

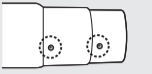
INSTALLATION MANUAL

Please read 'Safety Precautions' described in the installation manual of the air conditioner.

- Check the following parts in the package.
- For further information of the piping material and size of the refrigerant pipes, refer to the installation manual of the air conditioner.

Requirement

- Condensate may occur on the heat insulation surface according to the atmosphere inside of the ceiling.
- If the inside of the ceiling has high temperature or humidity rate is more than 80%, please add proper insulation to prevent water drops.
- The stopper area of the pipe or socket should be spread with a welding material. (X)

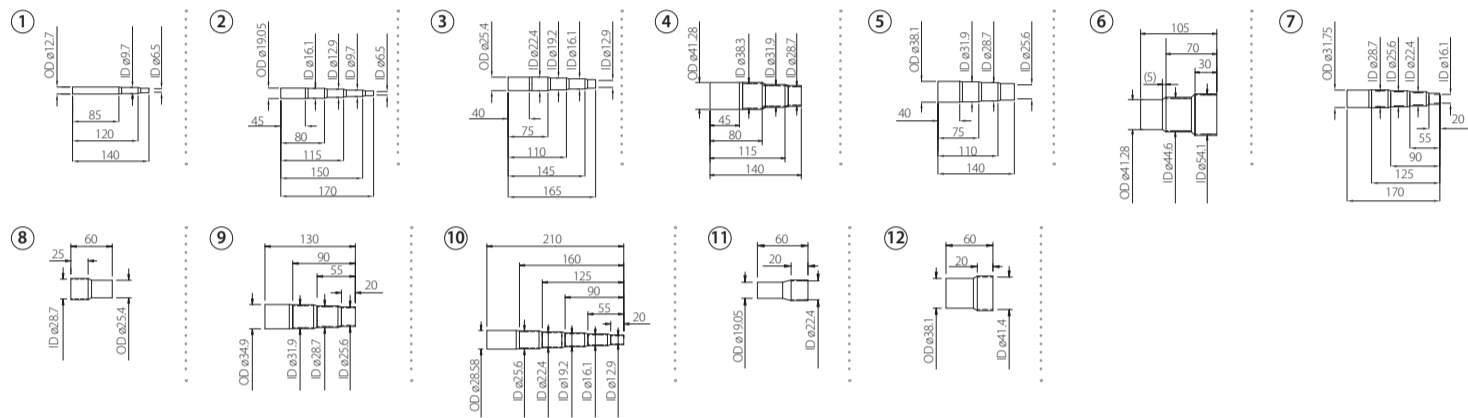


Branch joints

Y-joint

Name	Model	MXJ-YA1509M	MXJ-YA2512M	MXJ-YA2812M	MXJ-YA2815M	MXJ-YA3419M	MXJ-YA4119M	MXJ-YA4422M
Liquid side		① x 2 EA	① x 2 EA	① x 2 EA	② x 2 EA	② x 2 EA ⑪ x 2 EA	② x 2 EA ⑪ x 2 EA	① x 1 EA ③ x 2 EA
Gas side		② x 2 EA	③ x 2 EA ⑧ x 2 EA	③ x 1 EA ⑦ x 1 EA	③ x 1 EA ⑦ x 1 EA	⑨ x 1 EA ⑩ x 1 EA ⑫ x 1 EA	③ x 1 EA ⑤ x 1 EA ⑨ x 1 EA ⑫ x 1 EA	③ x 1 EA ④ x 1 EA ⑤ x 1 EA ⑥ x 1 EA

Reducer

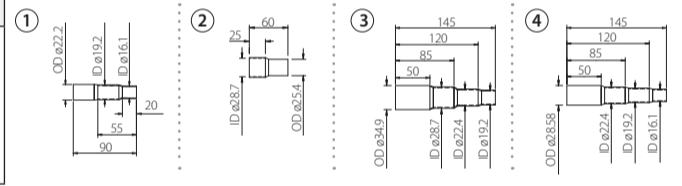


Model name	Total indoor unit's capacities
MXJ-YA1509M	15.0 kW (51 MBH) and below
MXJ-YA2512M	Over 15.0~40.0 kW (51~136 MBH) and below
MXJ-YA2812M	Over 40.0~45.0 kW (136~154 MBH) and below
MXJ-YA2815M	Over 45.0~70.3 kW (154~240 MBH) and below
MXJ-YA3419M	Over 70.3~98.4 kW (240~336 MBH) and below
MXJ-YA4119M	Over 98.4~135.2 kW (336~461 MBH) and below
MXJ-YA4422M	Over 135.2 kW (461 MBH)

Y-joint for HR (High pressure gas)

Model	MXJ-YA1500M	MXJ-YA2500M	MXJ-YA3100M	MXJ-YA3800M
Liquid side	① x 2 EA ② x 1 EA	① x 2 EA ② x 1 EA	③ x 1 EA ④ x 1 EA	③ x 2 EA
Gas side	③ x 4 EA ⑤ x 1 EA	③ x 8 EA ⑥ x 1 EA	③ x 8 EA ⑥ x 1 EA	③ x 8 EA

Reducer

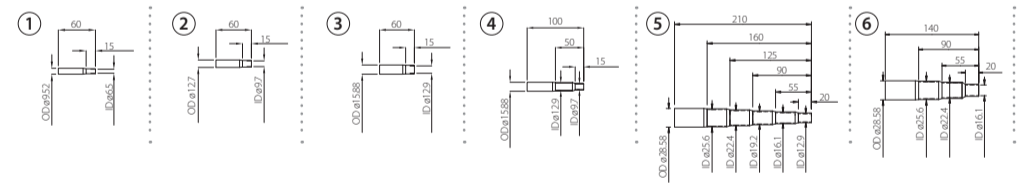


Model name	Total indoor unit's capacities
MXJ-YA1500M	22.4 kW (76 MBH) and below
MXJ-YA2500M	Over 22.4~70.3 kW (76~240 MBH) and below
MXJ-YA3100M	Over 70.3~135.2 kW (240~461 MBH) and below
MXJ-YA3800M	Over 135.2 kW (461 MBH)

Header joint

Name	Model	MXJ-HA2512M	MXJ-HA3115M	MXJ-HA3819M
Liquid side		① x 4 EA ② x 1 EA ⑦ x 1 EA	① x 8 EA ④ x 1 EA ⑦ x 1 EA	① x 8 EA ⑦ x 1 EA
Gas side		③ x 4 EA ⑤ x 1 EA	③ x 8 EA ⑥ x 1 EA	③ x 8 EA

Reducer

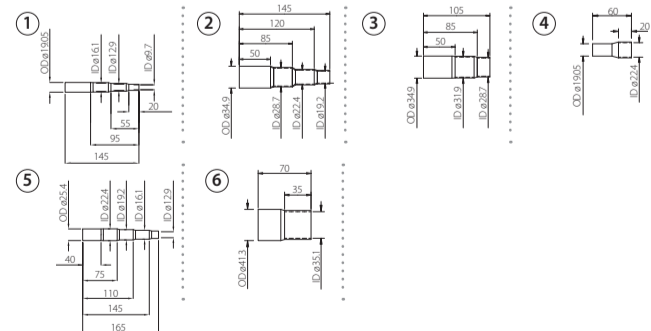


Model name	Total indoor unit's capacities	The maximum quantity of connection
MXJ-HA2512M	45.0 kW(154 MBH) and below	4
MXJ-HA3115M	70.3 kW(240 MBH) and below	8
MXJ-HA3819M	Over 70.3 kW (240 MBH)	8

Outdoor joint

Name	Model	MXJ-TA3819M	MXJ-TA4422M
Liquid side		① x 2 EA ④ x 1 EA	⑤ x 2 EA
Gas side		② x 1 EA ③ x 1 EA	⑥ x 1 EA

Reducer

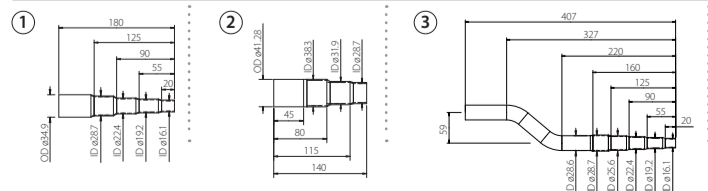


Model name	Total outdoor unit's capacities
MXJ-TA3819M	Below 135.2 kW(48HP, 461.3 MBH)
MXJ-TA4422M	Above 140.2 kW(50HP, 478.4 MBH)

Outdoor joint for HR (High pressure gas)

Model	MXJ-TA3100M	MXJ-TA3800M
Liquid side	① x 1 EA ③ x 1 EA	② x 1 EA ③ x 1 EA ④ x 2 EA
Gas side	③ x 4 EA ⑤ x 1 EA	③ x 8 EA ⑥ x 1 EA

Reducer



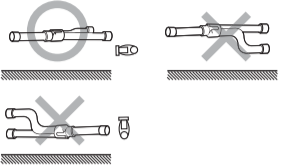
Model name	Total outdoor unit's capacities
MXJ-TA3100M	Below 135.2 kW(48HP, 461.3MBH)
MXJ-TA3800M	Above 140.2 kW(50HP, 478.4 MBH)

Connecting Method

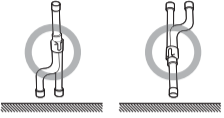
Installing the Y-joint

Install the Y-joint 'horizontally' or 'vertically'.

<Install horizontally>



<Install vertically>

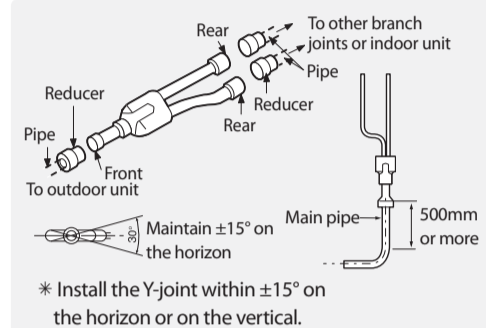
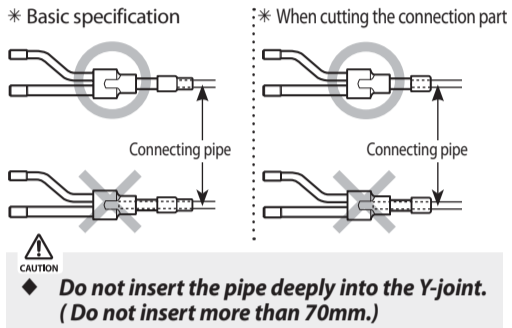


<Using reducer>

- Use connection part of Y-joint or provided reducer by cutting them in accordance with diameter of connecting pipe.
- Make certain 10~15mm or more for reducer which connected with pipe.
- Remove burr on cut part of reducer. It is impossible to connect reducer with pipe, if pipe is deformed or reducer is untrimmed.

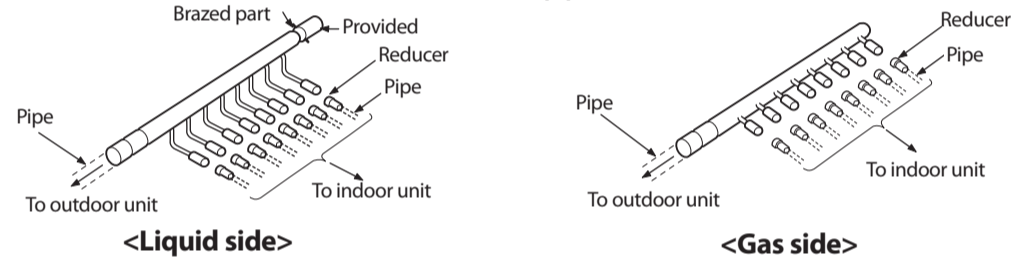
CAUTION
◆ Keep a minimum distance of 500mm or more before connecting a branch joint.

<Insertion depth of the connecting pipe>

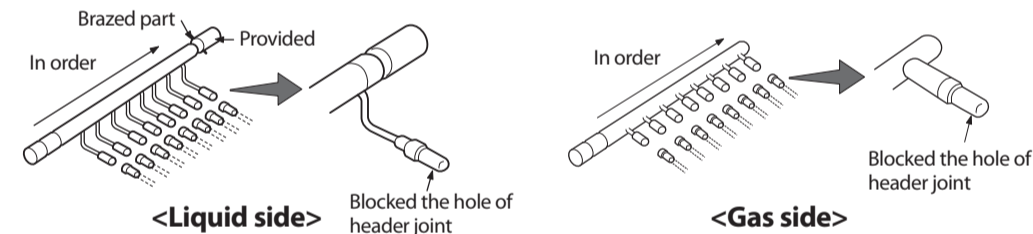


Installing the Header joint

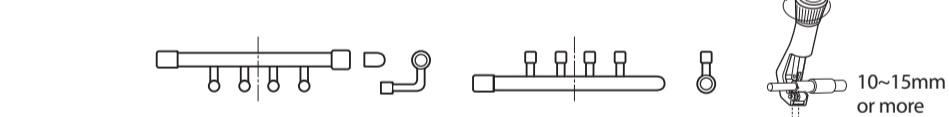
1. Select the reducer fitted on the diameter of the pipe.



2. Block the reducer that is not used by brazing the cap if the number of connected indoor unit is fewer than header joint holes.

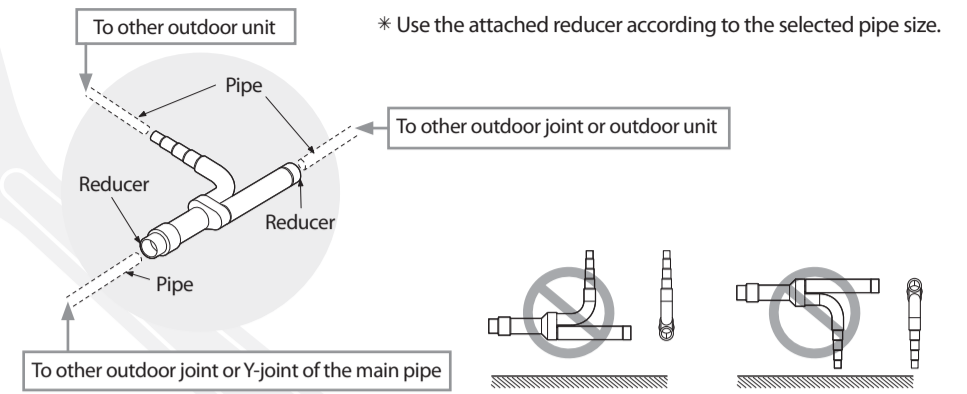
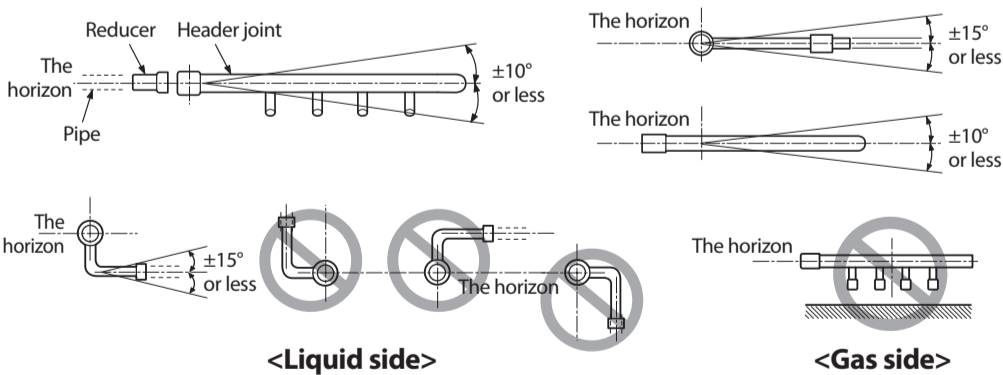


Note Connect the header joint to the pipe by cutting the provided reducer properly.

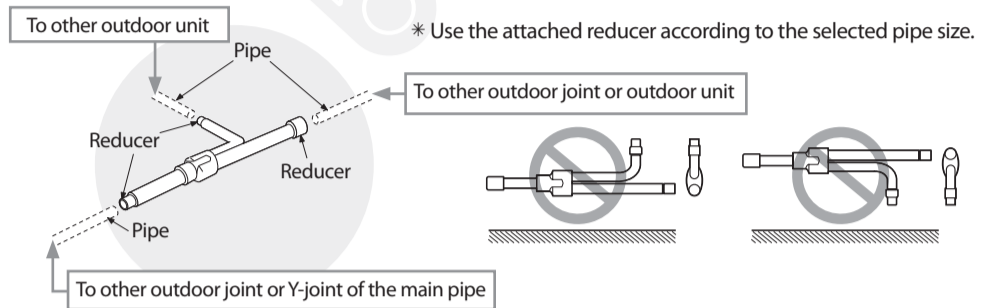


- ◆ Connect the header joint in order respecting the number of the indoor unit.
- ◆ Connect the indoor unit as the highest capacity comes first.

3. Install the header joint horizontally.

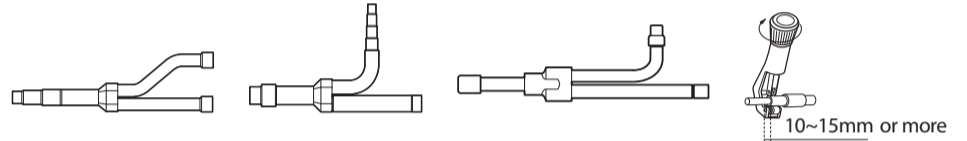


<Gas side>

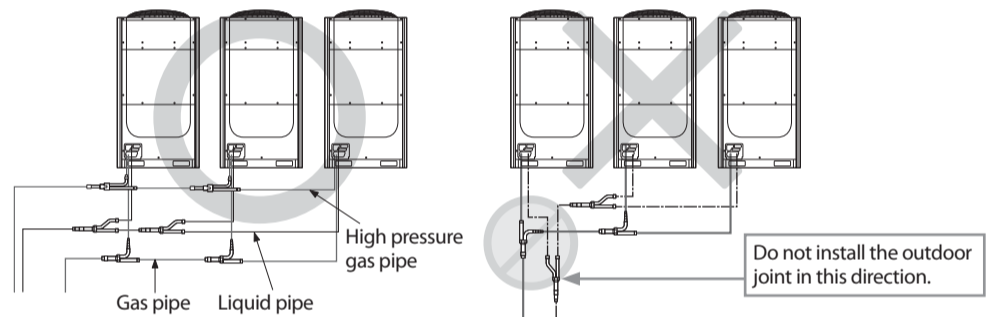


<High pressure gas side>

Note Connect the Outdoor joint to the pipe by cutting the outlet of the Outdoor joint or provided reducer properly.



Installation of outdoor units

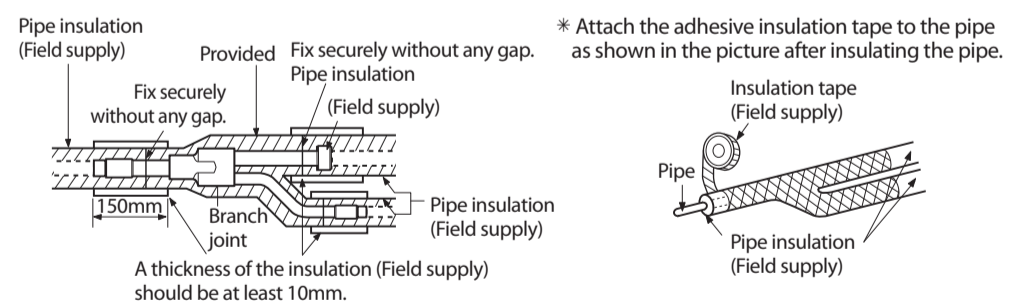


* High pressure gas pipe only applies to the HR product.

Insulating the branch joint

Y-joint & liquid side & gas side of the outdoor unit

- ◆ Attach the insulation provided with a branch joint to the insulation supplied in the field without a gap. Wrap the connected part with an insulation (Field supply) of a thickness of at least 10mm.
- ◆ Use an insulation with the heat resisting temperature over 120°C. Wrap the branch joint with an insulation of a thickness of at least 10mm.
- ◆ When insulating in high humidity (higher than 30°C, 80%), wrap the supplied insulation with more than 10mm of extra insulation such as Polyethylene Foam or other similar material.
- ◆ Wrap the connected part between the Outdoor joint and the gas side of the outdoor unit to prevent it from defrosting. Wrap gas side pipe of the outdoor unit wholly to prevent it from dewing.



Header joint

- ◆ Cover the connected pipe part and fasten the header joint using a cable tie.
- ◆ Insulate the header joint and the brazed part and wrap the connected part with an adhesive insulation tape to prevent it from dewing.

