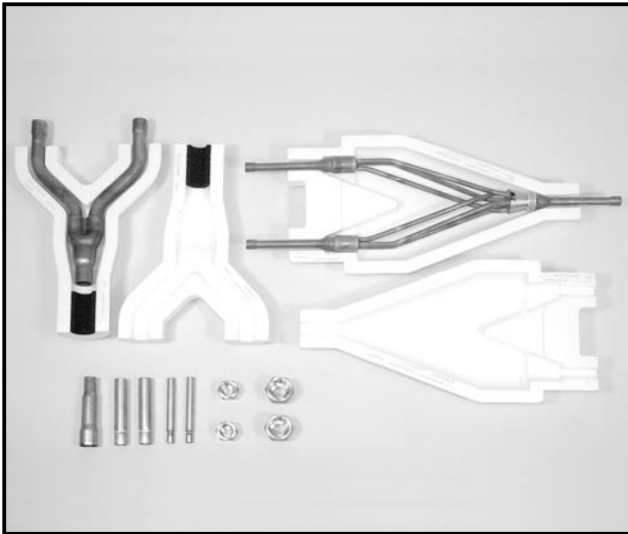


Photo



Descriptions

Branch pipe for Multi-System Twin type Twin use. (50:50)

Applicable Models

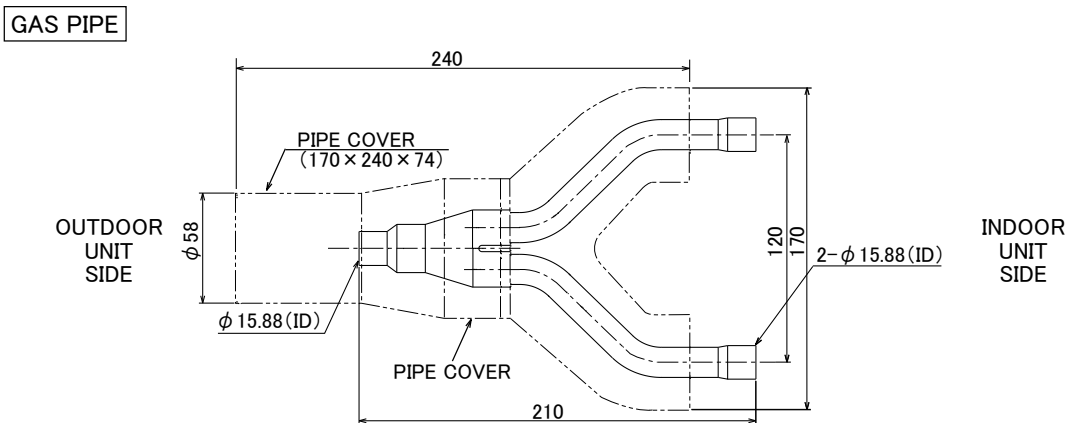
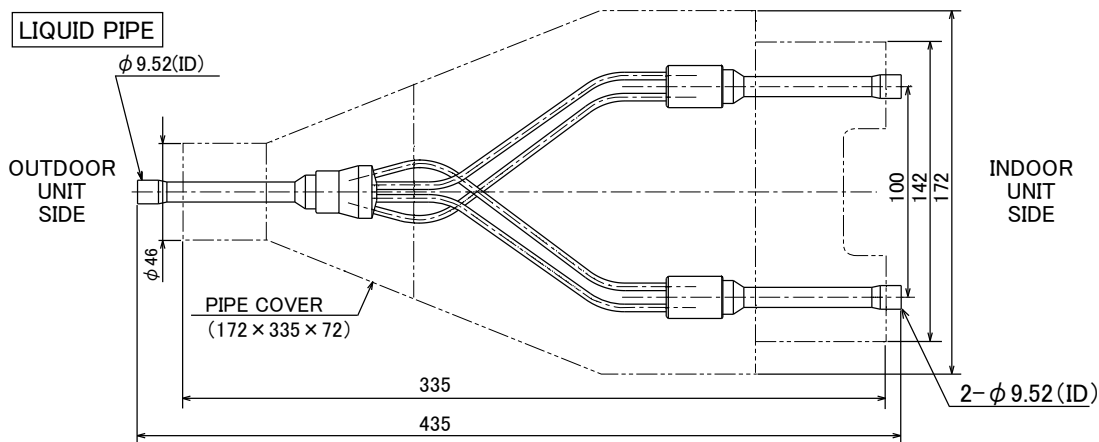
- PU-P71/100/125/140
 - PUH-P71/100/125/140
 - PUHZ-RP71/100/125/140
- for Twin 50:50 use

Specifications

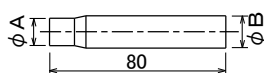
Main body	Distribution ratio	Outdoor unit capacity is divided into two (50:50)
	Number of distribution pipes	1 each for liquid pipe and gas pipe
	Pipe material	Phosphate deoxidized copper C1220T-OL (JIS H3300)
Accessory	Pipe cover	Styrofoam molding (1 each for liquid pipe and gas pipe)
	Joint	5 joints (3 types)

Dimensions

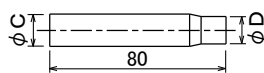
Unit : mm



JOINT(Accessory)



Φ A(ID)	Φ B(OD)	Amount
6.35	9.52	2
12.7	15.88	2



Φ C(ID)	Φ D(OD)	Amount
19.05	15.88	1

How to Use / How to Install

Package Air-conditioner Optional Parts Instruction Sheet for Simultaneous Twin Distributing Pipe

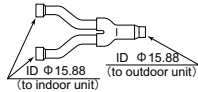
Make sure that you have all the following parts before installation.

① Instruction sheet This sheet 1 sheet	② Gas pipe 1pc	③ Liquid pipe 1pc	④ Pipe cover (for gas pipe) 1pc	⑤ Pipe cover (for liquid pipe) 1pc	⑥ Joint pipe φ9.52 → φ6.35... 2pcs φ15.88 → φ12.7... 2pcs φ15.88 → φ19.05... 1pcs	Flare nut 1/4F... 2pcs 1/2F... 2pcs For R410A indoor unit.
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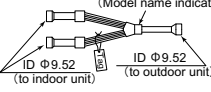
● See the following for the specifications of gas pipe ②, and liquid pipe ③,

■ MSDD-50SR

② Gas pipe



③ Liquid pipe



(Model name indication) ※ Procure the following at local site in addition to the above

- Tape for heat insulator sealing
- Extended pipe for refrigerant pipe

Pipe size and limit to refrigerant pipe

Outdoor unit capacity	Pipe size (mm)				Actual pipe length (m)			Height Difference (m)		Note 1 Number of bends
	Gas pipe side		Liquid pipe side		Indoor-Outdoor	A+B+C=	Indoor-Outdoor	Indoor-Outdoor	Indoor-Outdoor	
	Outdoor unit side	Indoor unit side	Outdoor unit side	Indoor unit side						
71(3Hp)	φ15.88 (5/8)				—	50m or less		H =	h =	15 or less
100~140 (4~6Hp)	φ19.05 (3/4)	φ15.88 (5/8)	φ9.52 (3/8)	φ9.52 (3/8)	A+B =	70m or less	B-C =	40m or less	1m or less	
200(8Hp)	φ25.4 (1)	φ19.05 (3/4)	φ12.7 (1/2)		A+C =					
250(10Hp)	φ28.6 (1-1/8)	φ19.05 (3/4)	φ12.7 (1/2)		50m or less					

■ For R410A Power Inverter models

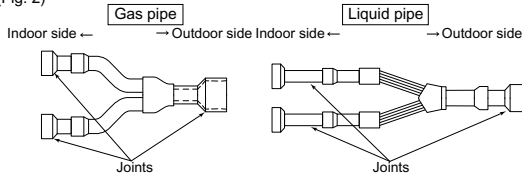
Outdoor unit capacity	Pipe size (mm)				Actual pipe length (m)			Height Difference (m)		Note 1 Number of bends
	Gas pipe side		Liquid pipe side		Indoor-Outdoor	A+B+C=	Indoor-Outdoor	Indoor-Outdoor	Indoor-Outdoor	
	Outdoor unit side	Indoor unit side	Outdoor unit side	Indoor unit side						
71(3Hp)	φ15.88 (5/8)	RP1.6, 2, 35, 50	φ9.52 (3/8)	RP1.6, 2, 35, 50	—	50m or less	B-C =	H =	h =	15 or less
100~140 (4~6Hp)	φ19.05 (3/4)	φ12.7 (1/2)	φ9.52 (3/8)	φ6.35 (1/4)	A+B =	75m or less				
200(8Hp)	φ25.4 (1)	φ19.05 (3/4)	φ12.7 (1/2)	φ9.52 (3/8)	A+C =					
250(10Hp)	φ28.6 (1-1/8)	φ19.05 (3/4)	φ12.7 (1/2)	φ9.52 (3/8)	80m or less					

Note 1: Limit the number of bends for refrigerant pipes to 8 in each of the (A+B) and (A+C) ranges.
 ※ See the installation manual provided with the main unit for details on chargeless pipe length and refrigerant additional charge amount.

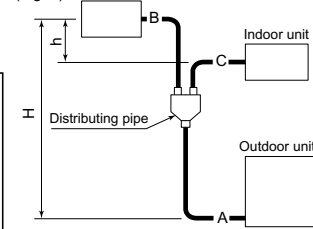
Pipe connections

Combination pattern of indoor and outdoor units and joints to be used:

(Fig. 2)



(Fig. 1)



1. Perform work, taking care with the followings:

- Be sure to check the combination pattern of indoor and outdoor units and joints to be used (Table 2).
- Be sure to observe the limits to refrigerant pipe length and number of bends (Table 1).
- Insert the refrigerant pipe (procured at local site) and joint ⑥ into the expanded pipe portions of distributing pipe (this product) until they stop, and then connect them using anti-oxidation soldering.
- There is no restriction on the orientation of distributing pipe (this product) during installation.
- Take care that no foreign object, such as dust, enters during pipe connecting work.
- Remove the tag of liquid pipe ③ after checking it.

2. Pipe connections

- The provided joints ⑥ will be necessary depending on the capability of model used: See (Table 2), and connect the joints as shown in (Fig. 2).
- Do not bend or widen the distributing pipe (liquid pipe).

■ For R407C fixed speed

(Table 2-1)

Outdoor unit	Indoor unit	Joint to be used
71(3Hp)	35+35 (1.6+1.6)	No joint is necessary.
100(4Hp)	50+50 (2+2)	
125(5Hp)	60+60 (2.5+2.5)	Outer φ15.88—inner φ19.05 [outdoor gas pipe side]
140(6Hp)	71+71 (3+3)	
200(8Hp)	100+100 (4+4)	Outer φ15.88—inner φ19.05 [indoor gas pipe side]
250(10Hp)	125+125 (5+5)	Outer φ25.4—inner φ28.6 [outdoor gas pipe side]

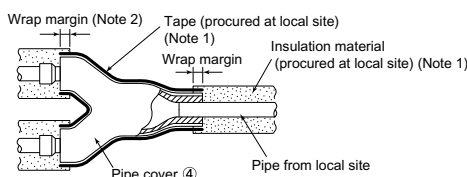
※ Installation positions in brackets () .

■ For R410A Power Inverter

(Table 2-2)

Outdoor unit	Indoor unit	Joint to be used
71(3Hp)	35+35 (1.6+1.6)	Outer φ15.88—inner φ12.7 [outdoor gas pipe side]
100(4Hp)	50+50 (2+2)	Outer φ9.52—inner φ6.35 [indoor liquid pipe side]
125(5Hp)	60+60 (2.5+2.5)	No joint is necessary.
140(6Hp)	71+71 (3+3)	
200(8Hp)	100+100 (4+4)	Outer φ12.7—inner φ9.52 [outdoor liquid pipe side]
250(10Hp)	125+125 (5+5)	Outer φ25.4—inner φ28.6 [outdoor gas pipe side]

Heat insulation work



Notes:

1. Cover the entire refrigerant pipe (procured at local site) with heat insulation material. When using generally available heat insulation material, heat-resistant insulation material (at least 12 mm thick).
 Pipe covers ④ and ⑤ will shrink slightly at high temperatures: Provide wrap margins with insulation

- Fit gas pipe ② into pipe covers ④, and then seal the mated portion of pipe covers ④ using heat insulation seal tape (procured at local site).
- Process liquid pipe ③ in the same way.

Please install contents other than this description on the main part of a product with an attached installation description, and use them as it.