MITSUBISHI ELECTRIC

Changes for the Better

SPLIT-TYPE, HEAT PUM PAIR CONDITIONERS

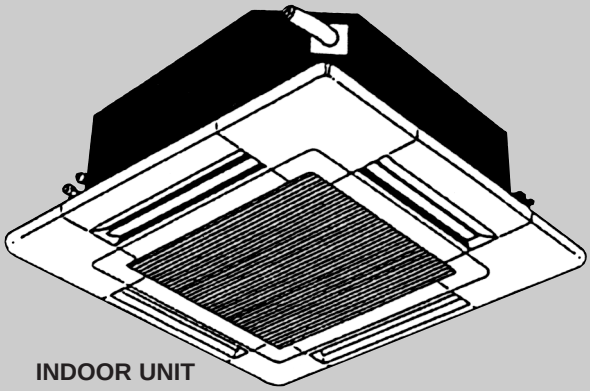
No. OC236
REVISED EDITION-A

TECHNICAL & SERVICE MANUAL

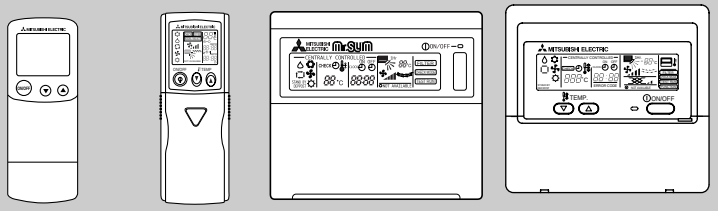
Series PLH Ceiling Cassettes R407C

Indoor unit [Model names]	[Service Ref.]
PLH-P3AAH	PLH-P3AAH.UK
	PLH-P3AAH1.UK
PLH-P4AAH	PLH-P4AAH.UK
	PLH-P4AAH1.UK
PLH-P5AAH	PLH-P5AAH.UK
	PLH-P5AAH1.UK
PLH-P6AAH	PLH-P6AAH.UK
	PLH-P6AAH1.UK

- PLH-P3AAH1.UK, PLH-P4AAH1.UK, PLH-P5AAH1.UK and PLH-P6AAH1 are added in REVISED EDITION-A. Outdoor units PUH-P3,4VGAA.UK and PUH-P3,4,5,6YGAA.UK which are connected to those indoor units are also added in it.
- Please void OC236.
- Refer to the OCT03 REVISED EDITION-C as for control relation. This manual does not cover outdoor units. When serving them, please refer to the service manual No.OC180REVISED EDITION-A, OC261 and this manual in a set.



INDOOR UNIT



PLH-P•AAH.UK PLH-P•AAH1.UK PLH-P•AAH.UK PLH-P•AAH1.UK

WIRELESS REMOTE CONTROLLER

WIRED REMOTE CONTROLLER

CONTENTS

Mr.SLIM™

1 TECHNICAL CHANGES

PLH-P3AAH.UK → PLH-P3AAH$_1$.UK PLH-P4AAH.UK → PLH-P4AAH$_1$.UK
PLH-P5AAH.UK → PLH-P5AAH$_1$.UK PLH-P6AAH.UK → PLH-P6AAH$_1$.UK

- **REMOTE CONTROLLER has changed.(PAR-S27A-E → PAR-20MAA-E, PAR-SL95A-E → PAR-SL97A-E)**
- **Outdoor units which are connected to PLH-P•AAH.UK and PLH-P•AAH$_1$.UK have been added.**

2 COMBINATION OF INDOOR AND OUTDOOR UNITS

	Indoor unit	Outdoor unit										
		Heat pump type										
		PUH-P										
		3				4			5		6	
		VGA	YGA	VGAA.UK	YGAA.UK	YGA	VGAA.UK	YGAA.UK	YGA	YGAA.UK	YGA	YGAA.UK
Heat pump with electric heater	PLH-P3AAH.UK	○	○	○	○	—	—	—	—	—	—	—
	PLH-P3AAH$_1$.UK	—	—	○	○	—	—	—	—	—	—	—
	PLH-P4AAH.UK	—	—	—	—	○	○	○	—	—	—	—
	PLH-P4AAH$_1$.UK	—	—	—	—	—	○	○	—	—	—	—
	PLH-P5AAH.UK	—	—	—	—	—	—	—	○	○	—	—
	PLH-P5AAH$_1$.UK	—	—	—	—	—	—	—	—	○	—	—
	PLH-P6AAH.UK	—	—	—	—	—	—	—	—	—	○	○
	PLH-P6AAH$_1$.UK	—	—	—	—	—	—	—	—	—	—	○

3 SAFETY PRECAUTION

Cautions for devices that use R407C refrigerant.

- **Do not use the existing refrigerant piping.**
  -The old refrigerant and lubricating oil in the existing piping contains a large amount of chlorine which may cause the lubricating oil of the new unit to deteriorate.

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

- **Store the piping to be used during installation indoors and keep both ends of the piping sealed until just before brazing. (Store elbows and other joints in a plastic bag.)**
  -If dust, dirt, or water enters the refrigerant cycle, deterioration of the oil and compressor trouble may result.

- **Use Suniso 4GS or 3GS (small amount) as the lubricating oil to coat flares and flange connection parts.**
  -The lubricating oil used with the air conditioner is highly hygroscopic. If it is used, water may be mixed in and deterioration of the lubricating oil may result.

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

- **Do not use a refrigerant other than R407C.**
  -If another refrigerant (R22, etc.) is used, the chlorine in the refrigerant may cause the lubricating oil to deteriorate.

- **Use a vacuum pump with a reverse flow check valve.**
  -The vacuum pump oil may flow back into the refrigerant cycle and cause the lubricating oil to deteriorate.

[1] Service tools

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

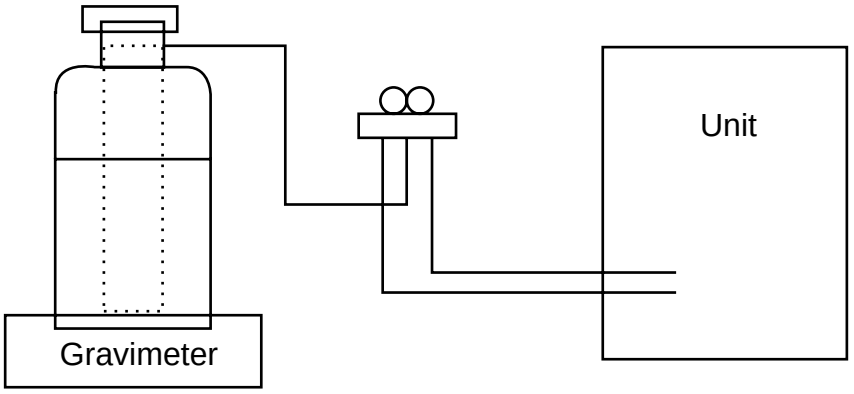
No.	Tool name	Specifications
①	Gauge manifold	·Only for R407C.
		·Use the existing fitting SPECIFICATIONS. (UNF7/16)
		·Use high-tension side pressure of 35kgf/cm^2 or over.
②	Charge hose	·Only for R407C.
		·Use pressure performance of 52kgf/cm^2 or over.
③	Electronic scale	
④	Gas leak detector	·Use the detector for R134a or R407C.
⑤	Adapter for reverse flow check.	·Attach on vacuum pump.
⑥	Refrigerant charge base.	
⑦	Refrigerant cylinder.	·For R407C ·Top of cylinder (Brown) ·Cylinder with syphon
⑧	Refrigerant recovery equipment.	

[2] Notice on repair service

·After recovering all the refrigerant in the unit, work may be started.
·Do not release the refrigerant in the air.
·After completing the repair service, recharge the system with the specified amount of the liquid refrigerant.

[3] Refrigerant recharging

(1) Refrigerant recharging process
Direct charging from the cylinder.
·Confirm that the cylinder is suitable for syphoning.
·Raise the cylinder and recharge the unit by syphoning liquid refrigerant.

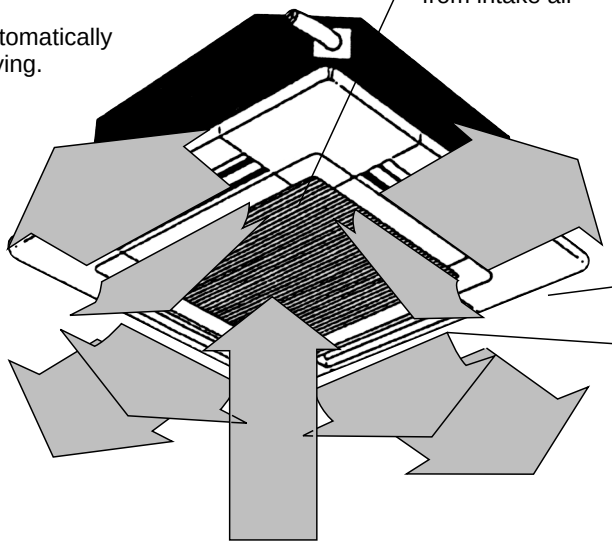


(2) Recharge when refrigerant leakage has occurred.
·After recovering all the refrigerant in the unit, work may be started.
·Do not release the refrigerant in the air.
·After completing the repair service, recharge the system with the specified amount of the liquid refrigerant.

4 PART NAMES AND FUNCTIONS

● **Indoor (Main) Unit**

PLH-P3AAH.UK, PLH-P4AAH.UK, PLH-P5AAH.UK, PLH-P6AAH.UK
PLH-P3AAH1.UK, PLH-P4AAH1.UK, PLH-P5AAH1.UK, PLH-P6AAH1.UK

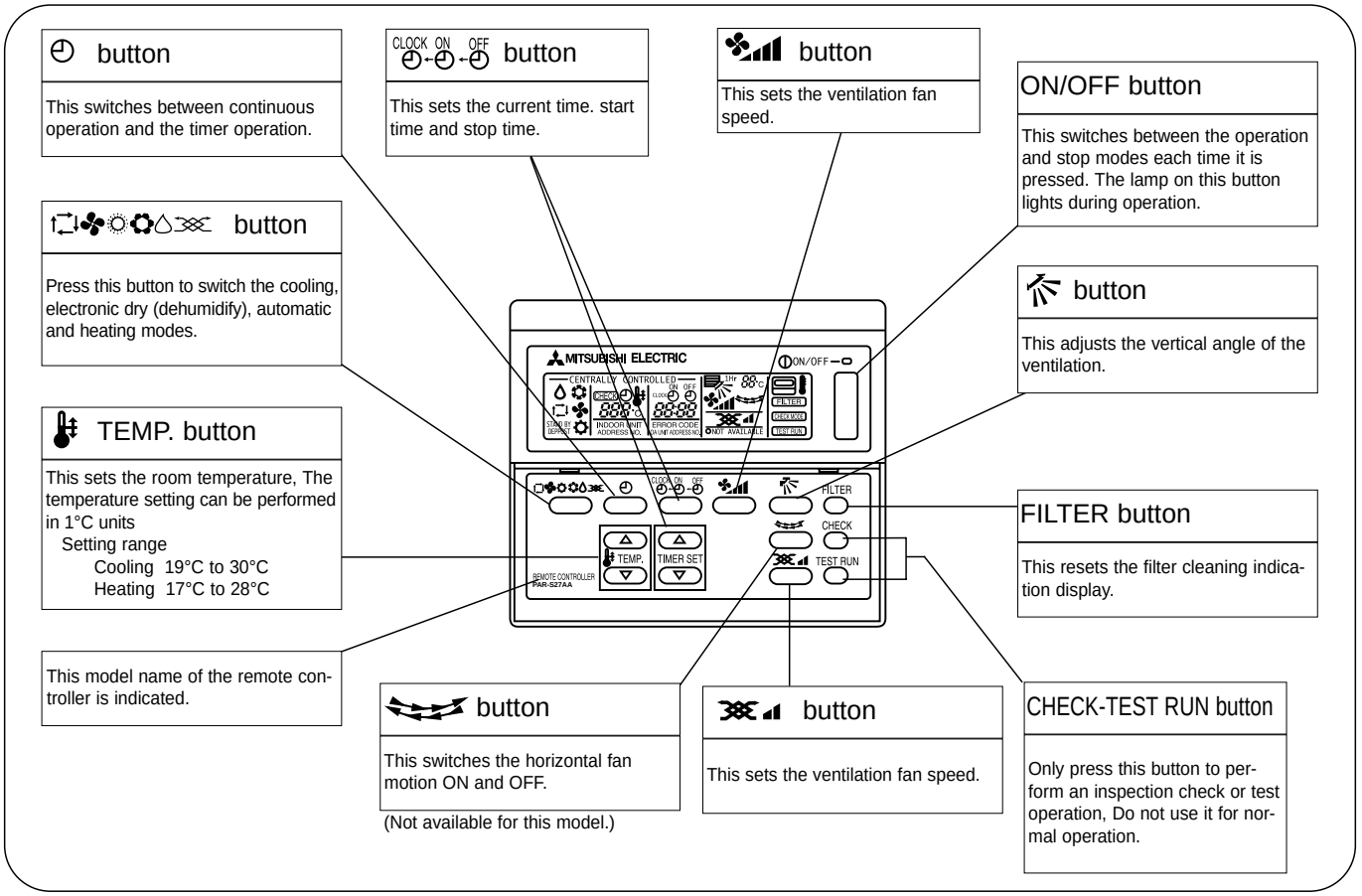


● Wired remote controller

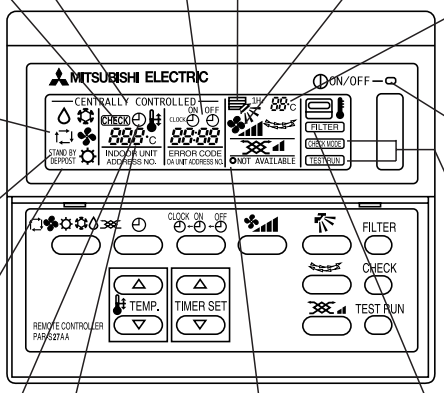
On the controls are set, the same operation mode can be repeated by simply pressing the ON/OFF button.

PLH-P3AAH.UK, PLH-P4AAH.UK, PLH-P5AAH.UK, PLH-P6AAH.UK

● Operation buttons [PAR-S27A-E]



● Display



CENTRALLY CONTROLLED display

This indicates when the unit is controlled by optional features such as central control type remote controller.

CHECK display

This indicates when a malfunction has occurred in the unit which should be checked.

OPERATION MODE display

This indicates the operation mode.

STANDBY display

The [STANDBY] symbol is only displayed from the time the heating operation starts until the heated air begins to blow.

DEFROST display

This indicates when the defrost operation is performed.

◴ display

This indicates when the continuous operation and time operation modes are set.
It also display the time for the timer operation at the same time as when it is set.

ON OFF CLOCK ◴ ◴ display

The current time , start time and stop time can be displayed in ten second intervals by pressing the time setting button. The start time or stop time is always displayed during the timer operation.

display

This displays the air direction.

88°C display

This displays the selected setting temperature.

⊙display

This lamp lights when electricity is supplied to the unit.

In this display example on the bottom left, a condition where all display lamps light is shown for explanation purposes although this differs from actual operation.

display

The selected fan speed is displayed.

88°C display

The temperature of the suction air is displayed during operation. The display range is 10° to 35°C. The display flashes 10°C when the actual temperature is less than 10° and flashes 35°C when the actual temperature is greater than 35°C.

Operation lamp

This lamp lights during operation, goes off when the unit stops and flashes when a malfunction occurs.

CHECK MODE / TEST RUN display

This display lights in the check mode or when a test operation is performed.

FILTER display

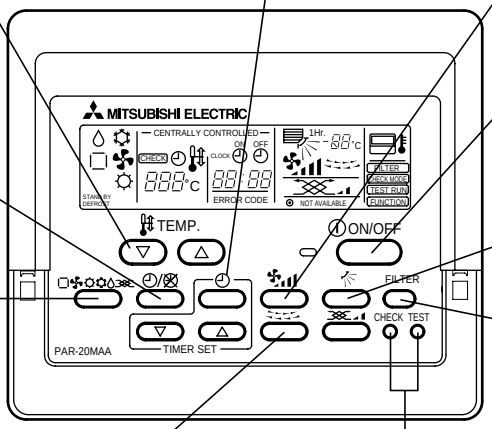
This lamp lights when the filter need to be cleaned.

Caution

- Only the ⊙ display lights when the unit is stopped and power supplied to the unit.
- When power is turned ON for the first time the (CENTRAL CTRL) display appears to go off momentarily but this is not a malfunction.
- When the central control remote control unit, which is sold separately, is used the ON-OFF button, button and TEMP. button do not operate.
  - “NOT AVAILABLE” is displayed when the 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 “HO” is displayed on the room temperature indication (For max. 2minutes).
  Please wait until this “HO” indication disappear than start the operation.

PLH-P3AAH1.UK, PLH-P4AAH1.UK, PLH-P5AAH1.UK, PLH-P6AAH1.UK

● Operation buttons [PAR-20MAA-E]



TEMP. ADJUSTMENT button

This sets the room temperature. The temperature setting can be performed in 1℃ units

Setting range

Cooler 19℃ to 30℃

Heater 17℃ to 28℃

TIME SETTING button

This sets the current time, start time and stop time.

AIR SPEED button

This sets the ventilation fan speed.

ON/OFF button

This switches between the operation and stop modes each time it is pressed. The lamp on this button lights during operation.

TIMER button

This switches between continuous operation and the timer operation.

AIR DIRECTION button

This adjusts the vertical angle of the ventilation.

OPERATION SWITCH button

Press this button to switch the cooler, electronic dry (dehumidify), automatic and heater modes.

FILTER button

This resets the filter service indication display

LOUVER button

This switch the horizontal fan motion ON and OFF.

(Not available for this model.)

CHECK-TEST RUN button

Only press this button to perform an inspection check or test operation. Do not use it for normal operation.

● Display

CENTRALLY CONTROLLED display

This indicates when the unit is controlled by optional features such as central control type remote controller.

CLOCK display

The current time , start time and stop time can be displayed in ten second intervals by pressing the time switch button. The start time or stop time is always displayed during the timer operation.

In this display example on the bottom left, a condition where all display lamps light is shown for explanation purposes although this differs from actual operation.

AIR DIRECTION display

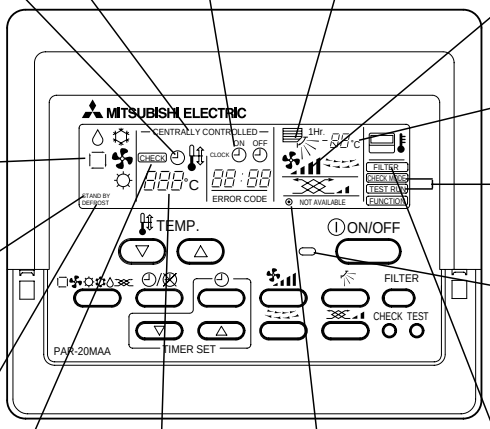
This displays the air direction.

TIMER display

This indicates when the continuous operation and time operation modes are set.
It also display the time for the timer operation at the same time as when it is set.

AIR SPEED display

The selected fan speed is displayed.



ROOM TEMPERATURE display

The temperature of the suction air is displayed during operation. The display range is 8°C to 39°C. The display flashes 8°C when the actual temperature is less than 8°C and flashes 39°C when the actual temperature is greater than 39°C.

OPERATION MODE display

This indicates the operation mode.

Operation lamp

This lamp lights during operation, goes off when the unit stops and flashes when a malfunction occurs.

STANDBY display

The [STANDBY] symbol is only displayed from the time the heating operation starts unit the heated air begins to blow.

CHECK MODE / TEST RUN display

This display lights in the check mode or when a test operation is performed.

DEFROST display

This indicates when the defrost operation is performed.

FILTER display

This lamp lights when the filter need to be cleaned.

CHECK display

This indicates when a malfunction has occurred in the unit which should be checked.

SET TEMPERATURE display

This displays the selected setting temperature.

POWER display

This lamp lights when electricity is supplied to the unit.

Caution

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

● Wireless remote controller

PLH-P3AAH.UK, PLH-P4AAH.UK, PLH-P5AAH.UK, PLH-P6AAH.UK

● When cover is open. [PAR-SL95A-E]

display

Lights up while transmission to the indoor unit is mode using switches.

display

OPERATION MODE display
Operation mode display indicates which operation mode is in effect.

• FUNCTION display

Lights up when function are set.

• TEST RUN • CHECK display

CHECK&TEST RUN display indicates that the unit is being checked or test-run.

display

Displays when batteries are dead.

display

The vertical direction of airflow is indicated.

display

FAN SPEED display indicates which fan speed has been selected.

display

The unit is turned ON and OFF alternately each time the button is pressed.

ADDRESS display

Displays the refrigerant address.

UNIT NO. display

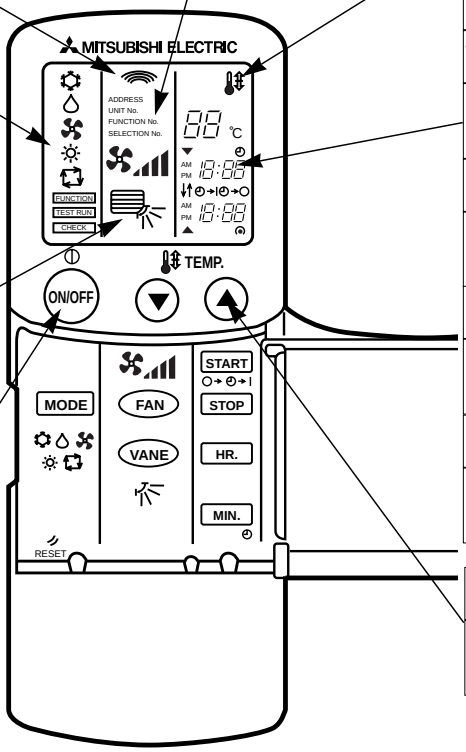
Displays the number of unit..

FUNCTION NO. display

Displays the mode.

SELECTION NO. display

Displays the selection number..



display

SET TEMP. display indicates desired temperature set.

CLOCK display

DIsplays the current time.

“ ◴ ”display

Flashes when the current time is displayed.

TIMER display

Displays when in timer operation or when setting timer.

“ ⬆ ” “ ⬇ ” display

Displays the order of timer operation.

“ ◴-| ” “ ◴-◯ ” display

Displays whether timer is on or off.

“ ▼ ” “ ▲ ” display

Displays when the current time and the timer time can be changed.

TEMP. button

SET TEMPERATURE button sets any desired room temperature.

● When cover is open.

MODE SELECT button

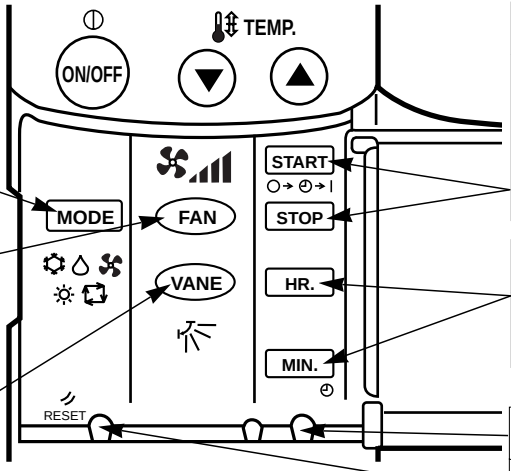
Used to switch the operation mode between cooling , drying , blowing , heating and auto mode.

FAN SPEED SELECT button

Used to change the fan speed.

VANE CONTROL button

Used to change the airflow direction.



TIMER CONTROL buttons

STOP (OFF timer): when this switch is set, the air conditioner will be automatically stopped at the preset time.
START (ON timer): when this switch is set, the air conditioner will be automatically started at the preset time.

HR. and MIN.buttons

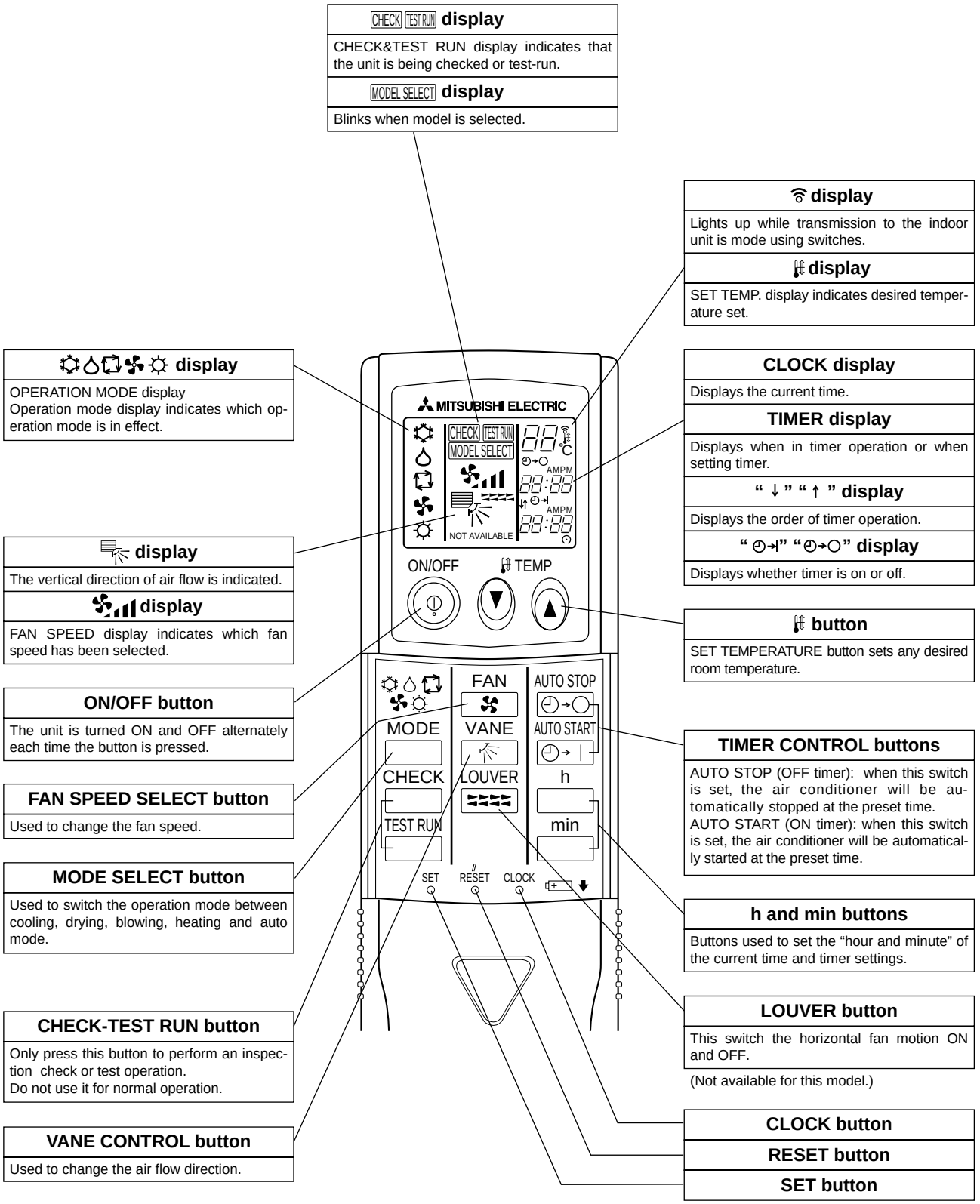
Buttons used to set the “hour and minute” of the current time and timer settings.

◴ button

RESET button

PLH-P3AAH1.UK, PLH-P4AAH1.UK, PLH-P5AAH1.UK, PLH-P6AAH1.UK

● When cover is open. [PAR-SL97A-E]



5 SPECIFICATIONS

Item				Service Ref.	PLH-P3AAH.UK	
Function					Cooling	Heating
Capacity		※1		Btu/h	26,600	31,700 [38,900]
				W	7,800	9,300 [11,400]
Total input		※1		kW	3.51	3.65 [5.75]
Indoor unit	**Service Ref.**				**PLH-P3AAH.UK**	
	Power supply (phase, cycle,voltage)				Single phase, 50Hz, 220–230–240V	
		Input	※2	kW	0.17	0.17 <2.10>
		Running current	※2	A	0.81	0.81 <8.75>
		Starting current	※2	A	1.0	1.0 <8.75>
	External finish				Munsell 0.70Y 8.59/0.97	
	Heat exchanger				Plate fin coil	
	Fan	Fan (drive) × No.			Turbo fan (direct) × 1	
		Fan motor output		kW	0.070	
		Airflow (Lo-Mi2-Mi1-Hi)		m³ / min (CFM)	15-16-18-20 (530-565-635-705)	
		External static pressure		Pa (mmAq)	0 (direct blow)	
	Booster heater			kW	<2.1>	
	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 : 26 (57) PANEL : 5 (11)	
Outdoor unit	**Service Ref.**				**PUH-P3VGA / PUH-P3YGA**	
	Power supply (phase, cycle, voltage)				Single phase, 50Hz, 220–230–240V / 3 phases, 50Hz, 380–400–415V (4wires)	
		Running current		A	14.64/5.46	15.43/5.76
		Starting current		A	93/41	
	External finish				Munsell 5Y 8/1	
	Refrigerant control				Linear expansion valve	
	Compressor				Hermetic	
		Model			NE52VNJM / NE52YDJM	
		Motor output		kW	2.5	
		Starter type			Line start	
		Protection devices			Internal thermostat, HP switch, Discharge thermo. / Thermal relay, Discharge thermo., HP switch, Anti-phase protector	
	Heat exchanger				Plate fin coil	
	Fan	Fan (drive) × No.			Propeller (direct) × 1	
		Fan motor output		kW	0.070	
		Airflow		m³/ min (CFM)	50 (1,770)	
	Crankcase heater			W	38	
	Defrost method				Reverse cycle	
	Sound level		Cooling	dB	49	
			Heating	dB	51	
	Dimensions		W	mm (in.)	900 (35-7/16)	
			D	mm (in.)	330+20 (13+3/4)	
			H	mm (in.)	855 (33-5/8)	
	Weight			kg (lbs.)	82 (181)	
Refrigerant piping	Refrigerant				R407C	
		Charge		kg (lbs.)	3.7 (8.2)	
		Oil (Model)		L	1.6 (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. 50m	
			Piping length		Max. 50m	

NOTE: 1. Rating conditions (ISO T1)
Cooling : Indoor : D.B. 27℃ (80˚F) W.B. 19℃ (66˚F) Outdoor : D.B. 35℃ (95˚F) W.B. 24℃ (75˚F)
Heating : Indoor : D.B. 20℃ (68˚F) Outdoor : D.B. 7℃ (45˚F) W.B. 6℃ (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. 24˚C, W.B. 18˚C
	Lower limit	D.B. 17˚C	D.B. -11˚C, W.B. -12˚C

※1 : [ ] Shows the total rating.
※2 : < > Shows the only booster heater rating.

3. Above data based on indicated voltage
Indoor unit Single phase 240V 50Hz
Outdoor unit Single phase 240V 50Hz / 3 phases 415V 50Hz

Item \ Service Ref.				PLH-P4AAH.UK	
Function				Cooling	Heating
Capacity ※1			Btu/h	33,100	36,200 [45,000]
			W	9,700	10,600 [13,200]
Total input ※1			kW	3.62	3.80 [6.40]
Indoor unit	**Service Ref.**			**PLH-P4AAH.UK**	
	Power supply (phase, cycle,voltage)			Single phase, 50Hz, 220–230–240V	
		Input ※2	kW	0.26	0.26 <2.60>
		Running current ※2	A	1.25	1.25 <10.83>
		Starting current ※2	A	2.0	2.0 <10.83>
	External finish			Munsell 0.70Y 8.59/0.97	
	Heat exchanger			Plate fin coil	
	Fan	Fan (drive) × No.		Turbo fan (direct) × 1	
		Fan motor output	kW	0.120	
		Airflow (Lo-Mi2-Mi1-Hi)	m³ / min (CFM)	20-23-26-28 (705-810-920-990)	
		External static pressure	Pa (mmAq)	0 (direct blow)	
	Booster heater		kW	<2.6>	
	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 : 32 (71) PANEL : 5 (11)	
Outdoor unit	**Service Ref.**			**PUH-P4YGA**	
	Power supply (phase, cycle, voltage)			3 phases, 50Hz, 380–400–415V (4wires)	
		Running current	A	5.49	5.79
		Starting current	A	45	
	External finish			Munsell 5Y 8/1	
	Refrigerant control			Linear expansion valve	
	Compressor			Hermetic	
		Model		NE56YDJM	
		Motor output	kW	2.7	
		Starter type		Line start	
		Protection devices		Anti-phase protector, Thermal relay, Discharge thermo., HPswitch	
	Heat exchanger			Plate fin coil	
	Fan	Fan (drive) × No.		Propeller (direct) × 2	
		Fan motor output	kW	0.070+0.070	
		Airflow	m³ / min (CFM)	85 (3,000)	
	Crankcase heater		W	38	
	Defrost method			Reverse cycle	
	Sound level	Cooling	dB	51	
		Heating	dB	53	
	Dimensions	W	mm (in.)	900 (35-7/16)	
		D	mm (in.)	330+20 (13+3/4)	
		H	mm (in.)	1,260 (49-5/8)	
	Weight		kg (lbs.)	96 (212)	
Refrigerant piping	Refrigerant			R407C	
		Charge	kg (lbs.)	4.0 (8.8)	
		Oil (Model)	L	1.6 (MEL56)	
	Pipe size O.D.	Liquid	mm (in.)	9.52 (3/8)	
		Gas	mm (in.)	19.05 (3/4)	
	Connection method	Indoor side		Flared	
		Outdoor side		Flared	
	Between the indoor & outdoor units	Height difference		Max. 50m	
		Piping length		Max. 50m	

NOTE: 1. Rating conditions (ISO T1)

Cooling : Indoor : D.B. 27℃ (80˚F), W.B. 19℃ (66˚F) Outdoor : D.B. 35℃ (95˚F) W.B. 24℃ (75˚F)

Heating : Indoor : D.B. 20℃ (68˚F) Outdoor : D.B. 7℃ (45˚F) W.B. 6℃ (43˚F)

Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35℃ , W.B. 22.5℃	D.B. 46℃
	Lower limit	D.B. 19 ℃, W.B. 15℃	D.B. -5℃
Heating	Upper limit	D.B. 28℃	D.B. 24℃ , W.B. 18℃
	Lower limit	D.B. 17℃	D.B. -11℃ , W.B. -12℃

※1 : [ ] Shows the total rating.

※2 : < > Shows the only booster heater rating.

3. Above data based on indicated voltage

Indoor unit Single phase 240V 50Hz

Outdoor unit 3 phases 415V 50Hz

Item \ Service Ref.				PLH-P5AAH.UK	
Function				Cooling	Heating
Capacity ※1			Btu/h	43,700	54,600 [64,800]
			W	12,800	16,000 [19,000]
Total input ※1			kW	5.55	5.93 [8.93]
Indoor unit	**Service Ref.**			**PLH-P5AAH.UK**	
	Power supply (phase, cycle,voltage)			Single phase, 50Hz, 220–230–240V	
		Input ※2	kW	0.30	0.30 <3.00>
		Running current ※2	A	1.43	1.43 <12.50>
		Starting current ※2	A	2.0	2.0 <12.50>
	External finish			Munsell 0.70Y 8.59/0.97	
	Heat exchanger			Plate fin coil	
	Fan	Fan (drive) × No.		Turbo fan (direct) × 1	
		Fan motor output	kW	0.120	
		Airflow (Lo-Mi2-Mi1-Hi)	m³ / min (CFM)	22-25-28-30 (775-880-990-1,060)	
		External static pressure	Pa (mmAq)	0 (direct blow)	
	Booster heater		kW	<3.0>	
	Operation control & Thermostat			Remote controller & built-in	
	Sound level (Lo-Mi2-Mi1-Hi)		dB	35-38-41-43	
	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)	
Outdoor unit	**Service Ref.**			**PUH-P5YGA**	
	Power supply (phase, cycle, voltage)			3 phases, 50Hz, 380–400–415V (4wires)	
		Running current	A	8.39	8.74
		Starting current	A	79	
	External finish			Munsell 5Y 8/1	
	Refrigerant control			Linear expansion valve	
	Compressor			Hermetic	
		Model		HE86YAA	
		Motor output	kW	4.3	
		Starter type		Line start	
		Protection devices		Internal thermostat, Anti-phase protector, Thermal relay, HP switch, LP switch, Discharge thermo.	
	Heat exchanger			Plate fin coil	
	Fan	Fan (drive) × No.		Propeller (direct) × 2	
		Fan motor output	kW	0.075+0.075	
		Airflow	m³ / min (CFM)	95 (3,360)	
	Crankcase heater		W	38	
	Defrost method			Reverse cycle	
	Sound level	Cooling	dB	53	
		Heating	dB	55	
	Dimensions	W	mm (in.)	1,050 (41-5/16)	
		D	mm (in.)	330+20 (13+3/4)	
		H	mm (in.)	1,260 (49-5/8)	
	Weight		kg (lbs.)	122 (269)	
Refrigerant piping	Refrigerant			R407C	
		Charge	kg (lbs.)	5.8 (12.8)	
		Oil (Model)	L	2.0 (MEL32)	
	Pipe size O.D.	Liquid	mm (in.)	9.52 (3/8)	
		Gas	mm (in.)	19.05 (3/4)	
	Connection method	Indoor side		Flared	
		Outdoor side		Flared	
	Between the indoor & outdoor units	Height difference		Max. 50m	
		Piping length		Max. 50m	

NOTE: 1. Rating conditions (ISO T1)

Cooling : Indoor : D.B. 27℃ (80˚F), W.B. 19℃ (66˚F) Outdoor : D.B. 35℃ (95˚F) W.B. 24℃ (75˚F)

Heating : Indoor : D.B. 20℃ (68˚F) Outdoor : D.B. 7℃ (45˚F) W. B. 6 ℃ (43˚F)

Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35℃, W.B. 22.5℃	D.B. 46℃
	Lower limit	D.B. 19℃ , W.B. 15℃	D.B. -5℃
Heating	Upper limit	D.B. 28℃	D.B. 24℃ , W.B. 18℃
	Lower limit	D.B. 17℃	D.B. -11℃ , W.B. -12℃

※1 : [ ] Shows the total rating.

※2 : < > Shows the only booster heater rating.

3. Above data based on indicated voltage

Indoor unit Single phase 240V 50Hz

Outdoor unit 3 phases 415V 50Hz

Item \ Service Ref.				PLH-P6AAH.UK	
Function				Cooling	Heating
Capacity	※1		Btu/h	48,000	57,300 [67,600]
			W	14,300	16,800 [19,800]
Total input	※1		kW	6.70	6.77 [9.77]
Indoor unit	**Service Ref.**			**PLH-P6AAH.UK**	
	Power supply (phase, cycle,voltage)			Single phase, 50Hz, 220–230–240V (4wires)	
		Input ※2	kW	0.34	0.34 <3.00>
		Running current ※2	A	1.64	1.64 <12.50>
		Starting current ※2	A	2.0	2.0 <12.50>
	External finish			Munsell 0.70Y 8.59/0.97	
	Heat exchanger			Plate fin coil	
	Fan	Fan (drive) × No.		Turbo fan (direct) × 1	
		Fan motor output	kW	0.120	
		Airflow (Lo-Mi2-Mi1-Hi)	m³ / min (CFM)	22-25-28-30 (775-880-990-1,060)	
		External static pressure	Pa (mmAq)	0 (direct blow)	
	Booster heater		kW	<3.0>	
	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 : 34 (75) PANEL : 5 (11)	
Outdoor unit	**Service Ref.**			**PUH-P6YGA**	
	Power supply (phase, cycle, voltage)			3 phases, 50Hz, 380–400–415V (4wires)	
		Running current	A	10.17	10.28
		Starting current	A	84	
	External finish			Munsell 5Y 8/1	
	Refrigerant control			Linear expansion valve	
	Compressor			Hermetic	
		Model		HE101YAA	
		Motor output	kW	5.1	
		Starter type		Line start	
		Protection devices		Internal thermostat, Anit-phase protector, Thermal relay, HP switch, LP switch, Discharge thermo.	
	Heat exchanger			Plate fin coil	
	Fan	Fan (drive) × No.		Propeller (direct) × 2	
		Fan motor output	kW	0.075+0.075	
		Airflow	m³ / min (CFM)	100 (3,530)	
	Crankcase heater		W	38	
	Defrost method			Reverse cycle	
	Sound level	Cooling	dB	55	
		Heating	dB	57	
	Dimensions	W	mm (in.)	1,050 (41-5/16)	
		D	mm (in.)	330+20(13+3/4)	
		H	mm (in.)	1,260 (49-5/8)	
	Weight		kg (lbs.)	122 (269)	
Refrigerant piping	Refrigerant			R407C	
		Charge	kg (lbs.)	5.8 (12.8)	
		Oil (Model)	L	2.0 (MEL32)	
	Pipe size O.D.	Liquid	mm (in.)	9.52 (3/8)	
		Gas	mm (in.)	19.05 (3/4)	
	Connection method	Indoor side		Flared	
		Outdoor side		Flared	
	Between the indoor & outdoor units	Height difference		Max. 50m	
		Piping length		Max. 50m	

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

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35℃, W.B. 22.5℃	D.B. 46℃
	Lower limit	D.B. 19℃ , W.B. 15℃	D.B. -5℃
Heating	Upper limit	D.B. 28℃	D.B. 24℃ , W.B. 18℃
	Lower limit	D.B. 17℃	D.B. -11℃, W.B. -12℃

※1 : [ ] Shows the total rating.
※2 : < > Shows the only booster heater rating.

3. Above data based on indicated voltage
Indoor unit Single phase 240V 50Hz
Outdoor unit 3 phases 415V 50Hz

Item				Service Ref.	PLH-P3AAH.UK / PLH-P3AAH1.UK	
Function					Cooling	Heating
Capacity	※1			Btu/h	26,600	31,700 [38,900]
				W	7,800	9,300 [11,400]
Total input	※1			kW	3.44	3.50 [5.60]
Indoor unit	**Service Ref.**				**PLH-P3AAH.UK / PLH-P3AAH1.UK**	
	Power supply (phase, cycle,voltage)				Single phase, 50Hz, 220–230–240V	
		Input	※2	kW	0.17	0.17 <2.10>
		Running current	※2	A	0.81	0.81 <8.75>
		Starting current	※2	A	1.0	1.0 <8.75>
	External finish				Munsell 0.70Y 8.59/0.97	
	Heat exchanger				Plate fin coil	
	Fan	Fan (drive) × No.			Turbo fan (direct) × 1	
		Fan motor output		kW	0.070	
		Airflow (Lo-Mi2-Mi1-Hi)		m³ / min (CFM)	15-16-18-20 (530-565-635-705)	
		External static pressure		Pa (mmAq)	0 (direct blow)	
	Booster heater			kW	<2.1>	
	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 : 26 (57) PANEL : 5 (11)	
Outdoor unit	**Service Ref.**				**PUH-P3VGAA.UK / PUH-P3YGAA.UK**	
	Power supply (phase, cycle, voltage)				Single phase, 50Hz, 220–230–240V / 3 phases, 50Hz, 380–400–415V (4wires)	
		Running current		A	14.81/ 5.29	15.76/ 5.63
		Starting current		A	93/ 47	
	External finish				Munsell 5Y 7/1	
	Refrigerant control				Linear expansion valve	
	Compressor				Hermetic	
		Model			NE52VNJMT/ NE52YDJMT	
		Motor output		kW	2.5	
		Starter type			Line start	
		Protection devices			Internal thermostat, HP switch, Discharge thermo. / Thermal relay , HPswitch, Discharge thermo.	
	Heat exchanger				Plate fin coil	
	Fan	Fan (drive) × No.			Propeller (direct) × 1	
		Fan motor output		kW	0.070	
		Airflow		m³/ min (CFM)	50 (1,770)	
	Crankcase heater			W	38	
	Defrost method				Reverse cycle	
	Sound level		Cooling	dB	49	
			Heating	dB	51	
	Dimensions		W	mm (in.)	900 (35-7/16)	
			D	mm (in.)	330+20 (13+3/4)	
			H	mm (in.)	855 (33-5/8)	
	Weight			kg (lbs.)	82 (181)	
Refrigerant piping	Refrigerant				R407C	
		Charge		kg (lbs.)	3.3 (7.3)	
		Oil (Model)		L	1.3 (Ester) 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. 50m	
			Piping length		Max. 50m	

NOTE: 1. Rating conditions (ISO T1)

Cooling : Indoor : D.B. 27℃ (80˚F) W.B. 19℃ (66˚F) Outdoor : D.B. 35℃ (95˚F) W.B. 24℃ (75˚F)

Heating : Indoor : D.B. 20℃ (68˚F) Outdoor : D.B. 7℃ (45˚F) W.B. 6℃ (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. 24˚C, W.B. 18˚C
	Lower limit	D.B. 17˚C	D.B. -11˚C, W.B. -12˚C

※1 : [ ] Shows the total rating.

※2 : < > Shows the only booster heater rating.

3. Above data based on indicated voltage

Indoor unit Single phase 240V 50Hz

Outdoor unit Single phase 240V 50Hz / 3 phases 415V 50Hz

Item				Service Ref.	PLH-P4AAH.UK / PLH-P4AAH1.UK	
Function					Cooling	Heating
Capacity	※1			Btu/h	33,100	36,200 [43,300]
				W	9,700	10,600 [12,700]
Total input	※1			kW	3.69	3.93 [6.03]
Indoor unit	**Service Ref.**				**PLH-P4AAH.UK / PLH-P4AAH1.UK**	
	Power supply (phase, cycle,voltage)				Single phase, 50Hz, 220–230–240V	
		Input	※2	kW	0.26	0.26 <2.60>
		Running current	※2	A	1.25	1.25 <10.83>
		Starting current	※2	A	2.0	2.0 <10.83>
	External finish				Munsell 0.70Y 8.59/0.97	
	Heat exchanger				Plate fin coil	
	Fan	Fan (drive) × No.			Turbo fan (direct) × 1	
		Fan motor output		kW	0.120	
		Airflow (Lo-Mi2-Mi1-Hi)		m³ / min (CFM)	20-23-26-28 (705-810-920-990)	
		External static pressure		Pa (mmAq)	0 (direct blow)	
	Booster heater			kW	<2.6>	
	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 : 32 (71) PANEL : 5 (11)	
Outdoor unit	**Service Ref.**				**PUH-P4VGAAH.UK / PUH-P4YGAA.UK**	
	Power supply (phase, cycle, voltage)				Single phase, 50Hz, 220–230–240V/ 3 phases, 50Hz, 380–400–415V (4wires)	
		Running current		A	15.71/ 5.55	16.58/ 5.86
		Starting current		A	99/ 49	
	External finish				Munsell 5Y 7/1	
	Refrigerant control				Linear expansion valve	
	Compressor				Hermetic	
		Model			NE56VNJMT/ NE56YDKMT	
		Motor output		kW	2.7	
		Starter type			Line start	
		Protection devices			Internal thermostat, HP switch, Discharge thermo./ Thermal relay, HP switch, Discharge thermo.	
	Heat exchanger				Plate fin coil	
	Fan	Fan (drive) × No.			Propeller (direct) × 2	
		Fan motor output		kW	0.070+0.070	
		Airflow		m³ / min (CFM)	85 (3,000)	
	Crankcase heater			W	38	
	Defrost method				Reverse cycle	
	Sound level		Cooling	dB	51	
			Heating	dB	53	
	Dimensions		W	mm (in.)	900 (35-7/16)	
			D	mm (in.)	330+20 (13+3/4)	
			H	mm (in.)	1,260 (49-5/8)	
	Weight			kg (lbs.)	96 (212)	
Refrigerant piping	Refrigerant				R407C	
		Charge		kg (lbs.)	4.0 (8.8)	
		Oil (Model)		L	1.3 (Ester) MEL56	
	Pipe size O.D.		Liquid	mm (in.)	9.52 (3/8)	
			Gas	mm (in.)	19.05 (3/4)	
	Connection method		Indoor side		Flared	
			Outdoor side		Flared	
	Between the indoor & outdoor units		Height difference		Max. 50m	
			Piping length		Max. 50m	

NOTE: 1. Rating conditions (ISO T1)

Cooling : Indoor : D.B. 27℃ (80˚F), W.B. 19℃ (66˚F) Outdoor : D.B. 35℃ (95˚F) W.B. 24℃ (75˚F)

Heating : Indoor : D.B. 20℃ (68˚F) Outdoor : D.B. 7℃ (45˚F) W.B. 6℃ (43˚F)

Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35℃ , W.B. 22.5℃	D.B. 46℃
	Lower limit	D.B. 19 ℃, W.B. 15℃	D.B. -5℃
Heating	Upper limit	D.B. 28℃	D.B. 24℃ , W.B. 18℃
	Lower limit	D.B. 17℃	D.B. -11℃ , W.B. -12℃

※1 : [ ] Shows the total rating.

※2 : < > Shows the only booster heater rating.

3. Above data based on indicated voltage

Indoor unit Single phase 240V 50Hz

Outdoor unit Single phase 240V 50Hz/ 3 phases 415V 50Hz

Item				Service Ref.	PLH-P5AAH.UK / PLH-P5AAH1.UK	
Function					Cooling	Heating
Capacity	※1			Btu/h	43,700	50,800 [61,100]
				W	12,800	14,900 [17,900]
Total input	※1			kW	5.00	5.34 [8.34]
Indoor unit	**Service Ref.**				**PLH-P5AAH.UK / PLH-P5AAH1.UK**	
	Power supply (phase, cycle,voltage)				Single phase, 50Hz, 220–230–240V	
		Input	※2	kW	0.30	0.30 <3.00>
		Running current	※2	A	1.43	1.43 <12.50>
		Starting current	※2	A	2.0	2.0 <12.50>
	External finish				Munsell 0.70Y 8.59/0.97	
	Heat exchanger				Plate fin coil	
	Fan	Fan (drive) × No.			Turbo fan (direct) × 1	
		Fan motor output		kW	0.120	
		Airflow (Lo-Mi2-Mi1-Hi)		m³ / min (CFM)	22-25-28-30 (775-880-990-1,060)	
		External static pressure		Pa (mmAq)	0 (direct blow)	
	Booster heater			kW	<3.0>	
	Operation control & Thermostat				Remote controller & built-in	
	Sound level (Lo-Mi2-Mi1-Hi)			dB	35-38-41-43	
	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)	
Outdoor unit	**Service Ref.**				**PUH-P5YGAA.UK**	
	Power supply (phase, cycle, voltage)				3 phases, 50Hz, 380–400–415V (4wires)	
		Running current		A	7.60	8.15
		Starting current		A	65.5	
	External finish				Munsell 5Y 7/1	
	Refrigerant control				Linear expansion valve	
	Compressor				Hermetic	
		Model			ZR61KCE-TFD	
		Motor output		kW	3.5	
		Starter type			Line start	
		Protection devices			Internal thermostat, Thermal relay, HPswitch, Discharge thermo.	
	Heat exchanger				Plate fin coil	
	Fan	Fan (drive) × No.			Propeller (direct) × 2	
		Fan motor output		kW	0.070+0.070	
		Airflow		m³ / min (CFM)	95 (3,360)	
	Crankcase heater			W	38	
	Defrost method				Reverse cycle	
	Sound level		Cooling	dB	55	
			Heating	dB	56	
	Dimensions		W	mm (in.)	1,050 (41-5/16)	
			D	mm (in.)	330+20 (13+3/4)	
			H	mm (in.)	1,260 (49-5/8)	
	Weight			kg (lbs.)	122 (269)	
Refrigerant piping	Refrigerant				R407C	
		Charge		kg (lbs.)	4.6 (10.1)	
		Oil (Model)		L	1.690 (Ester) MMMA-POE	
	Pipe size O.D.		Liquid	mm (in.)	9.52 (3/8)	
			Gas	mm (in.)	19.05 (3/4)	
	Connection method		Indoor side		Flared	
			Outdoor side		Flared	
	Between the indoor & outdoor units		Height difference		Max. 50m	
			Piping length		Max. 50m	

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

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35℃, W.B. 22.5℃	D.B. 46℃
	Lower limit	D.B. 19℃ , W.B. 15℃	D.B. -5℃
Heating	Upper limit	D.B. 28℃	D.B. 24℃ , W.B. 18℃
	Lower limit	D.B. 17℃	D.B. -11℃ , W.B. -12℃

※1 : [ ] Shows the total rating.
※2 : < > Shows the only booster heater rating.

3. Above data based on indicated voltage
Indoor unit Single phase 240V 50Hz
Outdoor unit 3 phases 415V 50Hz

Item \ Service Ref.				PLH-P6AAH.UK / PLH-P6AAH1.UK	
Function				Cooling	Heating
Capacity ※1			Btu/h	48,000	58,300 [68,600]
			W	14,300	17,100 [20,100]
Total input ※1			kW	5.94	6.36 [9.36]
Indoor unit	**Service Ref.**			**PLH-P6AAH.UK / PLH-P6AAH1.UK**	
	Power supply (phase, cycle,voltage)			Single phase, 50Hz, 220–230–240V	
		Input ※2	kW	0.34	0.34 <3.00>
		Running current ※2	A	1.64	1.64 <12.50>
		Starting current ※2	A	2.0	2.0 <12.50>
	External finish			Munsell 0.70Y 8.59/0.97	
	Heat exchanger			Plate fin coil	
	Fan	Fan (drive) × No.		Turbo fan (direct) × 1	
		Fan motor output	kW	0.120	
		Airflow (Lo-Mi2-Mi1-Hi)	m³ / min (CFM)	22-25-28-30 (775-880-990-1,060)	
		External static pressure	Pa (mmAq)	0 (direct blow)	
	Booster heater		kW	<3.0>	
	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 : 34 (75) PANEL : 5 (11)	
Outdoor unit	**Service Ref.**			**PUH-P6YGAA.UK**	
	Power supply (phase, cycle, voltage)			3 phases, 50Hz, 380–400–415V (4wires)	
		Running current	A	9.03	9.56
		Starting current	A	74	
	External finish			Munsell 5Y 7/1	
	Refrigerant control			Linear expansion valve	
	Compressor			Hermetic	
		Model		ZR72KCE-TFD	
		Motor output	kW	4.2	
		Starter type		Line start	
		Protection devices		Internal thermostat, Thermal relay, HP switch, Discharge thermo.	
	Heat exchanger			Plate fin coil	
	Fan	Fan (drive) × No.		Propeller (direct) × 2	
		Fan motor output	kW	0.070+0.070	
		Airflow	m³ / min (CFM)	100 (3,530)	
	Crankcase heater		W	38	
	Defrost method			Reverse cycle	
	Sound level	Cooling	dB	57	
		Heating	dB	58	
	Dimensions	W	mm (in.)	1,050 (41-5/16)	
		D	mm (in.)	330+20(13+3/4)	
		H	mm (in.)	1,260 (49-5/8)	
	Weight		kg (lbs.)	122 (269)	
Refrigerant piping	Refrigerant			R407C	
		Charge	kg (lbs.)	4.9 (10.8)	
		Oil (Model)	L	1.774 (Ester) MMMA-POE	
	Pipe size O.D.	Liquid	mm (in.)	9.52 (3/8)	
		Gas	mm (in.)	19.05 (3/4)	
	Connection method	Indoor side		Flared	
		Outdoor side		Flared	
	Between the indoor & outdoor units	Height difference		Max. 50m	
		Piping length		Max. 50m	

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

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35℃, W.B. 22.5℃	D.B. 46℃
	Lower limit	D.B. 19℃ , W.B. 15℃	D.B. -5℃
Heating	Upper limit	D.B. 28℃	D.B. 24℃ , W.B. 18℃
	Lower limit	D.B. 17℃	D.B. -11℃, W.B. -12℃

※1 : [ ] Shows the total rating.
※2 : < > Shows the only booster heater rating.

3. Above data based on indicated voltage
Indoor unit Single phase 240V 50Hz
Outdoor unit 3 phases 415V 50Hz

6 DATA

1. PERFORMANCE DATA

1.1 COOLING CAPACITY (1)

PLH-P3AAH.UK / PUH-P3VGA, PUH-P3YGA **(240V)**

Indoor intake air DB (°C)	Indoor intake air WB (°C)	Outdoor intake air DB (°C)											
		20				25				30			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	7,722	4,942	0.64	2.81	7,488	4,792	0.64	2.97	7,254	4,643	0.64	3.14
20	18	8,268	4,299	0.52	2.86	8,034	4,178	0.52	3.02	7,761	4,036	0.52	3.23
20	20	8,892	3,557	0.40	2.95	8,697	3,479	0.40	3.09	8,463	3,385	0.40	3.30
22	16	7,722	5,560	0.72	2.81	7,488	5,391	0.72	2.97	7,254	5,223	0.72	3.14
22	18	8,268	4,961	0.60	2.86	8,034	4,820	0.60	3.02	7,761	4,657	0.60	3.23
22	20	8,892	4,268	0.48	2.95	8,697	4,175	0.48	3.09	8,463	4,062	0.48	3.30
24	16	7,722	6,178	0.80	2.81	7,488	5,990	0.80	2.97	7,254	5,803	0.80	3.14
24	18	8,268	5,622	0.68	2.86	8,034	5,463	0.68	3.02	7,761	5,277	0.68	3.23
24	20	8,892	4,980	0.56	2.95	8,697	4,870	0.56	3.09	8,463	4,739	0.56	3.30
24	22	9,477	4,170	0.44	3.02	9,282	4,084	0.44	3.19	9,048	3,981	0.44	3.40
26	16	7,722	6,795	0.88	2.81	7,488	6,589	0.88	2.97	7,254	6,384	0.88	3.14
26	18	8,268	6,284	0.76	2.86	8,034	6,106	0.76	3.02	7,761	5,898	0.76	3.23
26	20	8,892	5,691	0.64	2.95	8,697	5,566	0.64	3.09	8,463	5,416	0.64	3.30
26	22	9,477	4,928	0.52	3.02	9,282	4,827	0.52	3.19	9,048	4,705	0.52	3.40
28	16	7,722	7,413	0.96	2.81	7,488	7,188	0.96	2.97	7,254	6,964	0.96	3.14
28	18	8,268	6,945	0.84	2.86	8,034	6,749	0.84	3.02	7,761	6,519	0.84	3.23
28	20	8,892	6,402	0.72	2.95	8,697	6,262	0.72	3.09	8,463	6,093	0.72	3.30
28	22	9,477	5,686	0.60	3.02	9,282	5,569	0.60	3.19	9,048	5,429	0.60	3.40
30	16	7,722	7,722	1.00	2.81	7,488	7,488	1.00	2.97	7,254	7,254	1.00	3.14
30	18	8,268	7,607	0.92	2.86	8,034	7,391	0.92	3.02	7,761	7,140	0.92	3.23
30	20	8,892	7,114	0.80	2.95	8,697	6,958	0.80	3.09	8,463	6,770	0.80	3.30
30	22	9,477	6,444	0.68	3.02	9,282	6,312	0.68	3.19	9,048	6,153	0.68	3.40
32	16	7,722	7,722	1.00	2.81	7,488	7,488	1.00	2.97	7,254	7,254	1.00	3.14
32	18	8,268	8,268	1.00	2.86	8,034	8,034	1.00	3.02	7,761	7,761	1.00	3.23
32	20	8,892	7,825	0.88	2.95	8,697	7,653	0.88	3.09	8,463	7,447	0.88	3.30
32	22	9,477	7,203	0.76	3.02	9,282	7,054	0.76	3.19	9,048	6,876	0.76	3.40
34	16	7,722	7,722	1.00	2.81	7,488	7,488	1.00	2.97	7,254	7,254	1.00	3.14
34	18	8,268	8,268	1.00	2.86	8,034	8,034	1.00	3.02	7,761	7,761	1.00	3.23
34	20	8,892	8,536	0.96	2.95	8,697	8,349	0.96	3.09	8,463	8,124	0.96	3.30
34	22	9,477	7,961	0.84	3.02	9,282	7,797	0.84	3.19	9,048	7,600	0.84	3.40

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

COOLING CAPACITY (2)

PLH-P3AAH.UK / PUH-P3VGA, PUH-P3YGA (240V)

Indoor intake air DB (℃)	Indoor intake air WB (℃)	Outdoor intake air DB (℃)											
		35				40				45			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	6,942	4,443	0.64	3.37	6,630	4,243	0.64	3.62	6,318	4,044	0.64	3.91
20	18	7,488	3,894	0.52	3.46	7,254	3,772	0.52	3.72	6,786	3,529	0.52	4.00
20	20	8,112	3,245	0.40	3.55	7,800	3,120	0.40	3.79	7,332	2,933	0.40	4.07
22	16	6,942	4,998	0.72	3.37	6,630	4,774	0.72	3.62	6,318	4,549	0.72	3.91
22	18	7,488	4,493	0.60	3.46	7,254	4,352	0.60	3.72	6,786	4,072	0.60	4.00
22	20	8,112	3,894	0.48	3.55	7,800	3,744	0.48	3.79	7,332	3,519	0.48	4.07
24	16	6,942	5,554	0.80	3.37	6,630	5,304	0.80	3.62	6,318	5,054	0.80	3.91
24	18	7,488	5,092	0.68	3.46	7,254	4,933	0.68	3.72	6,786	4,614	0.68	4.00
24	20	8,112	4,543	0.56	3.55	7,800	4,368	0.56	3.79	7,332	4,106	0.56	4.07
24	22	8,736	3,844	0.44	3.62	8,424	3,707	0.44	3.90	7,956	3,501	0.44	4.14
26	16	6,942	6,109	0.88	3.37	6,630	5,834	0.88	3.62	6,318	5,560	0.88	3.91
26	18	7,488	5,691	0.76	3.46	7,254	5,513	0.76	3.72	6,786	5,157	0.76	4.00
26	20	8,112	5,192	0.64	3.55	7,800	4,992	0.64	3.79	7,332	4,692	0.64	4.07
26	22	8,736	4,543	0.52	3.62	8,424	4,380	0.52	3.90	7,956	4,137	0.52	4.14
28	16	6,942	6,664	0.96	3.37	6,630	6,365	0.96	3.62	6,318	6,065	0.96	3.91
28	18	7,488	6,290	0.84	3.46	7,254	6,093	0.84	3.72	6,786	5,700	0.84	4.00
28	20	8,112	5,841	0.72	3.55	7,800	5,616	0.72	3.79	7,332	5,279	0.72	4.07
28	22	8,736	5,242	0.60	3.62	8,424	5,054	0.60	3.90	7,956	4,774	0.60	4.14
30	16	6,942	6,942	1.00	3.37	6,630	6,630	1.00	3.62	6,318	6,318	1.00	3.91
30	18	7,488	6,889	0.92	3.46	7,254	6,674	0.92	3.72	6,786	6,243	0.92	4.00
30	20	8,112	6,490	0.80	3.55	7,800	6,240	0.80	3.79	7,332	5,866	0.80	4.07
30	22	8,736	5,940	0.68	3.62	8,424	5,728	0.68	3.90	7,956	5,410	0.68	4.14
32	16	6,942	6,942	1.00	3.37	6,630	6,630	1.00	3.62	6,318	6,318	1.00	3.91
32	18	7,488	7,488	1.00	3.46	7,254	7,254	1.00	3.72	6,786	6,786	1.00	4.00
32	20	8,112	7,139	0.88	3.55	7,800	6,864	0.88	3.79	7,332	6,452	0.88	4.07
32	22	8,736	6,639	0.76	3.62	8,424	6,402	0.76	3.90	7,956	6,047	0.76	4.14
34	16	6,942	6,942	1.00	3.37	6,630	6,630	1.00	3.62	6,318	6,318	1.00	3.91
34	18	7,488	7,488	1.00	3.46	7,254	7,254	1.00	3.72	6,786	6,786	1.00	4.00
34	20	8,112	7,788	0.96	3.55	7,800	7,488	0.96	3.79	7,332	7,039	0.96	4.07
34	22	8,736	7,338	0.84	3.62	8,424	7,076	0.84	3.90	7,956	6,683	0.84	4.14

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

COOLING CAPACITY (3)

PLH-P4AAH.UK / PUH-P4YGA

(240V)

Indoor intake air DB (°C)	Indoor intake air WB (°C)	Outdoor intake air DB (°C)											
		20				25				30			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	9,603	6,530	0.68	2.90	9,312	6,332	0.68	3.06	9,021	6,134	0.68	3.24
20	18	10,282	5,758	0.56	2.95	9,991	5,595	0.56	3.11	9,652	5,405	0.56	3.33
20	20	11,058	4,866	0.44	3.04	10,816	4,759	0.44	3.19	10,525	4,631	0.44	3.40
22	16	9,603	7,298	0.76	2.90	9,312	7,077	0.76	3.06	9,021	6,856	0.76	3.24
22	18	10,282	6,580	0.64	2.95	9,991	6,394	0.64	3.11	9,652	6,177	0.64	3.33
22	20	11,058	5,750	0.52	3.04	10,816	5,624	0.52	3.19	10,525	5,473	0.52	3.40
24	16	9,603	8,067	0.84	2.90	9,312	7,822	0.84	3.06	9,021	7,578	0.84	3.24
24	18	10,282	7,403	0.72	2.95	9,991	7,194	0.72	3.11	9,652	6,949	0.72	3.33
24	20	11,058	6,635	0.60	3.04	10,816	6,489	0.60	3.19	10,525	6,315	0.60	3.40
24	22	11,786	5,657	0.48	3.11	11,543	5,541	0.48	3.29	11,252	5,401	0.48	3.51
26	16	9,603	8,835	0.92	2.90	9,312	8,567	0.92	3.06	9,021	8,299	0.92	3.24
26	18	10,282	8,226	0.80	2.95	9,991	7,993	0.80	3.11	9,652	7,721	0.80	3.33
26	20	11,058	7,519	0.68	3.04	10,816	7,355	0.68	3.19	10,525	7,157	0.68	3.40
26	22	11,786	6,600	0.56	3.11	11,543	6,464	0.56	3.29	11,252	6,301	0.56	3.51
28	16	9,603	9,603	1.00	2.90	9,312	9,312	1.00	3.06	9,021	9,021	1.00	3.24
28	18	10,282	9,048	0.88	2.95	9,991	8,792	0.88	3.11	9,652	8,493	0.88	3.33
28	20	11,058	8,404	0.76	3.04	10,816	8,220	0.76	3.19	10,525	7,999	0.76	3.40
28	22	11,786	7,543	0.64	3.11	11,543	7,388	0.64	3.29	11,252	7,201	0.64	3.51
30	16	9,603	9,603	1.00	2.90	9,312	9,312	1.00	3.06	9,021	9,021	1.00	3.24
30	18	10,282	9,871	0.96	2.95	9,991	9,591	0.96	3.11	9,652	9,265	0.96	3.33
30	20	11,058	9,289	0.84	3.04	10,816	9,085	0.84	3.19	10,525	8,841	0.84	3.40
30	22	11,786	8,486	0.72	3.11	11,543	8,311	0.72	3.29	11,252	8,101	0.72	3.51
32	16	9,603	9,603	1.00	2.90	9,312	9,312	1.00	3.06	9,021	9,021	1.00	3.24
32	18	10,282	10,282	1.00	2.95	9,991	9,991	1.00	3.11	9,652	9,652	1.00	3.33
32	20	11,058	10,173	0.92	3.04	10,816	9,950	0.92	3.19	10,525	9,683	0.92	3.40
32	22	11,786	9,428	0.80	3.11	11,543	9,234	0.80	3.29	11,252	9,002	0.80	3.51
34	16	9,603	9,603	1.00	2.90	9,312	9,312	1.00	3.06	9,021	9,021	1.00	3.24
34	18	10,282	10,282	1.00	2.95	9,991	9,991	1.00	3.11	9,652	9,652	1.00	3.33
34	20	11,058	11,058	1.00	3.04	10,816	10,816	1.00	3.19	10,525	10,525	1.00	3.40
34	22	11,786	10,371	0.88	3.11	11,543	10,158	0.88	3.29	11,252	9,902	0.88	3.51

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

COOLING CAPACITY (4)

PLH-P4AAH.UK / PUH-P4YGA (240V)

Indoor intake air DB (℃)	Indoor intake air WB (℃)	Outdoor intake air DB (℃)											
		35				40				45			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	8,633	5,870	0.68	3.48	8,245	5,607	0.68	3.73	7,857	5,343	0.68	4.04
20	18	9,312	5,215	0.56	3.57	9,021	5,052	0.56	3.84	8,439	4,726	0.56	4.13
20	20	10,088	4,439	0.44	3.66	9,700	4,268	0.44	3.91	9,118	4,012	0.44	4.20
22	16	8,633	6,561	0.76	3.48	8,245	6,266	0.76	3.73	7,857	5,971	0.76	4.04
22	18	9,312	5,960	0.64	3.57	9,021	5,773	0.64	3.84	8,439	5,401	0.64	4.13
22	20	10,088	5,246	0.52	3.66	9,700	5,044	0.52	3.91	9,118	4,741	0.52	4.20
24	16	8,633	7,252	0.84	3.48	8,245	6,926	0.84	3.73	7,857	6,600	0.84	4.04
24	18	9,312	6,705	0.72	3.57	9,021	6,495	0.72	3.84	8,439	6,076	0.72	4.13
24	20	10,088	6,053	0.60	3.66	9,700	5,820	0.60	3.91	9,118	5,471	0.60	4.20
24	22	10,864	5,215	0.48	3.73	10,476	5,028	0.48	4.02	9,894	4,749	0.48	4.27
26	16	8,633	7,942	0.92	3.48	8,245	7,585	0.92	3.73	7,857	7,228	0.92	4.04
26	18	9,312	7,450	0.80	3.57	9,021	7,217	0.80	3.84	8,439	6,751	0.80	4.13
26	20	10,088	6,860	0.68	3.66	9,700	6,596	0.68	3.91	9,118	6,200	0.68	4.20
26	22	10,864	6,084	0.56	3.73	10,476	5,867	0.56	4.02	9,894	5,541	0.56	4.27
28	16	8,633	8,633	1.00	3.48	8,245	8,245	1.00	3.73	7,857	7,857	1.00	4.04
28	18	9,312	8,195	0.88	3.57	9,021	7,938	0.88	3.84	8,439	7,426	0.88	4.13
28	20	10,088	7,667	0.76	3.66	9,700	7,372	0.76	3.91	9,118	6,930	0.76	4.20
28	22	10,864	6,953	0.64	3.73	10,476	6,705	0.64	4.02	9,894	6,332	0.64	4.27
30	16	8,633	8,633	1.00	3.48	8,245	8,245	1.00	3.73	7,857	7,857	1.00	4.04
30	18	9,312	8,940	0.96	3.57	9,021	8,660	0.96	3.84	8,439	8,101	0.96	4.13
30	20	10,088	8,474	0.84	3.66	9,700	8,148	0.84	3.91	9,118	7,659	0.84	4.20
30	22	10,864	7,822	0.72	3.73	10,476	7,543	0.72	4.02	9,894	7,124	0.72	4.27
32	16	8,633	8,633	1.00	3.48	8,245	8,245	1.00	3.73	7,857	7,857	1.00	4.04
32	18	9,312	9,312	1.00	3.57	9,021	9,021	1.00	3.84	8,439	8,439	1.00	4.13
32	20	10,088	9,281	0.92	3.66	9,700	8,924	0.92	3.91	9,118	8,389	0.92	4.20
32	22	10,864	8,691	0.80	3.73	10,476	8,381	0.80	4.02	9,894	7,915	0.80	4.27
34	16	8,633	8,633	1.00	3.48	8,245	8,245	1.00	3.73	7,857	7,857	1.00	4.04
34	18	9,312	9,312	1.00	3.57	9,021	9,021	1.00	3.84	8,439	8,439	1.00	4.13
34	20	10,088	10,088	1.00	3.66	9,700	9,700	1.00	3.91	9,118	9,118	1.00	4.20
34	22	10,864	9,560	0.88	3.73	10,476	9,219	0.88	4.02	9,894	8,707	0.88	4.27

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

COOLING CAPACITY (5)

PLH-P5AAH.UK / PUH-P5YGA (240V)

Indoor intake air DB (℃)	Indoor intake air WB (℃)	Outdoor intake air DB (℃)											
		20				25				30			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	12,672	7,857	0.62	4.44	12,288	7,619	0.62	4.69	11,904	7,380	0.62	4.97
20	18	13,568	6,784	0.50	4.52	13,184	6,592	0.50	4.77	12,736	6,368	0.50	5.11
20	20	14,592	5,545	0.38	4.66	14,272	5,423	0.38	4.88	13,888	5,277	0.38	5.22
22	16	12,672	8,870	0.70	4.44	12,288	8,602	0.70	4.69	11,904	8,333	0.70	4.97
22	18	13,568	7,869	0.58	4.52	13,184	7,647	0.58	4.77	12,736	7,387	0.58	5.11
22	20	14,592	6,712	0.46	4.66	14,272	6,565	0.46	4.88	13,888	6,388	0.46	5.22
24	16	12,672	9,884	0.78	4.44	12,288	9,585	0.78	4.69	11,904	9,285	0.78	4.97
24	18	13,568	8,955	0.66	4.52	13,184	8,701	0.66	4.77	12,736	8,406	0.66	5.11
24	20	14,592	7,880	0.54	4.66	14,272	7,707	0.54	4.88	13,888	7,500	0.54	5.22
24	22	15,552	6,532	0.42	4.77	15,232	6,397	0.42	5.05	14,848	6,236	0.42	5.38
26	16	12,672	10,898	0.86	4.44	12,288	10,568	0.86	4.69	11,904	10,237	0.86	4.97
26	18	13,568	10,040	0.74	4.52	13,184	9,756	0.74	4.77	12,736	9,425	0.74	5.11
26	20	14,592	9,047	0.62	4.66	14,272	8,849	0.62	4.88	13,888	8,611	0.62	5.22
26	22	15,552	7,776	0.50	4.77	15,232	7,616	0.50	5.05	14,848	7,424	0.50	5.38
28	16	12,672	11,912	0.94	4.44	12,288	11,551	0.94	4.69	11,904	11,190	0.94	4.97
28	18	13,568	11,126	0.82	4.52	13,184	10,811	0.82	4.77	12,736	10,444	0.82	5.11
28	20	14,592	10,214	0.70	4.66	14,272	9,990	0.70	4.88	13,888	9,722	0.70	5.22
28	22	15,552	9,020	0.58	4.77	15,232	8,835	0.58	5.05	14,848	8,612	0.58	5.38
30	16	12,672	12,672	1.00	4.44	12,288	12,288	1.00	4.69	11,904	11,904	1.00	4.97
30	18	13,568	12,211	0.90	4.52	13,184	11,866	0.90	4.77	12,736	11,462	0.90	5.11
30	20	14,592	11,382	0.78	4.66	14,272	11,132	0.78	4.88	13,888	10,833	0.78	5.22
30	22	15,552	10,264	0.66	4.77	15,232	10,053	0.66	5.05	14,848	9,800	0.66	5.38
32	16	12,672	12,672	1.00	4.44	12,288	12,288	1.00	4.69	11,904	11,904	1.00	4.97
32	18	13,568	13,297	0.98	4.52	13,184	12,920	0.98	4.77	12,736	12,481	0.98	5.11
32	20	14,592	12,549	0.86	4.66	14,272	12,274	0.86	4.88	13,888	11,944	0.86	5.22
32	22	15,552	11,508	0.74	4.77	15,232	11,272	0.74	5.05	14,848	10,988	0.74	5.38
34	16	12,672	12,672	1.00	4.44	12,288	12,288	1.00	4.69	11,904	11,904	1.00	4.97
34	18	13,568	13,568	1.00	4.52	13,184	13,184	1.00	4.77	12,736	12,736	1.00	5.11
34	20	14,592	13,716	0.94	4.66	14,272	13,416	0.94	4.88	13,888	13,055	0.94	5.22
34	22	15,552	12,753	0.82	4.77	15,232	12,490	0.82	5.05	14,848	12,175	0.82	5.38

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

COOLING CAPACITY (6)

PLH-P5AAH.UK / PUH-P5YGA

(240V)

Indoor intake air DB (°C)	Indoor intake air WB (°C)	Outdoor intake air DB (°C)											
		35				40				45			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	11,392	7,063	0.62	5.33	10,880	6,746	0.62	5.72	10,368	6,428	0.62	6.19
20	18	12,288	6,144	0.50	5.47	11,904	5,952	0.50	5.88	11,136	5,568	0.50	6.33
20	20	13,312	5,059	0.38	5.61	12,800	4,864	0.38	5.99	12,032	4,572	0.38	6.44
22	16	11,392	7,974	0.70	5.33	10,880	7,616	0.70	5.72	10,368	7,258	0.70	6.19
22	18	12,288	7,127	0.58	5.47	11,904	6,904	0.58	5.88	11,136	6,459	0.58	6.33
22	20	13,312	6,124	0.46	5.61	12,800	5,888	0.46	5.99	12,032	5,535	0.46	6.44
24	16	11,392	8,886	0.78	5.33	10,880	8,486	0.78	5.72	10,368	8,087	0.78	6.19
24	18	12,288	8,110	0.66	5.47	11,904	7,857	0.66	5.88	11,136	7,350	0.66	6.33
24	20	13,312	7,188	0.54	5.61	12,800	6,912	0.54	5.99	12,032	6,497	0.54	6.44
24	22	14,336	6,021	0.42	5.72	13,824	5,806	0.42	6.16	13,056	5,484	0.42	6.55
26	16	11,392	9,797	0.86	5.33	10,880	9,357	0.86	5.72	10,368	8,916	0.86	6.19
26	18	12,288	9,093	0.74	5.47	11,904	8,809	0.74	5.88	11,136	8,241	0.74	6.33
26	20	13,312	8,253	0.62	5.61	12,800	7,936	0.62	5.99	12,032	7,460	0.62	6.44
26	22	14,336	7,168	0.50	5.72	13,824	6,912	0.50	6.16	13,056	6,528	0.50	6.55
28	16	11,392	10,708	0.94	5.33	10,880	10,227	0.94	5.72	10,368	9,746	0.94	6.19
28	18	12,288	10,076	0.82	5.47	11,904	9,761	0.82	5.88	11,136	9,132	0.82	6.33
28	20	13,312	9,318	0.70	5.61	12,800	8,960	0.70	5.99	12,032	8,422	0.70	6.44
28	22	14,336	8,315	0.58	5.72	13,824	8,018	0.58	6.16	13,056	7,572	0.58	6.55
30	16	11,392	11,392	1.00	5.33	10,880	10,880	1.00	5.72	10,368	10,368	1.00	6.19
30	18	12,288	11,059	0.90	5.47	11,904	10,714	0.90	5.88	11,136	10,022	0.90	6.33
30	20	13,312	10,383	0.78	5.61	12,800	9,984	0.78	5.99	12,032	9,385	0.78	6.44
30	22	14,336	9,462	0.66	5.72	13,824	9,124	0.66	6.16	13,056	8,617	0.66	6.55
32	16	11,392	11,392	1.00	5.33	10,880	10,880	1.00	5.72	10,368	10,368	1.00	6.19
32	18	12,288	12,042	0.98	5.47	11,904	11,666	0.98	5.88	11,136	10,913	0.98	6.33
32	20	13,312	11,448	0.86	5.61	12,800	11,008	0.86	5.99	12,032	10,348	0.86	6.44
32	22	14,336	10,609	0.74	5.72	13,824	10,230	0.74	6.16	13,056	9,661	0.74	6.55
34	16	11,392	11,392	1.00	5.33	10,880	10,880	1.00	5.72	10,368	10,368	1.00	6.19
34	18	12,288	12,288	1.00	5.47	11,904	11,904	1.00	5.88	11,136	11,136	1.00	6.33
34	20	13,312	12,513	0.94	5.61	12,800	12,032	0.94	5.99	12,032	11,310	0.94	6.44
34	22	14,336	11,756	0.82	5.72	13,824	11,336	0.82	6.16	13,056	10,706	0.82	6.55

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

COOLING CAPACITY (7)

PLH-P6AAH.UK / PUH-P6YGA (240V)

Indoor intake air DB (°C)	Indoor intake air WB (°C)	Outdoor intake air DB (°C)											
		20				25				30			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	14,157	8,353	0.59	5.36	13,728	8,100	0.59	5.66	13,299	7,846	0.59	6.00
20	18	15,158	7,124	0.47	5.46	14,729	6,923	0.47	5.76	14,229	6,687	0.47	6.16
20	20	16,302	5,706	0.35	5.63	15,945	5,581	0.35	5.90	15,516	5,430	0.35	6.30
22	16	14,157	9,485	0.67	5.36	13,728	9,198	0.67	5.66	13,299	8,910	0.67	6.00
22	18	15,158	8,337	0.55	5.46	14,729	8,101	0.55	5.76	14,229	7,826	0.55	6.16
22	20	16,302	7,010	0.43	5.63	15,945	6,856	0.43	5.90	15,516	6,672	0.43	6.30
24	16	14,157	10,618	0.75	5.36	13,728	10,296	0.75	5.66	13,299	9,974	0.75	6.00
24	18	15,158	9,550	0.63	5.46	14,729	9,279	0.63	5.76	14,229	8,964	0.63	6.16
24	20	16,302	8,314	0.51	5.63	15,945	8,132	0.51	5.90	15,516	7,913	0.51	6.30
24	22	17,375	6,776	0.39	5.76	17,017	6,637	0.39	6.10	16,588	6,469	0.39	6.50
26	16	14,157	11,750	0.83	5.36	13,728	11,394	0.83	5.66	13,299	11,038	0.83	6.00
26	18	15,158	10,762	0.71	5.46	14,729	10,458	0.71	5.76	14,229	10,102	0.71	6.16
26	20	16,302	9,618	0.59	5.63	15,945	9,407	0.59	5.90	15,516	9,154	0.59	6.30
26	22	17,375	8,166	0.47	5.76	17,017	7,998	0.47	6.10	16,588	7,796	0.47	6.50
28	16	14,157	12,883	0.91	5.36	13,728	12,492	0.91	5.66	13,299	12,102	0.91	6.00
28	18	15,158	11,975	0.79	5.46	14,729	11,636	0.79	5.76	14,229	11,241	0.79	6.16
28	20	16,302	10,922	0.67	5.63	15,945	10,683	0.67	5.90	15,516	10,395	0.67	6.30
28	22	17,375	9,556	0.55	5.76	17,017	9,359	0.55	6.10	16,588	9,123	0.55	6.50
30	16	14,157	14,015	0.99	5.36	13,728	13,591	0.99	5.66	13,299	13,166	0.99	6.00
30	18	15,158	13,187	0.87	5.46	14,729	12,814	0.87	5.76	14,229	12,379	0.87	6.16
30	20	16,302	12,227	0.75	5.63	15,945	11,958	0.75	5.90	15,516	11,637	0.75	6.30
30	22	17,375	10,946	0.63	5.76	17,017	10,721	0.63	6.10	16,588	10,450	0.63	6.50
32	16	14,157	14,157	1.00	5.36	13,728	13,728	1.00	5.66	13,299	13,299	1.00	6.00
32	18	15,158	14,400	0.95	5.46	14,729	13,993	0.95	5.76	14,229	13,517	0.95	6.16
32	20	16,302	13,531	0.83	5.63	15,945	13,234	0.83	5.90	15,516	12,878	0.83	6.30
32	22	17,375	12,336	0.71	5.76	17,017	12,082	0.71	6.10	16,588	11,777	0.71	6.50
34	16	14,157	14,157	1.00	5.36	13,728	13,728	1.00	5.66	13,299	13,299	1.00	6.00
34	18	15,158	15,158	1.00	5.46	14,729	14,729	1.00	5.76	14,229	14,229	1.00	6.16
34	20	16,302	14,835	0.91	5.63	15,945	14,509	0.91	5.90	15,516	14,119	0.91	6.30
34	22	17,375	13,726	0.79	5.76	17,017	13,443	0.79	6.10	16,588	13,105	0.79	6.50

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

COOLING CAPACITY (8)

PLH-P6AAH.UK / PUH-P6YGA (240V)

Indoor intake air DB (℃)	Indoor intake air WB (℃)	Outdoor intake air DB (℃)											
		35				40				45			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	12,727	7,509	0.59	6.43	12,155	7,171	0.59	6.90	11,583	6,834	0.59	7.47
20	18	13,728	6,452	0.47	6.60	13,299	6,251	0.47	7.10	12,441	5,847	0.47	7.64
20	20	14,872	5,205	0.35	6.77	14,300	5,005	0.35	7.24	13,442	4,705	0.35	7.77
22	16	12,727	8,527	0.67	6.43	12,155	8,144	0.67	6.90	11,583	7,761	0.67	7.47
22	18	13,728	7,550	0.55	6.60	13,299	7,314	0.55	7.10	12,441	6,843	0.55	7.64
22	20	14,872	6,395	0.43	6.77	14,300	6,149	0.43	7.24	13,442	5,780	0.43	7.77
24	16	12,727	9,545	0.75	6.43	12,155	9,116	0.75	6.90	11,583	8,687	0.75	7.47
24	18	13,728	8,649	0.63	6.60	13,299	8,378	0.63	7.10	12,441	7,838	0.63	7.64
24	20	14,872	7,585	0.51	6.77	14,300	7,293	0.51	7.24	13,442	6,855	0.51	7.77
24	22	16,016	6,246	0.39	6.90	15,444	6,023	0.39	7.44	14,586	5,689	0.39	7.91
26	16	12,727	10,563	0.83	6.43	12,155	10,089	0.83	6.90	11,583	9,614	0.83	7.47
26	18	13,728	9,747	0.71	6.60	13,299	9,442	0.71	7.10	12,441	8,833	0.71	7.64
26	20	14,872	8,774	0.59	6.77	14,300	8,437	0.59	7.24	13,442	7,931	0.59	7.77
26	22	16,016	7,528	0.47	6.90	15,444	7,259	0.47	7.44	14,586	6,855	0.47	7.91
28	16	12,727	11,582	0.91	6.43	12,155	11,061	0.91	6.90	11,583	10,541	0.91	7.47
28	18	13,728	10,845	0.79	6.60	13,299	10,506	0.79	7.10	12,441	9,828	0.79	7.64
28	20	14,872	9,964	0.67	6.77	14,300	9,581	0.67	7.24	13,442	9,006	0.67	7.77
28	22	16,016	8,809	0.55	6.90	15,444	8,494	0.55	7.44	14,586	8,022	0.55	7.91
30	16	12,727	12,600	0.99	6.43	12,155	12,033	0.99	6.90	11,583	11,467	0.99	7.47
30	18	13,728	11,943	0.87	6.60	13,299	11,570	0.87	7.10	12,441	10,824	0.87	7.64
30	20	14,872	11,154	0.75	6.77	14,300	10,725	0.75	7.24	13,442	10,082	0.75	7.77
30	22	16,016	10,090	0.63	6.90	15,444	9,730	0.63	7.44	14,586	9,189	0.63	7.91
32	16	12,727	12,727	1.00	6.43	12,155	12,155	1.00	6.90	11,583	11,583	1.00	7.47
32	18	13,728	13,042	0.95	6.60	13,299	12,634	0.95	7.10	12,441	11,819	0.95	7.64
32	20	14,872	12,344	0.83	6.77	14,300	11,869	0.83	7.24	13,442	11,157	0.83	7.77
32	22	16,016	11,371	0.71	6.90	15,444	10,965	0.71	7.44	14,586	10,356	0.71	7.91
34	16	12,727	12,727	1.00	6.43	12,155	12,155	1.00	6.90	11,583	11,583	1.00	7.47
34	18	13,728	13,728	1.00	6.60	13,299	13,299	1.00	7.10	12,441	12,441	1.00	7.64
34	20	14,872	13,534	0.91	6.77	14,300	13,013	0.91	7.24	13,442	12,232	0.91	7.77
34	22	16,016	12,653	0.79	6.90	15,444	12,201	0.79	7.44	14,586	11,523	0.79	7.91

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

COOLING CAPACITY (9)

PLH-P3AAH.UK, PLH-P3AAH1.UK / PUH-P3VGAA.UK, PUH-P3YGAA.UK (240V)

Indoor intake air DB (℃)	Indoor intake air WB (℃)	Outdoor intake air DB (℃)											
		20				25				30			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	7,722	4,942	0.64	2.75	7,488	4,792	0.64	2.91	7,254	4,643	0.64	3.08
20	18	8,268	4,299	0.52	2.80	8,034	4,178	0.52	2.96	7,761	4,036	0.52	3.16
20	20	8,892	3,557	0.40	2.89	8,697	3,479	0.40	3.03	8,463	3,385	0.40	3.23
22	16	7,722	5,560	0.72	2.75	7,488	5,391	0.72	2.91	7,254	5,223	0.72	3.08
22	18	8,268	4,961	0.60	2.80	8,034	4,820	0.60	2.96	7,761	4,657	0.60	3.16
22	20	8,892	4,268	0.48	2.89	8,697	4,175	0.48	3.03	8,463	4,062	0.48	3.23
24	16	7,722	6,178	0.80	2.75	7,488	5,990	0.80	2.91	7,254	5,803	0.80	3.08
24	18	8,268	5,622	0.68	2.80	8,034	5,463	0.68	2.96	7,761	5,277	0.68	3.16
24	20	8,892	4,980	0.56	2.89	8,697	4,870	0.56	3.03	8,463	4,739	0.56	3.23
26	16	7,722	6,795	0.88	2.75	7,488	6,589	0.88	2.91	7,254	6,384	0.88	3.08
26	18	8,268	6,284	0.76	2.80	8,034	6,106	0.76	2.96	7,761	5,898	0.76	3.16
26	20	8,892	5,691	0.64	2.89	8,697	5,566	0.64	3.03	8,463	5,416	0.64	3.23
28	16	7,722	7,413	0.96	2.75	7,488	7,188	0.96	2.91	7,254	6,964	0.96	3.08
28	18	8,268	6,945	0.84	2.80	8,034	6,749	0.84	2.96	7,761	6,519	0.84	3.16
28	20	8,892	6,402	0.72	2.89	8,697	6,262	0.72	3.03	8,463	6,093	0.72	3.23
30	16	7,722	7,722	1.00	2.75	7,488	7,488	1.00	2.91	7,254	7,254	1.00	3.08
30	18	8,268	7,607	0.92	2.80	8,034	7,391	0.92	2.96	7,761	7,140	0.92	3.16
30	20	8,892	7,114	0.80	2.89	8,697	6,958	0.80	3.03	8,463	6,770	0.80	3.23
32	16	7,722	7,722	1.00	2.75	7,488	7,488	1.00	2.91	7,254	7,254	1.00	3.08
32	18	8,268	8,268	1.00	2.80	8,034	8,034	1.00	2.96	7,761	7,761	1.00	3.16
32	20	8,892	7,825	0.88	2.89	8,697	7,653	0.88	3.03	8,463	7,447	0.88	3.23
34	16	7,722	7,722	1.00	2.75	7,488	7,488	1.00	2.91	7,254	7,254	1.00	3.08
34	18	8,268	8,268	1.00	2.80	8,034	8,034	1.00	2.96	7,761	7,761	1.00	3.16
34	20	8,892	8,536	0.96	2.89	8,697	8,349	0.96	3.03	8,463	8,124	0.96	3.23

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

COOLING CAPACITY (10)

PLH-P3AAH.UK, PLH-P3AAH1.UK / PUH-P3VGAA.UK, PUH-P3YGAA.UK (240V)

Indoor intake air DB (℃)	Indoor intake air WB (℃)	Outdoor intake air DB (℃)											
		35				40				45			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	6,942	4,443	0.64	3.30	6,630	4,243	0.64	3.54	6,318	4,044	0.64	3.84
20	18	7,488	3,894	0.52	3.39	7,254	3,772	0.52	3.65	6,786	3,529	0.52	3.92
20	20	8,112	3,245	0.40	3.47	7,800	3,120	0.40	3.72	7,332	2,933	0.40	3.99
22	16	6,942	4,998	0.72	3.30	6,630	4,774	0.72	3.54	6,318	4,549	0.72	3.84
22	18	7,488	4,493	0.60	3.39	7,254	4,352	0.60	3.65	6,786	4,072	0.60	3.92
22	20	8,112	3,894	0.48	3.47	7,800	3,744	0.48	3.72	7,332	3,519	0.48	3.99
24	16	6,942	5,554	0.80	3.30	6,630	5,304	0.80	3.54	6,318	5,054	0.80	3.84
24	18	7,488	5,092	0.68	3.39	7,254	4,933	0.68	3.65	6,786	4,614	0.68	3.92
24	20	8,112	4,543	0.56	3.47	7,800	4,368	0.56	3.72	7,332	4,106	0.56	3.99
26	16	6,942	6,109	0.88	3.30	6,630	5,834	0.88	3.54	6,318	5,560	0.88	3.84
26	18	7,488	5,691	0.76	3.39	7,254	5,513	0.76	3.65	6,786	5,157	0.76	3.92
26	20	8,112	5,192	0.64	3.47	7,800	4,992	0.64	3.72	7,332	4,692	0.64	3.99
28	16	6,942	6,664	0.96	3.30	6,630	6,365	0.96	3.54	6,318	6,065	0.96	3.84
28	18	7,488	6,290	0.84	3.39	7,254	6,093	0.84	3.65	6,786	5,700	0.84	3.92
28	20	8,112	5,841	0.72	3.47	7,800	5,616	0.72	3.72	7,332	5,279	0.72	3.99
30	16	6,942	6,942	1.00	3.30	6,630	6,630	1.00	3.54	6,318	6,318	1.00	3.84
30	18	7,488	6,889	0.92	3.39	7,254	6,674	0.92	3.65	6,786	6,243	0.92	3.92
30	20	8,112	6,490	0.80	3.47	7,800	6,240	0.80	3.72	7,332	5,866	0.80	3.99
32	16	6,942	6,942	1.00	3.30	6,630	6,630	1.00	3.54	6,318	6,318	1.00	3.84
32	18	7,488	7,488	1.00	3.39	7,254	7,254	1.00	3.65	6,786	6,786	1.00	3.92
32	20	8,112	7,139	0.88	3.47	7,800	6,864	0.88	3.72	7,332	6,452	0.88	3.99
34	16	6,942	6,942	1.00	3.30	6,630	6,630	1.00	3.54	6,318	6,318	1.00	3.84
34	18	7,488	7,488	1.00	3.39	7,254	7,254	1.00	3.65	6,786	6,786	1.00	3.92
34	20	8,112	7,788	0.96	3.47	7,800	7,488	0.96	3.72	7,332	7,039	0.96	3.99

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

COOLING CAPACITY (11)

PLH-P4AAH.UK, PLH-P4AAH1.UK / PUH-P4VGAA.UK, PUH-P4YGAA.UK (240V)

Indoor intake air DB (℃)	Indoor intake air WB (℃)	Outdoor intake air DB (℃)											
		20				25				30			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	9,603	6,530	0.68	2.95	9,312	6,332	0.68	3.12	9,021	6,134	0.68	3.30
20	18	10,282	5,758	0.56	3.01	9,991	5,595	0.56	3.17	9,652	5,405	0.56	3.39
20	20	11,058	4,866	0.44	3.10	10,816	4,759	0.44	3.25	10,525	4,631	0.44	3.47
22	16	9,603	7,298	0.76	2.95	9,312	7,077	0.76	3.12	9,021	6,856	0.76	3.30
22	18	10,282	6,580	0.64	3.01	9,991	6,394	0.64	3.17	9,652	6,177	0.64	3.39
22	20	11,058	5,750	0.52	3.10	10,816	5,624	0.52	3.25	10,525	5,473	0.52	3.47
24	16	9,603	8,067	0.84	2.95	9,312	7,822	0.84	3.12	9,021	7,578	0.84	3.30
24	18	10,282	7,403	0.72	3.01	9,991	7,194	0.72	3.17	9,652	6,949	0.72	3.39
24	20	11,058	6,635	0.60	3.10	10,816	6,489	0.60	3.25	10,525	6,315	0.60	3.47
26	16	9,603	8,835	0.92	2.95	9,312	8,567	0.92	3.12	9,021	8,299	0.92	3.30
26	18	10,282	8,226	0.80	3.01	9,991	7,993	0.80	3.17	9,652	7,721	0.80	3.39
26	20	11,058	7,519	0.68	3.10	10,816	7,355	0.68	3.25	10,525	7,157	0.68	3.47
28	16	9,603	9,603	1.00	2.95	9,312	9,312	1.00	3.12	9,021	9,021	1.00	3.30
28	18	10,282	9,048	0.88	3.01	9,991	8,792	0.88	3.17	9,652	8,493	0.88	3.39
28	20	11,058	8,404	0.76	3.10	10,816	8,220	0.76	3.25	10,525	7,999	0.76	3.47
30	16	9,603	9,603	1.00	2.95	9,312	9,312	1.00	3.12	9,021	9,021	1.00	3.30
30	18	10,282	9,871	0.96	3.01	9,991	9,591	0.96	3.17	9,652	9,265	0.96	3.39
30	20	11,058	9,289	0.84	3.10	10,816	9,085	0.84	3.25	10,525	8,841	0.84	3.47
32	16	9,603	9,603	1.00	2.95	9,312	9,312	1.00	3.12	9,021	9,021	1.00	3.30
32	18	10,282	10,282	1.00	3.01	9,991	9,991	1.00	3.17	9,652	9,652	1.00	3.39
32	20	11,058	10,173	0.92	3.10	10,816	9,950	0.92	3.25	10,525	9,683	0.92	3.47
34	16	9,603	9,603	1.00	2.95	9,312	9,312	1.00	3.12	9,021	9,021	1.00	3.30
34	18	10,282	10,282	1.00	3.01	9,991	9,991	1.00	3.17	9,652	9,652	1.00	3.39
34	20	11,058	11,058	1.00	3.10	10,816	10,816	1.00	3.25	10,525	10,525	1.00	3.47

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

COOLING CAPACITY (12)

PLH-P4AAH.UK, PLH-P4AAH$_1$.UK / PUH-P4VGAA.UK, PUH-P4YGAA.UK (240V)

Indoor intake air DB (℃)	Indoor intake air WB (℃)	Outdoor intake air DB (℃)											
		35				40				45			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	8,633	5,870	0.68	3.54	8,245	5,607	0.68	3.80	7,857	5,343	0.68	4.11
20	18	9,312	5,215	0.56	3.63	9,021	5,052	0.56	3.91	8,439	4,726	0.56	4.21
20	20	10,088	4,439	0.44	3.73	9,700	4,268	0.44	3.99	9,118	4,012	0.44	4.28
22	16	8,633	6,561	0.76	3.54	8,245	6,266	0.76	3.80	7,857	5,971	0.76	4.11
22	18	9,312	5,960	0.64	3.63	9,021	5,773	0.64	3.91	8,439	5,401	0.64	4.21
22	20	10,088	5,246	0.52	3.73	9,700	5,044	0.52	3.99	9,118	4,741	0.52	4.28
24	16	8,633	7,252	0.84	3.54	8,245	6,926	0.84	3.80	7,857	6,600	0.84	4.11
24	18	9,312	6,705	0.72	3.63	9,021	6,495	0.72	3.91	8,439	6,076	0.72	4.21
24	20	10,088	6,053	0.60	3.73	9,700	5,820	0.60	3.99	9,118	5,471	0.60	4.28
26	16	8,633	7,942	0.92	3.54	8,245	7,585	0.92	3.80	7,857	7,228	0.92	4.11
26	18	9,312	7,450	0.80	3.63	9,021	7,217	0.80	3.91	8,439	6,751	0.80	4.21
26	20	10,088	6,860	0.68	3.73	9,700	6,596	0.68	3.99	9,118	6,200	0.68	4.28
28	16	8,633	8,633	1.00	3.54	8,245	8,245	1.00	3.80	7,857	7,857	1.00	4.11
28	18	9,312	8,195	0.88	3.63	9,021	7,938	0.88	3.91	8,439	7,426	0.88	4.21
28	20	10,088	7,667	0.76	3.73	9,700	7,372	0.76	3.99	9,118	6,930	0.76	4.28
30	16	8,633	8,633	1.00	3.54	8,245	8,245	1.00	3.80	7,857	7,857	1.00	4.11
30	18	9,312	8,940	0.96	3.63	9,021	8,660	0.96	3.91	8,439	8,101	0.96	4.21
30	20	10,088	8,474	0.84	3.73	9,700	8,148	0.84	3.99	9,118	7,659	0.84	4.28
32	16	8,633	8,633	1.00	3.54	8,245	8,245	1.00	3.80	7,857	7,857	1.00	4.11
32	18	9,312	9,312	1.00	3.63	9,021	9,021	1.00	3.91	8,439	8,439	1.00	4.21
32	20	10,088	9,281	0.92	3.73	9,700	8,924	0.92	3.99	9,118	8,389	0.92	4.28
34	16	8,633	8,633	1.00	3.54	8,245	8,245	1.00	3.80	7,857	7,857	1.00	4.11
34	18	9,312	9,312	1.00	3.63	9,021	9,021	1.00	3.91	8,439	8,439	1.00	4.21
34	20	10,088	10,088	1.00	3.73	9,700	9,700	1.00	3.99	9,118	9,118	1.00	4.28

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

COOLING CAPACITY (13)

PLH-P5AAH.UK, PLH-P5AAH1.UK / PUH-P5YGAA.UK

(240V)

Indoor intake air DB (℃)	Indoor intake air WB (℃)	Outdoor intake air DB (℃)											
		20				25				30			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	12,672	7,857	0.62	4.00	12,288	7,619	0.62	4.23	11,904	7,380	0.62	4.48
20	18	13,568	6,784	0.50	4.08	13,184	6,592	0.50	4.30	12,736	6,368	0.50	4.60
20	20	14,592	5,545	0.38	4.20	14,272	5,423	0.38	4.40	13,888	5,277	0.38	4.70
22	16	12,672	8,870	0.70	4.00	12,288	8,602	0.70	4.23	11,904	8,333	0.70	4.48
22	18	13,568	7,869	0.58	4.08	13,184	7,647	0.58	4.30	12,736	7,387	0.58	4.60
22	20	14,592	6,712	0.46	4.20	14,272	6,565	0.46	4.40	13,888	6,388	0.46	4.70
24	16	12,672	9,884	0.78	4.00	12,288	9,585	0.78	4.23	11,904	9,285	0.78	4.48
24	18	13,568	8,955	0.66	4.08	13,184	8,701	0.66	4.30	12,736	8,406	0.66	4.60
24	20	14,592	7,880	0.54	4.20	14,272	7,707	0.54	4.40	13,888	7,500	0.54	4.70
26	16	12,672	10,898	0.86	4.00	12,288	10,568	0.86	4.23	11,904	10,237	0.86	4.48
26	18	13,568	10,040	0.74	4.08	13,184	9,756	0.74	4.30	12,736	9,425	0.74	4.60
26	20	14,592	9,047	0.62	4.20	14,272	8,849	0.62	4.40	13,888	8,611	0.62	4.70
28	16	12,672	11,912	0.94	4.00	12,288	11,551	0.94	4.23	11,904	11,190	0.94	4.48
28	18	13,568	11,126	0.82	4.08	13,184	10,811	0.82	4.30	12,736	10,444	0.82	4.60
28	20	14,592	10,214	0.70	4.20	14,272	9,990	0.70	4.40	13,888	9,722	0.70	4.70
30	16	12,672	12,672	1.00	4.00	12,288	12,288	1.00	4.23	11,904	11,904	1.00	4.48
30	18	13,568	12,211	0.90	4.08	13,184	11,866	0.90	4.30	12,736	11,462	0.90	4.60
30	20	14,592	11,382	0.78	4.20	14,272	11,132	0.78	4.40	13,888	10,833	0.78	4.70
32	16	12,672	12,672	1.00	4.00	12,288	12,288	1.00	4.23	11,904	11,904	1.00	4.48
32	18	13,568	13,297	0.98	4.08	13,184	12,920	0.98	4.30	12,736	12,481	0.98	4.60
32	20	14,592	12,549	0.86	4.20	14,272	12,274	0.86	4.40	13,888	11,944	0.86	4.70
34	16	12,672	12,672	1.00	4.00	12,288	12,288	1.00	4.23	11,904	11,904	1.00	4.48
34	18	13,568	13,568	1.00	4.08	13,184	13,184	1.00	4.30	12,736	12,736	1.00	4.60
34	20	14,592	13,716	0.94	4.20	14,272	13,416	0.94	4.40	13,888	13,055	0.94	4.70

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

COOLING CAPACITY (14)

PLH-P5AAH.UK, PLH-P5AAH$_1$.UK / PUH-P5YGAA.UK

(240V)

Indoor intake air DB (℃)	Indoor intake air WB (℃)	Outdoor intake air DB (℃)											
		35				40				45			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	11,392	7,063	0.62	4.80	10,880	6,746	0.62	5.15	10,368	6,428	0.62	5.58
20	18	12,288	6,144	0.50	4.93	11,904	5,952	0.50	5.30	11,136	5,568	0.50	5.70
20	20	13,312	5,059	0.38	5.05	12,800	4,864	0.38	5.40	12,032	4,572	0.38	5.80
22	16	11,392	7,974	0.70	4.80	10,880	7,616	0.70	5.15	10,368	7,258	0.70	5.58
22	18	12,288	7,127	0.58	4.93	11,904	6,904	0.58	5.30	11,136	6,459	0.58	5.70
22	20	13,312	6,124	0.46	5.05	12,800	5,888	0.46	5.40	12,032	5,535	0.46	5.80
24	16	11,392	8,886	0.78	4.80	10,880	8,486	0.78	5.15	10,368	8,087	0.78	5.58
24	18	12,288	8,110	0.66	4.93	11,904	7,857	0.66	5.30	11,136	7,350	0.66	5.70
24	20	13,312	7,188	0.54	5.05	12,800	6,912	0.54	5.40	12,032	6,497	0.54	5.80
26	16	11,392	9,797	0.86	4.80	10,880	9,357	0.86	5.15	10,368	8,916	0.86	5.58
26	18	12,288	9,093	0.74	4.93	11,904	8,809	0.74	5.30	11,136	8,241	0.74	5.70
26	20	13,312	8,253	0.62	5.05	12,800	7,936	0.62	5.40	12,032	7,460	0.62	5.80
28	16	11,392	10,708	0.94	4.80	10,880	10,227	0.94	5.15	10,368	9,746	0.94	5.58
28	18	12,288	10,076	0.82	4.93	11,904	9,761	0.82	5.30	11,136	9,132	0.82	5.70
28	20	13,312	9,318	0.70	5.05	12,800	8,960	0.70	5.40	12,032	8,422	0.70	5.80
30	16	11,392	11,392	1.00	4.80	10,880	10,880	1.00	5.15	10,368	10,368	1.00	5.58
30	18	12,288	11,059	0.90	4.93	11,904	10,714	0.90	5.30	11,136	10,022	0.90	5.70
30	20	13,312	10,383	0.78	5.05	12,800	9,984	0.78	5.40	12,032	9,385	0.78	5.80
32	16	11,392	11,392	1.00	4.80	10,880	10,880	1.00	5.15	10,368	10,368	1.00	5.58
32	18	12,288	12,042	0.98	4.93	11,904	11,666	0.98	5.30	11,136	10,913	0.98	5.70
32	20	13,312	11,448	0.86	5.05	12,800	11,008	0.86	5.40	12,032	10,348	0.86	5.80
34	16	11,392	11,392	1.00	4.80	10,880	10,880	1.00	5.15	10,368	10,368	1.00	5.58
34	18	12,288	12,288	1.00	4.93	11,904	11,904	1.00	5.30	11,136	11,136	1.00	5.70
34	20	13,312	12,513	0.94	5.05	12,800	12,032	0.94	5.40	12,032	11,310	0.94	5.80

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

COOLING CAPACITY (15)

PLH-P6AAH.UK, PLH-P6AAH1.UK / PUH-P6YGAA.UK

(240V)

Indoor intake air DB (℃)	Indoor intake air WB (℃)	Outdoor intake air DB (℃)											
		20				25				30			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	14,157	8,353	0.59	4.82	13,728	8,100	0.59	5.10	13,299	7,846	0.59	5.40
20	18	15,158	7,124	0.47	4.91	14,729	6,923	0.47	5.19	14,229	6,687	0.47	5.55
20	20	16,302	5,706	0.35	5.07	15,945	5,581	0.35	5.31	15,516	5,430	0.35	5.67
22	16	14,157	9,485	0.67	4.82	13,728	9,198	0.67	5.10	13,299	8,910	0.67	5.40
22	18	15,158	8,337	0.55	4.91	14,729	8,101	0.55	5.19	14,229	7,826	0.55	5.55
22	20	16,302	7,010	0.43	5.07	15,945	6,856	0.43	5.31	15,516	6,672	0.43	5.67
24	16	14,157	10,618	0.75	4.82	13,728	10,296	0.75	5.10	13,299	9,974	0.75	5.40
24	18	15,158	9,550	0.63	4.91	14,729	9,279	0.63	5.19	14,229	8,964	0.63	5.55
24	20	16,302	8,314	0.51	5.07	15,945	8,132	0.51	5.31	15,516	7,913	0.51	5.67
26	16	14,157	11,750	0.83	4.82	13,728	11,394	0.83	5.10	13,299	11,038	0.83	5.40
26	18	15,158	10,762	0.71	4.91	14,729	10,458	0.71	5.19	14,229	10,102	0.71	5.55
26	20	16,302	9,618	0.59	5.07	15,945	9,407	0.59	5.31	15,516	9,154	0.59	5.67
28	16	14,157	12,883	0.91	4.82	13,728	12,492	0.91	5.10	13,299	12,102	0.91	5.40
28	18	15,158	11,975	0.79	4.91	14,729	11,636	0.79	5.19	14,229	11,241	0.79	5.55
28	20	16,302	10,922	0.67	5.07	15,945	10,683	0.67	5.31	15,516	10,395	0.67	5.67
30	16	14,157	14,015	0.99	4.82	13,728	13,591	0.99	5.10	13,299	13,166	0.99	5.40
30	18	15,158	13,187	0.87	4.91	14,729	12,814	0.87	5.19	14,229	12,379	0.87	5.55
30	20	16,302	12,227	0.75	5.07	15,945	11,958	0.75	5.31	15,516	11,637	0.75	5.67
32	16	14,157	14,157	1.00	4.82	13,728	13,728	1.00	5.10	13,299	13,299	1.00	5.40
32	18	15,158	14,400	0.95	4.91	14,729	13,993	0.95	5.19	14,229	13,517	0.95	5.55
32	20	16.302	13,531	0.83	5.07	15,945	13,234	0.83	5.31	15,516	12,878	0.83	5.67
34	16	14,157	14,157	1.00	4.82	13,728	13,728	1.00	5.10	13,299	13,299	1.00	5.40
34	18	15,158	15,158	1.00	4.91	14,729	14,729	1.00	5.19	14,229	14,229	1.00	5.55
34	20	16,302	14,835	0.91	5.07	15,945	14,509	0.91	5.31	15,516	14,119	0.91	5.67

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

COOLING CAPACITY (16)

PLH-P6AAH.UK, PLH-P6AAH$_1$.UK / PUH-P6YGAA.UK

(240V)

Indoor intake air DB (℃)	Indoor intake air WB (℃)	Outdoor intake air DB (℃)											
		35				40				45			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
20	16	12,727	7,509	0.59	5.79	12,155	7,171	0.59	6.21	11,583	6,834	0.59	6.72
20	18	13,728	6,452	0.47	5.94	13,299	6,251	0.47	6.39	12,441	5,847	0.47	6.87
20	20	14,872	5,205	0.35	6.09	14,300	5,005	0.35	6.51	13,442	4,705	0.35	6.99
22	16	12,727	8,527	0.67	5.79	12,155	8,144	0.67	6.21	11,583	7,761	0.67	6.72
22	18	13,728	7,550	0.55	5.94	13,299	7,314	0.55	6.39	12,441	6,843	0.55	6.87
22	20	14,872	6,395	0.43	6.09	14,300	6,149	0.43	6.51	13,442	5,780	0.43	6.99
24	16	12,727	9,545	0.75	5.79	12,155	9,116	0.75	6.21	11,583	8,687	0.75	6.72
24	18	13,728	8,649	0.63	5.94	13,299	8,378	0.63	6.39	12,441	7,838	0.63	6.87
24	20	14,872	7,585	0.51	6.09	14,300	7,293	0.51	6.51	13,442	6,855	0.51	6.99
26	16	12,727	10,563	0.83	5.79	12,155	10,089	0.83	6.21	11,583	9,614	0.83	6.72
26	18	13,728	9,747	0.71	5.94	13,299	9,442	0.71	6.39	12,441	8,833	0.71	6.87
26	20	14,872	8,774	0.59	6.09	14,300	8,437	0.59	6.51	13,442	7,931	0.59	6.99
28	16	12,727	11,582	0.91	5.79	12,155	11,061	0.91	6.21	11,583	10,541	0.91	6.72
28	18	13,728	10,845	0.79	5.94	13,299	10,506	0.79	6.39	12,441	9,828	0.79	6.87
28	20	14,872	9,964	0.67	6.09	14,300	9,581	0.67	6.51	13,442	9,006	0.67	6.99
30	16	12,727	12,600	0.99	5.79	12,155	12,033	0.99	6.21	11,583	11,467	0.99	6.72
30	18	13,728	11,943	0.87	5.94	13,299	11,570	0.87	6.39	12,441	10,824	0.87	6.87
30	20	14,872	11,154	0.75	6.09	14,300	10,725	0.75	6.51	13,442	10,082	0.75	6.99
32	16	12,727	12,727	1.00	5.79	12,155	12,155	1.00	6.21	11,583	11,583	1.00	6.72
32	18	13,728	13,042	0.95	5.94	13,299	12,634	0.95	6.39	12,441	11,819	0.95	6.87
32	20	14,872	12,344	0.83	6.09	14,300	11,869	0.83	6.51	13,442	11,157	0.83	6.99
34	16	12,727	12,727	1.00	5.79	12,155	12,155	1.00	6.21	11,583	11,583	1.00	6.72
34	18	13,728	13,728	1.00	5.94	13,299	13,299	1.00	6.39	12,441	12,441	1.00	6.87
34	20	14,872	13,534	0.91	6.09	14,300	13,013	0.91	6.51	13,442	12,232	0.91	6.99

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

1.2 HEATING CAPACITY

PUH-P3VGA, PUH-P3YGA, PUH-P4YGA, PUH-P5YGA, PUH-P6YGA **(240V)**

Service Ref.	Indoor intake air DB (℃)	Outdoor intake air WB (℃)											
		-10		-5		0		5		10		15	
		CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PLH-P3AAH.UK	15	5,906	2.15	6,417	2.37	7,161	2.74	9,393	3.29	10,602	3.65	11,811	3.94
	20	5,673	2.34	6,138	2.56	6,789	2.96	9,068	3.54	10,230	3.94	11,393	4.23
	25	5,487	2.48	5,952	2.77	6,510	3.21	8,556	3.76	9,858	4.22	10,974	4.54
PLH-P4AAH.UK	15	6,731	2.24	7,314	2.47	8,162	2.85	10,706	3.42	12,084	3.80	13,462	4.10
	20	6,466	2.43	6,996	2.66	7,738	3.08	10,335	3.69	11,660	4.10	12,985	4.41
	25	6,254	2.58	6,784	2.89	7,420	3.34	9,752	3.91	11,236	4.39	12,508	4.73
PLH-P5AAH.UK	15	10,160	3.50	11,040	3.85	12,320	4.45	16,160	5.34	18,240	5.93	20,320	6.40
	20	9,760	3.80	10,560	4.15	11,680	4.80	15,600	5.75	17,600	6.40	19,600	6.88
	25	9,440	4.03	10,240	4.51	11,200	5.22	14,720	6.11	16,960	6.85	18,880	7.38
PLH-P6AAH.UK	15	10,668	3.99	11,592	4.40	12,936	5.08	16,968	6.09	19,152	6.77	21,336	7.31
	20	10,248	4.33	11,088	4.74	12,264	5.48	16,380	6.57	18,480	7.31	20,580	7.85
	25	9,912	4.60	10,752	5.15	11,760	5.96	15,456	6.97	17,808	7.82	19,824	8.43

PUH-P3VGAA.UK, PUH-P3YGAA.UK, PUH-P4VGAA.UK, PUH-4YGAA.UK, PUH-P5YGAA.UK, PUH-P6YGAA.UK **(240V)**

Service Ref.	Indoor intake air DB (℃)	Outdoor intake air WB (℃)											
		-10		-5		0		5		10		15	
		CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PLH-P3AAH.UK PLH-P3AAH1.UK	15	5,906	2.07	6,417	2.28	7,161	2.63	9,393	3.15	10,602	3.50	11,811	3.78
	20	5,673	2.24	6,138	2.45	6,789	2.84	9,068	3.40	10,230	3.78	11,393	4.06
	25	5,487	2.38	5,952	2.66	6,510	3.08	8,556	3.61	9,858	4.04	10,974	4.36
PLH-P4AAH.UK PLH-P4AAH1.UK	15	6,731	2.32	7,314	2.55	8,162	2.95	10,706	3.54	12,084	3.93	13,462	4.24
	20	6,466	2.52	6,996	2.75	7,738	3.18	10,335	3.81	11,660	4.24	12,985	4.56
	25	6,254	2.67	6,784	2.99	7,420	3.46	9,752	4.05	11,236	4.54	12,508	4.89
PLH-P5AAH.UK PLH-P5AAH1.UK	15	9,462	3.15	10,281	3.47	11,473	4.01	15,049	4.81	16,986	5.34	18,923	5.77
	20	9,089	3.42	9,834	3.74	10,877	4.33	14,528	5.18	16,390	5.77	18,253	6.19
	25	8,791	3.63	9,536	4.06	10,430	4.70	13,708	5.50	15,794	6.17	17,582	6.65
PLH-P6AAH.UK PLH-P6AAH1.UK	15	10,859	3.75	11,799	4.13	13,167	4.77	17,271	5.72	19,494	6.36	21,717	6.87
	20	10,431	4.07	11,286	4.45	12,483	5.15	16,673	6.17	18,810	6.87	20,948	7.38
	25	10,089	4.32	10,944	4.83	11,970	5.60	15,732	6.55	18,126	7.35	20,178	7.92

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

1.3 Correction factors

Cooling capacity correction factors

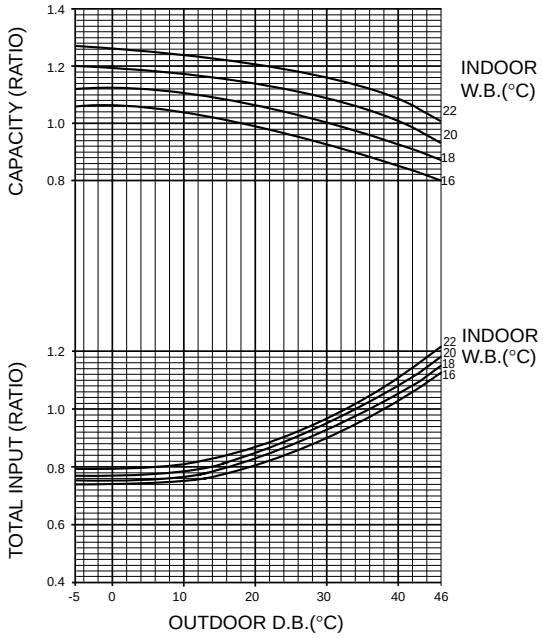
Service Ref.	Refrigerant piping length (one way)									
	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m
PLH-P3AAH.UK PLH-P3AAH1.UK	1.00	0.981	0.968	0.952	0.940	0.925	0.913	0.900	0.886	0.874
PLH-P4AAH.UIK PLH-P4AAH1.UK	1.00	0.989	0.980	0.970	0.960	0.950	0.940	0.930	0.920	0.910
PLH-P5AAH.UK PLH-P5AAH1.UK	1.00	0.981	0.968	0.952	0.940	0.925	0.913	0.900	0.886	0.874
PLH-P6AAH.UK PLH-P6AAH1.UK	1.00	0.975	0.955	0.935	0.918	0.900	0.884	0.869	0.855	0.840

Heating capacity correction factors

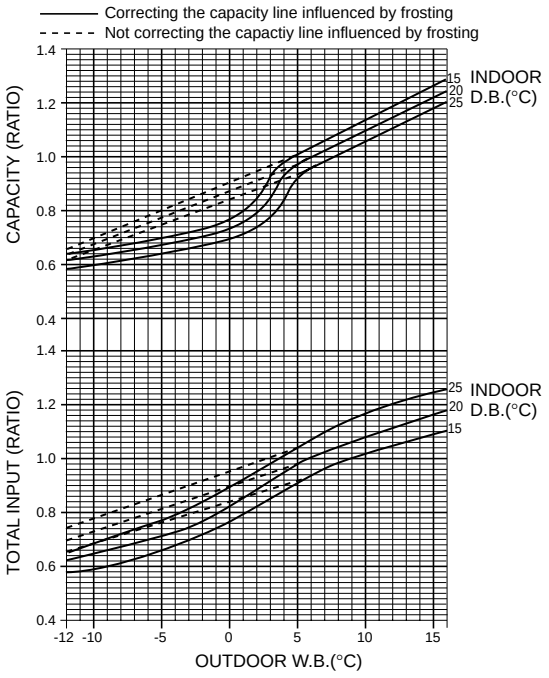
Service Ref.	Refrigerant piping length (one way)									
	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m
PLH-P3AAH.UK PLH-P3AAH1.UK	1.00	0.998	0.995	0.993	0.990	0.988	0.985	0.983	0.980	0.978
PLH-P4AAH.UK PLH-P4AAH1.UK	1.00	0.998	0.995	0.993	0.990	0.988	0.985	0.983	0.980	0.978
PLH-P5AAH.UK PLH-P5AAH1.UK	1.00	0.998	0.995	0.993	0.990	0.988	0.985	0.983	0.980	0.978
PLH-P6AAH.UK PLH-P6AAH1.UK	1.00	0.998	0.955	0.993	0.990	0.988	0.985	0.983	0.980	0.978

2. PERFORMANCE CURVE

Cooling performance curve(50Hz)



Heating performance curve(50Hz)



3. ELECTRICAL DATA

Indoor unit ..... 220V 50Hz Single phase Outdoor unit .... 220V 50Hz Single phase / 380V 50Hz 3 phases

Model	Indoor unit	PLH-P3AAH.UK				PLH-P4AAH.UK	
	Outdoor unit	PUH-P3VGA		PUH-P3YGA		PUH-P4YGA	
Mode		Cool	Heat	Cool	Heat	Cool	Heat
Capacity (W)		7,600	9,100 (10,860)	7,600	9,100 (10,860)	9,500	10,400 (12,580)
Total Input (kW) (In + Out) (in + Out + Heater)		3.47	3.61 (5.37)	3.47	3.61 (5.37)	3.57	3.75 (5.93)
Indoor unit	Input (kW)	0.15	0.15 <1.76>	0.15	0.15 <1.76>	0.24	0.24 <2.18>
Indoor unit	Current (A)	0.78	0.78 <8.00>	0.78	0.78 <8.00>	1.25	1.25 <9.91>
Outdoor unit	Starting current (A)	84	84	38	38	41	41
Outdoor unit	Current (A)	15.55	16.4	5.54	5.84	5.55	5.86

※ ( ) shows the total rating. < > shows the only booster heater rating.

Indoor unit ..... 230V 50Hz Single phase Outdoor unit .... 230V 50Hz Single phase / 400V 50Hz 3 phases

Model	Indoor unit	PLH-P3AAH.UK				PLH-P4AAH.UK	
	Outdoor unit	PUH-P3VGA		PUH-P3YGA		PUH-P4YGA	
Mode		Cool	Heat	Cool	Heat	Cool	Heat
Capacity (W)		7,700	9,200 (11,130)	7,700	9,200 (11,130)	9,600	10,500 (12,890)
Total Input (kW) (In + Out) (in + Out + Heater)		3.49	3.63 (5.56)	3.49	3.63 (5.56)	3.60	3.78 (6.17)
Indoor unit	Input (kW)	0.16	0.16 <1.93>	0.16	0.16 <1.93>	0.25	0.25 <2.39>
Indoor unit	Current (A)	0.79	0.79 <8.39>	0.79	0.79 <8.39>	1.25	1.25 <10.39>
Outdoor unit	Starting current (A)	89	89	40	40	43	43
Outdoor unit	Current (A)	15.08	15.89	5.46	5.75	5.48	5.78

※ ( ) shows the total rating. < > shows the only booster heater rating.

Indoor unit ..... 240V 50Hz Single phase Outdoor unit .... 240V 50Hz Single phase / 415V 50Hz 3 phases

Model	Indoor unit	PLH-P3AAH.UK				PLH-P4AAH.UK	
	Outdoor unit	PUH-P3VGA		PUH-P3YGA		PUH-P4YGA	
Mode		Cool	Heat	Cool	Heat	Cool	Heat
Capacity (W)		7,800	9,300 (11,400)	7,800	9,300 (11,400)	9,700	10,600 (13,200)
Total Input (kW) (In + Out) (in + Out + Heater)		3.51	3.65 (5.75)	3.51	3.65 (5.75)	3.62	3.80 (6.40)
Indoor unit	Input (kW)	0.17	0.17 <2.10>	0.17	0.17 <2.10>	0.26	0.26 <2.60>
Indoor unit	Current (A)	0.81	0.81 <8.75>	0.81	0.81 <8.75>	1.25	1.25 <10.83>
Outdoor unit	Starting current (A)	93	93	41	41	45	45
Outdoor unit	Current (A)	14.64	15.43	5.46	5.76	5.49	5.79

※ ( ) shows the total rating. < > shows the only booster heater rating.

Indoor unit ..... 220V 50Hz Single phase Outdoor unit .... 380V 50Hz 3 phases

Model	Indoor unit	PLH-P5AAH.UK		PLH-P6AAH.UK	
	Outdoor unit	PUH-P5YGA		PUH-P6YGA	
Mode		Cool	Heat	Cool	Heat
Capacity (W)		12,600	15,800 (18,320)	14,100	16,400 (18,920)
Total Input (kW) (In + Out) (in + Out + Heater)		5.51	5.89 (8.41)	6.60	6.73 (9.25)
Indoor unit	Input (kW)	0.28	0.28 <2.52>	0.32	0.32 <2.52>
	Current (A)	1.43	1.43 <11.45>	1.64	1.64 <11.45>
Outdoor unit	Starting current (A)	72	72	77	77
	Current (A)	8.92	9.29	10.72	10.94

※ ( ) shows the total rating. < > shows the only booster heater rating.

Indoor unit ..... 230V 50Hz Single phase Outdoor unit .... 400V 50Hz 3 phases

Model	Indoor unit	PLH-P5AAH.UK		PLH-P6AAH.UK	
	Outdoor unit	PUH-P5YGA		PUH-P6YGA	
Mode		Cool	Heat	Cool	Heat
Capacity (W)		12,700	15,900 (18,660)	14,200	16,600 (19,360)
Total Input (kW) (In + Out) (in + Out + Heater)		5.53	5.91 (8.67)	6.65	6.75 (9.51)
Indoor unit	Input (kW)	0.29	0.29 <2.76>	0.33	0.33 <2.76>
	Current (A)	1.43	1.43 <12.00>	1.64	1.64 <12.00>
Outdoor unit	Starting current (A)	76	76	81	81
	Current (A)	8.59	8.95	10.36	10.53

※ ( ) shows the total rating. < > shows the only booster heater rating.

Indoor unit ..... 240V 50Hz Single phase Outdoor unit .... 415V 50Hz 3 phases

Model	Indoor unit	PLH-P5AAH.UK		PLH-P6AAH.UK	
	Outdoor unit	PUH-P5YGA		PUH-P6YGA	
Mode		Cool	Heat	Cool	Heat
Capacity (W)		12,800	16,000 (19,000)	14,300	16,800 (19,800)
Total Input (kW) (In + Out) (in + Out + Heater)		5.55	5.93 (8.93)	6.70	6.77 (9.77)
Indoor unit	Input (kW)	0.30	0.30 <3.00>	0.34	0.34 <3.00>
	Current (A)	1.43	1.43 <12.50>	1.64	1.64 <12.50>
Outdoor unit	Starting current (A)	79	79	84	84
	Current (A)	8.39	8.74	10.17	10.28

※ ( ) shows the total rating. < > shows the only booster heater rating.

Indoor unit ..... 220V 50Hz Single phase

Outdoor unit .... 220V 50Hz Single phase / 380V 50Hz 3 phases

Service Ref.	Indoor unit	PLH-P3AAH.UK PLH-P3AAH1.UK				PLH-P4AAH.UK PLH-P4AAH1.UK			
	Outdoor unit	PUH-P•GAA.UK							
		3V		3Y		4V		4Y	
Mode		Cool	Heat	Cool	Heat	Cool	Heat	Cool	Heat
Capacity (W)		7,600	9,100 (10,860)	7,600	9,100 (10,860)	9,500	10,400 (12,160)	9,500	10,400 (12,160)
Total Input (kW) (In + Out) (in + Out + Heater)		3.40	3.47 (5.23)	3.40	3.47 (5.23)	3.66	3.88 (5.64)	3.66	3.88 (5.64)
Indoor unit	Input (kW)	0.15	0.15 <1.76>	0.15	0.15 <1.76>	0.24	0.24 <2.18>	0.24	0.24 <2.18>
Indoor unit	Current (A)	0.78	0.78 <8.00>	0.78	0.78 <8.00>	1.25	1.25 <9.91>	1.25	1.25 <9.91>
Outdoor unit	Starting current (A)	85	85	43	43	91	91	44	44
Outdoor unit	Current (A)	16.16	17.19	5.78	6.15	17.13	18.08	6.06	6.40

※ ( ) shows the total rating. < > shows the only booster heater rating.

Indoor unit ..... 230V 50Hz Single phase

Outdoor unit .... 230V 50Hz Single phase / 400V 50Hz 3 phases

Service Ref.	Indoor unit	PLH-P3AAH.UK PLH-P3AAH1.UK				PLH-P4AAH.UK PLH-P4AAH1.UK			
	Outdoor unit	PUH-P•GAA.UK							
		3V		3Y		4V		4Y	
Mode		Cool	Heat	Cool	Heat	Cool	Heat	Cool	Heat
Capacity (W)		7,700	9,200 (11,130)	7,700	9,200 (11,130)	9,600	10,500 (12,430)	9,600	10,500 (12,430)
Total Input (kW) (In + Out) (in + Out + Heater)		3.42	3.48 (5.41)	3.42	3.48 (5.41)	3.68	3.91 (5.84)	3.68	3.91 (5.84)
Indoor unit	Input (kW)	0.16	0.16 <1.93>	0.16	0.16 <1.93>	0.25	0.25 <2.39>	0.25	0.25 <2.39>
Indoor unit	Current (A)	0.79	0.79 <8.39>	0.79	0.79 <8.39>	1.25	1.25 <10.39>	1.25	1.25 <10.39>
Outdoor unit	Starting current (A)	89	89	45	45	95	95	47	47
Outdoor unit	Current (A)	15.45	16.45	5.49	5.84	16.39	17.30	5.76	6.08

※ ( ) shows the total rating. < > shows the only booster heater rating.

Indoor unit ..... 240V 50Hz Single phase

Outdoor unit .... 240V 50Hz Single phase / 415V 50Hz 3 phases

Service Ref.	Indoor unit	PLH-P3AAH.UK PLH-P3AAH1.UK				PLH-P4AAH.UK PLH-P4AAH1.UK			
	Outdoor unit	PUH-P•GAA.UK							
		3V		3Y		4V		4Y	
Mode		Cool	Heat	Cool	Heat	Cool	Heat	Cool	Heat
Capacity (W)		7,800	9,300 (11,400)	7,800	9,300 (11,400)	9,700	10,600 (12,700)	9,700	10,600 (12,700)
Total Input (kW) (In + Out) (in + Out + Heater)		3.44	3.50 (5.60)	3.44	3.50 (5.60)	3.69	3.93 (6.03)	3.69	3.93 (6.03)
Indoor unit	Input (kW)	0.17	0.17 <2.10>	0.17	0.17 <2.10>	0.26	0.26 <2.60>	0.26	0.26 <2.60>
Indoor unit	Current (A)	0.81	0.81 <8.75>	0.81	0.81 <8.75>	1.25	1.25 <10.83>	1.25	1.25 <10.83>
Outdoor unit	Starting current (A)	93	93	47	47	99	99	49	49
Outdoor unit	Current (A)	14.81	15.76	5.29	5.63	15.71	16.58	5.55	5.86

※ ( ) shows the total rating. < > shows the only booster heater rating.

Indoor unit ..... 220V 50Hz Single phase　　Outdoor unit .... 380V 50Hz 3 phases

Service Ref.	Indoor unit	PLH-P5AAH.UK PLH-P5AAH1.UK		PLH-P6AAH.UK PLH-P6AAH1.UK	
	Outdoor unit	PUH-P•GAA.UK			
		5Y		6Y	
Mode		Cool	Heat	Cool	Heat
Capacity (W)		12,600	14,700 (17,210)	14,100	16,900 (19,420)
Total Input (kW) (In + Out) (in + Out + Heater)		4.96	5.30 (7.82)	5.85	6.33 (8.85)
Indoor unit	Input (kW)	0.28	0.28 <2.52>	0.32	0.32 <2.52>
Indoor unit	Current (A)	1.43	1.43 <11.45>	1.64	1.64 <11.45>
Outdoor unit	Starting current (A)	65.5	65.5	74	74
Outdoor unit	Current (A)	8.30	8.90	9.86	10.44

※ ( ) shows the total rating. < > shows the only booster heater rating.

Indoor unit ..... 230V 50Hz Single phase　　Outdoor unit .... 400V 50Hz 3 phases

Service Ref.	Indoor unit	PLH-P5AAH.UK PLH-P5AAH1.UK		PLH-P6AAH.UK PLH-P6AAH1.UK	
	Outdoor unit	PUH-P•GAA.UK			
		5Y		6Y	
Mode		Cool	Heat	Cool	Heat
Capacity (W)		12,700	14,800 (17,560)	14,200	17,000 (19,760)
Total Input (kW) (In + Out) (in + Out + Heater)		4.98	5.32 (8.08)	5.90	6.35 (9.11)
Indoor unit	Input (kW)	0.29	0.29 <2.76>	0.33	0.33 <2.76>
Indoor unit	Current (A)	1.43	1.43 <12.00>	1.64	1.64 <12.00>
Outdoor unit	Starting current (A)	65.5	65.5	74	74
Outdoor unit	Current (A)	7.89	8.46	9.37	9.92

※ ( ) shows the total rating. < > shows the only booster heater rating.

Indoor unit ..... 240V 50Hz Single phase　　Outdoor unit .... 415V 50Hz 3 phases

Service Ref.	Indoor unit	PLH-P5AAH.UK PLH-P5AAH1.UK		PLH-P6AAH.UK PLH-P6AAH1.UK	
	Outdoor unit	PUH-P•GAA.UK			
		5Y		6Y	
Mode		Cool	Heat	Cool	Heat
Capacity (W)		12,800	14,900 (17,900)	14,300	17,100 (20,100)
Total Input (kW) (In + Out) (in + Out + Heater)		5.00	5.34 (8.34)	5.94	6.36 (9.36)
Indoor unit	Input (kW)	0.30	0.30 <3.00>	0.34	0.34 <3.00>
Indoor unit	Current (A)	1.43	1.43 <12.50>	1.64	1.64 <12.50>
Outdoor unit	Starting current (A)	65.5	65.5	74	74
Outdoor unit	Current (A)	7.60	8.15	9.03	9.56

※ ( ) shows the total rating. < > shows the only booster heater rating.

4. STANDARD OPERATION DATA

Service Ref.				PLH-P3AAH.UK		PLH-P4AAH.UK		PLH-P5AAH.UK		PLH-P6AAH.UK	
Mode				Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Total	Capacity		W	7,800	9,300	9,700	10,600	12,800	16,000	14,300	16,800
	Input		kW	3.51	3.65	3.62	3.80	5.55	5.93	6.70	6.77
Electrical circuit	**Indoor unit Service Ref.**			**PLH-P3AAH.UK**		**PLH-P4AAH.UK**		**PLH-P5AAH.UK**		**PLH-P6AAH.UK**	
	Phase,Hz			1,50		1,50		1,50		1,50	
	Volts		V	240		240		240		240	
	Amperes		A	0.81		1.25		1.43		1.64	
	Outdoor unit Service Ref.			**PUH-P3VGA PUH-P3YGA**		**PUH-P4YGA**		**PUH-P5YGA**		**PUH-P6YGA**	
	Phase,Hz			1/3, 50		3, 50		3, 50		3, 50	
	Volts		V	240/415		415		415		415	
	Amperes		A	14.64/5.46	15.43/5.76	5.49	5.79	8.39	8.74	10.17	10.28
Refrigerant circuit	Discharge pressure		Mpa (kgf/cm²)	2.30 (23.4)	2.38 (24.3)	1.98 (20.2)	2.12 (21.6)	2.27 (23.2)	2.59 (26.4)	2.27 (23.2)	2.36 (24.1)
	Suction pressure		Mpa (kgf/cm²)	0.47 (4.8)	0.39 (4.0)	0.54 (5.5)	0.42 (4.3)	0.46 (4.7)	0.41 (4.21)	0.45 (4.6)	0.41 (4.2)
	Discharge temperature		°C	81.0	88.0	71.0	7.5	78.6	86.6	80.6	83.5
	Condensing temperature		°C	44.0	45.0	42.0	47.0	41.0	44.0	45.0	46.0
	Suction temperature		°C	4.8	0	7.5	0.6	4.4	4.2	2.4	-1.0
	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	13.4	45.1	14.0	40.1	12.3	49.3	11.3	50.7
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	—	0.78	—	0.72	—	0.69	—
BF				0.13	—	0.12	—	0.10	—	0.09	—

The unit of pressure has been changed to Mpa based on international SI system.
The conversion factor is : 1(Mpa)=10.2(kgf/㎠)

Service Ref.				PLH-P3AAH.UK PLH-P3AAH1.UK		PLH-P4AAH.UK PLH-P4AAH1.UK		PLH-P5AAH.UK PLH-P5AAH1.UK		PLH-P6AAH.UK PLH-P6AAH1.UK	
Mode				Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Total	Capacity		W	7,800	9,300	9,700	10,600	12,800	14,900	14,300	17,100
	Input		kW	3.44	3.50	3.69	3.93	5.00	5.34	5.94	6.36
Electrical circuit	**Indoor unit Service Ref.**			**PLH-P3AAH.UK PLH-P3AAH1.UK**		**PLH-P4AAH.UK PLH-P4AAH1.UK**		**PLH-P5AAH.UK PLH-P5AAH1.UK**		**PLH-P6AAH.UK PLH-P6AAH1.UK**	
	Phase,Hz			1,50		1,50		1,50		1,50	
	Volts		V	240		240		240		240	
	Amperes		A	0.81		1.25		1.43		1.64	
	Outdoor unit Service Ref.			**PUH-P3VGAA.UK PUH-P3YGAA.UK**		**PUH-P4VGAA.UK PUH-P4YGAA.UK**		**PUH-P5YGAA.UK**		**PUH-P6YGAA.UK**	
	Phase,Hz			1/3, 50		1/3, 50		3, 50		3, 50	
	Volts		V	240/415		240/415		415		415	
	Amperes		A	14.81/5.29	15.76/5.63	15.71/5.55	16.58/5.86	7.60	8.15	9.03	9.56
Refrigerant circuit	Discharge pressure		Mpa (kgf/cm²)	2.30 (23.4)	2.38 (24.3)	1.98 (20.2)	2.12 (21.6)	2.27 (23.2)	2.59 (26.4)	2.27 (23.2)	2.36 (24.1)
	Suction pressure		Mpa (kgf/cm²)	0.47 (4.8)	0.39 (4.0)	0.54 (5.5)	0.42 (4.3)	0.46 (4.7)	0.41 (4.21)	0.45 (4.6)	0.41 (4.2)
	Discharge temperature		°C	81.0	88.0	71.0	7.5	78.6	86.6	80.6	83.5
	Condensing temperature		°C	44.0	45.0	42.0	47.0	41.0	44.0	45.0	46.0
	Suction temperature		°C	4.8	0	7.5	0.6	4.4	4.2	2.4	-1.0
	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	13.4	45.1	14.0	40.1	12.3	47.3	11.3	51.2
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	—	0.78	—	0.72	—	0.69	—
BF				0.13	—	0.12	—	0.10	—	0.09	—

The unit of pressure has been changed to Mpa based on international SI system.
The conversion factor is : 1(Mpa)=10.2(kgf/㎠)

5. OUTLET AIR SPEED AND COVERAGE RANGE

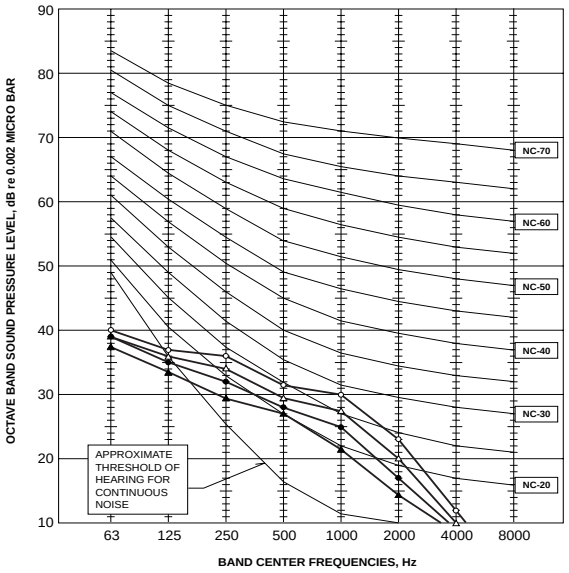
Service Ref.		PLH-P3AAH.UK PLH-P3AAH1.UK	PLH-P4AAH.UK PLH-P4AAH1.UK	PLH-P5AAH.UK PLH-P5AAH1.UK	PLH-P6AAH.UK PLH-P6AAH1.UK
Air flow	m³/min	20	28	30	30
Air speed	m/sec.	4.0	4.9	5.2	6.6
Coverage range	m	5.7	7.4	7.9	8.9

※ 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.

6. NOISE CRITERION CURVES

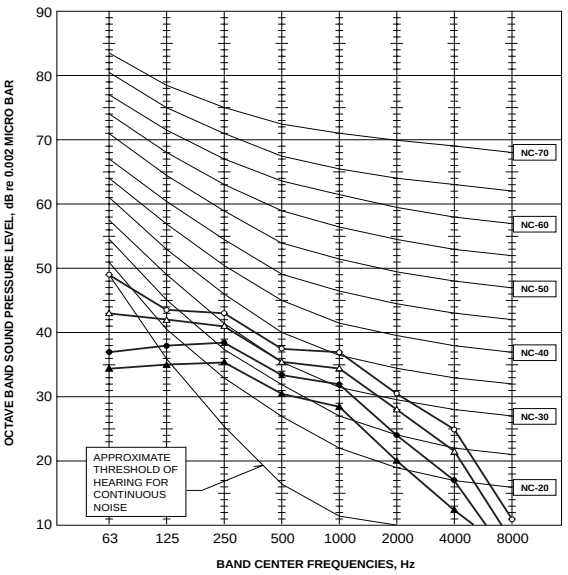
PLH-P3AAH.UK
PLH-P3AAH1.UK

NOTCH	SPL(dB)	LINE
Hi	34	
Mi1	32	
Mi2	30	
Lo	28	



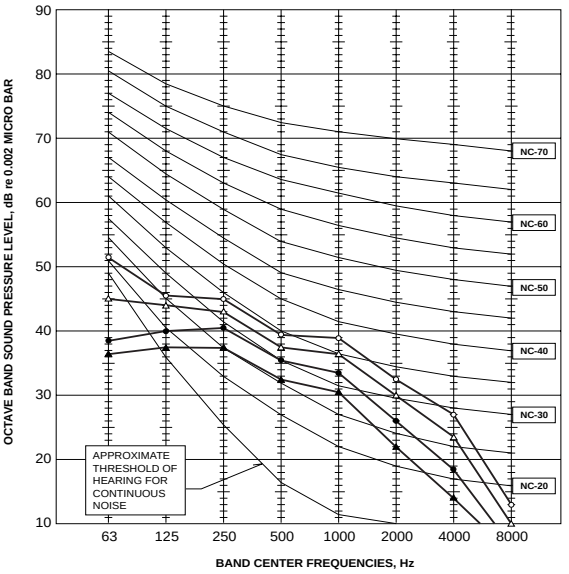
PLH-P4AAH.UK
PLH-P4AAH1.UK

NOTCH	SPL(dB)	LINE
Hi	41	
Mi1	39	
Mi2	36	
Lo	33	



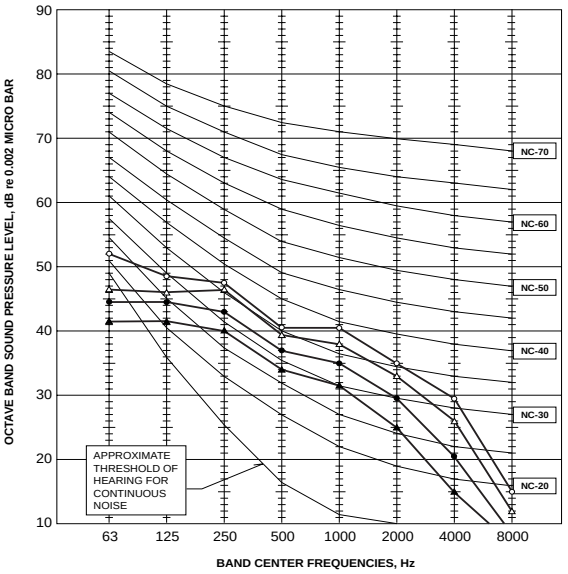
PLH-P5AAH.UK
PLH-P5AAH1.UK

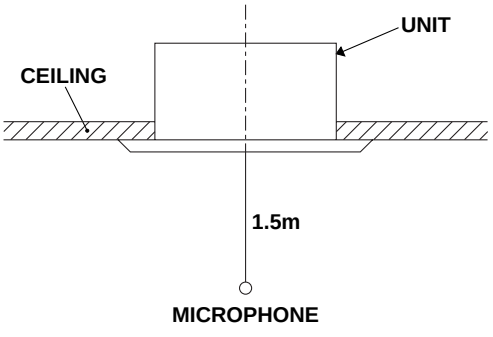
NOTCH	SPL(dB)	LINE
Hi	43	
Mi1	41	
Mi2	38	
Lo	35	



PLH-P6AAH.UK
PLH-P6AAH1.UK

NOTCH	SPL(dB)	LINE
Hi	45	
Mi1	43	
Mi2	40	
Lo	37	





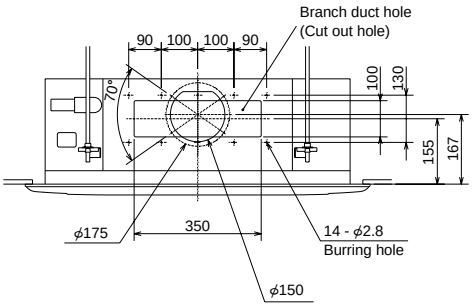
Ambient temperature 27℃

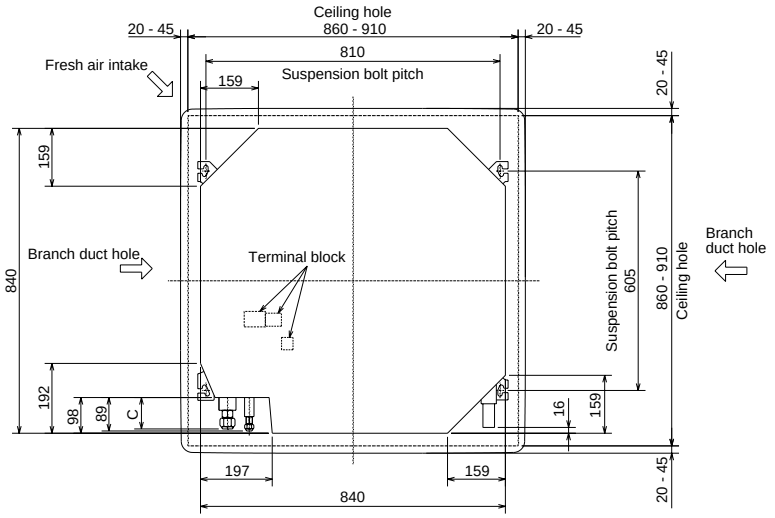
Test conditions are based on JIS Z8731

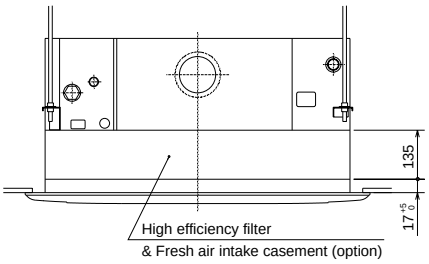
7 OUTLINES AND DIMENSIONS

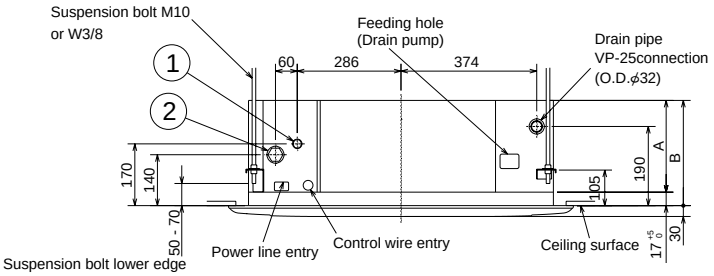
PLH-P3AAH.UK, PLH-P4AAH.UK, PLH-P5AAH.UK, PLH-P6AAH.UK
PLH-P3AAH1.UK, PLH-P4AAH1.UK, PLH-P5AAH1.UK, PLH-P6AAH1.UK

Unit: mm

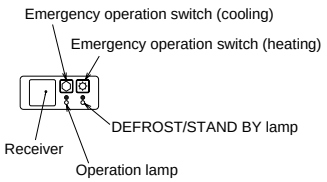


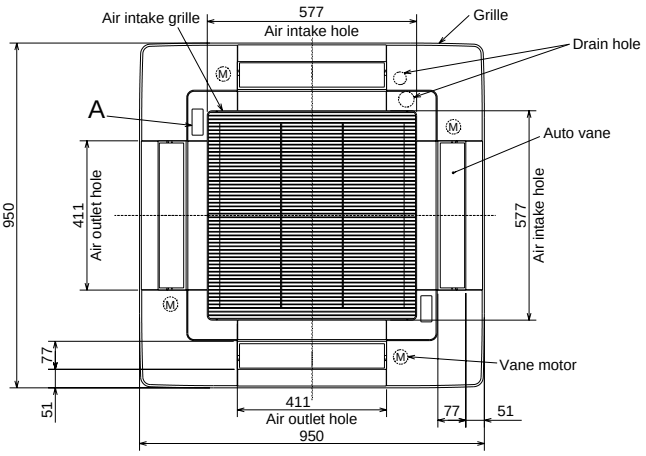






A (WIRELESS PANEL)



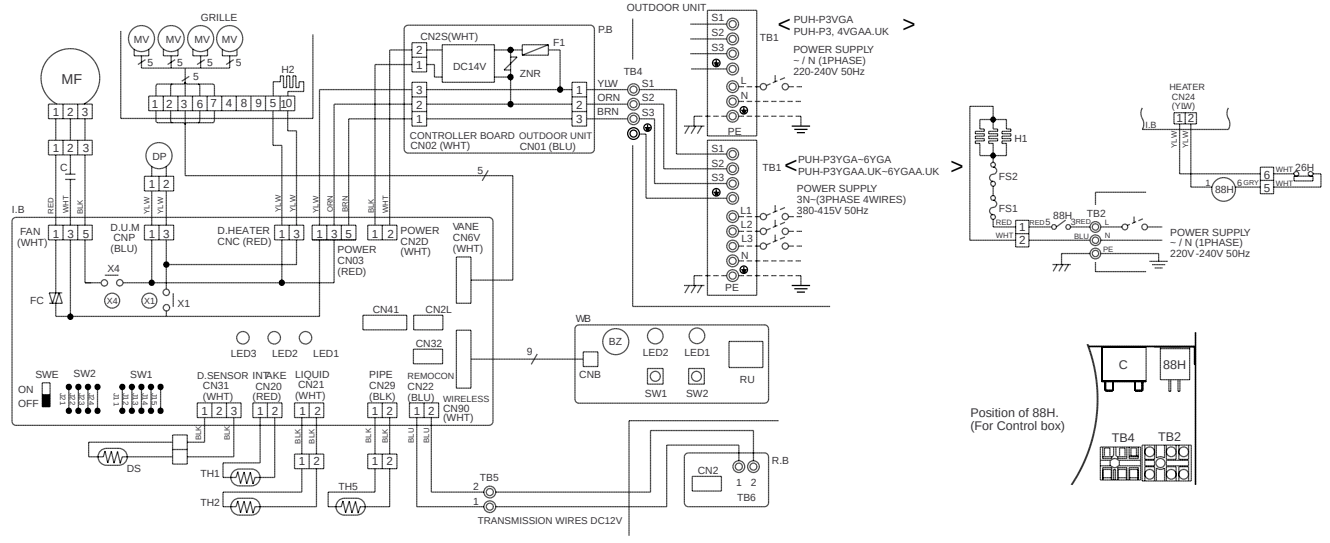


Models	①	②	A	B	C
PLH-P3AAH.UK PLH-P3AAH1.UK	Refrigerant pipe (9.52mm dia.) flared connection 3/8F	Refrigerant pipe (15.88mm dia.) flared connection 5/8F	241	258	80
PLH-P4/P5/P6AAH.UK PLH-P4/P5/P6AAH1.UK	Refrigerant pipe (9.52mm dia.) flared connection 3/8F	Refrigerant pipe (19.05mm dia.) flared connection 3/4F	281	298	84

8 WIRING DIAGRAM

PLH-P3AAH.UK, PLH-P4AAH.UK, PLH-P5AAH.UK, PLH-P6AAH.UK
PLH-P3AAH$_1$.UK, PLH-P4AAH$_1$.UK, PLH-P5AAH$_1$.UK, PLH-P6AAH$_1$.UK

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)	TB2	TERMINAL BLOCK(HEATER)	LED2	LED(HOT ADJUST)
CN32	CONNECTOR(REMOTE SWITCH)	TB4	TERMINAL BLOCK(INDOOR/OUTDOOR CONNECTING LINE)	SW1	SWITCH(HEATING ON/OFF)
CN41	CONNECTOR(HA TERMINAL-A)	TB5	TERMINAL BLOCK(REMOTE	SW2	SWITCH(COOLING ON/OFF)
SW1	JUMPER WIRE(MODEL SELECTION)		CONTROLLER TRANSMISSION LINE)	HEATER	
SW2	JUMPER WIRE(CAPACITY CORD)	TH1	ROOM TEMP.THERMISTOR	FS1	THERMAL FUSE(72℃,16A)
SWE	SWITCH(EMERGENCY OPERATION)		(0℃/15kΩ,25℃/5.4kΩ DETECT)	FS2	THERMAL FUSE(104℃,16A)
X1	RELAY(DRAIN PUMP)	TH2	PIPE TEMP.THERMISTOR/LIQUID	H1	HEATER
X4	RELAY(FAN MOTOR)		(0℃/15kΩ,25℃/5.4kΩ DETECT)	26H	HEATER THERMAL SWITCH
FC	FAN PHASE CONTROL	TH5	COND./EVA.TEMP.THERMISTOR	88H	HEATER CONTACTOR
LED1	POWER SUPPLY(I.B)		(0℃/15kΩ,25℃/5.4kΩ DETECT)		
LED2	POWER SUPPLY(R.B)	R.B	REMOTE CONTROLLER BOARD		
LED3	TRANSMISSION(INDOOR-OUTDOOR)	CN2	CONNECTOR(PROGRAM TIMER)		
C	CAPACITOR(FAN MOTOR)	TB6	TERMINAL BLOCK(REMOTE		
MF	FAN MOTOR		CONTROLLER TRANSMISSION LINE)		



SW1		
MODELS	Manufacture	Service board
PLH-P3,4,5,6AAH.UK PLH-P3,4,5,6AAH$_1$.UK	J11,J12,J13,J14,J15	ON / OFF

SW2		
MODELS	Manufacture	Service board
PLH-P3AAH.UK PLH-P3AAH$_1$.UK	J21,J22,J23,J24	ON / OFF
PLH-P4AAH.UK PLH-P4AAH$_1$.UK	J21,J22,J23,J24	ON / OFF
PLH-P5AAH.UK PLH-P5AAH$_1$.UK	J21,J22,J23,J24	ON / OFF
PLH-P6AAH.UK PLH-P6AAH$_1$.UK	J21,J22,J23,J24	ON / OFF

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

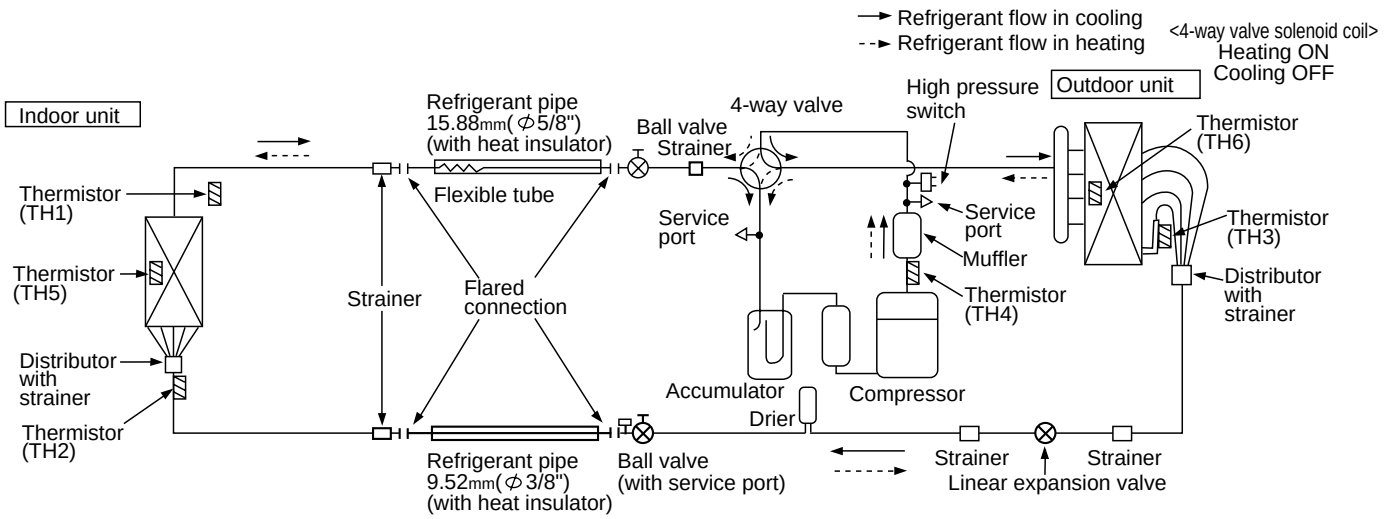
NOTE:

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. Make sure that the main power supply of the booster heater is independent.
4. Symbols used in wiring diagram above are,
   ◎ : Terminal , □□□ : Connector.

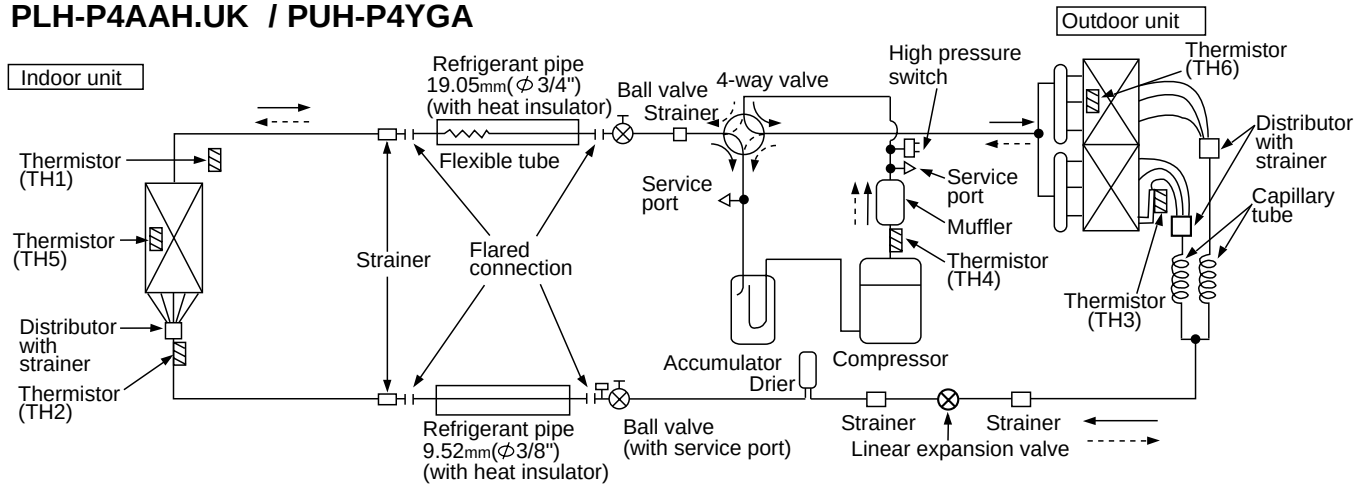
9 REFRIGERANT SYSTEM DIAGRAM

PLH-P3AAH.UK / PUH-P3VGA, PUH-P3YGA

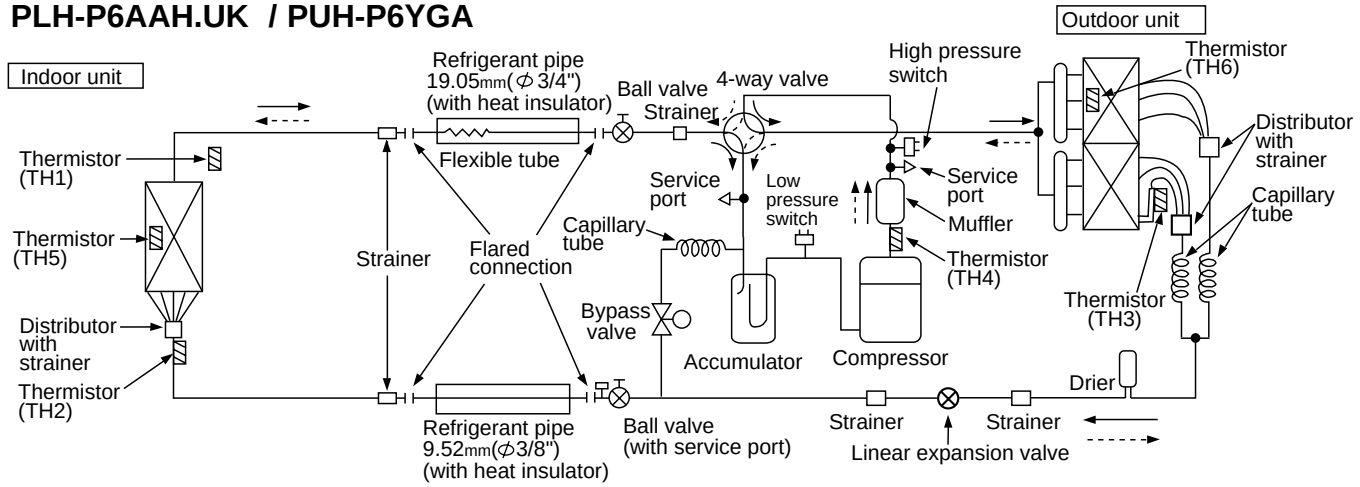
Unit : mm(inch)



PLH-P4AAH.UK / PUH-P4YGA

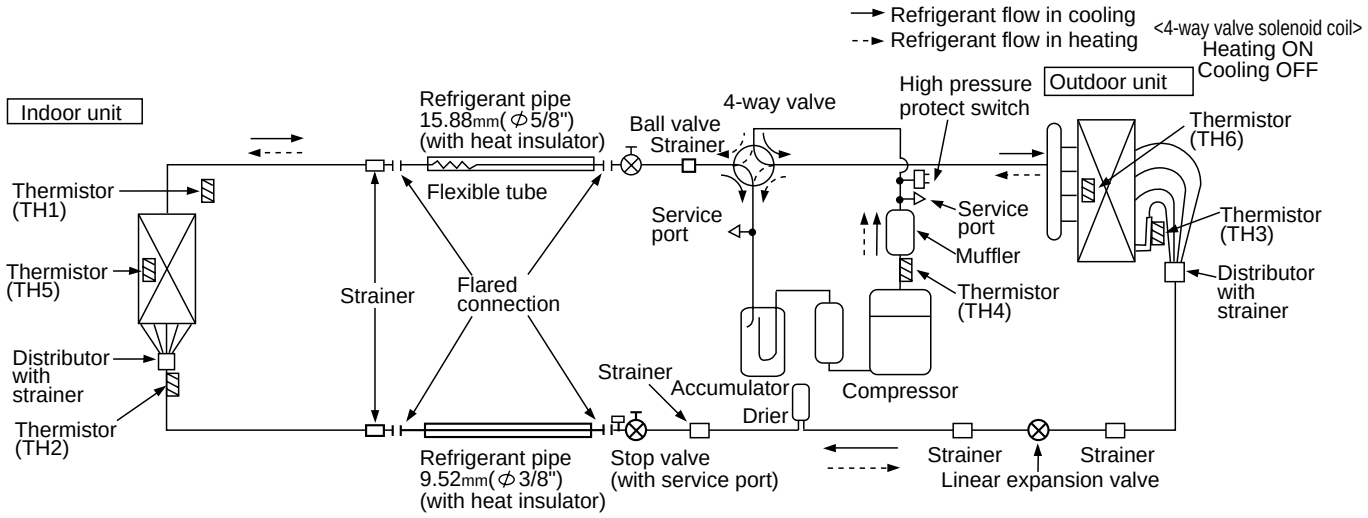


PLH-P5AAH.UK / PUH-P5YGA
PLH-P6AAH.UK / PUH-P6YGA

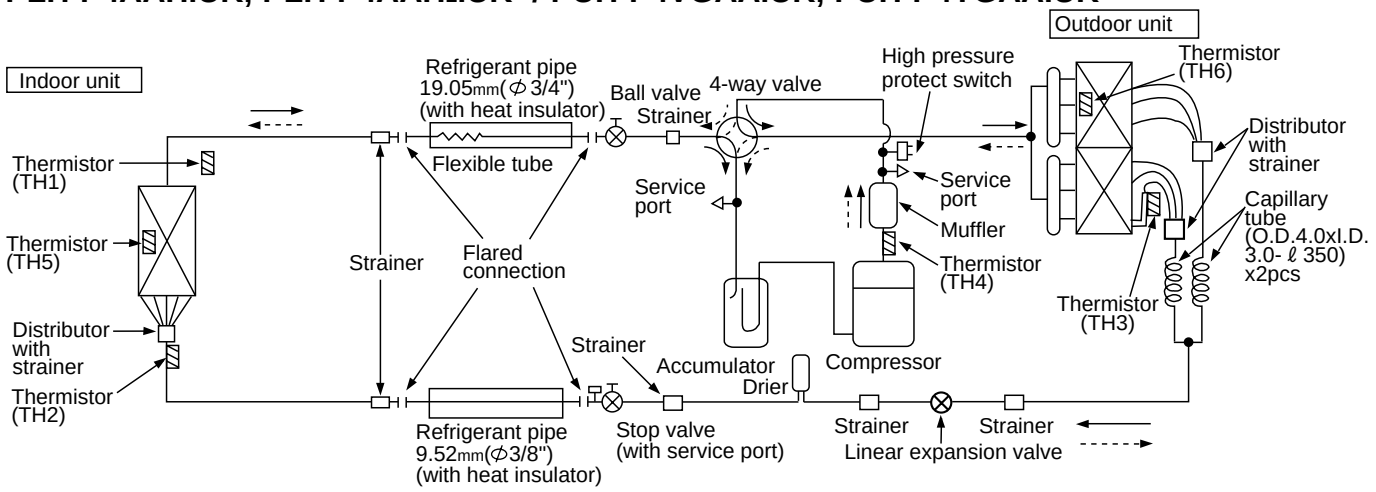


PLH-P3AAH.UK, PLH-P3AAH1.UK / PUH-P3VGAA.UK, PUH-P3YGAA.UK

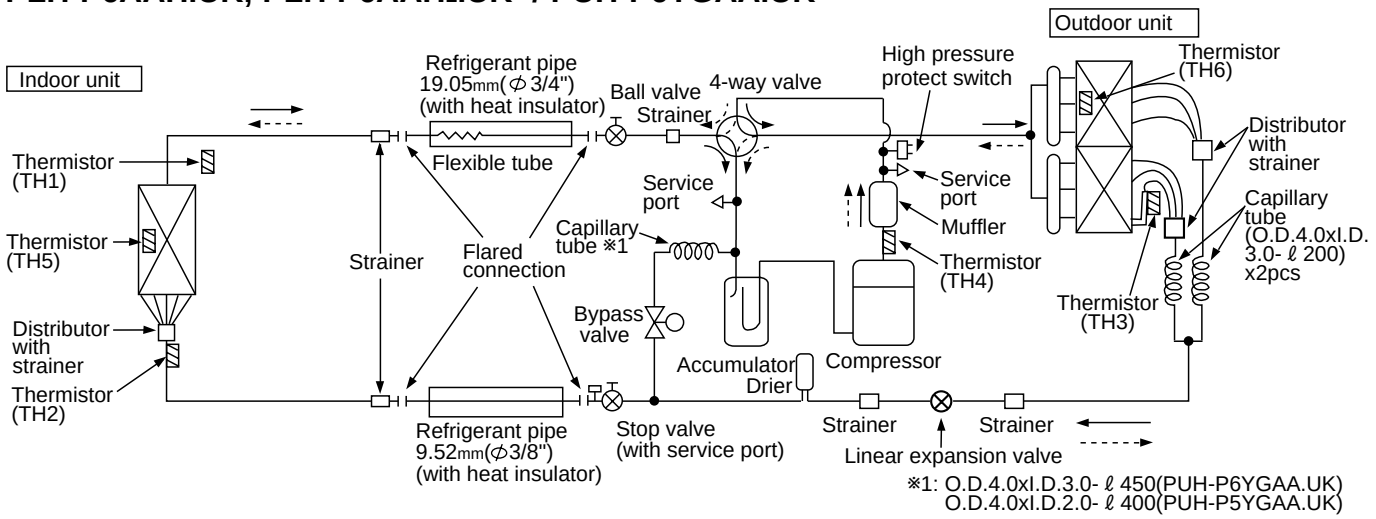
Unit : mm(inch)



PLH-P4AAH.UK, PLH-P4AAH1.UK / PUH-P4VGAA.UK, PUH-P4YGAA.UK



PLH-P5AAH.UK, PLH-P5AAH1.UK / PUH-P5YGAA.UK
PLH-P6AAH.UK, PLH-P6AAH1.UK / PUH-P6YGAA.UK

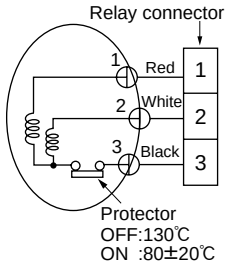
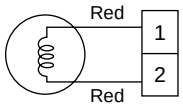
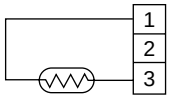


※1: O.D.4.0xI.D.3.0- ℓ 450(PUH-P6YGAA.UK)
O.D.4.0xI.D.2.0- ℓ 400(PUH-P5YGAA.UK)

10 TROUBLESHOOTING

HOW TO CHECK THE PARTS

PLH-P3AAH.UK, PLH-P4AAH.UK, PLH-P5AAH.UK, PLH-P6AAH.UK
PLH-P3AAH1.UK, PLH-P4AAH1.UK, PLH-P5AAH1.UK, PLH-P6AAH1.UK

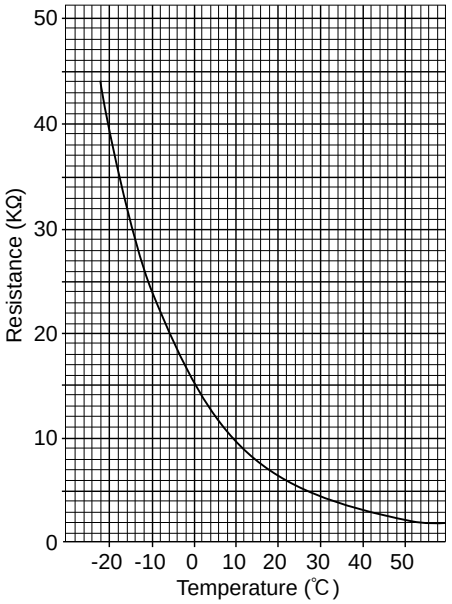
<table>
<tr><th>Parts name</th><th>Check points</th></tr>
<tr><td>Room temperature thermistor (TH1)
Pipe temperature thermistor (TH2)
Condenser/Evaporator temperature thermistor (TH5)</td><td>Disconnect the connector then measure the resistance using a tester.
(Surrounding temperature 10℃~30℃)
<table><tr><th>Normal</th><th>Abnormal</th></tr><tr><td>4.3kΩ~9.6kΩ</td><td>Open or short</td></tr></table>(Refer to the thermistor)</td></tr>
<tr><td>Vane motor</td><td>Measure the resistance between the terminals using a tester.
(Surrounding temperature 20℃)
<table><tr><th>Normal</th><th>Abnormal</th></tr><tr><td>15kΩ</td><td>Open or short</td></tr></table></td></tr>
<tr><td>Fan motor
 
</td><td>Measure the resistance between the terminals using a tester.
(Surrounding temperature 20℃)
<table><tr><th>Motor terminal or Relay connector</th><th>Normal</th><th>Abnormal</th></tr><tr><td>Red-Black</td><td>87.2Ω</td><td rowspan="2">Open or short</td></tr><tr><td>White-Black</td><td>104.1Ω</td></tr></table></td></tr>
<tr><td>Drain pump
 
</td><td>Measure the resistance between the terminals using a tester.
(Surrounding temperature 20℃)
<table><tr><th>Normal</th><th>Abnormal</th></tr><tr><td>290Ω</td><td>Open or short</td></tr></table></td></tr>
<tr><td>Drain sensor
 
</td><td>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℃~60℃)
<table><tr><th>Normal</th><th>Abnormal</th></tr><tr><td>0.6kΩ~6.0kΩ</td><td>Open or short</td></tr></table>(Refer to the thermistor)</td></tr>
</table>

<Thermistor Characteristic graph>

Thermistor for lower temperature

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

< Thermistor for lower temperature >



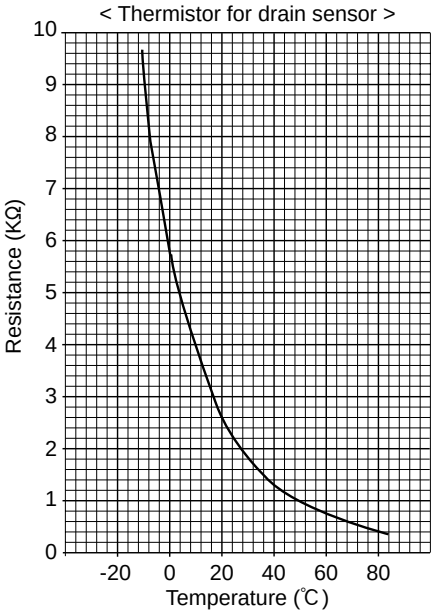
Thermistor R_0=15k ± 3%
Fixed number of B=3480k ± 2%

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

0℃	15k
10℃	9.6k
20℃	6.3k
25℃	5.2k
30℃	4.3k
40℃	3.0k

Thermistor for drain sensor

< Thermistor for drain sensor >



Thermistor R_0=6.0k ±5%
Fixed number of B=3390k ±2%

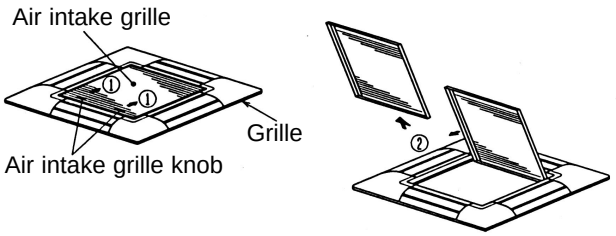
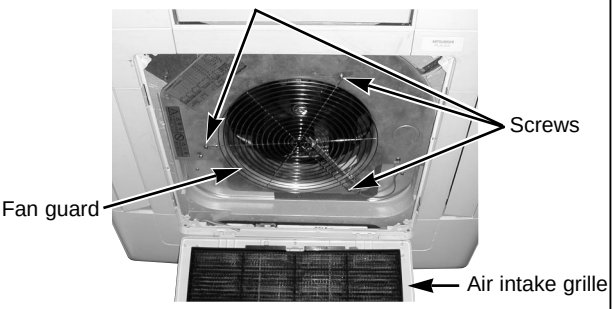
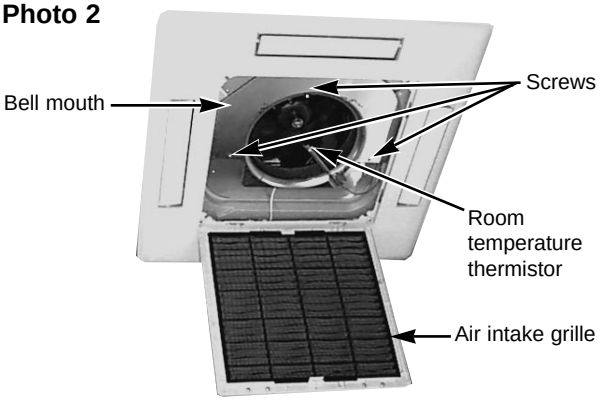
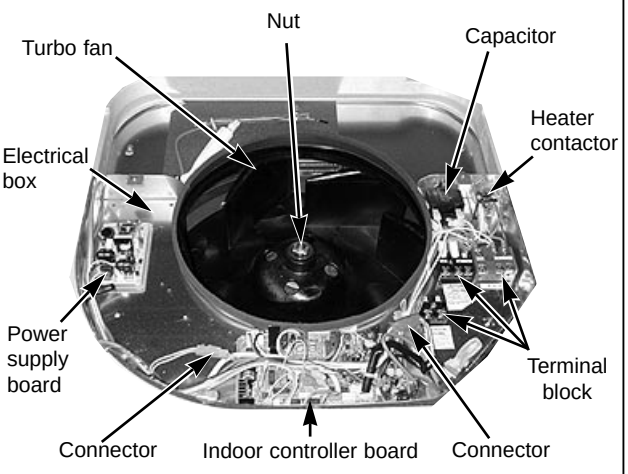
$$Rt=6\exp\{3390(\frac{1}{273+t}-\frac{1}{273})\}$$

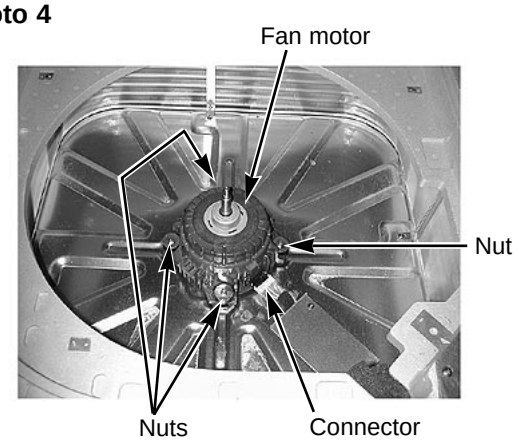
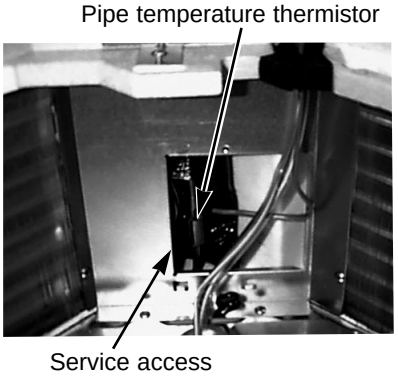
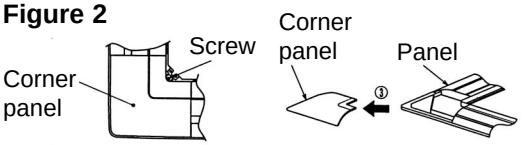
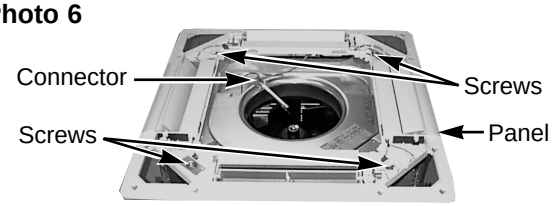
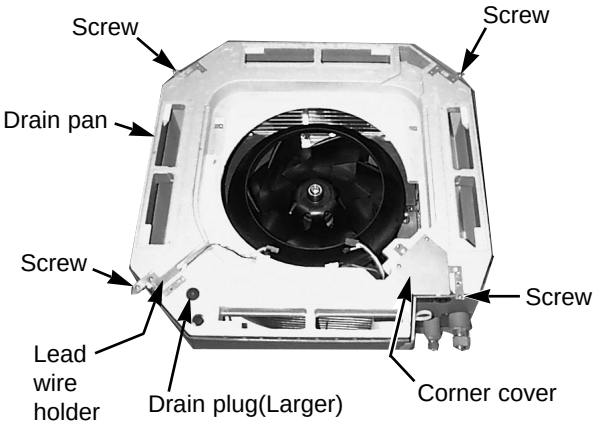
0℃	6.0k
10℃	3.9k
20℃	2.6k
25℃	2.2k
30℃	1.8k
40℃	1.3k

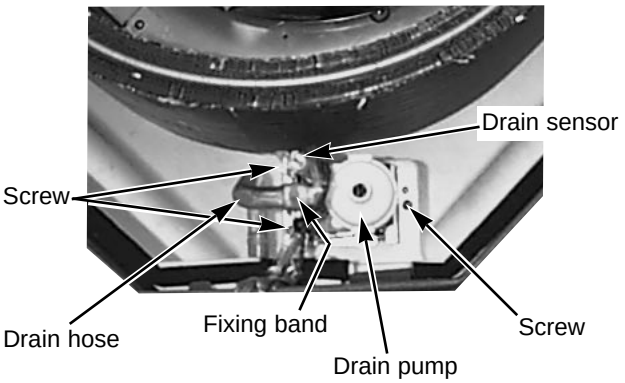
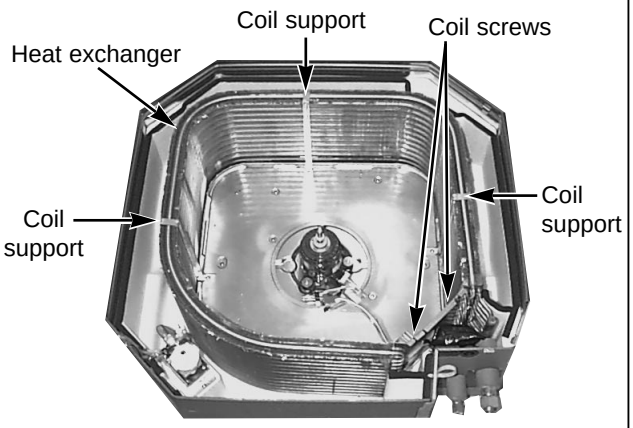
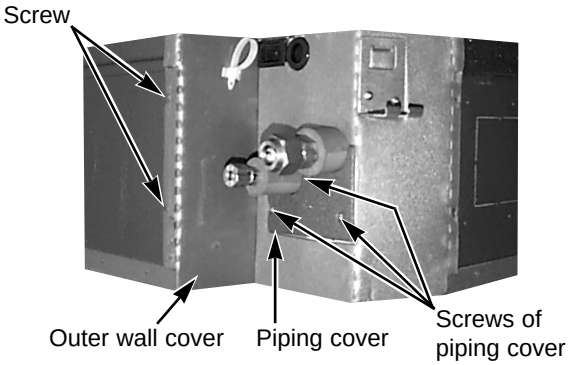
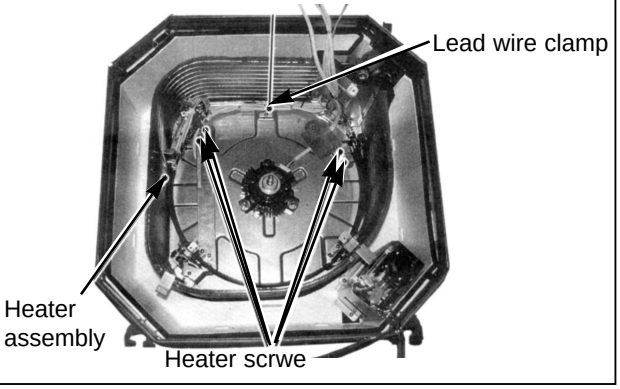
11 DISASSEMBLY PROCEDURE

PLH-P3AAH.UK, PLH-P3AAH1.UK

Be careful on removing heavy parts.

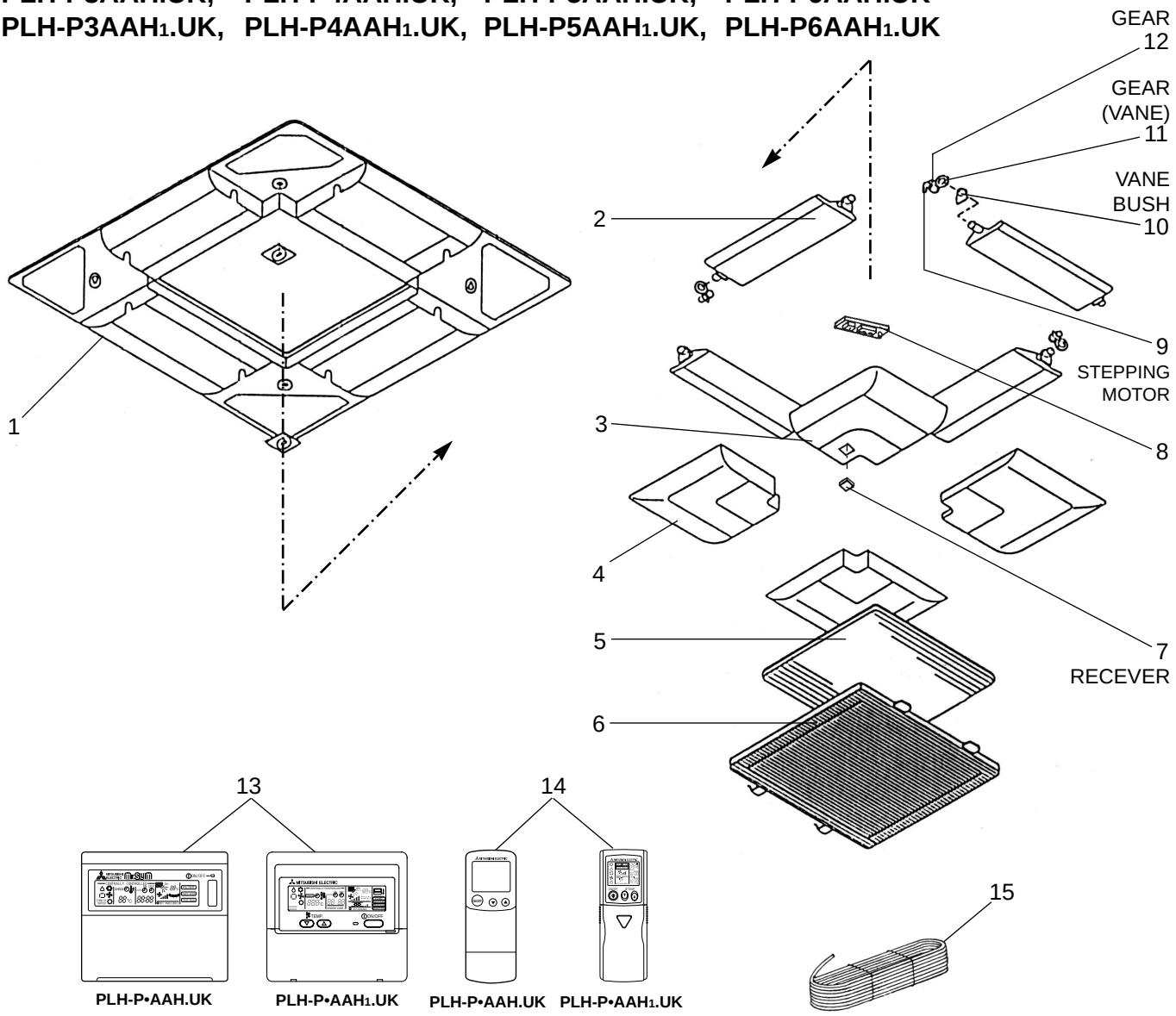
OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
1. Removing the air intake grille (1) Slide the knob of air intake grille toward the arrow ① to open the air intake grille. (2) Remove drop prevention hook from the panel. (3) Slide the shaft in the hinge to the direction of the arrow② and remove the air intake grille.	**Figure 1** 
2. Removing the fan guard (1) Open the air intake grille. (2) Remove the 3 screws of fan guard.	**Photo 1** 
3. Removing the room temperature thermistor (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) Hold the holder claw, and remove the room temperature thermistor and holder. (5) Disconnect the connector (red) from the indoor control board.	**Photo 2** 
4. Removing the electrical box (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 (8P). (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 ran motor power supply White (2P) for pipe temperature detecting thermistor Blue (2P) for drain pump White (3P) for drain sensor Green (6P) for auxiliary heater (6) Remove the 3 screws of the electrical box and loosen the other 2 screws to remove the box. <Electrical parts in the electrical box> Indoor controller board Power supply board Terminal block Capacitor Heater contactor	**Photo 3** 

OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
5. Remove the fan motor (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.	**Photo 4** 
6. Removing the pipe temperature thermistor and condenser evaporator temperature thermistor (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.	**Photo 5** 
7. Removing the panel (1) Remove the air intake grille.(See figure 1) **Corner panel (See figure 2)** (1) Remove the corner screw. (2) Slide the corner panel to the direction of the arrow③, and remove the corner panel. **Panel (See photo 6)** (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.	**Figure 2**  **Photo 6** 
8. Removing the drain pan (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. ※ Pull out the left and right of the pan gradually. Be careful not to crack or damage the pan.	**Photo 7** 

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.	**Photo 8** 
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.	**Photo 9**  **Photo 10** 
11. Removing the heater (1) Remove the panel. (See photo 6) (2) Remove the electrical box. (See photo 3) (3) Remove the bell mouth.(See photo 2) (4) Remove the drain pan.(See photo 7) (5) Remove the turbo fan.(See photo 4) (6) Remove the 5 screws of the heater assembly. (7) Remove the clamp(1 screw) securing the lead wire. (8) Pull the heater assembly out..	

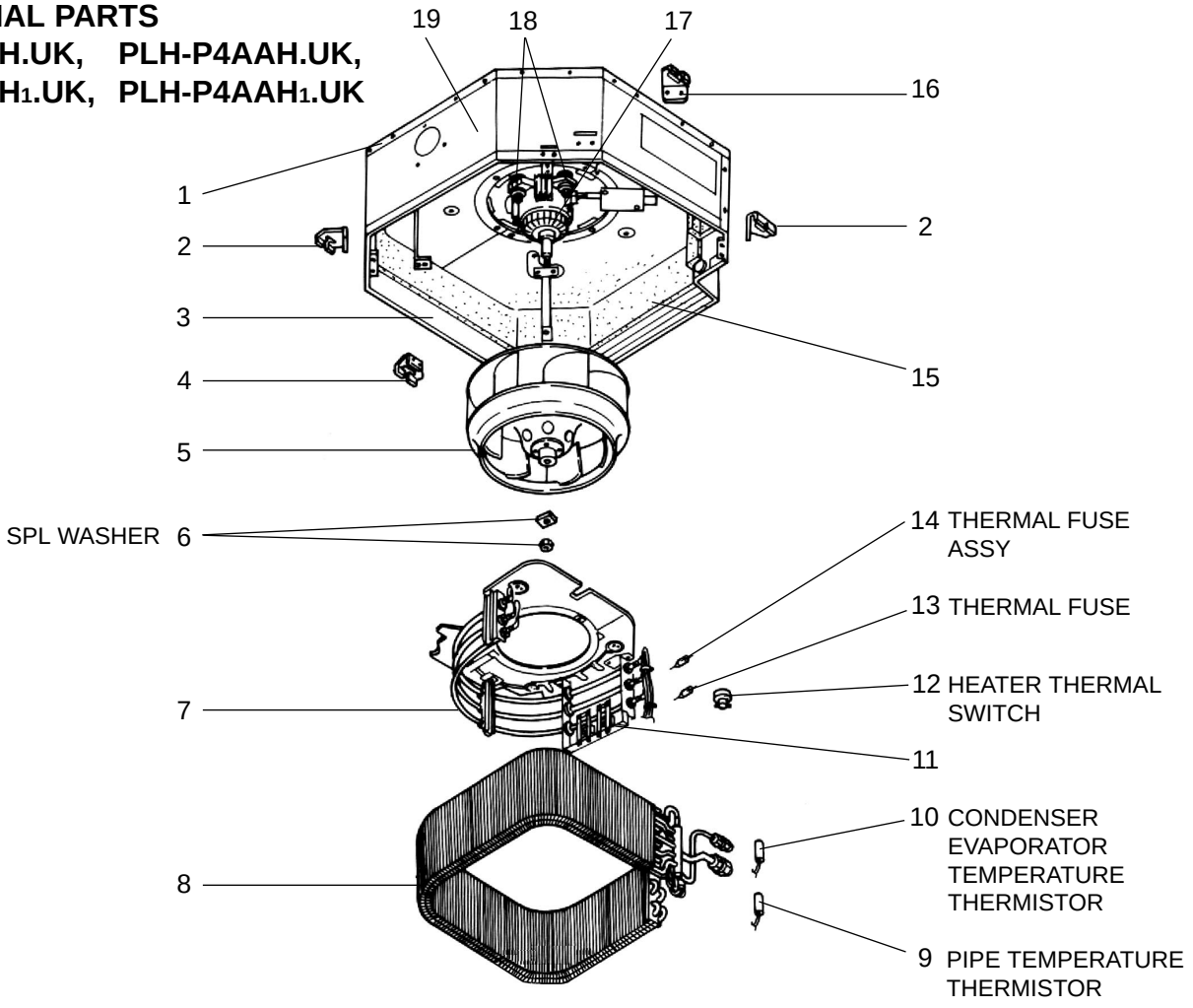
12 PARTS LIST

PLH-P3AAH.UK, PLH-P4AAH.UK, PLH-P5AAH.UK, PLH-P6AAH.UK
PLH-P3AAH1.UK, PLH-P4AAH1.UK, PLH-P5AAH1.UK, PLH-P6AAH1.UK



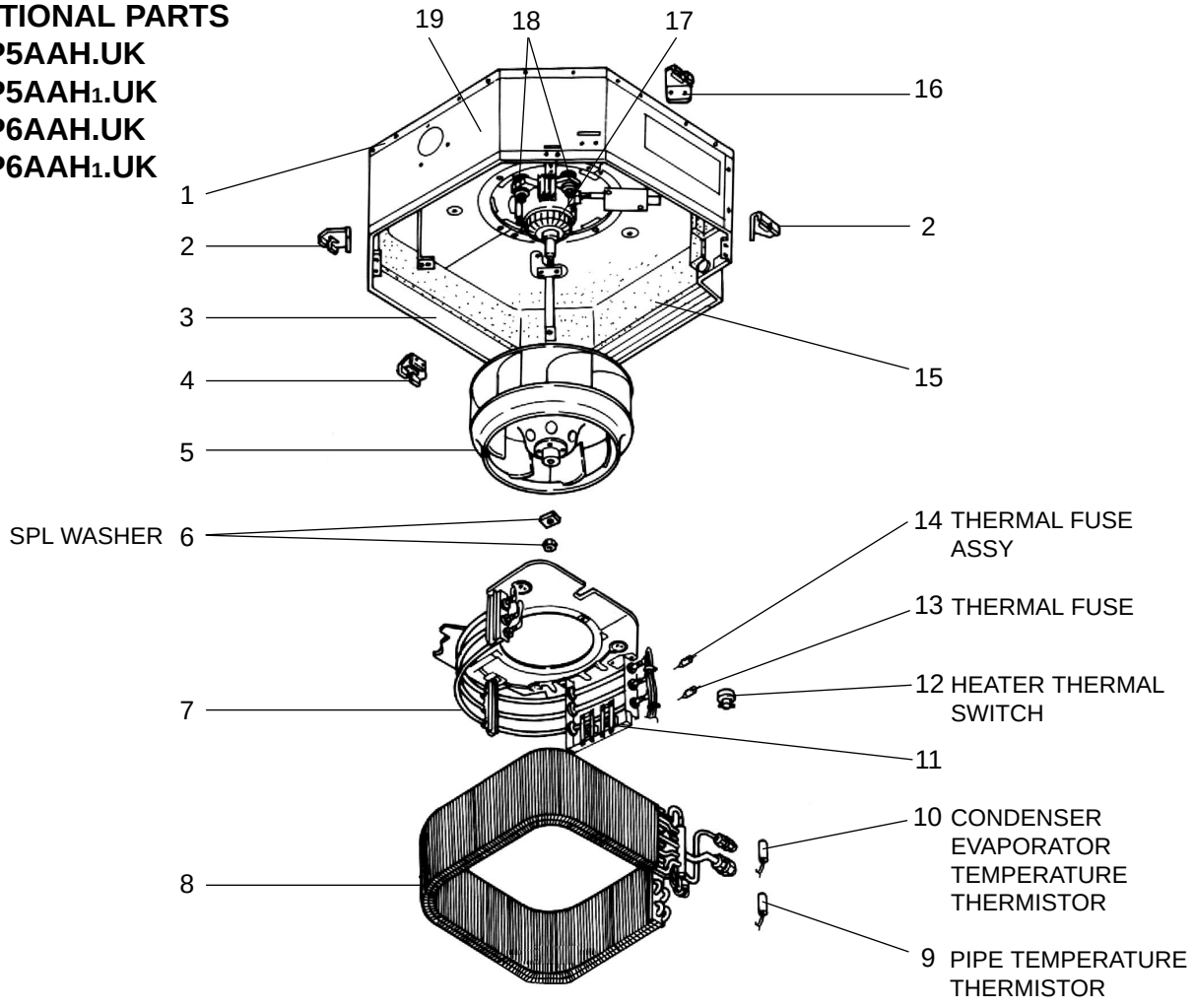
No.	Parts No.	Parts Name	Specification	Q'ty / set PLH -P3/4/5/6				Remarks (Drawing No.)	Wiring Diagram Symbol	Recommended Q'ty	Price	
				AAH.UK		AAH1.UK					Unit	Amount
				WIRED	WIRELESS	WIRED	WIRELESS					
1	S70 E10 003	AIR OUTLET GRILLE		1	1	1	1					
2	S70 E01 002	VANE ASSY		4	4	4	4					
3	S70 E01 638	CORNER PANEL		1	2	1	2					
4	S70 E00 638	CORNER PANEL		3	2	3	2					
5	S70 E00 500	L.L FILTER-A		1	1	1	1					
6	S70 E00 691	GRILLE ASSY		1	1	1	1					
7	S70 24K 658	RECEVER			1		1		RU			
8	S70 E00 317	WIRELESS ADAPTER			1		1		W.B			
9	S70 E00 223	STEPPING MOTOR		4	4	4	4		MV			
10	S70 E00 063	VANE BUSH		8	8	8	8					
11	S70 E00 040	GEAR (VANE)		4	4	4	4					
12	S70 E01 040	GEAR		4	4	4	4					
13	S70 E03 713	REMOTE CONTROLLER ASSY	PAR-S27A-E	1					R.B			
	S70 E13 713	REMOTE CONTROLLER ASSY	PAR-20MAA-E			1			R.B			
14	S70 E05 714	WIRELESS REMOTE CONTROLLER ASSY	PAR-SL95A-E		1							
	S70 E15 714	WIRELESS REMOTE CONTROLLER ASSY	PAR-SL97A-E				1					
15	S70 58A 246	CORD		1	1	1	1					

FUNCTIONAL PARTS
PLH-P3AAH.UK, PLH-P4AAH.UK, PLH-P3AAH$_1$.UK, PLH-P4AAH$_1$.UK



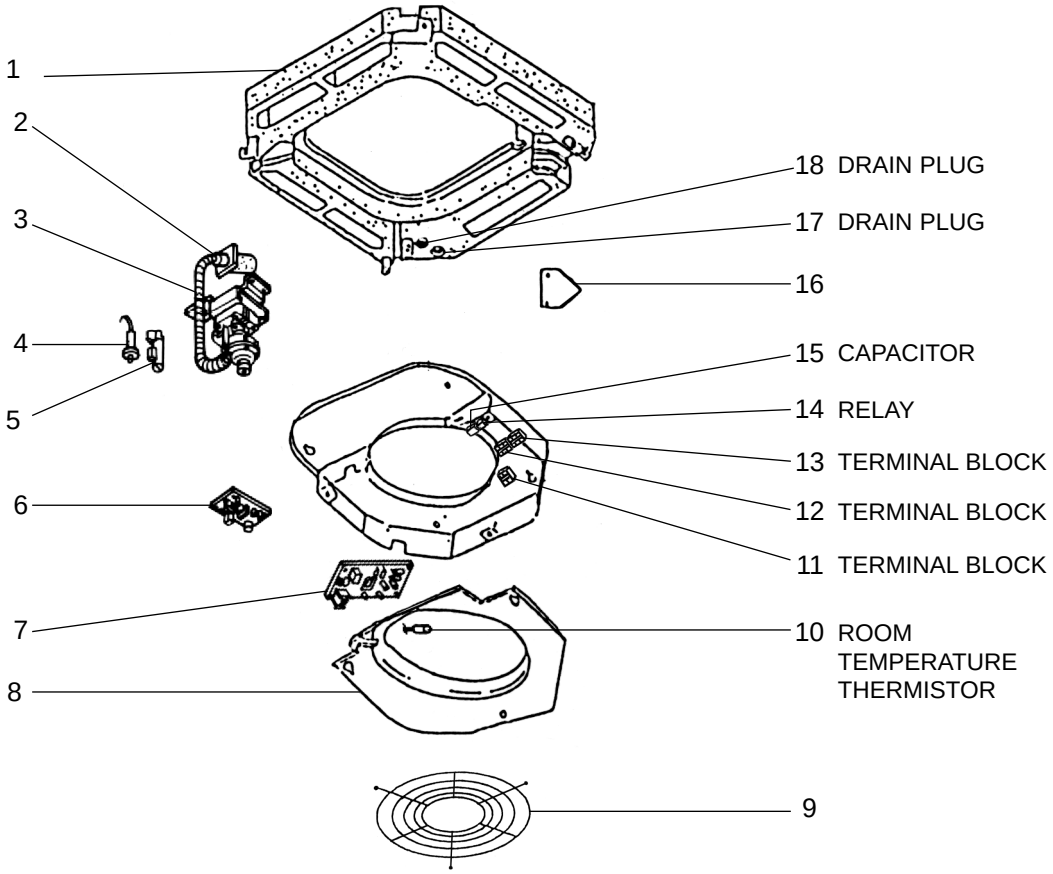
No.	Parts No.	Parts Name	Specification	Q'ty / set				Remarks (Drawing No.)	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PLH -P3		PLH -P4					Unit	Amount
				AAH.UK	AAH$_1$.UK	AAH.UK	AAH$_1$.UK					
1	S70 003 687	BASE		1	1	1	1					
2	S70 E01 130	LEG		2	2	2	2					
3	S70 005 688	DRUM 1 ASSY		1	1							
	S70 007 688	DRUM 1 ASSY				1	1					
4	S70 E00 130	LEG		1	1	1	1					
5	S70 E00 114	TURBO FAN		1	1							
	S70 E01 114	TURBO FAN				1	1					
6	S70 08K 097	SPL WASHER		1	1	1	1					
7	S70 E07 300	HEATER ELEMENT	240V/700W	3	3				H1			
	S70 E06 300	HEATER ELEMENT	240V/867W			3	3		H1			
8	S70 E20 480	HEAT EXCHANGER		1	1							
	S70 E21 480	HEAT EXCHANGER				1	1					
9	S70 17J 202	PIPE TEMPERATURE THERMISTOR		1	1	1	1		TH2			
10	S70 E20 202	CONDENSER EVAPORATOR TEMPERATURE THERMISTOR		1	1	1	1		TH5			
11	S70 20J 303	INSULATOR		1	1	1	1					
12	S70 46K 700	HEATER THERMAL SWITCH	50°C OFF	1	1	1	1		26H			
13	S70 E02 706	THERMAL FUSE	104°C, 16A	1	1	1	1		FS2			
14	S70 E03 706	THERMAL FUSE	72°C, 16A	1	1	1	1		FS1			
15	S70 E01 659	INNER COVER		1	1							
	S70 E03 659	INNER COVER				1	1					
16	S70 E02 130	LEG		1	1	1	1					
17	S70 E06 762	FAN MOTOR	D17B6P70MS	1	1				MF			
	S70 E07 762	FAN MOTOR	D176P120MS			1	1		MF			
18	S70 A41 105	MOTOR MOUNT		4	4	4	4					
19	S70 006 688	DRUM 2 ASSY		1	1							
	S70 008 688	DRUM 2 ASSY				1	1					

FUNCTIONAL PARTS
PLH-P5AAH.UK
PLH-P5AAH1.UK
PLH-P6AAH.UK
PLH-P6AAH1.UK



No.	Parts No.	Parts Name	Specification	Q'ty / set				Remarks (Drawing No.)	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PLH -P5		PLH -P6					Unit	Amount
				AAH.UK	AAH1.UK	AAH.UK	AAH1.UK					
1	S70 003 687	BASE		1	1	1	1					
2	S70 E01 130	LEG		2	2	2	2					
3	S70 007 688	DRUM 1 ASSY		1	1	1	1					
4	S70 E00 130	LEG		1	1	1	1					
5	S70 E01 114	TURBO FAN		1	1	1	1					
6	S70 08K 097	SPL WASHER		1	1	1	1					
7	S70 E05 300	HEATER ELEMENT	240V/1000W	3	3	3	3		H1			
8	S70 E21 480	HEAT EXCHANGER		1	1							
	S70 E22 480	HEAT EXCHANGER				1	1					
9	S70 17J 202	PIPE TEMPERATURE THERMISTOR		1	1	1	1		TH2			
10	S70 E20 202	CONDENSER EVAPORATOR TEMPERATURE THERMISTOR		1	1	1	1		TH5			
11	S70 20J 303	INSULATOR		1	1	1	1					
12	S70 46K 700	HEATER THERMAL SWITCH	50°C OFF	1	1	1	1		26H			
13	S70 E02 706	THERMAL FUSE	104°C, 16A	1	1	1	1		FS2			
14	S70 E03 706	THERMAL FUSE	72°C, 16A	1	1	1	1		FS1			
15	S70 E03 659	INNER COVER		1	1	1	1					
16	S70 E02 130	LEG		1	1	1	1					
17	S70 E07 762	FAN MOTOR	D176P120MS	1	1	1	1		MF			
18	S70 A41 105	MOTOR MOUNT		4	4	4	4					
19	S70 008 688	DRUM 2 ASSY		1	1	1	1					

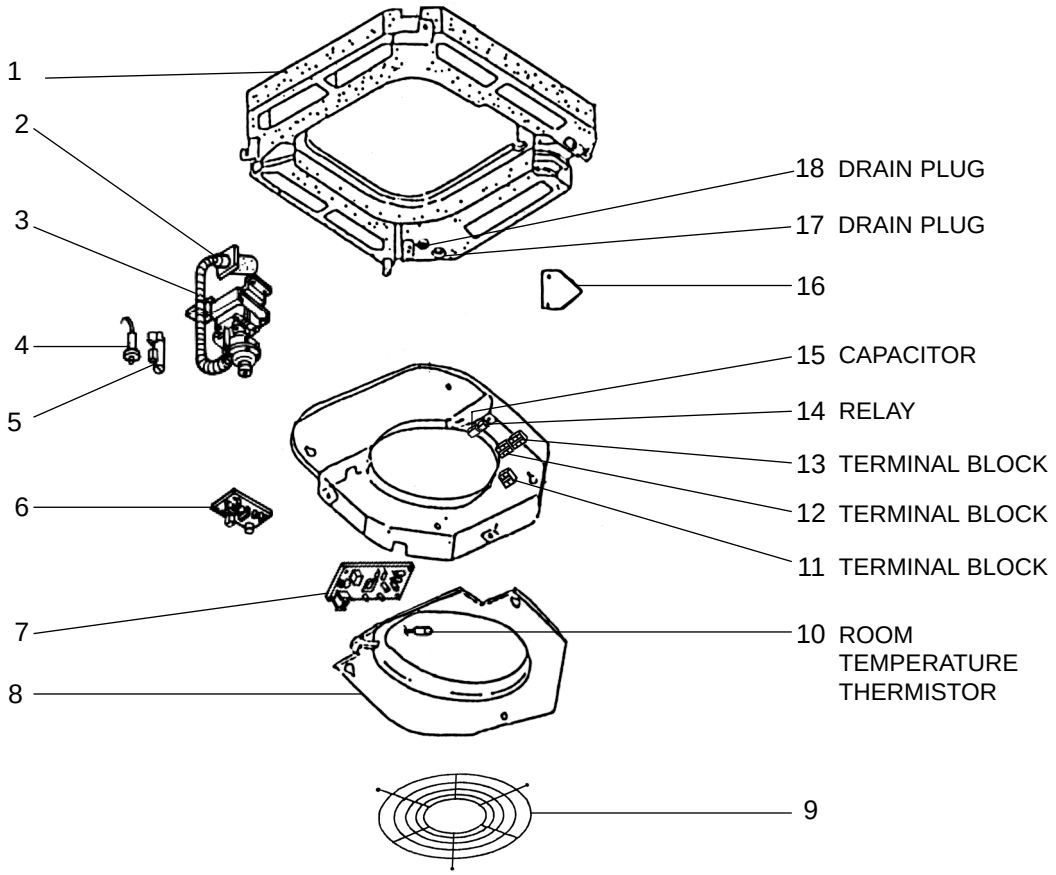
FUNCTIONAL PARTS
PLH-P3AAH.UK, PLH-P4AAH.UK,
PLH-P3AAH$_1$.UK, PLH-P4AAH$_1$.UK



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

No.	Parts No.	Parts Name	Specification	Q'ty / set				Remarks (Drawing No.)	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PLH -P3		PLH -P4					Unit	Amount
				AAH.UK	AAH$_1$.UK	AAH.UK	AAH$_1$.UK					
1	S70 E02 529	DRAIN PAN		1	1							
	S70 E00 529	DRAIN PAN				1	1					
2	S70 29H 523	DRAIN SOCKET		1	1	1	1					
3	S70 E01 355	DRAIN PUMP		1	1	1	1		DP			
4	S70 E00 266	DRAIN SENSOR		1	1	1	1		DS			
5	S70 31K 241	DRAIN SENSOR HOLDER		1	1	1	1					
6	S70 E20 313	POWER BOARD		1	1	1	1		P.B			
7	S70 E20 310	INDOOR CONTROLLER BOARD		1	1				I.B			
	S70 E21 310	INDOOR CONTROLLER BOARD				1	1		I.B			
8	S70 003 503	CONTROL COVER ASSY		1	1	1	1					
9	S70 E10 675	FAN GUARD		1	1	1	1					
10	S70 E00 202	ROOM TEMPERATURE THERMISTOR		1	1	1	1		TH1			
11	S70 512 716	TERMINAL BLOCK	2P (1, 2)	1	1	1	1		TB5			
12	S70 517 716	TERMINAL BLOCK	3P (S1, S2, S3)	1	1	1	1		TB4			
13	S70 A14 716	TERMINAL BLOCK	2P (L, N)	1	1	1	1		TB2			
14	S70 71G 215	RELAY	JC-1A DC12V	1	1	1	1		88H			
15	S70 17T 255	CAPACITOR	3.5μF 440V	1	1				C			
	S70 E02 255	CAPACITOR	7.0μF 440V			1	1		C			
16	S70 001 663	CORNER COVER		1	1	1	1					
17	S70 A48 524	DRAIN PLUG		1	1	1	1					
18	S70 A41 524	DRAIN PLUG		1	1	1	1					
⑲	S70 W29 527	DRAIN HOSE		1	1	1	1					

FUNCTIONAL PARTS
PLH-P5AAH.UK, PLH-P6AAH.UK
PLH-P5AAH1.UK, PLH-P6AAH1.UK



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

No.	Parts No.	Parts Name	Specification	Q'ty / set				Remarks (Drawing No.)	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PLH -P5		PLH -P6					Unit	Amount
				AAH.UK	AAH1.UK	AAH.UK	AAH1.UK					
1	S70 E00 529	DRAIN PAN		1	1							
	S70 E01 529	DRAIN PAN				1	1					
2	S70 29H 523	DRAIN SOCKET		1	1	1	1					
3	S70 E01 355	DRAIN PUMP		1	1	1	1		DP			
4	S70 E00 266	DRAIN SENSOR		1	1	1	1		DS			
5	S70 31K 241	DRAIN SENSOR HOLDER		1	1	1	1					
6	S70 E20 313	POWER BOARD		1	1	1	1		P.B			
7	S70 E22 310	INDOOR CONTROLLER BOARD		1	1				I.B			
	S70 E23 310	INDOOR CONTROLLER BOARD				1	1		I.B			
8	S70 003 503	CONTROL COVER ASSY		1	1	1	1					
9	S70 E10 675	FAN GUARD		1	1	1	1					
10	S70 E00 202	ROOM TEMPERATURE THERMISTOR		1	1	1	1		TH1			
11	S70 512 716	TERMINAL BLOCK	2P (1, 2)	1	1	1	1		TB5			
12	S70 517 716	TERMINAL BLOCK	3P (S1,S 2, S3)	1	1	1	1		TB4			
13	S70 A14 716	TERMINAL BLOCK	2P (L, N)	1	1	1	1		TB2			
14	S70 71G 215	RELAY	JC-1A DC12V	1	1	1	1		88H			
15	S70 E02 255	CAPACITOR	7.0μF 440V	1	1	1	1		C			
16	S70 001 663	CORNER COVER		1	1	1	1					
17	S70 A48 524	DRAIN PLUG		1	1	1	1					
18	S70 A41 524	DRAIN PLUG		1	1	1	1					
⑲	S70 W29 527	DRAIN HOSE		1	1	1	1					

13 OPTIONAL PARTS

1. TIMER

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

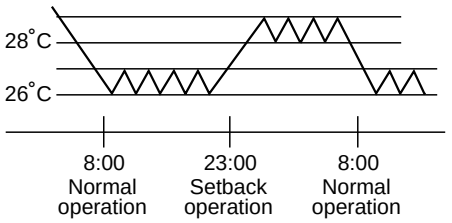
1-1 Program timer specifications

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℃
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)

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.

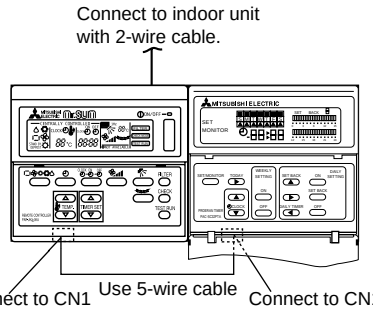


(3) Weekly timer function
Daily timer function can apply to each day of the week.

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.

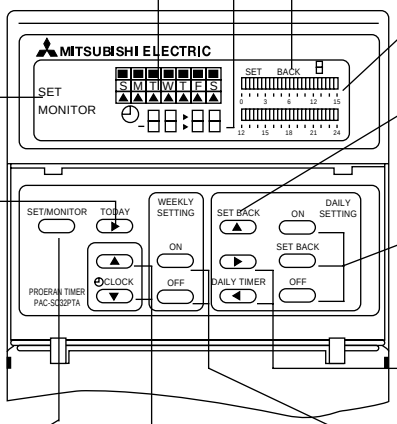
(2) Connect the program timer and the remote controller with a 5-wire cable as shown in the figure below.



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

1-4. Names and functions

<PAC-SC32PTA>



WEEKLY TIMER SETTING DISPLAY

Used for selection of if or not the day operation pattern set by PATTERN SETTING is to be applied in weekly day unit, setting.

CURRENT TIME DISPLAY

During MONITOR status,current time is display.
During Daily timer setting, a time desire for timer setting is displayed.

SET BACK DISPLAY

Indicates the setting set back range.

DAILY TIMER SETTING DISPLAY

24 hours is divided into 48 blocks and each block express 30 minutes.
The block display consists of 3 pattern.

Set back can be done in the range of 1,2,4,6 and 8°C.

SET BACK SETTING SW

Used for set back setting.

SET/MONITOR DISPLAY

During SET is display, clock adjustment, change of weekly day, daily and weekly timer setting can be performed.
During MONITOR is display, all switches except SET/MONITOR SW are invalidated. This is normal status.

ON/SET BACK/OFF SW

Used to specify the time setting pattern.

WEEK DAY SETTING SW

Used for week day setting.

DAILY TIMER SW

Used for timer setting in 30 minutes unit.

MODE SELECTOR SW

Using this switch select “MONITOR” or “SET” Mode.

“MONITOR” :Indicates the current timer setting. All switch expect MODE SELECTOR SW are invalidated then.This is the normal status.

“SET”: Set to “SET” mode for clock adjustment, charge of week day, daily and weekly timer setting.

CLOCK ADJUSTMENT SW

Used for adjustment of the current time.

Push ▲ SW to advance the time. Each time the button is pushed the time advance by 1 minute, pushing continuously advances by 1 minute at 0.5 second interval, and when the lower digit of minute becomes 0 indication advances in 10 minutes unit.

▼ SW is used for reversing the time. Each time the button is pushed the time reverses by 1 minute, pushing continuously reverses the time by 1 minute at 0.5 second interval, and when the lower digit of minute becomes 0 indication reverses in 10 minutes unit.

WEEKLY TIMER SW

Used for setting timer in day of week unit.

Pushing ▶ SW moves the week day light display in order of
S → M → T → W ···
enabling to set the week day.

2. Multi-Functional Casement

Part No.	PAC-SG03TM-E
Applied Service Ref.	PLH-P3/4/5/6AAH.UK, PLH-P3/4/5/6AAH$_1$.UK

3. High-Efficiency Filter Element (2. Multi-Functional Casement is needed.)

Part No.	PAC-SG01KF
Applied Service Ref.	PLH-P3/4/5/6/AAH.UK, PLH-P3/4/5/6AAH$_1$.UK

4. Grille + Wireless Remote Controller

Part No.	PLP-6AALA	PLP-6AALM
Applied Service Ref.	PLH-P3/4/5/6/AAH.UK	PLH-P3/4/5/6AAH$_1$.UK

5. Grille + Wired Remote Controller

Part No.	PLP-6AAA	PLP-6AAM
Applied Service Ref.	PLH-P3/4/5/6/AAH.UK	PLH-P3/4/5/6AAH$_1$.UK

6. Remote Sensor

Part No.	PAC-SE41TS-E
Applied Service Ref.	PLH-P3/4/5/6/AAH.UK, PLH-P3/4/5/6AAH$_1$.UK

7. Remote Operation Adapter

Part No.	PAC-SF40RM-E
Applied Service Ref.	PLH-P3/4/5/6/AAH.UK, PLH-P3/4/5/6AAH$_1$.UK

8. Remote ON/OFF Adapter

Part No.	PAC-SE55RA-E
Applied Service Ref.	PLH-P3/4/5/6/AAH.UK, PLH-P3/4/5/6AAH$_1$.UK

9. Air Outlet Shutter Plate (20set , 2pcs/set)

Part No.	PAC-SG06SP-E
Applied Service Ref.	PLH-P3/4/5/6/AAH.UK, PLH-P3/4/5/6AAH$_1$.UK

Mr.SLIM™

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