

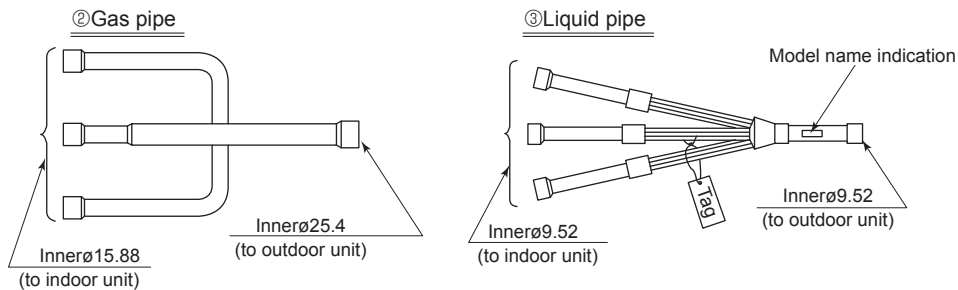
Packaged Air Conditioner Optional Parts Instruction Sheet for Simultaneous Triple Distributing Pipe exclusively used with Free Compo Multi-Units

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)
 Outdoor unit PUHZ-(ZR)P100~140(V/YKA)V/YHA, (ZR)P200~250YKA type (R410A 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	With V cut 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.	⑬ 1/4F • 3pcs ⑭ 1/2F • 3pcs For R410A 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
⑬ Outerø9.52-Innerø6.35	3
⑭ Outerø9.52-Innerø12.7	1
⑮ Outerø15.88-Innerø12.7	3
⑯ Outerø25.4-Innerø19.05	1
⑰ Outerø25.4-Innerø15.88	1
⑱ Outerø25.4-Innerø28.6	1
⑲ Outerø15.88-Innerø9.52	3

2 Pipe size and limit to refrigerant pipe

■ For R407C fixed speed

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							
P6, 140	ø19.05 <3/4>		ø9.52 <3/8>		-	50m or less	B-C = B-D = C-D =	H = 40m or less	h = 1m or less	15 or less	
P8, 200	ø25.4 <1>	ø15.88 <5/8>	ø12.7 <1/2>	ø9.52 <3/8>	A+B = A+C = A+D = 50m or less	70m or less					8m or less
P10, 250	ø28.6 <1-1/8>										

■ For R410A power inverter

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							
RP6, 140	ø15.88 <5/8>	ø12.7 <1/2>	ø9.52 <3/8>	ø6.35 <1/4>	-	75m or less	B-C = 8m or less	H = 30m or less	h = 1m or less	15 or less	
RP8, 200	ø25.4 <1>	ø15.88 <5/8>	ø12.7 <1/2>	ø9.52 <3/8>	A+B = A+C = A+D = 80m or less	80m or less					40m or less
RP10, 250	ø28.6 <1-1/8>										

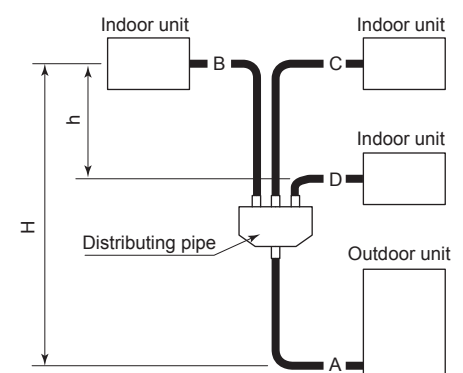
■ For R410A inverter

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							
ZRP100	ø15.88 <5/8>	ø12.7 <1/2>	ø9.52 <3/8>	ø6.35 <1/4>	-	75m or less	B-C = 8m or less	H = 30m or less	h = 1m or less	15 or less	
(ZR)P125, 140					A+B = A+C = A+D = 100m or less	100m or less					40m or less
(ZR)P200	ø25.4 <1>	ø15.88 <5/8>	ø12.7 <1/2>	ø9.52 <3/8>							
(ZR)P250											

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 3-1 or 3-2>, 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:

■ For R407C fixed speed

Outdoor unit	Indoor unit	Joint to be used
P6, 140	2+2+2, 50+50+50	⑮ Outerø25.4-innerø19.05[outdoor gas pipe side]×1, ⑯ Outerø15.88-innerø12.7×3[indoor gas pipe side]
P8, 200	2.5+2.5+2.5, 60+60+60	⑮ Outerø9.52-innerø12.7[indoor gas pipe side]×3
P10, 250	3+3+3, 71+71+71	⑮ Outerø25.4-innerø28.6[outdoor gas pipe side]×1

■ For R410A power inverter

Outdoor unit	Indoor unit	Joint to be used
PR6, 140	2+2+2, 50+50+50	⑮ Outerø25.4-innerø15.88[outdoor gas pipe side]×1, ⑯ Outerø15.88-innerø12.7[indoor gas pipe side]×3, ⑰ Outerø9.52-innerø6.35[indoor gas pipe side]×3
PR8, 200	2.5+2.5+2.5, 60+60+60	No Joint is necessary
PR10, 250	3+3+3, 71+71+71	⑮ Outerø9.52-innerø12.7[outdoor liquid pipe side]×1, ⑰ Outerø25.4-innerø28.6[outdoor gas pipe side]×1

■ For R410A inverter

Outdoor unit	Indoor unit	Joint to be used
ZRP100	35+35+35	⑮ Outerø25.4-innerø15.88[outdoor gas pipe side]×1, ⑯ Outerø15.88-innerø9.52[indoor gas pipe side]×3, ⑰ Outerø9.52-innerø6.35[indoor liquid pipe side]×3
(ZR)P125, 140	50+50+50	⑮ Outerø25.4-innerø15.88[outdoor gas pipe side]×1, ⑯ Outerø15.88-innerø12.7[indoor gas pipe side]×3, ⑰ Outerø9.52-innerø6.35[indoor liquid pipe side]×3
(ZR)P200	60+60+60	No Joint is necessary
(ZR)P250	71+71+71	⑮ Outerø9.52-innerø12.7[outdoor liquid pipe side]×1

Note 1: Installation positions in brackets [].

4 Heat insulation work

Gas pipe

Viewed from A

Gas pipe ②

V cut

Pipe cover ④

Pipe cover ⑤

Pipe cover ⑥

Pipe cover ④ (with V cut)

Gas pipe ②

*1

Band ⑩

Tape (procured at local site)

Liquid pipe

*1

Tape (procured at local site)

Pipe cover ⑦

Liquid pipe ③

*1

Band ⑩

Pipe cover ⑧

Tape (procured at local site)

Butt pipe covers and seal them

(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.

(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.