

TECHNICAL & SERVICE MANUAL

R407C

Outdoor unit
 [model names]

PUH-P1VGAA

PUH-P1.6VGAA PU-P1.6VGAA

PUH-P1.6YGAA PU-P1.6YGAA

PUH-P2VGAA PU-P2VGAA

PUH-P2YGAA PU-P2YGAA

PUH-P2.5VGAA PU-P2.5VGAA

PUH-P2.5YGAA PU-P2.5YGAA

PUH-P3VGAA PU-P3VGAA

PUH-P3YGAA PU-P3YGAA

PUH-P4VGAA PU-P4VGAA

PUH-P4YGAA PU-P4YGAA

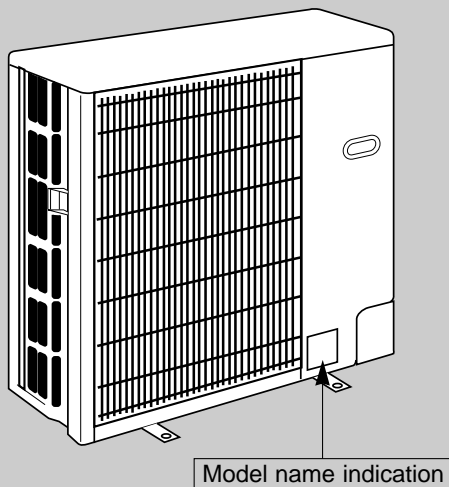
PUH-P5YGAA PU-P5YGAA

PUH-P6YGAA PU-P6YGAA

Service Ref. is on page 2.

Revision:

- [PUH-5, 6YGAA1.UK PU-5, 6YGAA1.UK]
 TECHNICAL CHANGES, SPECIFICATIONS,
 DATA and PARTS LIST have been partially
 modified.
 COMPRESSOR CONVERSION KIT(TFD-230)
 has been added to the PARTS LIST(page 69).
- Please void OC261 REVISED EDITION-A.



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[Service Ref.]

PUH-P1VGAA.UK

PUH-P1.6VGAA.UK

PUH-P1.6YGAA.UK

PUH-P2VGAA.UK

PUH-P2YGAA.UK

PUH-P2.5VGAA.UK

PUH-P2.5YGAA.UK

PUH-P3VGAA.UK

PUH-P3YGAA.UK

PUH-P4VGAA.UK

PUH-P4YGAA.UK

PUH-P5YGAA.UK

PUH-P6YGAA.UK

PU-P1.6VGAA.UK

PU-P1.6YGAA.UK

PU-P2VGAA.UK

PU-P2YGAA.UK

PU-P2.5VGAA.UK

PU-P2.5YGAA.UK

PU-P3VGAA.UK

PU-P3YGAA.UK

PU-P4VGAA.UK

PU-P4YGAA.UK

PU-P5YGAA.UK

PU-P6YGAA.UK

PUH-P1VGAA₁.UK

PUH-P1.6VGAA₁.UK

PUH-P1.6YGAA₁.UK

PUH-P2VGAA₁.UK

PUH-P2YGAA₁.UK

PUH-P2.5VGAA₁.UK

PUH-P2.5YGAA₁.UK

PUH-P3VGAA₁.UK

PUH-P3YGAA₁.UK

PUH-P4VGAA₁.UK

PUH-P4YGAA₁.UK

PUH-P5YGAA₁.UK

PUH-P6YGAA₁.UK

PU-P1.6VGAA₁.UK

PU-P1.6YGAA₁.UK

PU-P2VGAA₁.UK

PU-P2YGAA₁.UK

PU-P2.5VGAA₁.UK

PU-P2.5YGAA₁.UK

PU-P3VGAA₁.UK

PU-P3YGAA₁.UK

PU-P4VGAA₁.UK

PU-P4YGAA₁.UK

PU-P5YGAA₁.UK

PU-P6YGAA₁.UK

(REVISED EDITION-A)

PUH-P1, 1.6, 2, 2.5, 3, 4VGAA.UK → PUH-P1, 1.6, 2, 2.5, 3, 4VGAA₁.UK

PUH-P1.6, 2, 2.5, 3, 4YGAA.UK → PUH-P1.6, 2, 2.5, 3, 4YGAA₁.UK

PU-P1.6, 2, 2.5, 3, 4VGAA.UK → PU-P1.6, 2, 2.5, 3, 4VGAA₁.UK

PU-P1.6, 2, 2.5, 3, 4YGAA.UK → PU-P1.6, 2, 2.5, 3, 4YGAA₁.UK

- Strainer (#50) for stop valve of liquid pipe side and Filter Drier are not used.

(REVISED EDITION-A)

PUH-P1, 1.6, 2, 2.5, 3, 4VGAA.UK → PUH-P1, 1.6, 2, 2.5, 3, 4VGAA₁.UK

PUH-P1.6, 2, 2.5, 3, 4, 5, 6YGAA.UK → PUH-P1.6, 2, 2.5, 3, 4, 5, 6YGAA₁.UK

PU-P1.6, 2, 2.5, 3, 4VGAA.UK → PU-P1.6, 2, 2.5, 3, 4VGAA₁.UK

PU-P1.6, 2, 2.5, 3, 4, 5, 6YGAA.UK → PU-P1.6, 2, 2.5, 3, 4, 5, 6YGAA₁.UK

- Microcomputer of Outdoor Controller Board has changed since Filter Drier is not used.
(The limit of discharging temperature has been added.)

(REVISED EDITION-A)

PUH-P5YGAA.UK → PUH-P5YGAA₁.UK

- The method of connecting the Compressor's terminals has changed from Faston type to Screw type.

(REVISED EDITION-B)

PUH-P5YGAA₁.UK PUH-P6YGAA₁.UK

PU-P5YGAA₁.UK PU-P6YGAA₁.UK

- Compressor has changed due to the change in refrigerant oil.

Refrigerant oil : 3MA-POE → 3MAW-POE

Compressor model : ZR61KCE-TFD-522 → ZR61KCW-TFD-522

ZR72KCE-TFD-522 → ZR72KCW-TFD-522

Cautions for using with the outdoor unit which adopts R407C refrigerant.

- **Do not use the existing refrigerant piping.**
 - The old refrigerant and refrigerant oil in the existing piping contains a large amount of chlorine which may cause the refrigerant oil of the new unit to deteriorate.
 - **Do not use copper pipes which are broken, deformed or discolour .**
 - In addition, be sure that the inner surfaces of the pipes are clean, free of hazardous sulphur and oxides, or have no dust / dirt, shaving particles, oils, moisture or any other contamination.
 - If there is a large amount of residual oil (hydraulic oil, etc.) inside the piping and joints, deterioration of the refrigerant 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 ester oil, ether oil or alkyl benzene (small amount) as the refrigerant oil to coat flares and flange connections.**
 - The refrigerant oil will degrade if it is mixed with a large amount of mineral oil.
- Use liquid refrigerant to fill the system.**
- If gas refrigerant is used to fill 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 refrigerant 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 refrigerant oil to deteriorate.
 - **Do not use the following tools that are used with conventional refrigerant. (Gauge manifold , charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, refrigerant recovery equipment)**
 - If the conventional refrigerant and refrigerant oil are mixed in the R407C, the refrigerant may deteriorated.
 - If water is mixed in the R407C, the refrigerant oil may deteriorate.
 - Since R407C does not contain any chlorine, gas leak detectors for conventional refrigerant will not react to it.
 - **Do not use a charging cylinder.**
 - Using a charging cylinder may cause the refrigerant to deteriorate.
 - **Be especially careful when managing the tools.**
 - if dust, dirt, or water gets in the refrigerant cycle, the refrigerant may deteriorate.
 - **Do not use the drier which is sold in the field.**
 - The drier for R407C refrigerant is pre-attached to outdoor unit refrigerant circuit.
 - Some drier in the field are not in conformity with R407C refrigerant.

[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 3.43MPa-G or over.
②	Charge hose	·Only for R407C.
		·Use pressure performance of 5.10MPa-G or over.
③	Electronic scale	
④	Gas leak detector	·Use the detector for 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.	

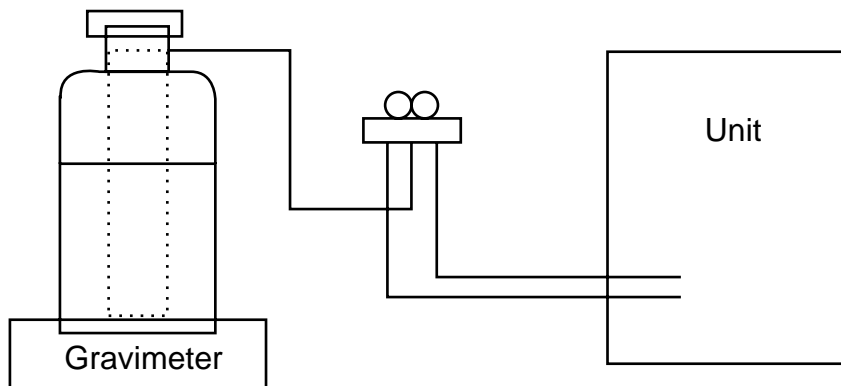
[2] Notice on repair

- After recovering the all refrigerant in the unit, perform repair work.
- Do not release refrigerant in the air.
- After completing the repair work, recharge the specified amount of liquid refrigerant.

[3] Refrigerant recharging

(1) Refrigerant recharging process

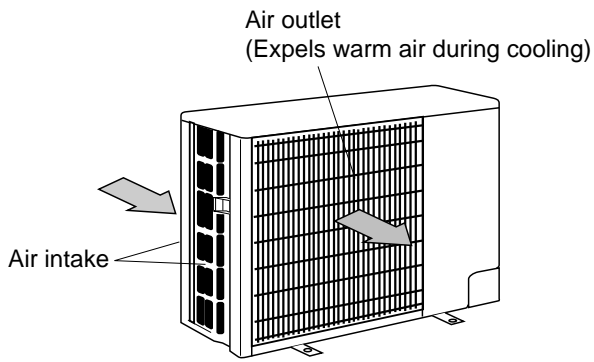
- ① Direct charging from the cylinder.
 - R407C cylinder are available on the market has a syphon pipe.
 - Leave the syphon pipe cylinder standing and recharge it.
 (By liquid refrigerant)



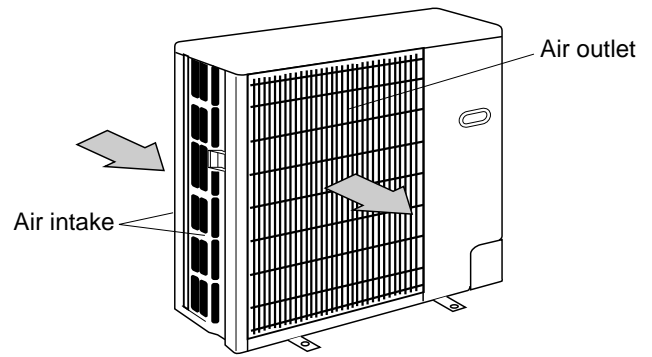
(2) Recharge in refrigerant leakage case

- After recovering the all refrigerant in the unit, proceed to working.
- Do not release the refrigerant in the air.
- After completing the repair service, recharge the cycle with the specified amount of liquid refrigerant.

	Indoor unit		Outdoor unit																											
			Heat pump type								Cooling only type																			
			PUH-P • GAA.UK PUH-P • GAA ₁ .UK								PU-P • GAA.UK PU-P • GAA ₁ .UK																			
	Service Ref.	Service Manual No.	1	1.6		2		2.5		3		4		5		6		1.6		2		2.5		3		4		5		6
V			V	Y	V	Y	V	Y	V	Y	V	Y	Y	Y	V	Y	V	Y	V	Y	V	Y	V	Y	V	Y	Y	Y		
Heat pump with electric heater	PEHD-P•EAH	MEE 01K048	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PCH-P•GAH ₁	OC182 REVISÉD EDITION-B	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PKH-P•GALH ₁	OC176 REVISÉD EDITION-B	—	○	○	○	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	PKH-P•FALH ₂	OC175 REVISÉD EDITION-B	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PSH-P•GAH ₁	OC212 REVISÉD EDITION-A	—	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PLH-P•KAH ₁ .UK	OC235 REVISÉD EDITION-A	—	○	○	○	○	○	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	PLH-P•AAH ₁ .UK	OC236 REVISÉD EDITION-A	—	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Heat pump without electric heater or Cooling only	PEAD-P•EA	MEE 01K048	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PCA-P•GA ₁	OC182	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PKA-P•GAL ₁	OC176 REVISÉD EDITION-B	—	○	○	○	○	—	—	—	—	—	—	—	—	○	○	○	○	—	—	—	—	—	—	—	—	—	—	—
	PKA-P•FAL ₂	OC175 REVISÉD EDITION-B	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PSA-P•GA ₁	OC212 REVISÉD EDITION-B	—	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PLA-P•KA ₁ .UK	OC240 REVISÉD EDITION-A	—	○	○	○	○	○	○	—	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PLA-P•AA ₁ .UK	OC241 REVISÉD EDITION-A	—	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PMH-P•BA ₁	OC238 REVISÉD EDITION-A	○	○	○	○	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	PMH-P•BA ₂	OC279 REVISÉD EDITION-B	○	○	○	○	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	PCA-P•HA	OC289	—	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

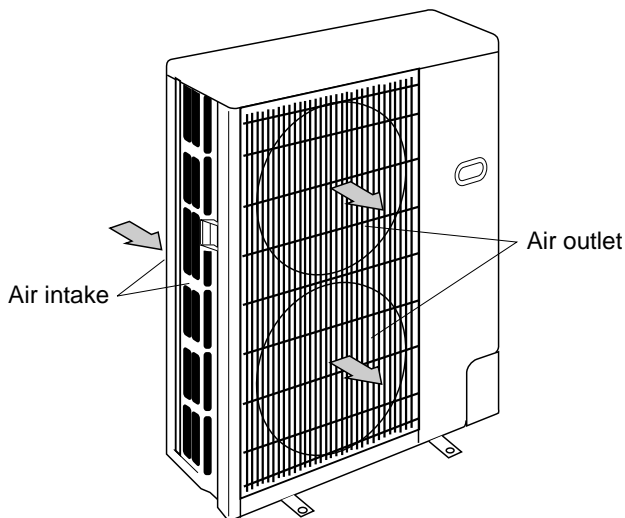


PUH-P1VGAA.UK
 PU(H)-P1.6VGAA.UK
 PU(H)-P1.6YGAA.UK
 PUH-P1VGAA₁.UK
 PU(H)-P1.6VGAA₁.UK
 PU(H)-P1.6YGAA₁.UK

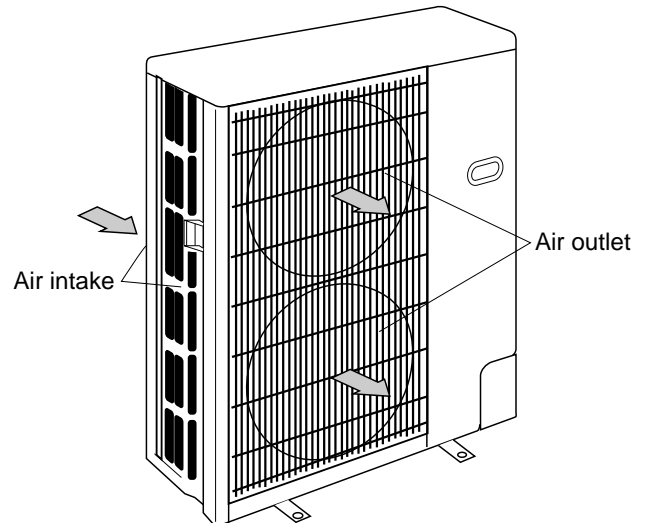


PU(H)-P2VGAA.UK
 PU(H)-P2.5VGAA.UK
 PU(H)-P3VGAA.UK
 PU(H)-P2VGAA₁.UK
 PU(H)-P2.5VGAA₁.UK
 PU(H)-P3VGAA₁.UK

PU(H)-P2YGAA.UK
 PU(H)-P2.5YGAA.UK
 PU(H)-P3YGAA.UK
 PU(H)-P2YGAA₁.UK
 PU(H)-P2.5YGAA₁.UK
 PU(H)-P3YGAA₁.UK



PU(H)-P4VGAA.UK
 PU(H)-P4YGAA.UK
 PU(H)-P4VGAA₁.UK
 PU(H)-P4YGAA₁.UK



PU(H)-P5YGAA.UK
 PU(H)-P6YGAA.UK
 PU(H)-P5YGAA₁.UK
 PU(H)-P6YGAA₁.UK

CHARGELESS SYSTEM

**PRE-CHARGED REFRIGERANT IS SUPPLIED FOR PIPING LENGTH AT SHIPMENT.
 (Max.20m(PU(H)-P1~P2.5) / 30m(PU(H)-P3~P6))**

The refrigerant circuit with LEV(Linear Expansion Valve) and a large accumulator always control the optimal refrigerant level regardless of the length (20/30m max. and 5m min.) of piping. The additional refrigerant charging work during installation often causes problems. Heretofore it is completely eliminated. This unique system improves the quality and reliability of the work done. It also helps to speed up the installation time.

5

SPECIFICATIONS

1. Heat pump

Service Ref.	PUH-P1VGAA.UK PUH-P1VGAA ₁ .UK		PUH-P1.6VGAA / YGAA.UK PUH-P1.6VGAA ₁ / YGAA ₁ .UK		
	Function	Cooling	Heating	Cooling	Heating
Power supply (phase, cycle, voltage)	Single,50Hz,220-230-240V		Single,50Hz,220-230-240V / 3-ph,50Hz,380-400-415V		
Input	kW	1.11	1.02	1.59	1.64
Running current	A	4.92	4.52	7.36 / 2.49	7.59 / 2.56
Starting current	A	30		36/20	
External finish	Munsell 5Y 7/1				
Refrigerant control	Linear Expansion Valve				
Compressor	Hermetic				
Model	RE189VHSMT		RE277VHSMT/RE277YFKM		
Motor output	kW	0.9		1.3	
Starter type	Line start				
Protection devices	Internal thermostat HP switch Discharge thermo		Internal thermostat HP switch Discharge thermo		Thermal relay HP switch HP switch Discharge thermo
Crankcase heater	W	30			
Heat exchanger	Plate fin coil				
Fan	Fan(drive) × No.	Propeller (direct) × 1			
	Fan motor output	kW		0.07	
	Airflow	m ³ /min(CFM)	45(1,590)		45(1,590)
Defrost method	Reverse cycle				
Noise level	Cooling	dB	46		47
	Heating	dB	48		49
Dimensions	W	mm(in.)	900(35-7/16)		
	D	mm(in.)	330+20(13+3/4)		
	H	mm(in.)	650(25-5/8)		
Weight		kg(lbs)	50(110)		55(121)
Refrigerant	R407C				
Charge	kg(lbs)	1.7(3.8)		2.5(5.5)	
Oil (Model)	L	0.57(Ester)MEL56			
Pipe size O.D.	Liquid	mm(in.)	6.35(1/4)		9.52(3/8)
	Gas	mm(in.)	12.7(1/2)		15.88(5/8)
Connection method	Indoor side	Flared			
	Outdoor side	Flared			
Between the indoor & outdoor unit	Height difference	Max. 30m		Max. 40m	
	Piping length	Max. 30m		Max. 40m	

Notes1. Rating Conditions (ISO T1)

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

Heating : Indoor : D.B. 20°C(68°F) Outdoor : D.B. 7°C(45°F), W.B. 6°C(43°F)

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

2. Guaranteed operating range

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

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz

Outdoor Unit 1 phase 240V 50Hz / 3 phase 415V 50Hz

Service Ref.			PUH-P2VGAA / YGAA.UK PUH-P2VGAA ₁ / YGAA ₁ .UK		PUH-P2.5VGAA / YGAA.UK PUH-P2.5VGAA ₁ / YGAA ₁ .UK	
OUTDOOR UNIT	Function		Cooling	Heating	Cooling	Heating
	Power supply (phase, cycle, voltage)		Single, 50Hz, 220-230-240V/3-ph, 50Hz, 380-400-415V(4wires)			
	Input	kW	2.29	2.36	2.77	2.68
	Running current	A	10.26 / 3.70	10.57 / 3.82	11.90 / 4.48	11.51 / 4.34
	Starting current	A	62 / 31		77 / 35	
	External finish		Munsell 5Y 7/1			
	Refrigerant control		Linear Expansion Valve			
	Compressor		Hermetic			
	Model		NE36VMJMT / NE36YEKMT		NE41VMJMT / NE41YEKMT	
	Motor output	kW	1.6		1.9	
	Starter type		Line start			
	Protection devices		Internal thermostat / HP switch / Discharge thermo		Thermal relay / HP switch / Discharge thermo	
	Crankcase heater	W	38			
	Heat exchanger		Plate fin coil			
	Fan	Fan(drive) × No.		Propeller (direct) × 1		
		Fan motor output	kW	0.07		
		Airflow	m ³ /min(CFM)	55(1,940)		50(1,770)
	Defrost method		Reverse cycle			
Noise level	Cooling	dB	48			
	Heating	dB	49		50	
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)	71(157)		82(181)		
REFRIGERANT PIPING	Refrigerant		R407C			
	Charge	kg(lbs)	2.6(5.7)		3.1(6.8)	
	Oil (Model)	L	1.2 (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 unit	Height difference		Max. 40m		Max. 50m
Piping length			Max. 40m		Max. 50m	

Notes1. Rating Conditions (ISO T1)

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

2. Guaranteed operating range

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

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz
 Outdoor Unit 1 phase 240V 50Hz / 3 phase 415V 50Hz



Service Ref.		PUH-P3VGAA / YGAA.UK PUH-P3VGAA ₁ / YGAA ₁ .UK		PUH-P4VGAA / YGAA.UK PUH-P4VGAA ₁ / YGAA ₁ .UK	
Function		Cooling	Heating	Cooling	Heating
Power supply (phase, cycle, voltage)		Single, 50Hz, 220-230-240V/3-ph, 50Hz, 380-400-415V(4wires)			
Input	kW	3.27	3.48	3.43	3.62
Running current	A	14.81 / 5.29	15.76 / 5.63	15.71 / 5.55	16.58 / 5.86
Starting current	A	93 / 47		99 / 49	
External finish		Munsell 5Y 7/1			
Refrigerant control		Linear Expansion Valve			
Compressor		Hermetic			
Model		NE52VNJMT / NE52YDKMT		NE56VNJMT / NE56YDKMT	
Motor output	kW	2.5		2.7	
Starter type		Line start			
Protection devices		Internal thermostat / HP switch / Discharge thermo		Thermal relay / HP switch / Discharge thermo	
Crankcase heater	W	38			
Heat exchanger		Plate fin coil			
Fan	Fan(drive) × No.	Propeller (direct) × 1		Propeller (direct) × 2	
	Fan motor output	0.07		0.07+0.07	
	Airflow	50(1,770)		85(3,000)	
Defrost method		Reverse cycle			
Noise level	Cooling	dB		49	
	Heating	dB		51	
Dimensions	W	mm(in.)			
	D	900(35-7/16)			
	H	855(33-5/8)		330+20(13+3/4)	
Weight	kg(lbs)	82(181)		96(212)	
Refrigerant		R407C			
Charge	kg(lbs)	3.3(7.3)		4.0(8.8)	
Oil (Model)		1.3 (Ester)MEL56			
Pipe size O.D.	Liquid	mm(in.)			
	Gas	15.88(5/8)		9.52(3/8)	
Connection method	Indoor side	Flared			
	Outdoor side	Flared			
Between the indoor & outdoor unit	Height difference	Max. 50m			
	Piping length	Max. 50m			

Notes 1. Rating Conditions (ISO T1)

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

2. Guaranteed operating range

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

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz
 Outdoor Unit 1 phase 240V 50Hz / 3 phase 415V 50Hz

Service Ref.		PUH-P5YGAA.UK PUH-P5YGAA1.UK		PUH-P6YGAA.UK PUH-P6YGAA1.UK		
OUTDOOR UNIT	Function	Cooling	Heating	Cooling	Heating	
	Power supply (phase, cycle, voltage)	3-ph, 50Hz, 380-400-415V(4wires)				
	Input	kW	4.70	5.04	5.58	5.91
	Running current	A	7.60	8.15	9.03	9.56
	Starting current	A	65.5		74	
	External finish	Munsell 5Y 7/1				
	Refrigerant control	Linear Expansion Valve				
	Compressor	Hermetic				
	Model	ZR61KCE-TFD-230 (YGAA.UK)	ZR72KCW-TFD-522		ZR72KCW-TFD-522	
		ZR61KCW-TFD-522 (YGAA1.UK)				
	Motor output	kW	3.5		4.2	
	Starter type	Line start				
	Protection devices	Internal thermostat, thermal relay, HP switch, Discharge thermo				
	Crankcase heater	W	38			
	Heat exchanger	Plate fin coil				
	Fan	Fan(drive) × No.	Propeller (direct) × 2			
		Fan motor output	kW	0.07 +0.07		
		Airflow	m³/min(CFM)	95(3,360)	100(3,530)	
Defrost method	Reverse cycle					
Noise level	Cooling	dB(A)	55		57	
	Heating	dB(A)	56		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)	4.6(10.1)		4.9(10.8)	
	Oil (Model)	L	1.690 (Ester) 3MAW-POE		1.774 (Ester) 3MAW-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 unit	Height difference	Max. 50m				
	Piping length	Max. 50m				

Notes1. Rating Conditions (ISO T1)

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

2. Guaranteed operating range

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

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz
 Outdoor Unit 3 phase 415V 50Hz

2. Cooling only type

Service Ref.			PU-P1.6VGAA / YGAA.UK PU-P1.6VGAA: / YGAA:UK	PU-P2VGAA / YGAA.UK PU-P2VGAA: / YGAA:UK	PU-P2.5VGAA / YGAA.UK PU-P2.5VGAA: / YGAA:UK
OUTDOOR UNIT	Function		Cooling		Cooling
	Power supply (phase, cycle, voltage)		Single, 50Hz, 220-230-240V / 3-ph, 50Hz, 380-400-415V(4wires)		
	Input	kW	1.59	2.29	2.77
	Running current	A	7.36 / 2.49	10.26 / 3.70	11.90 / 4.48
	Starting current	A	36 / 20	62 / 31	77 / 35
	External finish		Munsell 5Y 7/1		
	Refrigerant control		Linear Expansion Valve		
	Compressor		Hermetic		
	Model		RE277VHSMT/RE277YFKM	NE36VMJMT/NE36YEKMT	NE41VMJMT/NE41YEKMT
	Motor output	kW	1.3	1.6	1.9
	Starter type		Line start		
	Protection devices		Internal thermostat, HP switch, Discharge thermo / Thermal relay, Discharge thermo, HP switch		
	Crankcase heater	W	30		38
	Heat exchanger		Plate fin coil		
	Fan	Fan(drive) × No.		Propeller (direct) × 1	
Fan motor output		kW	0.07		
Airflow		m ³ /min(CFM)	45(1,590)	55(1,940)	50(1,770)
Defrost method		—			
Noise level	Cooling	dB	47	48	
Dimensions	W	mm(in.)	900(35-7/16)		
	D	mm(in.)	330+20(13+3/4)		
	H	mm(in.)	650(25-5/8)	855(33-5/8)	
Weight		kg(lbs)	55(121)	71(157) / 82(181)	
REFRIGERANT PIPING	Refrigerant		R407C		
	Charge	kg(lbs)	2.5(5.5)	2.6(5.7)	3.1(6.8)
	Oil (Model)	L	0.57 (Ester)MEL56	1.2 (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 unit	Height difference		Max. 40m	Max. 50m	
	Piping length		Max. 40m	Max. 50m	

Notes1. Rating Conditions (ISO T1)

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

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz
Outdoor Unit 1 phase 240V 50Hz / 3phase 415V 50Hz

Service Ref.			PU-P3VGAA / YGAA.UK PU-P3VGAA ₁ / YGAA ₁ .UK	PU-P4VGAA / YGAA.UK PU-P4VGAA ₁ / YGAA ₁ .UK	
OUTDOOR UNIT	Function		Cooling		
	Power supply (phase, cycle, voltage)		Single, 50Hz, 220-230-240V/3-ph, 50Hz, 380-400-415V(4wires)		
	Input	kW	3.27	3.43	
	Running current	A	14.81 / 5.29	15.71 / 5.55	
	Starting current	A	93 / 47	99 / 49	
	External finish		Munsell 5Y 7/1		
	Refrigerant control		Linear Expansion Valve		
	Compressor		Hermetic		
	Model		NE52VNJMT / NE52YDKMT	NE56VNJMT / NE56YDKMT	
	Motor output	kW	2.5	2.7	
	Starter type		Line start		
	Protection devices		Internal thermostat / Thermal relay HP switch / HP switch Discharge thermo / Discharge thermo		
	Crankcase heater	W	38		
	Heat exchanger		Plate fin coil		
	Fan	Fan(drive) × No.		Propeller (direct) × 1	Propeller (direct) × 2
Fan motor output		0.07	0.07+0.07		
Airflow		50(1,770)	85(3,000)		
Defrost method		—			
Noise level	Cooling	dB	49	51	
Dimensions	W	mm(in.)	900(35-7/16)		
	D	mm(in.)	330+20(13+3/4)		
	H	mm(in.)	855(33-5/8)	1,260(49-5/8)	
Weight		kg(lbs)	82(181)	96(212)	
REFRIGERANT PIPING	Refrigerant		R407C		
	Charge	kg(lbs)	3.3(7.3)	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.)	15.88(5/8)	19.05(3/4)
	Connection method	Indoor side		Flared	
		Outdoor side		Flared	
Between the indoor & outdoor unit	Height difference		Max. 50m		
	Piping length		Max. 50m		

Notes1. Rating Conditions (ISO T1)

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

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz

Outdoor Unit 1 phase 240V 50Hz/3 phase 415V 50Hz

Service Ref.			PU-P5YGAA.UK PU-P5YGAA1.UK	PU-P6YGAA.UK PU-P6YGAA1.UK	
OUTDOOR UNIT	Function		Cooling		
	Power supply (phase, cycle, voltage)		3-ph, 50Hz, 380-400-415V(4wires)		
	Input	kW	4.70	5.58	
	Running current	A	7.60	9.03	
	Starting current	A	65.5	74	
	External finish		Munsell 5Y 7/1		
	Refrigerant control		Linear Expansion Valve		
	Compressor		Hermetic		
	Model		ZR61KCE-TFD-230 (YGAA.UK) ZR61KCW-TFD-522 (YGAA1.UK)	ZR72KCW-TFD-522	
	Motor output	kW	3.5	4.2	
	Starter type		Line start		
	Protection devices		Internal thermostat, thermal relay, HP switch, Discharge thermo		
	Crankcase heater	W	38		
	Heat exchanger		Plate fin coil		
	Fan	Fan(drive) × No.		Propeller (direct) × 2	
		Fan motor output	kW	0.07+0.07	
		Airflow	m ³ /min(CFM)	95(3,360)	100(3,530)
Defrost method		—			
Noise level	Cooling	dB	55	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		R407C			
Charge	kg(lbs)	4.6(10.1)	4.9(10.8)		
Oil (Model)	L	1.690 3MAW-POE	1.774 3MAW-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 unit	Height difference		Max. 50m		
	Piping length		Max. 50m		

Notes1. Rating Conditions (ISO T1)

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

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

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz

Outdoor Unit 3 phase 415V 50Hz

1. REFILLING REFRIGERANT CHARGE (R407C : kg)

Service Ref.	Piping length (one way)					Factory charged
	10m	20m	30m	40m	50m	
PUH-P1VGAA ⁽¹⁾ .UK	1.6	1.7	1.8	—	—	1.7
PUH-P1.6VGAA ⁽¹⁾ .UK PU-P1.6VGAA ⁽¹⁾ .UK	2.4	2.5	2.6	3.0	—	2.5
PUH-P1.6YGAA ⁽¹⁾ .UK PU-P1.6YGAA ⁽¹⁾ .UK	2.4	2.5	2.6	3.0	—	2.5
PUH-P2VGAA ⁽¹⁾ .UK PU-P2VGAA ⁽¹⁾ .UK	2.5	2.6	3.1	3.7	—	2.6
PUH-P2YGAA ⁽¹⁾ .UK PU-P2YGAA ⁽¹⁾ .UK	2.5	2.6	3.1	3.7	—	2.6
PUH-P2.5VGAA ⁽¹⁾ .UK PU-P2.5VGAA ⁽¹⁾ .UK	2.9	3.1	3.3	3.9	4.5	3.1
PUH-P2.5YGAA ⁽¹⁾ .UK PU-P2.5YGAA ⁽¹⁾ .UK	2.9	3.1	3.3	3.9	4.5	3.1
PUH-P3VGAA ⁽¹⁾ .UK PU-P3VGAA ⁽¹⁾ .UK	2.9	3.1	3.3	3.9	4.5	3.3
PUH-P3YGAA ⁽¹⁾ .UK PU-P3YGAA ⁽¹⁾ .UK	2.9	3.1	3.3	3.9	4.5	3.3
PUH-P4VGAA ⁽¹⁾ .UK PU-P4VGAA ⁽¹⁾ .UK	3.4	3.7	4.0	4.7	5.4	4.0
PUH-P4YGAA ⁽¹⁾ .UK PU-P4YGAA ⁽¹⁾ .UK	3.4	3.7	4.0	4.7	5.4	4.0
PUH-P5YGAA ⁽¹⁾ .UK PU-P5YGAA ⁽¹⁾ .UK	4.0	4.3	4.6	5.3	6.0	4.6
PUH-P6YGAA ⁽¹⁾ .UK PU-P6YGAA ⁽¹⁾ .UK	4.3	4.6	4.9	5.6	6.3	4.9

This is a dividing line between the ones that need no refrigerant charge and the ones that need additional refrigerant charge.

2. COMPRESSOR TECHNICAL DATA

(at 20°C)
[Except P5, P6]

Unit		PUH-P1VGAA ⁽¹⁾ .UK PU-P1.6VGAA ⁽¹⁾ .UK	PUH-P1.6VGAA ⁽¹⁾ .UK PU-P1.6VGAA ⁽¹⁾ .UK	PUH-P1.6YGAA ⁽¹⁾ .UK PU-P1.6YGAA ⁽¹⁾ .UK	PUH-P2VGAA ⁽¹⁾ .UK PU-P2VGAA ⁽¹⁾ .UK	PUH-P2YGAA ⁽¹⁾ .UK PU-P2YGAA ⁽¹⁾ .UK
Compressor model		RE189VHSMT	RE277VHSMT	RE277YFKM	NE36VMJMT	NE36YEKMT
Winding Resistance (Ω)	U-V (R-C)	2.79	1.80	10.8	0.89	5.01
	U-W (S-C)	3.36	3.00	10.8	2.03	5.01
	W-V	—	—	10.8	—	5.01

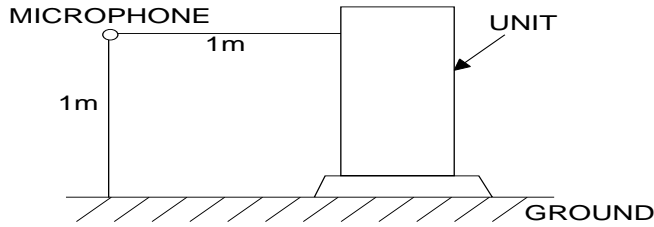
Unit		PUH-P2.5VGAA ⁽¹⁾ .UK PU-P2.5VGAA ⁽¹⁾ .UK	PUH-P2.5YGAA ⁽¹⁾ .UK PU-P2.5YGAA ⁽¹⁾ .UK	PUH-P3VGAA ⁽¹⁾ .UK PU-P3VGAA ⁽¹⁾ .UK	PUH-P3YGAA ⁽¹⁾ .UK PU-P3YGAA ⁽¹⁾ .UK
Compressor model		NE41VMJMT	NE41NEKMT	NE52VNJMT	NE52YDKMT
Winding Resistance (Ω)	U-V (R-C)	0.87	5.00	0.64	3.59
	U-W (S-C)	2.22	5.00	1.67	3.59
	W-V	—	5.00	—	3.59

(at 25°C)

(at 25°C)

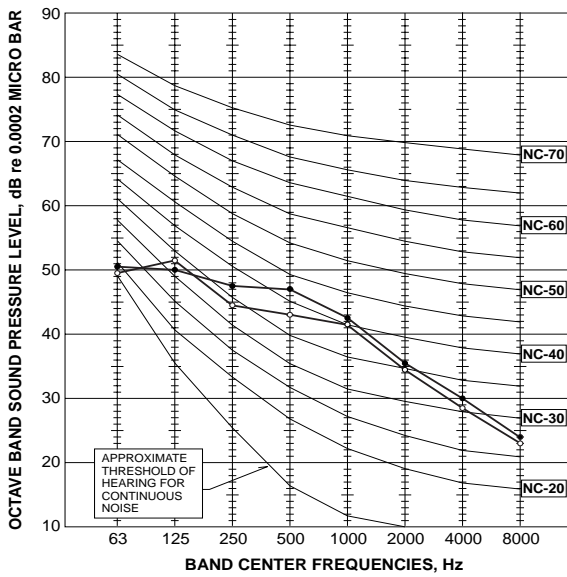
Unit		PUH-P4VGAA ⁽¹⁾ .UK PU-P4VGAA ⁽¹⁾ .UK	PUH-P4YGAA ⁽¹⁾ .UK PU-P4YGAA ⁽¹⁾ .UK	PUH-P5YGAA ⁽¹⁾ .UK PU-P5YGAA ⁽¹⁾ .UK	PUH-P6YGAA ⁽¹⁾ .UK PU-P6YGAA ⁽¹⁾ .UK
Compressor model		NE56VNJMT	NE56YDKMT	ZR61KCE-TFD ZR61KCW-TFD	ZR72KCW-TFD
Winding Resistance (Ω)	U-V (R-C)	0.62	3.32	0.628 ~ 0.722	0.517
	U-W (S-C)	1.59	3.32	0.628 ~ 0.722	0.517
	W-V	—	3.32	0.628 ~ 0.722	0.517

3. NOISE CRITERION CURVES



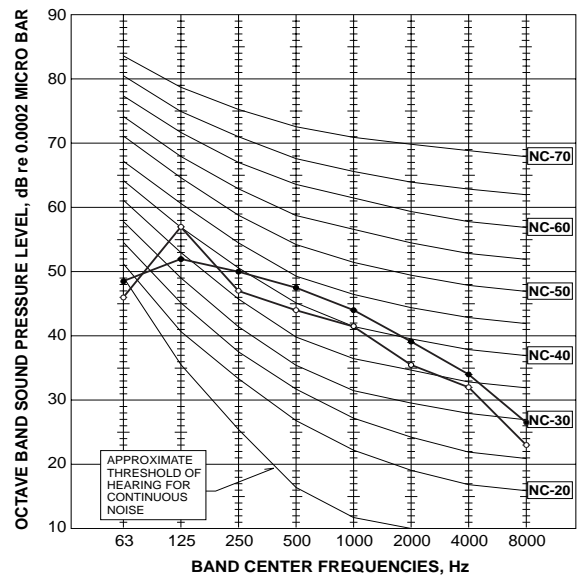
PUH-P1VGAA(1).UK

MODE	SPL(dB)	LINE
COOLING	46	○—○
HEATING	48	●—●



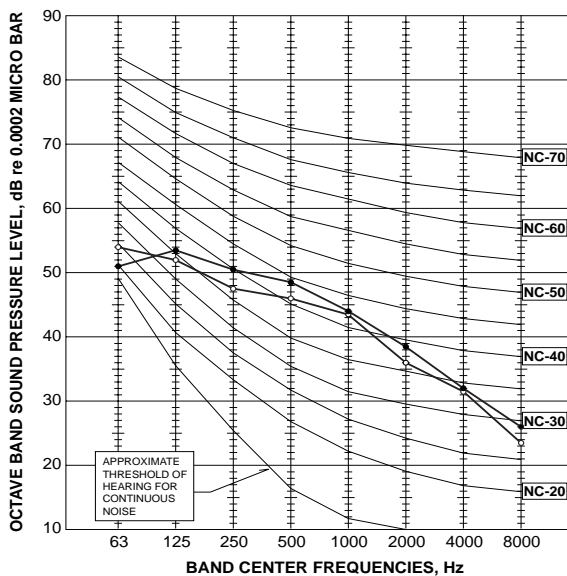
**PUH-P1.6VGAA(1).UK
PUH-P1.6YGAA(1).UK
PU-P1.6VGAA(1).UK
PU-P1.6YGAA(1).UK**

MODE	SPL(dB)	LINE
COOLING	47	○—○
HEATING	49	●—●



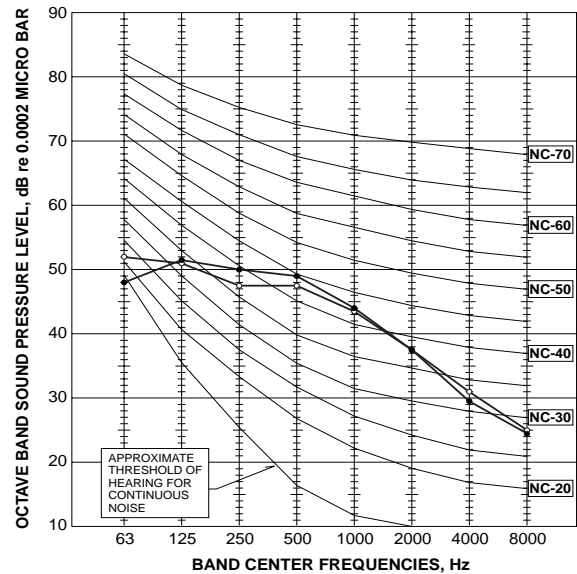
**PUH-P2VGAA(1).UK
PUH-P2YGAA(1).UK
PU-P2VGAA(1).UK
PU-P2YGAA(1).UK**

MODE	SPL(dB)	LINE
COOLING	48	○—○
HEATING	49	●—●



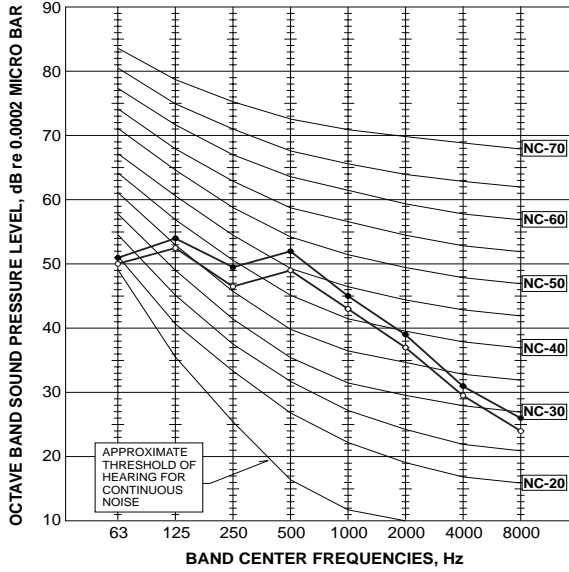
**PUH-P2.5VGAA(1).UK
PUH-P2.5YGAA(1).UK
PU-P2.5VGAA(1).UK
PU-P2.5YGAA(1).UK**

MODE	SPL(dB)	LINE
COOLING	48	○—○
HEATING	50	●—●



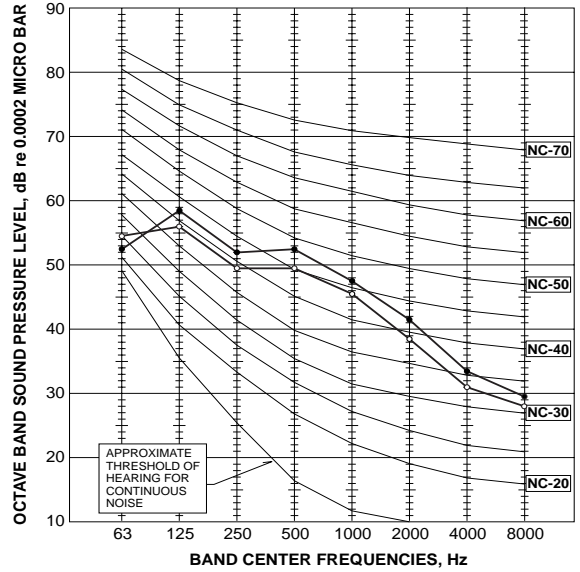
PUH-P3VGAA(1).UK
PUH-P3YGAA(1).UK
PU-P3VGAA(1).UK
PU-P3YGAA(1).UK

MODE	SPL(dB)	LINE
COOLING	49	○—○
HEATING	51	●—●



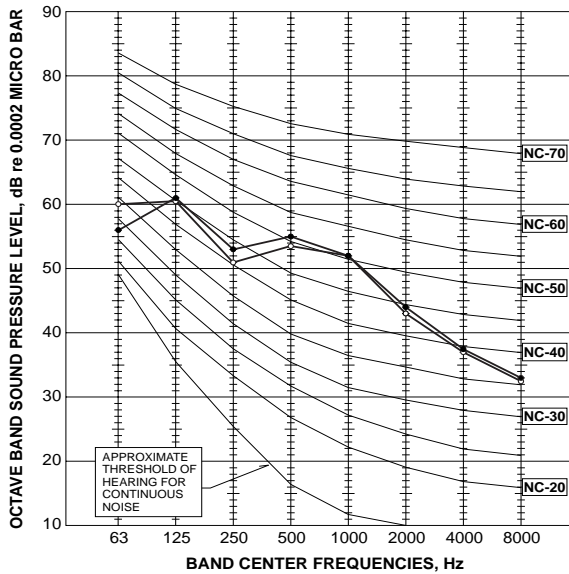
PUH-P4VGAA(1).UK
PUH-P4YGAA(1).UK
PU-P4VGAA(1).UK
PU-P4YGAA(1).UK

MODE	SPL(dB)	LINE
COOLING	51	○—○
HEATING	53	●—●



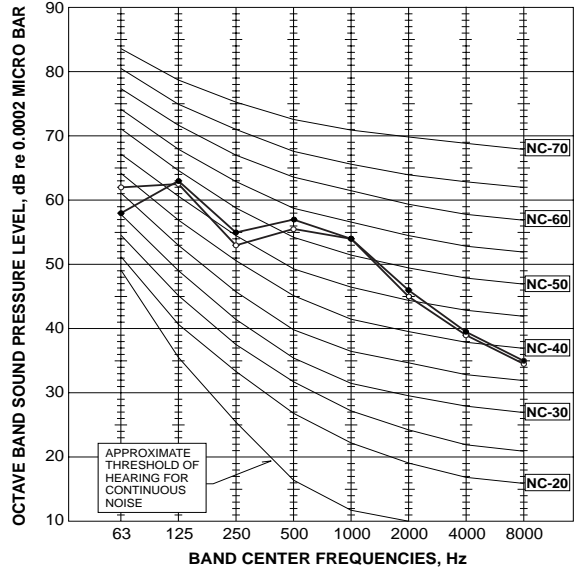
PUH-P5YGAA(1).UK
PU-P5YGAA(1).UK

MODE	SPL(dB)	LINE
COOLING	55	○—○
HEATING	56	●—●



PUH-P6YGAA(1).UK
PU-P6YGAA(1).UK

MODE	SPL(dB)	LINE
COOLING	57	○—○
HEATING	58	●—●



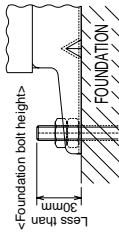
PUH-P1VGAA(1).UK
 PUH-P1.6VGAA(1).UK
 PUH-P1.6YGAA(1).UK
 PU-P1.6VGAA(1).UK
 PU-P1.6YGAA(1).UK

4 PIPING-WIRING DIRECTIONS

Piping and wiring connections can be made from 4 directions: Front, Right, Rear and Below.

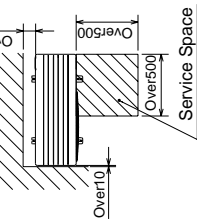
3 FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10) bolts. (Bolts and washers must be purchased locally).



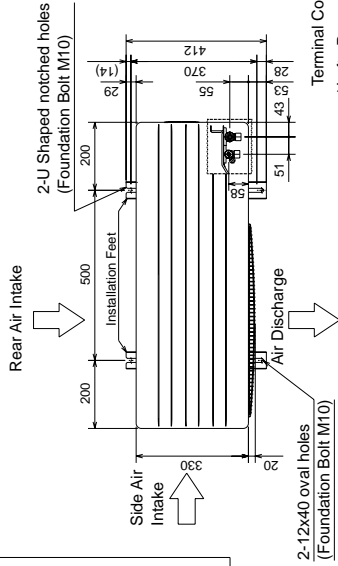
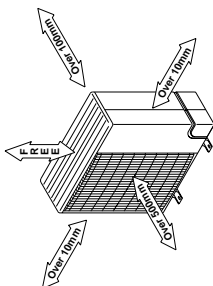
2 SERVICE SPACE

Dimensions of space needed for service access are shown in the below diagram.

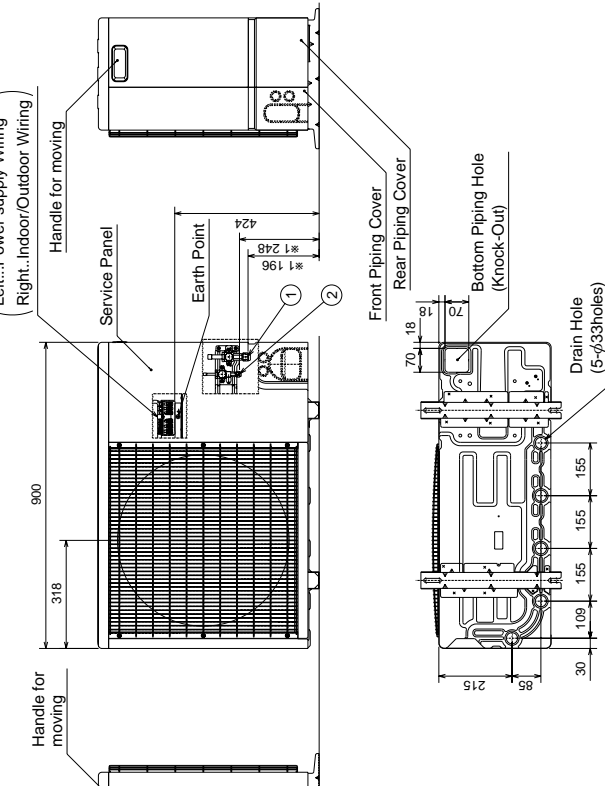


1 FREE SPACE (Around the Unit)

The diagram below shows a basic example. Explanation of particular details are given in the installation manuals etc.



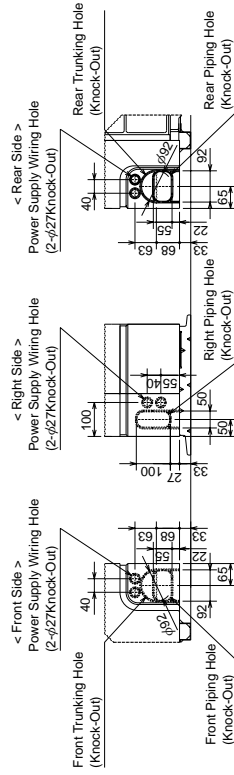
Terminal Connections
 (Left...Power supply Wiring
 Right...Indoor/Outdoor Wiring)



Explanation of Notes

- ① · · · Refrigerant GAS pipe connection (FLARE)P1.6(Y)GAA; φ15.88 (5/8F)
 - ② · · · Refrigerant GAS pipe connection (FLARE)P1VGAA ; φ12.7 (1/2F)
 - ③ · · · Refrigerant LIQUID pipe connection (FLARE)P1.6(Y)GAA; φ9.52 (3/8F)
 - ④ · · · Refrigerant LIQUID pipe connection (FLARE)P1VGAA ; φ6.35 (1/4F)
 - *1 · · · Height of STOP VALVE connection location.
 - ③ · · · 3-φ3.6 holes (for securing the top of the unit)
- These holes are provided for cases where the unit must be secured by the base AND by the top surface.
 Use Self Tapping screws 5 x L15 or less.(Obtained locally)

Piping Knock-Out Hole Details



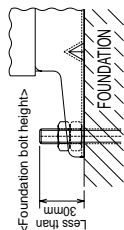
PUH-P2VGAA(1).UK
 PUH-P2YGAA(1).UK
 PUH-P2.5VGAA(1).UK
 PUH-P2.5YGAA(1).UK
 PUH-P3VGAA(1).UK
 PUH-P3YGAA(1).UK
 PU-P2VGAA(1).UK
 PU-P2YGAA(1).UK
 PU-P2.5VGAA(1).UK
 PU-P2.5YGAA(1).UK
 PU-P3VGAA(1).UK
 PU-P3YGAA(1).UK

4 PIPING-WIRING DIRECTIONS

Piping and wiring connections can be made from 4 directions: Front, Right, Rear and Below.

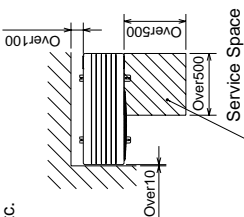
3 FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10) bolts. (Bolts and washers must be purchased locally).



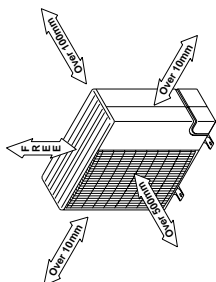
2 SERVICE SPACE

Dimensions of space needed for service access are shown in the below diagram.



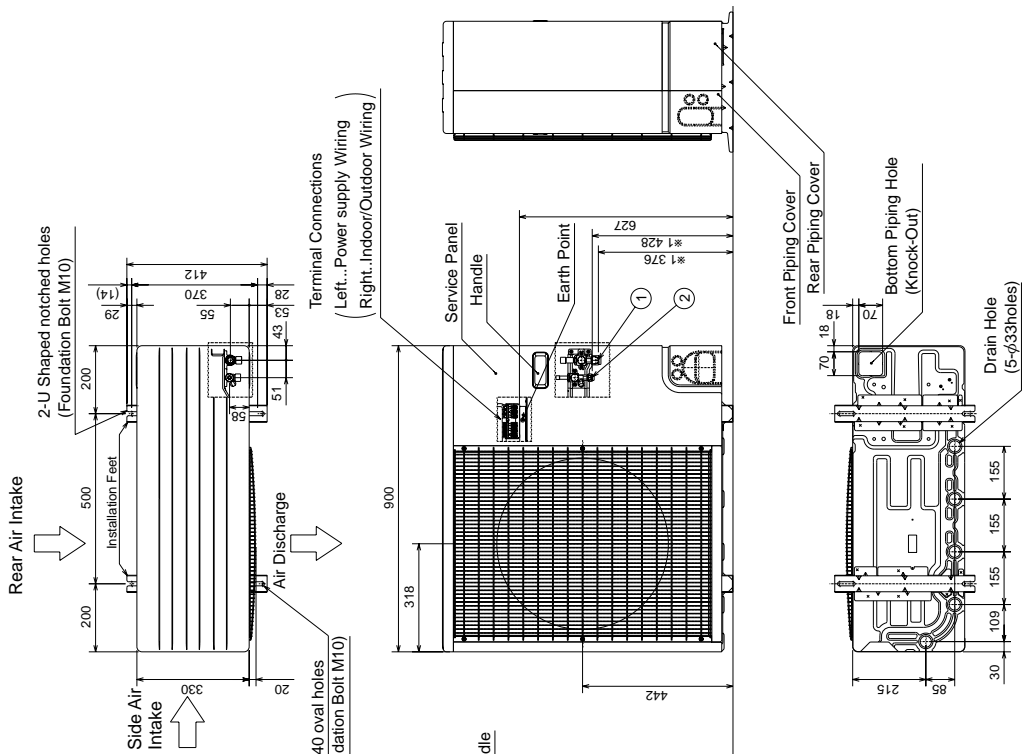
1 FREE SPACE (Around the Unit)

The diagram below shows a basic example. Explanation of particular details are given in the installation manuals etc.

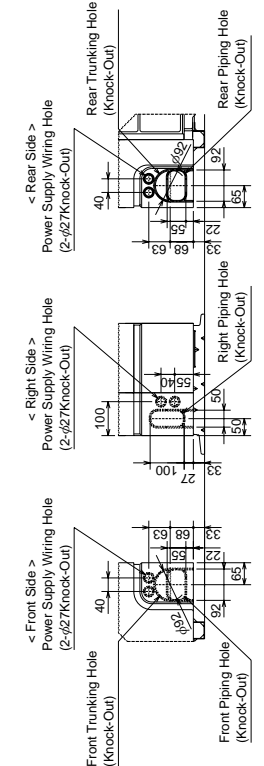


Explanation of Notes

- ① ... Refrigerant GAS pipe connection (FLARE) φ15.88 (5/8F)
 - ② ... Refrigerant LIQUID pipe connection (FLARE) φ9.52 (3/8F)
 - *1 ... Height of STOP VALVE connection location.
 - ③ ... 3-φ3.6 holes (for securing the top of the unit)
- These holes are provided for cases where the unit must be secured by the base AND by the top surface together. Use Self Tapping screws 5 x L15 or less. (Obtained Locally)



Piping Knock-Out Hole Details

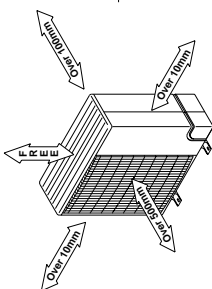


PUH-P4VGAA⁽¹⁾.UK
PUH-P4YGAA⁽¹⁾.UK
PU-P4VGAA⁽¹⁾.UK
PU-P4YGAA⁽¹⁾.UK

Unit : mm

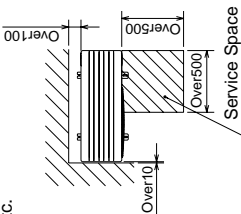
1 | FREE SPACE (Around the Unit)

The diagram below shows a basic example. Explanation of particular details are given in the installation manuals etc.



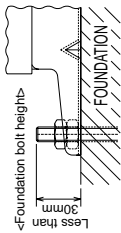
2 | SERVICE SPACE

Dimensions of space needed for service access are shown in the below diagram.



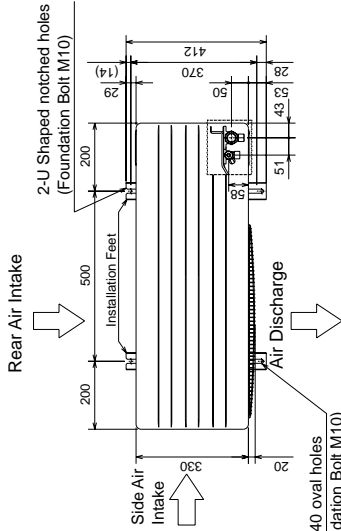
3 | FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10) bolts. (Bolts and washers must be purchased locally).



4 | PIPING-WIRING DIRECTIONS

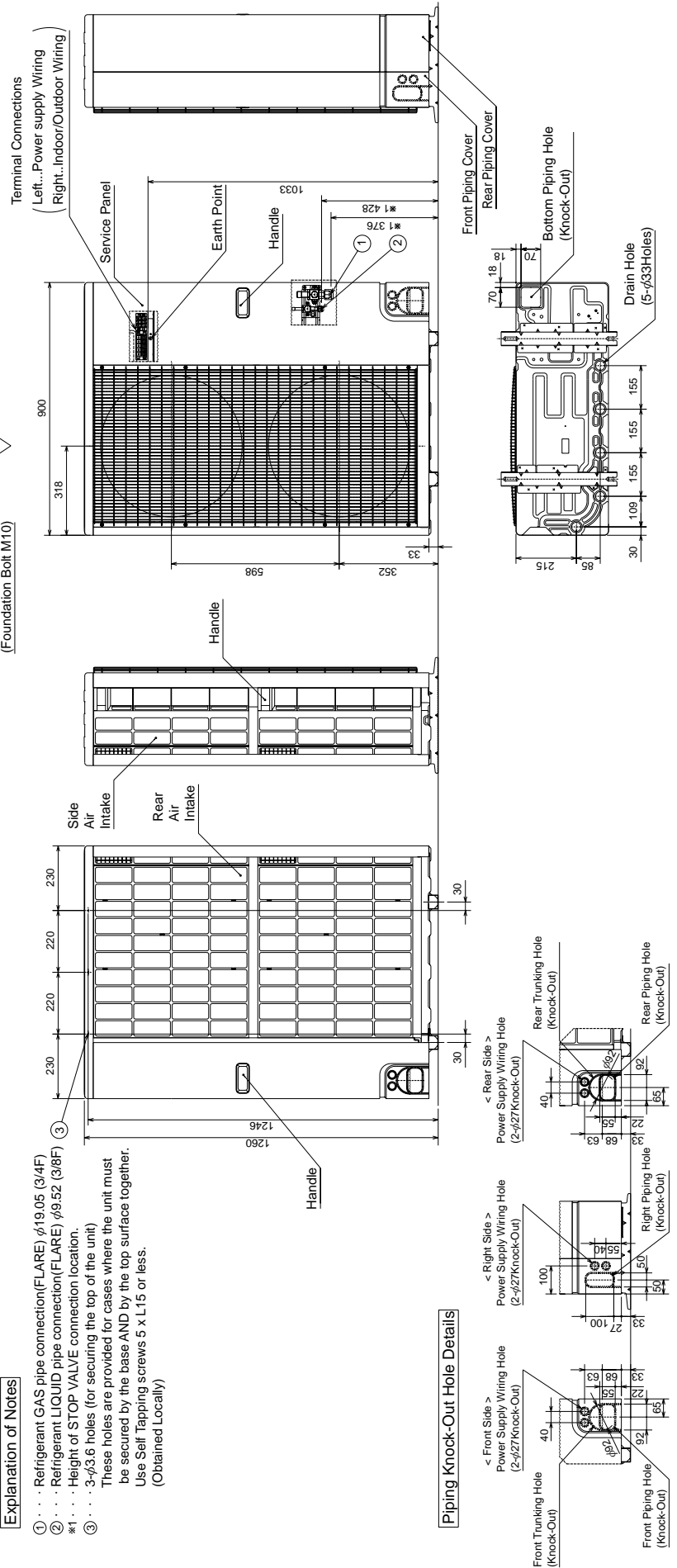
Piping and wiring connections can be made from 4 directions: Front, Right, Rear and Below.



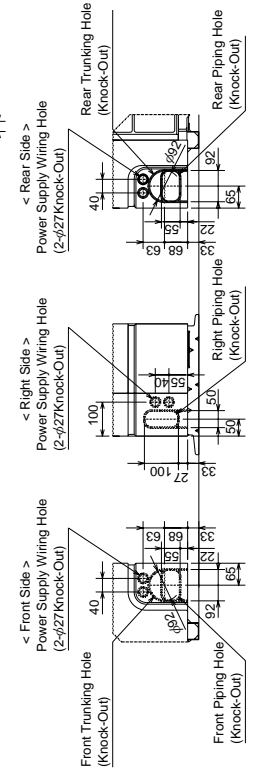
Explanation of Notes

- ① . . . Refrigerant GAS pipe connection (FLARE) $\phi 19.05$ (3/4F)
- ② . . . Refrigerant LIQUID pipe connection (FLARE) $\phi 9.52$ (3/8F) *1
- ③ . . . Height of STOP VALVE connection location.
- ④ . . . 3- $\phi 3.6$ holes (for securing the top of the unit)

These holes are provided for cases where the unit must be secured by the base AND by the top surface together. Use Self Tapping screws 5 x L15 or less. (Obtained Locally)

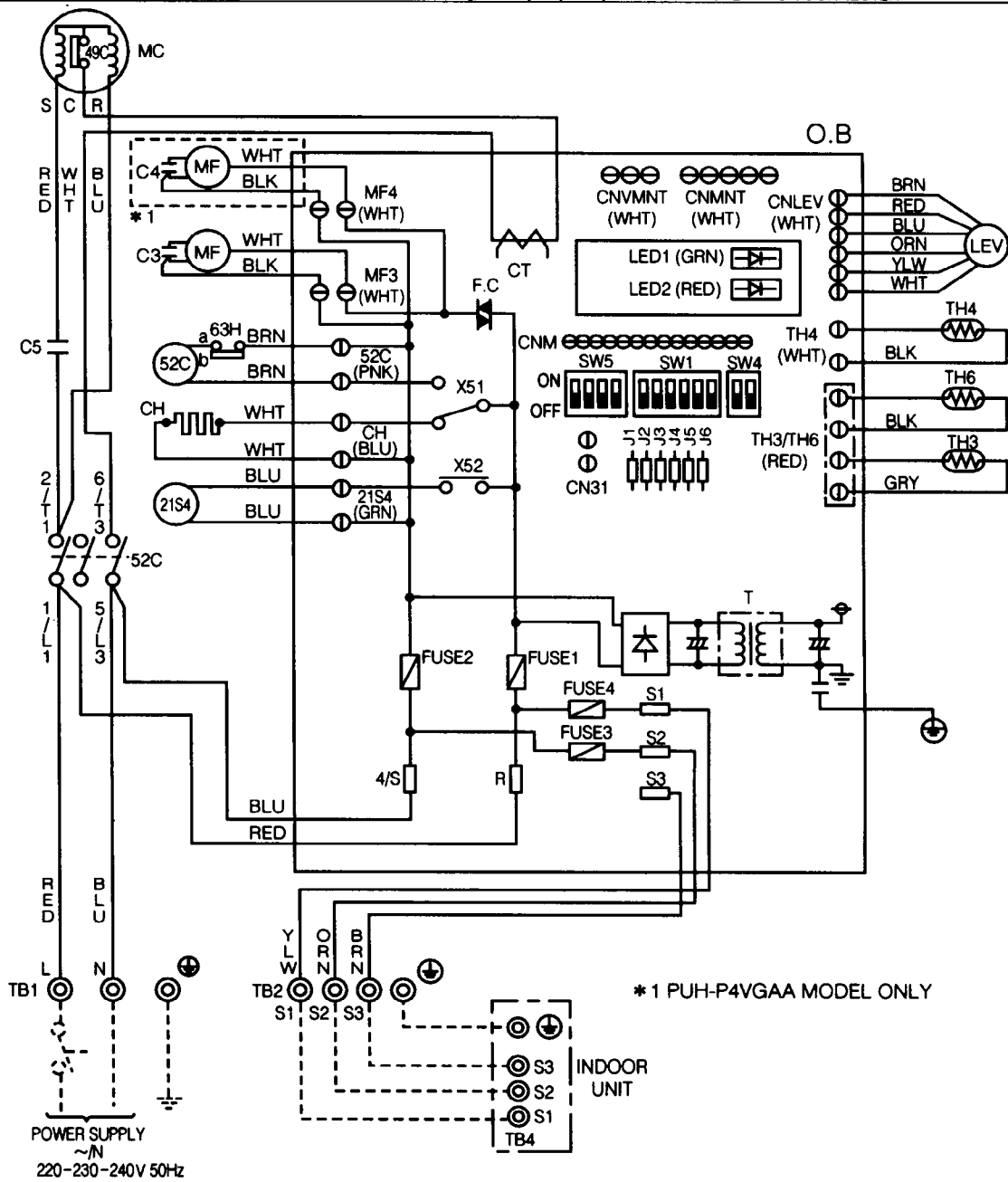


Piping Knock-Out Hole Details



PUH-P1, 1.6, 2, 2.5, 3, 4VGAA.UK
 PUH-P1, 1.6, 2, 2.5, 3, 4VGAA1.UK

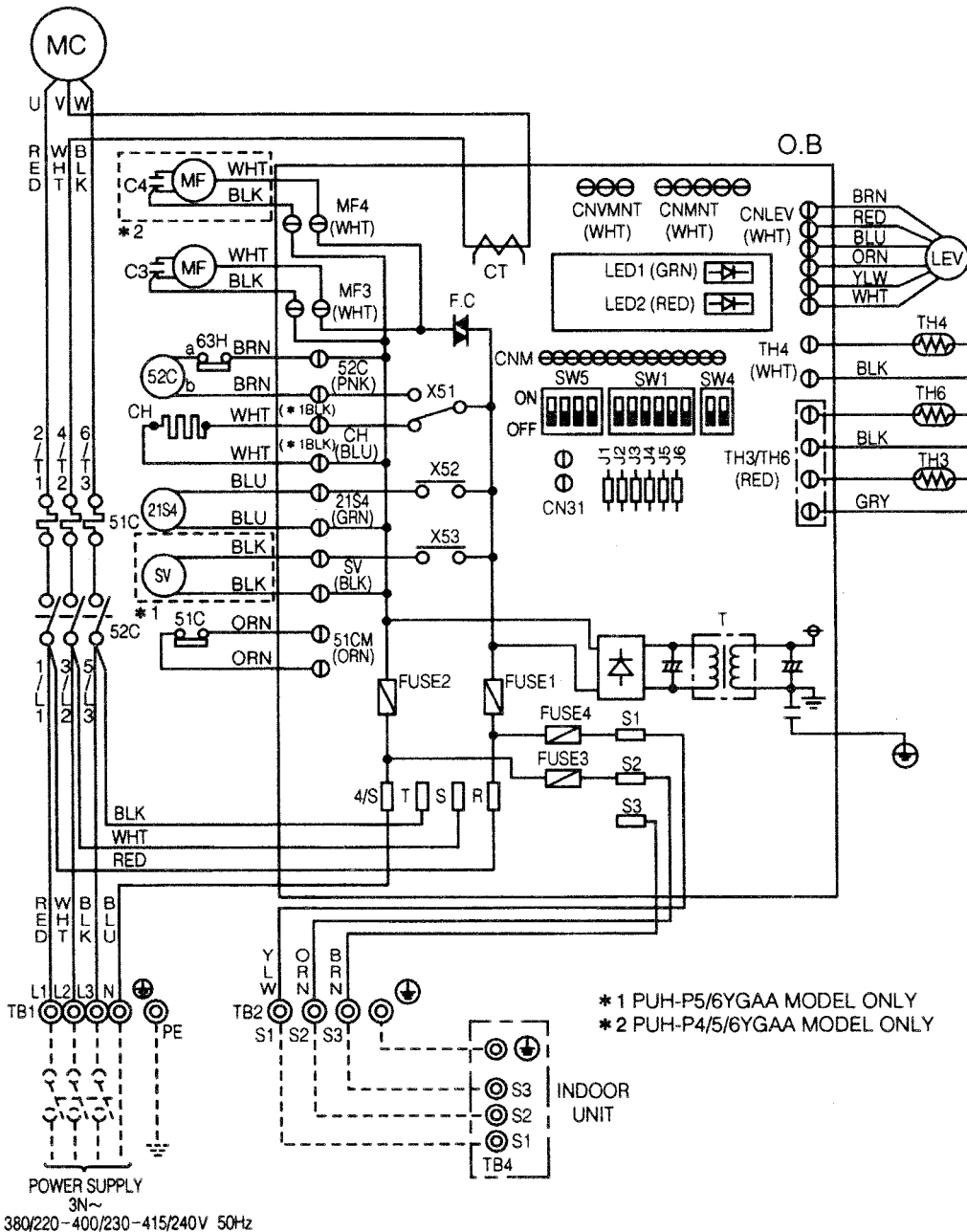
SYMBOL	NAME	SYMBOL	NAME
MC	COMPRESSOR (INNER THERMOSTAT)	O.B	OUTDOOR CONTROLLER BOARD
MF	FAN MOTOR (INNER THERMOSTAT)	FUSE1 (O.B)	FUSE (6.3A)
TH3	THERMISTOR	FUSE2 (O.B)	FUSE (6.3A)
TH4		FUSE3 (O.B)	FUSE (6.3A)
TH6		FUSE4 (O.B)	FUSE (6.3A)
C3	MF CAPACITOR	X51 (O.B)	MC/CH RELAY
C4	MF CAPACITOR	X52 (O.B)	21S4 RELAY
C5	MC CAPACITOR	F.C (O.B)	FAN CONTROLLER
CH	CRANKCASE HEATER	SW1 (O.B)	GROUP NUMBER ADDRESS
52C	MC CONTACTOR	SW4 (O.B)	TEST RUN
21S4	4-WAY VALVE SOLENOID COIL	SW5 (O.B)	FUNCTION SELECTION
63H	HIGH PRESSURE PROTECT SWITCH	J1~J6 (O.B)	MODEL SELECTION
49C	INNER THERMOSTAT FOR MC	T (O.B)	TRANSFORMER
TB1	TERMINAL BLOCK	CT (O.B)	CURRENT TRANS
LEV	LINEAR EXPANSION VALVE	LED1 (O.B)	OPERATION CHECK DISPLAY LED
TB2	TERMINAL BLOCK	LED2 (O.B)	OPERATION CHECK DISPLAY LED
		CN31 (O.B)	EMERGENCY OPERATION CONNECTER



<Notes when servicing>
 Some fastening terminals have a lock mechanism: When removing the fastening terminal, push the projection (locking lever) on the terminal with your finger and pull it out.

PUH-P1.6, 2, 2.5, 3, 4, 5, 6YGAA.UK
PUH-P1.6, 2, 2.5, 3, 4, 5, 6YGAA₁.UK

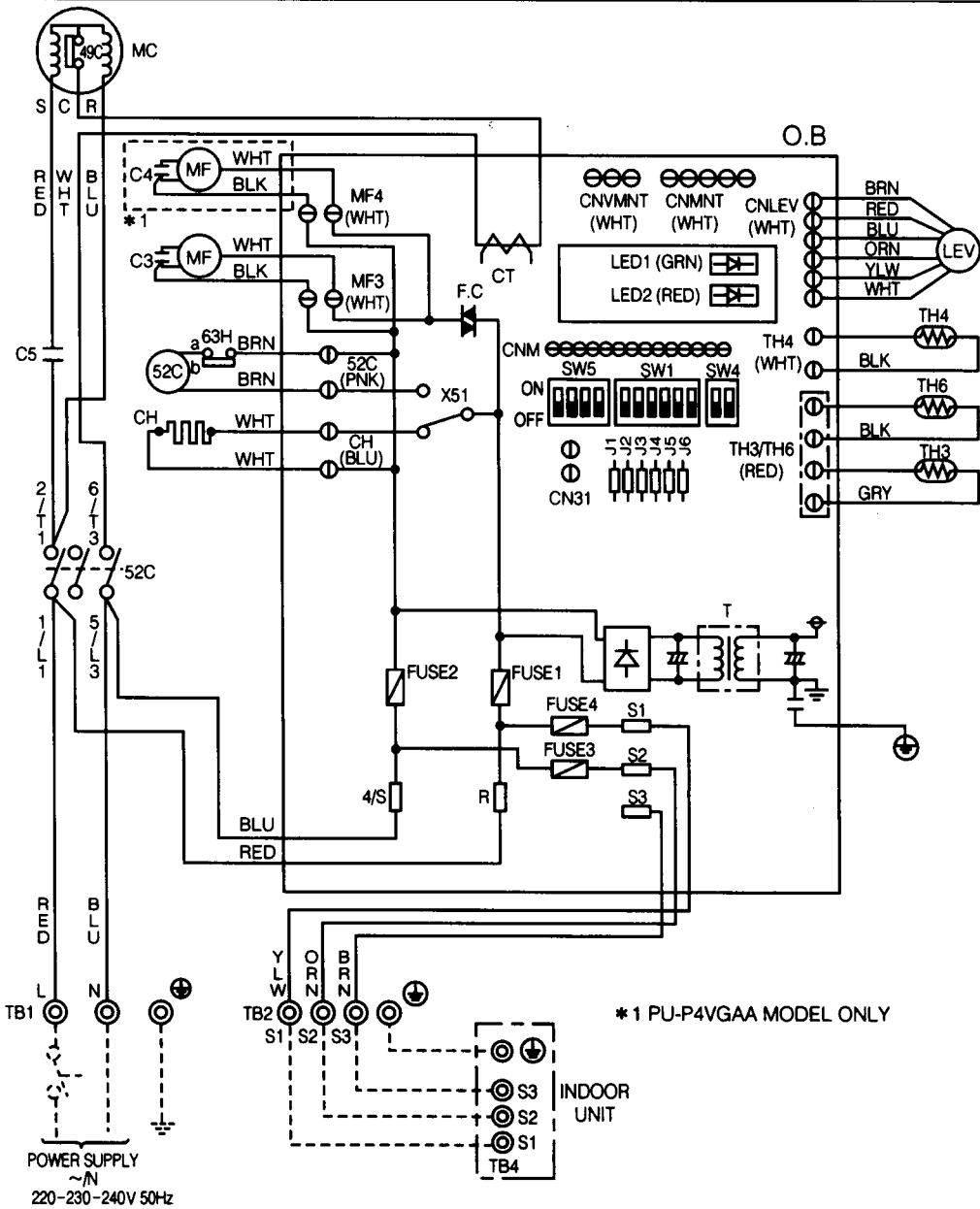
SYMBOL	NAME	SYMBOL	NAME
MC	COMPRESSOR	O.B	OUTDOOR CONTROLLER BOARD
MF	FAN MOTOR (INNER THERMOSTAT)	FUSE1 (O.B)	FUSE (6.3A)
TH3	THERMISTOR	FUSE2 (O.B)	FUSE (6.3A)
TH4		FUSE3 (O.B)	FUSE (6.3A)
TH6		FUSE4 (O.B)	FUSE (6.3A)
C3	MF CAPACITOR	X51 (O.B)	MC/CH RELAY
C4	MF CAPACITOR	X52 (O.B)	21S4 RELAY
CH	CRANKCASE HEATER	X53 (O.B)	SV RELAY
52C	MC CONTACTOR	F.C (O.B)	FAN CONTROLLER
21S4	4-WAY VALVE SOLENOID COIL	SW1 (O.B)	GROUP NUMBER ADDRESS
SV	BYPASS VALVE SOLENOID COIL	SW4 (O.B)	TEST RUN
63H	HIGH PRESSURE PROTECT SWITCH	SW5 (O.B)	FUNCTION SELECTION
51C	THERMAL RELAY	J1~J6 (O.B)	MODEL SELECTION
TB1	TERMINAL BLOCK	T (O.B)	TRANSFORMER
LEV	LINEAR EXPANSION VALVE	CT (O.B)	CURRENT TRANS
TB2	TERMINAL BLOCK	LED1 (O.B)	OPERATION CHECK DISPLAY LED
		LED2 (O.B)	OPERATION CHECK DISPLAY LED
		CN31 (O.B)	EMERGENCY OPERATION CONNECTER



<Notes when servicing>
 Some fastening terminals have a lock mechanism: When removing the fastening terminal, push the projection (locking lever) on the terminal with your finger and pull it out.

PU-P1.6, 2, 2.5, 3, 4VGAA.UK
 PU-P1.6, 2, 2.5, 3, 4VGAA₁.UK

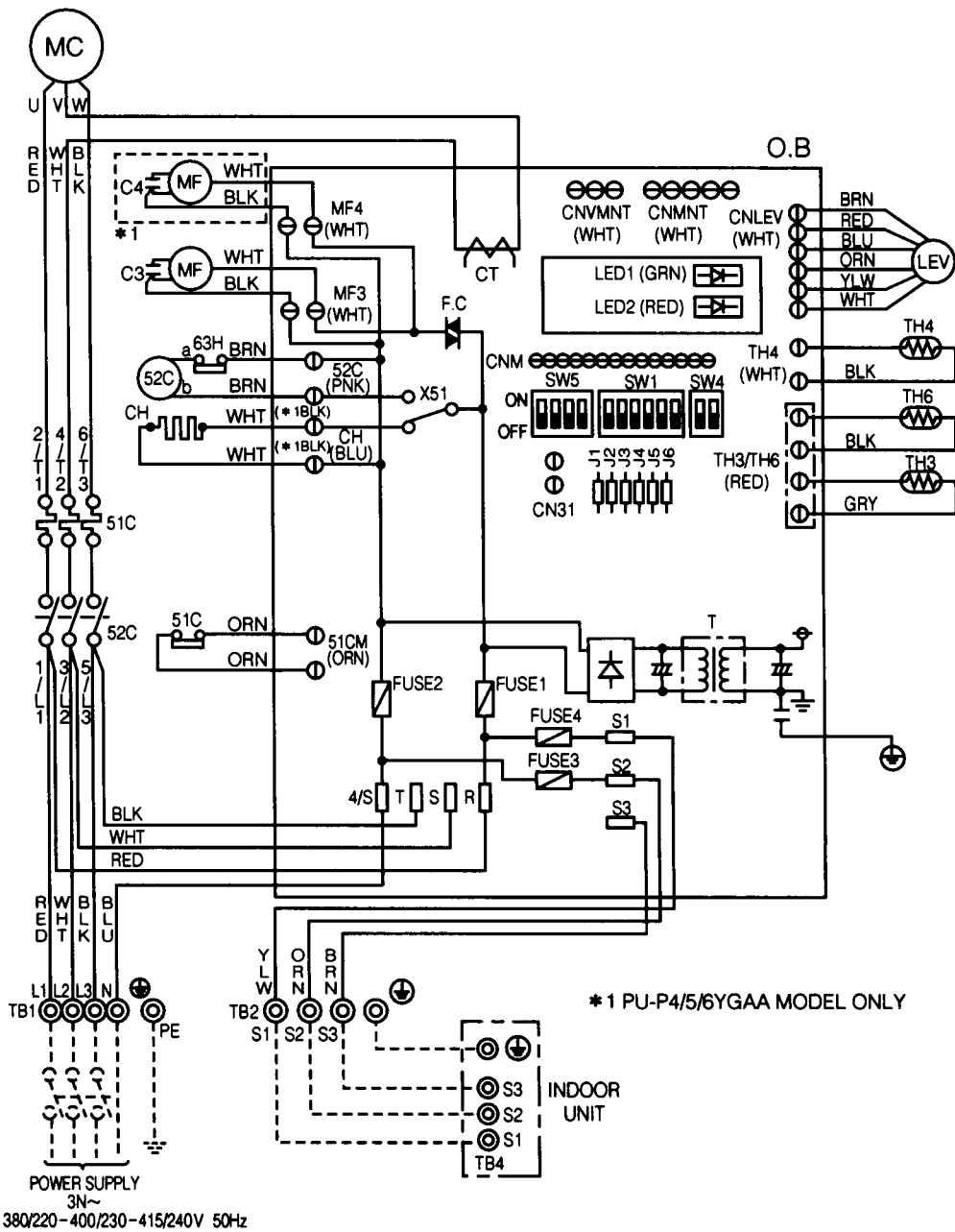
SYMBOL	NAME	SYMBOL	NAME
MC	COMPRESSOR (INNER THERMOSTAT)	O.B	OUTDOOR CONTROLLER BOARD
MF	FAN MOTOR (INNER THERMOSTAT)	FUSE1 (O.B)	FUSE (6.3A)
TH3	THERMISTOR	FUSE2 (O.B)	FUSE (6.3A)
TH4	LIQUID TEMPERATUER	FUSE3 (O.B)	FUSE (6.3A)
TH6	DISCHARGE TEMPERATUER	FUSE4 (O.B)	FUSE (6.3A)
C3	COND. TEMPERATUER	X51 (O.B)	MC/CH RELAY
C4	MF CAPACITOR	F.C (O.B)	FAN CONTROLLER
C5	MF CAPACITOR	SW1 (O.B)	GROUP NUMBER ADDRESS
CH	CRANKCASE HEATER	SW4 (O.B)	TEST RUN
52C	MC CONTACTOR	SW5 (O.B)	FUNCTION SELECTION
63H	HIGH PRESSURE PROTECT SWITCH	J1~J6 (O.B)	MODEL SELECTION
49C	INNER THERMOSTAT FOR MC	T (O.B)	TRANSFORMER
TB1	TERMINAL BLOCK	CT (O.B)	CURRENT TRANS
LEV	LINEAR EXPANSION VALVE	LED1 (O.B)	OPERATION CHECK DISPLAY LED
TB2	TERMINAL BLOCK	LED2 (O.B)	OPERATION CHECK DISPLAY LED
		CN31 (O.B)	EMERGENCY OPERATION CONNECTER



<Notes when servicing>
 Some fastening terminals have a lock mechanism: When removing the fastening terminal, push the projection (locking lever) on the terminal with your finger and pull it out.

PU-P1.6, 2, 2.5, 3, 4, 5, 6YGAA.UK
 PU-P1.6, 2, 2.5, 3, 4, 5, 6YGAA1.UK

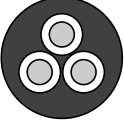


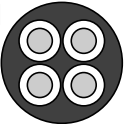
SYMBOL	NAME	SYMBOL	NAME
MC	COMPRESSOR	O.B	OUTDOOR CONTROLLER BOARD
MF	FAN MOTOR (INNER THERMOSTAT)	FUSE1 (O.B)	FUSE (6.3A)
TH3	THERMISTOR	FUSE2 (O.B)	FUSE (6.3A)
TH4	LIQUID TEMPERATURE	FUSE3 (O.B)	FUSE (6.3A)
TH6	DISCHARGE TEMPERATURE	FUSE4 (O.B)	FUSE (6.3A)
C3	COND. TEMPERATURE	X51 (O.B)	MC/CH RELAY
C4	MF CAPACITOR	F.C (O.B)	FAN CONTROLLER
CH	CRANKCASE HEATER	SW1 (O.B)	GROUP NUMBER ADDRESS
52C	MC CONTACTOR	SW4 (O.B)	TEST RUN
63H	HIGH PRESSURE PROTECT SWITCH	SW5 (O.B)	FUNCTION SELECTION
51C	THERMAL RELAY	J1~J6 (O.B)	MODEL SELECTION
TB1	TERMINAL BLOCK	T (O.B)	TRANSFORMER
LEV	LINEAR EXPANSION VALVE	CT (O.B)	CURRENT TRANS
TB2	TERMINAL BLOCK	LED1 (O.B)	OPERATION CHECK DISPLAY LED
		LED2 (O.B)	OPERATION CHECK DISPLAY LED
		CN31 (O.B)	EMERGENCY OPERATION CONNECTER



<Notes when servicing>
 Some fastening terminals have a lock mechanism: When removing the fastening terminal, push the projection (locking lever) on the terminal with your finger and pull it out.

**WIRING SPECIFICATIONS FOR 220~240V 50Hz
(INDOOR-OUTDOOR CONNECTING CABLE)**

 PU(H)-P1VGAA₍₁₎.UK~P6YGAA₍₁₎.UK
(Except PUH-8YE,PUH-10YE)

Cross section of cable	Wire size (mm ²)	Number of wires	Polarity	L(m) *6
Round 	2.5	3	Clockwise : S1-S2-S3 * Pay attention to stripe of yellow and green	(50) *2
Flat 	2.5	3	Not applicable (Because center wire has no cover finish)	Not applicable *5
Flat 	1.5	4	From left to right : S1-Open-S2-S3	(45) *3
Round 	2.5	4	Clockwise : S1-S2-S3-Open * Connect S1 and S3 to the opposite angle	60 *4

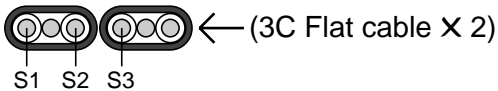
*1 : Power supply cords of appliances shall not be lighter than design 245 IEC or 227 IEC.

*2 : In case that cable with stripe of yellow and green is available.

*3 : In case of regular polarity connection (S1-S2-S3), wire size is 1.5mm².

*4 : In case of regular polarity connection (S1-S2-S3).

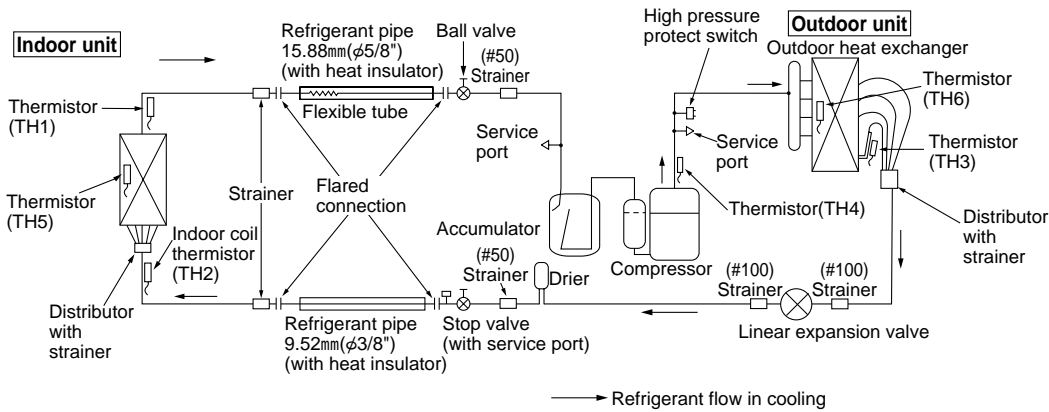
*5 : In the flat cables are connected as this picture, they can be used up to 80m.



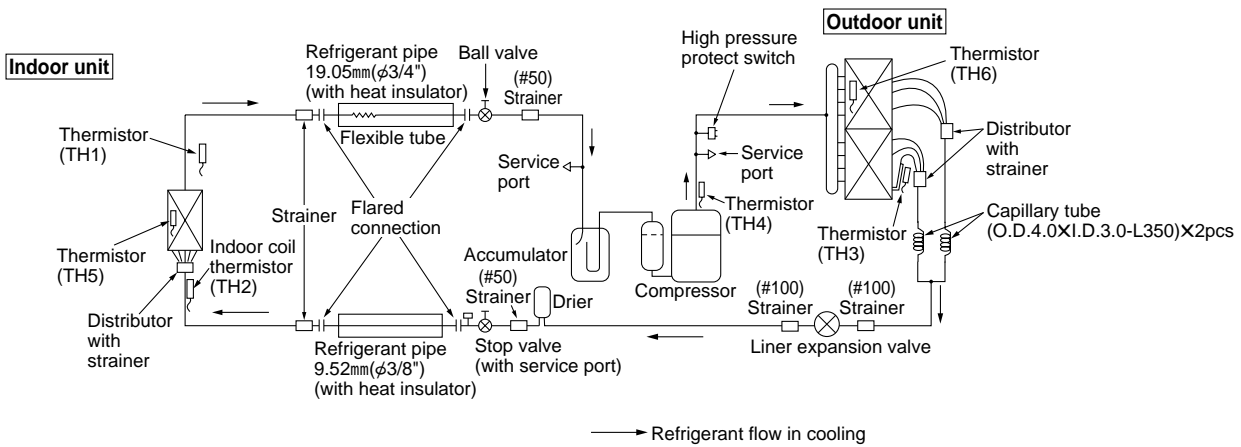
*6 : Mentioned cable length is just a reference value.

It may be different depending on the condition of installation, Humidity or materials, etc.

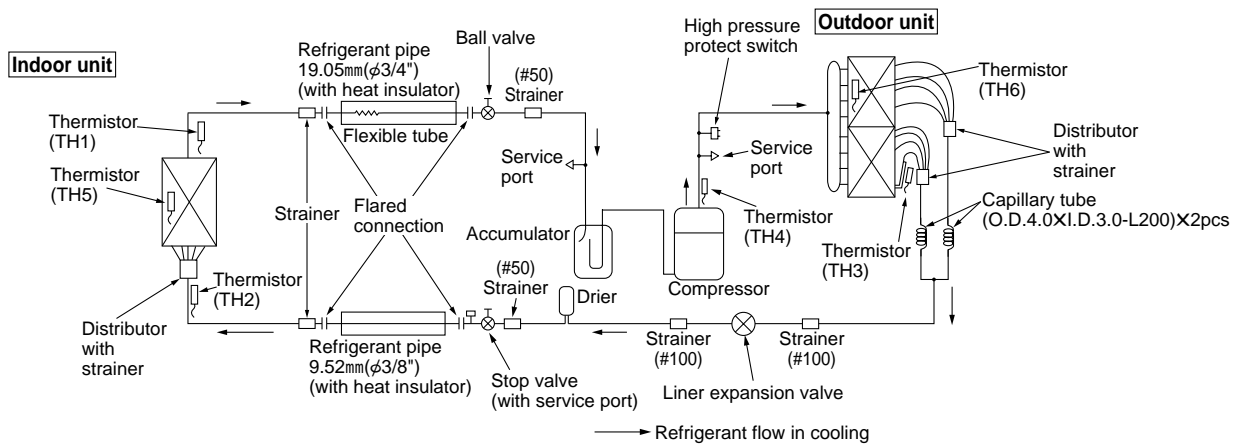
PU-P1.6, 2, 2.5, 3VGAA.UK
PU-P1.6, 2, 2.5, 3YGAA.UK



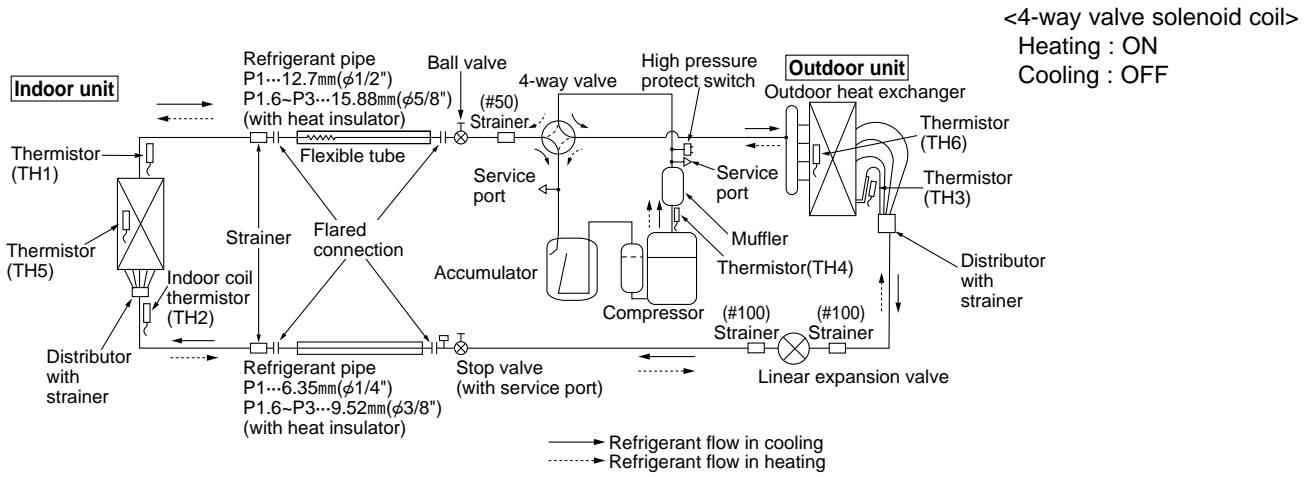
PU-P4VGAA.UK
PU-P4YGAA.UK



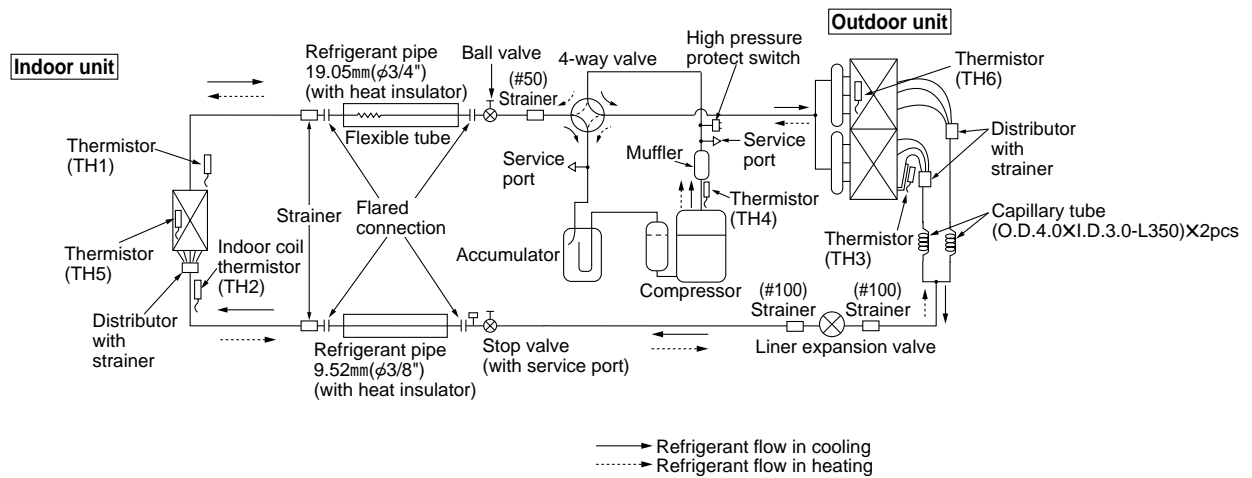
PU-P5YGAA.UK **PU-P6YGAA.UK**
PU-P5YGAA₁.UK **PU-P6YGAA₁.UK**



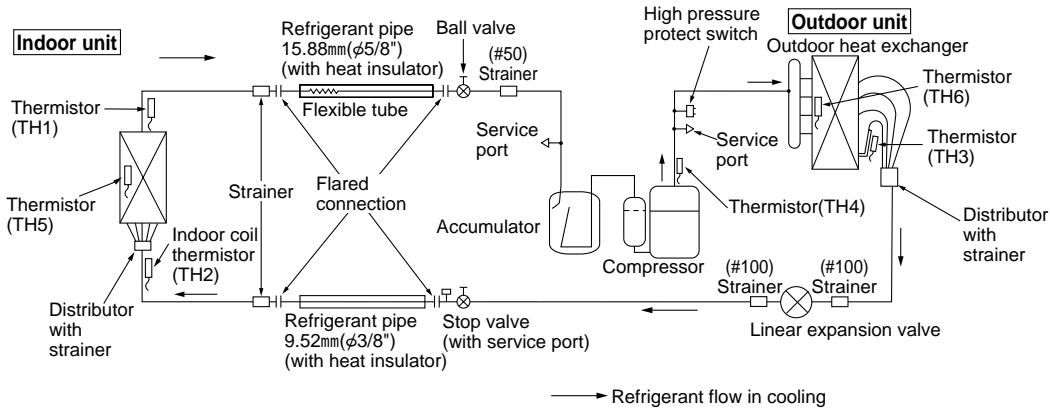
PUH-P1, 1.6, 2, 2.5, 3VGAA₁.UK
PUH-P1.6, 2, 2.5, 3YGAA₁.UK



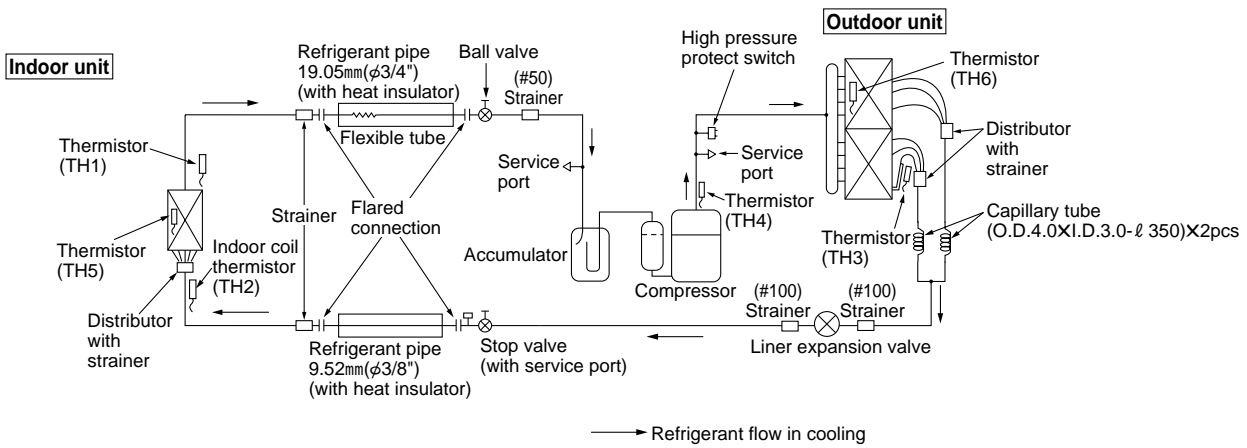
PUH-P4VGAA₁.UK
PUH-P4YGAA₁.UK



PU-P1.6, 2, 2.5, 3VGAA1.UK
PU-P1.6, 2, 2.5, 3YGAA1.UK

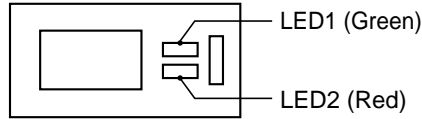


PU-P4VGAA1.UK
PU-P4YGAA1.UK



1. SELF-DIAGNOSTIC FUNCTION

- The blinking patterns of two LEDs—LED1(Green) and LED2(Red)—show the diagnoses of troubles in case of malfunction.
- By 7SEG indicator board indicates the operation mode and inspection types. For the details, refer to “OCT03 REVISED EDITION-C”.



Indication (O.B)		Error Name	Inspection method
LED1 (Green)	LED2 (Red)		
1 blink	1 blink	<ul style="list-style-type: none"> •Negative Phase detection •The wires of power supply and connecting wires of indoor / outdoor units are crossed with one another. 	<ol style="list-style-type: none"> ① Check if the wires of power supply are connected to their corresponding terminals on TB1. ② Check if the wirings are correct on power supply (TB1) and outdoor power supply board (TB2).
	2 blinks	<ul style="list-style-type: none"> •51CM connector open 	<ol style="list-style-type: none"> ① Check if the connectors of 51CM (51C) on outdoor controller board are disconnected. ② Check the continuity of connector 51CM (51C) by using a tester.
2 blinks	1 blink	<ul style="list-style-type: none"> •Indoor / outdoor unit connector mis-wiring •Excessive numbers of indoor units per an outdoor unit (five or more) •Mis-wiring of indoor / outdoor unit connection wires (crossed wiring or disconnection) •Start-up time is up 	<ol style="list-style-type: none"> ① Check if the wirings are correct on the connecting wires of indoor / outdoor units. ② Check if a single outdoor unit connects five or more indoor units.
	2 blinks	<ul style="list-style-type: none"> •Indoor / outdoor unit transmission error (Signal receiving error: Indoor controller side) •Indoor / outdoor unit transmission error (Transmitting error: Indoor controller side) •Indoor / outdoor unit transmission error (Signal receiving error :Outdoor controller side) •Indoor / outdoor unit transmission error (Transmitting error: Outdoor controller side) 	<ol style="list-style-type: none"> ① Check if the wirings are correct on the connecting wires of indoor / outdoor units. ② Check if there is noise on the wires of power supply and connecting wires of indoor / outdoor units. ③ Check if there is noise on both indoor and outdoor controller board. ④ Turn the power off and let the units operate again to confirm.
	3 blinks	<ul style="list-style-type: none"> •Remote controller transmission error (Signal receiving error: Remote controller side) •Remote controller transmission error (Transmitting error: Remote controller side) •Remote controller transmission error (Signal receiving error: Indoor controller side) •Remote controller transmission error (Transmitting error: Indoor controller side) 	<ol style="list-style-type: none"> ① Check if the wirings are correct on indoor units or remote controllers. ② Check if there is noise on the transmission lines of remote controllers. ③ Turn the power off and let the units operate again to confirm.
	4 blinks	<ul style="list-style-type: none"> •Undefined error code 	<ol style="list-style-type: none"> ① Check if there is noise on the transmission lines of remote controllers. ② Check if there is noise on the connecting wires of indoor/outdoor units. ③ Turn the power off and let the units operate again to confirm.

To be continued on the next page.

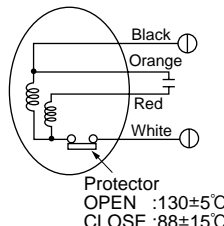
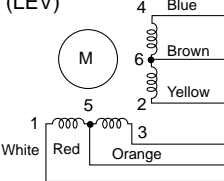
From the preceding page.

Indication (O.B)		Error Name	Inspection method
LED1 (Green)	LED2 (Red)		
3 blinks	1 blink	•Abnormal high discharge temperature(TH4)	① Check if ball valves are open. ② Check the continuity of connector (TH4) on outdoor controller board by using a tester. ③ Check if the unit fills the refrigerant at the same amount as specified.
	2 blinks	•Abnormal high pressure (High-pressure switch 63H has been tripped)	① Check if indoor / outdoor units have a short cycle on their air ducts. ② Check if the connector of 52C (63H) on outdoor controller board is disconnected. ③ Check if the units get their heat exchanger and filter dirty and clogged. ④ Measure resistance values among terminals on linear expansion valve by using a tester.
	3 blinks	•Protection from overheat operation (TH3)	① Check if outdoor unit has a short cycle on its air duct. ② Check if the connector of TH3 on outdoor controller board is disconnected.
	4 blinks	•Compressor's overcurrent (Overload) •Thermal relay (51C) has been tripped •Overcurrent has locked the operation of compressor in start-up.	① Check if ball valves are open. ② Measure resistance values among terminals on compressor by using a tester. ③ Check if outdoor unit has a short cycle on its air duct. ④ Check if the connector of 51CM (51C) on outdoor controller board is disconnected. ⑤ Check if the units get their heat exchanger and filter dirty and clogged.
	5 blinks	•Open / short circuit of discharge thermistor (TH4) •Open / short circuit of liquid pipe thermistor (TH3) •Open / short circuit of EVA / COND pipe thermistor (TH5)	① Check if the connectors of TH4, TH3, and TH6 on outdoor controller board are disconnected. ② Measure the resistance values of each thermistor (TH4, TH3, and TH6).
4 blinks	1 blinks	•Abnormality of room temperature thermistor (Indoor unit side: TH1) •Abnormality of Liquid pipe thermistor (Indoor unit side:TH2) •Abnormality of EVA / COND pipe thermistor (Indoor unit side: TH5)	① Check if the connectors of CN20, CN21, and CN29 on outdoor controller board are disconnected. ② Measure the resistance values of each thermistor (TH1, TH2, and TH5).
	2 blinks	•Abnormality of drain sensor (Indoor unit side : (DS)) •Malfunction of drain-up machine	① Check if the connector of CN31 on outdoor controller board is disconnected. ② Measure the resistance value of drain sensor. ③ Measure resistance values among terminals on drain-up machine by using a tester.
	3 blinks	•Abnormality of pipe temperature	① Check if the connectors of CN20, CN21, and CN29 on outdoor controller board are disconnected. ② Check if ball valves are open. ③ Check if the wirings are correct on the connecting wires of indoor / outdoor units.

2. HOW TO CHECK THE PARTS

PUH-P1, 1.6, 2, 2.5, 3, 4VGAA₍₁₎.UK
PU-P1.6, 2, 2.5, 3, 4VGAA₍₁₎.UK

PUH-P1.6, 2, 2.5, 3, 4, 5, 6YGAA₍₁₎.UK
PU-P1.6, 2, 2.5, 3, 4, 5, 6YGAA₍₁₎.UK

Parts name	Check points				
Liquid temperature thermistor (TH3) Discharge temperature thermistor (TH4) Condenser/evaporator temperature thermistor (TH6)	Disconnect the connector then measure the resistance using a tester. (Surrounding temperature 10°C~30°C)				
		Normal	Abnormal		
	TH3	160kΩ~410kΩ	Open or short (Refer to the next page for a detail.)		
	TH4	4.3kΩ~9.6kΩ			
	TH6	4.3kΩ~9.6kΩ			
FAN MOTOR(MF) 	Measure the resistance between the terminals using a tester. (Surrounding temperature 20°C)				
	Motor lead wire	Normal	Abnormal		
	White — Black	57.4Ω ±10%	Open or short		
	White — Red	99.7Ω ±10%			
Linear expansion valve (LEV) 	Disconnect the connector then measure the resistance using a tester. (Surrounding temperature 20°C)				
	Normal			Abnormal	
	(1) - (5) White - Red	(2) - (6) Yellow - Brown	(3) - (5) Orange - Red	(4) - (6) Blue - Brown	Open or short
	150Ω ±10%				
4-WAY VALVE SOLENOID COIL (21S4)	Measure the resistance between the terminals using a tester. (Surrounding temperature 20°C)				
	Normal		Abnormal		
	1430Ω		Open or short		
BYPASS VALVE SOLENOID COIL (21R) PUH-P5/6YGAA.UK only	Measure the resistance between the terminals using a tester. (Surrounding temperature 20°C)				
	Normal		Abnormal		
	P5, P6		Open or short		
	1970Ω				
CRANKCASE HEATER (HC)	Measure the resistance between the terminals using a tester.				
	Normal		Abnormal		
	P1, P1.6	P2~P6	Open or short		
	1920Ω ±7%	1516Ω ±7%			

<Thermistor characteristic graph>

Thermistor for lower temperature

Liquid temperature thermistor(TH3)
Condenser/evaporator temperature thermistor(TH6)

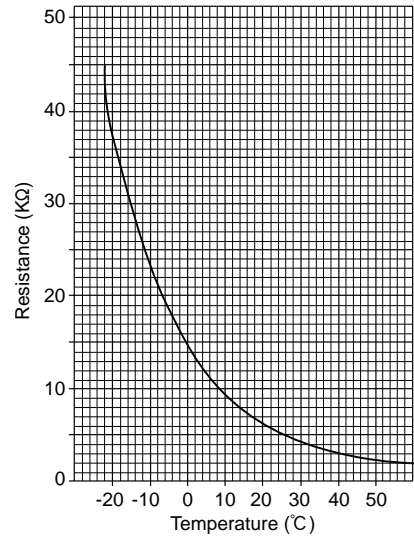
Thermistor $R_0=15k\Omega \pm 3\%$

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

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

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

< Thermistor for lower temperature >



Thermistor for higher temperature

Discharge temperature thermistor(TH4)

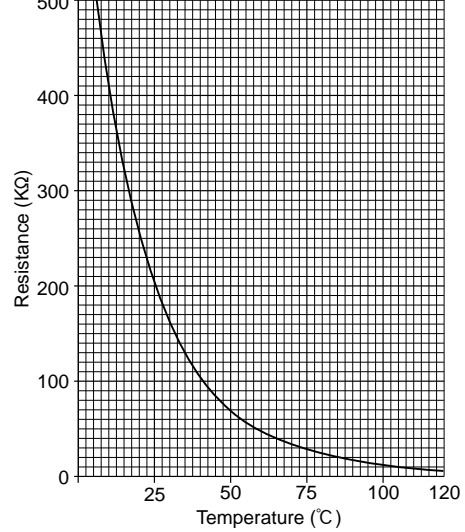
Thermistor $R_{120}=7.465k\Omega \pm 2\%$

Fixed number of $B=4057k\Omega \pm 2\%$

$$R_t = 7.465 \exp \left\{ 4057 \left(\frac{1}{273+t} - \frac{1}{393} \right) \right\}$$

20°C	250kΩ
30°C	160kΩ
40°C	104kΩ
50°C	70kΩ
60°C	48kΩ
70°C	34kΩ
80°C	24kΩ
90°C	17.5kΩ
100°C	13.0kΩ
110°C	9.8kΩ

< Thermistor for higher temperature >

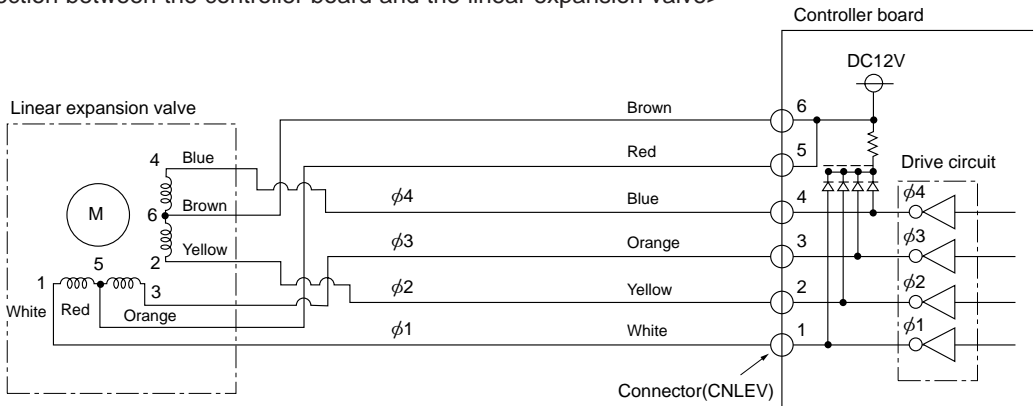


Linear expansion valve

① Operation summary of the linear expansion valve.

- Linear expansion valve open/close through stepping motor after receiving the pulse signal from the controller board.
- Valve position can be changed in proportion to the number of pulse signal.

<Connection between the controller board and the linear expansion valve>



<Output pulse signal and the valve operation>

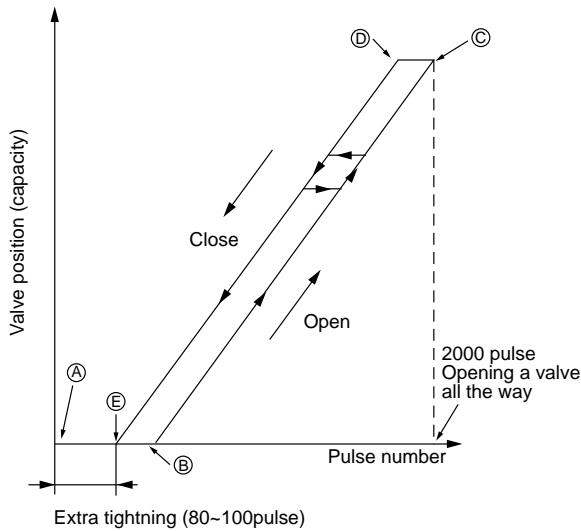
Output (Phase)	Output			
	1	2	3	4
$\phi 1$	ON	OFF	OFF	ON
$\phi 2$	ON	ON	OFF	OFF
$\phi 3$	OFF	ON	ON	OFF
$\phi 4$	OFF	OFF	ON	ON

Closing a valve : 1 → 2 → 3 → 4 → 1
 Opening a valve : 4 → 3 → 2 → 1 → 4

The output pulse shifts in above order.

- * 1. When linear expansion valve operation stops, all output phase become OFF.
- 2. At phase interruption or when phase does not shift in order, motor does not rotate smoothly and motor will locks and vibrates.

② Linear expansion valve operation

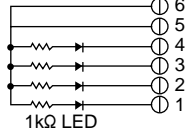


- * When the switch is turned on, 2200 pulse closing valve signal will be send till it goes to ① point in order to define the valve position.

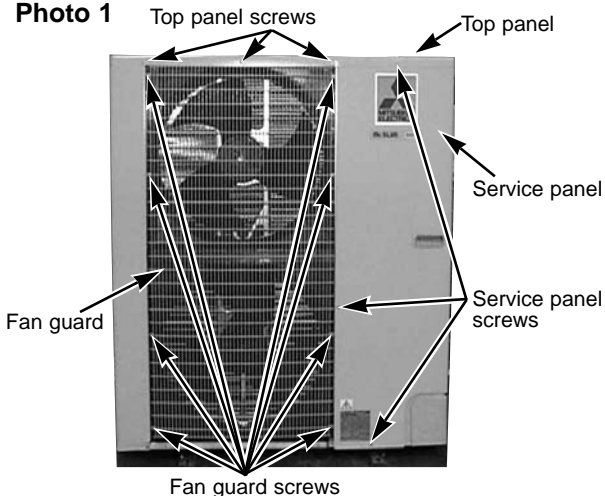
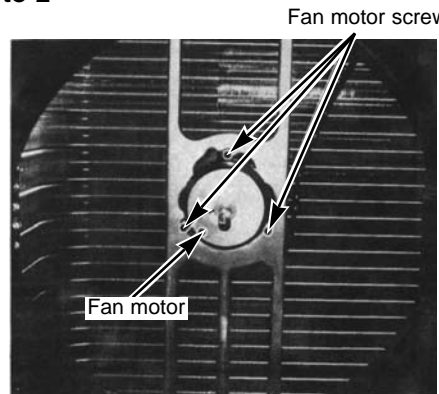
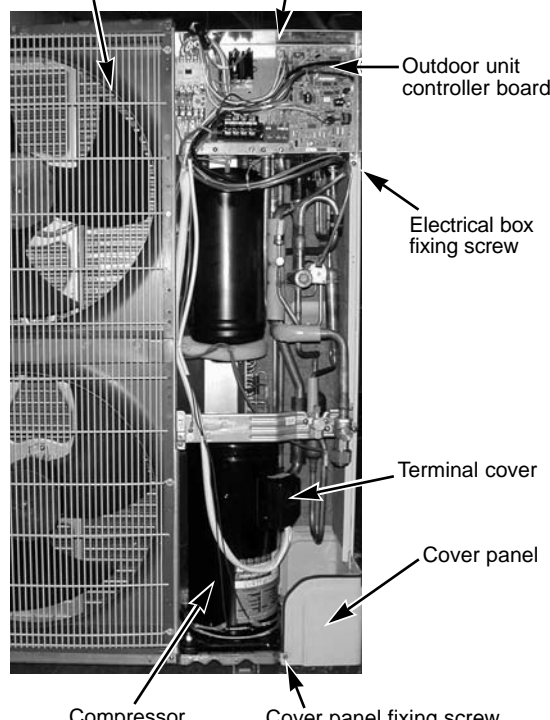
When the valve move smoothly, there is no noise or vibration occurring from the linear expansion valve : however, when the pulse number moves from ② to ① or when the valve is locked, more noise can be heard than normal situation.

- * Noise can be detected by placing the ear against the screw driver handle while putting the screw driver to the linear expansion valve.

③ Trouble shooting

Problem	Check point	Corrective measure
Operation circuit failure of the micro processor.	Remove the connector from the controller board and connect diagnostic LEDs.  Pulse signal will be sent out for 10 seconds as soon as the main switch is turn on. If there is LED with lights on or lights off, it means the operation circuit is abnormal.	Exchange the indoor controller board at drive circuit failure.
Linear expansion valve mechanism is locked.	Motor will idle and make ticking noise when motor is operated while the linear expansion valve is locked. This ticking sound is the sign of the abnormality.	Exchange the linear expansion vale.
Short or breakage of the motor coil of the linear expansion valve.	Measure the resistance between the each coil (red-white, red-orange, brown-yellow, brown-blue) using a tester. It is normal if the resistance is in the range of $150\Omega \pm 10\%$.	Exchange the linear expansion valve.
Wrong connection of the connector or contact failure.	① Check improperly connected connector terminals and the wire colors. ② Remove the connector on the controller board side and check electrical conductance	Disconnect the connector at the controller board, then check the continuity.

PUH-P5YGAA₍₁₎.UK, PUH-P6YGAA₍₁₎.UK

OPERATING PROCEDURE	PHOTOS
<p>1. Removing the Service panel and Top panel</p> <p>(1) Remove the 3 service panel fixing screws (5 X 15) and slide the hook to remove the service panel.</p> <p>(2) Remove the screws (3 for front, 2 for rear/5 X 15) of the top panel and remove it.</p> <p><When the rear screws of the top panel are not possible to remove> Remove the 3 front screws (5 X 15) of the top panel and lift the front side of the top panel.</p>	<p>Photo 1</p> 
<p>2. Removing the Fan and Fan motor</p> <p>(1) Remove the 6 fan guard screws (5 X 15) to remove it. (See Photo 1)</p> <p>(2) Remove the propeller nut (M8) and propeller fan.</p> <p>(3) Remove the 3 fan motor screws (5 X 25) to remove the fan motor.</p>	<p>Photo 2</p> 
<p>3. Removing the Electrical box</p> <p>(1) Remove the service panel. (See Photo 1)</p> <p>(2) Remove the top panel. (See Photo 1)</p> <p>(3) Remove the Bypass valve, Crankcase heater, Pressure switch<for high pressure>, Liquid temperature thermistor, Discharge temperature thermistor, condenser/evaporator temperature thermistor and 4-way valve from the connector housing on the controller board, then disconnect the fan motor lead wire from the housing mentioned before and the condenser lead wire for the fan from the electrical box.</p> <p><Diagram symbol in the connector housing> Bypass valve solenoid coil (SV) · Crankcase heater (CH) Pressure switch <for high pressure> (63H) Liquid temperature thermistor (TH3) Discharge temperature thermistor (TH4) Condenser/evaporator temperature thermistor (TH6) 4-way valve solenoid coil (21S4) · Fan motor (MF3, MF4)</p> <p>(4) Remove the terminal cover and disconnect the compressor lead wire and inner thermal device terminal.</p> <p>(5) Remove the electrical box screw (4 X 10) and lift the box to remove it. The electric box cover is hooked at 2 points on the left and 1 point on the right.</p>	<p>Photo 3</p> 

OPERATING PROCEDURE

4. Removing the liquid temperature thermistor, discharge temperature thermistor and condenser/evaporator temperature thermistor

- (1) Remove the service panel. (See Photo 1)
- (2) Remove the top panel. (See Photo 1)
(When the top panel removing is not possible, remove the electric parts box. Refer to 3.)
- ※ When removing liquid temperature thermistor and the discharge temperature thermistor, it unnecessary to remove the top panel. (See Photo 5)
- (3) Disconnect the lead wire of the liquid temperature thermistor, discharge temperature thermistor and condenser/evaporator temperature thermistor from the housing (TH3, TH4, TH6) on the controller board.
- (4) Loosen the 1 lead wire clamps on the electrical box.
- (5) Pull out the thermistor from the sensor holder.

5. Removing the bypass valve solenoid coil (SV)

- (1) Remove the service panel. (See Photo 1)
- (2) Remove the top panel. (See Photo 1)
(When the top panel removing is not possible, remove the electrical box. Refer to 3.)
- (3) Remove coil fixing screw (M4 X 8) and disconnect the lead wire of the bypass valve solenoid coil (SV) from on the controller board.

6. Removing the bypass valve

- (1) Remove the service panel. (See Photo 1)
- (2) Remove the top panel. (See Photo 1)
- (3) Remove the bypass valve solenoid coil. (See Photo 4)
- (4) Recover gas from the refrigerant circuit.
- (5) Remove the braze at the intake and outlet of the bypass valve.

Note :

- Before using a burner, reclaim gas from the pipes until the pressure gauge shows 0 kg/cm² (0 MPa).
- Use the burner under the condition that gas can be recovered even when the inner pressure rises by heat.
- When installing the bypass valve, cover it with a wet cloth to prevent it from heating, then braze the pipes.

7. Removing the 4-way valve solenoid coil (21S4)

- (1) Remove the service panel. (See Photo 1)
- (2) Remove 4-way valve solenoid coil fixing screw (M5 X 6) and disconnect the lead wire of the 4-way valve solenoid coil (21S4) from the controller board.

8. Removing the 4-way valve

- (1) Remove the service panel. (See Photo 1)
- (2) Remove the 4-way valve solenoid coil. (See Photo 5)
- (3) Recover gas from the refrigerant circuit.
- (4) Remove the braze pipe of the 4-way valve.

Note :

- Before using a burner, reclaim gas from the pipes until the pressure gauge shows 0 kg/cm² (0 MPa).
- Use the burner under the condition that gas can be recovered even when the inner pressure rises by heat.
- When installing the 4-way valve, cover it with a wet cloth to prevent it from heating, then braze the pipes.

PHOTOS

Photo 4

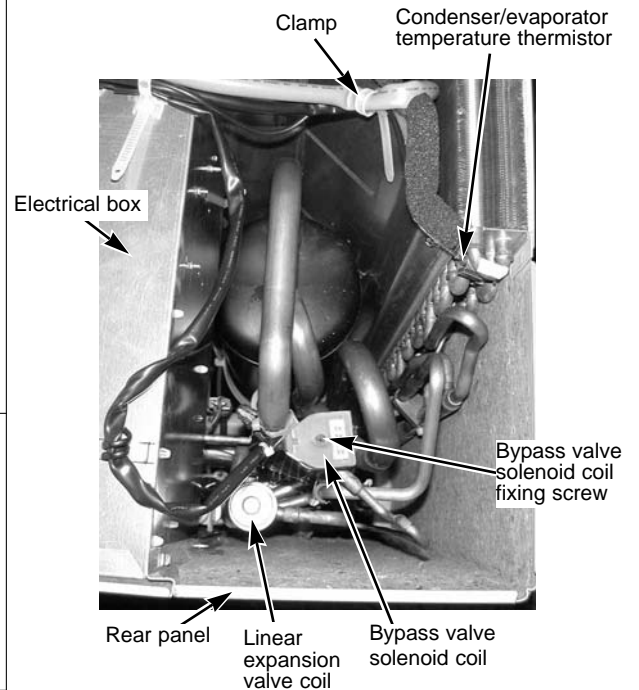
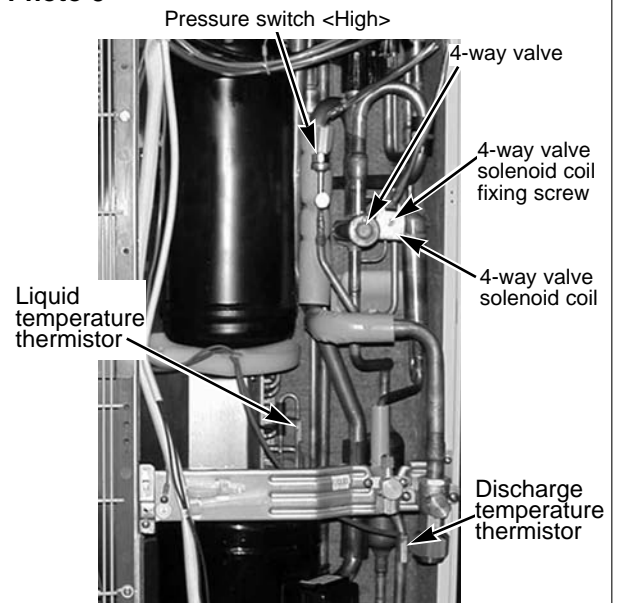


Photo 5



OPERATING PROCEDURE

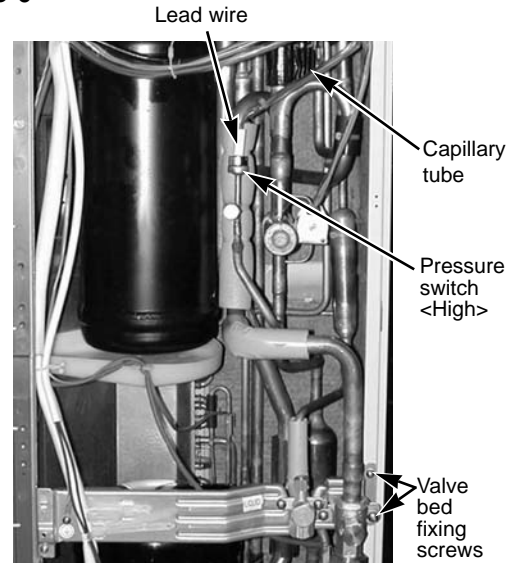
9. Removing the High pressure switch

- (1) Remove the service panel. (See Photo 1)
- (2) Remove the top panel. (See Photo 1)
- (3) Remove the electrical box. (See Photo 3)
- (4) Disconnect the lead wire of the pressure switch. (See Photo 6)
- (5) Remove the braze part of the pressure switch.

Note : When installing the pressure switch, cover the pressure switch with a wet cloth to prevent the pressure switch from heating, then braze it.

PHOTOS

Photo 6



10. Removing the linear expansion valve

- (1) Remove the service panel. (See Photo 1)
- (2) Remove the top panel. (See Photo 1)
- (3) Remove the electrical box. (See Photo 3)
- (4) Recover gas from the refrigerant circuit.
- (5) Remove the linear expansion valve coil. (See Photo 7)
- (6) Remove the braze pipes of the linear expansion valve.

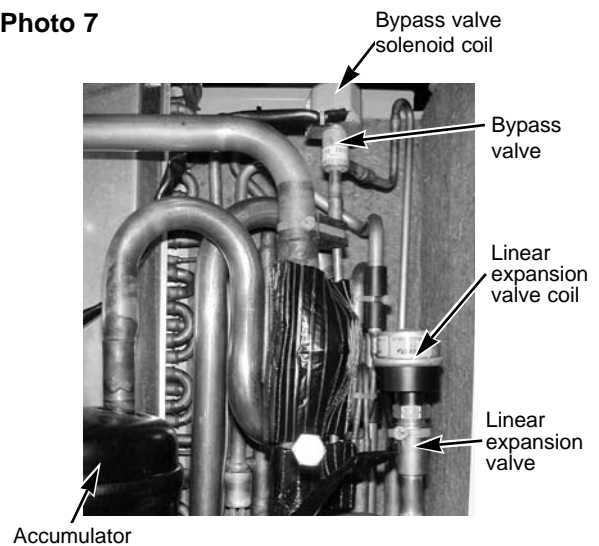
Note 1: When installing the linear expansion valve, remove its coil and cover the valve with a wet cloth so as to prevent it from heating, then braze the pipes.

Note 2: By detaching the rear panel, the brazed parts will easily become separated.

Note 3:

- Before using a burner, reclaim gas from the pipes until the pressure gauge shows 0 kg/cm² (0 MPa).
- Use the burner under the condition that gas can be recovered even when the inner pressure rises by heat.

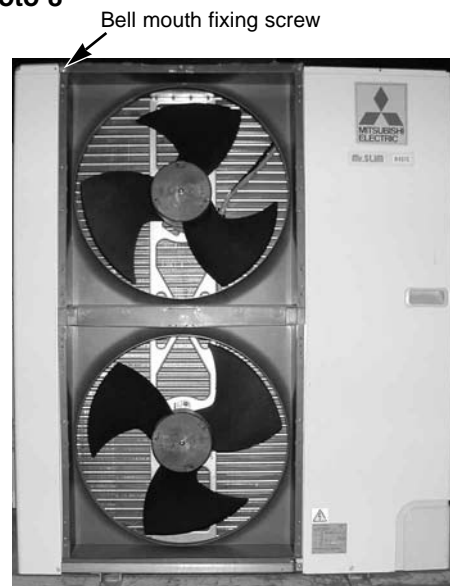
Photo 7



11. Removing the Bell mouth

- (1) Remove the 6 fan guard fixing screws (5 X 15) to remove it. (See Photo 1)
- (2) Remove the top panel.
- (3) Remove a bell mouth fixing screw (5 X 15) to remove it.

Photo 8



OPERATING PROCEDURE

12. Removing the compressor

- (1) Remove the service panel. (See Photo 1)
- (2) Remove the top panel. (See Photo 1)
- (3) Remove the electric parts box. (See Photo 3)
- (4) Remove the bell mouth. (See Photo 8)
- (5) Remove the 3 valve bed fixing screws (4 X 10) and the 4 ball valve fixing screws (5 X 16) to remove the valve bed.
- (6) Remove the 3 rear panel fixing screws (5 X 15) to the panel.
- (7) Remove the cover panel fixing screw (5 X 15) to remove the front side of cover panel.
- (8) Recover gas from the refrigerant circuit.
- (9) Remove the 3 points of the compressor fixing nut with a monkey wrench.
- (10) Remove the brazed pipe of compressor intake and outlet to remove the compressor

<Reference>

- * When the power supply terminal block of the compressor is fixed with the screws, the tightening torque is from 1.4 to 1.7 N.m.

NOTE

- Before using a burner, reclaim gas from the pipes until the pressure gauge shows 0 kg/cm² (0 MPa).
- Use the burner under the condition that gas can be recovered even when the inner pressure rises by heat.

13. Removing the accumulator.

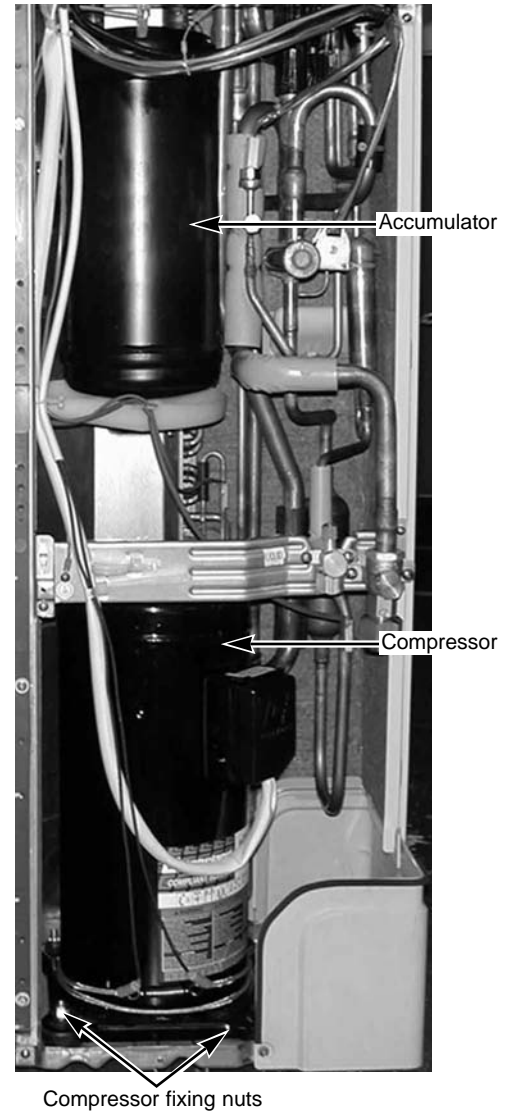
- (1) Recover gas from the refrigerant circuit.
- (2) Remove the compressor or remove the rear panel.
- (3) Remove the brazed pipe of accumulator intake and outlet to remove the accumulator

NOTE :

- Before using a burner, reclaim gas from the pipes until the pressure gauge shows 0 kg/cm² (0 MPa).
- Use the burner under the condition that gas can be recovered even when the inner pressure rises by heat.

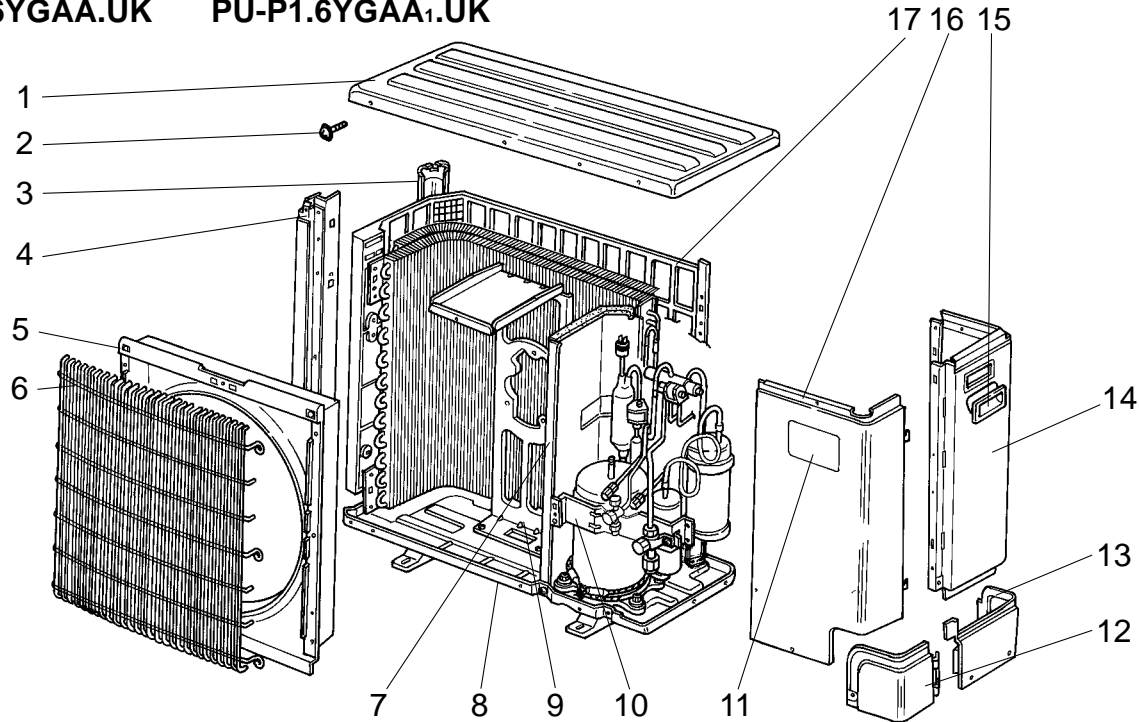
PHOTOS

Photo 9



STRUCTURAL PARTS

PUH-P1VGAA.UK PUH-P1VGAA₁.UK
 PUH-P1.6VGAA.UK PUH-P1.6VGAA₁.UK
 PUH-P1.6YGAA.UK PUH-P1.6YGAA₁.UK
 PU-P1.6VGAA.UK PU-P1.6VGAA₁.UK
 PU-P1.6YGAA.UK PU-P1.6YGAA₁.UK



No.	Part No.	Part Name	Specification	Q'ty/set					Remarks (Drawing No.)	Wining Diagram Symbol	Recom- mended Q'ty	Price	
				PUH- P1-.UK	PUH-P1.6 -.UK	PU-P1.6 -.UK						Unit	Amount
				VGAA VGAA ₁	VGAA VGAA ₁	YGAA YGAA ₁	VGAA VGAA ₁	YGAA YGAA ₁					
1	S70 30L 641	TOP PANEL		1	1	1	1	1					
2	—	F.ST SCREW	(5X15)	16	16	16	16	16	(DG12F536H15)				
3	S70 30L 613	REAR SUPPORT		1	1	1	1	1					
4	S70 23T 614	FRONT SUPPORT		1	1	1	1	1					
5	S70 30L 119	BELL MOUTH		1	1	1	1	1					
6	S70 E01 675	WIRE GRILL - S		1	1	1	1	1					
7	—	SEPARATOR ASSY		1	1	1	1	1	(RG00R045G01)				
8	S70 E01 686	BASE		1	1	1	1	1					
9	S70 96W 130	MOTOR SUPPORT		1	1	1	1	1					
10	—	VALVE BED ASSY		1	1	1	1	1	(RG00R048G01)				
11	S70 001 699	LABEL (MITSUBISHI)		1	1	1	1	1					
12	S70 31L 658	COVER PANEL 1		1	1	1	1	1					
13	S70 30L 658	COVER PANEL 2		1	1	1	1	1					
14	S70 E00 682	REAR PANEL		1	1	1	1	1					
15	S70 30L 655	PANEL HANDLE		1	1	1	1	1					
16	S70 E09 661	SERVICE PANEL		1	1								
	S70 E08 661	SERVICE PANEL				1							
	S70 E01 661	SERVICE PANEL					1						
	S70 E05 661	SERVICE PANEL						1					
17	S70 30L 698	REAR GUARD		1	1	1	1	1					

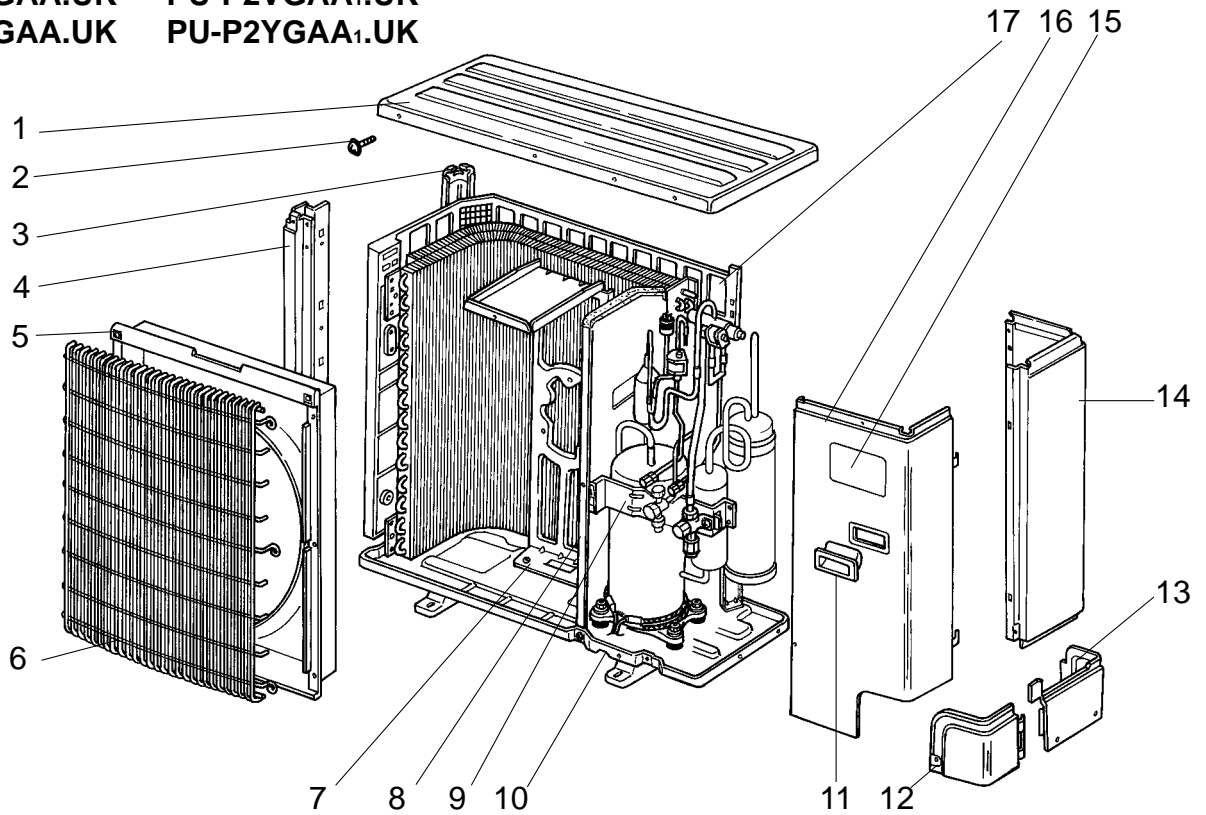
STRUCTURAL PARTS

PUH-P2VGAA.UK PUH-P2VGAA₁.UK

PUH-P2YGAA.UK PUH-P2YGAA₁.UK

PU-P2VGAA.UK PU-P2VGAA₁.UK

PU-P2YGAA.UK PU-P2YGAA₁.UK



No.	Part No.	Part Name	Specificatio	Q'ty/set				Remarks (Drawing No.)	Wining Diagram Symbol	Recom- mended Q'ty	Price	
				PUH-P2 .UK VGAA VGAA ₁	PU-P2 .UK YGAA YGAA ₁	VGAA VGAA ₁	YGAA YGAA ₁				Unit	Amount
1	S70 30L 641	TOP PANEL		1	1	1	1					
2	—	F.ST SCREW	(5X15)	16	16	16	16	(DG12F536H15)				
3	S70 97W 613	REAR SUPPORT		1	1	1	1					
4	S70 E00 614	FRONT SUPPORT		1	1	1	1					
5	S70 36L 119	BELL MOUTH		1	1	1	1					
6	S70 E02 675	WIRE GRILL-M		1	1	1	1					
7	S70 97W 130	MOTOR SUPPORT		1	1	1	1					
8	—	SEPARATOR ASSY		1	1	1	1	(RG00R045G02)				
9	—	VALVE BED ASSY		1	1	1	1	(RG00R048G02)				
10	S70 E02 686	BASE		1	1	1	1					
11	S70 30L 655	PANEL HANDLE		2	2	2	2					
12	S70 31L 658	COVER PANEL-1		1	1	1	1					
13	S70 30L 658	COVER PANEL-2		1	1	1	1					
14	S70 E01 682	REAR PANEL		1	1	1	1					
15	S70 001 699	LABEL (MITSUBISHI)		1	1	1	1					
16	S70 E10 661	SERVICE PANEL		1								
	S70 E11 661	SERVICE PANEL			1							
	S70 E02 661	SERVICE PANEL				1						
	S70 E06 661	SERVICE PANEL					1					
17	S70 31L 698	REAR GUARD		1	1	1	1					

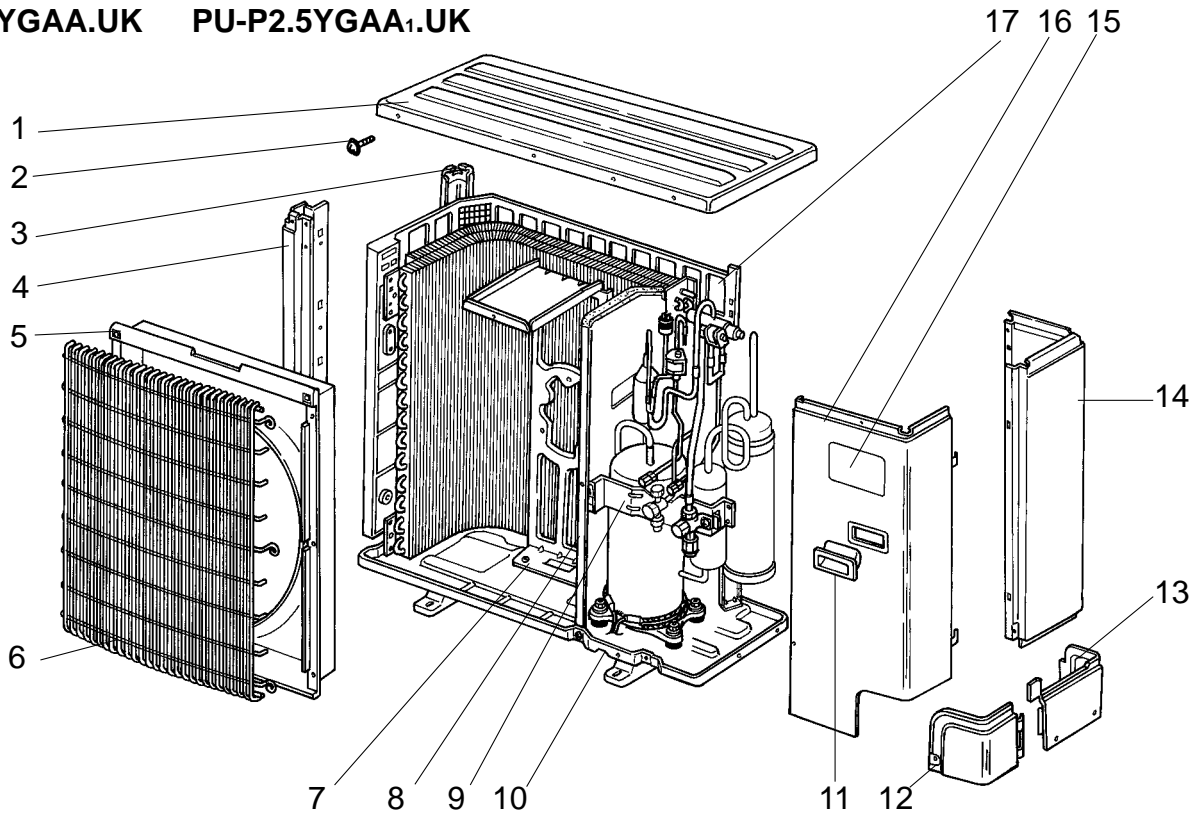
STRUCTURAL PARTS

PUH-P2.5VGAA.UK PUH-P2.5VGAA₁.UK

PUH-P2.5YGAA.UK PUH-P2.5YGAA₁.UK

PU-P2.5VGAA.UK PU-P2.5VGAA₁.UK

PU-P2.5YGAA.UK PU-P2.5YGAA₁.UK



No.	Part No.	Part Name	Specificatio	Q'ty/set				Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PUH-P2.5·UK VGAA ₁	YGAA ₁	PU-P2.5·UK VGAA ₁	YGAA ₁				Unit	Amount
1	S70 30L 641	TOP PANEL		1	1	1	1					
2	—	F.ST SCREW	(5X15)	16	16	16	16	(DG12F536H15)				
3	S70 97W 613	REAR SUPPORT		1	1	1	1					
4	S70 E00 614	FRONT SUPPORT		1	1	1	1					
5	S70 36L 119	BELL MOUTH		1	1	1	1					
6	S70 E02 675	WIRE GRILL-M		1	1	1	1					
7	S70 97W 130	MOTOR SUPPORT		1	1	1	1					
8	—	SEPARATOR ASSY		1	1	1	1	(RG00R045G02)				
9	—	VALVE BED ASSY		1	1	1	1	(RG00R048G02)				
10	S70 E02 686	BASE		1	1	1	1					
11	S70 30L 655	PANEL HANDLE		2	2	2	2					
12	S70 31L 658	COVER PANEL-1		1	1	1	1					
13	S70 30L 658	COVER PANEL-2		1	1	1	1					
14	S70 E01 682	REAR PANEL		1	1	1	1					
15	S70 001 699	LABEL (MITSUBISHI)		1	1	1	1					
16	S70 E10 661	SERVICE PANEL		1								
	S70 E11 661	SERVICE PANEL			1							
	S70 E02 661	SERVICE PANEL				1						
	S70 E06 661	SERVICE PANEL					1					
17	S70 30L 698	REAR GUARD		1	1	1	1					

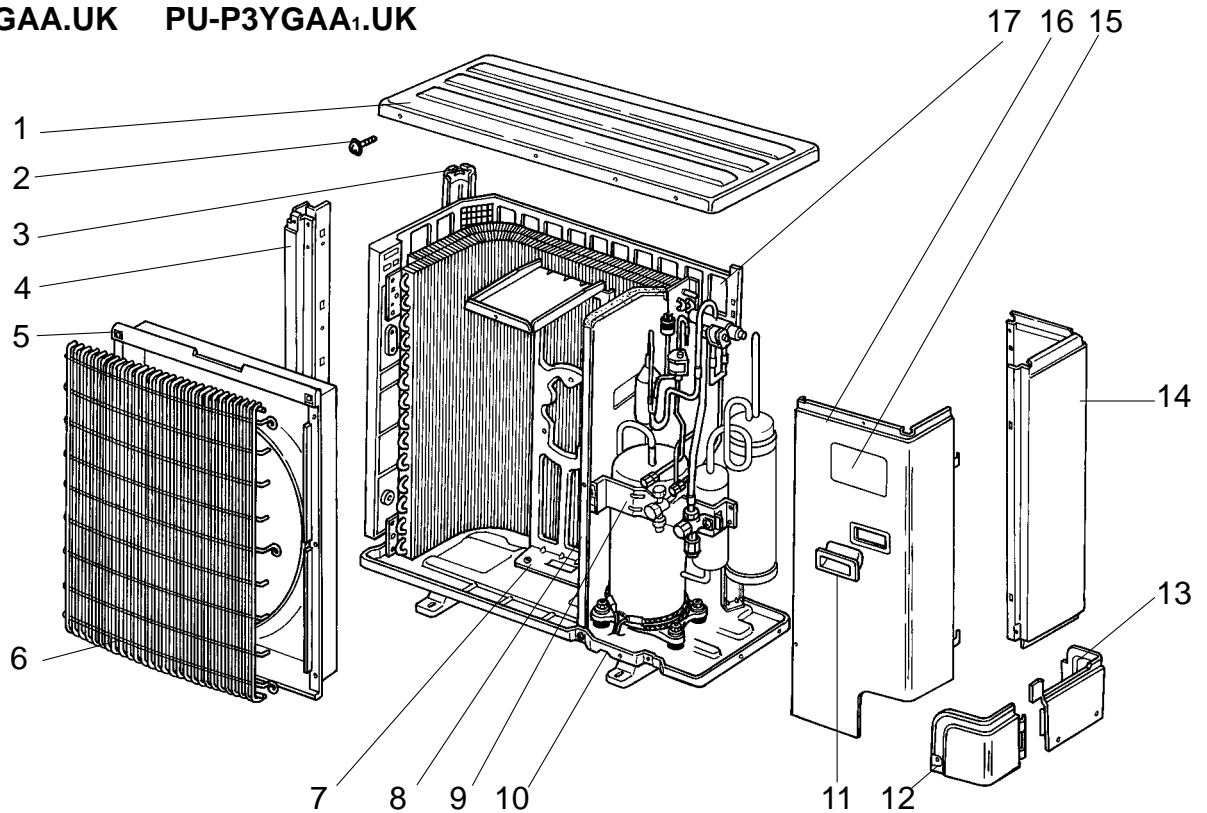
STRUCTURAL PARTS

PUH-P3VGAA.UK PUH-P3VGAA₁.UK

PUH-P3YGAA.UK PUH-P3YGAA₁.UK

PU-P3VGAA.UK PU-P3VGAA₁.UK

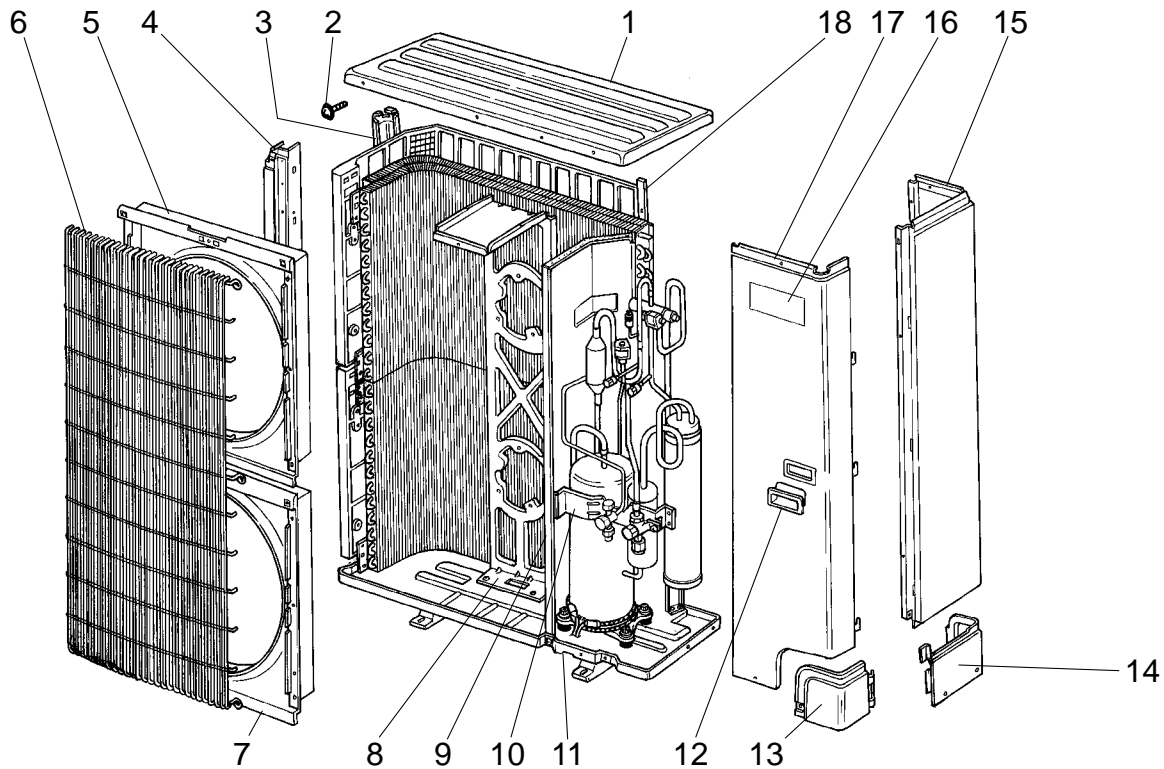
PU-P3YGAA.UK PU-P3YGAA₁.UK



No.	Part No.	Part Name	Specificatio	Q'ty/set				Remarks (Drawing No.)	Wining Diagram Symbol	Recom- mended Q'ty	Price	
				PUH-P3 . UK		PU-P3 . UK					Unit	Amount
				VGAA	YGAA	VGAA	YGAA					
1	S70 30L 641	TOP PANEL		1	1	1	1					
2	—	F.ST SCREW	(5X15)	16	16	16	16	(DG12F536H15)				
3	S70 97W 613	REAR SUPPORT		1	1	1	1					
4	S70 E00 614	FRONT SUPPORT		1	1	1	1					
5	S70 36L 119	BELL MOUTH		1	1	1	1					
6	S70 E02 675	WIRE GRILL-M		1	1	1	1					
7	S70 97W 130	MOTOR SUPPORT		1	1	1	1					
8	—	SEPARATOR ASSY		1	1	1	1	(RG00R045G03)				
9	—	VALVE BED ASSY		1	1	1	1	(RG00R048G02)				
10	S70 E02 686	BASE		1	1	1	1					
11	S70 30L 655	PANEL HANDLE		2	2	2	2					
12	S70 31L 658	COVER PANEL-1		1	1	1	1					
13	S70 30L 658	COVER PANEL-2		1	1	1	1					
14	S70 E02 682	REAR PANEL		1	1	1	1					
15	S70 001 699	LABEL (MITSUBISHI)		1	1	1	1					
16	S70 E10 661	SERVICE PANEL		1								
	S70 E11 661	SERVICE PANEL			1							
	S70 E02 661	SERVICE PANEL				1						
	S70 E06 661	SERVICE PANEL					1					
17	S70 30L 698	REAR GUARD		1	1	1	1					

STRUCTURAL PARTS

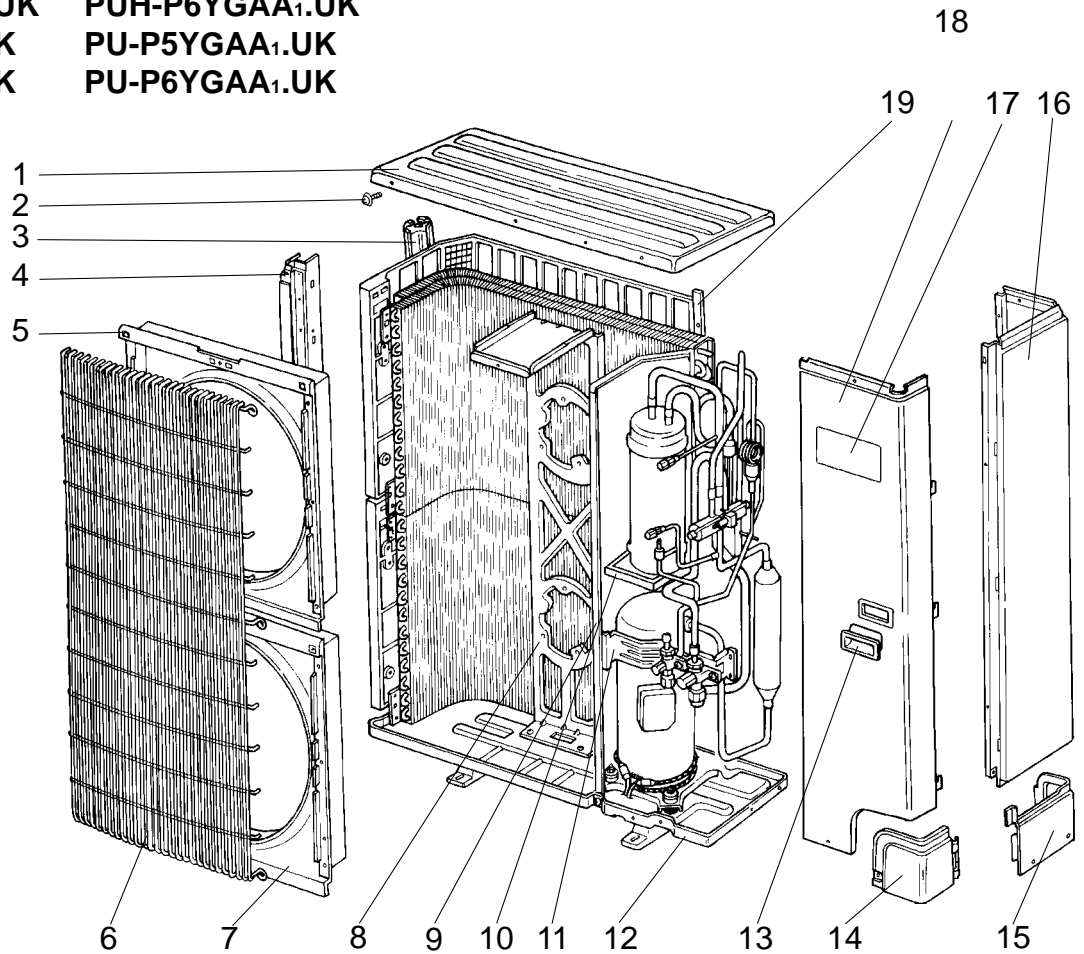
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 PUH-P4YGAA.UK PUH-P4YGAA₁.UK PU-P4YGAA.UK PU-P4YGAA₁.UK



No.	Part No.	Part Name	Specification	Q'ty/set				Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PUH-P4 . UK VGAA VGAA ₁	PU-P4 . UK YGAA YGAA ₁	Unit	Amount					
1	S70 30L 641	TOP PANEL		1	1	1	1					
2	—	F.ST SCREW	(5X15)	18	18	18	18	(DG12F536H15)				
3	S70 98W 613	REAR SUPPORT		1	1	1	1					
4	S70 E01 614	FRONT SUPPORT		1	1	1	1					
5	S70 41L 119	BELL MOUTH		1	1	1	1					
6	S70 E03 675	WIRE GRILL - L		1	1	1	1					
7	S70 30L 119	BELL MOUTH		1	1	1	1					
8	S70 42L 130	MOTOR SUPPORT		1	1	1	1					
9	—	SEPARATOR ASSY		1	1	1	1	(RG00R045G04)				
10	—	VALVE BED ASSY		1	1	1	1	(RG00R048G02)				
11	S70 E03 686	BASE		1	1	1	1					
12	S70 30L 655	PANEL HANDLE		2	2	2	2					
13	S70 31L 658	COVER PANEL-1		1	1	1	1					
14	S70 30L 658	COVER PANEL-2		1	1	1	1					
15	S70 E03 682	REAR PANEL		1	1	1	1					
16	S70 001 699	LABEL (MITSUBISHI)		1	1	1	1					
17	S70 E12 661	SERVICE PANEL		1								
	S70 E13 661	SERVICE PANEL			1							
	S70 E03 661	SERVICE PANEL				1						
	S70 E07 661	SERVICE PANEL					1					
18	S70 30L 698	REAR GUARD		2	2	2	2					

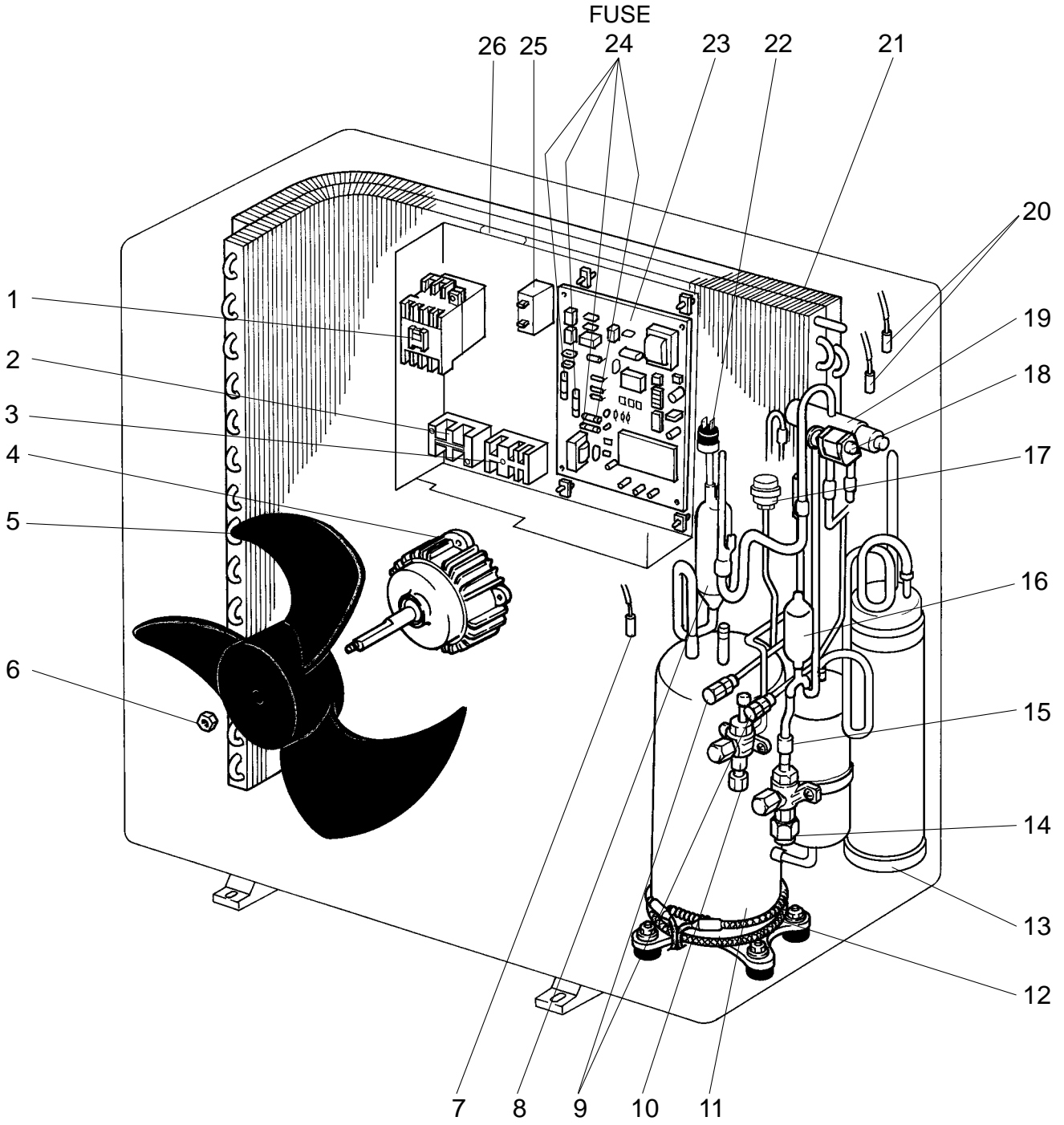
STRUCTURAL PARTS

PUH-P5YGAA.UK PUH-P5YGAA₁.UK
 PUH-P6YGAA.UK PUH-P6YGAA₁.UK
 PU-P5YGAA.UK PU-P5YGAA₁.UK
 PU-P6YGAA.UK PU-P6YGAA₁.UK



No.	Part No.	Part Name	Specification	Q'ty/set		Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PUH-P5,6 YGAA.UK YGAA ₁ .UK	PU-P5,6 YGAA.UK YGAA ₁ .UK				Unit	Amount
1	S70 17T 641	TOP PANEL		1	1					
2	—	F.ST SCREW	(5X15)	18	18	(DG12F536H15)				
3	S70 98W 613	REAR SUPPORT		1	1					
4	S70 17T 614	FRONT SUPPORT		1	1					
5	S70 41L 119	BELL MOUTH		1	1					
6	S70 E03 675	WIRE GRILL - L		1	1					
7	S70 30L 119	BELL MOUTH		1	1					
8	S70 42L 130	MOTOR SUPPORT		1	1					
9	—	SEPARATOR ASSY		1	1	(RG00R046G01)				
10	S70 A04 529	ACCUMULATOR DRAIN PAN		1	1					
11	—	VALVE BED ASSY		1	1	(RG00R048G03)				
12	S70 E04 686	BASE		1	1					
13	S70 30L 655	PANEL HANDLE		2	2					
14	S70 31L 658	COVER PANEL-1		1	1					
15	S70 30L 658	COVER PANEL-2		1	1					
16	S70 E04 682	REAR PANEL		1	1					
17	S70 001 699	LABEL(MITSUBISHI)		1	1					
18	S70 E14 661	SERVICE PANEL		1						
	S70 E04 661	SERVICE PANEL			1					
19	S70 17T 698	REAR GUARD		2	2					

FUNCTIONAL PARTS
PUH-P1VGAA.UK
PUH-P1VGAA₁.UK



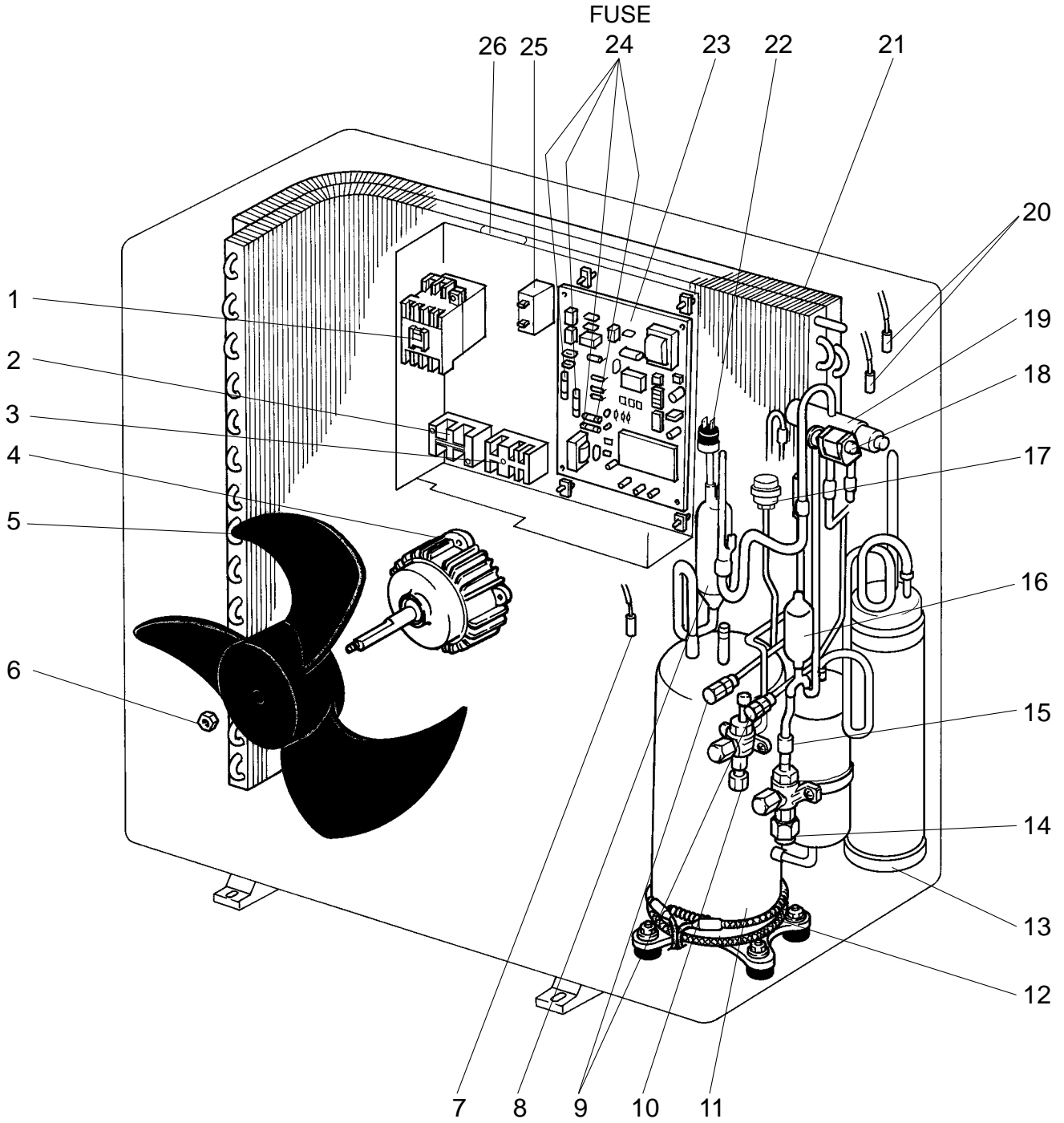


No.	Part No.	Part Name	Specification	Q'ty/set		Remarks	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PUH-P1V					Unit	Amount
				GAA.UK	GAA1.UK					
1	S70 249 708	CONTACTOR	S-U12 240V	1	1		52C			
2	S70 E03 716	TERMINAL BLOCK	2P(L,N)	1	1		TB1			
3	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1		TB2			
4	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1		MF			
5	S70 30L 115	PROPELLER FAN 4		1	1					
6	S70 30L 097	NUT	M8	1	1					
7	S70 E16 202	THERMISTOR (DISCHARGE)		1	1		TH4			
8	S70 E00 467	MUFFLER		1	1					
9	S70 E00 413	CHARGE PLUG		2	2					
10	S70 400 418	STOP VALVE(LIQUID)	1/4"	1	1					
11	S70 061 400	COMPRESSOR	RE189VHSMT	1	1		MC			
12	S70 E02 236	CRANKCASE HEATER	240V / 30W	1	1		CH			
13	S70 E02 440	ACCUMULATOR		1	1					
14	S70 E01 411	BALL VALVE	1/2"	1	1					
15	S70 66L 450	STRAINER	#50-12	1	1					
16	S70 E03 405	FILTER DRYER		1						
17	S70 E03 401	LINEAR EXPANSION VALVE		1	1		LEV			
18	S70 350 242	4-WAY VALVE SOLENOID COIL		1	1		21S4			
19	S70 E01 403	4-WAY VALVE (REVERSING)		1	1					
20	S70 E15 202	THERMISTOR (LIQUID , CONDENSER / EVAPORATOR)		1	1		TH3, TH6			
21	S70 E99 408	HEAT EXCHANGER		1	1					
22	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1		63H			
23	S70 31L 315	OUTDOOR CONTROLLER BOARD		1	1		O.B			
24	S70 520 239	FUSE	6.3A	4	4	(PART OF BOARD)	FUSE			
25	S70 30L 255	OUTDOOR FAN CAPACITOR	2.2 μ F 440V	1	1		C3			
26	S70 E00 723	COMPRESSOR CAPACITOR	30 μ F 420V	1	1		C5			

FUNCTIONAL PARTS

PUH-P1.6VGAA.UK PUH-P1.6VGAA₁.UK

PU-P1.6VGAA.UK PU-P1.6VGAA₁.UK





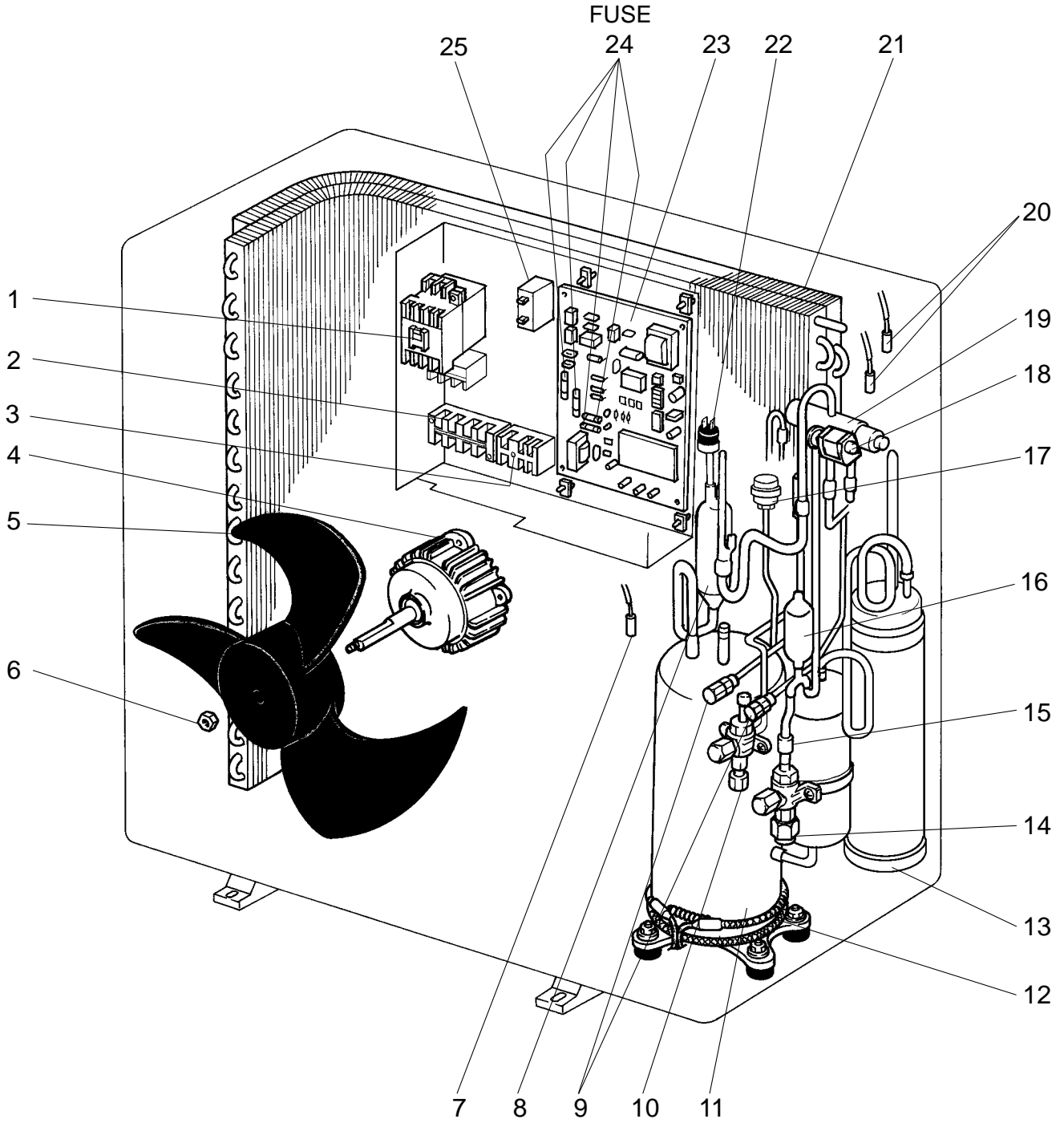
Part number that is circled is not shown in the figure.

No.	Part No.	Part Name	Specification	Q'ty/set				Remarks	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PUH-P1.6V		PU-P1.6V					Unit	Amount
				GAA.UK	GAA ₁ .UK	GAA.UK	GAA ₁ .UK					
1	S70 249 708	CONTACTOR	S-U12 240V	1	1	1	1		52C			
2	S70 E03 716	TERMINAL BLOCK	2P(L,N)	1	1	1	1		TB1			
3	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB2			
4	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1	1	1		MF			
5	S70 30L 115	PROPELLER FAN 4		1	1	1	1					
6	S70 30L 097	NUT	M8	1	1	1	1					
7	S70 E16 202	THERMISTOR (DISCHARGE)		1	1	1	1		TH4			
8	S70 E00 467	MUFFLER		1	1	1	1					
9	S70 E00 413	CHARGE PLUG		2	2	2	2					
10	S70 200 418	STOP VALVE(LIQUID)	3/8"	1	1	1	1					
11	S70 062 400	COMPRESSOR	RE277VHSMT	1	1	1	1		MC			
12	S70 E02 236	CRANKCASE HEATER	240V / 30W	1	1	1	1		CH			
13	S70 E02 440	ACCUMULATOR		1	1	1	1					
14	S70 E03 411	BALL VALVE	5/8"	1	1	1	1					
15	S70 66L 450	STRAINER	#50-12	1	1	1	1					
16	S70 E03 405	FILTER DRYER		1		1						
17	S70 E03 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
18	S70 350 242	4-WAY VALVE SOLENOID COIL		1	1				21S4			
19	S70 E01 403	4-WAY VALVE (REVERSING)		1	1							
20	S70 E15 202	THERMISTOR (LIQUID , CONDENSER / EVAPORATOR)		1	1	1	1		TH3, TH6			
21	S70 E00 408	HEAT EXCHANGER		1	1	1	1					
22	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1	1	1		63H			
23	S70 31L 315	OUTDOOR CONTROLLER BOARD		1	1	1	1		O.B			
24	S70 520 239	FUSE	6.3A	4	4	4	4	(PART OF BOARD)	FUSE			
25	S70 30L 255	OUTDOOR FAN CAPACITOR	2.2 μ F 440V	1	1	1	1		C3			
26	S70 E01 723	COMPRESSOR CAPACITOR	40 μ F 400V	1	1	1	1		C5			
27	S70 30L 450	STRAINER	#50-9.52	1		1						

FUNCTIONAL PARTS

PUH-P1.6YGAA.UK PUH-P1.6YGAA₁.UK

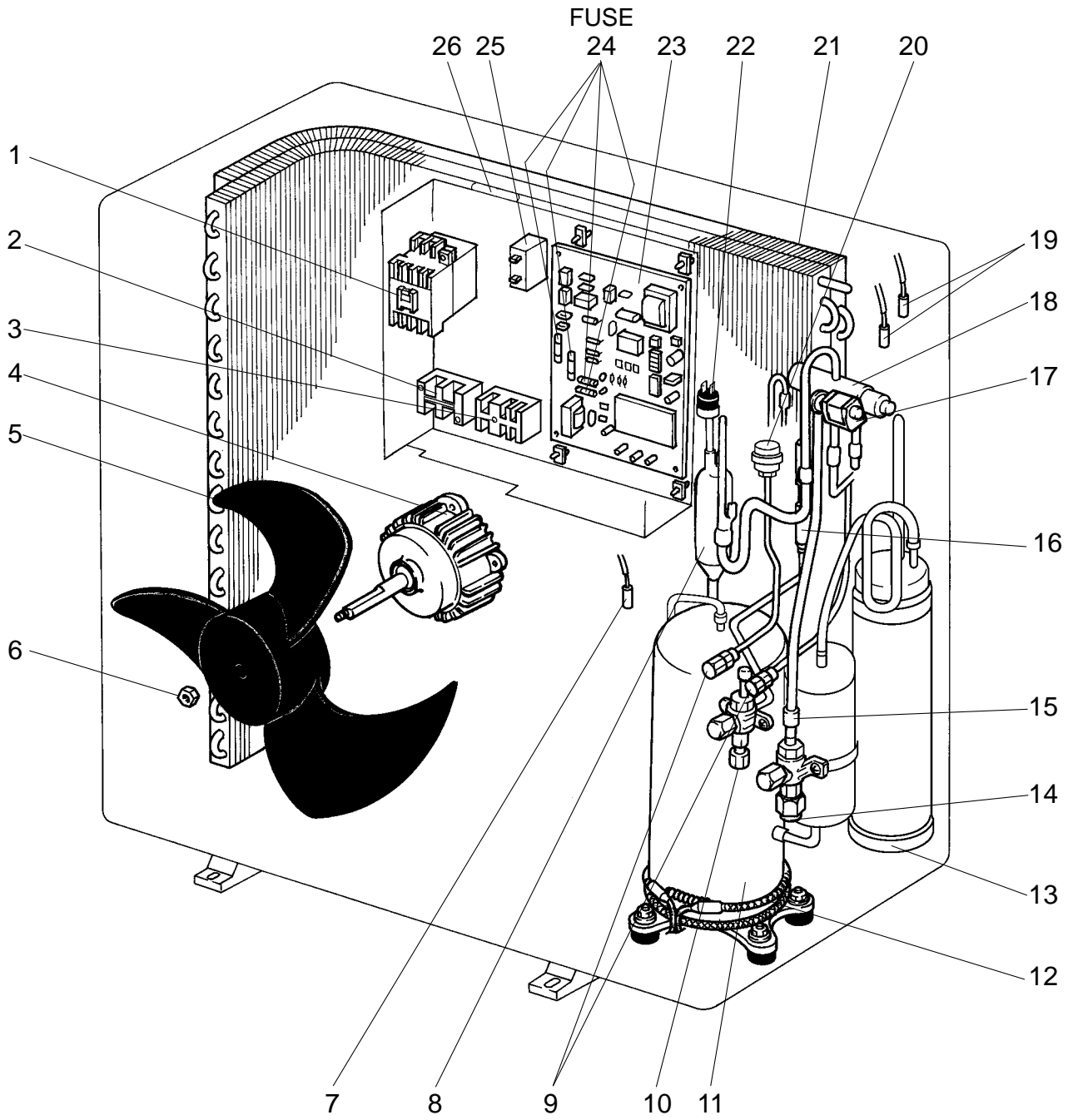
PU-P1.6YGAA.UK PU-P1.6YGAA₁.UK



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

No.	Part No.	Part Name	Specification	Q'ty/set				Remarks	Wining Diagram Symbol	Recom-mended Q'ty	Price	
				PUH-P1.6Y		PU-P1.6Y					Unit	Amount
				GAA.UK	GAA ₁ .UK	GAA.UK	GAA ₁ .UK					
1	S70 250 708	CONTACTOR	MSO-N11	1	1	1	1		51C,52C			
2	S70 E03 716	TERMINAL BLOCK	4P(L1,L2,L3,N)	1	1	1	1		TB1			
3	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB2			
4	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1	1	1		MF			
5	S70 30L 115	PROPELLER FAN 4		1	1	1	1					
6	S70 30L 097	NUT	M8	1	1	1	1					
7	S70 E16 202	THERMISTOR (DISCHARGE)		1	1	1	1		TH4			
8	S70 E00 467	MUFFLER		1	1							
9	S70 E00 413	CHARGE PLUG		2	2	2	2					
10	S70 200 418	STOP VALVE(LIQUID)	3/8"	1	1	1	1					
11	S70 063 400	COMPRESSOR	RE277YFKM	1	1	1	1		MC			
12	S70 E02 236	CRANKCASE HEATER	240V / 38W	1	1	1	1		CH			
13	S70 E02 440	ACCUMULATOR		1	1	1	1					
14	S70 E03 411	BALL VALVE	5/8"	1	1	1	1					
15	S70 66L 450	STRAINER	#50-12	1	1	1	1					
16	S70 E03 405	FILTER DRYER		1		1						
17	S70 E03 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
18	S70 350 242	4-WAY VALVE SOLENOID COIL		1	1				21S4			
19	S70 E01 403	4-WAY VALVE (REVERSING)		1	1							
20	S70 E15 202	THERMISTOR (LIQUID , CONDENSER / EVAPORATOR)		1	1	1	1		TH3, TH6			
21	S70 E00 408	HEAT EXCHANGER		1	1	1	1					
22	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1	1	1		63H			
23	S70 32L 315	OUTDOOR CONTROLLER BOARD		1	1	1	1		O.B			
24	S70 520 239	FUSE	6.3A	4	4	4	4	(PART OF BOARD)	FUSE			
25	S70 30L 255	OUTDOOR FAN CAPACITOR	2.2 μ F 440V	1	1	1	1		C3			
26	S70 30L 450	STRAINER	#50-9.52	1		1						

FUNCTIONAL PARTS
PUH-P2VGAA.UK PUH-P2VGAA1.UK
PU-P2VGAA.UK PU-P2VGAA1.UK



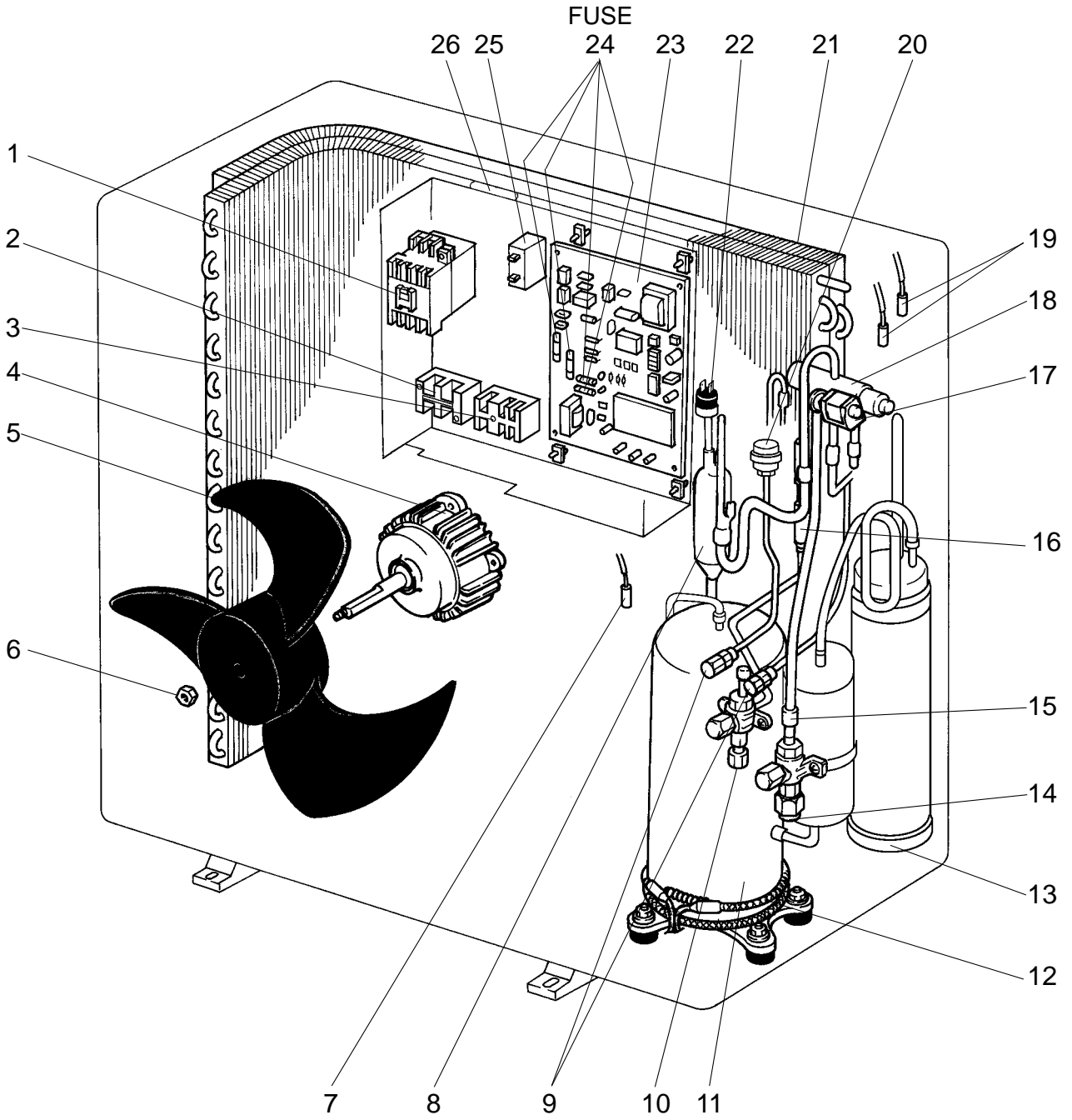
Part number that is circled is not shown in the figure.

No.	Part No.	Part Name	Specification	Q'ty/set				Remarks	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PUH-P2V		PU-P2V					Unit	Amount
				GAA.UK	GAA1.UK	GAA.UK	GAA1.UK					
1	S70 330 708	CONTACTOR	S-N18EX	1	1	1	1		52C			
2	S70 E03 716	TERMINAL BLOCK	2P(L,N)	1	1	1	1		TB1			
3	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB2			
4	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1	1	1		MF			
5	S70 30L 115	PROPELLER FAN 4		1	1	1	1					
6	S70 30L 097	NUT	M8	1	1	1	1					
7	S70 E16 202	THERMISTOR (DISCHARGE)		1	1	1	1		TH4			
8	S70 36L 467	MUFFLER		1	1							
9	S70 E00 413	CHARGE PLUG		2	2	2	2					
10	S70 300 418	STOP VALVE (LIQUID)	3/8"	1	1	1	1					
11	S70 064 400	COMPRESSOR	NE36VMJMT	1	1	1	1		MC			
12	S70 E04 236	CRANKCASE HEATER	240V / 38W	1	1	1	1		CH			
13	S70 E04 440	ACCUMULATOR		1	1	1	1					
14	S70 E04 411	BALL VALVE	5/8"	1	1	1	1					
15	S70 36L 450	STRAINER	#50-16	1	1	1	1					
16	S70 E03 405	FILTER DRYER		1		1						
17	S70 350 242	4-WAY VALVE SOLENOID COIL		1	1				21S4			
18	S70 A00 403	4-WAY VALVE (REVERSING)		1	1							
19	S70 E15 202	THERMISTOR(LIQUID , CONDENSER / EVAPORATOR)		1	1	1	1		TH3, TH6			
20	S70 E02 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
21	S70 E02 408	HEAT EXCHANGER		1	1	1	1					
22	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1	1	1		63H			
23	S70 31L 315	OUTDOOR CONTROLLER BOARD		1	1	1	1		O.B			
24	S70 520 239	FUSE	6.3A	4	4	4	4	(PART OF BOARD)	FUSE			
25	S70 30L 255	OUTDOOR FAN CAPACITOR	2.2 μ F \times 440V	1	1	1	1		C3			
26	S70 100 723	COMPRESSOR CAPACITOR	50 μ F \times 420V	1	1	1	1		C5			
27	S70 30L 450	STRAINER	#50-9.52	1		1						

FUNCTIONAL PARTS

PUH-P2.5VGAA.UK PUH-P2.5VGAA₁.UK

PU-P2.5VGAA.UK PU-P2.5VGAA₁.UK





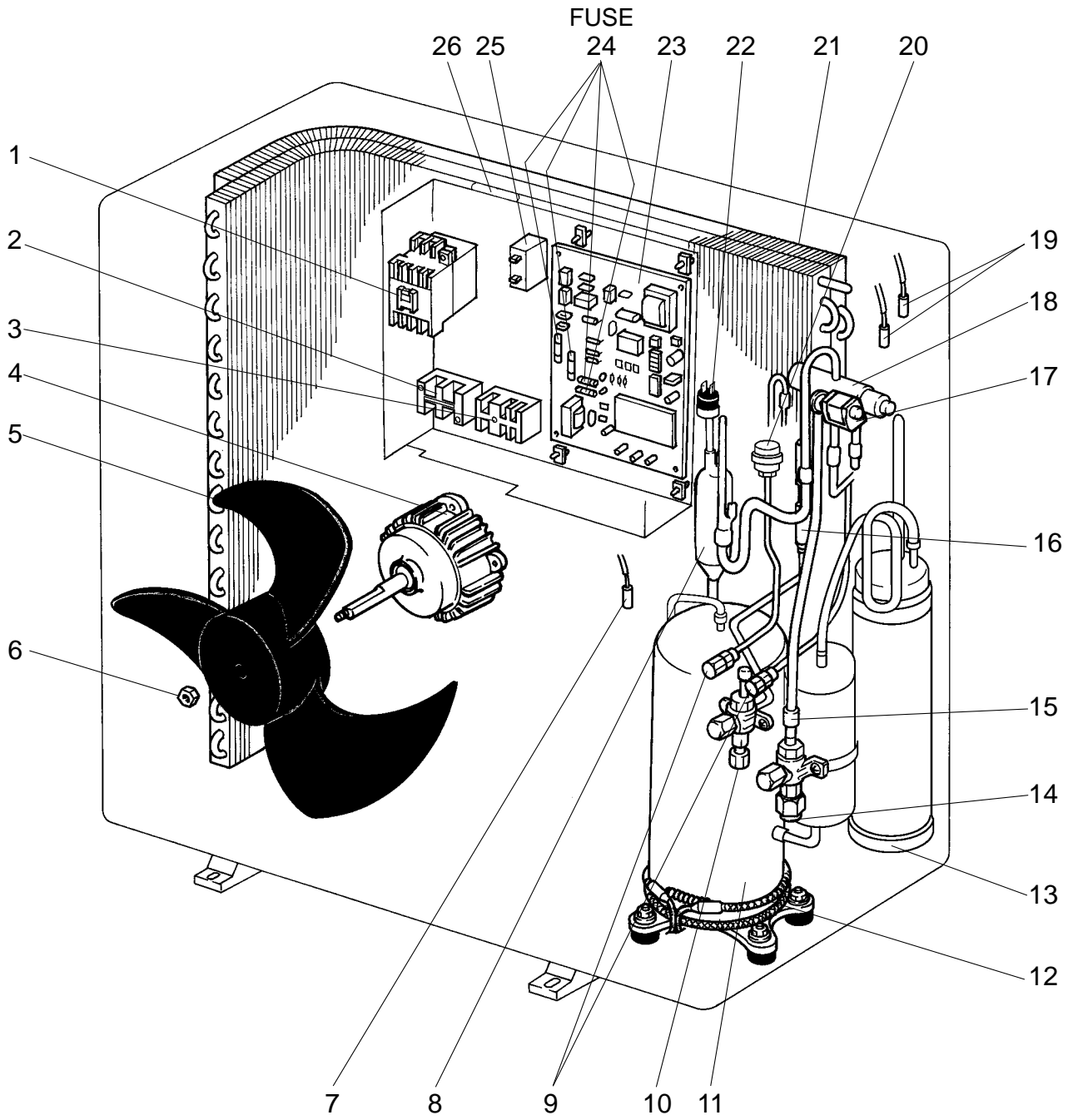
Part number that is circled is not shown in the figure.

No.	Part No.	Part Name	Specification	Q'ty/set				Remarks	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PUH-P2.5V		PU-P2.5V					Unit	Amount
				GAA.UK	GAA1.UK	GAA.UK	GAA1.UK					
1	S70 330 708	CONTACTOR	S-N18EX	1	1	1	1		52C			
2	S70 E03 716	TERMINAL BLOCK	2P(L,N)	1	1	1	1		TB1			
3	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB2			
4	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1	1	1		MF			
5	S70 30L 115	PROPELLER FAN 4		1	1	1	1					
6	S70 30L 097	NUT	M8	1	1	1	1					
7	S70 E16 202	THERMISTOR (DISCHARGE)		1	1	1	1		TH4			
8	S70 36L 467	MUFFLER		1	1							
9	S70 E00 413	CHARGE PLUG		2	2	2	2					
10	S70 300 418	STOP VALVE (LIQUID)	3/8"	1	1	1	1					
11	S70 066 400	COMPRESSOR	NE41VMJMT	1	1	1	1		MC			
12	S70 E04 236	CRANKCASE HEATER	240V / 38W	1	1	1	1		CH			
13	S70 E03 440	ACCUMULATOR		1	1	1	1					
14	S70 E04 411	BALL VALVE	5/8"	1	1	1	1					
15	S70 36L 450	STRAINER	#50-16	1	1	1	1					
16	S70 E03 405	FILTER DRYER		1		1						
17	S70 350 242	4-WAY VALVE SOLENOID COIL		1	1				21S4			
18	S70 A00 403	4-WAY VALVE (REVERSING)		1	1							
19	S70 E15 202	THERMISTOR(LIQUID , CONDENSER / EVAPORATOR)		1	1	1	1		TH3, TH6			
20	S70 E02 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
21	S70 E01 408	HEAT EXCHANGER		1	1	1	1					
22	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1	1	1		63H			
23	S70 31L 315	OUTDOOR CONTROLLER BOARD		1	1	1	1		O.B			
24	S70 520 239	FUSE	6.3A	4	4	4	4	(PART OF BOARD)	FUSE			
25	S70 30L 255	OUTDOOR FAN CAPACITOR	2.2 μ F \times 440V	1	1	1	1		C3			
26	S70 869 723	COMPRESSOR CAPACITOR	45 μ F \times 440V	1	1	1	1		C5			
27	S70 30L 450	STRAINER	#50-9.52	1		1						

FUNCTIONAL PARTS

PUH-P3VGAA.UK PUH-P3VGAA₁.UK

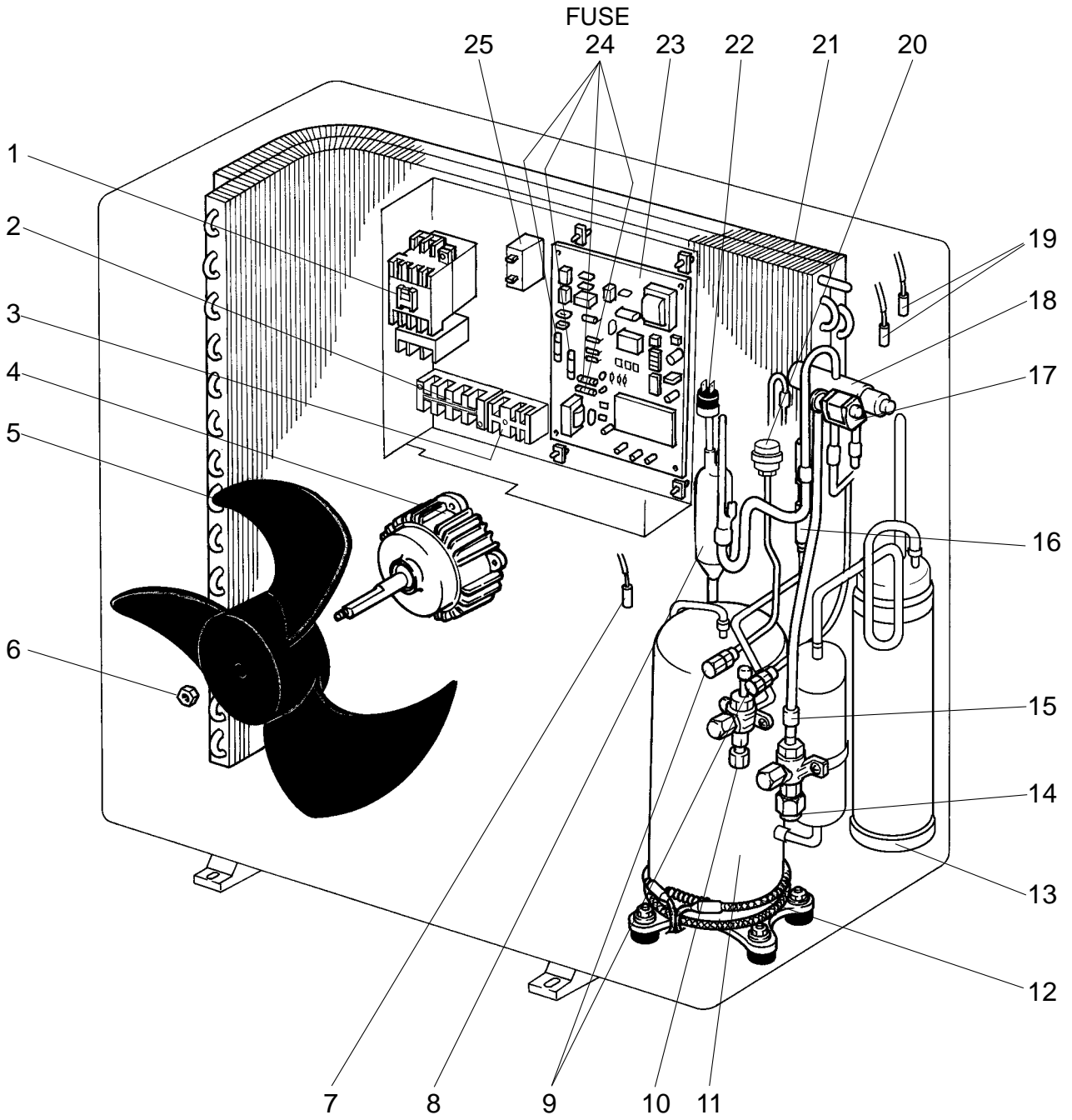
PU-P3VGAA.UK PU-P3VGAA₁.UK



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

No.	Part No.	Part Name	Specification	Q'ty/set				Remarks	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PUH-P3V		PU-P3V					Unit	Amount
				GAA.UK	GAA1.UK	GAA.UK	GAA1.UK					
1	S70 330 708	CONTACTOR	S-N18EX	1	1	1	1		52C			
2	S70 E03 716	TERMINAL BLOCK	2P(L,N)	1	1	1	1		TB1			
3	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB2			
4	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1	1	1		MF			
5	S70 30L 115	PROPELLER FAN 4		1	1	1	1					
6	S70 30L 097	NUT	M8	1	1	1	1					
7	S70 E16 202	THERMISTOR (DISCHARGE)		1	1	1	1		TH4			
8	S70 36L 467	MUFFLER		1	1							
9	S70 E00 413	CHARGE PLUG		2	2	2	2					
10	S70 300 418	STOP VALVE (LIQUID)	3/8"	1	1	1	1					
11	S70 068 400	COMPRESSOR	NE52VNJMT	1	1	1	1		MC			
12	S70 E04 236	CRANKCASE HEATER	240V / 38W	1	1	1	1		CH			
13	S70 E03 440	ACCUMULATOR		1	1	1	1					
14	S70 E04 411	BALL VALVE	5/8"	1	1	1	1					
15	S70 36L 450	STRAINER	#50-16	1	1	1	1					
16	S70 E03 405	FILTER DRYER		1		1						
17	S70 350 242	4-WAY VALVE SOLENOID COIL		1	1				21S4			
18	S70 A00 403	4-WAY VALVE (REVERSING)		1	1							
19	S70 E15 202	THERMISTOR (LIQUID, CONDENSER / EVAPORATOR)		1	1	1	1		TH3, TH6			
20	S70 E02 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
21	S70 E03 408	HEAT EXCHANGER		1	1	1	1					
22	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1	1	1		63H			
23	S70 31L 315	OUTDOOR CONTROLLER BOARD		1	1	1	1		O.B			
24	S70 520 239	FUSE	6.3A	4	4	4	4	(PART OF BOARD)	FUSE			
25	S70 30L 255	OUTDOOR FAN CAPACITOR	2.2 μ F \times 440V	1	1	1	1		C3			
26	S70 976 723	COMPRESSOR CAPACITOR	60 μ F \times 450V	1	1	1	1		C5			
27	S70 30L 450	STRAINER	#50-9.52	1		1						

FUNCTIONAL PARTS
PUH-P2YGAA.UK PUH-P2YGAA1.UK
PU-P2YGAA.UK PU-P2YGAA1.UK





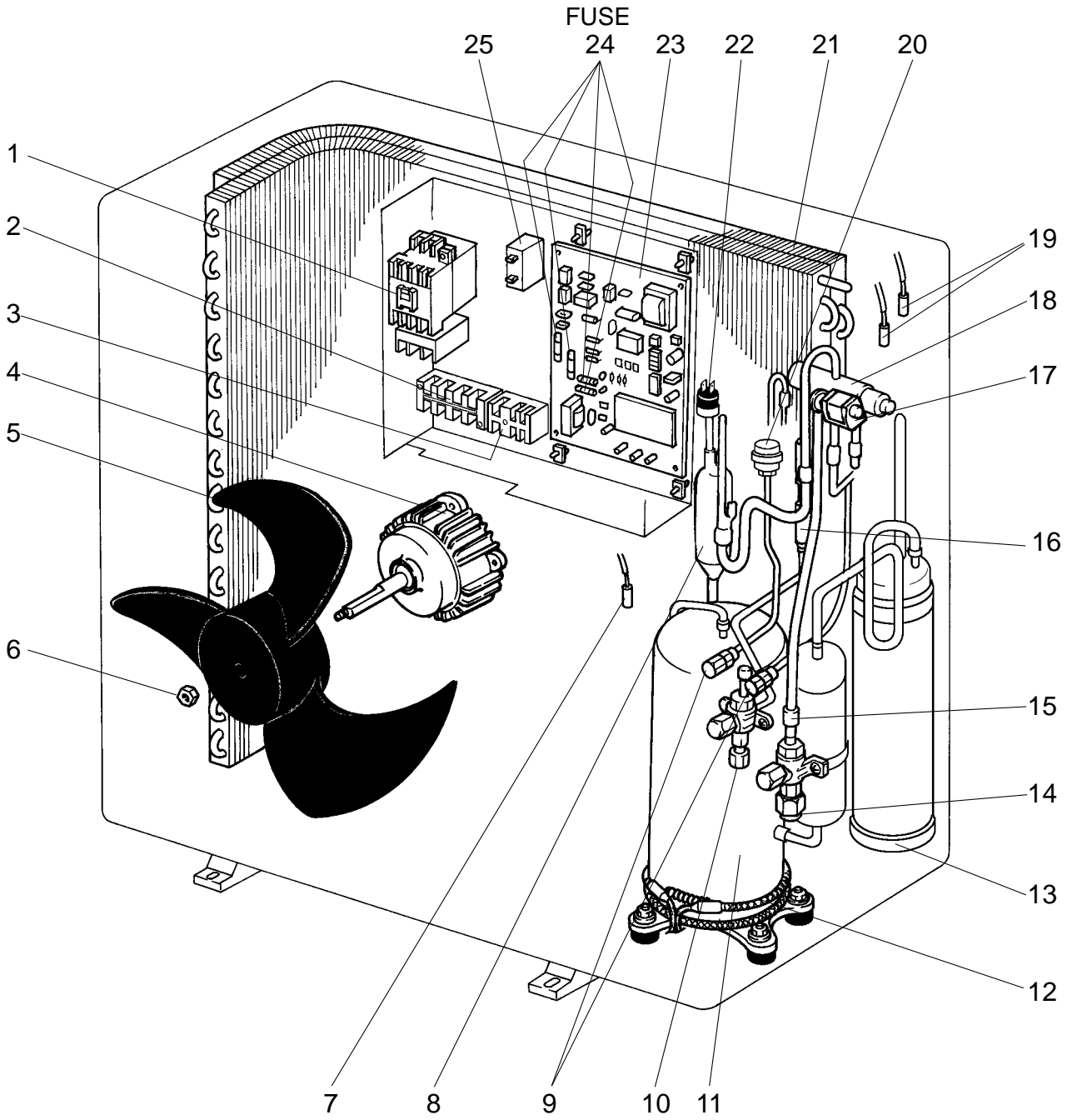
Part number that is circled is not shown in the figure.

No.	Part No.	Part Name	Specification	Q'ty/set				Remarks	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PUH-P2Y		PU-P2Y					Unit	Amount
				GAA.UK	GAA1.UK	GAA.UK	GAA1.UK					
1	S70 332 708	CONTACTOR	MSO-N11	1	1	1	1		51C,52C			
2	S70 E10 716	TERMINAL BLOCK	4P(L1,L2,L3,N)	1	1	1	1		TB1			
3	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB2			
4	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1	1	1		MF			
5	S70 30L 115	PROPELLER FAN 4		1	1	1	1					
6	S70 30L 097	NUT	M8	1	1	1	1					
7	S70 E16 202	THERMISTOR (DISCHARGE)		1	1	1	1		TH4			
8	S70 36L 467	MUFFLER		1	1							
9	S70 E00 413	CHARGE PLUG		2	2	2	2					
10	S70 300 418	STOP VALVE (LIQUID)	3/8"	1	1	1	1					
11	S70 065 400	COMPRESSOR	NE36YEKMT	1	1	1	1		MC			
12	S70 E04 236	CRANKCASE HEATER	240V 38W	1	1	1	1					
13	S70 E04 440	ACCUMULATOR		1	1	1	1					
14	S70 E04 411	BALL VALVE	5/8"	1	1	1	1		CH			
15	S70 36L 450	STRAINER	#50-16	1	1	1	1					
16	S70 E03 405	FILTER DRYER		1		1						
17	S70 350 242	4-WAY VALVE SOLENOID COIL		1	1				21S4			
18	S70 A00 403	4-WAY VALVE (REVERSING)		1	1							
19	S70 E15 202	THERMISTOR(LIQUID , CONDENSER / EVAPORATOR)		1	1	1	1		TH3, TH6			
20	S70 E02 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
21	S70 E02 408	HEAT EXCHANGER		1	1	1	1					
22	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1	1	1		63H			
23	S70 32L 315	OUTDOOR CONTROLLER BOARD		1	1	1	1		O.B			
24	S70 520 239	FUSE	6.3A	4	4	4	4	(PART OF BOARD)	FUSE			
25	S70 30L 255	OUTDOOR FAN CAPACITOR	2.2 μ F \times 440V	1	1	1	1		C3			
26	S70 30L 450	STRAINER	#50-9.52	1		1						

FUNCTIONAL PARTS

PUH-P2.5YGAA.UK PUH-P2.5YGAA₁.UK

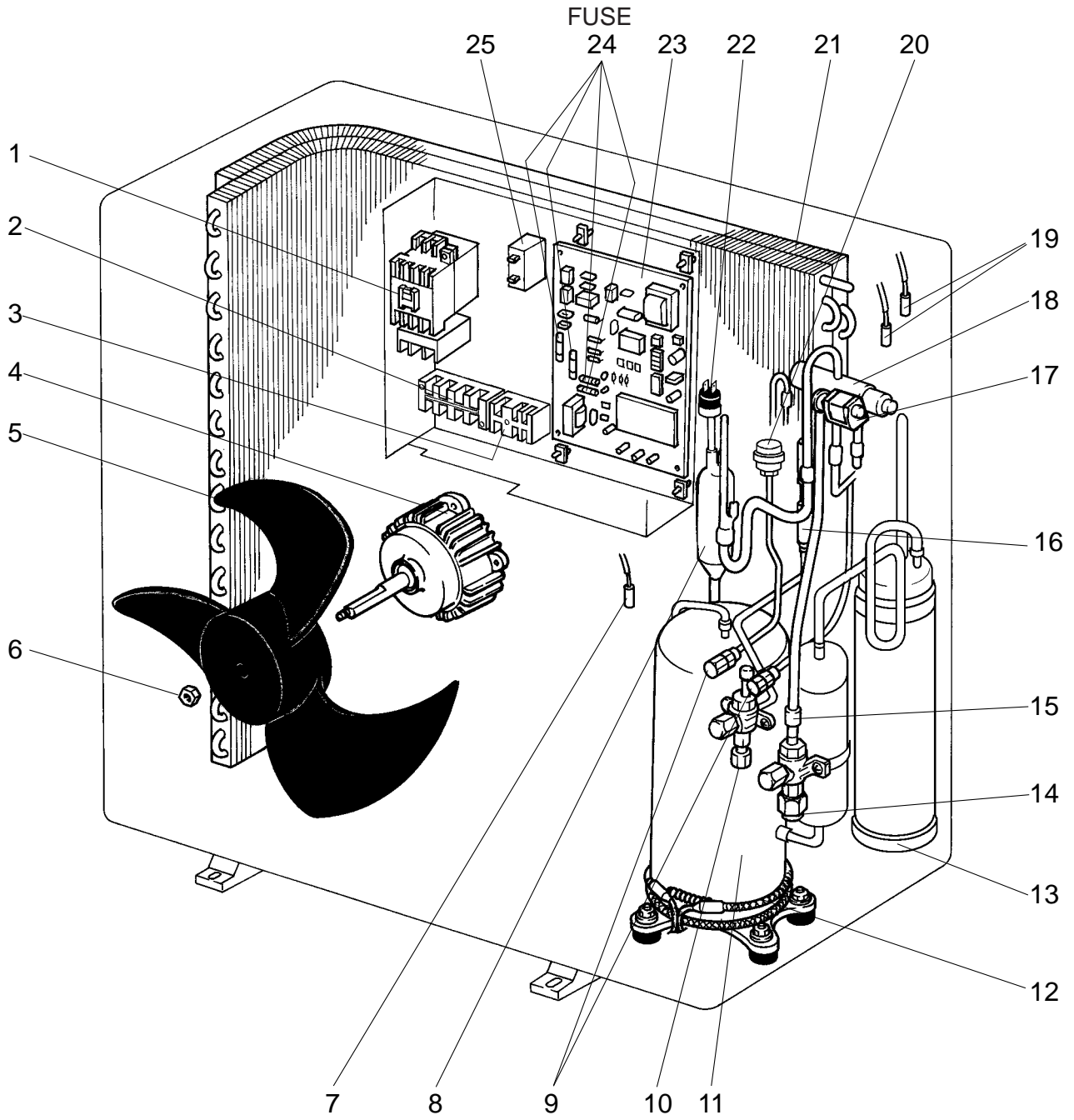
PU-P2.5YGAA.UK PU-P2.5YGAA₁.UK



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

No.	Part No.	Part Name	Specification	Q'ty/set				Remarks	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PUH-P2.5Y		PU-P2.5Y					Unit	Amount
				GAA.UK	GAA.UK	GAA.UK	GAA.UK					
1	S70 333 708	CONTACTOR	MSO-N11	1	1	1	1		51C,52C			
2	S70 E10 716	TERMINAL BLOCK	4P(L1,L2,L3,N)	1	1	1	1		TB1			
3	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB2			
4	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1	1	1		MF			
5	S70 30L 115	PROPELLER FAN 4		1	1	1	1					
6	S70 30L 097	NUT	M8	1	1	1	1					
7	S70 E16 202	THERMISTOR (DISCHARGE)		1	1	1	1		TH4			
8	S70 36L 467	MUFFLER		1	1							
9	S70 E00 413	CHARGE PLUG		2	2	2	2					
10	S70 300 418	STOP VALVE (LIQUID)	3/8"	1	1	1	1					
11	S70 067 400	COMPRESSOR	NE41YEKMT	1	1	1	1		MC			
12	S70 E04 236	CRANKCASE HEATER	240V / 38W	1	1	1	1					
13	S70 E03 440	ACCUMULATOR		1	1	1	1					
14	S70 E04 411	BALL VALVE	5/8"	1	1	1	1		CH			
15	S70 36L 450	STRAINER	#50-16	1	1	1	1					
16	S70 E03 405	FILTER DRYER		1		1						
17	S70 350 242	4-WAY VALVE SOLENOID COIL		1	1				21S4			
18	S70 A00 403	4-WAY VALVE (REVERSING)		1	1							
19	S70 E15 202	THERMISTOR(LIQUID , CONDENSER / EVAPORATOR)		1	1	1	1		TH3, TH6			
20	S70 E02 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
21	S70 E01 408	HEAT EXCHANGER		1	1	1	1					
22	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1	1	1		63H			
23	S70 32L 315	OUTDOOR CONTROLLER BOARD		1	1	1	1		O.B			
24	S70 520 239	FUSE	6.3A	4	4	4	4	(PART OF BOARD)	FUSE			
25	S70 30L 255	OUTDOOR FAN CAPACITOR	2.2 μ F \times 440V	1	1	1	1		C3			
26	S70 30L 450	STRAINER	#50-9.52	1		1						

FUNCTIONAL PARTS
PUH-P3YGAA.UK PUH-P3YGAA₁.UK
PU-P3YGAA.UK PU-P3YGAA₁.UK



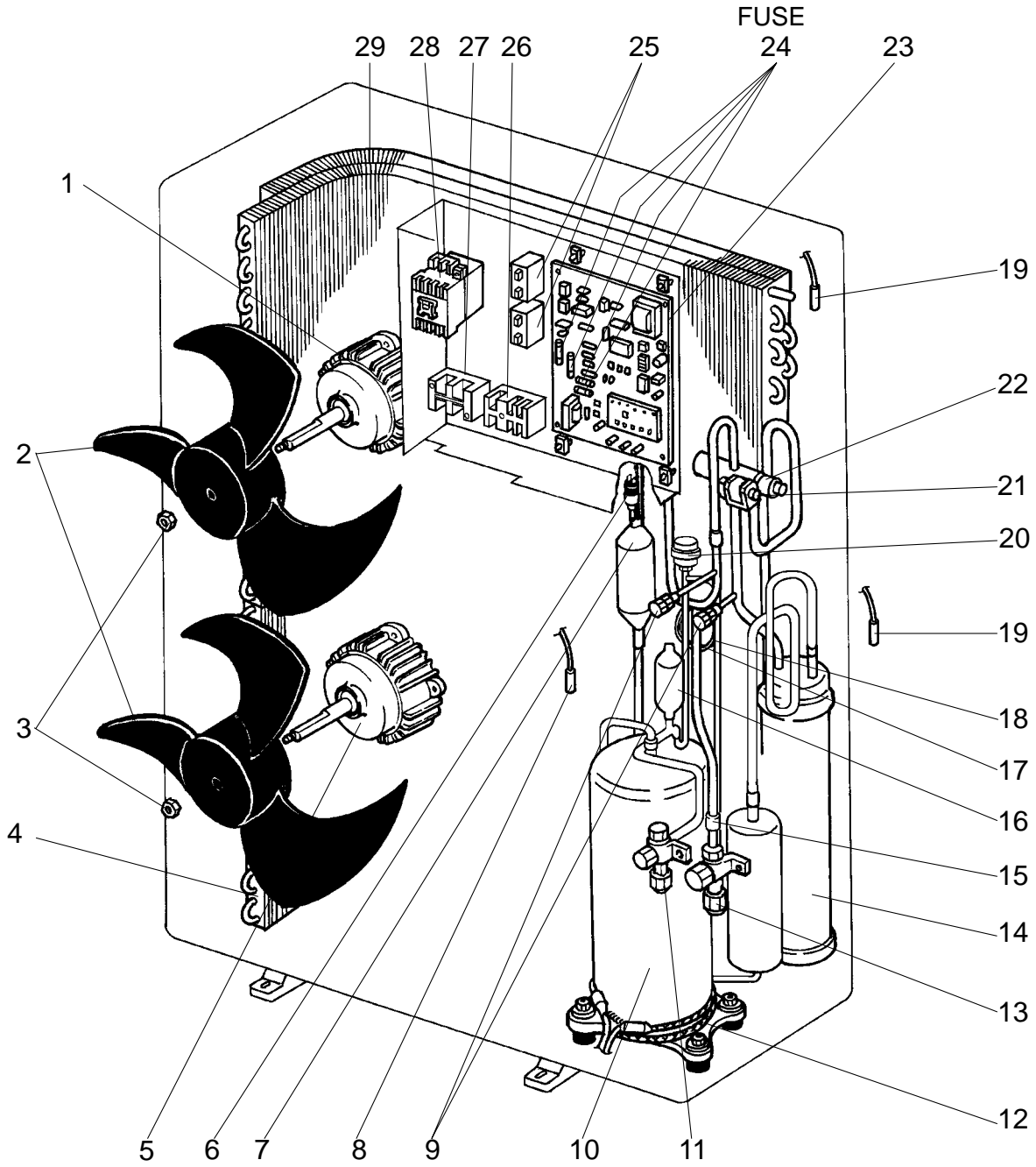
Part number that is circled is not shown in the figure.

No.	Part No.	Part Name	Specification	Q'ty/set				Remarks	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PUH-P3Y		PU-P3Y					Unit	Amount
				GAA.UK	GAAr.UK	GAA.UK	GAAr.UK					
1	S70 331 708	CONTACTOR	MSO-N11	1	1	1	1		51C,52C			
2	S70 E10 716	TERMINAL BLOCK	4P(L1,L2,L3,N)	1	1	1	1		TB1			
3	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB2			
4	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1	1	1		MF			
5	S70 30L 115	PROPELLER FAN 4		1	1	1	1					
6	S70 30L 097	NUT	M8	1	1	1	1					
7	S70 E16 202	THERMISTOR (DISCHARGE)		1	1	1	1		TH4			
8	S70 36L 467	MUFFLER		1	1							
9	S70 E00 413	CHARGE PLUG		2	2	2	2					
10	S70 300 418	STOP VALVE (LIQUID)	3/8"	1	1	1	1					
11	S70 069 400	COMPRESSOR	NE52YDKMT	1	1	1	1		MC			
12	S70 E04 236	CRANKCASE HEATER	240V / 38W	1	1	1	1					
13	S70 E03 440	ACCUMULATOR		1	1	1	1					
14	S70 E04 411	BALL VALVE	5/8"	1	1	1	1		CH			
15	S70 36L 450	STRAINER	#50-16	1	1	1	1					
16	S70 E03 405	FILTER DRYER		1		1						
17	S70 350 242	4-WAY VALVE SOLENOID COIL		1	1				21S4			
18	S70 A00 403	4-WAY VALVE (REVERSING)		1	1							
19	S70 E15 202	THERMISTOR(LIQUID , CONDENSER / EVAPORATOR)		1	1	1	1		TH3, TH6			
20	S70 E02 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
21	S70 E03 408	HEAT EXCHANGER		1	1	1	1					
22	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1	1	1		63H			
23	S70 32L 315	OUTDOOR CONTROLLER BOARD		1	1	1	1		O.B			
24	S70 520 239	FUSE	6.3A	4	4	4	4	(PART OF BOARD)	FUSE			
25	S70 30L 255	OUTDOOR FAN CAPACITOR	2.2 μ F \times 440V	1	1	1	1		C3			
26	S70 30L 450	STRAINER	#50-9.52	1		1						

FUNCTIONAL PARTS

PUH-P4VGAA.UK PUH-P4VGAA₁.UK

PU-P4VGAA.UK PU-P4VGAA₁.UK



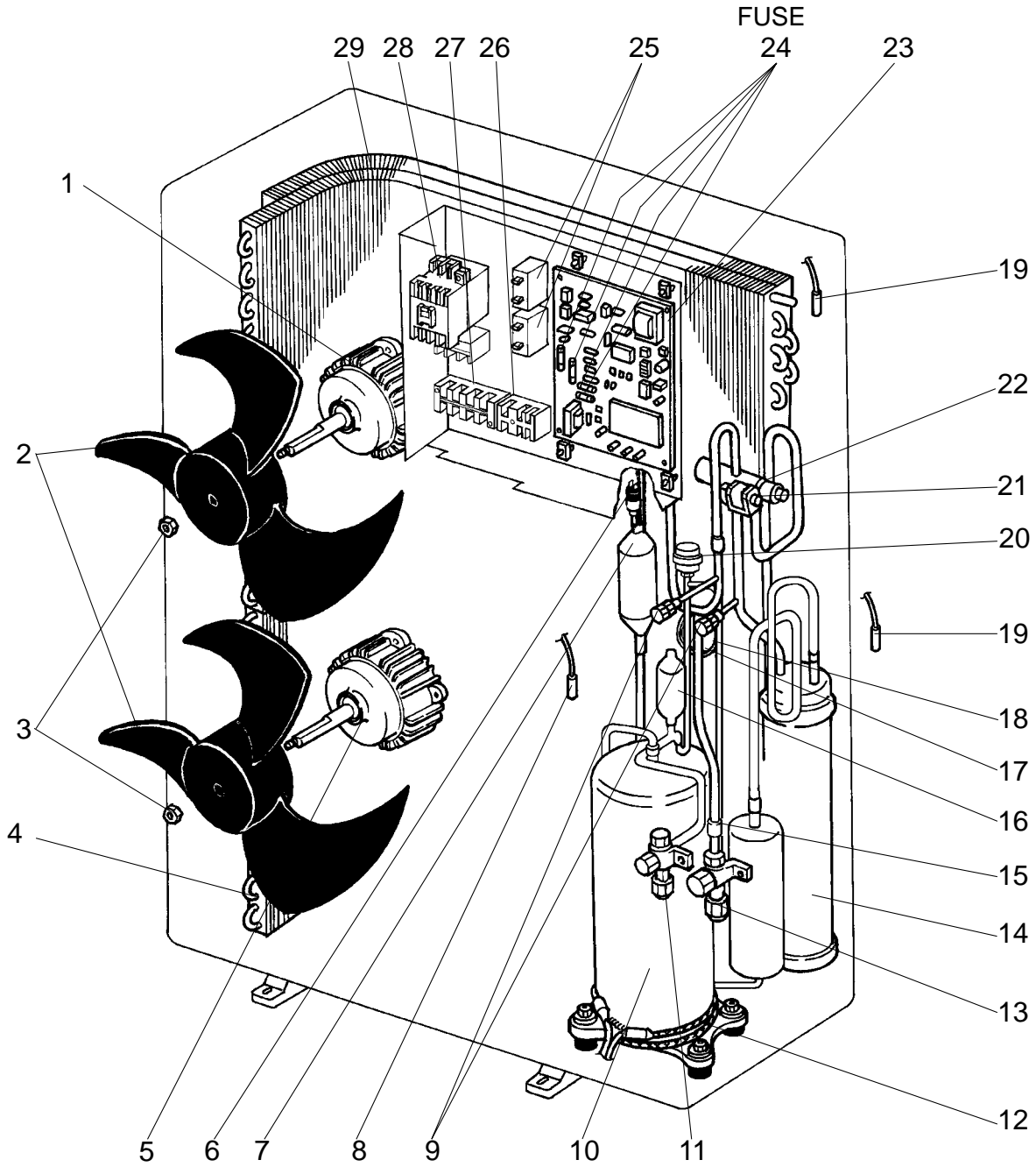
Part number that is circled is not shown in the figure.

No.	Part No.	Part Name	Specification	Q'ty/set				Remarks	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PUH-P4V		PU-P4V					Unit	Amount
				GAA.UK	GAA1.UK	GAA.UK	GAA1.UK					
1	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1	1	1		MF			
2	S70 30L 115	PROPELLER FAN 4		2	2	2	2					
3	S70 30L 097	NUT	M8	2	2	2	2					
4	S70 E05 408	HEAT EXCHANGER		1	1	1	1					
5	S70 E04 763	OUTDOOR FAN MOTOR	N02A672MT	1	1	1	1		MF			
6	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1	1	1		63H			
7	S70 42L 467	MUFFLER		1	1							
8	S70 E18 202	THERMISTOR (DISCHARGE)		1	1	1	1		TH4			
9	S70 E00 413	CHARGE PLUG		2	2	2	2					
10	S70 071 400	COMPRESSOR	NE56VNJMT	1	1	1	1		MC			
11	S70 300 418	STOP VALVE (LIQUID)	3/8"	1	1	1	1					
12	S70 E05 236	CRANKCASE HEATER	240V / 38W	1	1	1	1		CH			
13	S70 E05 411	BALL VALVE	3/4"	1	1	1	1					
14	S70 E05 440	ACCUMULATOR		1	1	1	1					
15	S70 42L 450	STRAINER	#50-19.1	1	1	1	1					
16	S70 E03 405	FILTER DRYER		1		1						
17	S70 E01 425	CAPILLARY TUBE	φ4.0 X φ3.0 X 350mm	1	1	1	1					
18	S70 E02 425	CAPILLARY TUBE	φ4.0 X φ3.0 X 350mm	1	1	1	1					
19	S70 E14 202	THERMISTOR(LIQUID, CONDENSER / EVAPORATOR)		1	1	1	1		TH3, TH6			
20	S70 E05 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
21	S70 350 242	4-WAY VALVE SOLENOID COIL		1	1				21S4			
22	S70 260 403	4-WAY VALVE (REVERSING)		1	1							
23	S70 31L 315	OUTDOOR CONTROLLER BOARD		1	1	1	1		O.B			
24	S70 520 239	FUSE	6.3A	4	4	4	4	(PART OF BOARD)	FUSE			
25	S70 30L 255	OUTDOOR FAN CAPACITOR	2.2μF X 440V	2	2	2	2		C3, C4			
26	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB2			
27	S70 E03 716	TERMINAL BLOCK	2P(L,N)	1	1	1	1		TB1			
28	S70 330 708	CONTACTOR	S-N18EX	1	1	1	1		52C			
29	S70 E04 408	HEAT EXCHANGER		1	1	1	1					
30	S70 30L 450	STRAINER	#50-9.52	1		1						
31	S70 976 723	COMPRESSOR CAPACITOR	60μF X 450V	1		1			C5			

FUNCTIONAL PARTS

PUH-P4YGAA.UK PUH-P4YGAA₁.UK

PU-P4YGAA.UK PU-P4YGAA₁.UK



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

No.	Part No.	Part Name	Specification	Q'ty/set				Remarks	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PUH-P4Y		PU-P4Y					Unit	Amount
				GAA.UK	GAA1.UK	GAA.UK	GAA1.UK					
1	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1	1	1		MF			
2	S70 30L 115	PROPELLER FAN 4		2	2	2	2					
3	S70 30L 097	NUT	M8	2	2	2	2					
4	S70 E05 408	HEAT EXCHANGER		1	1	1	1					
5	S70 E04 763	OUTDOOR FAN MOTOR	N02A672MT	1	1	1	1		MF			
6	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1	1	1		63H			
7	S70 42L 467	MUFFLER		1	1							
8	S70 E18 202	THERMISTOR (DISCHARGE)		1	1	1	1		TH4			
9	S70 E00 413	CHARGE PLUG		2	2	2	2					
10	S70 070 400	COMPRESSOR	NE56YDKMT	1	1	1	1		MC			
11	S70 300 418	STOP VALVE (LIQUID)	3/8"	1	1	1	1					
12	S70 E05 236	CRANKCASE HEATER	240V / 38W	1	1	1	1		CH			
13	S70 E05 411	BALL VALVE	3/4"	1	1	1	1					
14	S70 E05 440	ACCUMULATOR		1	1	1	1					
15	S70 42L 450	STRAINER	#50-19.1	1	1	1	1					
16	S70 E03 405	FILTER DRYER		1		1						
17	S70 E01 425	CAPILLARY TUBE	$\phi 4.0 \times \phi 3.0 \times 350\text{mm}$	1	1	1	1					
18	S70 E02 425	CAPILLARY TUBE	$\phi 4.0 \times \phi 3.0 \times 350\text{mm}$	1	1	1	1					
19	S70 E14 202	THERMISTOR (LIQUID, CONDENSER / EVAPORATOR)		1	1	1	1		TH3, TH6			
20	S70 E05 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
21	S70 350 242	4-WAY VALVE SOLENOID COIL		1	1				21S4			
22	S70 260 403	4-WAY VALVE (REVERSING)		1	1							
23	S70 32L 315	OUTDOOR CONTROLLER BOARD		1	1	1	1		O.B			
24	S70 520 239	FUSE	6.3A	4	4	4	4	(PART OF BOARD)	FUSE			
25	S70 30L 255	OUTDOOR FAN CAPACITOR	$2.2\mu\text{F} \times 440\text{V}$	2	2	2	2		C3, C4			
26	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB2			
27	S70 E10 716	TERMINAL BLOCK	4P(L1,L2,L3,N)	1	1	1	1		TB1			
28	S70 331 708	CONTACTOR	MSO-N11	1	1	1	1		51C, 52C			
29	S70 E04 408	HEAT EXCHANGER		1	1	1	1					
30	S70 30L 450	STRAINER	#50-9.52	1		1						

FUNCTIONAL PARTS

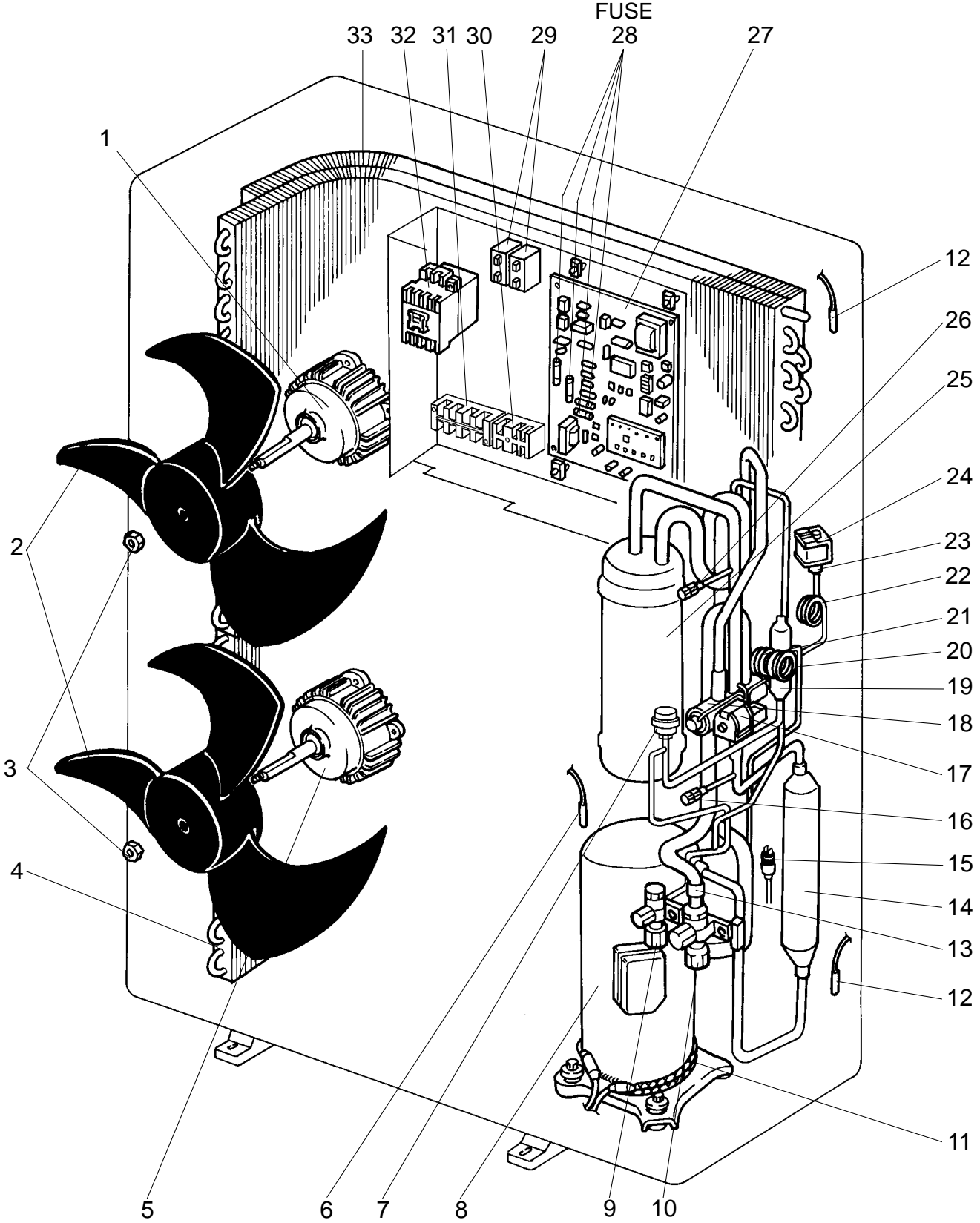
PUH-P5YGAA.UK

PUH-P5YGAA₁.UK

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FUSE





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

No.	Part No.	Part Name	Specification	Q'ty/set				Remarks	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PUH-P5Y		PU-P5Y					Unit	Amount
				GAA.UK	GAA.UK	GAA.UK	GAA.UK					
1	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1	1	1		MF			
2	S70 30L 115	PROPELLER FAN 4		2	2	2	2					
3	S70 30L 097	NUT	M8	2	2	2	2					
4	S70 E07 408	HEAT EXCHANGER		1	1	1	1					
5	S70 E04 763	OUTDOOR FAN MOTOR	N02A672MT	1	1	1	1		MF			
6	S70 E19 202	THERMISTOR (DISCHARGE)		1	1	1	1		TH4			
7	S70 E06 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
※ 8	S70 080 400	COMPRESSOR (WITH CONVERSION KIT)	ZR61KCW-TFD-522	1	1	1	1		MC			
9	S70 300 418	STOP VALVE (LIQUID)	3/8"	1	1	1	1					
10	S70 E05 411	BALL VALVE	3/4"	1	1	1	1					
11	S70 E01 236	CRANKCASE HEATER	240V / 38W	1	1	1	1		CH			
12	S70 E17 202	THERMISTOR (LIQUID, CONDENSER / EVAPORATOR)		1	1	1	1		TH3, TH6			
13	S70 42L 450	STRAINER	#50-19.1	1	1	1	1					
14	S70 42L 467	MUFFLER		1	1							
15	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1	1	1		63H			
16	S70 E01 413	CHARGE PLUG		1	1	1	1					
17	S70 251 242	4-WAY VALVE SOLENOID COIL		1	1				21S4			
18	S70 E02 403	4-WAY VALVE (REVERSING)		1	1							
19	S70 E03 405	FILTER DRYER		1	1	1	1					
20	S70 E05 425	CAPILLARY TUBE	φ4.0 × φ3.0 × 200mm	1	1	1	1					
21	S70 E06 425	CAPILLARY TUBE	φ4.0 × φ3.0 × 200mm	1	1	1	1					
22	S70 E03 425	CAPILLARY TUBE	φ4.0 × φ2.0 × 400mm	1	1							
23	S70 A14 428	BYPASS VALVE		1	1							
24	S70 351 242	BYPASS VALVE SOLENOID COIL		1	1				SV			
25	S70 E06 440	ACCUMULATOR		1	1	1	1					
26	S70 E00 413	CHARGE PLUG		1	1	1	1					
27	S70 32L 315	OUTDOOR CONTROLLER BOARD		1	1	1	1		O.B			
28	S70 520 239	FUSE	6.3A	4	4	4	4	(PART OF BOARD)	FUSE			
29	S70 17T 255	FAN MOTOR CAPACITOR	3.5μF × 440V	2	2	2	2		C3, C4			
30	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB2			
31	S70 E10 716	TERMINAL BLOCK	4P(L1,L2,L3,N)	1	1	1	1		TB1			
32	S70 334 708	CONTACTOR	MSO-N20	1	1	1	1		51C, 52C			
33	S70 E06 408	HEAT EXCHANGER		1	1	1	1					
③④	S70 30L 450	STRAINER	#50-9.52	1	1	1	1					
③⑤	S70 516 495	ACOCSTIC COMPRESSOR CAP		1	1	1	1					
③⑥	S70 516 496	ACOCSTIC COMPRESSOR BASE		1	1	1	1					
③⑦	S70 516 497	ACOCSTIC COMPRESSOR JACKET		1	1	1	1					

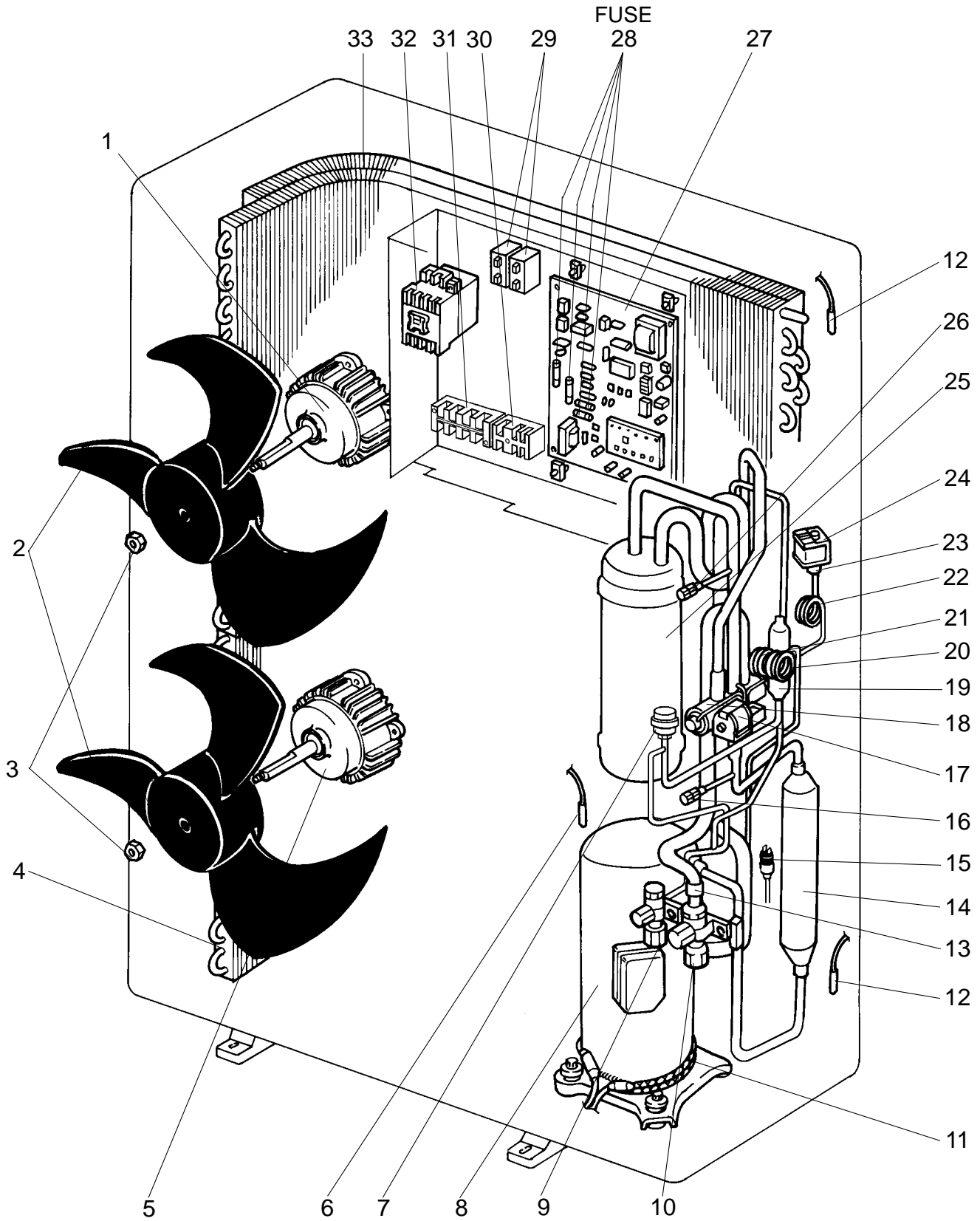
※ COMPRESSOR COVERION KIT (TFD-230) is packaged with compressor ZR61KCE-TFD-522 which Parts No. is S70 080 400.

COMPRESSOR CONVERSION KIT (TFD-230) is necessary only for replacing faston type COMPRESSOR ZR61KCE-TFD-230 with screw type COMPRESSOR ZR61KCW-TFD-522.

FUNCTIONAL PARTS

PUH-P6YGAA.UK PUH-P6YGAA₁.UK

PU-P6YGAA.UK PU-P6YGAA₁.UK



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

No.	Part No.	Part Name	Specification	Q'ty/set				Remarks	Wiring Diagram Symbol	Recommended Q'ty	Price	
				PUH-P6Y		PU-P6Y					Unit	Amount
				GAA.UK	GAA:UK	GAA.UK	GAA:UK					
1	S70 E03 763	OUTDOOR FAN MOTOR	N026P72MT	1	1	1	1		MF			
2	S70 30L 115	PROPELLER FAN 4		2	2	2	2					
3	S70 30L 097	NUT	M8	2	2	2	2					
4	S70 E07 408	HEAT EXCHANGER		1	1	1	1					
5	S70 E04 763	OUTDOOR FAN MOTOR	N02A672MT	1	1	1	1		MF			
6	S70 E19 202	THERMISTOR (DISCHARGE)		1	1	1	1		TH4			
7	S70 E06 401	LINEAR EXPANSION VALVE		1	1	1	1		LEV			
8	S70 081 400	COMPRESSOR	ZR72KCW-TFD-522	1	1	1	1		MC			
9	S70 300 418	STOP VALVE (LIQUID)	3/8"	1	1	1	1					
10	S70 E05 411	BALL VALVE	3/4"	1	1	1	1					
11	S70 E01 236	CRANKCASE HEATER	240V / 38W	1	1	1	1		CH			
12	S70 E17 202	THERMISTOR (LIQUID , CONDENSER / EVAPORATOR)		1	1	1	1		TH3, TH6			
13	S70 42L 450	STRAINER	#50-19.1	1	1	1	1					
14	S70 42L 467	MUFFLER		1	1							
15	S70 E00 208	HIGH PRESSURE SWITCH	OFF:3.3MPa ON:2.6MPa	1	1	1	1		63H			
16	S70 E01 413	CHARGE PLUG		1	1	1	1					
17	S70 251 242	4-WAY VALVE SOLENOID COIL		1	1				21S4			
18	S70 E02 403	4-WAY VALVE (REVERSING)		1	1							
19	S70 E03 405	FILTER DRYER		1	1	1	1					
20	S70 E05 425	CAPILLARY TUBE	φ4.0 X φ3.0 X 200mm	1	1	1	1					
21	S70 E06 425	CAPILLARY TUBE	φ4.0 X φ3.0 X 200mm	1	1	1	1					
22	S70 E04 425	CAPILLARY TUBE	φ4.0 X φ3.0 X 450mm	1	1							
23	S70 A14 428	BYPASS VALVE		1	1							
24	S70 351 242	BYPASS VALVE SOLENOID COIL		1	1				SV			
25	S70 E06 440	ACCUMULATOR		1	1	1	1					
26	S70 E00 413	CHARGE PLUG		1	1	1	1					
27	S70 32L 315	OUTDOOR CONTROLLER BOARD		1	1	1	1		O.B			
28	S70 520 239	FUSE	6.3A	4	4	4	4	(PART OF BOARD)	FUSE			
29	S70 17T 255	FAN MOTOR CAPACITOR	3.5μF X 440V	2	2	2	2		C3, C4			
30	S70 E04 716	TERMINAL BLOCK	3P(S1,S2,S3)	1	1	1	1		TB2			
31	S70 E10 716	TERMINAL BLOCK	4P(L1,L2,L3,N)	1	1	1	1		TB1			
32	S70 334 708	CONTACTOR	MSO-N20	1	1	1	1		51C, 52C			
33	S70 E06 408	HEAT EXCHANGER		1	1	1	1					
34	S70 30L 450	STRAINER	#50-9.52	1	1	1	1					
35	S70 516 495	ACOCSTIC COMPRESSOR CAP		1	1	1	1					
36	S70 516 496	ACOCSTIC COMPRESSOR BASE		1	1	1	1					
37	S70 516 497	ACOCSTIC COMPRESSOR JACKET		1	1	1	1					

1. Drain Socket

Part No.	PAC-SF37DS-E
Applied models	PU(H)-P • GAA

2. Air Outlet Guide

Part No.	PAC-SF08SG-E
Applied models	PU(H)-P • GAA

※ PU(H)-P4/P5/P6 • GAA needs two piece.

3. Drain Pan

Part No.	PAC-SF16DP-E	PAC-SF17DP-E
Applied models	PU(H)-P1 ~ 4 • GAA	PU(H)-P5/6YGAA

4. A / M-NET Adapter

Part No.	PAC-SF48MA-E
Applied models	PU(H)-P • GAA