OUTDOOR UNIT BRANCH KIT

INSTALLATION MANUAL

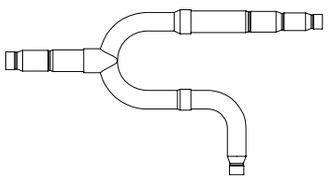
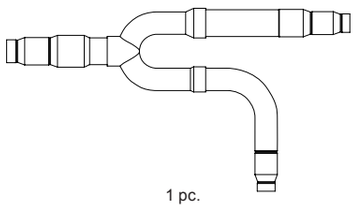
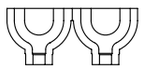
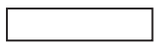
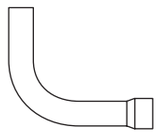
For authorized service personnel only.

(PART NO. 9371636191-03)

- This manual describes the “Installation Specifications for Outdoor Unit Branch Kit”. For the “outdoor unit”, refer to the installation manual supplied with the outdoor unit, and for the “indoor unit”, refer to the installation manual supplied with the indoor unit.
- Please read this manual thoroughly prior to installation, and perform the installation work in accordance with the instructions.
- Before performing the installation work, thoroughly read the “Safety Precautions” in the installation manual supplied with the outdoor unit, and work accordingly.
- After installing the unit, perform a test run to make sure the unit operates normally. Then, explain to the customer how to operate and maintain the unit in accordance with the operating manual (supplied with the indoor unit).
- Hand this manual, together with the operating manual, to the customer. Request the customer to keep them on hand.

1 PARTS LIST

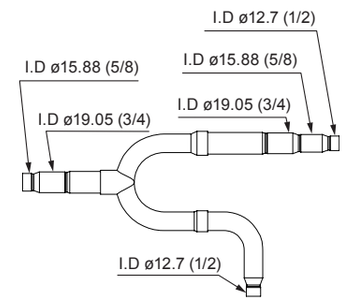
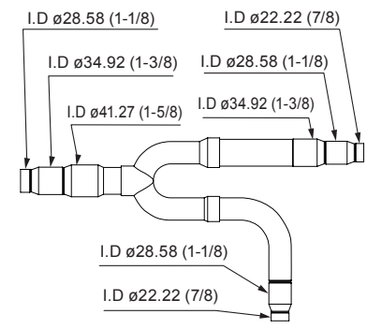
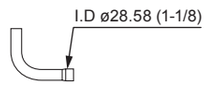
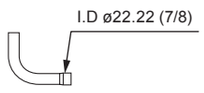
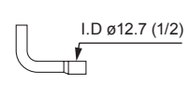
KIT NAME: UTP-CX567A

Description	
Liquid pipe	Gas pipe
 1 pc.	 1 pc.
Insulation	Tape
 Large: 1 pc. Small: 1 pc.	 8 pcs.
L-Joint	
 I.D Φ28.58 mm (1-1/8 in.) : 2 pcs. I.D Φ22.22 mm (7/8 in.): 2 pcs. I.D Φ12.7 mm (1/2 in.): 2 pcs.	

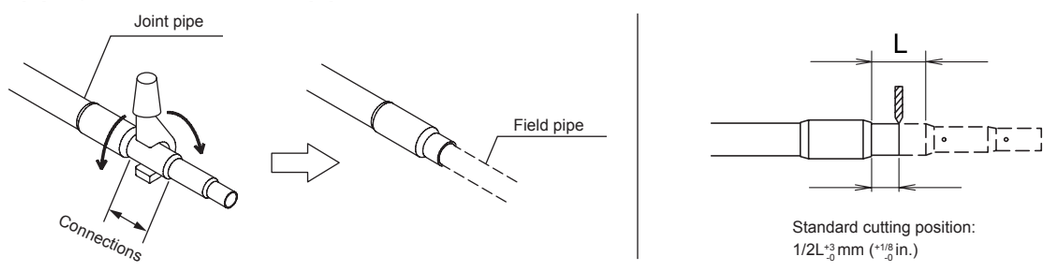
2 INSTALLATION PROCEDURE

1. The following table shows the sizes of the inlet and outlet pipes of the connection pipes.

KIT NAME: UTP-CX567A

Description	Unit: mm (in.)
Liquid pipe	Gas pipe
	
L-Joint	
	 

2. Select the connections with the pipe diameters that match the selected pipe sizes from the connection pipes, and cut them with a pipe cutter.

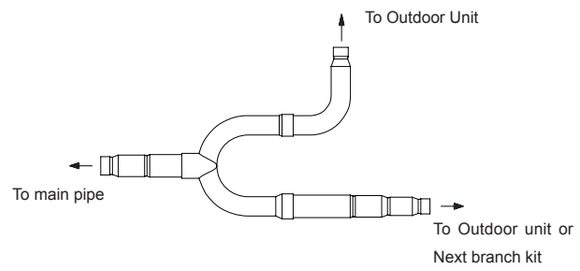


NOTE: Insert the field pipe firmly until it touches the joint pipe (Branch kit).

⚠ CAUTION

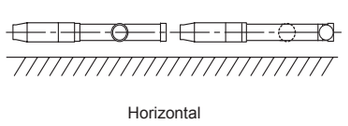
Use a pipe cutter to cut a pipe. Point the pipe downward while deburring so that cutting chips will not enter inside the pipe.

3. The installation direction for BRANCH KIT is shown as follows.

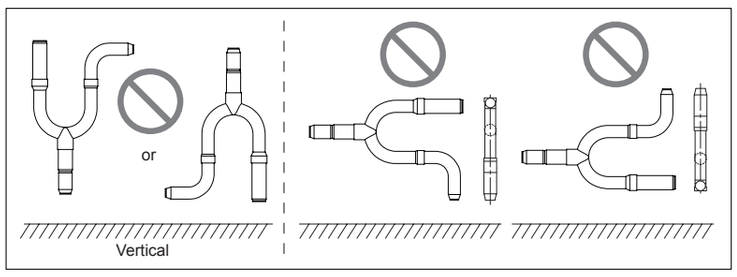


4. Place the connection pipes horizontally so that the refrigerant separates evenly. They cannot be used vertically.

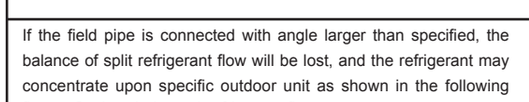
GOOD



PROHIBITED

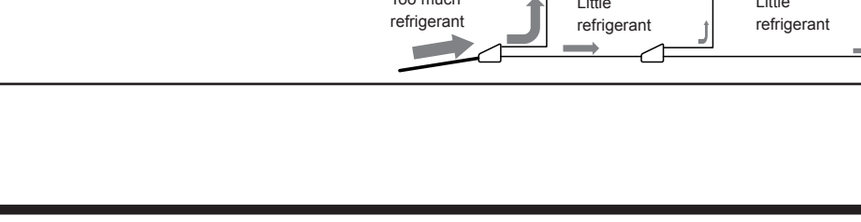


- Use L-joints as necessary.



⚠ CAUTION

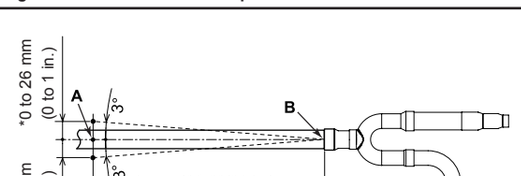
Keep the angle of the connection pipe within ± 10°. Otherwise, it will not separate the refrigerant evenly, causing a reduction in performance.



- **During piping work, apply nitrogen gas while brazing the pipes. If pipes are brazed without applying nitrogen gas, it will create a large amount of oxidation film, which will cause a critical malfunction.**
- **To prevent moisture or foreign matter from entering during work, do not leave the piping open.**
- **Refer to the Installation Manual supplied with the outdoor unit for airtightness test and evacuation procedures.**

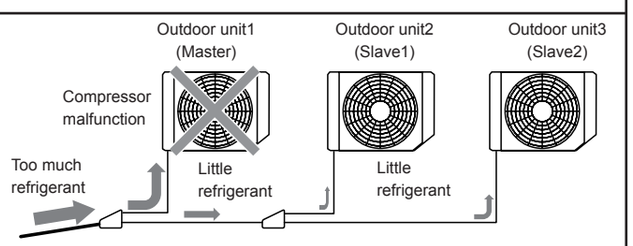
About the connecting curvature of field pipe and branch kit:

The field pipe should be connected to the branch kit so that the curved angle on each side is 3 degree or less.



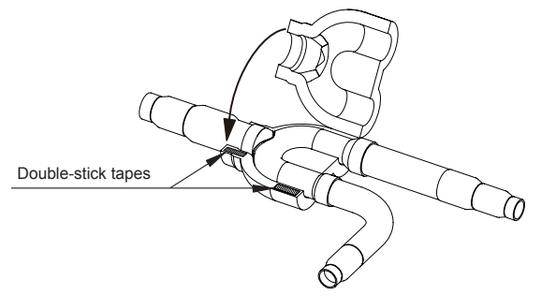
*: Allowed value based on “A” (center of field pipe) at 0.5 m (19-11/16 in.) from “B” (junction of the branch kit).

If the field pipe is connected with angle larger than specified, the balance of split refrigerant flow will be lost, and the refrigerant may concentrate upon specific outdoor unit as shown in the following figure. Such unbalanced refrigerant flow may cause a compressor malfunction.

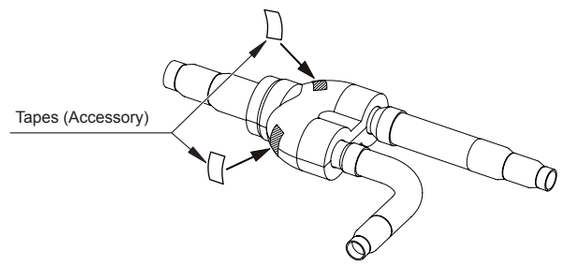


5. After brazing the pipes, use the supplied insulation to insulate them. (on liquid and gas pipes)

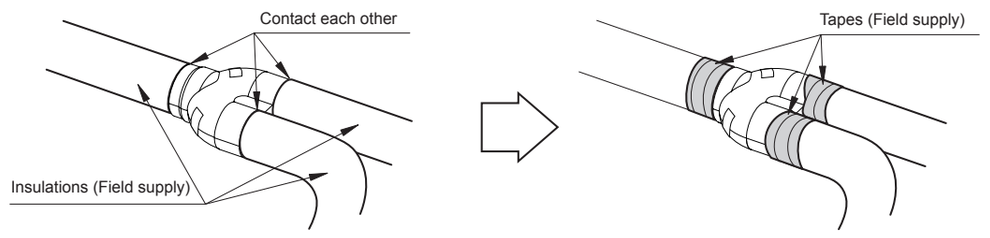
1) Remove the protective sheet from the double-stick tape that is affixed to the heat insulation.



2) Be sure to install the tape (Accessory) in each heat insulation to the 2 positions as shown in the following figure.



3) Use tape (Field supply) to seal the seam so that there will be gap at the junction between the aforementioned heat insulation and the heat insulation on the local piping.



⚠ CAUTION

- **Insulate the liquid and gas pipe completely. If not, it may cause the water condensation or performance reduction.**
- **Wrap the heat insulation with tape or pipe cover in order to extend the life time of heat insulation.**
- **Take proper measurement to strengthen by using another heat insulation at the following installing environment.**
  (a) Environment temperature ≥ 35°C (95°F) and humidity 85%.
  (b) Environment temperature ≥ 25°C (77°F) and humidity 90%.