

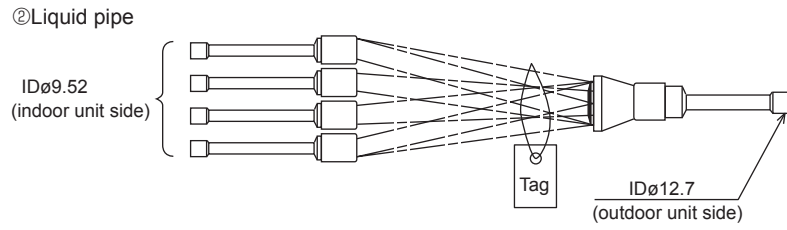
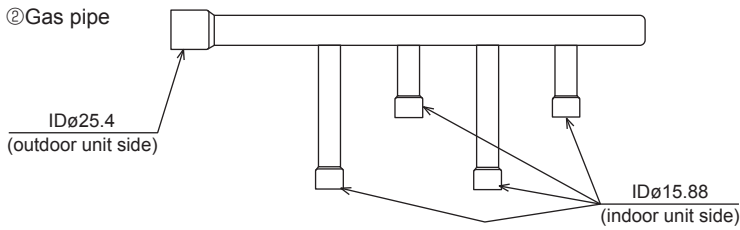
Packaged Air Conditioner Optional Parts Instruction Sheet for Simultaneous Quadruple Distributing Pipe exclusively used with Free Compo Multi-Units

Model MSDF-1111R-E [Indoor unit (quadruple) With same-capacity 25:25:25:25]..... 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)P200~250YKA type (R410A inverter)
 Outdoor unit PUHZ-ZRP125~140V/YKA type (R410A inverter)

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

① Installation manual	② Gas pipe	③ Liquid pipe	④ Pipe cover (for gas pipe)	⑤ Pipe cover (for liquid pipe)	⑥⑦ Pipe cover	⑧ Band	⑨ Joint	⑩ Flare nut
1 sheet	1pc	1pc	1pc	2pcs	⑥ OD.ø42×180L-1pc ⑦ ø38×200L-4pcs	7pcs		Ⓐ ø9.52→ø6.35...4pcs Ⓑ ø12.7→ø9.52...1pc Ⓒ ø12.7→ø15.88...1pc Ⓓ ø15.88→ø12.7...4pcs Ⓔ ø25.4→ø28.6...1pc Ⓕ ø25.4→ø15.88...1pc Ⓖ ø15.88→ø9.52...4pcs Ⓐ 1/4F...4pcs Ⓑ 1/2F...4pcs For R410A indoor unit.

• The gas pipe ② and liquid pipe ③ are specified as shown below.



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

2 Pipe size and refrigerant pipe limits

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

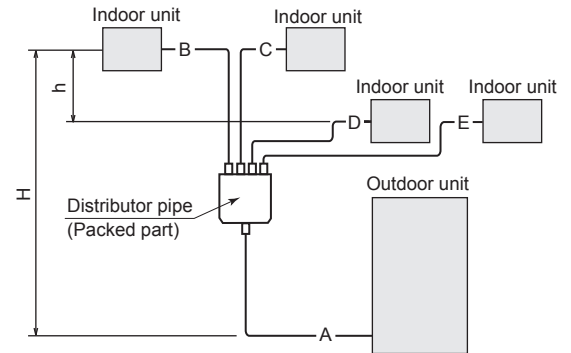
■For R410A power inverter

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

■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	
(ZR)P200	ø25.4 <1>	ø12.7 <1/2>	ø9.52 <3/8>	ø6.35 <1/4>	A + B = A + C = A + D = A + E = 100m or less	100m or less	B-C = B-D = B-E = C-D = C-E = D-E = 8m or less	H = 30m or less	h = 1m or less	15 or less
(ZR)P250	ø25.4 <1>	ø15.88 <5/8>	ø12.7 <1/2>	ø9.52 <3/8>	A + B = A + C = A + D = A + E = 100m or less	100m or less	B-C = B-D = B-E = C-D = C-E = D-E = 8m or less	H = 30m or less	h = 1m or less	15 or less
ZRP125,140	ø15.88 <5/8>	ø9.52 <3/8>	ø9.52 <3/8>	ø6.35 <1/4>	-	75m or less	B-C = B-D = B-E = C-D = C-E = D-E = 8m or less	H = 30m or less	h = 1m or less	15 or less

Note 1: The number of bends in the refrigerant pipes is respectively 8 or less in the range of <A+B><A+C><A+D><A+E>.



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 2>, pipe size and joint ⑨.
- 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 ⑨ 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 joint(s) ⑨ will be necessary depending on the capability of model used: See <Table 2>, 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
P8, 200	2+2+2+2, 50+50+50+50	No Joint is necessary
P10, 250	2.5+2.5+2.5+2.5, 60+60+60+60	Ⓔ Outerø25.4-innerø28.6[outdoor gas pipe side]×1

■For R410A power inverter

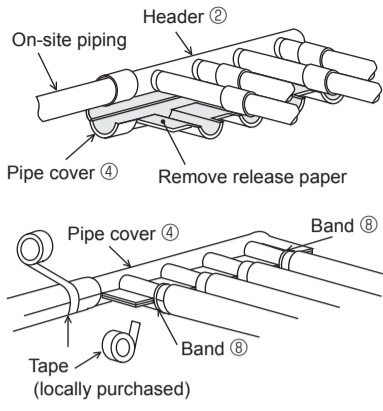
Outdoor unit	Indoor unit	Joint to be used
RP8, 200	2+2+2+2, 50+50+50+50	Ⓓ Outerø15.88-innerø12.7[indoor gas pipe side]×4, Ⓐ Outerø9.52-innerø6.35[indoor liquid pipe side]×4, Ⓑ Outerø12.7-innerø9.52[outdoor gas pipe side]×1
RP10, 250	2.5+2.5+2.5+2.5, 60+60+60+60	Ⓔ Outerø25.4-innerø28.6[outdoor gas pipe side]×1

■For R410A inverter

Outdoor unit	Indoor unit	Joint to be used
(ZR)P200	50+50+50+50	Ⓓ Outerø15.88-innerø12.7[indoor gas pipe side]×4, Ⓐ Outerø9.52-innerø6.35[indoor liquid pipe side]×4, Ⓑ Outerø12.7-innerø9.52[outdoor gas pipe side]×1
(ZR)P250	60+60+60+60	No Joint is necessary
ZRP125,140	35+35+35+35	Ⓕ Outerø25.4-innerø15.88[outdoor gas pipe side]×1, Ⓓ Outerø15.88-innerø9.52[indoor gas pipe side]×4, Ⓑ Outerø12.7-innerø9.52[outdoor liquid pipe side]×1, Ⓐ Outerø9.52-innerø6.35[indoor liquid pipe side]×4

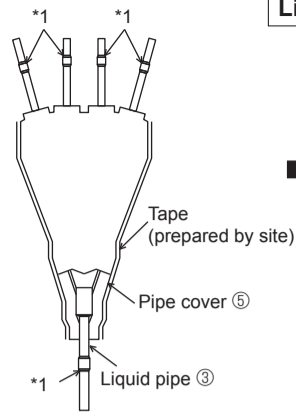
4 Heat insulation work

Gas pipe

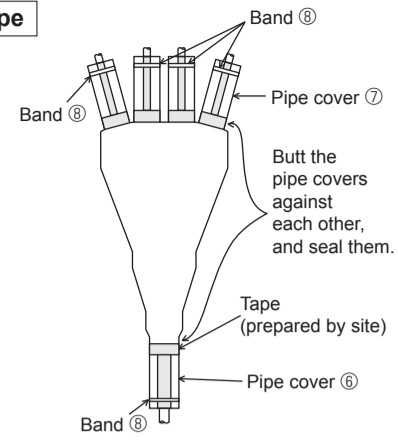


- (1) After assembling header ② into pipe cover ④ remove the release paper from inside pipe cover ④ and wrap header ② with pipe cover ④.
- (2) Clamp both ends of the indoor branch connection of pipe cover ④ with band ⑧ as shown above. Cut off the excess length of the band.
- (3) Tightly seal the joints of the pipe cover with tape (locally purchased). (Incomplete sealing can result in dew condensation.)

Liquid pipe



- (1) Install the liquid pipe ③ while aligning it with the pipe cover ⑤ (2 pcs). Seal the joint areas of the pipe cover ⑤ with heat insulating sealing tape (obtain locally).



- (1) As shown above, install the liquid pipe ③ on the pipe cover ⑥ and ⑦, and securely seal with heat insulating sealing tape (obtain locally).
- (2) Fasten the end of each pipe cover with band ⑧.

Notes:

1. Cut the excessive part of each pipe cover.
2. Securely cover the joint areas (*1) of the refrigerant pipe (obtained locally) to the gas pipes ② and liquid pipe ③ with the pipe covers.
3. Cover the entire refrigerant pipe (obtained locally) with heat insulating material. If commercial heat insulating material is used, it must be 12mm or thicker.

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