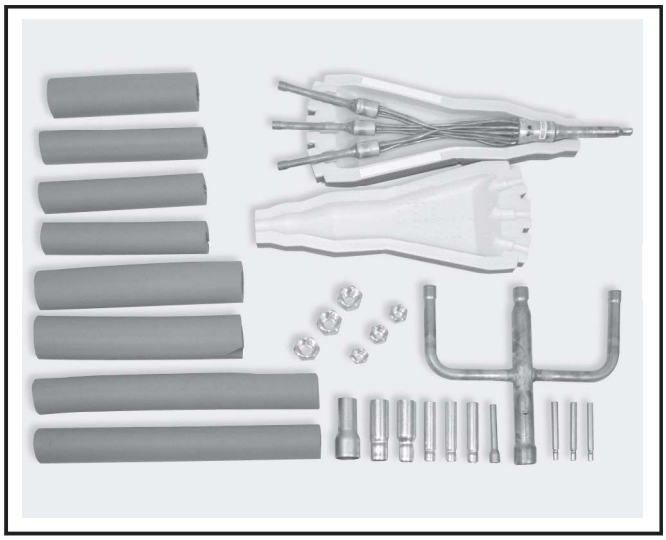
Distribution Pipe

Photo



Descriptions

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

Applicable Models

- PUZ-ZM100,125,140VKA type
- PUZ-ZM100,125,140,200,250YKA type
- PUZ-M140VKA type
- PUZ-M140,200,250YKA type

for 33:33:33 Triple use
[R32 type]

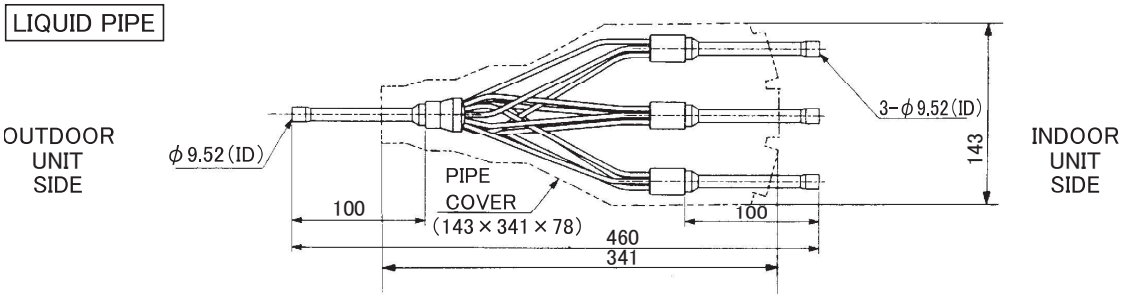
Specifications

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	10 joints (6 types)

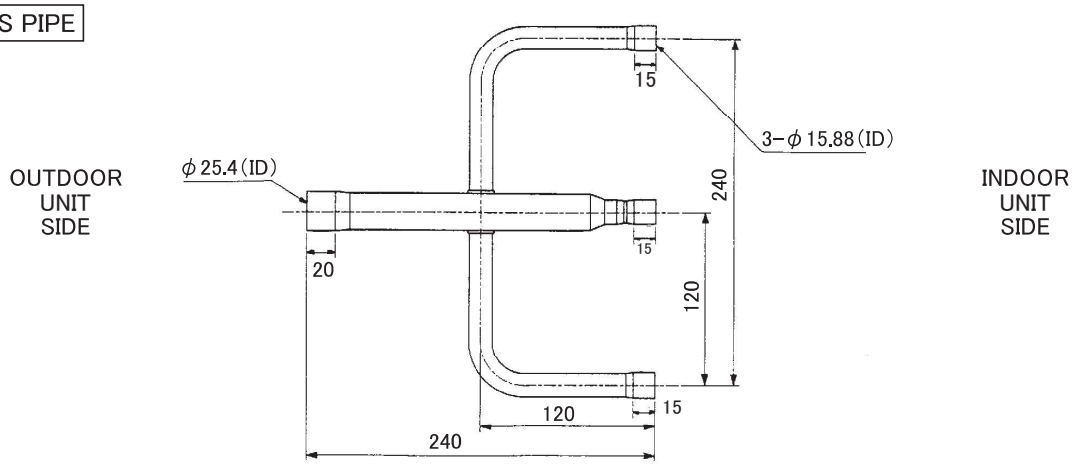
Dimensions

Unit: mm

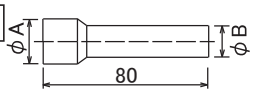
LIQUID PIPE



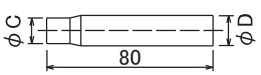
GAS PIPE



JOINT(Accessary)



ØA(ID)	ØB(OD)	Amount
12.7	9.52	1
28.6	25.4	1



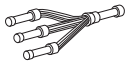
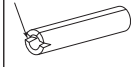
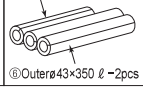
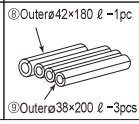
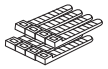
ØC(ID)	ØD(OD)	Amount
12.7	15.88	3
19.05	25.4	1
6.35	9.52	3
15.88	25.4	1

How to Use / How to Install

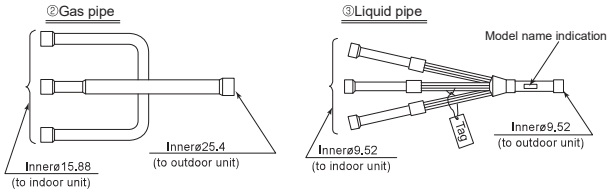
Packaged Air Conditioner Optional Parts Instruction Sheet for Simultaneous Triple Distributing Pipe exclusively used with Free Compo Multi-Units

MSDT-111R3-E [Indoor unit same-capacity triple 33:33:33]

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

①Instruction sheet	②Gas pipe	③Liquid pipe	④Pipe cover (for gas pipe)	⑤⑥Pipe cover (for gas pipe)	⑦Pipe cover (for liquid pipe)	⑧⑨Pipe cover	⑩Band	⑪Joint	⑫ Flare nut
 1 sheet	 1pc	 1pc	 With V cut 1pc	 ⑤Outerø50×250 ℓ −1pc ⑥Outerø43×350 ℓ −2pcs	 2pcs	 ⑧Outerø42×180 ℓ −1pc ⑨Outerø38×200 ℓ −3pcs	 8pcs	 See Table 1.	 ⓐ1/4F• • 3pcs ⓑ1/2F• • 3pcs For R32 indoor unit

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



Note:
The following items must be obtained locally in addition to the packed parts.
ⓐ Heat insulating sealing tape
ⓑ Extension pipe for refrigerant pipe

Joint specifications and provided numbers <Table 1>

Sizes of joint pipe ends (mm)	Numbers provided
Ⓐ Outerø9.52−Innerø6.35	3
Ⓑ Outerø9.52−Innerø12.7	1
Ⓒ Outerø15.88−Innerø12.7	3
Ⓓ Outerø25.4−Innerø19.05	1
Ⓔ Outerø25.4−Innerø15.88	1
Ⓕ Outerø25.4−Innerø28.6	1
Ⓖ Outerø15.88−Innerø9.52	3

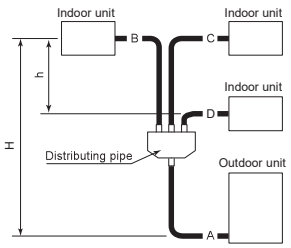
2 Pipe size and limit to refrigerant pipe

<Table 2>

Outdoor unit capacity	Pipe size (mm)				Actual pipe length (m)			Difference of elevation (m)		Note 1 Number of bends
	Gas pipe side		Liquid pipe side		Indoor-Outdoor	A+B+C+D=	Indoor-Indoor	Indoor-Outdoor	Indoor-Indoor	
	Outdoor unit side	Indoor unit side	Outdoor unit side	Indoor unit side						
100	ø15.88 <5/8>	ø9.52 <3/8>	ø9.52 <3/8>	ø6.35 <1/4>	Refer to the instruction manual of the outdoor unit.					
125, 140		ø12.7 <1/2>								
200	ø25.4 <1>	ø15.88 <5/8>	ø9.52 <3/8>	ø9.52 <3/8>						
250			ø12.7 <1/2>							

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>



3 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 ⑪.
   • 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 ⑪ into the expanded pipe portions of distributing pipe (this product) until they stop, and then connect them using anti-oxidization 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 ⑪ 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:

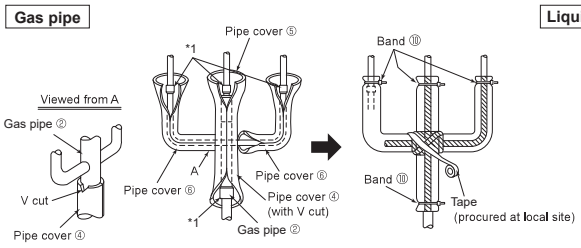
<Table 3>

Outdoor unit	Indoor unit	Joint to be used
100	35+35+35	Ⓔ Outerø25.4−innerø15.88[outdoor gas pipe side]×1, Ⓖ Outerø15.88−innerø9.52[indoor gas pipe side]×3, Ⓐ Outerø9.52−innerø6.35[indoor liquid pipe side]×3
125,140	50+50+50	Ⓔ Outerø25.4−innerø15.88[outdoor gas pipe side]×1 , Ⓒ Outerø15.88−innerø12.7[indoor gas pipe side]×3, Ⓐ Outerø9.52−innerø6.35[indoor liquid pipe side]×3
200	60+60+60	No Joint is necessary
250	71+71+71	Ⓑ Outerø9.52−innerø12.7[outdoor liquid pipe side]×1

Note 1: Installation positions in brackets [ ].

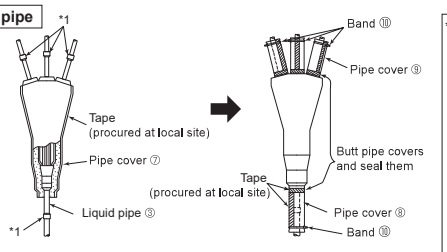
4 Heat insulation work

Gas pipe



(1)Wind pipe cover 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 cover 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 cover ⑦, and then seal the mated portion of pipe cover ⑦ using heat insulation seal tape (procured at local site).
(2)Fit pipe cover ⑧ and ⑨ into liquid pipe ③, and then securely seal the mated portion of pipe cover ⑦ using heat insulation seal tape (procured at local site).
(3)Use band ⑩ to tighten the ends of each pipe cover.

*1 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.