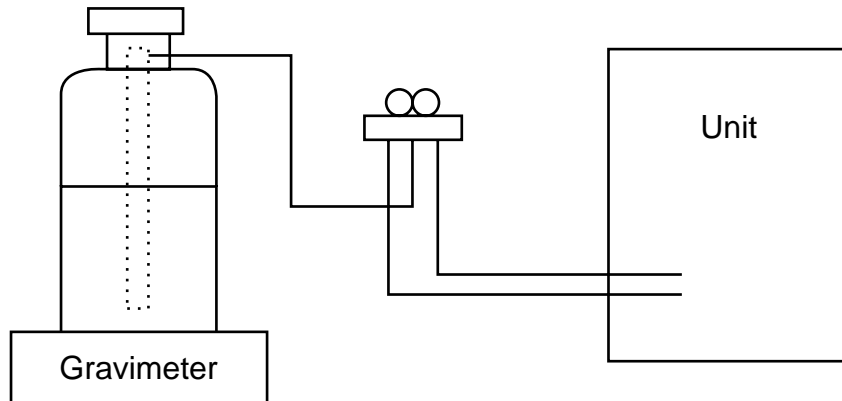
[1] Cautions for service

- (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.)



[3] Service tools

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

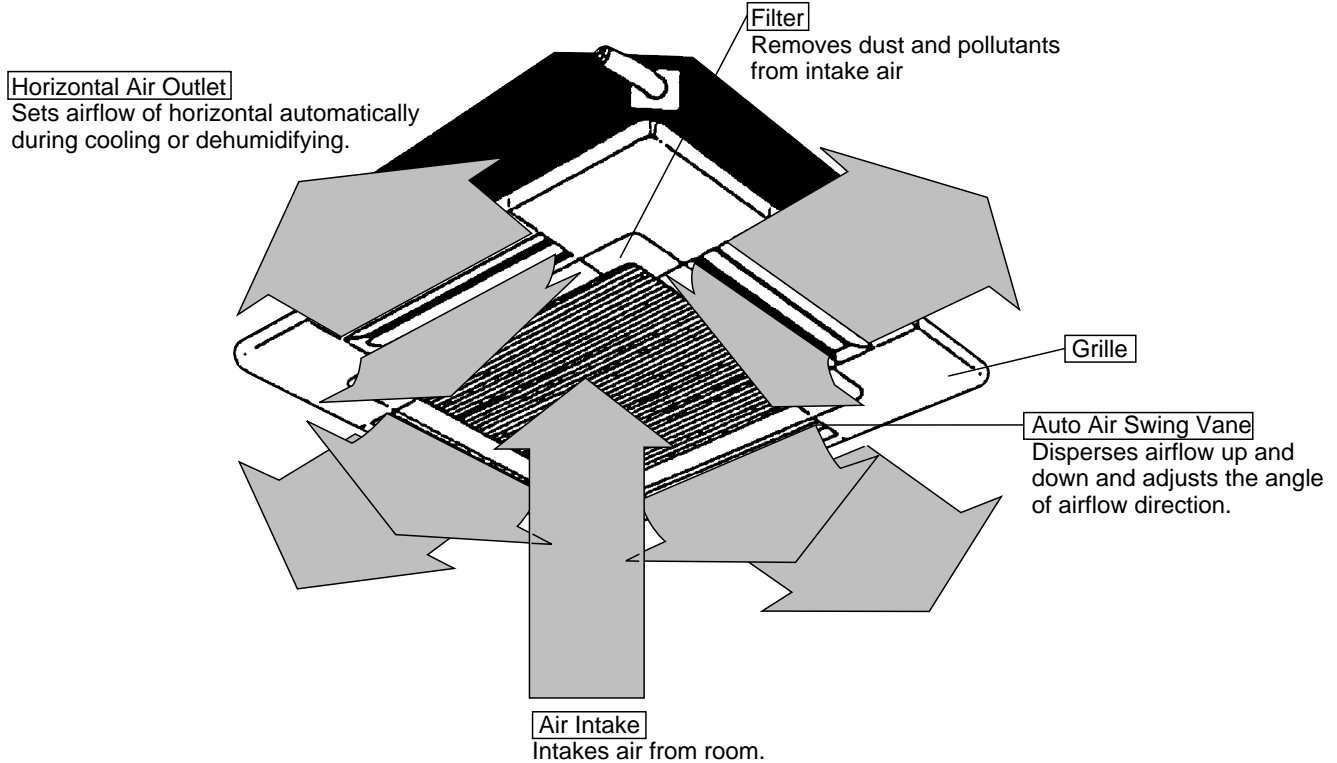
No.		Specifications
①	Gauge manifold	·Only for R410A
		·Use the existing fitting specifications. (UNF1/2)
		·Use high-tension side pressure of 5.3MPa-G or over.
②	Charge hose	·Only for R410A
		·Use pressure performance of 5.09MPa-G or over.
③	Electronic scale	—
④	Gas leak detector	·Use the detector for 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	—

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PART NAMES AND FUNCTIONS

● Indoor (Main) Unit

PLA-RP3AA.UK, PLA-RP4AA.UK, PLA-RP5AA.UK, PLA-RP6AA.UK

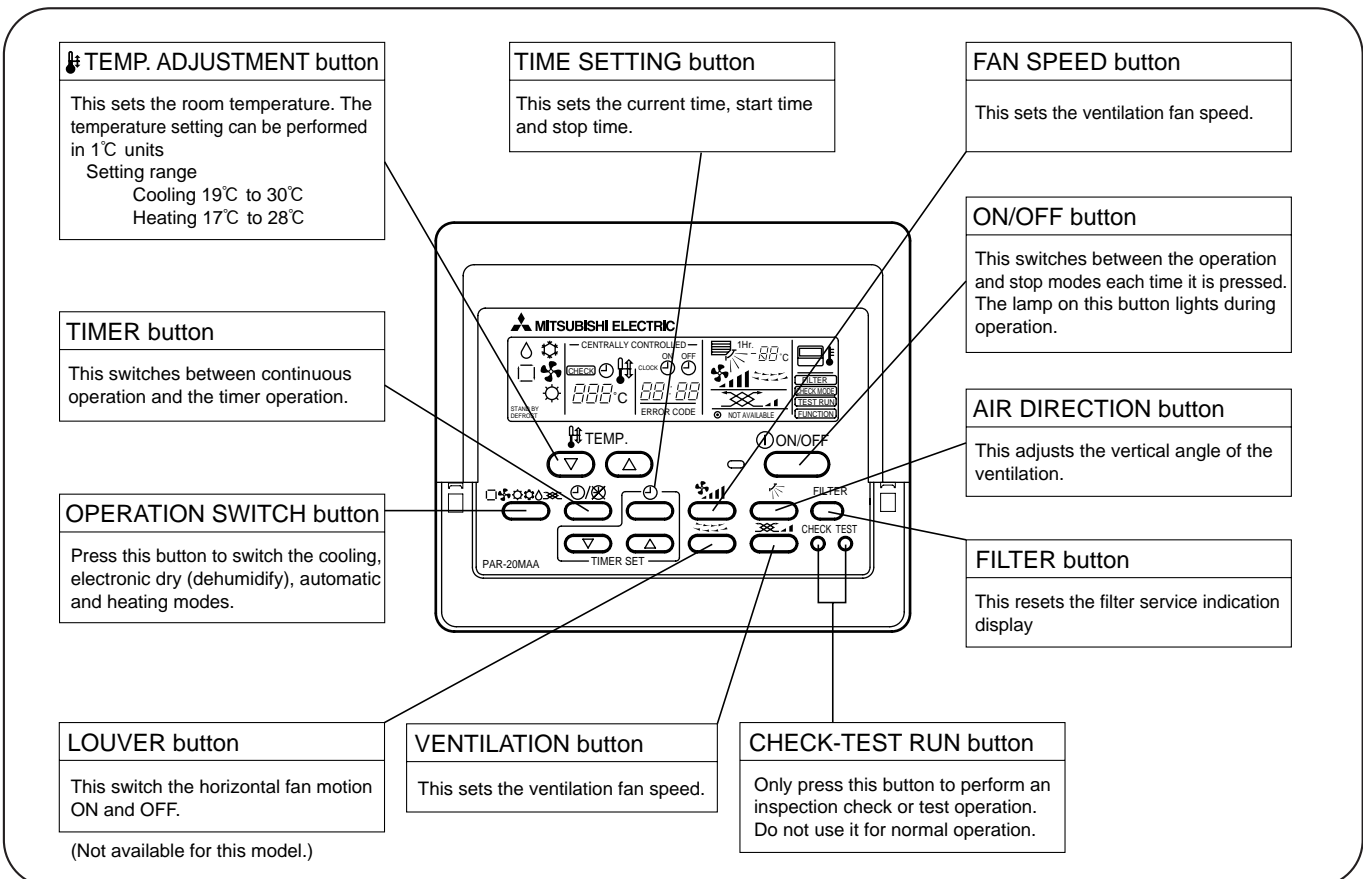


● Wired remote controller

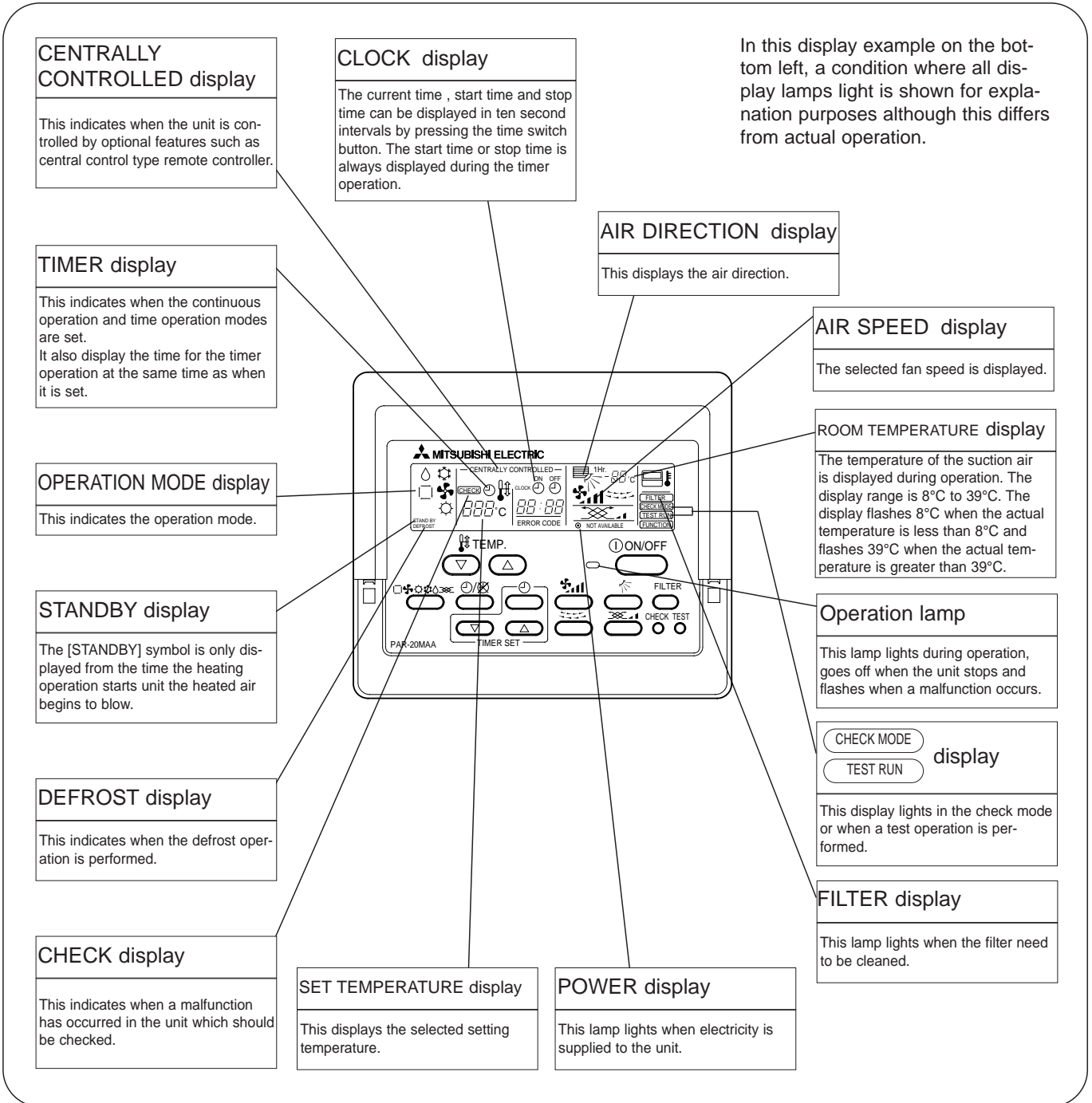
On the controls are set, the same operation mode can be repeated by simply pressing the ON/OFF button.

PLA-RP3AA.UK, PLA-RP4AA.UK, PLA-RP5AA.UK, PLA-RP6AA.UK


● Operation buttons



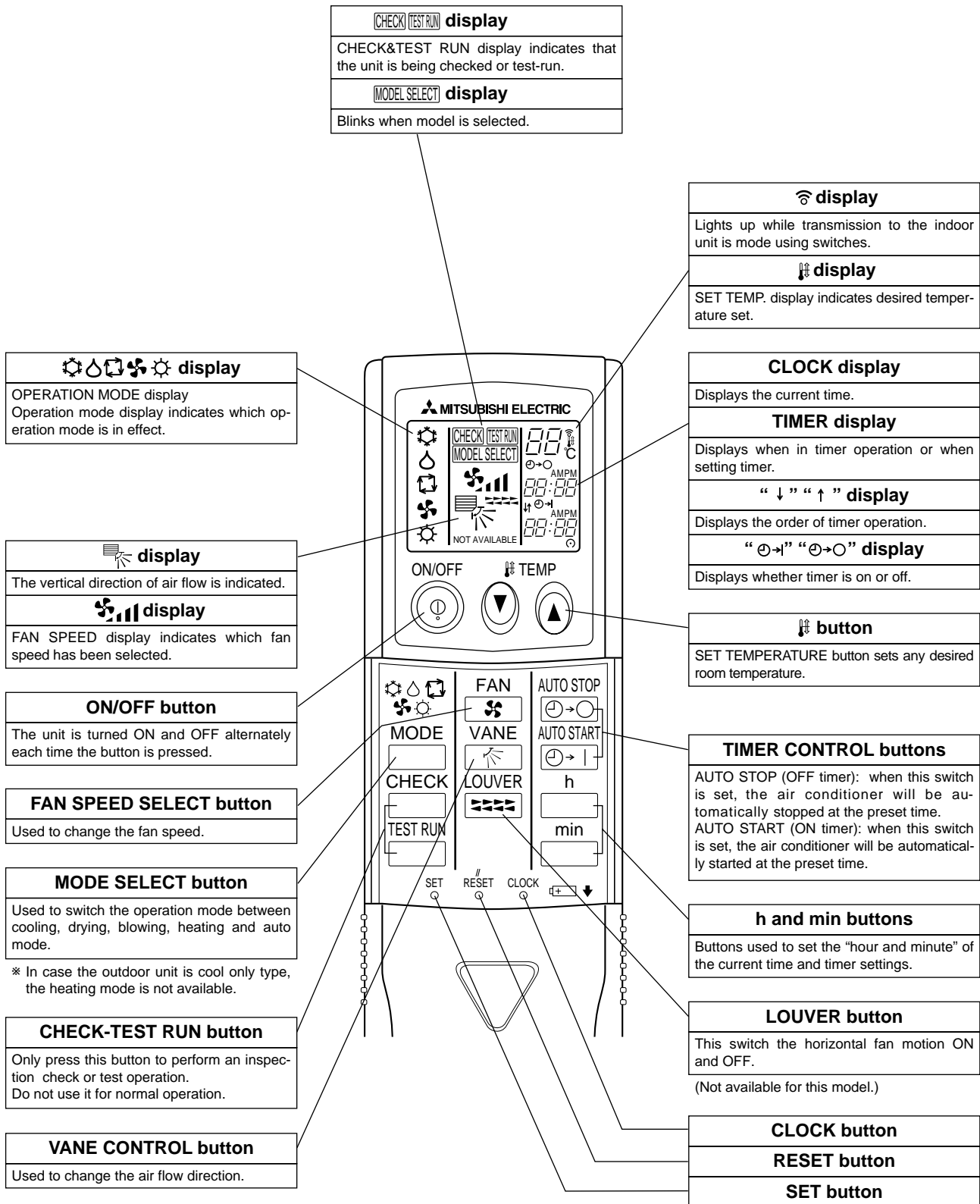
● Display



Caution

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

● **Wireless remote controller**
PLA-RP3AA.UK, PLA-RP4AA.UK, PLA-RP5AA.UK, PLA-RP6AA.UK



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SPECIFICATIONS

Item		Service Ref.	PLA-RP3AA.UK			
Function			Cooling	Heating		
Capacity		Btu/h	24,200	27,300		
		W	7,100 (3,300~8,100)	8,000 (3,500~10,200)		
Total input		kW	1.97	2.34		
			PLA-RP3AA.UK			
Indoor unit	Service Ref.		PLA-RP3AA.UK			
	Power supply (phase, cycle, voltage)		Single phase, 50Hz, 220-230-240V			
	Input		kW	0.16	0.16	
	Running current		A	0.79	0.79	
	Starting current		A	1.0	1.0	
	External finish (Panel)		Munsell 0.70Y 8.59/0.97			
	Heat exchanger		Plate fin coil			
	Fan	Fan (drive) × No.		Turbo fan (direct) ×1		
		Fan motor output		0.070		
		Airflow (Lo-Mi2-Mi1-Hi)		m ³ / min (CFM)		15-16-18-20 (530-565-635-705)
		External static pressure		Pa (mmAq)		0 (direct blow)
	Booster heater		kW	—		
	Operation control & Thermostat		Remote controller & built-in			
	Sound level (Lo-Mi2-Mi1-Hi)		dB	28-30-32-34		
	Unit drain pipe I.D.		mm (in.)	32 (1-1/4)		
Dimensions	W	mm (in.)	UNIT : 840 (33-1/16) PANEL: 950 (37-3/8)			
	D	mm (in.)	UNIT : 840 (33-1/16) PANEL: 950 (37-3/8)			
	H	mm (in.)	UNIT : 258 (10-1/2) PANEL: 30 (1-3/16)			
Weight		kg (lbs.)	UNIT : 24 (53) PANEL: 5 (11)			
Outdoor unit	Service Ref.		PUHZ-RP3VHA			
	Power supply (phase, cycle, voltage)		Single phase, 50Hz, 220-230-240V			
	Running current		A	8.04	9.74	
	External finish		Munsell 3Y 7.8/1.1			
	Refrigerant control		Linear expansion valve			
	Compressor		Hermetic			
	Model		TNB220FMBH			
	Motor output		kW	1.6		
	Starter type		Line start			
	Protection devices		HP switch, Discharge thermo.			
	Heat exchanger		Plate fin coil			
	Fan	Fan (drive) × No.		Propeller (direct) ×1		
		Fan motor output		0.060		
		Airflow		m ³ / min (CFM)		55 (1,940)
	Crankcase heater		W	—		
	Defrost method		Reverse cycle			
	Sound level	Cooling	dB	47		
		Heating	dB	48		
Dimensions	W	mm (in.)	950 (37-3/8)			
	D	mm (in.)	330+30 (13+1-3/16)			
	H	mm (in.)	943 (37-1/8)			
Weight		kg (lbs.)	75 (165)			
Refrigerant piping	Refrigerant		R410A			
	Charge		kg (lbs.)	3.5 (7.7)		
	Oil (Model)		L	0.87 (NEO22)		
	Pipe size O.D.	Liquid	mm (in.)	9.52 (3/8)		
		Gas	mm (in.)	15.88 (5/8)		
	Connection method	Indoor side	Flared			
		Outdoor side	Flared			
	Between the indoor & outdoor units	Height difference	Max. 30m			
Piping length		Max. 50m				

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -11°C, W.B. -12°C

3. Above data based on indicated voltage
Indoor unit Single phase 230V 50Hz
Outdoor unit Single phase 230V 50Hz



Item		Service Ref.	PLA-RP4AA.UK		
Function			Cooling	Heating	
Capacity		Btu/h	34,100	38,200	
		W	10,000 (5,000~11,400)	11,200 (5,600~14,000)	
Total input		kW	3.03	3.39	
Indoor unit	Service Ref.		PLA-RP4AA.UK		
	Power supply (phase, cycle, voltage)		Single phase, 50Hz, 220-230-240V		
	Input		kW	0.25	0.25
	Running current		A	1.25	1.25
	Starting current		A	2.0	2.0
	External finish (Panel)		Munsell 0.70Y 8.59/0.97		
	Heat exchanger		Plate fin coil		
	Fan (drive) × No.		Turbo fan (direct) ×1		
	Fan motor output		kW	0.120	
	Airflow (Lo-Mi2-Mi1-Hi)		m ³ / min (CFM)	20-23-26-28 (705-810-920-990)	
	External static pressure		Pa (mmAq)	0 (direct blow)	
	Booster heater		kW	—	
	Operation control & Thermostat		Remote controller & built-in		
	Sound level (Lo-Mi2-Mi1-Hi)		dB	33-36-39-41	
	Unit drain pipe I.D.		mm (in.)	32 (1-1/4)	
Dimensions		W	mm (in.) UNIT : 840 (33-1/16) PANEL : 950 (37-3/8)		
		D	mm (in.) UNIT : 840 (33-1/16) PANEL : 950 (37-3/8)		
		H	mm (in.) UNIT : 298 (11-3/4) PANEL : 30 (1-3/16)		
Weight		kg (lbs.)	UNIT : 30 (66) PANEL : 5 (11)		
Outdoor unit	Service Ref.		PUHZ-RP4VHA		
	Power supply (phase, cycle, voltage)		Single phase, 50Hz, 220-230-240V		
	Running current		A	12.33	13.94
	External finish		Munsell 3Y 7.8/1.1		
	Refrigerant control		Linear expansion valve		
	Compressor		Hermetic		
	Model		ANV33FDAMT		
	Motor output		kW	1.9	
	Starter type		Line start		
	Protection devices		HP switch, LP switch, Discharge thermo.		
	Heat exchanger		Plate fin coil		
	Fan (drive) × No.		Propeller (direct) ×2		
	Fan motor output		kW	0.060+0.060	
	Airflow		m ³ / min (CFM)	100 (3,530)	
	Crankcase heater		W	—	
Defrost method		Reverse cycle			
Sound level		Cooling	dB 49		
		Heating	dB 51		
Dimensions		W	mm (in.) 950 (37-3/8)		
		D	mm (in.) 330+30 (13+1-3/16)		
		H	mm (in.) 1,350 (53-1/8)		
Weight		kg (lbs.)	121 (267)		
Refrigerant piping	Refrigerant		R410A		
	Charge		kg (lbs.)	5.5 (12.1)	
	Oil (Model)		L	1.4 (MEL56)	
	Pipe size O.D.		Liquid	mm (in.) 9.52 (3/8)	
			Gas	mm (in.) 15.88 (5/8)	
	Connection method		Indoor side	Flared	
			Outdoor side	Flared	
Between the indoor & outdoor units		Height difference	Max. 30m		
		Piping length	Max. 75m		

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -11°C, W.B. -12°C

3. Above data based on indicated voltage
Indoor unit Single phase 230V 50Hz
Outdoor unit Single phase 230V 50Hz



Item		Service Ref.	PLA-RP5AA.UK	
Function			Cooling	Heating
Capacity		Btu/h	42,700	47,800
		W	12,500 (6,000~14,000)	14,000 (6,000~16,000)
Total input		kW	3.89	4.27
			PLA-RP5AA.UK	
Indoor unit	Service Ref.		PLA-RP5AA.UK	
	Power supply (phase, cycle, voltage)		Single phase, 50Hz, 220-230-240V	
	Input		kW	0.33
	Running current		A	1.64
	Starting current		A	2.0
	External finish (Panel)		Munsell 0.70Y 8.59/0.97	
	Heat exchanger		Plate fin coil	
	Fan (drive) × No.		Turbo fan (direct) ×1	
	Fan motor output		kW	0.120
	Airflow (Lo-Mi2-Mi1-Hi)		m ³ / min (CFM)	22-25-28-30 (775-880-990-1,060)
	External static pressure		Pa (mmAq)	0 (direct blow)
	Booster heater		kW	—
	Operation control & Thermostat		Remote controller & built-in	
	Sound level (Lo-Mi2-Mi1-Hi)		dB	
	Unit drain pipe I.D.		mm (in.)	32 (1-1/4)
Dimensions	W	mm (in.)	UNIT : 840 (33-1/16) PANEL : 950 (37-3/8)	
	D	mm (in.)	UNIT : 840 (33-1/16) PANEL : 950 (37-3/8)	
	H	mm (in.)	UNIT : 298 (11-3/4) PANEL : 30 (1-3/16)	
Weight		kg (lbs.)	UNIT : 32 (71) PANEL : 5 (11)	
			PUHZ-RP5VHA	
Outdoor unit	Service Ref.		PUHZ-RP5VHA	
	Power supply (phase, cycle, voltage)		Single phase, 50Hz, 220-230-240V	
	Running current		A	15.80
	External finish		Munsell 3Y 7.8/1.1	
	Refrigerant control		Linear expansion valve	
	Compressor		Hermetic	
	Model		ANV33FDAMT	
	Motor output		kW	2.4
	Starter type		Line start	
	Protection devices		HP switch, LP switch, Discharge thermo.	
	Heat exchanger		Plate fin coil	
	Fan (drive) × No.		Propeller (direct) ×2	
	Fan motor output		kW	0.060+0.060
	Airflow		m ³ / min (CFM)	100 (3,530)
	Crankcase heater		W	—
Defrost method		Reverse cycle		
Sound level	Cooling	dB	50	
	Heating	dB	52	
Dimensions	W	mm (in.)	950 (37-3/8)	
	D	mm (in.)	330+30 (13+1-3/16)	
	H	mm (in.)	1,350 (53-1/8)	
Weight		kg (lbs.)	121 (267)	
Refrigerant piping	Refrigerant		R410A	
	Charge		kg (lbs.)	5.5 (12.1)
	Oil (Model)		L	1.4 (MEL56)
	Pipe size O.D.	Liquid	mm (in.)	9.52 (3/8)
		Gas	mm (in.)	15.88 (5/8)
	Connection method	Indoor side	Flared	
		Outdoor side	Flared	
	Between the indoor & outdoor units	Height difference	Max. 30m	
Piping length		Max. 75m		

NOTE: 1. Rating conditions (ISO T1)
Cooling : Indoor: D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor: D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating : Indoor: D.B. 20°C (68°F) Outdoor: D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -11°C, W.B. -12°C

3. Above data based on indicated voltage
Indoor unit Single phase 230V 50Hz
Outdoor unit Single phase 230V 50Hz

Item		Service Ref.	PLA-RP6AA.UK	
Function			Cooling	Heating
Capacity		Btu/h	47,800	54,600
		W	14,000 (6,200~15,300)	16,000 (6,200~18,000)
Total input		kW	4.99	4.91
Service Ref.			PLA-RP6AA.UK	
Power supply (phase, cycle, voltage)			Single phase, 50Hz, 220-230-240V	
Input		kW	0.33	0.33
Running current		A	1.64	1.64
Starting current		A	2.0	2.0
External finish (Panel)			Munsell 0.70Y 8.59/0.97	
Heat exchanger			Plate fin coil	
Indoor unit	Fan (drive) × No.		Turbo fan (direct) ×1	
	Fan motor output		0.120	
	Airflow (Lo-Mi2-Mi1-Hi)		m ³ / min (CFM) 22-25-28-30 (775-880-990-1,060)	
	External static pressure		Pa (mmAq) 0 (direct blow)	
Booster heater		kW	—	
Operation control & Thermostat			Remote controller & built-in	
Sound level (Lo-Mi2-Mi1-Hi)		dB	37-40-43-45	
Unit drain pipe I.D.		mm (in.)	32 (1-1/4)	
Dimensions	W	mm (in.)	UNIT : 840 (33-1/16) PANEL : 950 (37-3/8)	
	D	mm (in.)	UNIT : 840 (33-1/16) PANEL : 950 (37-3/8)	
	H	mm (in.)	UNIT : 298 (11-3/4) PANEL : 30 (1-3/16)	
Weight		kg (lbs.)	UNIT : 32 (71) PANEL : 5 (11)	
Service Ref.			PUHZ-RP6VHA	
Power supply (phase, cycle, voltage)			Single phase, 50Hz, 220-230-240V	
Running current		A	20.73	20.37
External finish			Munsell 3Y 7.8/1.1	
Refrigerant control			Linear expansion valve	
Compressor			Hermetic	
Model			ANV33FDAMT	
Motor output		kW	2.9	
Starter type			Line start	
Protection devices			HP switch, LP switch, Discharge thermo.	
Heat exchanger			Plate fin coil	
Outdoor unit	Fan (drive) × No.		Propeller (direct) ×2	
	Fan motor output		0.060+0.060	
	Airflow		m ³ / min (CFM) 100 (3,530)	
Crankcase heater		W	—	
Defrost method			Reverse cycle	
Sound level	Cooling	dB	50	
	Heating	dB	52	
Dimensions	W	mm (in.)	950 (37-3/8)	
	D	mm (in.)	330+30 (13+1-3/16)	
	H	mm (in.)	1,350 (53-1/8)	
Weight		kg (lbs.)	121 (267)	
Refrigerant piping	Refrigerant		R410A	
	Charge		kg (lbs.)	5.5 (12.1)
	Oil (Model)		L	1.4 (MEL56)
	Pipe size O.D.	Liquid	mm (in.)	9.52 (3/8)
		Gas	mm (in.)	15.88 (5/8)
	Connection method	Indoor side		Flared
		Outdoor side		Flared
Between the indoor & outdoor units	Height difference		Max. 30m	
	Piping length		Max. 75m	

NOTE: 1. Rating conditions (ISO T1)
Cooling : Indoor: D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor: D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating : Indoor: D.B. 20°C (68°F) Outdoor: D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -11°C, W.B. -12°C

3. Above data based on indicated voltage
Indoor unit Single phase 230V 50Hz
Outdoor unit Single phase 230V 50Hz

4

DATA

4-1. PERFORMANCE DATA

4-1-1. COOLING CAPACITY (1)

PLA-RP3AA.UK / PUHZ-RP3VHA

(230V)

Indoor intake air D.B.(°C)	Indoor intake air W.B.(°C)	Outdoor intake air D.B.(°C)											
		20				25				30			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	7,029	4,499	0.64	1.58	6,816	4,362	0.64	1.66	6,603	4,226	0.64	1.76
20	18	7,526	3,914	0.52	1.61	7,313	3,803	0.52	1.69	7,065	3,674	0.52	1.81
20	20	8,094	3,238	0.40	1.65	7,917	3,167	0.40	1.73	7,704	3,081	0.40	1.85
22	16	7,029	5,061	0.72	1.58	6,816	4,908	0.72	1.66	6,603	4,754	0.72	1.76
22	18	7,526	4,516	0.60	1.61	7,313	4,388	0.60	1.69	7,065	4,239	0.60	1.81
22	20	8,094	3,885	0.48	1.65	7,917	3,800	0.48	1.73	7,704	3,698	0.48	1.85
24	16	7,029	5,623	0.80	1.58	6,816	5,453	0.80	1.66	6,603	5,282	0.80	1.76
24	18	7,526	5,118	0.68	1.61	7,313	4,973	0.68	1.69	7,065	4,804	0.68	1.81
24	20	8,094	4,533	0.56	1.65	7,917	4,433	0.56	1.73	7,704	4,314	0.56	1.85
24	22	8,627	3,796	0.44	1.69	8,449	3,718	0.44	1.79	8,236	3,624	0.44	1.91
26	16	7,029	6,186	0.88	1.58	6,816	5,998	0.88	1.66	6,603	5,811	0.88	1.76
26	18	7,526	5,720	0.76	1.61	7,313	5,558	0.76	1.69	7,065	5,369	0.76	1.81
26	20	8,094	5,180	0.64	1.65	7,917	5,067	0.64	1.73	7,704	4,930	0.64	1.85
26	22	8,627	4,486	0.52	1.69	8,449	4,393	0.52	1.79	8,236	4,283	0.52	1.91
27	16	7,029	6,467	0.92	1.58	6,816	6,271	0.92	1.66	6,603	6,075	0.92	1.76
27	18	7,526	6,021	0.80	1.61	7,313	5,850	0.80	1.69	7,065	5,652	0.80	1.81
27	20	8,094	5,504	0.68	1.65	7,917	5,383	0.68	1.73	7,704	5,238	0.68	1.85
27	22	8,627	4,831	0.56	1.69	8,449	4,731	0.56	1.79	8,236	4,612	0.56	1.91
28	16	7,029	6,748	0.96	1.58	6,816	6,543	0.96	1.66	6,603	6,339	0.96	1.76
28	18	7,526	6,322	0.84	1.61	7,313	6,143	0.84	1.69	7,065	5,934	0.84	1.81
28	20	8,094	5,828	0.72	1.65	7,917	5,700	0.72	1.73	7,704	5,547	0.72	1.85
28	22	8,627	5,176	0.60	1.69	8,449	5,069	0.60	1.79	8,236	4,942	0.60	1.91
30	16	7,029	7,029	1.00	1.58	6,816	6,816	1.00	1.66	6,603	6,603	1.00	1.76
30	18	7,526	6,924	0.92	1.61	7,313	6,728	0.92	1.69	7,065	6,499	0.92	1.81
30	20	8,094	6,475	0.80	1.65	7,917	6,333	0.80	1.73	7,704	6,163	0.80	1.85
30	22	8,627	5,866	0.68	1.69	8,449	5,745	0.68	1.79	8,236	5,600	0.68	1.91
32	16	7,029	7,029	1.00	1.58	6,816	6,816	1.00	1.66	6,603	6,603	1.00	1.76
32	18	7,526	7,526	1.00	1.61	7,313	7,313	1.00	1.69	7,065	7,065	1.00	1.81
32	20	8,094	7,123	0.88	1.65	7,917	6,967	0.88	1.73	7,704	6,779	0.88	1.85
32	22	8,627	6,556	0.76	1.69	8,449	6,421	0.76	1.79	8,236	6,259	0.76	1.91
34	16	7,029	7,029	1.00	1.58	6,816	6,816	1.00	1.66	6,603	6,603	1.00	1.76
34	18	7,526	7,526	1.00	1.61	7,313	7,313	1.00	1.69	7,065	7,065	1.00	1.81
34	20	8,094	7,770	0.96	1.65	7,917	7,600	0.96	1.73	7,704	7,395	0.96	1.85
34	22	8,627	7,246	0.84	1.69	8,449	7,097	0.84	1.79	8,236	6,918	0.84	1.91

NOTE: CA: Capacity (W) SHC: Sensible heat capacity (W)
P.C.: Power consumption (kW) SHF: Sensible heat factor

**COOLING CAPACITY (2)
PLA-RP3AA.UK / PUHZ-RP3VHA**

(230V)

Indoor intake air D.B.(°C)	Indoor intake air W.B.(°C)	Outdoor intake air D.B.(°C)											
		35				40				45			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	6,319	4,044	0.64	1.89	6,035	3,862	0.64	2.03	5,751	3,681	0.64	2.20
20	18	6,816	3,544	0.52	1.94	6,603	3,434	0.52	2.09	6,177	3,212	0.52	2.25
20	20	7,384	2,954	0.40	1.99	7,100	2,840	0.40	2.13	6,674	2,670	0.40	2.29
22	16	6,319	4,550	0.72	1.89	6,035	4,345	0.72	2.03	5,751	4,141	0.72	2.20
22	18	6,816	4,090	0.60	1.94	6,603	3,962	0.60	2.09	6,177	3,706	0.60	2.25
22	20	7,384	3,544	0.48	1.99	7,100	3,408	0.48	2.13	6,674	3,204	0.48	2.29
24	16	6,319	5,055	0.80	1.89	6,035	4,828	0.80	2.03	5,751	4,601	0.80	2.20
24	18	6,816	4,635	0.68	1.94	6,603	4,490	0.68	2.09	6,177	4,200	0.68	2.25
24	20	7,384	4,135	0.56	1.99	7,100	3,976	0.56	2.13	6,674	3,737	0.56	2.29
24	22	7,952	3,499	0.44	2.03	7,668	3,374	0.44	2.19	7,242	3,186	0.44	2.32
26	16	6,319	5,561	0.88	1.89	6,035	5,311	0.88	2.03	5,751	5,061	0.88	2.20
26	18	6,816	5,180	0.76	1.94	6,603	5,018	0.76	2.09	6,177	4,695	0.76	2.25
26	20	7,384	4,726	0.64	1.99	7,100	4,544	0.64	2.13	6,674	4,271	0.64	2.29
26	22	7,952	4,135	0.52	2.03	7,668	3,987	0.52	2.19	7,242	3,766	0.52	2.32
27	16	6,319	5,813	0.92	1.89	6,035	5,552	0.92	2.03	5,751	5,291	0.92	2.20
27	18	6,816	5,453	0.80	1.94	6,603	5,282	0.80	2.09	6,177	4,942	0.80	2.25
27	20	7,384	5,021	0.68	1.99	7,100	4,828	0.68	2.13	6,674	4,538	0.68	2.29
27	22	7,952	4,453	0.56	2.03	7,668	4,294	0.56	2.19	7,242	4,056	0.56	2.32
28	16	6,319	6,066	0.96	1.89	6,035	5,794	0.96	2.03	5,751	5,521	0.96	2.20
28	18	6,816	5,725	0.84	1.94	6,603	5,547	0.84	2.09	6,177	5,189	0.84	2.25
28	20	7,384	5,316	0.72	1.99	7,100	5,112	0.72	2.13	6,674	4,805	0.72	2.29
28	22	7,952	4,771	0.60	2.03	7,668	4,601	0.60	2.19	7,242	4,345	0.60	2.32
30	16	6,319	6,319	1.00	1.89	6,035	6,035	1.00	2.03	5,751	5,751	1.00	2.20
30	18	6,816	6,271	0.92	1.94	6,603	6,075	0.92	2.09	6,177	5,683	0.92	2.25
30	20	7,384	5,907	0.80	1.99	7,100	5,680	0.80	2.13	6,674	5,339	0.80	2.29
30	22	7,952	5,407	0.68	2.03	7,668	5,214	0.68	2.19	7,242	4,925	0.68	2.32
32	16	6,319	6,319	1.00	1.89	6,035	6,035	1.00	2.03	5,751	5,751	1.00	2.20
32	18	6,816	6,816	1.00	1.94	6,603	6,603	1.00	2.09	6,177	6,177	1.00	2.25
32	20	7,384	6,498	0.88	1.99	7,100	6,248	0.88	2.13	6,674	5,873	0.88	2.29
32	22	7,952	6,044	0.76	2.03	7,668	5,828	0.76	2.19	7,242	5,504	0.76	2.32
34	16	6,319	6,319	1.00	1.89	6,035	6,035	1.00	2.03	5,751	5,751	1.00	2.20
34	18	6,816	6,816	1.00	1.94	6,603	6,603	1.00	2.09	6,177	6,177	1.00	2.25
34	20	7,384	7,089	0.96	1.99	7,100	6,816	0.96	2.13	6,674	6,407	0.96	2.29
34	22	7,952	6,680	0.84	2.03	7,668	6,441	0.84	2.19	7,242	6,083	0.84	2.32

NOTE: CA: Capacity (W) SHC: Sensible heat capacity (W)
P.C.: Power consumption (kW) SHF: Sensible heat factor

**COOLING CAPACITY (3)
PLA-RP4AA.UK / PUHZ-RP4VHA**

(230V)

Indoor intake air D.B.(°C)	Indoor intake air W.B.(°C)	Outdoor intake air D.B.(°C)											
		20				25				30			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	9,900	6,435	0.65	2.42	9,600	6,240	0.65	2.56	9,300	6,045	0.65	2.71
20	18	10,600	5,618	0.53	2.47	10,300	5,459	0.53	2.61	9,950	5,274	0.53	2.79
20	20	11,400	4,674	0.41	2.55	11,150	4,572	0.41	2.67	10,850	4,449	0.41	2.85
22	16	9,900	7,227	0.73	2.42	9,600	7,008	0.73	2.56	9,300	6,789	0.73	2.71
22	18	10,600	6,466	0.61	2.47	10,300	6,283	0.61	2.61	9,950	6,070	0.61	2.79
22	20	11,400	5,586	0.49	2.55	11,150	5,464	0.49	2.67	10,850	5,317	0.49	2.85
24	16	9,900	8,019	0.81	2.42	9,600	7,776	0.81	2.56	9,300	7,533	0.81	2.71
24	18	10,600	7,314	0.69	2.47	10,300	7,107	0.69	2.61	9,950	6,866	0.69	2.79
24	20	11,400	6,498	0.57	2.55	11,150	6,356	0.57	2.67	10,850	6,185	0.57	2.85
24	22	12,150	5,468	0.45	2.61	11,900	5,355	0.45	2.76	11,600	5,220	0.45	2.94
26	16	9,900	8,811	0.89	2.42	9,600	8,544	0.89	2.56	9,300	8,277	0.89	2.71
26	18	10,600	8,162	0.77	2.47	10,300	7,931	0.77	2.61	9,950	7,662	0.77	2.79
26	20	11,400	7,410	0.65	2.55	11,150	7,248	0.65	2.67	10,850	7,053	0.65	2.85
26	22	12,150	6,440	0.53	2.61	11,900	6,307	0.53	2.76	11,600	6,148	0.53	2.94
27	16	9,900	9,207	0.93	2.42	9,600	8,928	0.93	2.56	9,300	8,649	0.93	2.71
27	18	10,600	8,586	0.81	2.47	10,300	8,343	0.81	2.61	9,950	8,060	0.81	2.79
27	20	11,400	7,866	0.69	2.55	11,150	7,694	0.69	2.67	10,850	7,487	0.69	2.85
27	22	12,150	6,926	0.57	2.61	11,900	6,783	0.57	2.76	11,600	6,612	0.57	2.94
28	16	9,900	9,603	0.97	2.42	9,600	9,312	0.97	2.56	9,300	9,021	0.97	2.71
28	18	10,600	9,010	0.85	2.47	10,300	8,755	0.85	2.61	9,950	8,458	0.85	2.79
28	20	11,400	8,322	0.73	2.55	11,150	8,140	0.73	2.67	10,850	7,921	0.73	2.85
28	22	12,150	7,412	0.61	2.61	11,900	7,259	0.61	2.76	11,600	7,076	0.61	2.94
30	16	9,900	9,900	1.00	2.42	9,600	9,600	1.00	2.56	9,300	9,300	1.00	2.71
30	18	10,600	9,858	0.93	2.47	10,300	9,579	0.93	2.61	9,950	9,254	0.93	2.79
30	20	11,400	9,234	0.81	2.55	11,150	9,032	0.81	2.67	10,850	8,789	0.81	2.85
30	22	12,150	8,384	0.69	2.61	11,900	8,211	0.69	2.76	11,600	8,004	0.69	2.94
32	16	9,900	9,900	1.00	2.42	9,600	9,600	1.00	2.56	9,300	9,300	1.00	2.71
32	18	10,600	10,600	1.00	2.47	10,300	10,300	1.00	2.61	9,950	9,950	1.00	2.79
32	20	11,400	10,146	0.89	2.55	11,150	9,924	0.89	2.67	10,850	9,657	0.89	2.85
32	22	12,150	9,356	0.77	2.61	11,900	9,163	0.77	2.76	11,600	8,932	0.77	2.94
34	16	9,900	9,900	1.00	2.42	9,600	9,600	1.00	2.56	9,300	9,300	1.00	2.71
34	18	10,600	10,600	1.00	2.47	10,300	10,300	1.00	2.61	9,950	9,950	1.00	2.79
34	20	11,400	11,058	0.97	2.55	11,150	10,816	0.97	2.67	10,850	10,525	0.97	2.85
34	22	12,150	10,328	0.85	2.61	11,900	10,115	0.85	2.76	11,600	9,860	0.85	2.94

NOTE: CA: Capacity (W) SHC: Sensible heat capacity (W)
P.C.: Power consumption (kW) SHF: Sensible heat factor

**COOLING CAPACITY (4)
PLA-RP4AA.UK / PUHZ-RP4VHA**

(230V)

Indoor intake air D.B.(°C)	Indoor intake air W.B.(°C)	Outdoor intake air D.B.(°C)											
		35				40				45			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	8,900	5,785	0.65	2.91	8,500	5,525	0.65	3.12	8,100	5,265	0.65	3.38
20	18	9,600	5,088	0.53	2.98	9,300	4,929	0.53	3.21	8,700	4,611	0.53	3.45
20	20	10,400	4,264	0.41	3.06	10,000	4,100	0.41	3.27	9,400	3,854	0.41	3.51
22	16	8,900	6,497	0.73	2.91	8,500	6,205	0.73	3.12	8,100	5,913	0.73	3.38
22	18	9,600	5,856	0.61	2.98	9,300	5,673	0.61	3.21	8,700	5,307	0.61	3.45
22	20	10,400	5,096	0.49	3.06	10,000	4,900	0.49	3.27	9,400	4,606	0.49	3.51
24	16	8,900	7,209	0.81	2.91	8,500	6,885	0.81	3.12	8,100	6,561	0.81	3.38
24	18	9,600	6,624	0.69	2.98	9,300	6,417	0.69	3.21	8,700	6,003	0.69	3.45
24	20	10,400	5,928	0.57	3.06	10,000	5,700	0.57	3.27	9,400	5,358	0.57	3.51
24	22	11,200	5,040	0.45	3.12	10,800	4,860	0.45	3.36	10,200	4,590	0.45	3.58
26	16	8,900	7,921	0.89	2.91	8,500	7,565	0.89	3.12	8,100	7,209	0.89	3.38
26	18	9,600	7,392	0.77	2.98	9,300	7,161	0.77	3.21	8,700	6,699	0.77	3.45
26	20	10,400	6,760	0.65	3.06	10,000	6,500	0.65	3.27	9,400	6,110	0.65	3.51
26	22	11,200	5,936	0.53	3.12	10,800	5,724	0.53	3.36	10,200	5,406	0.53	3.58
27	16	8,900	8,277	0.93	2.91	8,500	7,905	0.93	3.12	8,100	7,533	0.93	3.38
27	18	9,600	7,776	0.81	2.98	9,300	7,533	0.81	3.21	8,700	7,047	0.81	3.45
27	20	10,400	7,176	0.69	3.06	10,000	6,900	0.69	3.27	9,400	6,486	0.69	3.51
27	22	11,200	6,384	0.57	3.12	10,800	6,156	0.57	3.36	10,200	5,814	0.57	3.58
28	16	8,900	8,633	0.97	2.91	8,500	8,245	0.97	3.12	8,100	7,857	0.97	3.38
28	18	9,600	8,160	0.85	2.98	9,300	7,905	0.85	3.21	8,700	7,395	0.85	3.45
28	20	10,400	7,592	0.73	3.06	10,000	7,300	0.73	3.27	9,400	6,862	0.73	3.51
28	22	11,200	6,832	0.61	3.12	10,800	6,588	0.61	3.36	10,200	6,222	0.61	3.58
30	16	8,900	8,900	1.00	2.91	8,500	8,500	1.00	3.12	8,100	8,100	1.00	3.38
30	18	9,600	8,928	0.93	2.98	9,300	8,649	0.93	3.21	8,700	8,091	0.93	3.45
30	20	10,400	8,424	0.81	3.06	10,000	8,100	0.81	3.27	9,400	7,614	0.81	3.51
30	22	11,200	7,728	0.69	3.12	10,800	7,452	0.69	3.36	10,200	7,038	0.69	3.58
32	16	8,900	8,900	1.00	2.91	8,500	8,500	1.00	3.12	8,100	8,100	1.00	3.38
32	18	9,600	9,600	1.00	2.98	9,300	9,300	1.00	3.21	8,700	8,700	1.00	3.45
32	20	10,400	9,256	0.89	3.06	10,000	8,900	0.89	3.27	9,400	8,366	0.89	3.51
32	22	11,200	8,624	0.77	3.12	10,800	8,316	0.77	3.36	10,200	7,854	0.77	3.58
34	16	8,900	8,900	1.00	2.91	8,500	8,500	1.00	3.12	8,100	8,100	1.00	3.38
34	18	9,600	9,600	1.00	2.98	9,300	9,300	1.00	3.21	8,700	8,700	1.00	3.45
34	20	10,400	10,088	0.97	3.06	10,000	9,700	0.97	3.27	9,400	9,118	0.97	3.51
34	22	11,200	9,520	0.85	3.12	10,800	9,180	0.85	3.36	10,200	8,670	0.85	3.58

NOTE: CA: Capacity (W) SHC: Sensible heat capacity (W)
P.C.: Power consumption (kW) SHF: Sensible heat factor

**COOLING CAPACITY (5)
PLA-RP5AA.UK / PUHZ-RP5VHA**

(230V)

Indoor intake air D.B.(°C)	Indoor intake air W.B.(°C)	Outdoor intake air D.B.(°C)											
		20				25				30			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	12,375	7,920	0.64	3.11	12,000	7,680	0.64	3.29	11,625	7,440	0.64	3.48
20	18	13,250	6,890	0.52	3.17	12,875	6,695	0.52	3.35	12,438	6,468	0.52	3.58
20	20	14,250	5,700	0.40	3.27	13,938	5,575	0.40	3.42	13,563	5,425	0.40	3.66
22	16	12,375	8,910	0.72	3.11	12,000	8,640	0.72	3.29	11,625	8,370	0.72	3.48
22	18	13,250	7,950	0.60	3.17	12,875	7,725	0.60	3.35	12,438	7,463	0.60	3.58
22	20	14,250	6,840	0.48	3.27	13,938	6,690	0.48	3.42	13,563	6,510	0.48	3.66
24	16	12,375	9,900	0.80	3.11	12,000	9,600	0.80	3.29	11,625	9,300	0.80	3.48
24	18	13,250	9,010	0.68	3.17	12,875	8,755	0.68	3.35	12,438	8,458	0.68	3.58
24	20	14,250	7,980	0.56	3.27	13,938	7,805	0.56	3.42	13,563	7,595	0.56	3.66
24	22	15,188	6,683	0.44	3.35	14,875	6,545	0.44	3.54	14,500	6,380	0.44	3.77
26	16	12,375	10,890	0.88	3.11	12,000	10,560	0.88	3.29	11,625	10,230	0.88	3.48
26	18	13,250	10,070	0.76	3.17	12,875	9,785	0.76	3.35	12,438	9,453	0.76	3.58
26	20	14,250	9,120	0.64	3.27	13,938	8,920	0.64	3.42	13,563	8,680	0.64	3.66
26	22	15,188	7,898	0.52	3.35	14,875	7,735	0.52	3.54	14,500	7,540	0.52	3.77
27	16	12,375	11,385	0.92	3.11	12,000	11,040	0.92	3.29	11,625	10,695	0.92	3.48
27	18	13,250	10,600	0.80	3.17	12,875	10,300	0.80	3.35	12,438	9,950	0.80	3.58
27	20	14,250	9,690	0.68	3.27	13,938	9,478	0.68	3.42	13,563	9,223	0.68	3.66
27	22	15,188	8,505	0.56	3.35	14,875	8,330	0.56	3.54	14,500	8,120	0.56	3.77
28	16	12,375	11,880	0.96	3.11	12,000	11,520	0.96	3.29	11,625	11,160	0.96	3.48
28	18	13,250	11,130	0.84	3.17	12,875	10,815	0.84	3.35	12,438	10,448	0.84	3.58
28	20	14,250	10,260	0.72	3.27	13,938	10,035	0.72	3.42	13,563	9,765	0.72	3.66
28	22	15,188	9,113	0.60	3.35	14,875	8,925	0.60	3.54	14,500	8,700	0.60	3.77
30	16	12,375	12,375	1.00	3.11	12,000	12,000	1.00	3.29	11,625	11,625	1.00	3.48
30	18	13,250	12,190	0.92	3.17	12,875	11,845	0.92	3.35	12,438	11,443	0.92	3.58
30	20	14,250	11,400	0.80	3.27	13,938	11,150	0.80	3.42	13,563	10,850	0.80	3.66
30	22	15,188	10,328	0.68	3.35	14,875	10,115	0.68	3.54	14,500	9,860	0.68	3.77
32	16	12,375	12,375	1.00	3.11	12,000	12,000	1.00	3.29	11,625	11,625	1.00	3.48
32	18	13,250	13,250	1.00	3.17	12,875	12,875	1.00	3.35	12,438	12,438	1.00	3.58
32	20	14,250	12,540	0.88	3.27	13,938	12,265	0.88	3.42	13,563	11,935	0.88	3.66
32	22	15,188	11,543	0.76	3.35	14,875	11,305	0.76	3.54	14,500	11,020	0.76	3.77
34	16	12,375	12,375	1.00	3.11	12,000	12,000	1.00	3.29	11,625	11,625	1.00	3.48
34	18	13,250	13,250	1.00	3.17	12,875	12,875	1.00	3.35	12,438	12,438	1.00	3.58
34	20	14,250	13,680	0.96	3.27	13,938	13,380	0.96	3.42	13,563	13,020	0.96	3.66
34	22	15,188	12,758	0.84	3.35	14,875	12,495	0.84	3.54	14,500	12,180	0.84	3.77

NOTE: CA: Capacity (W) SHC: Sensible heat capacity (W)
P.C.: Power consumption (kW) SHF: Sensible heat factor

**COOLING CAPACITY (6)
PLA-RP5AA.UK / PUHZ-RP5VHA**

(230V)

Indoor intake air D.B.(°C)	Indoor intake air W.B.(°C)	Outdoor intake air D.B.(°C)											
		35				40				45			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	11,125	7,120	0.64	3.73	10,625	6,800	0.64	4.01	10,125	6,480	0.64	4.34
20	18	12,000	6,240	0.52	3.83	11,625	6,045	0.52	4.12	10,875	5,655	0.52	4.43
20	20	13,000	5,200	0.40	3.93	12,500	5,000	0.40	4.20	11,750	4,700	0.40	4.51
22	16	11,125	8,010	0.72	3.73	10,625	7,650	0.72	4.01	10,125	7,290	0.72	4.34
22	18	12,000	7,200	0.60	3.83	11,625	6,975	0.60	4.12	10,875	6,525	0.60	4.43
22	20	13,000	6,240	0.48	3.93	12,500	6,000	0.48	4.20	11,750	5,640	0.48	4.51
24	16	11,125	8,900	0.80	3.73	10,625	8,500	0.80	4.01	10,125	8,100	0.80	4.34
24	18	12,000	8,160	0.68	3.83	11,625	7,905	0.68	4.12	10,875	7,395	0.68	4.43
24	20	13,000	7,280	0.56	3.93	12,500	7,000	0.56	4.20	11,750	6,580	0.56	4.51
24	22	14,000	6,160	0.44	4.01	13,500	5,940	0.44	4.32	12,750	5,610	0.44	4.59
26	16	11,125	9,790	0.88	3.73	10,625	9,350	0.88	4.01	10,125	8,910	0.88	4.34
26	18	12,000	9,120	0.76	3.83	11,625	8,835	0.76	4.12	10,875	8,265	0.76	4.43
26	20	13,000	8,320	0.64	3.93	12,500	8,000	0.64	4.20	11,750	7,520	0.64	4.51
26	22	14,000	7,280	0.52	4.01	13,500	7,020	0.52	4.32	12,750	6,630	0.52	4.59
27	16	11,125	10,235	0.92	3.73	10,625	9,775	0.92	4.01	10,125	9,315	0.92	4.34
27	18	12,000	9,600	0.80	3.83	11,625	9,300	0.80	4.12	10,875	8,700	0.80	4.43
27	20	13,000	8,840	0.68	3.93	12,500	8,500	0.68	4.20	11,750	7,990	0.68	4.51
27	22	14,000	7,840	0.56	4.01	13,500	7,560	0.56	4.32	12,750	7,140	0.56	4.59
28	16	11,125	10,680	0.96	3.73	10,625	10,200	0.96	4.01	10,125	9,720	0.96	4.34
28	18	12,000	10,080	0.84	3.83	11,625	9,765	0.84	4.12	10,875	9,135	0.84	4.43
28	20	13,000	9,360	0.72	3.93	12,500	9,000	0.72	4.20	11,750	8,460	0.72	4.51
28	22	14,000	8,400	0.60	4.01	13,500	8,100	0.60	4.32	12,750	7,650	0.60	4.59
30	16	11,125	11,125	1.00	3.73	10,625	10,625	1.00	4.01	10,125	10,125	1.00	4.34
30	18	12,000	11,040	0.92	3.83	11,625	10,695	0.92	4.12	10,875	10,005	0.92	4.43
30	20	13,000	10,400	0.80	3.93	12,500	10,000	0.80	4.20	11,750	9,400	0.80	4.51
30	22	14,000	9,520	0.68	4.01	13,500	9,180	0.68	4.32	12,750	8,670	0.68	4.59
32	16	11,125	11,125	1.00	3.73	10,625	10,625	1.00	4.01	10,125	10,125	1.00	4.34
32	18	12,000	12,000	1.00	3.83	11,625	11,625	1.00	4.12	10,875	10,875	1.00	4.43
32	20	13,000	11,440	0.88	3.93	12,500	11,000	0.88	4.20	11,750	10,340	0.88	4.51
32	22	14,000	10,640	0.76	4.01	13,500	10,260	0.76	4.32	12,750	9,690	0.76	4.59
34	16	11,125	11,125	1.00	3.73	10,625	10,625	1.00	4.01	10,125	10,125	1.00	4.34
34	18	12,000	12,000	1.00	3.83	11,625	11,625	1.00	4.12	10,875	10,875	1.00	4.43
34	20	13,000	12,480	0.96	3.93	12,500	12,000	0.96	4.20	11,750	11,280	0.96	4.51
34	22	14,000	11,760	0.84	4.01	13,500	11,340	0.84	4.32	12,750	10,710	0.84	4.59

NOTE: CA: Capacity (W) SHC: Sensible heat capacity (W)
P.C.: Power consumption (kW) SHF: Sensible heat factor

**COOLING CAPACITY (7)
PLA-RP6AA.UK / PUHZ-RP6VHA**

(230V)

Indoor intake air D.B.(°C)	Indoor intake air W.B.(°C)	Outdoor intake air D.B.(°C)											
		20				25				30			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	13,860	8,455	0.61	3.99	13,440	8,198	0.61	4.22	13,020	7,942	0.61	4.47
20	18	14,840	7,272	0.49	4.07	14,420	7,066	0.49	4.29	13,930	6,826	0.49	4.59
20	20	15,960	5,905	0.37	4.19	15,610	5,776	0.37	4.39	15,190	5,620	0.37	4.69
22	16	13,860	9,563	0.69	3.99	13,440	9,274	0.69	4.22	13,020	8,984	0.69	4.47
22	18	14,840	8,459	0.57	4.07	14,420	8,219	0.57	4.29	13,930	7,940	0.57	4.59
22	20	15,960	7,182	0.45	4.19	15,610	7,025	0.45	4.39	15,190	6,836	0.45	4.69
24	16	13,860	10,672	0.77	3.99	13,440	10,349	0.77	4.22	13,020	10,025	0.77	4.47
24	18	14,840	9,646	0.65	4.07	14,420	9,373	0.65	4.29	13,930	9,055	0.65	4.59
24	20	15,960	8,459	0.53	4.19	15,610	8,273	0.53	4.39	15,190	8,051	0.53	4.69
24	22	17,010	6,974	0.41	4.29	16,660	6,831	0.41	4.54	16,240	6,658	0.41	4.84
26	16	13,860	11,781	0.85	3.99	13,440	11,424	0.85	4.22	13,020	11,067	0.85	4.47
26	18	14,840	10,833	0.73	4.07	14,420	10,527	0.73	4.29	13,930	10,169	0.73	4.59
26	20	15,960	9,736	0.61	4.19	15,610	9,522	0.61	4.39	15,190	9,266	0.61	4.69
26	22	17,010	8,335	0.49	4.29	16,660	8,163	0.49	4.54	16,240	7,958	0.49	4.84
27	16	13,860	12,335	0.89	3.99	13,440	11,962	0.89	4.22	13,020	11,588	0.89	4.47
27	18	14,840	11,427	0.77	4.07	14,420	11,103	0.77	4.29	13,930	10,726	0.77	4.59
27	20	15,960	10,374	0.65	4.19	15,610	10,147	0.65	4.39	15,190	9,874	0.65	4.69
27	22	17,010	9,015	0.53	4.29	16,660	8,830	0.53	4.54	16,240	8,607	0.53	4.84
28	16	13,860	12,890	0.93	3.99	13,440	12,499	0.93	4.22	13,020	12,109	0.93	4.47
28	18	14,840	12,020	0.81	4.07	14,420	11,680	0.81	4.29	13,930	11,283	0.81	4.59
28	20	15,960	11,012	0.69	4.19	15,610	10,771	0.69	4.39	15,190	10,481	0.69	4.69
28	22	17,010	9,696	0.57	4.29	16,660	9,496	0.57	4.54	16,240	9,257	0.57	4.84
30	16	13,860	13,860	1.00	3.99	13,440	13,440	1.00	4.22	13,020	13,020	1.00	4.47
30	18	14,840	13,208	0.89	4.07	14,420	12,834	0.89	4.29	13,930	12,398	0.89	4.59
30	20	15,960	12,289	0.77	4.19	15,610	12,020	0.77	4.39	15,190	11,696	0.77	4.69
30	22	17,010	11,057	0.65	4.29	16,660	10,829	0.65	4.54	16,240	10,556	0.65	4.84
32	16	13,860	13,860	1.00	3.99	13,440	13,440	1.00	4.22	13,020	13,020	1.00	4.47
32	18	14,840	14,395	0.97	4.07	14,420	13,987	0.97	4.29	13,930	13,512	0.97	4.59
32	20	15,960	13,566	0.85	4.19	15,610	13,269	0.85	4.39	15,190	12,912	0.85	4.69
32	22	17,010	12,417	0.73	4.29	16,660	12,162	0.73	4.54	16,240	11,855	0.73	4.84
34	16	13,860	13,860	1.00	3.99	13,440	13,440	1.00	4.22	13,020	13,020	1.00	4.47
34	18	14,840	14,840	1.00	4.07	14,420	14,420	1.00	4.29	13,930	13,930	1.00	4.59
34	20	15,960	14,843	0.93	4.19	15,610	14,517	0.93	4.39	15,190	14,127	0.93	4.69
34	22	17,010	13,778	0.81	4.29	16,660	13,495	0.81	4.54	16,240	13,154	0.81	4.84

NOTE: CA: Capacity (W) SHC: Sensible heat capacity (W)
P.C.: Power consumption (kW) SHF: Sensible heat factor

**COOLING CAPACITY (8)
PLA-RP6AA.UK / PUHZ-RP6VHA**

(230V)

Indoor intake air D.B.(°C)	Indoor intake air W.B.(°C)	Outdoor intake air D.B.(°C)											
		35				40				45			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	12,460	7,601	0.61	4.79	11,900	7,259	0.61	5.14	11,340	6,917	0.61	5.56
20	18	13,440	6,586	0.49	4.92	13,020	6,380	0.49	5.29	12,180	5,968	0.49	5.69
20	20	14,560	5,387	0.37	5.04	14,000	5,180	0.37	5.39	13,160	4,869	0.37	5.79
22	16	12,460	8,597	0.69	4.79	11,900	8,211	0.69	5.14	11,340	7,825	0.69	5.56
22	18	13,440	7,661	0.57	4.92	13,020	7,421	0.57	5.29	12,180	6,943	0.57	5.69
22	20	14,560	6,552	0.45	5.04	14,000	6,300	0.45	5.39	13,160	5,922	0.45	5.79
24	16	12,460	9,594	0.77	4.79	11,900	9,163	0.77	5.14	11,340	8,732	0.77	5.56
24	18	13,440	8,736	0.65	4.92	13,020	8,463	0.65	5.29	12,180	7,917	0.65	5.69
24	20	14,560	7,717	0.53	5.04	14,000	7,420	0.53	5.39	13,160	6,975	0.53	5.79
24	22	15,680	6,429	0.41	5.14	15,120	6,199	0.41	5.54	14,280	5,855	0.41	5.89
26	16	12,460	10,591	0.85	4.79	11,900	10,115	0.85	5.14	11,340	9,639	0.85	5.56
26	18	13,440	9,811	0.73	4.92	13,020	9,505	0.73	5.29	12,180	8,891	0.73	5.69
26	20	14,560	8,882	0.61	5.04	14,000	8,540	0.61	5.39	13,160	8,028	0.61	5.79
26	22	15,680	7,683	0.49	5.14	15,120	7,409	0.49	5.54	14,280	6,997	0.49	5.89
27	16	12,460	11,089	0.89	4.79	11,900	10,591	0.89	5.14	11,340	10,093	0.89	5.56
27	18	13,440	10,349	0.77	4.92	13,020	10,025	0.77	5.29	12,180	9,379	0.77	5.69
27	20	14,560	9,464	0.65	5.04	14,000	9,100	0.65	5.39	13,160	8,554	0.65	5.79
27	22	15,680	8,310	0.53	5.14	15,120	8,014	0.53	5.54	14,280	7,568	0.53	5.89
28	16	12,460	11,588	0.93	4.79	11,900	11,067	0.93	5.14	11,340	10,546	0.93	5.56
28	18	13,440	10,886	0.81	4.92	13,020	10,546	0.81	5.29	12,180	9,866	0.81	5.69
28	20	14,560	10,046	0.69	5.04	14,000	9,660	0.69	5.39	13,160	9,080	0.69	5.79
28	22	15,680	8,938	0.57	5.14	15,120	8,618	0.57	5.54	14,280	8,140	0.57	5.89
30	16	12,460	12,460	1.00	4.79	11,900	11,900	1.00	5.14	11,340	11,340	1.00	5.56
30	18	13,440	11,962	0.89	4.92	13,020	11,588	0.89	5.29	12,180	10,840	0.89	5.69
30	20	14,560	11,211	0.77	5.04	14,000	10,780	0.77	5.39	13,160	10,133	0.77	5.79
30	22	15,680	10,192	0.65	5.14	15,120	9,828	0.65	5.54	14,280	9,282	0.65	5.89
32	16	12,460	12,460	1.00	4.79	11,900	11,900	1.00	5.14	11,340	11,340	1.00	5.56
32	18	13,440	13,037	0.97	4.92	13,020	12,629	0.97	5.29	12,180	11,815	0.97	5.69
32	20	14,560	12,376	0.85	5.04	14,000	11,900	0.85	5.39	13,160	11,186	0.85	5.79
32	22	15,680	11,446	0.73	5.14	15,120	11,038	0.73	5.54	14,280	10,424	0.73	5.89
34	16	12,460	12,460	1.00	4.79	11,900	11,900	1.00	5.14	11,340	11,340	1.00	5.56
34	18	13,440	13,440	1.00	4.92	13,020	13,020	1.00	5.29	12,180	12,180	1.00	5.69
34	20	14,560	13,541	0.93	5.04	14,000	13,020	0.93	5.39	13,160	12,239	0.93	5.79
34	22	15,680	12,701	0.81	5.14	15,120	12,247	0.81	5.54	14,280	11,567	0.81	5.89

NOTE: CA: Capacity (W) SHC: Sensible heat capacity (W)
P.C.: Power consumption (kW) SHF: Sensible heat factor

4-1-2. HEATING CAPACITY

PUHZ-RP3VHA, PUHZ-RP4VHA, PUHZ-RP5VHA, PUHZ-RP6VHA

(230V)

Service Ref.	Indoor intake air D.B. (°C)	Outdoor intake air W.B. (°C)											
		-10		-5		0		5		10		15	
		CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PLA-RP3AA.UK	15	5,080	1.38	5,520	1.52	6,160	1.76	8,080	2.11	9,120	2.34	10,160	2.53
	20	4,880	1.50	5,280	1.64	5,840	1.90	7,800	2.27	8,800	2.53	9,800	2.71
	25	4,720	1.59	5,120	1.78	5,600	2.06	7,360	2.41	8,480	2.70	9,440	2.91
PLA-RP4AA.UK	15	7,112	2.00	7,728	2.20	8,624	2.54	11,312	3.05	12,768	3.39	14,224	3.66
	20	6,832	2.17	7,392	2.37	8,176	2.75	10,920	3.29	12,320	3.66	13,720	3.93
	25	6,608	2.31	7,168	2.58	7,840	2.98	10,304	3.49	11,872	3.92	13,216	4.22
PLA-RP5AA.UK	15	8,890	2.52	9,660	2.78	10,780	3.20	14,140	3.84	15,960	4.27	17,780	4.61
	20	8,540	2.73	9,240	2.99	10,220	3.46	13,650	4.14	15,400	4.61	17,150	4.95
	25	8,260	2.90	8,960	3.25	9,800	3.76	12,880	4.40	14,840	4.93	16,520	5.32
PLA-RP6AA.UK	15	10,160	2.90	11,040	3.19	12,320	3.68	16,160	4.42	18,240	4.91	20,320	5.30
	20	9,760	3.14	10,560	3.44	11,680	3.98	15,600	4.76	17,600	5.30	19,600	5.70
	25	9,440	3.34	10,240	3.73	11,200	4.32	14,720	5.06	16,960	5.67	18,880	6.11

NOTE: CA: Capacity (W) P.C.: Power consumption (kW)

4-1-3. Correction factors

Cooling capacity correction factors

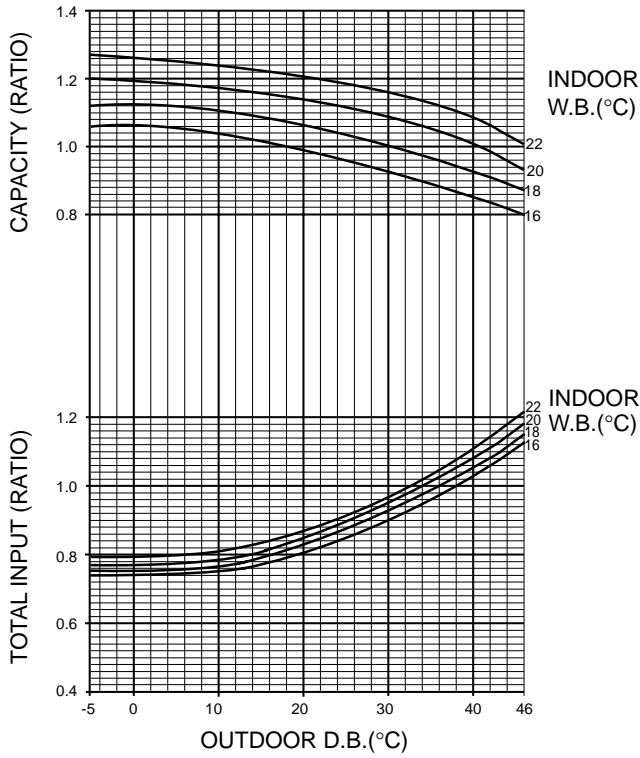
Service Ref.	Refrigerant piping length (one way)															
	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m	55m	60m	65m	70m	75m	80m
PLA-RP3AA.UK	1.00	0.989	0.978	0.967	0.956	0.947	0.938	0.930	0.913	0.905	—	—	—	—	—	—
PLA-RP4AA.UK	1.00	0.985	0.971	0.958	0.943	0.931	0.919	0.908	0.898	0.887	0.876	0.865	0.855	0.847	0.838	0.829
PLA-RP5AA.UK	1.00	0.982	0.963	0.947	0.930	0.914	0.900	0.885	0.871	0.858	0.845	0.834	0.823	0.812	0.802	0.792
PLA-RP6AA.UK	1.00	0.976	0.953	0.932	0.912	0.893	0.876	0.858	0.842	0.828	0.813	0.800	0.788	0.776	0.764	0.753

Heating capacity correction factors

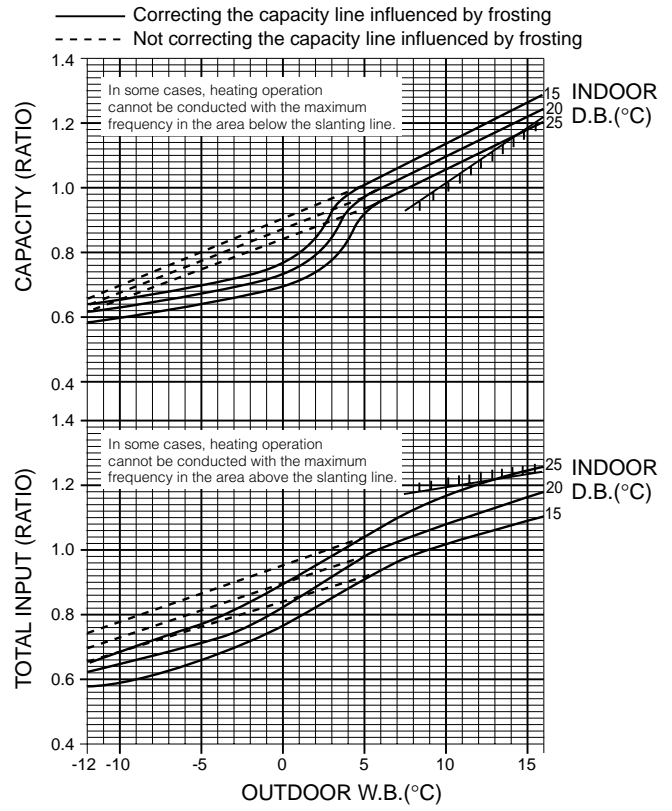
Service Ref.	Refrigerant piping length (one way)															
	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m	55m	60m	65m	70m	75m	80m
PLA-RP3AA.UK	1.00	0.997	0.994	0.991	0.988	0.985	0.982	0.979	0.976	0.973	—	—	—	—	—	—
PLA-RP4AA.UK	1.00	0.997	0.994	0.991	0.988	0.985	0.982	0.979	0.976	0.973	0.970	0.967	0.964	0.961	0.958	0.955
PLA-RP5AA.UK	1.00	0.997	0.994	0.991	0.988	0.985	0.982	0.979	0.976	0.973	0.970	0.967	0.964	0.961	0.958	0.955
PLA-RP6AA.UK	1.00	0.997	0.994	0.991	0.988	0.985	0.982	0.979	0.976	0.973	0.970	0.967	0.964	0.961	0.958	0.955

4-2. PERFORMANCE CURVE

Cooling performance curve(50Hz)



Heating performance curve(50Hz)



4-3. STANDARD OPERATION DATA

Heat pump type

Service Ref.			PLA-RP3AA.UK		PLA-RP4AA.UK		PLA-RP5AA.UK		PLA-RP6AA.UK		
Mode			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Total	Capacity	W	7,100	8,000	10,000	11,200	12,500	14,000	14,000	16,000	
	Input	kW	1.97	2.34	3.03	3.39	3.89	4.27	4.99	4.91	
Electrical circuit	Indoor unit Service Ref.		PLA-RP3AA.UK		PLA-RP4AA.UK		PLA-RP5AA.UK		PLA-RP6AA.UK		
	Phase,Hz		1 , 50		1 , 50		1 , 50		1 , 50		
	Volts	V	230		230		230		230		
	Input	kW	0.16		0.25		0.33		0.33		
	Current	A	0.79		1.25		1.64		1.64		
	Outdoor unit Service Ref.		PUHZ-RP3VHA		PUHZ-RP4VHA		PUHZ-RP5VHA		PUHZ-RP6VHA		
	Phase , Hz		1 , 50		1 , 50		1 , 50		1 , 50		
	Volts	V	230		230		230		230		
Refrigerant circuit	Current	A	8.04	9.74	12.33	13.94	15.80	17.50	20.73	20.37	
	Discharge pressure	Mpa (kgf/cm ²)	2.68 (27.31)	2.87 (29.3)	2.63 (26.8)	2.80 (28.6)	2.72 (27.7)	2.77 (28.3)	2.86 (29.2)	3.03 (30.9)	
	Suction pressure	Mpa (kgf/cm ²)	0.94 (9.6)	0.73 (7.4)	0.92 (9.4)	0.72 (7.3)	0.89 (9.1)	0.71 (7.2)	0.80 (8.2)	0.69 (7.0)	
	Discharge temperature	°C	70.0	73.7	70.0	76.4	69.7	76.8	78.9	83.0	
	Condensing temperature	°C	45.6	48.4	44.9	47.6	45.9	47.0	47.9	50.6	
	Suction temperature	°C	9.7	1.0	11.4	3.0	7.6	1.4	8.0	0.9	
Ref. pipe length	m	5	5	5	5	5	5	5	5		
Indoor side	Intake air temperature	D.B.	°C	27	20	27	20	27	20	27	20
		W.B.	°C	19	15	19	15	19	15	19	15
	Discharge air temperature	D.B.	°C	14.2	41.6	14.0	41.6	12.2	45.5	11.2	49.5
Outdoor side	Intake air temperature	D.B.	°C	35	7	35	7	35	7	35	7
		W.B.	°C	24	6	24	6	24	6	24	6
SHF			0.74	—	0.75	—	0.74	—	0.71	—	
BF			0.18	—	0.15	—	0.06	—	0.06	—	

The unit of pressure has been changed to Mpa based on international SI system.

The conversion factor is : 1(Mpa)=10.2(kgf/cm²)

4-4. OUTLET AIR SPEED AND COVERAGE RANGE

		PLA-RP3AA.UK	PLA-RP4AA.UK	PLA-RP5AA.UK	PLA-RP6AA.UK
Air flow	m ³ /min.	20	28	30	30
Air speed	m/sec.	4.0	4.9	6.6	6.6
Coverage range	m	5.7	7.4	8.9	8.9

* The air coverage range is the value up to the position where the air speed is 0.25m/sec.

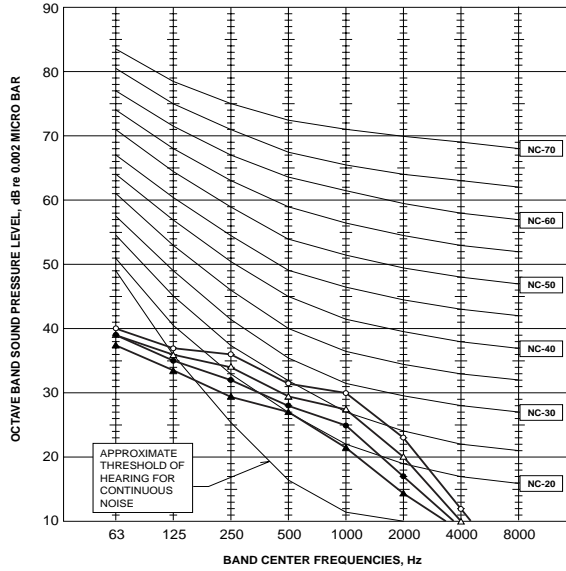
When air is blown out horizontally from the unit at the Hi notch position.

The coverage range should be used only as a general guideline since it varies according to the size of the room and the furniture inside the room.

4-5. NOISE CRITERION CURVES

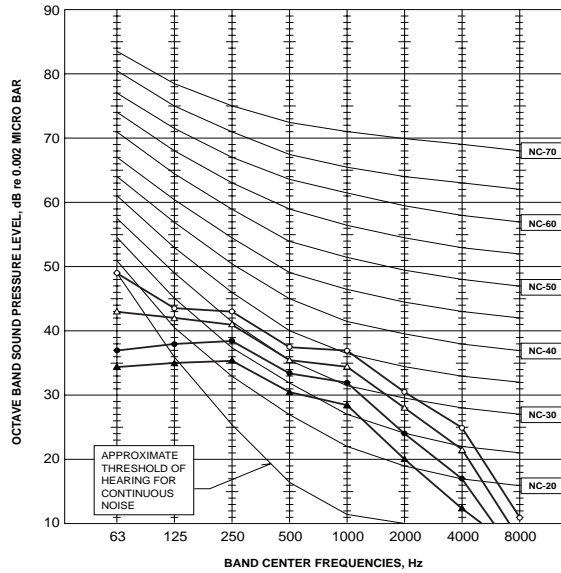
PLA-RP3AA.UK

NOTCH	SPL(dB)	LINE
Hi	34	○—○
Mi1	32	△—△
Mi2	30	●—●
Lo	28	▲—▲



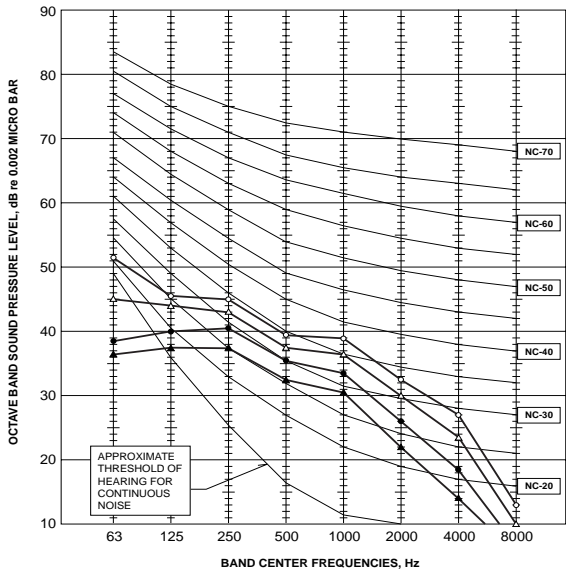
PLA-RP4AA.UK

NOTCH	SPL(dB)	LINE
Hi	41	○—○
Mi1	39	△—△
Mi2	36	●—●
Lo	33	▲—▲



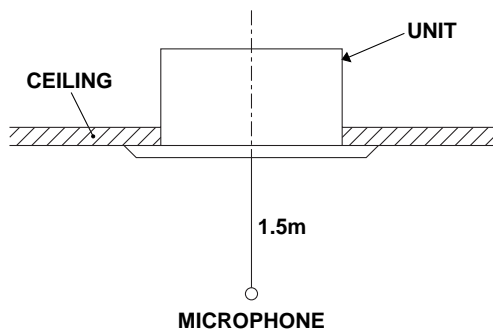
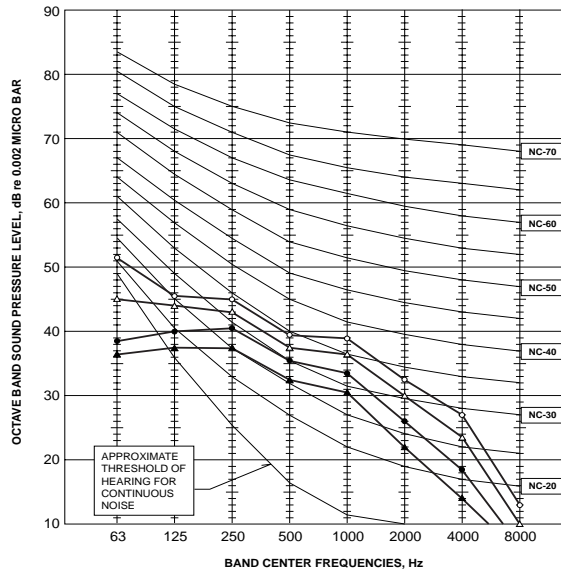
PLA-RP5AA.UK

NOTCH	SPL(dB)	LINE
Hi	45	○—○
Mi1	43	△—△
Mi2	40	●—●
Lo	37	▲—▲



PLA-RP6AA.UK

NOTCH	SPL(dB)	LINE
Hi	45	○—○
Mi1	43	△—△
Mi2	40	●—●
Lo	37	▲—▲

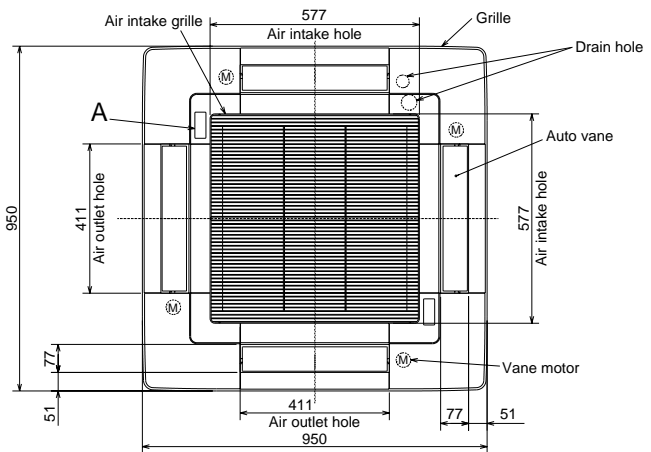
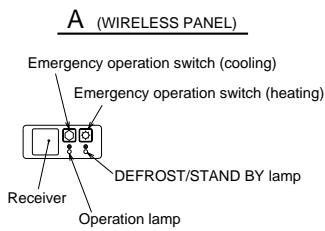
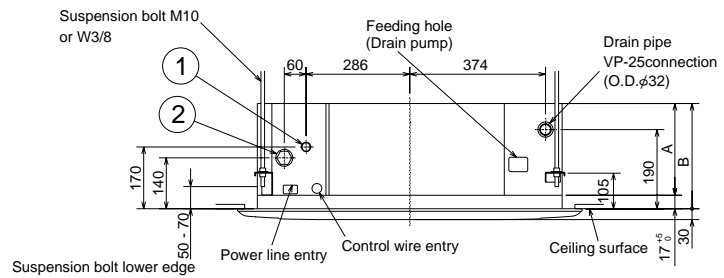
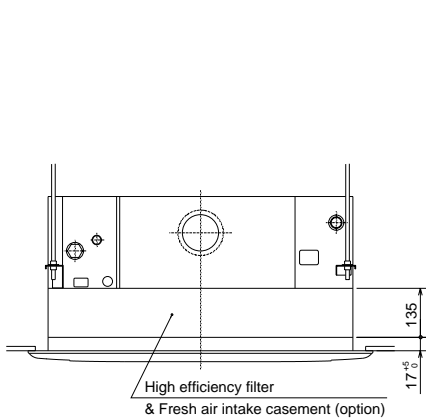
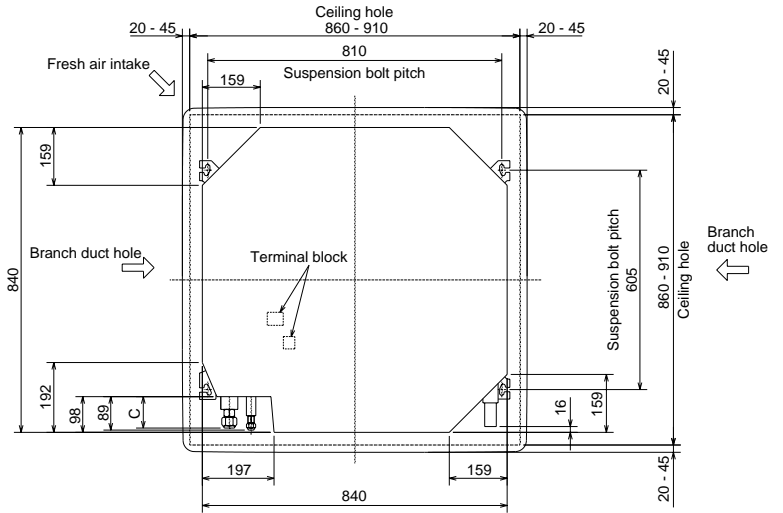
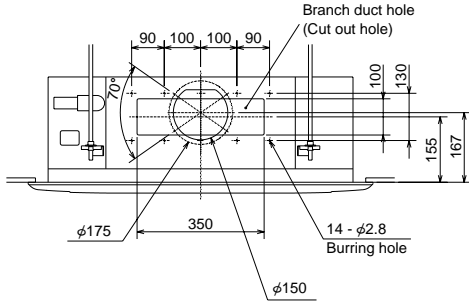


5

OUTLINES AND DIMENSIONS

PLA-RP3AA.UK
 PLA-RP4AA.UK
 PLA-RP5AA.UK
 PLA-RP6AA.UK

Unit : mm

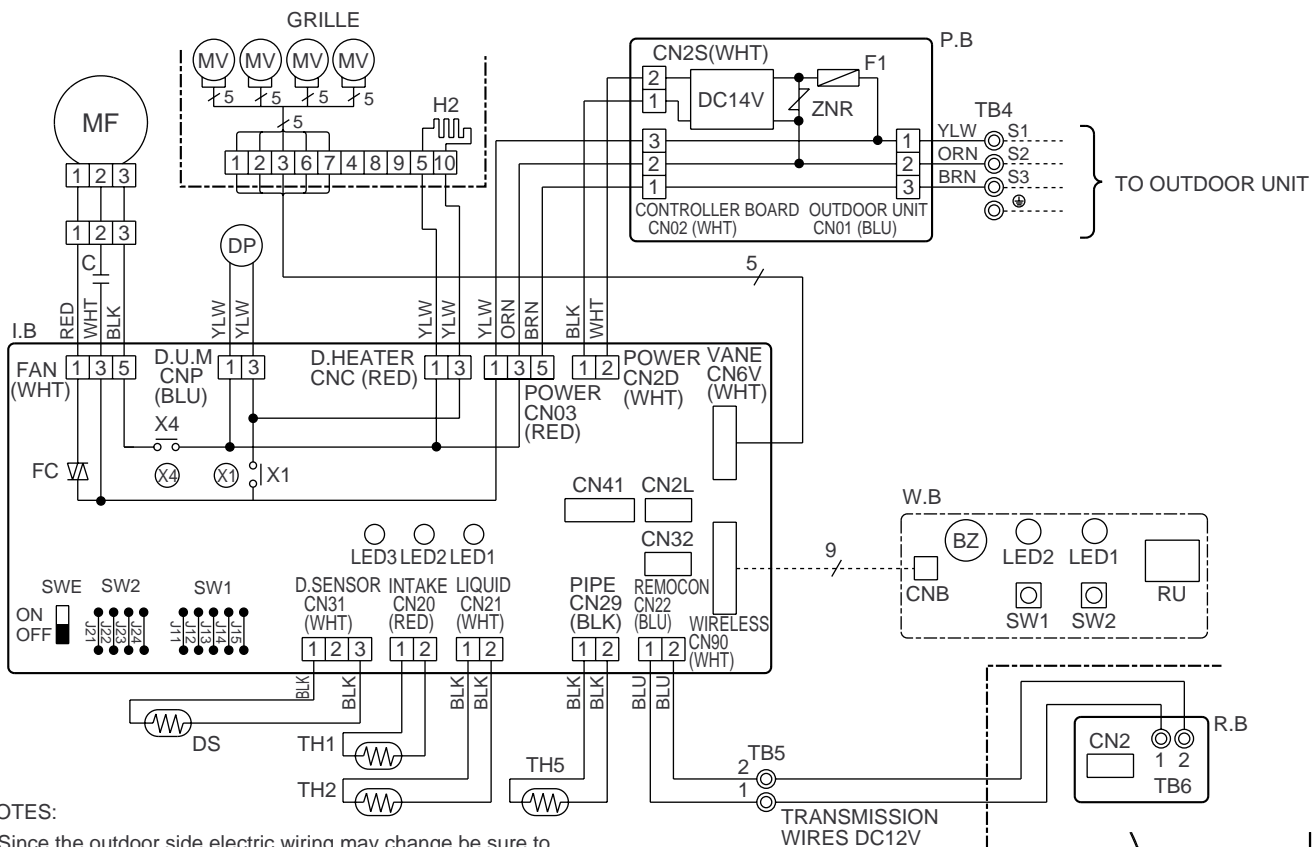


Models	①	②	A	B	C
PLA-RP3AA.UK	Refrigerant pipe (9.52mm dia.) flared connection 3/8F	Refrigerant pipe (15.88mm dia.) flared connection 5/8F	241	258	80
PLA-RP4/RP5/RP6AA.UK	Refrigerant pipe (9.52mm dia.) flared connection 3/8F	Refrigerant pipe (15.88mm dia.) flared connection 5/8F	281	298	84

PLA-RP3AA.UK, PLA-RP4AA.UK, PLA-RP5AA.UK, PLA-RP6AA.UK

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
P.B	INDOOR POWER BOARD	MV	VANE MOTOR	W.B	WIRELESS REMOTE CONTROLLER BOARD
F1	FUSE (4A)	DP	DRAIN-UP MACHINE	RU	RECEIVING UNIT
ZNR	VARISTOR	DS	DRAIN SENSOR	BZ	BUZZER
I.B	INDOOR CONTROLLER BOARD	H2	DEW PREVENTION HEATER	LED1	LED (RUN INDICATOR)
CN2L	CONNECTOR (LOSSNAY)	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)	LED2	LED (HOT ADJUST)
CN32	CONNECTOR (REMOTE SWITCH)	TB5	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)	SW1	SWITCH (HEATING ON/OFF)
CN41	CONNECTOR (HA TERMINAL-A)	TH1	ROOM TEMPERATURE THERMISTOR (0°C/15kΩ, 25°C/5.4kΩ DETECT)	SW2	SWITCH (COOLING ON/OFF)
SW1	JUMPER WIRE (MODEL SELECTION)	TH2	PIPE TEMPERATURE THERMISTOR/LIQUID (0°C/15kΩ, 25°C/5.4kΩ DETECT)		
SW2	JUMPER WIRE (CAPACITY CORD)	TH5	COND./EVA. TEMPERATURE THERMISTOR (0°C/15kΩ, 25°C/5.4kΩ DETECT)		
SWE	SWITCH (EMERGENCY OPERATION)	R.B	REMOTE CONTROLLER BOARD		
X1	RELAY (DRAIN PUMP)	CN2	CONNECTOR (PROGRAM TIMER)		
X4	RELAY (FAN MOTOR)	TB6	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)		
FC	FAN PHASE CONTROL				
LED1	POWER SUPPLY (I.B)				
LED2	POWER SUPPLY (I.B)				
LED3	TRANSMISSION (INDOOR-OUTDOOR)				
C	CAPACITOR (FAN MOTOR)				
MF	FAN MOTOR				



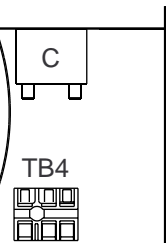
NOTES:

1. Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
2. Indoor and outdoor connecting wires are made with polarities, make wiring matching terminal numbers (S1, S2, S3).
3. Symbols used in wiring diagram above are, : Connector, : Terminal (block).

[Servicing]

Fasten terminal of the terminal board "TB4" equips lock system. To remove the fastened terminal, pull it while pressing the protruding portion (locking lever) of the terminal. The fastened terminal protruding portion should face upward.

Please set the voltage using the remote controller. For the setting method, please refer to the indoor unit Installation Manual.

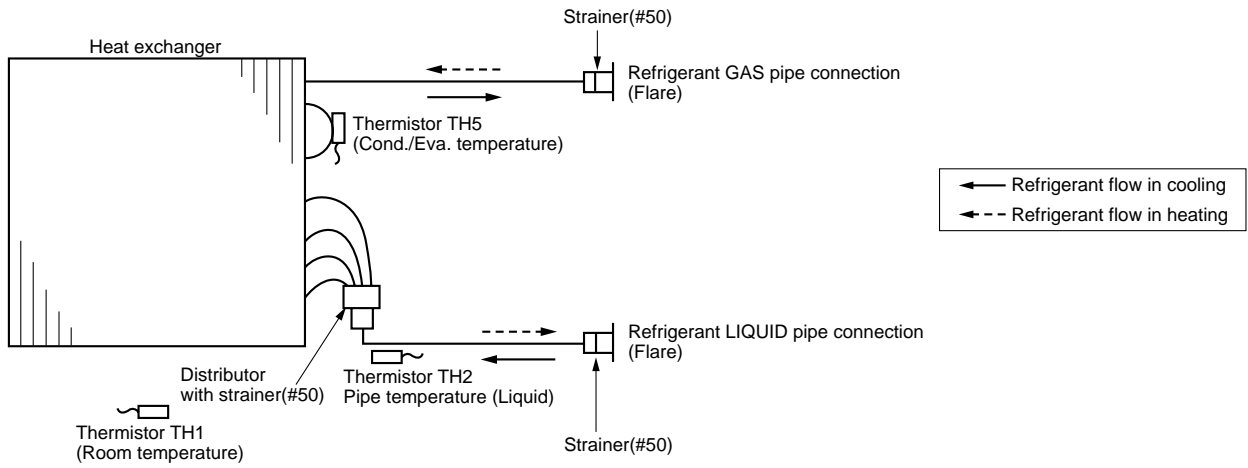


SW1		
MODELS	Manufacture	Service board
PLA-RP3,4,5,6AA.UK		

SW2					
MODELS	Manufacture	Service board	MODELS	Manufacture	Service board
PLA-RP3AA.UK			PLA-RP5AA.UK		
PLA-RP4AA.UK			PLA-RP6AA.UK		

PLA-RP3AA.UK
 PLA-RP4AA.UK
 PLA-RP5AA.UK
 PLA-RP6AA.UK

Unit : mm(inch)



8-1. 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 and control board of outdoor unit.

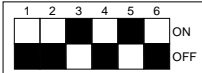
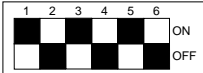
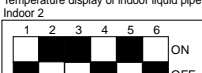

Actions to be taken for service, which depends on whether or not the inferior phenomenon is reoccurring at service, are summarized in the table below. Check the contents below before investigating details.

Unit conditions at service	Error code	Actions to be taken for service (summary)
The inferior phenomenon is reoccurring.	Displayed	Judge what is wrong and take a corrective action according to "Self-diagnosis action table" (P.27).
	Not displayed	Conduct trouble shooting and ascertain the cause of the inferior phenomenon according to "Trouble shooting by inferior phenomena" (P.30).
The inferior phenomenon is not reoccurring.	Logged	<ul style="list-style-type: none"> ①Consider the temporary defects such as the work of protection devices in the refrigerant circuit including compressor, poor connection of wiring, noise and etc. Re-check the symptom, and check the installation environment, refrigerant amount, weather when the inferior phenomenon occurred, matters related to wiring and etc. ②Reset error code logs and restart the unit after finishing service. ③There is no abnormality concerning of parts such as electrical component, controller board, remote controller and etc.
	Not logged	<ul style="list-style-type: none"> ①Recheck the abnormal symptom. ②Conduct trouble shooting and ascertain the cause of the inferior phenomenon according to "Trouble shooting by inferior phenomena" (P.30). ③Continue to operate unit for the time being if the cause is not ascertained. ④There is no abnormality concerning of parts such as electrical component, controller board, remote controller and etc.

8-2. SELF-DIAGNOSIS ACTION TABLE

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

Error Code	Meaning of error code and detection method	Case	Judgment and action
P1	<p>Abnormality of room temperature thermistor (TH1)</p> <p>① The unit is in three-minute resume prevention mode if short/open of thermistor is detected. Abnormal if the unit does not reset normally after three minutes. (The unit returns to normal operation, if it has normally reset.)</p> <p>② Constantly detected during cooling, drying, and heating operation. Short: 90°C or more Open: -40°C or less</p>	<p>① Defective thermistor characteristics</p> <p>② Contact failure of connector (Insert failure)</p> <p>③ Breaking of wire or contact failure of thermistor wiring</p> <p>④ Defective indoor control p.c. board</p>	<p>①-③ Check resistance value of thermistor. 0°C15.0kΩ 10°C9.6kΩ 20°C6.3kΩ 30°C4.3kΩ 40°C3.0kΩ</p> <p>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.</p> <p>② Check contact failure of connector. Put the power on again and check restart after inserting connector again.</p> <p>④ Check room temperature display on remote controller Replace indoor control p.c. board if there is abnormal difference with actual room temperature. There is no abnormality if none of above comes within the unit. Put the power off, and on again to operate.</p>
P2	<p>Abnormality of pipe temperature thermistor/Liquid (TH2)</p> <p>① The unit is in three-minute resume prevention mode if short/open of thermistor is detected. Abnormal if the unit does not reset normally after three minutes. (The unit returns to normal operation, if it has normally reset.)</p> <p>② Constantly detected during cooling, drying, and heating (except defrosting) operation. Short: 90°C or more Open: -40°C or less</p>	<p>① Defective thermistor characteristics</p> <p>② Contact failure of connector (Insert failure)</p> <p>③ Breaking of wire or contact failure of thermistor wiring</p> <p>④ Defective refrigerant circuit is causing thermistor temperature of 90°C or more or -40°C or less.</p> <p>⑤ Defective indoor control p.c. board.</p>	<p>①-③ Check resistance value of thermistor. For characteristics, refer to (P1) above.</p> <p>② Check contact failure of connector Put the power on and check restart after inserting connector again.</p> <p>④ Check pipe <liquid> temperature with remote controller in test run mode. If pipe <liquid> temperature is exclusively low (in cooling mode) or high (in heating mode), refrigerant circuit may have defective.</p> <p>⑤ Check pipe <liquid> temperature with remote controller in test run mode. If there is exclusive difference with actual pipe <liquid> temperature, replace indoor control p.c. board. There is no abnormality if none of above comes within the unit. Put the power off, and on again to operate.</p>
P4	<p>Abnormality of drain sensor (DS)</p> <p>① Suspensive abnormality, if short/open of thermistor is detected for 30 seconds continuously. Put off compressor and indoor fan.</p> <p>② Short/open is detected for 30 seconds continuously during suspensive abnormality. (The unit returns to normal operation, if it has normally reset.)</p> <p>③ Detect the following condition.</p> <ul style="list-style-type: none"> • During cooling and drying operation. • In case that pipe <liquid> temperature-room temperature <-10deg (Except defrosting) • When pipe <liquid> temperature or room temperature is short/open temperature. • During drain pump operation. 	<p>① Defective thermistor characteristics</p> <p>② Contact failure of connector (Insert failure)</p> <p>③ Breaking of wire or contact failure of drain sensor wiring</p> <p>④ Defective indoor control p.c. board.</p>	<p>①-③ Check resistance value of thermistor. 0°C6.0kΩ 10°C3.9kΩ 20°C2.6kΩ 30°C1.8kΩ 40°C1.3kΩ</p> <p>② Check contact failure of connector. Put the power on again and check restart after inserting connector again.</p> <p>④ Replace indoor control p.c. board if drain pump operates with the line of drain sensor connector CN31-① and ② is short-circuited, and abnormality reappears. There is no abnormality if none of above comes within the unit. Put the power off, and on again to operate.</p>
P5	<p>Malfunction of drain pump</p> <p>① Suspensive abnormality, if thermistor of drain sensor is let heat itself and temperature rises slightly. Put off compressor and indoor fan.</p> <p>② Drain pump is abnormal if the condition above is detected during suspensive abnormality.</p> <p>③ Constantly detected during drain pump operation.</p>	<p>① Malfunction of drain pump</p> <p>② Defective drain Clogged drain pump Clogged drain pipe</p> <p>③ Attached drop of water at the drain sensor</p> <ul style="list-style-type: none"> • Drops of drain trickles from lead wire. • Clogged filter is causing wave of drain. <p>④ Defective indoor control p.c. board.</p>	<p>① Check if drain-up machine works.</p> <p>② Check drain function.</p> <p>③ Check the setting of lead wire of drain sensor and check clogs of the filter.</p> <p>④ Replace indoor control p.c. board if drain pump operates with the line of drain sensor connector CN31-① and ② is short-circuited and abnormality reappears. There is no abnormality if none of above comes within the unit. Put the power off, and on again to operate.</p>

Error Code	Meaning of error code and detection method	Case	Judgment and action
P6	<p>Freezing/overheating protection is working</p> <p>① Freezing protection (Cooling mode) The unit is in six-minute resume prevention mode if pipe <liquid or condenser-evaporator> temperature stays under -15°C for three minutes, three minutes after the compressor started. Abnormal if it stays under -15°C for three minutes again within 16 minutes after six-minute resume prevention mode.</p> <p>② Frost abnormality (Only for the combination with inverter-type outdoor unit) Suspensive abnormal if unit operates in frost prevention mode (below) for 9 minutes or more. After that, when frost prevention mode is released and compressor restarts its operation, unit is not detected as abnormal if compressor keeps operating for 20 minutes continuously and abnormal if compressor stops operating within 20 minutes and unit operates in frost prevention mode for more than 9 minutes again. (Not abnormal if unit stops operating in frost prevention mode within 9 minutes) <Frost prevention mode> If pipe <liquid or condenser-evaporator> temperature is 2°C or below when 16 minutes has passed after compressor starts operating, unit will start operating in frost prevention mode which stops compressor operation. After that, when pipe <liquid or condenser-evaporator> temperature stays 10°C or more for 3 minutes, frost prevention mode will be released and compressor will restart its operation.</p> <p>③ Overheating protection (Heating mode) The units is in six-minute resume prevention mode if pipe <condenser-evaporator> temperature is detected as over 74°C after the compressor started. Abnormal if the temperature of over 74°C is detected again within 10 minutes after six-minute resume prevention mode.</p>	<p>(Cooling or drying mode)</p> <p>① Clogged filter (reduced airflow) ② Short cycle of air path ③ Low-load (low temperature) operation beyond the tolerance range ④ Defective indoor fan motor Fan motor is defective. Control board is defective. ⑤ Defective outdoor fan control (middle season, winter season) ⑥ Overcharge of refrigerant ⑦ Defective refrigerant circuit (clogs)</p> <p>(Heating mode)</p> <p>① Clogged filter (reduced airflow) ② Short cycle of air path ③ Over-load (high temperature) operation beyond the tolerance range ④ Defective indoor fan motor Fan motor is defective. Control board is defective. ⑤ Malfunction of outdoor fan. (Season when air conditioner is not used.) ⑥ Overcharge of refrigerant ⑦ Defective refrigerant circuit (clogs) ⑧ Bypass circuit of outdoor unit is defective.</p>	<p>(Cooling or drying mode)</p> <p>① Check clogs of the filter. ② Remove shields. ④ Measure the resistance of fan motor's winding. Measure the output voltage of fan's connector (FAN) on control board. *The control board should be normal when a current of AC100V to 240V is detected while fan motor is connected. ⑤ Check action of outdoor fan motor. ⑥⑦ Check operating condition of refrigerant circuit.</p> <p>(Heating mode)</p> <p>① Check clogs of the filter. ② Remove shields. ④ Measure the resistance of fan motor's winding. Measure the output voltage of fan's connector (FAN) on control board. *The control board should be normal when a current of AC100V to 240V is detected while fan motor is connected. ⑤ Check the operation of fan motor in outdoor unit. ⑥~⑧ Check operating condition of refrigerant circuit.</p>
P8	<p>Abnormality of pipe temperature (Cooling mode) Detected as abnormal when the pipe temperature is not in the cooling range 3 minutes later of compressor start and 6 minutes later of the liquid or condenser/evaporator pipe is out of cooling range. Note 1) It takes at least 9 min. to detect abnormality. Note 2) Abnormality P8 is not detected in drying mode. Cooling range- = TH – intake temperature ≤ 3 deg TH: Lower temperature between: liquid pipe temperature and condenser/ evaporator temperature</p> <p>(Heating mode) When 10 seconds have passed after the compressor starts operation and the hot adjustment mode has finished, the unit is detected as abnormal when condenser/evaporator pipe temperature is not in heating range within 20 minutes.</p> <p>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 operation = 3 deg ≤ (Condenser/ Evaporator temperature – intake temperature)</p>	<p>① Slight temperature difference between indoor room temperature and pipe <liquid or condenser-evaporator> temperature thermistor</p> <ul style="list-style-type: none"> • Shortage of refrigerant • Disconnected holder of pipe <liquid or condenser-evaporator> thermistor • Defective refrigerant circuit <p>② Converse connection of extension pipe (on plural units connection)</p> <p>③ Converse wiring of indoor/outdoor unit connecting wire (on plural units connection)</p> <p>④ Defective detection of indoor room temperature and pipe <liquid or condenser-evaporator> temperature thermistor</p> <p>⑤ Defective stop valve action (It does not open fully.)</p>	<p>①④ Check pipe <liquid or condenser-evaporator> temperature with room temperature display on remote controller and outdoor control board.</p> <p>(In case of checking pipe temperature with outdoor control board, be sure to connect A-control service tool (PAC-SK52ST).)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Temperature display of indoor liquid pipe Indoor 1</p>  </div> <div style="text-align: center;"> <p>Temperature display of indoor condenser/evaporator pipe Indoor 1</p>  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Temperature display of indoor liquid pipe Indoor 2</p>  </div> <div style="text-align: center;"> <p>Temperature display of indoor condenser/evaporator pipe Indoor 2</p>  </div> </div> <p style="text-align: center; font-size: small;">A-Control Service Tool SW2 setting</p> <p>②③ Check converse connection of extension pipe or converse wiring of indoor/outdoor unit connecting wire.</p>

Error Code	Meaning of error code and detection method	Case	Judgment and action
P9	<p>Abnormality of pipe temperature thermistor / Condenser-Evaporator (TH5)</p> <p>① The unit is in three-minute resume protection mode if short/open of thermistor is detected. Abnormal if the unit does not get back to normal within three minutes. (The unit returns to normal operation, if it has normally reset.)</p> <p>② Constantly detected during cooling, drying, and heating operation (except defrosting) Short: 90°C or more Open: -40°C or less</p>	<p>① Defective thermistor characteristics</p> <p>② Contact failure of connector (Insert failure)</p> <p>③ Breaking of wire or contact failure of thermistor wiring</p> <p>④ Temperature of thermistor is 90°C or more or -40°C or less caused by defective refrigerant circuit.</p> <p>⑤ Defective indoor control p.c. board</p>	<p>①-③ Check resistance value of thermistor. For characteristics, refer to (P1) above.</p> <p>② Check contact failure of connector Put the power on and check restart after inserting connector again.</p> <p>④ Operate in test run mode and check pipe <condenser- evaporator> temperature with outdoor control p.c. board. If pipe <condenser-evaporator> temperature is exclusively low (in cooling mode) or high (in heating mode), refrigerant circuit may have defective.</p> <p>⑤ Operate in test run mode and check pipe <condenser- evaporator> temperature with outdoor control p.c. board. If there is exclusive difference with actual pipe <condenser-evaporator> temperature replace indoor control p.c. board There is no abnormality if none of above comes within the unit. Put the power off and on again to operate.</p> <p>(In case of checking pipe temperature with outdoor control p.c. board, be sure to connect A-control service tool (PAC-SK52ST).)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Temperature display of indoor condenser/ evaporator pipe Indoor 1</p> </div> <div style="text-align: center;"> <p>Temperature display of indoor condenser/ evaporator pipe Indoor 2</p> </div> </div> <p style="text-align: center; font-size: small;">A-Control Service Tool SW2 setting</p>
E4	<p>Remote controller signal receiving error</p> <p>① Abnormal if indoor control p.c. board can not receive normally any data from remote controller or from other indoor control p.c. board for three minutes.</p> <p>② Indoor control p.c. board cannot receive any signal from remote controller for two minutes.</p>	<p>① Contact failure at transmission wire of remote controller</p> <p>② All remote controllers are set as "sub" remote controller. In this case, E0 is displayed on remote controller, and E4 is displayed at outdoor LED.</p> <p>③ Defective transmitting receiving circuit of remote controller</p> <p>④ Defective transmitting receiving circuit of indoor control p.c. board</p> <p>⑤ Noise has entered into the transmission wire of remote controller.</p>	<p>① Check disconnection or looseness of indoor unit or transmission wire of remote controller.</p> <p>② Set one of the remote controllers "main". If there is no problem with the action above.</p> <p>③ Diagnose remote controllers.</p> <p>a) When "RC OK" is displayed, Remote controllers have no problem. Put the power off, and on again to check. If abnormality generates again, replace indoor control p.c. board.</p> <p>b) When "RC NG" is displayed, Replace remote controller.</p> <p>c) When "RC E3" is displayed,</p> <p>d) When "ERC 00-06" is displayed, →Noise may be causing abnormality. * If the unit is not normal after replacing indoor control p.c. board in group control, indoor control p.c. board of address "0" may be abnormal.</p>
E5	<p>Remote controller transmitting error</p> <p>① Abnormal if indoor control p.c. board cannot check the blank of transmission path for three minutes.</p> <p>② Abnormal if indoor control p.c. board cannot finish transmitting 30 times consecutively.</p>	<p>① Defective transmitting receiving circuit of indoor control p.c. board</p> <p>② Noise has entered into the transmission wire of remote controller.</p>	<p>①② Put the power off, and on again to check. If abnormality generates again, replace indoor control p.c. board.</p>
E6 (E5)	<p>Indoor/outdoor unit communication error (Signal receiving error)</p> <p>① Abnormal if indoor control p.c. board cannot receive any signal normally for six minutes after putting the power on.</p> <p>② Abnormal if indoor control p.c. board cannot receive any signal normally for three minutes.</p> <p>③ Consider the unit abnormal under the following condition: When two or more indoor units are connected to one outdoor unit, indoor control p.c. board cannot receive a signal for three minutes from outdoor control p.c. board, a signal which allows outdoor controller board to transmit signals.</p>	<p>① Contact failure, short circuit or, mis-wiring (converse wiring) of indoor/outdoor unit connecting wire</p> <p>② Defective transmitting receiving circuit of indoor control p.c. board</p> <p>③ Defective transmitting receiving circuit of indoor control p.c. board</p> <p>④ Noise has entered into indoor/outdoor unit connecting wire.</p>	<p>* Check LED display on outdoor control p.c. board. Refer to EA-EC item (on outdoor unit section) if LED displays EA-EC.</p> <p>① Check disconnection or looseness of indoor/outdoor unit connecting wire of indoor unit or outdoor unit. Check all the units in case of twin triple indoor unit system.</p> <p>②-④ Put the power off, and on again to check. If abnormality generates again, replace indoor control p.c. board or outdoor control p.c. board.</p> <p>* Other indoor control p.c. board may have defective in case of twin triple indoor unit system.</p>
E7	<p>Indoor/outdoor unit communication error (Transmitting error)</p> <p>Abnormal if "1" receiving is detected 30 times continuously though indoor control p.c. board has transmitted "0".</p>	<p>① Defective transmitting receiving circuit of indoor control p.c. board</p> <p>② Noise has entered into power supply.</p> <p>③ Noise has entered into outdoor control wire.</p>	<p>①-③ Put the power off, and on again to check. If abnormality generates again, replace indoor control p.c. board.</p>



8-3. TROUBLESHOOTING BY INFERIOR PHENOMENA

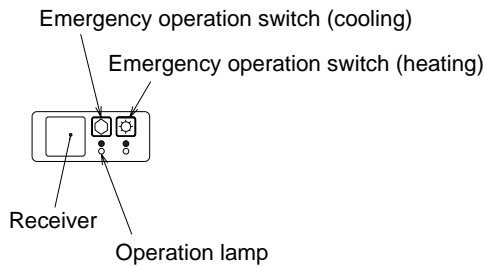
Note: Refer to the manual of outdoor unit for the detail of remote controller.

Phenomena	Factor	Countermeasure
(1)LED2 on indoor control p.c. board is off.	<ul style="list-style-type: none"> When LED1 on indoor control p.c. board is also off. <p>① Power supply of 220~240V is not supplied to outdoor unit.</p> <p>② Defective outdoor control p.c. board</p> <p>③ Power supply of 220~240V is not supplied to indoor unit.</p> <p>④ Defective indoor power board</p> <p>⑤ Defective indoor control p.c. board</p>	<p>① Check the voltage of outdoor power supply terminal block (L, N)</p> <ul style="list-style-type: none"> 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). <p>② Check the voltage between outdoor terminal block S1 and S2.</p> <ul style="list-style-type: none"> When AC 220~240V is not detected. Check the fuse on outdoor control p.c. board (10A). Check the wiring connection. When AC 220~240V is detected. —Check ③ (below). <p>③ Check the voltage between indoor terminal block S1 and S2.</p> <ul style="list-style-type: none"> 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). <p>④ Check voltage output from CN2S on indoor power board (DC14V).</p> <ul style="list-style-type: none"> When no voltage is output. Check the fuse on power board. Check the wiring connection. When output voltage is between 12.6V and 16V. —Check ⑤ (below). <p>⑤ Check the wiring connection between indoor control p.c. board and power board. If no problems are found, indoor control p.c. board is defective.</p>
	<ul style="list-style-type: none"> When LED1 on indoor control p.c. board is lit. <p>① Mis-setting of refrigerant address for outdoor unit (There is no unit corresponding to refrigerant address "0".)</p>	<p>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 control p.c. board.</p>
(2)LED2 on indoor control p.c. board is blinking.	<ul style="list-style-type: none"> When LED1 on indoor control p.c. board is also blinking. Connection failure of indoor/outdoor unit connecting wire When LED1 is lit. Mis-wiring of remote controller wires Under twin triple indoor unit system, 2 or more indoor units are wired together. <p>① Refrigerant address for outdoor unit is wrong or not set. Under grouping control system, there are some units whose refrigerant address is 0.</p> <p>② Short-cut of remote controller wires</p> <p>③ Defective remote controller</p>	<p>Check indoor/outdoor unit connecting wire for connection failure. Check the connection of remote controller 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.</p> <p>① 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 control p.c. board.</p> <p>②③ Remove remote controller wires and check LED2 on indoor control p.c. board.</p> <ul style="list-style-type: none"> 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	<p>① The vane is not downward during defrosting and heat preparation and when the thermostat is OFF in HEAT mode. (Working of COOL protection function)</p> <p>② Vane motor does not rotate.</p> <ul style="list-style-type: none"> Defective vane motor Breaking of wire or connection failure of connector <p>③ Upward/downward vane does not work.</p> <ul style="list-style-type: none"> The vane is set to fixed position. 	<p>① Normal operation (The vane is set to horizontal regardless of remote control.)</p> <p>② Check ② (left).</p> <ul style="list-style-type: none"> Check the vane motor. (Refer to "How to check the parts".) Check for breaking of wire or connection failure of connector. <p>③ Normal operation (Each connector on vane motor side is disconnected.)</p>

8-4. EMERGENCY OPERATION

8-4-1. When wireless remote controller troubles or its battery is exhausted

- Emergency operation is available in such a case using emergency operation switch equipped next to the receiver of indoor unit.
 - To start operation
 - Cooling Operation.....Press  (Cooling) switch.
 - Heating Operation.....Press  (Heating) switch.
- ※When the unit starts operating, the operation lamp is lit.



※Emergency operation will be performed as follows.

Mode	Cooling	Heating
Set temperature	24℃	24℃
Fan speed	High	High
Airflow direction	Horizontal (30deg)	Downward (70deg)

- To stop operation
 - Press either emergency operation switch (cooling/heating).

8-4-2. When wired remote controller or indoor unit micro computer troubles

- If there is not any other wrong when trouble occurs, emergency operation starts as the indoor control 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
- When emergency operating for COOL or HEAT, setting of the switch (SWE) in the indoor control p.c.board and outdoor unit emergency operation are necessary.
- Check items and notices as the emergency operation
 - 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)
 - 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.
 - Do not operate for a long time as cold air is blown when the outdoor unit starts defrosting operation during heat emergency operation.
 - Cool emergency operation must be within 10 hours at most. It may cause heat exchanger frosting in the indoor unit.
 - After completing the emergency operation, return the switch setting, etc. in former state.
 - Since vane does not work at emergency operation, position the vane manually and slowly.

8-5. TEST POINT DIAGRAM

8-5-1. Power board

PLA-RP3AA.UK

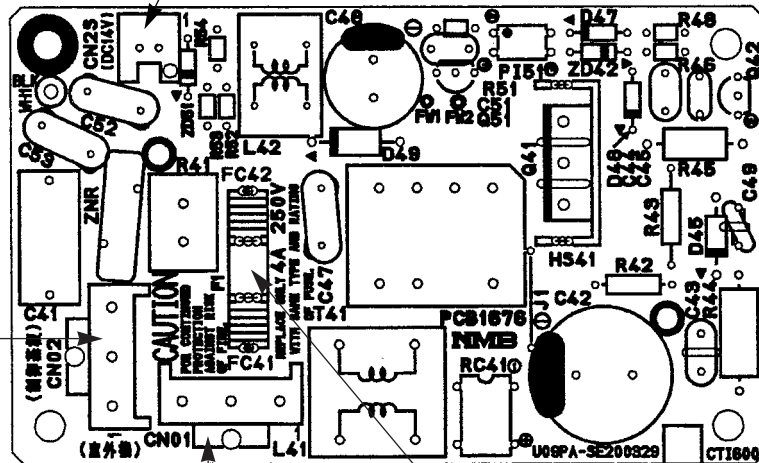
PLA-RP4AA.UK

PLA-RP5AA.UK

PLA-RP6AA.UK

CN2S
Connect to the Indoor controller
board (CN2D)
(DC12.6~15.4V)

CN02
Connect to the Indoor
controller board (CN03)
Between ① and ② DC 0~24V
(Indoor/Outdoor transmission)
Between ② and ③
AC 220~240V



Fuse 4A/250V

CN01
Connect to the Terminal Block (TB4)
(Indoor/outdoor connecting line)
Between ① and ② AC 220~240V
Between ② and ③ DC 0~24V
(Indoor/outdoor transmission)

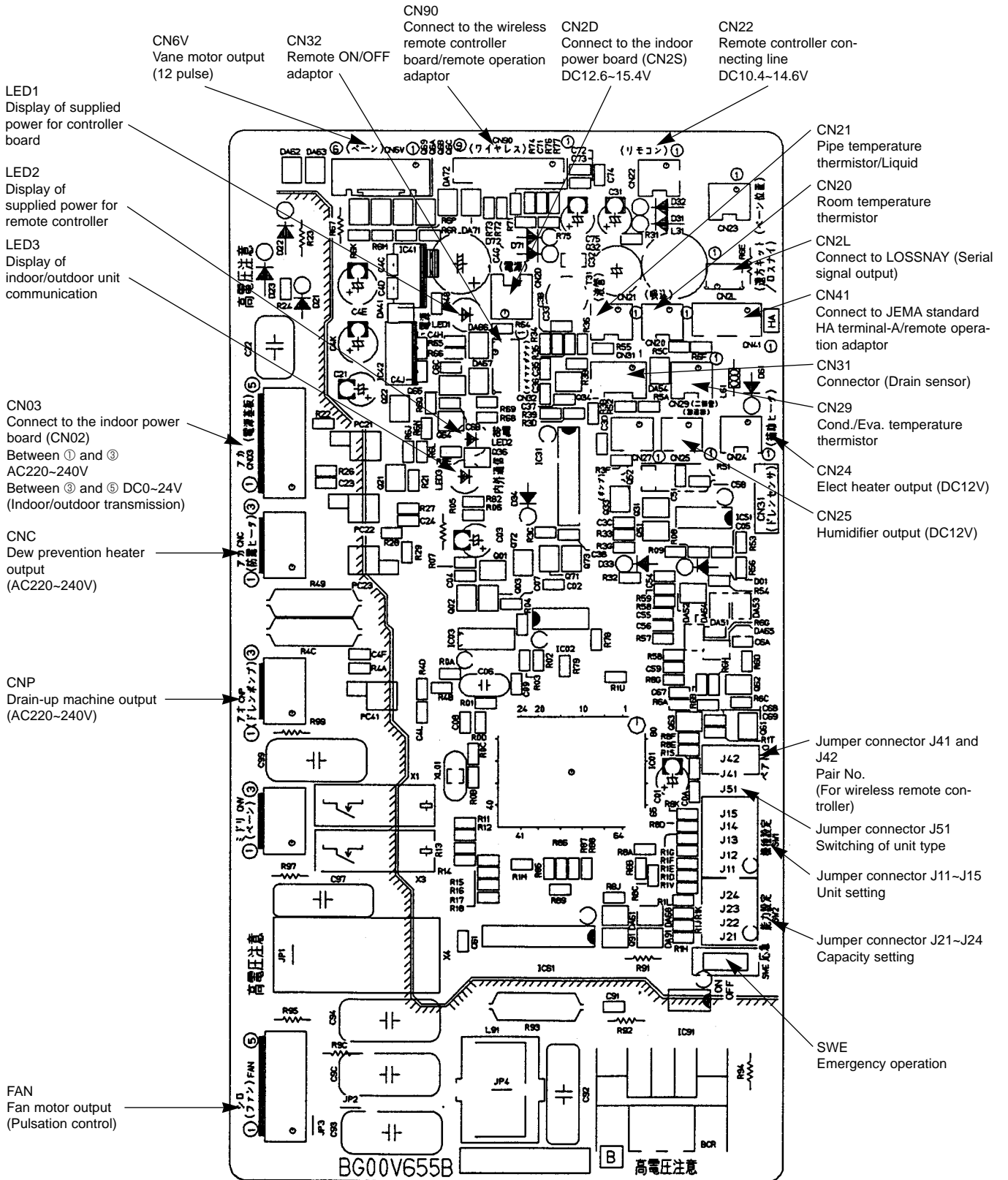
8-5-2. Controller board

PLA-RP3AA.UK

PLA-RP4AA.UK

PLA-RP5AA.UK

PLA-RP6AA.UK



8-6. FUNCTIONS OF JUMPER WIRE

Each function is controlled by the jumper wire on control p.c. board. For service parts, J11- J15 and J21-J24, DIP switches (SW1 and SW2) are equipped with jumper wire.

(Marks in the table below) Jumper wire (○ : Short × : Open)
DIP switch (○ : ON × : OFF)

Jumper wire	Functions	Open/short of jumper wire	Remarks																									
J11~J15 (SW1)	Model settings	Models : PLA-RP3~6 <table border="1"> <thead> <tr> <th></th> <th>J11</th> <th>J12</th> <th>J13</th> <th>J14</th> <th>J15</th> </tr> </thead> <tbody> <tr> <td>Heater-less</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> <td>×</td> </tr> </tbody> </table>		J11	J12	J13	J14	J15	Heater-less	○	○	○	○	×														
	J11	J12	J13	J14	J15																							
Heater-less	○	○	○	○	×																							
J21~J24 (SW2)	Capacity settings	<table border="1"> <thead> <tr> <th>Models</th> <th>J21</th> <th>J22</th> <th>J23</th> <th>J24</th> </tr> </thead> <tbody> <tr> <td>RP3</td> <td>○</td> <td>×</td> <td>×</td> <td>○</td> </tr> <tr> <td>RP4</td> <td>×</td> <td>×</td> <td>○</td> <td>○</td> </tr> <tr> <td>RP5</td> <td>×</td> <td>○</td> <td>○</td> <td>○</td> </tr> <tr> <td>RP6</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> </tr> </tbody> </table>	Models	J21	J22	J23	J24	RP3	○	×	×	○	RP4	×	×	○	○	RP5	×	○	○	○	RP6	○	○	○	○	
Models	J21	J22	J23	J24																								
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RP4	×	×	○	○																								
RP5	×	○	○	○																								
RP6	○	○	○	○																								
J41 J42	Pair number setting with wireless remote controller	<table border="1"> <thead> <tr> <th rowspan="2">Wireless remote controller setting</th> <th colspan="2">Control PCB setting</th> </tr> <tr> <th>J41</th> <th>J42</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>○</td> <td>○</td> </tr> <tr> <td>1</td> <td>×</td> <td>○</td> </tr> <tr> <td>2</td> <td>○</td> <td>×</td> </tr> <tr> <td>3 ~ 9</td> <td>×</td> <td>×</td> </tr> </tbody> </table>	Wireless remote controller setting	Control PCB setting		J41	J42	0	○	○	1	×	○	2	○	×	3 ~ 9	×	×	<Settings at time of factory shipment> 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 disconnected.)								
Wireless remote controller setting	Control PCB setting																											
	J41	J42																										
0	○	○																										
1	×	○																										
2	○	×																										
3 ~ 9	×	×																										

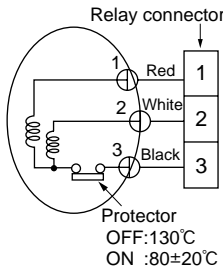
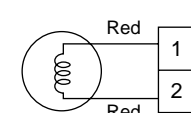
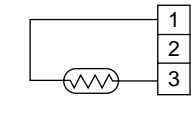
8-7. HOW TO CHECK THE PARTS

PLA-RP3AA.UK

PLA-RP4AA.UK

PLA-RP5AA.UK

PLA-RP6AA.UK

Parts name	Check points													
Room temperature thermistor (TH1) Pipe temperature thermistor (TH2) Condenser/Evaporator temperature thermistor (TH5)	Disconnect the connector then measure the resistance using a tester. (Surrounding temperature 10°C ~30°C) <table border="1" style="margin-left: 20px;"> <tr> <td>Normal</td> <td>Abnormal</td> <td rowspan="2" style="vertical-align: middle;">(Refer to the thermistor)</td> </tr> <tr> <td>4.3kΩ~9.6kΩ</td> <td>Open or short</td> </tr> </table>	Normal	Abnormal	(Refer to the thermistor)	4.3kΩ~9.6kΩ	Open or short								
Normal	Abnormal	(Refer to the thermistor)												
4.3kΩ~9.6kΩ	Open or short													
Vane motor	Measure the resistance between the terminals using a tester. (Surrounding temperature 20°C) <table border="1" style="margin-left: 20px;"> <tr> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>15kΩ</td> <td>Open or short</td> </tr> </table>	Normal	Abnormal	15kΩ	Open or short									
Normal	Abnormal													
15kΩ	Open or short													
Fan motor 	Measure the resistance between the terminals using a tester. (Winding temperature 20°C) <table border="1" style="margin-left: 20px;"> <thead> <tr> <th rowspan="2">Motor terminal or Relay connector</th> <th colspan="2">Normal</th> <th rowspan="2">Abnormal</th> </tr> <tr> <th>PLA-RP3AA.UK</th> <th>PLA-RP4,5,6AA.UK</th> </tr> </thead> <tbody> <tr> <td>Red-Black</td> <td>87.2Ω</td> <td>28.7Ω</td> <td rowspan="2">Open or short</td> </tr> <tr> <td>White-Black</td> <td>104.1Ω</td> <td>41.6Ω</td> </tr> </tbody> </table>	Motor terminal or Relay connector	Normal		Abnormal	PLA-RP3AA.UK	PLA-RP4,5,6AA.UK	Red-Black	87.2Ω	28.7Ω	Open or short	White-Black	104.1Ω	41.6Ω
Motor terminal or Relay connector	Normal		Abnormal											
	PLA-RP3AA.UK	PLA-RP4,5,6AA.UK												
Red-Black	87.2Ω	28.7Ω	Open or short											
White-Black	104.1Ω	41.6Ω												
Drain pump 	Measure the resistance between the terminals using a tester. (Winding temperature 20°C) <table border="1" style="margin-left: 20px;"> <tr> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>290Ω</td> <td>Open or short</td> </tr> </table>	Normal	Abnormal	290Ω	Open or short									
Normal	Abnormal													
290Ω	Open or short													
Drain sensor 	Measure the resistance between the terminals using a tester. Measure the resistance after 3 minutes have passed since the power supply was intercepted. (Surrounding temperature 0°C ~60°C) <table border="1" style="margin-left: 20px;"> <tr> <td>Normal</td> <td>Abnormal</td> <td rowspan="2" style="vertical-align: middle;">(Refer to the thermistor)</td> </tr> <tr> <td>0.6kΩ~6.0kΩ</td> <td>Open or short</td> </tr> </table>	Normal	Abnormal	(Refer to the thermistor)	0.6kΩ~6.0kΩ	Open or short								
Normal	Abnormal	(Refer to the thermistor)												
0.6kΩ~6.0kΩ	Open or short													

<Thermistor Characteristic graph>

Thermistor for lower temperature

Room temperature thermistor (TH1)
 Pipe temperature thermistor (TH2)
 Condenser/evaporator temperature thermistor (TH5)

Thermistor $R_0=15k\Omega \pm 3\%$

Fixed number of $B=3480k\Omega \pm 2\%$

$$R_t = 15 \exp \left\{ 3480 \left(\frac{1}{273+t} - \frac{1}{273} \right) \right\}$$

0°C	15kΩ
10°C	9.6kΩ
20°C	6.3kΩ
25°C	5.2kΩ
30°C	4.3kΩ
40°C	3.0kΩ

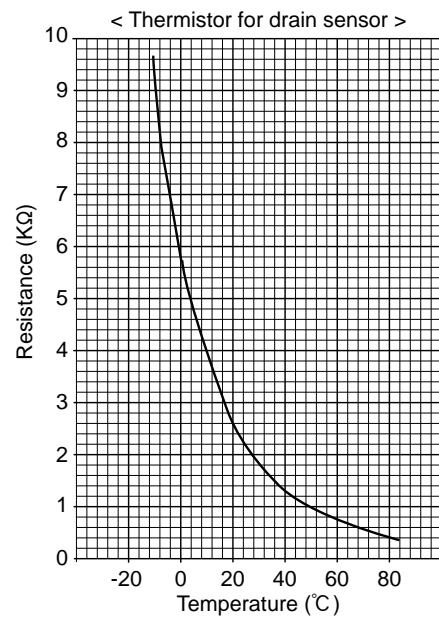
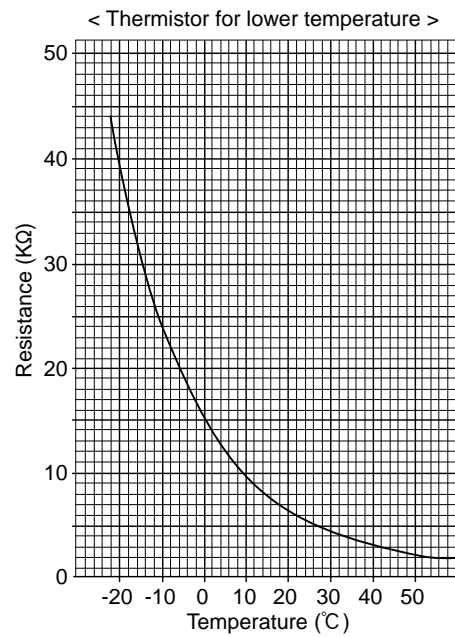
Thermistor for drain sensor

Thermistor $R_0=6.0k\Omega \pm 5\%$

Fixed number of $B=3390k\Omega \pm 2\%$

$$R_t = 6 \exp \left\{ 3390 \left(\frac{1}{273+t} - \frac{1}{273} \right) \right\}$$

0°C	6.0kΩ
10°C	3.9kΩ
20°C	2.6kΩ
25°C	2.2kΩ
30°C	1.8kΩ
40°C	1.3kΩ

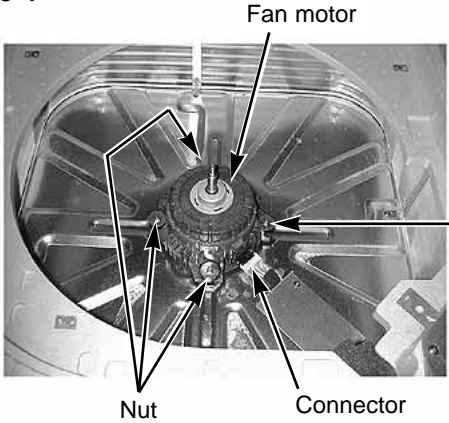
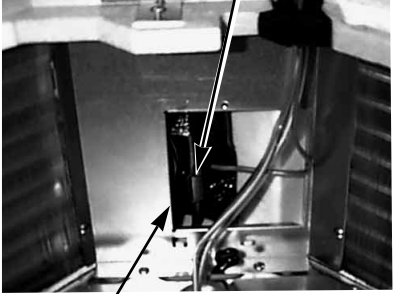
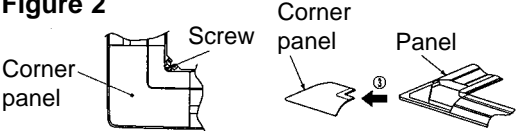
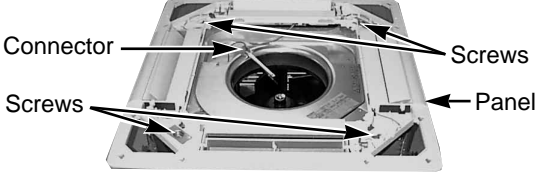
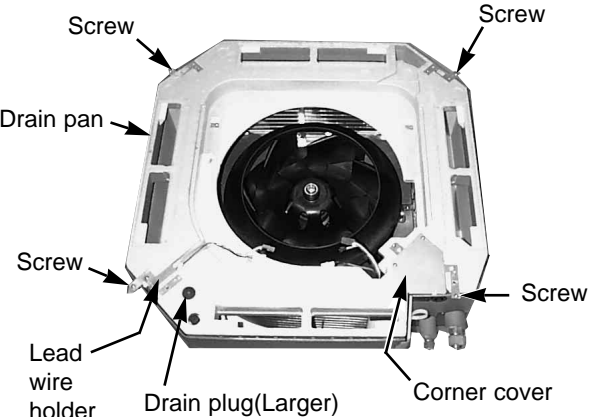


PLA-RP3AA.UK, PLA-RP4AA.UK
PLA-RP5AA.UK, PLA-RP6AA.UK

Be careful on removing heavy parts.

OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
<p>1. Removing the air intake grille</p> <ol style="list-style-type: none"> (1) Slide the knob of air intake grille toward the arrow ① to open the air intake grille. (2) Remove drop prevention hook from the panel. (3) Slide the shaft in the hinge to the direction of the arrow ② and remove the air intake grille. 	<p>Figure 1</p> <p>Air intake grille Air intake grille knob Grille</p>
<p>2. Removing the fan guard</p> <ol style="list-style-type: none"> (1) Open the air intake grille. (2) Remove the 3 screws of fan guard. 	<p>Photo 1</p> <p>Fan guard Screws Air intake grille</p>
<p>3. Removing the room temperature thermistor</p> <ol style="list-style-type: none"> (1) Remove the fan guard. (See photo 1) (2) Remove the screw in the room temperature thermistor holder to remove the holder and the room temperature thermistor. (3) Remove the 1 screw from the bell mouth, and unscrew the other 2 screws (fix to the oval hole which has a different diameter) to remove the bell mouth. (4) Remove the holder claw, and remove the room temperature thermistor and holder. (5) Disconnect the connector (red) from the indoor control board. 	<p>Photo 2</p> <p>Bell mouth Screws Room temperature thermistor Air intake grille</p>
<p>4. Removing the electrical box</p> <ol style="list-style-type: none"> (1) Remove the fan guard. (See photo 1) (2) Disconnect the lead wire of the vane motor from the clamp, and disconnect the white connector (10P). (3) Remove the room temperature thermistor with the holder. (4) Remove the bell mouth. (See photo 2) (5) Disconnect the relay connector in the electrical box. Red (3P) for fan motor power supply White (2P) for pipe temperature detecting thermistor Black (2P) for condenser/evaporator pipe temperature detecting thermistor Blue (2P) for drain pump White (3P) for drain sensor (6) Remove the 3 screws of the electrical box and loosen the other 2 screws to remove the box. <p><Electrical parts in the electrical box></p> <ul style="list-style-type: none"> Indoor controller board Power supply board Terminal block Capacitor 	<p>Photo 3</p> <p>Electrical box Power supply board Turbo fan Indoor controller board Connector Terminal block Capacitor Nut</p>



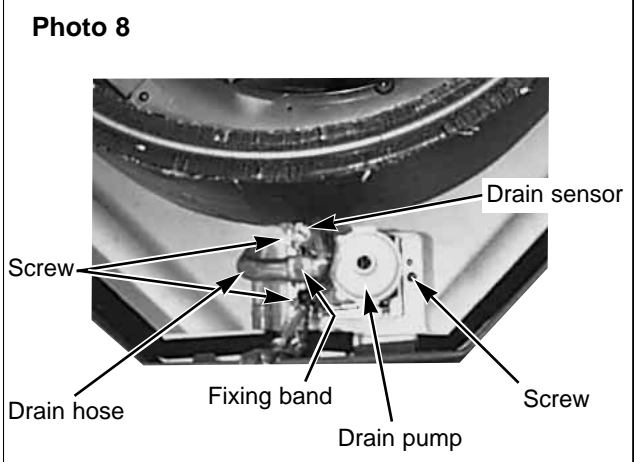
OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
<p>5. Remove the fan motor</p> <ol style="list-style-type: none"> (1) Remove the fan guard.(See photo 1) (2) Remove the bell mouth.(See photo 2) (3) Remove the electrical box.(See photo 3) (4) Remove the turbo fan nut. (5) Pull out the turbo fan. (6) Disconnect the connector of the fan motor lead wire. (7) Remove the 4 nuts of the fan motor. 	<p>Photo 4</p>  <p>Fan motor</p> <p>Nut</p> <p>Connector</p>
<p>6. Removing the pipe temperature thermistor and condenser evaporator temperature thermistor</p> <ol style="list-style-type: none"> (1) Remove the fan guard.(See photo 1) (2) Remove the bell mouth.(See photo 2) (3) Remove the electrical box.(See photo 3) (4) Remove the turbo fan. (5) Remove the screw of the service panel. (6) Remove the service panel. (7) Remove the pipe temperature thermistor which is inserted into the holder installed to the thin copper pipe. (8) Disconnect the 2-pin white connector. 	<p>Photo 5</p>  <p>Pipe temperature thermistor</p> <p>Service access</p>
<p>7. Removing the panel</p> <ol style="list-style-type: none"> (1) Remove the air intake grille.(See figure 1) <p>Corner panel (See figure 2)</p> <ol style="list-style-type: none"> (1) Remove the corner screw. (2) Slide the corner panel to the direction of the arrow③, and remove the corner panel. <p>Panel (See photo 6)</p> <ol style="list-style-type: none"> (1) Disconnect the connector that connects with the unit. (2) Remove the 2 screws from the panel and loosen another 2 screws, which fix to the oval holes, have different diameters. (3) Rotate the panel a little to remove the panel. 	<p>Figure 2</p>  <p>Screw</p> <p>Corner panel</p> <p>Panel</p> <p>Photo 6</p>  <p>Connector</p> <p>Screws</p> <p>Screws</p> <p>Panel</p>
<p>8. Removing the drain pan</p> <ol style="list-style-type: none"> (1) Remove the panel. (See photo 6) (2) Remove the drain plug (Larger one), drain the remaining water in the drain pan. (3) Remove the corner cover. (2 screws) (4) Remove the bell mouth (See photo 2) (5) Remove the electrical box. (See photo 3) (6) Remove the lead wire holder. (1 screw) (7) Remove the 4 screws and pull out the drain pan. <p>* Pull out the left and right of the pan gradually. Be careful not to crack or damage the pan.</p>	<p>Photo 7</p>  <p>Screw</p> <p>Screw</p> <p>Drain pan</p> <p>Screw</p> <p>Screw</p> <p>Lead wire holder</p> <p>Drain plug(Larger)</p> <p>Corner cover</p>



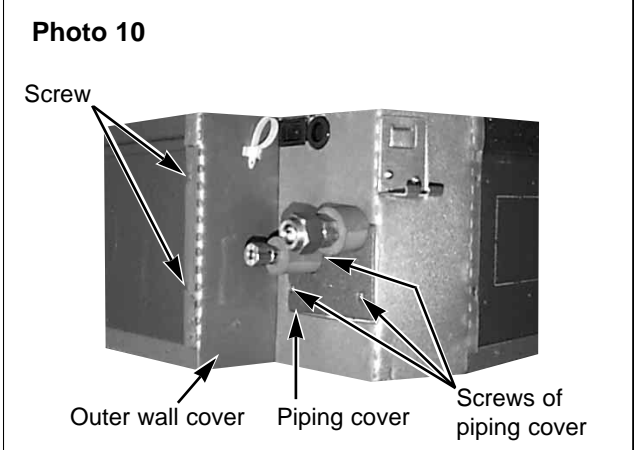
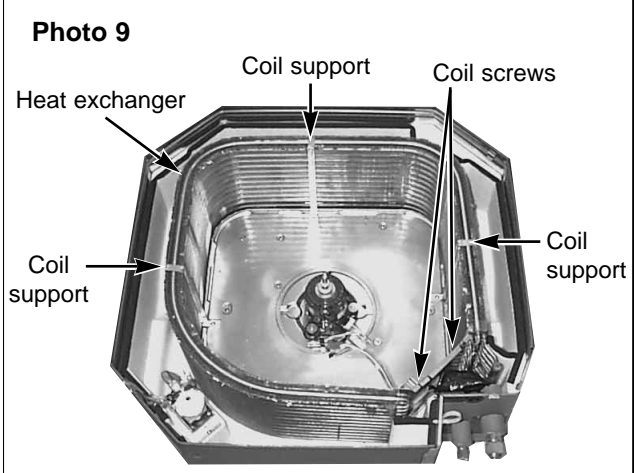
OPERATING PROCEDURE

PHOTOS & ILLUSTRATIONS

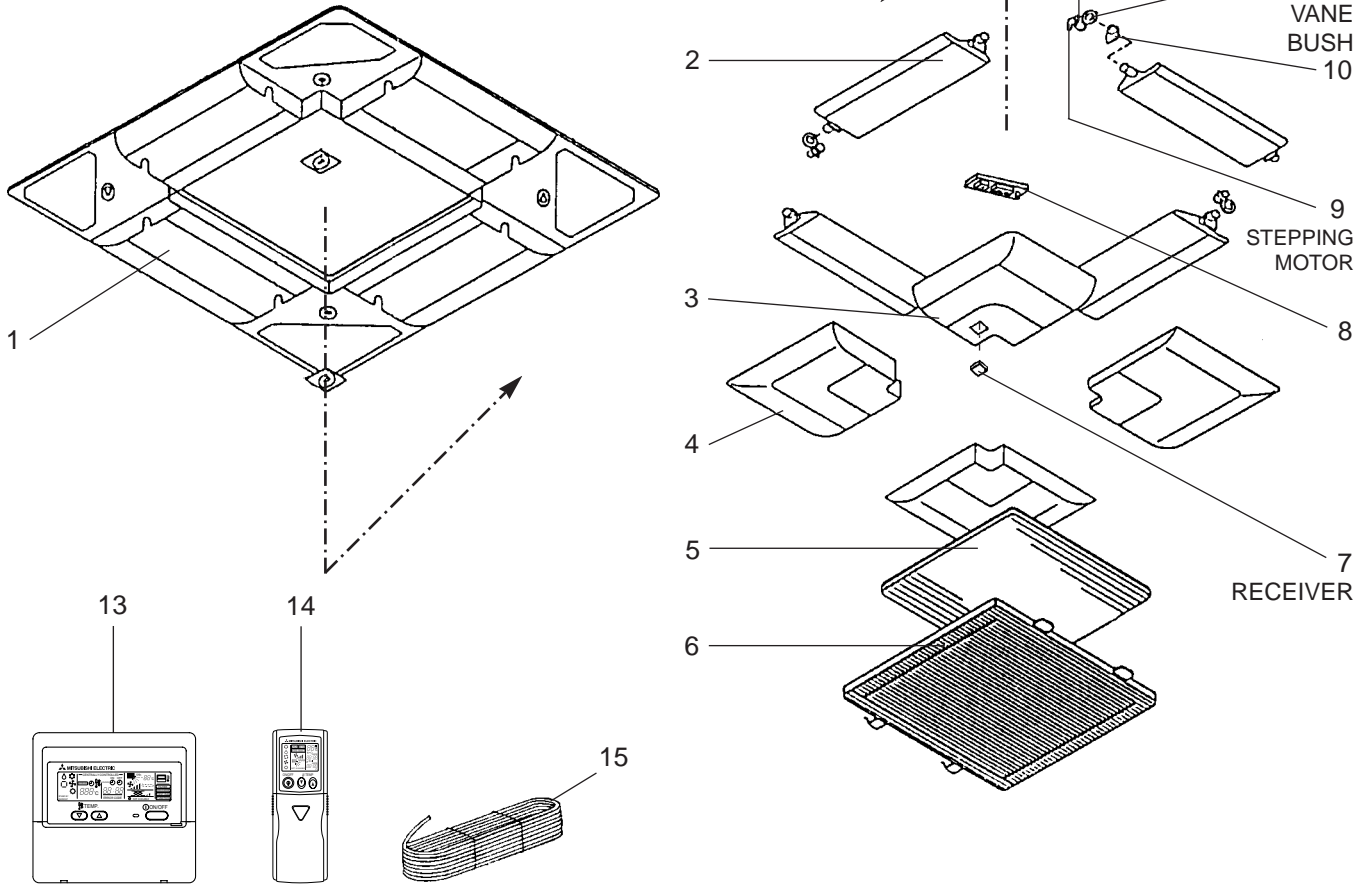
- 9. Removing the drain pump and drain sensor**
- (1) Remove the panel. (See photo 6)
 - (2) Remove the fan guard. (See photo 1)
 - (3) Remove the bell mouth. (See photo 2)
 - (4) Remove the electrical box. (See photo 3)
 - (5) Remove the drain pan. (See photo 7)
 - (6) Remove the 3 screws of the drain pump.
 - (7) Cut the drain hose band, pull out the drain hose from the drain pump.
 - (8) Pull out the drain pump.
 - (9) Remove the drain sensor and the holder.



- 10. Removing the heat exchanger**
- (1) Remove the panel. (See photo 6)
 - (2) Remove the fan guard. (See photo 1)
 - (3) Remove the bell mouth. (See photo 2)
 - (4) Remove the electrical box. (See photo 3)
 - (5) Remove the drain pan. (See photo 7)
 - (6) Remove the turbo fan. (See photo 4)
 - (7) Remove the 3 screws of the piping cover, and pull out piping cover.
 - (8) Remove the 4 screws of the outer wall cover, and pull out the outer wall cover.
 - (9) Remove the screw of the coil support.
 - (10) Remove the 2 screws of the coil.
 - (11) Pull out the heat exchanger.

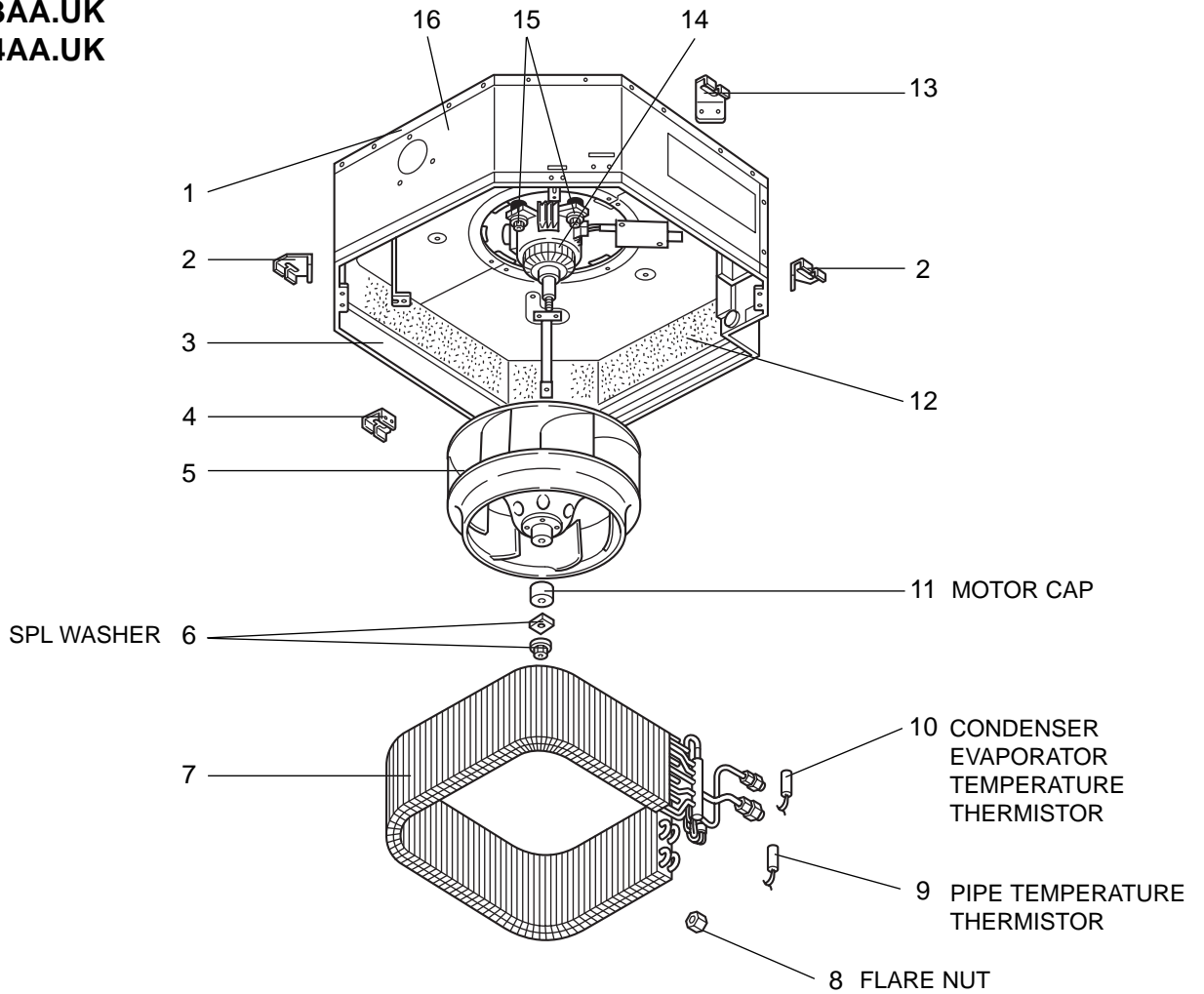


PANEL PARTS
 PLA-RP3AA.UK
 PLA-RP4AA.UK
 PLA-RP5AA.UK
 PLA-RP6AA.UK



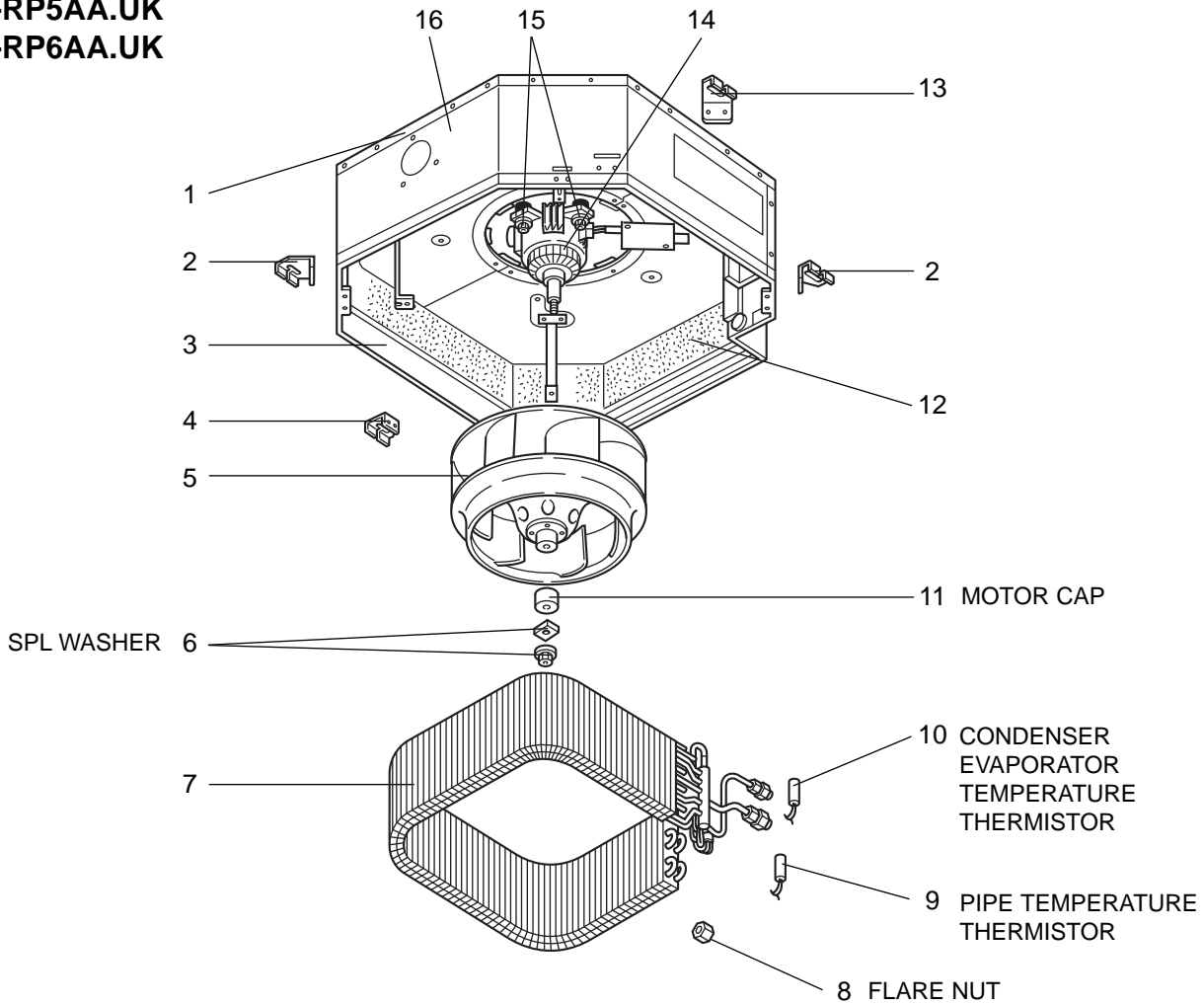
No.	Parts No.	Parts Name	Specifi- cation	Q'ty / set		Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PLA-RP3/4/5/6 AA.UK					Unit	Amount
				WIRED	WIRELESS					
1	S70 E10 003	AIR OUTLET GRILLE		1	1					
2	S70 E01 002	VANE ASSY		4	4					
3	S70 E01 638	CORNER PANEL		1	2					
4	S70 E00 638	CORNER PANEL		3	2					
5	S70 E00 500	L.L FILTER-A		1	1					
6	S70 E00 691	GRILLE ASSY		1	1					
7	S70 24K 658	RECEVER			1		RU			
8	S70 E00 317	WIRELESS ADAPTER			1		W.B			
9	S70 E00 223	STEPPING MOTOR		4	4		MV			
10	S70 E00 063	VANE BUSH		8	8					
11	S70 E00 040	GEAR (VANE)		4	4					
12	S70 E01 040	GEAR		4	4					
13	S70 E13 713	REMOTE CONTROLLER ASSY	PAR-20MAA-E	1			R.B			
14	S70 E15 714	WIRELESS REMOTE CONTROLLER ASSY	PAR-SL97A-E		1					
15	S70 58A 246	CORD		1	1					

FUNCTIONAL PARTS
PLA-RP3AA.UK
PLA-RP4AA.UK



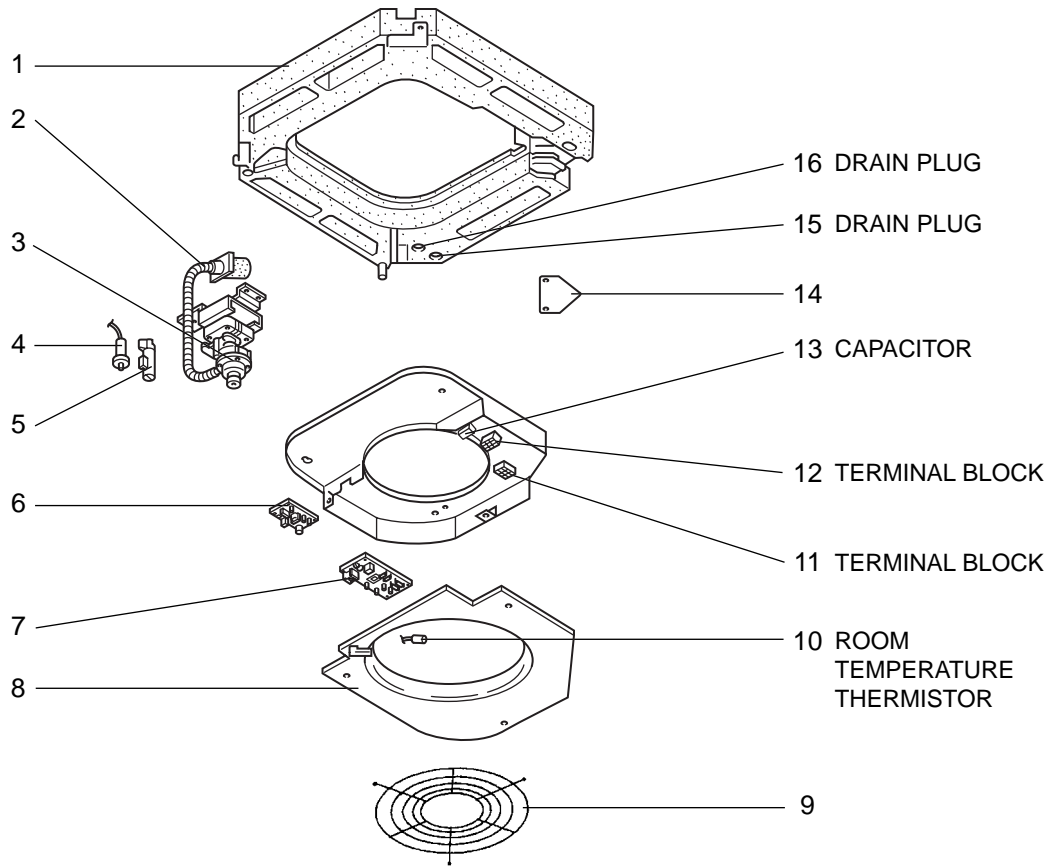
No.	Parts No.	Parts Name	Specifi- cation	Q'ty / set		Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PLA-RP3 AA.UK	PLA-RP4 AA.UK				Unit	Amount
1	S70 003 687	BASE		1	1					
2	S70 E01 130	LEG		2	2					
3	S70 005 688	DRUM 1 ASSY		1						
	S70 007 688	DRUM 1 ASSY			1					
4	S70 E00 130	LEG		1	1					
5	S70 E00 114	TURBO FAN		1						
	S70 E01 114	TURBO FAN			1					
6	S70 08K 097	SPL WASHER		1	1					
7	S70 E40 480	HEAT EXCHANGER		1						
	S70 E41 480	HEAT EXCHANGER			1					
8	S70 E50 097	FLARE NUT			1					
9	S70 17J 202	PIPE TEMPERATURE THERMISTOR		1	1		TH2			
10	S70 E20 202	CONDENSER EVAPORATOR TEMPERATURE THERMISTOR		1	1		TH5			
11	S70 E50 129	MOTOR CAP		1	1					
12	S70 E00 659	INNER COVER		1						
	S70 E02 659	INNER COVER			1					
13	S70 E02 130	LEG		1	1					
14	S70 E06 762	FAN MOTOR	D17B6P70MS	1			MF			
	S70 E07 762	FAN MOTOR	D176P120MS		1		MF			
15	S70 A41 105	MOTOR MOUNT		4	4					
16	S70 006 688	DRUM 2 ASSY		1						
	S70 008 688	DRUM 2 ASSY			1					

FUNCTIONAL PARTS
PLA-RP5AA.UK
PLA-RP6AA.UK



No.	Parts No.	Parts Name	Specifi- cation	Q'ty / set		Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PLA-RP5 AA.UK	PLA-RP6 AA.UK				Unit	Amount
1	S70 003 687	BASE		1	1					
2	S70 E01 130	LEG		2	2					
3	S70 007 688	DRUM 1 ASSY		1	1					
4	S70 E00 130	LEG		1	1					
5	S70 E01 114	TURBO FAN		1	1					
6	S70 08K 097	SPL WASHER		1	1					
7	S70 E42 480	HEAT EXCHANGER		1	1					
8	S70 E50 097	FLARE NUT		1	1					
9	S70 17J 202	PIPE TEMPERATURE THERMISTOR		1	1		TH2			
10	S70 E20 202	CONDENSER EVAPORATOR TEMPERATURE THERMISTOR		1	1		TH5			
11	S70 E50 129	MOTOR CAP		1	1					
12	S70 E02 659	INNER COVER		1	1					
13	S70 E02 130	LEG		1	1					
14	S70 E07 762	FAN MOTOR	D176P120MS	1	1		MF			
15	S70 A41 105	MOTOR MOUNT		4	4					
16	S70 008 688	DRUM 2 ASSY		1	1					

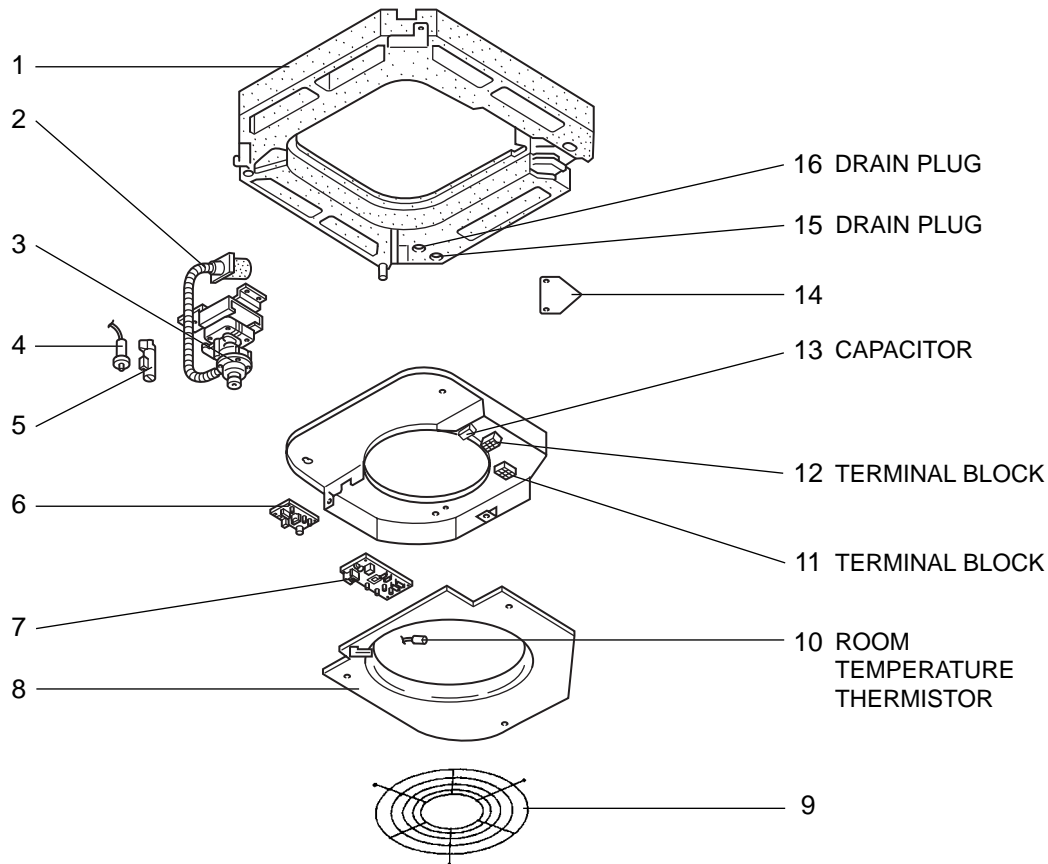
FUNCTIONAL PARTS
PLA-RP3AA.UK
PLA-RP4AA.UK



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

No.	Parts No.	Parts Name	Specifi- cation	Q'ty / set		Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PLA-RP3	PLA-RP4				Unit	Amount
				AA.UK	AA.UK					
1	S70 E02 529	DRAIN PAN		1						
	S70 E00 529	DRAIN PAN			1					
2	S70 29H 523	DRAIN SOCKET		1	1					
3	S70 E02 355	DRAIN PUMP		1	1		DP			
4	S70 E00 266	DRAIN SENSOR		1	1		DS			
5	S70 31K 241	DRAIN SENSOR HOLDER		1	1					
6	S70 E02 313	POWER BOARD		1	1		P.B			
7	S70 R03 310	INDOOR CONTROLLER BOARD		1	1		I.B			
8	S70 003 503	CONTROL COVER ASSY		1	1					
9	S70 E10 675	FAN GUARD		1	1					
10	S70 E00 202	ROOM TEMPERATURE THERMISTOR		1	1		TH1			
11	S70 512 716	TERMINAL BLOCK	2P (1, 2)	1	1		TB5			
12	S70 E01 716	TERMINAL BLOCK	3P (S1, S2, S3)	1	1		TB4			
13	S70 17T 255	CAPACITOR	3.5 μ F 440V	1			C			
	S70 E02 255	CAPACITOR	7.0 μ F 440V		1		C			
14	S70 001 663	CORNER COVER		1	1					
15	S70 A48 524	DRAIN PLUG		1	1					
16	S70 A41 524	DRAIN PLUG		1	1					
17	S70 A41 523	DRAIN HOSE ASSY		1	1					

FUNCTIONAL PARTS
PLA-RP5AA.UK
PLA-RP6AA.UK



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

No.	Parts No.	Parts Name	Specifi- cation	Q'ty / set		Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PLA-RP5	PLA-RP6				Unit	Amount
				AA.UK	AA.UK					
1	S70 E01 529	DRAIN PAN		1	1					
2	S70 29H 523	DRAIN SOCKET		1	1					
3	S70 E02 355	DRAIN PUMP		1	1		DP			
4	S70 E00 266	DRAIN SENSOR		1	1		DS			
5	S70 31K 241	DRAIN SENSOR HOLDER		1	1					
6	S70 E20 313	POWER BOARD		1	1		P.B			
7	S70 R03 310	INDOOR CONTROLLER BOARD		1	1		I.B			
8	S70 003 503	CONTROL COVER ASSY		1	1					
9	S70 E10 675	FAN GUARD		1	1					
10	S70 E00 202	ROOM TEMPERATURE THERMISTOR		1	1		TH1			
11	S70 512 716	TERMINAL BLOCK	2P (1, 2)	1	1		TB5			
12	S70 E01 716	TERMINAL BLOCK	3P (S1, S2, S3)	1	1		TB4			
13	S70 E02 255	CAPACITOR	7.0 μ F 440V	1	1		C			
14	S70 001 663	CORNER COVER		1	1					
15	S70 A48 524	DRAIN PLUG		1	1					
16	S70 A41 524	DRAIN PLUG		1	1					
17	S70 A41 523	DRAIN HOSE ASSY		1	1					

11-1. TIMER

Part No.	PAC-SC32PTA (with set back function)
Model Name	Program timer

11-1-1. Program timer specifications

Part name	Program timer
Parts No.	PAC-SC32PTA
Exterior dimensions (inch)	5-4/32X4-23/32X23/32 (130X120X18mm)
Installation	Wall mount
Type of clock	Quartz
Clock accuracy	±50 second / month at 25°C
Display-Time	Liquid crystal display
-Week	Liquid crystal display
-Timer setting unit	Liquid crystal display
Program cycle	24 hours
Timer setting unit	30 minutes
No. of set points	48 / day
Power rating	5V DC ±5% (Supplied by Remote Controller)

11-1-2. Feature of program timer

(1) Daily timer function

Daily timer can be set in 30 minutes units for up to 24 hours.

Each unit can be set for unit ON, unit OFF, or setback operation.

(2) Setback operation

Set back operation is useful for reducing running costs

e.g. At a hotel with a 24-hour system

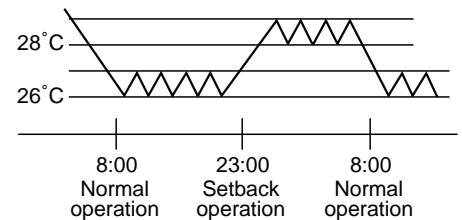
8:00~23:00 Cooling operation with set temperature at 26°C

23:00~8:00 Setback operation with 2 degrees of setback

As shown in the chart on the right, the set temperature rises 2 degrees automatically during the setback operation. When the setback operation ends, normal operation will begin.

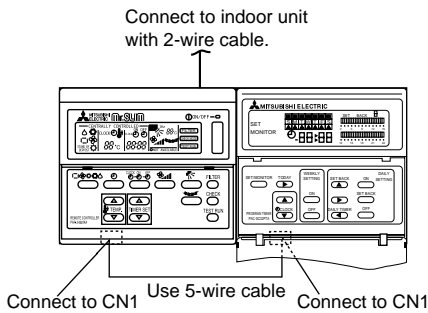
(3) Weekly timer function

Daily timer function can apply to each day of the week.



11-1-3. How to connect program timer

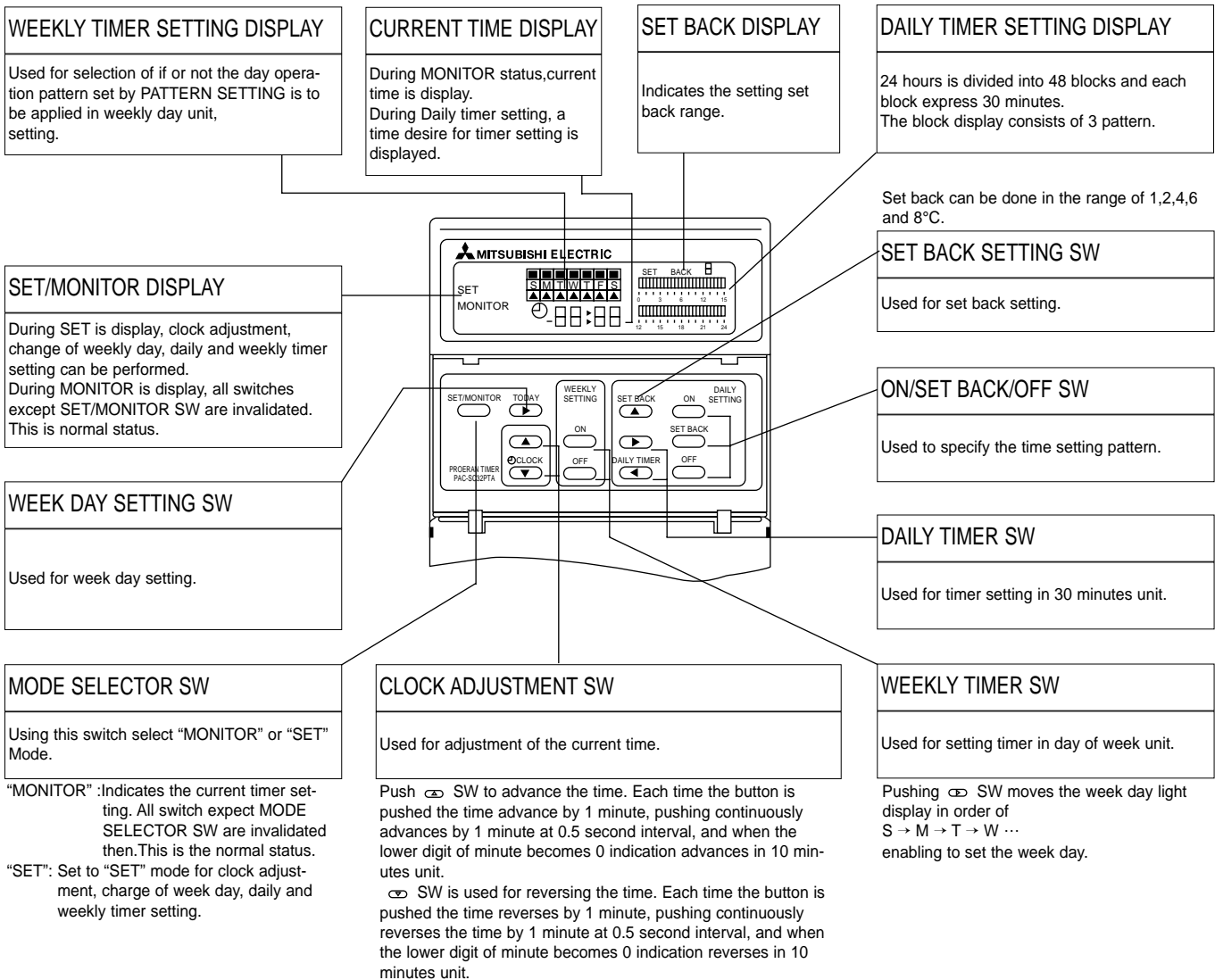
- (1) Install the program timer next to the remote controller the same way as the remote controller is installed.
- (2) Connect the program timer and the remote controller with a 5-wire cable as shown in the figure below



NOTE: While the program timer is connected to the remote controller, the 24hour ON/OFF timer on the remote controller will not operate.

11-1-4. Names and functions

<PAC-SC32PTA>



11-2. MULTI-FUNCTIONAL CASEMENT

Part No.	PAC-SG03TM-E
Applied Service Ref.	PLA-RP3,4,5,6AA.UK

11-3. HIGH-EFFICIENCY FILTER ELEMENT (2. MULTI-FUNCTIONAL CASEMENT is needed.)

Part No.	PAC-SG01KF
Applied Service Ref.	PLA-RP3,4,5,6AA.UK

11-4. GRILLE + WIRELESS REMOTE CONTROLLER

Part No.	PLP-6AALM
Applied Service Ref.	PLA-RP3,4,5,6AA.UK

11-5. GRILLE + WIRED REMOTE CONTROLLER

Part No.	PLP-6AAM
Applied Service Ref.	PLA-RP3,4,5,6AA.UK

11-6. REMOTE SENSOR

Part No.	PAC-SE41TS-E
Applied Service Ref.	PLA-RP3,4,5,6AA.UK

11-7. REMOTE OPERATION ADAPTER

Part No.	PAC-SF40RM-E
Applied Service Ref.	PLA-RP3,4,5,6AA.UK

11-8. REMOTE ON/OFF ADAPTER

Part No.	PAC-SE55RA-E
Applied Service Ref.	PLA-RP3,4,5,6AA.UK

11-9. AIR OUTLET SHUTTER PLATE (20 SET, 2 PCS/SET)

Part No.	PAC-SG06SP-E
Applied Service Ref.	PLA-RP3,4,5,6AA.UK

Mr. SLIM™

 **mitsubishi electric corporation**
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