

INSTALLATION MANUAL

DB98-33821A-05

- 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)

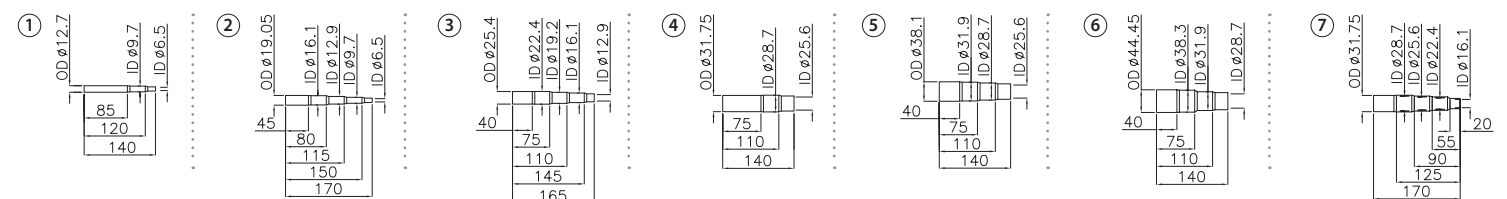


Branch joints

Y-joint

Name	Model	MXJ-YA1509K	MXJ-YA2512L	MXJ-YA2812K	MXJ-YA2815K	MXJ-YA3119K	MXJ-YA3819K	MXJ-YA4422K
Liquid side								
		① x 2 EA	① x 2 EA	① x 2 EA	② x 2 EA	② x 2 EA	② x 2 EA	① x 1 EA ③ x 2 EA
Gas side								
		② x 2 EA	③ x 2 EA	③ x 1 EA ⑦ x 1 EA	③ x 1 EA ⑦ x 1 EA	③ x 1 EA ④ x 1 EA	③ x 1 EA ④ x 1 EA ⑤ x 1 EA	③ x 1 EA ⑤ x 1 EA ⑥ x 1 EA

Reducer

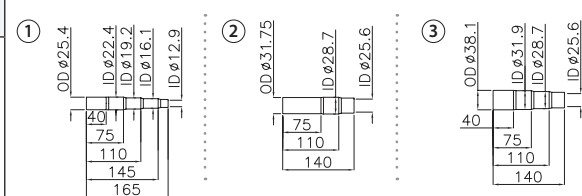


Model name	Total indoor unit's capacities
MXJ-YA1509K	15.0 kW and below
MXJ-YA2512L	Over 15.0~40.6 kW and below
MXJ-YA2812K	Over 40.6~46.4 kW and below
MXJ-YA2815K	Over 46.4~69.6 kW and below
MXJ-YA3119K	Over 69.6~98.6 kW and below
MXJ-YA3819K	Over 98.6~139.2 kW and below
MXJ-YA4422K	Over 139.2 kW

Y-joint for HR (High pressure gas)

Model	MXJ-YA1500K	MXJ-YA2500K	MXJ-YA3100K	MXJ-YA3800K
Liquid side				
	① x 4 EA	② x 1 EA	① x 1 EA	① x 1 EA
Gas side				
	③ x 4 EA	⑤ x 1 EA	③ x 8 EA	③ x 8 EA

Reducer

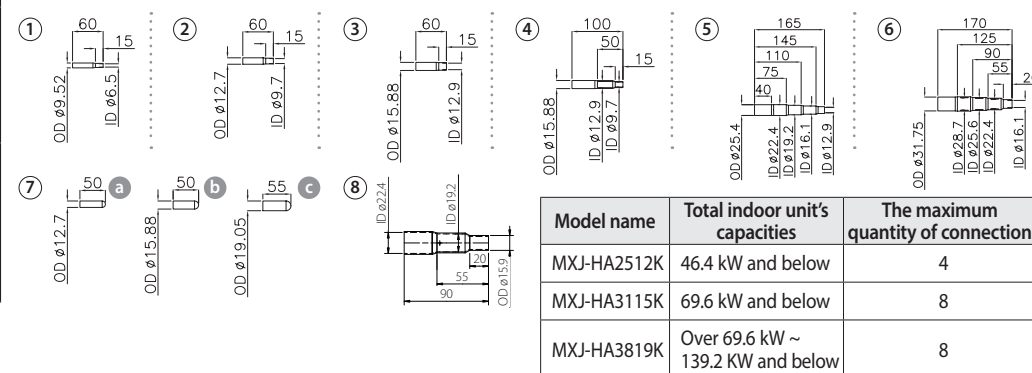


Model name	Total indoor unit's capacities
MXJ-YA1500K	23.2 kW and below
MXJ-YA2500K	Over 23.2~69.6 kW and below
MXJ-YA3100K	Over 69.6~139.2 kW and below
MXJ-YA3800K	Over 139.2 kW

Header joint

Name	Model	MXJ-HA2512K	MXJ-HA3115K	MXJ-HA3819K
Liquid side				
		① x 4 EA	② x 1 EA	⑦ x 1 EA
Gas side				
		③ x 4 EA	⑤ x 1 EA	③ x 8 EA

Reducer

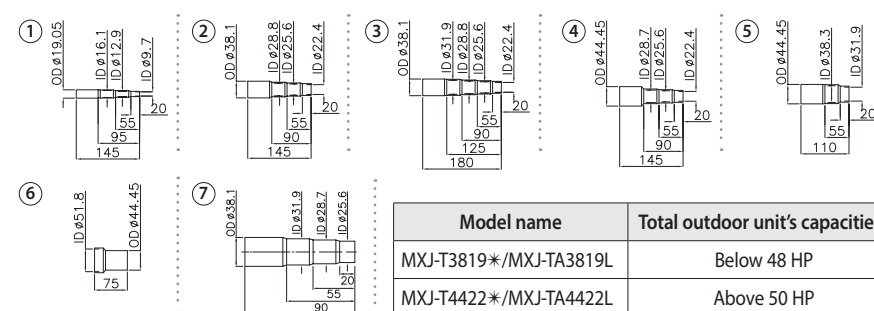


Model name	Total indoor unit's capacities	The maximum quantity of connection
MXJ-HA2512K	46.4 kW and below	4
MXJ-HA3115K	69.6 kW and below	8
MXJ-HA3819K	Over 69.6 kW ~ 139.2 kW and below	8

Outdoor joint

Name	Model	MXJ-T3819*	MXJ-T4422*	MXJ-TA3819L	MXJ-TA4422L
Liquid side					
		① x 2 EA	① x 2 EA	① x 2 EA	① x 2 EA
Gas side					
		② x 1 EA	② x 1 EA	③ x 1 EA	③ x 1 EA

Reducer

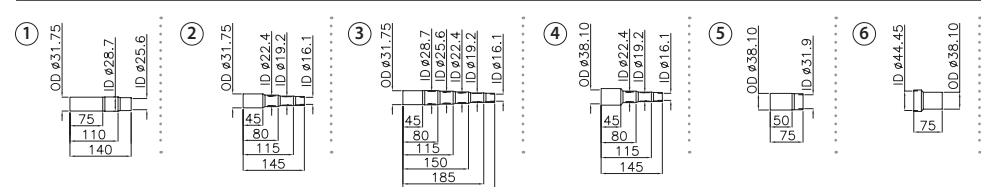


Model name	Total outdoor unit's capacities
MXJ-T3819*/MXJ-TA3819L	Below 48 HP
MXJ-T4422*/MXJ-TA4422L	Above 50 HP

Outdoor joint for HR (High pressure gas)

Model	MXJ-T3100*	MXJ-T3800*
Liquid side		
	① x 1 EA	④ x 1 EA
Gas side		
	② x 1 EA	⑤ x 1 EA

Reducer



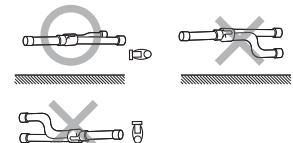
Model name	Total outdoor unit's capacities
MXJ-T3100*	Below 48 HP
MXJ-T3800*	Above 50 HP

Connecting Method

Installing the Y-joint

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

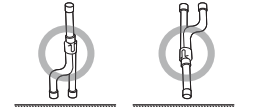
<Install horizontally>



<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.

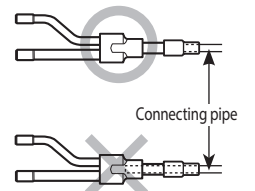
<Install vertically>



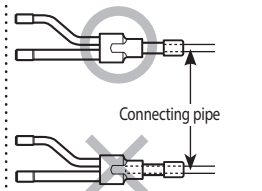
Keep a minimum distance of 500mm or more before connecting a branch joint.

<Insertion depth of the connecting pipe>

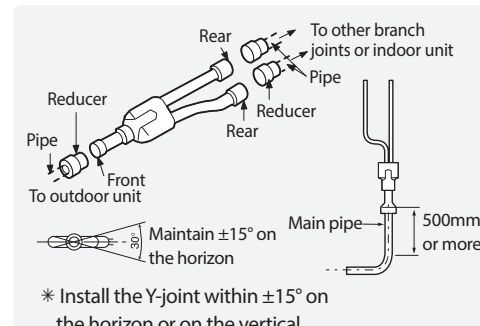
* Basic specification



* When cutting the connection part

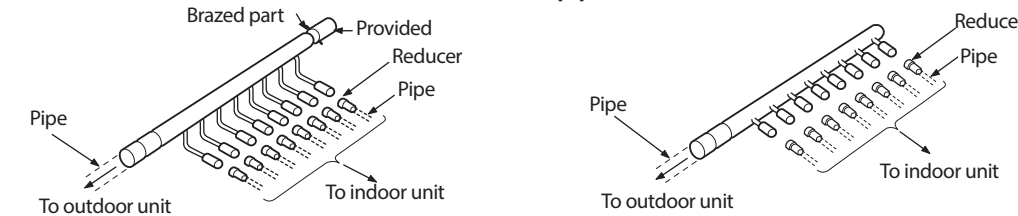


Do not insert the pipe deeply into the Y-joint. (Do not insert more than 70mm.)



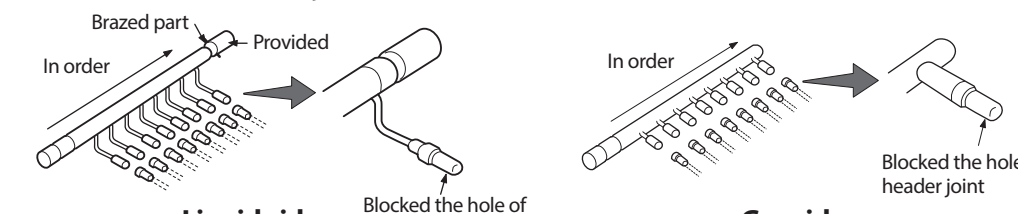
Installing the Header joint

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



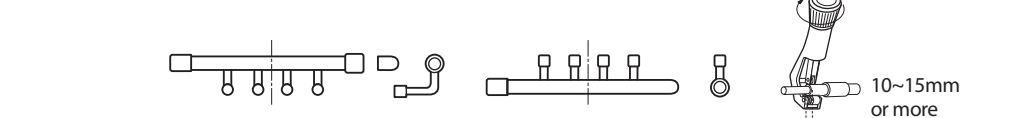
<Liquid side>

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.



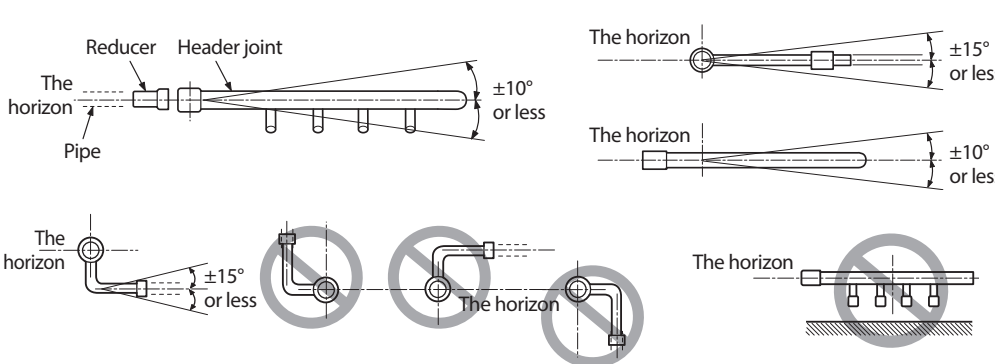
<Liquid side>

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.



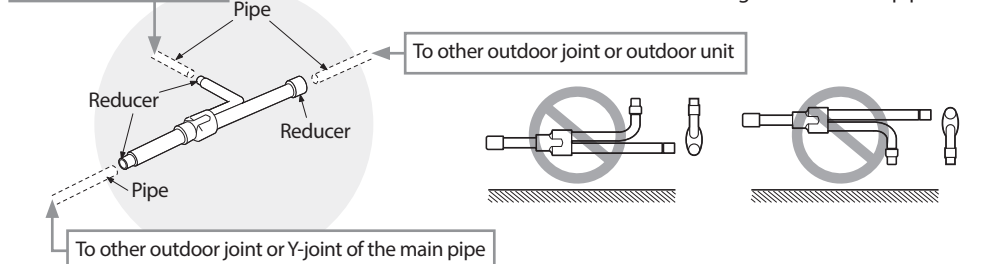
<Liquid side>



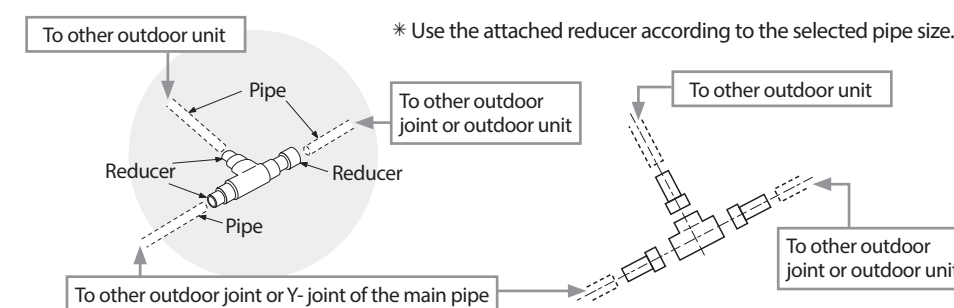
<Gas side>

Installing the Outdoor joint

* Use the attached reducer according to the selected pipe size.

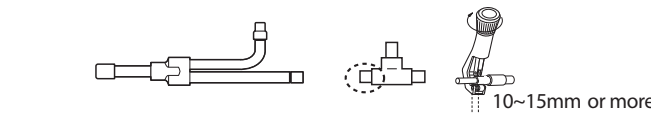


<Liquid side>

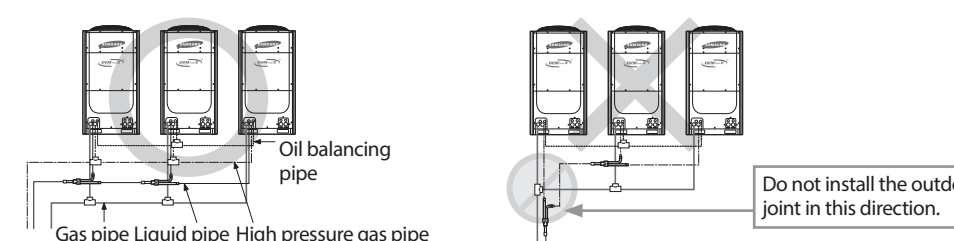


<Gas side>

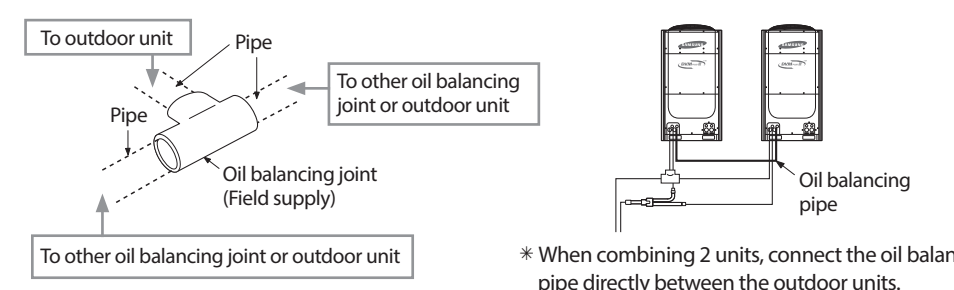
Connect the Outdoor joint to the pipe by cutting the outlet of the Outdoor joint or provided reducer properly.



Installation of outdoor joints



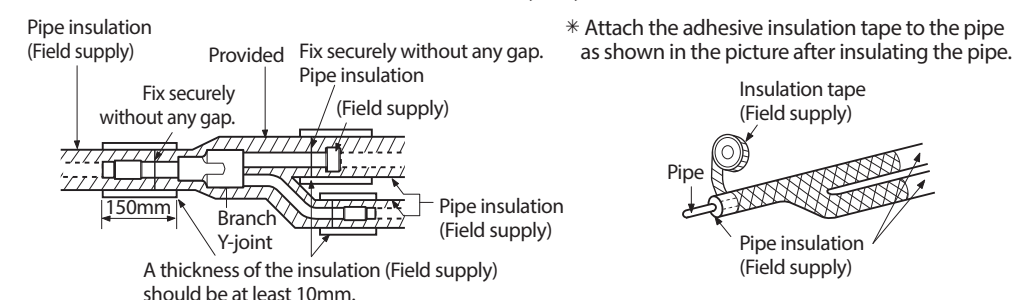
Installing the Oil balancing joint



Insulating the branch joint

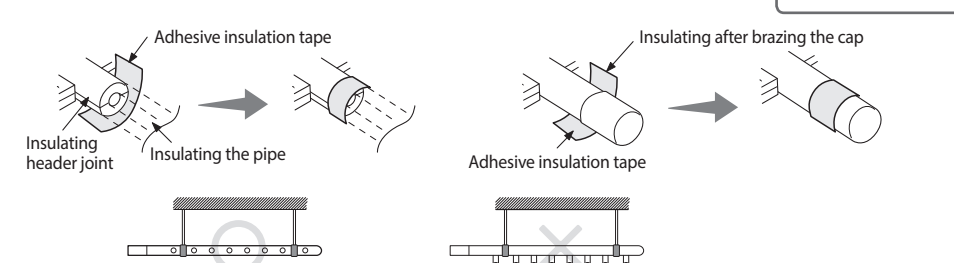
Y-joint & liquid side of the outdoor unit

- ◆ 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.



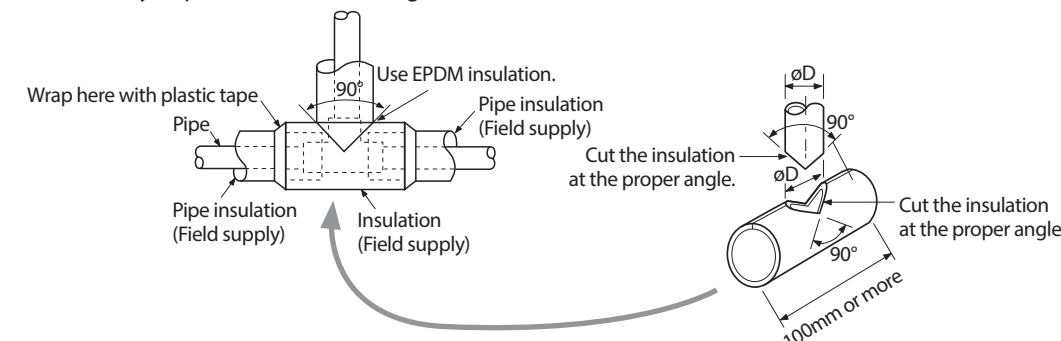
Header joint

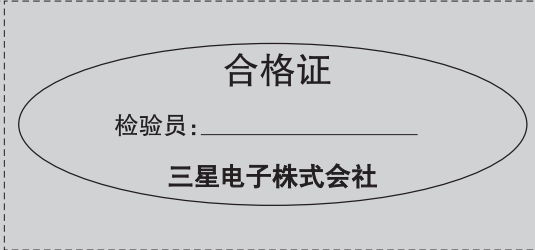
- ◆ Cover the connected part and fasten the header joint using a cable tie.
- ◆ Insulate the header joint and the brazed part and wrap the connected part with an adhesive insulation tape to prevent it from dewing.



Oil balancing joint & gas side of the outdoor unit

- ◆ 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 as shown in the diagram.
- ◆ Wrap the connected part between the Outdoor joint and the gas side of the outdoor unit to prevent it from defrosting. Wrap the oil balancing joint and gas side pipe of the outdoor unit wholly to prevent it from dewing.





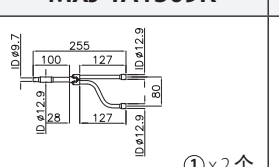
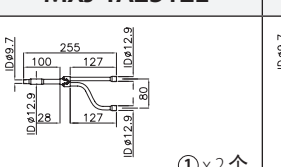
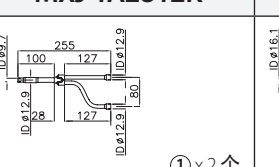
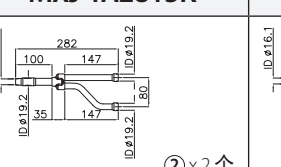
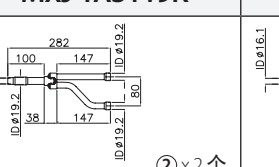
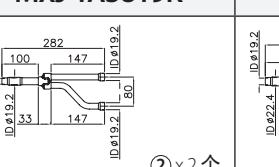
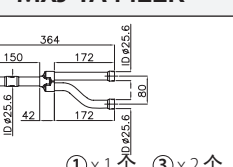
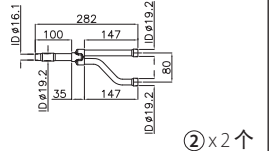
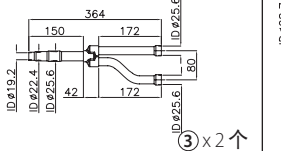
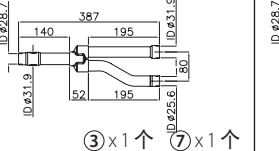
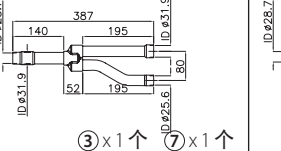
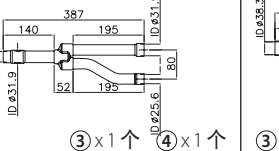
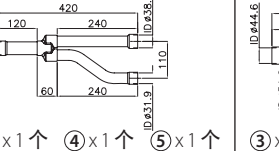
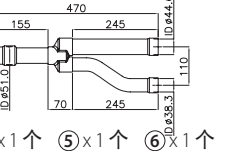
制 造 商：三星电子株式会社
原 产 地：韩国制造
销售商名称：三星（中国）投资有限公司
销售商地址：北京市朝阳区建国路乙118号京汇大厦2108室
使用产品前请仔细阅读本安装说明书，并请妥善保管。

DB98-33821A-05

安装手册

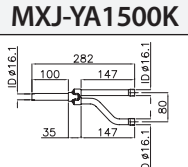
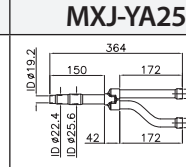
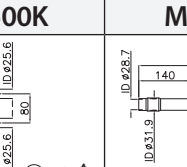
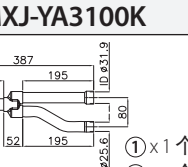
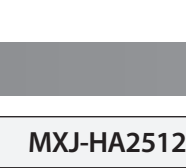
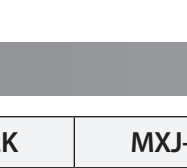
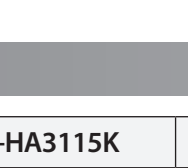
分歧管接头

Y形接头

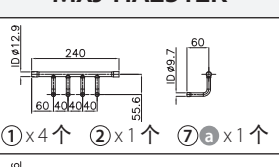
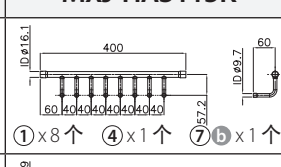
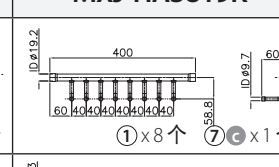
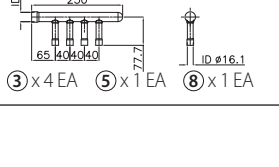
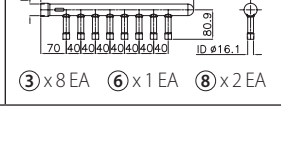
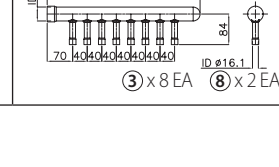
名称	型号	MXJ-YA1509K	MXJ-YA2512L	MXJ-YA2812K	MXJ-YA2815K	MXJ-YA3119K	MXJ-YA3819K	MXJ-YA4422K
液体侧		 ①×2个	 ①×2个	 ①×2个	 ②×2个	 ②×2个	 ②×2个	 ①×1个 ③×2个
气体侧		 ②×2个	 ③×2个	 ③×1个 ⑦×1个	 ③×1个 ⑦×1个	 ③×1个 ④×1个	 ③×1个 ④×1个 ⑤×1个	 ③×1个 ⑤×1个 ⑥×1个

承口	型号	室内机总容量
①	MXJ-YA1509K	< 15.0 kW
②	MXJ-YA2512L	> 15.0~40.6 kW
③	MXJ-YA2812K	> 40.6~46.4 kW
④	MXJ-YA2815K	> 46.4~69.6 kW
⑤	MXJ-YA3119K	> 69.6~98.6 kW
⑥	MXJ-YA3819K	> 98.6~139.2 kW
⑦	MXJ-YA4422K	> 139.2 kW

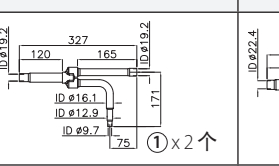
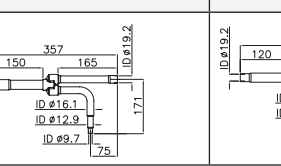
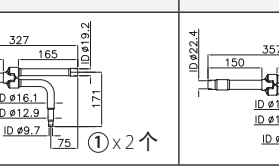
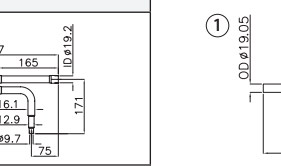
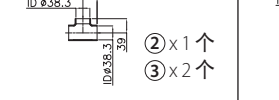
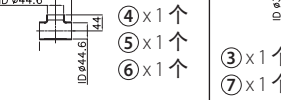
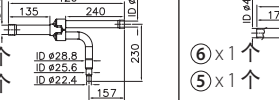
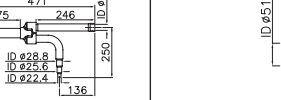
HR Y形接头(高压气体)

型号	MXJ-YA1500K	MXJ-YA2500K	MXJ-YA3100K	MXJ-YA3800K
液体侧	 ①×2个	 ①×2个	 ①×1个 ②×1个	 ①×1个 ②×1个 ③×1个
气体侧	 ③×4EA ⑤×1EA ⑧×1EA	 ③×8EA ⑥×1EA ⑧×2EA	 ③×8EA ⑥×1EA ⑧×2EA	 ③×8EA ⑥×1EA ⑧×2EA

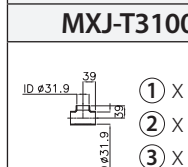
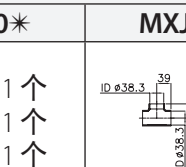
歧管接头

名称	型号	MXJ-HA2512K	MXJ-HA3115K	MXJ-HA3819K
液体侧		 ①×4个 ②×1个 ⑦×1个	 ①×8个 ④×1个 ⑦×1个	 ①×8个 ⑦×1个
气体侧		 ③×4EA ⑤×1EA ⑧×1EA	 ③×8EA ⑥×1EA ⑧×2EA	 ③×8EA ⑥×1EA ⑧×2EA

户外接头

名称	型号	MXJ-T3819*	MXJ-T4422*	MXJ-TA3819L	MXJ-TA4422L
液体侧		 ①×2个	 ④×1个 ⑤×1个 ⑥×1个	 ③×1个 ⑦×1个	 ⑤×1个
气体侧		 ②×1个 ③×2个	 ④×1个 ⑤×1个 ⑥×1个	 ③×1个 ⑦×1个	 ⑤×1个

HR户外接头(高压气体)

型号	MXJ-T3100*	MXJ-T3800*
承口	 ①×1个 ②×1个 ③×1个	 ④×1个 ⑤×1个 ⑥×1个

要求事项

- 根据天花板内的空气条件可能会出现绝缘材料表面结露现象。
- 如果天花板内部存在高温或湿度大于 80 %，应增加适当的绝缘以防止滴水。
- 配管或承口的堵塞部分应与焊接材料相分离。

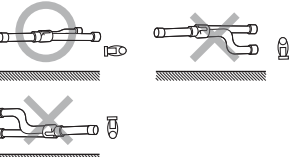


连接方法

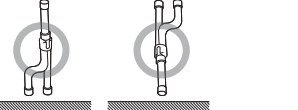
安装Y形接头

“水平”或“垂直”安装Y形接头。

<水平连接>



<垂直连接>



<使用承口>

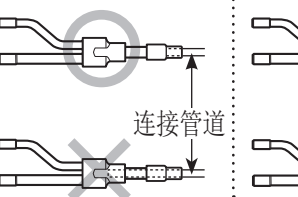
- 请根据连接配管的直径切割Y形接头(岔管)的连接部分或者提供的承口后使用。
- 确保连接配管的承口间隙为 10-15 mm 以上。
- 去除切割承口截面上的毛刺。如果配管变形或承口不整齐，无法连接承口和配管。

△ 注意

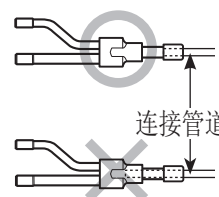
- 在连接分支接头之前，保持最小 500 mm 以上的距离。

<插入连接管道深度>

* 基本规格



* 切割连接部分时

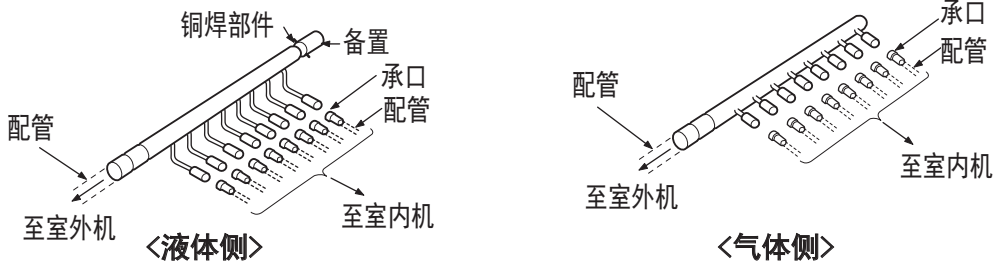


△ 注意

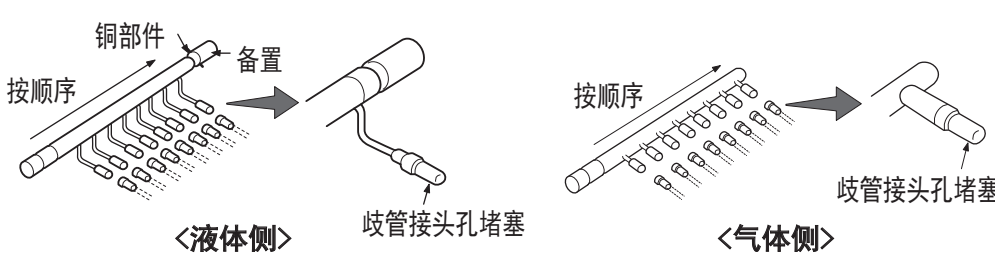
- 请勿将配管过深的插入 Y 形接头。(请勿使插入深度超过 70 毫米。)

安装歧管接头

- 选择与管道直径匹配的承口。



- 如果连接的室内机数量少于歧管连接孔时，用焊接堵头封住不使用的接口。

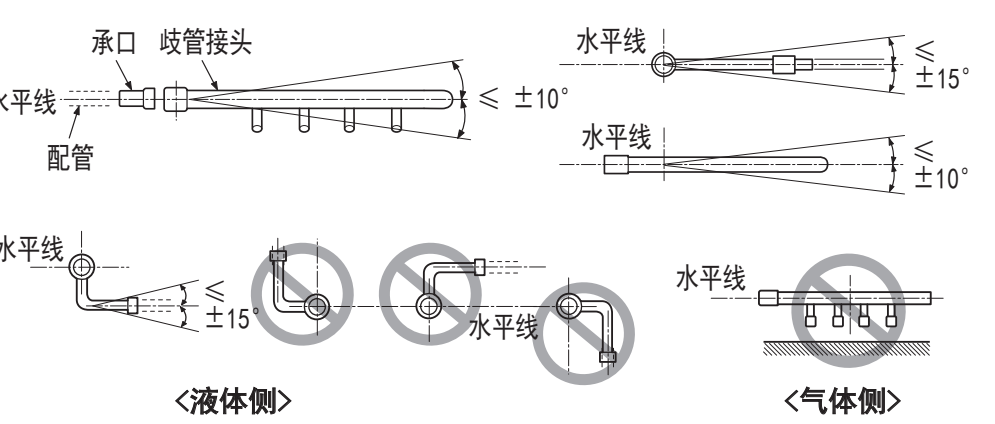


适当切割提供的承口将歧管接头连接到配管上。

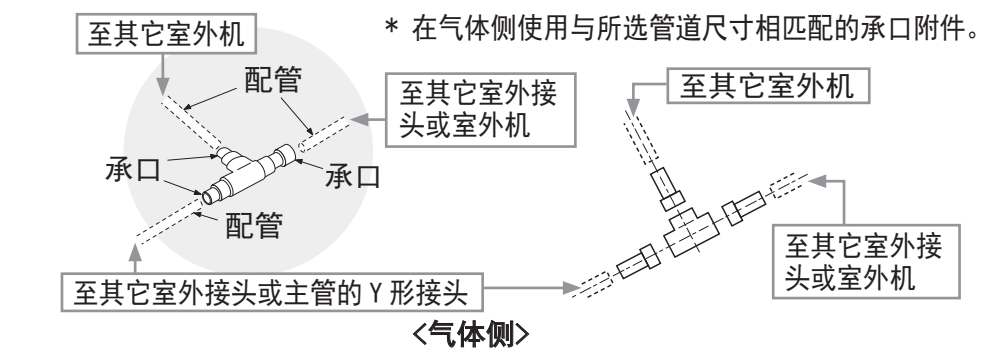
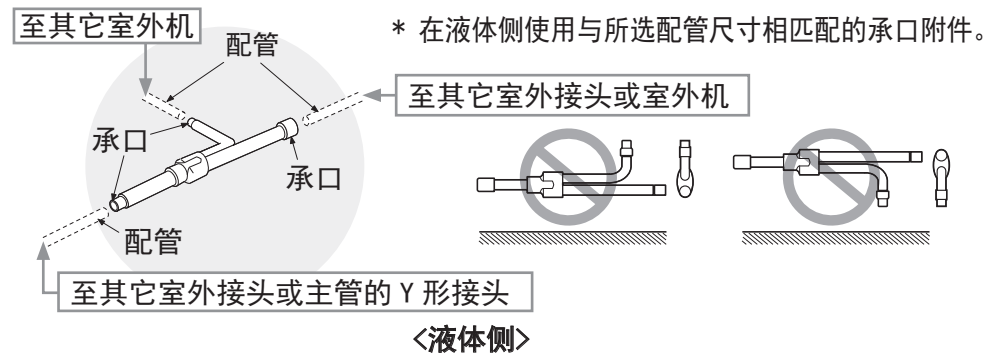
△ 注意

- 按照室内机的编号顺序连接分歧管接头。
- 连接室内机，先连接容量高的室内机。

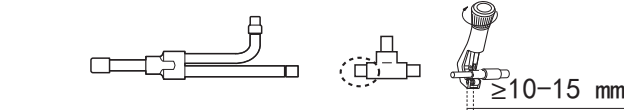
- 水平安装分歧管接头。



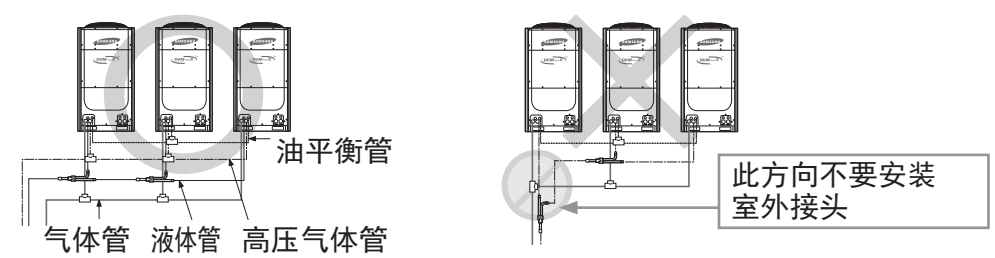
安装室外机接头



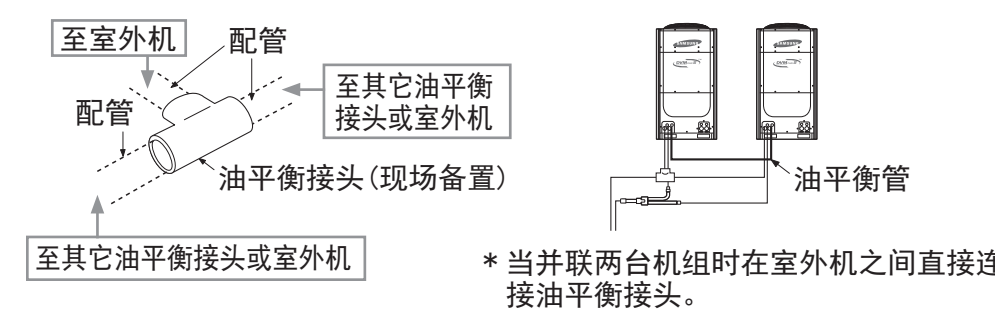
切割室外接头的出口或提供的承口将室外接头，正确连接室外接头和配管。



室外接头安装



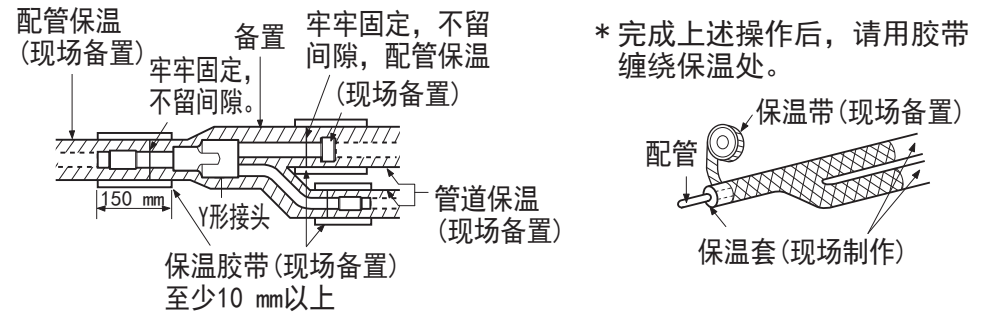
安装油平衡接头



分支接头保温

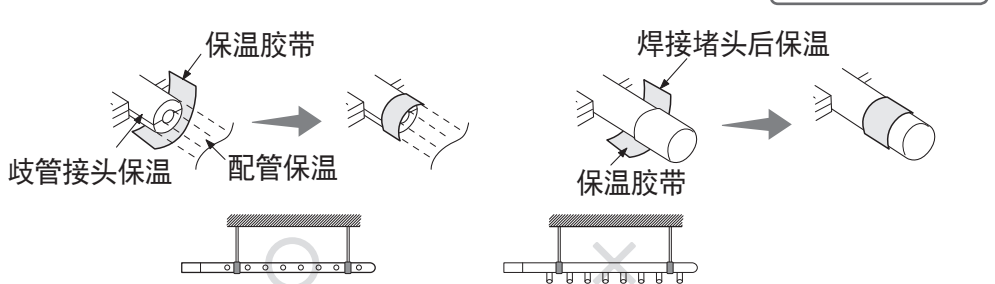
Y形接头和室外机液体侧接头保温

- 将随分支接头提供的保温材料安装到与现场备置的保温材料连接到一起，不要留有间隙。至少要用 10 mm 厚的保温材料(现场配置)保缠连接部件。
- 使用能耐 120 °C 以上高温的保温材料。分支接头保温厚度至少为 10 mm。
- 当在高温度 (30 °C, 80 % 以上) 下进行绝缘时，请再另外用 10 mm 的聚乙烯泡沫或类似材料将随供的绝缘部分缠绕。



分歧管接头

- 用电缆扎带扎紧分歧管接头并封住连接部位。
- 分歧管接头和焊接部位保温，用保温胶带缠绕连接部位以防止结霜。



油平衡接头和室外机气体侧

- 使用能耐 120 °C 以上高温的保温材料。
- 使用 10 mm 以上厚度的保温材料包缠分支管接头，如图所示。
- 包缠室外接头和室外机气侧之间的连接部件，以防止结霜。包缠油平衡接头和这个室外机的气侧管路以防止结霜。

