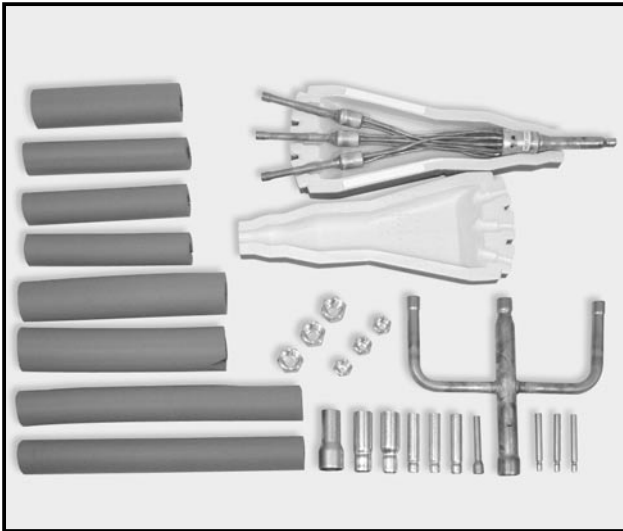


Photo



Descriptions

3-branch pipe for Multi-System Triple use.(33:33:33)

Applicable Models

- PU-P140/200/250
 - PUH-P140/200/250
 - PUHZ-RP140/200/250
- for 33:33:33 Triple use

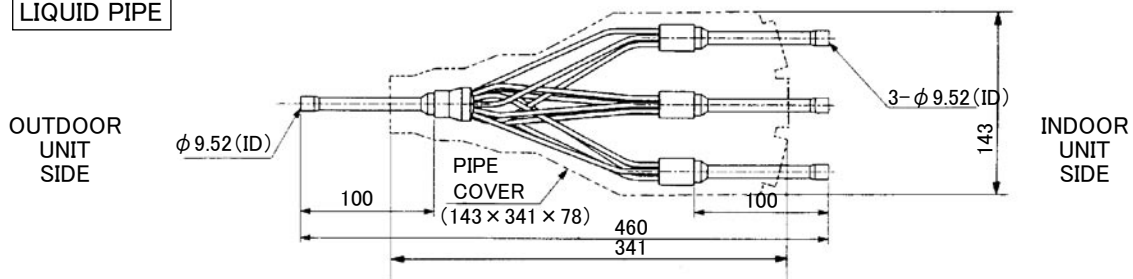
Specifications

Main body	Distribution ratio	Outdoor unit capacity is divided into three (33:33:33)
	Number of distribution pipes	1 each for liquid pipe and gas pipe
	Pipe material	Phosphate deoxidized copper C1220T-OL (JIS H3300)
Accessory	Pipe cover	Polyethylene foam molding (for liquid pipe) EPT sponge rubber type (for gas pipe)
	Joint	9 joints (5 types)

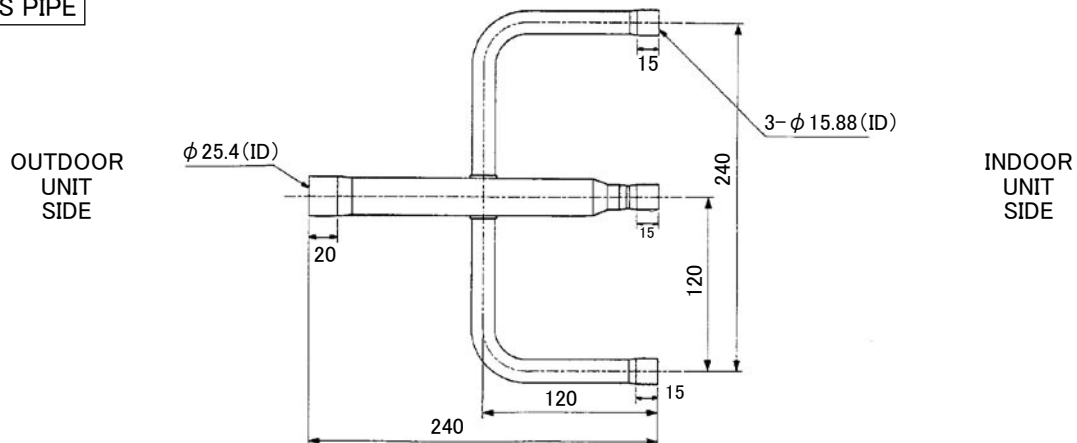
Dimensions

Unit : mm

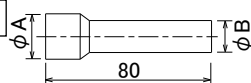
LIQUID PIPE



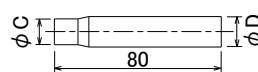
GAS PIPE



JOINT(Accessary)



ΦA(ID)	ΦB(OD)	Amount
12.7	9.52	1



ΦC(ID)	ΦD(OD)	Amount
12.7	15.88	3
19.05	25.4	1
6.35	9.52	3
15.88	25.4	1

How to Use / How to Install

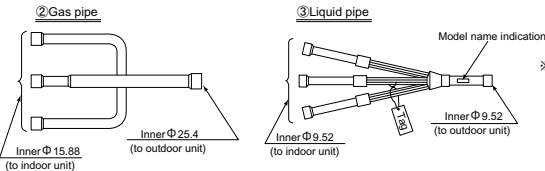
Package Air-conditioner Optional Parts Instruction Sheet for Simultaneous Triple Distributing Pipe exclusively used with Free Compo Multi-Units

MSDT-111R-E [Indoor unit same-capacity triple 33:33:33]..... Outdoor unit PU(H)-P6, 140GA type (R407C fixed speed)
 Outdoor unit PUHZ-RP6, 140HA type (R410A power inverter)
 Outdoor unit PUH-P8~10, 200~250MYA type (R407C fixed speed)
 Outdoor unit PUHZ-RP8~10, 200~250HA type (R410A power inverter)

• Make sure that you have all the following parts in packing box before beginning installation:

① Instruction sheet This sheet 1 sheet	② Gas pipe 1pc	③ Liquid pipe 1pc	④ Pipe cover (for gas pipe) With V cut 1pc	⑤⑥ Pipe covers (for gas pipe) ⑤ Outer Φ 50 × 250 - 1pc ⑥ Outer Φ 43 × 350 - 2pc	⑦ Pipe cover (for liquid pipe) 2pcs	⑧⑨ Pipe covers ⑧ Outer Φ 42 × 180 - 1pc ⑨ Outer Φ 38 × 200 - 3pcs	⑩ Bands 8pcs	⑪ Joint See Table 1.	⑫ Flare nut • 1/4F · 3pcs • 1/2F · 3pcs For R410A indoor unit.
---	-------------------	----------------------	--	---	--	---	-----------------	-------------------------	---

● See the following for the specifications of gas pipe ② and liquid pipe ③ :



Joint specifications and provided numbers (Table 1)

Sizes of joint pipe ends (mm)	Numbers provided
• Outer Φ 9.52 - Inner Φ 6.35	3
• Outer Φ 9.52 - Inner Φ 12.7	1
• Outer Φ 15.88 - Inner Φ 12.7	3
• Outer Φ 25.4 - Inner Φ 19.05	1
• Outer Φ 25.4 - Inner Φ 15.88	1
• Outer Φ 25.4 - Inner Φ 28.6	1

• Pipe size and limit to refrigerant pipe

■ For R407C fixed speed models

Outdoor unit capacity	Pipe size (mm)				Actual pipe length (m)			Height Difference (m)		Number of bends
	Gas pipe side		Liquid pipe side		Indoor-Outdoor	A+B+C+D=	Indoor-Outdoor	Indoor-Outdoor	Indoor-Outdoor	
	Outdoor unit side	Indoor unit side	Outdoor unit side	Indoor unit side						
140 (6Hp)	Φ 19.05 (3/4)		Φ 9.52 (3/8)		—	50m or less	B - C = B - D = C - D =	H = 40m or less	h = 1m or less	15 or less
200 (8Hp)	Φ 25.4 (1)	Φ 15.88 (5/8)	Φ 12.7 (1/2)	Φ 9.52 (3/8)	A + B = A + C = A + D = 50m or less	70m or less	8m or less	H = 40m or less	h = 1m or less	15 or less
250 (10Hp)	Φ 28.6 (1-1/8)									

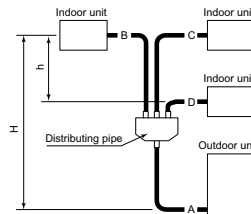
■ For R410A Power Inverter models

Outdoor unit capacity	Pipe size (mm)				Actual pipe length (m)			Height Difference (m)		Number of bends
	Gas pipe side		Liquid pipe side		Indoor-Outdoor	A+B+C+D=	Indoor-Outdoor	Indoor-Outdoor	Indoor-Outdoor	
	Outdoor unit side	Indoor unit side	Outdoor unit side	Indoor unit side						
140 (6Hp)	Φ 15.88 (5/8)	Φ 12.7 (1/2)	Φ 9.52 (3/8)	Φ 6.35 (1/4)	—	75m or less		H = 30m or less	h = 1m or less	15 or less
200 (8Hp)	Φ 25.4 (1)	Φ 15.88 (5/8)	Φ 12.7 (1/2)	Φ 9.52 (3/8)	A + B = A + C = A + D = 80m or less	80m or less	8m or less	H = 40m or less	h = 1m or less	15 or less
250 (10Hp)	Φ 28.6 (1-1/8)									

Note 1: Limit the number of bends for refrigerant pipes to 8 in each of the (A+B), (A+C) and (A+D) ranges.

※ See the installation manual provided with the main unit for details on charge-less pipe length and refrigerant additional charge amount.

(Fig. 1)



• Pipe connections

1. Perform work, taking care with the following:

- Be sure to check the combination pattern of indoor and outdoor units, joints to be used (Table 3), pipe size (Table 1) and joint used (I).
- Be sure to observe the limits to refrigerant pipe length and number of bends (Table 2).
- Insert the refrigerant pipe (procured at local site) and joint (I) into the expanded pipe portions of distributing pipe (this product) until they stop, and then connect them using anti-oxidizing 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 (I) will be necessary depending on the capability of model used: See (Table 3), and connect the refrigerant piping.
- Do not bend or widen the distributing pipe (liquid pipe).

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

■ For R407C fixed speed

Outdoor unit	Indoor unit	Joint to be used
140 (6Hp)	50+50 (2+2+2)	• Outer Φ 25.4 - inner Φ 19.05 (outdoor gas pipe side) × 1. • outer Φ 15.88 - inner Φ 12.7 × 3 (indoor gas pipe side)
200 (8Hp)	80+80 (2.5+2.5+2.5)	• Outer Φ 9.52 - inner Φ 12.7 (indoor gas pipe side) × 3
250 (10Hp)	71+71+71 (3+3+3)	• Outer Φ 25.4 - inner Φ 28.6 (outdoor gas pipe side) × 1

■ For R410A Power Inverter

Outdoor unit	Indoor unit	Joint to be used
140 (6Hp)	50+50 (2+2+2)	• Outer Φ 25.4 - inner Φ 15.88 (outdoor gas pipe side) × 1. • outer Φ 15.88 - inner Φ 12.7 (indoor gas pipe side) × 3. • outer Φ 9.52 - inner Φ 6.35 (indoor gas pipe side) × 3.
200 (8Hp)	80+80 (2.5+2.5+2.5)	No Joint is necessary
250 (10Hp)	71+71+71 (3+3+3)	• Outer Φ 9.52 - inner Φ 12.7 (outdoor liquid pipe side) × 1. • outer Φ 25.4 - inner Φ 28.6 (outdoor gas pipe side) × 1

※ Installation positions in brackets [].

• Heat insulation work

Gas pipe

(1) Wind pipe covers (4), (5) and (6) round gas pipe (2) so that there is no gap. Securely fit the V-cut portions of pipe cover (4) into the roots of pipe on both sides to install the pipe cover.

(2) Completely seal the openings of pipe covers (4), (5) and (6) using heat insulation seal tape (procured at local site). Wind seal tape round the pipe crossing portion in a crossed way so that there is no gap.

(3) Use band (10) to tighten the ends of each pipe cover.

Liquid pipe

(1) Fit liquid pipe (3) into 2 pipe covers (7), and then seal the mated portion of pipe covers (7) using heat insulation seal tape (procured at local site).

(2) Fit pipe covers (8) and (9) onto liquid pipe (3), and then securely seal the mated portion of pipe covers (7) using heat insulation seal tape (procured at local site).

(3) Use band (10) to tighten the ends of each pipe cover.

Notes:

1. Cut off any surplus pipe cover to make appropriate length.
2. Use pipe covers to completely cover the connection portions of refrigerant pipe (procured at local site), gas pipe (2) and liquid pipe (3).
3. Cover the entire refrigerant pipe (procured at local site) with heat insulation material. When using generally available heat insulation material, make sure it is heat-resistant insulation material (at least 12 mm thick).

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