

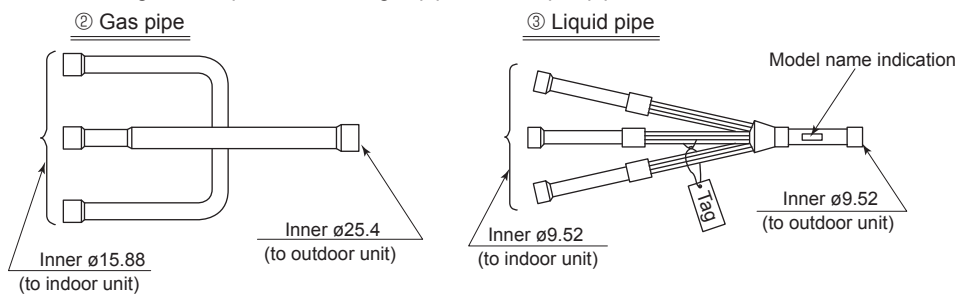
Packaged Air Conditioner Optional Parts Instruction Sheet for Simultaneous Triple Distributing Pipe exclusively used with Free Compo Multi-Units

MSDT-111R2-E [Indoor unit same-capacity triple 33:33:33]..... Outdoor unit PUZ-ZM140V/YKA type (R32 power inverter)

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

① Instruction sheet	② Gas pipe	③ Liquid pipe	④ Pipe cover (for gas pipe)	⑤⑥ Pipe cover (for gas pipe)	⑦ Pipe cover (for liquid pipe)	⑧⑨ Pipe cover	⑩ Band	⑪ Joint	⑫ Flare nut
1 sheet	1pc	1pc	1pc	⑤ Outerø50×250 ℓ -1pc ⑥ Outerø43×350 ℓ -2pcs	2pcs	⑧ Outerø42×180 ℓ -1pc ⑨ Outerø38×200 ℓ -3pcs	8pcs	See Table 1.	⑫ 1/4F•• 3pcs ⑫ 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.
- ⑬ Heat insulating sealing tape
- ⑭ Extension pipe for refrigerant pipe

Joint specifications and provided numbers <Table 1>

Sizes of joint pipe ends (mm)	Numbers provided
Ⓐ Outer ø 9.52 – Inner ø6.35	3
Ⓑ Outer ø 9.52 – Inner ø12.7	1
Ⓒ Outer ø15.88 – Inner ø12.7	3
Ⓓ Outer ø25.4 – Inner ø19.05	1
Ⓔ Outer ø25.4 – Inner ø15.88	1
Ⓕ Outer ø25.4 – Inner ø28.6	1

2 Pipe size and limit to refrigerant pipe

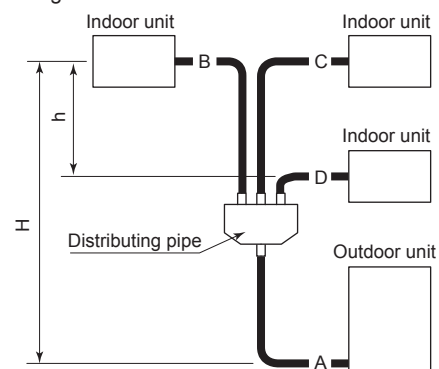
■ For R32 power inverter

Outdoor unit capacity	Pipe size (mm)				Actual pipe length (m)			Difference of elevation (m)		* 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						
ZM140	ø15.88 <5/8>	ø12.7 <1/2>	ø9.52 <3/8>	ø6.35 <1/4>	-	100m or less	B-C = 8m or less	H = 30m or less	h = 1m or less	15 or less

* 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:

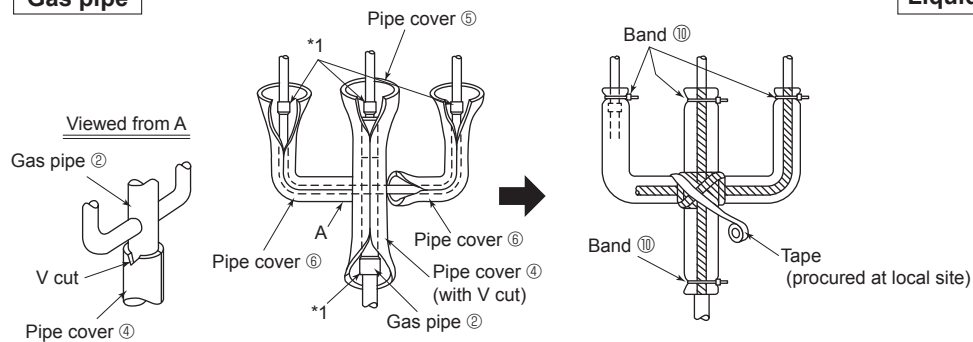
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Outdoor unit	Indoor unit	Joint to be used
ZM140	50+50+50	Ⓒ Outer ø25.4 – inner ø15.88 [outdoor gas pipe side]×1, Ⓓ Outer ø15.88 – inner ø12.7 [indoor gas pipe side]×3, Ⓐ Outer ø9.52 – inner ø6.35 [indoor liquid pipe side]×3

Note: Installation positions in brackets [].

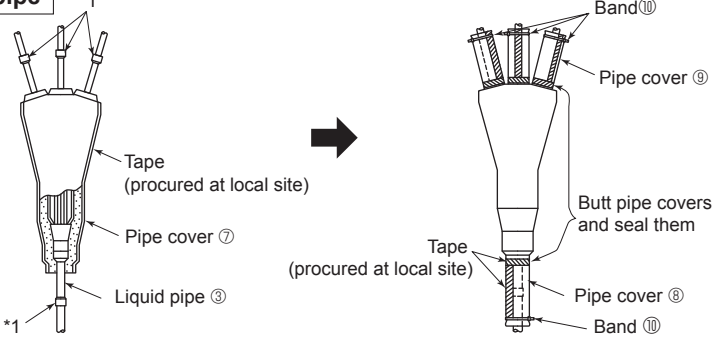
4 Heat insulation work

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.