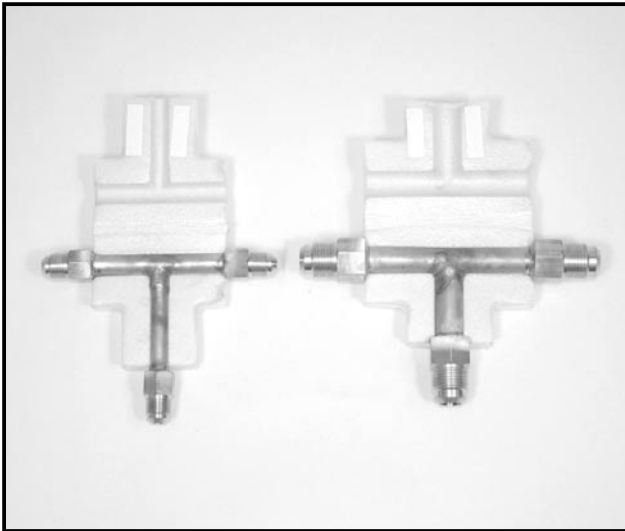


## Photo



## Descriptions

For double-branching of the refrigerant piping to connect 2 branch boxes. (Flare connection type)

## Applicable Models

- MXZ-8A140VA
- PAC-AK30BC
- PAC-AK50BC

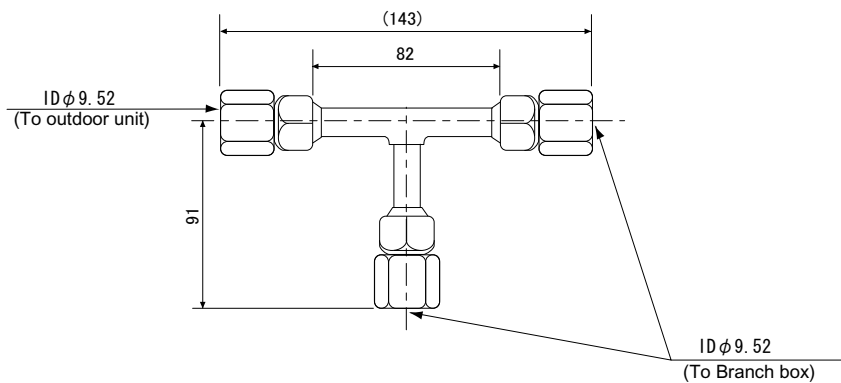
## Specifications

TO BE CONFIRMED

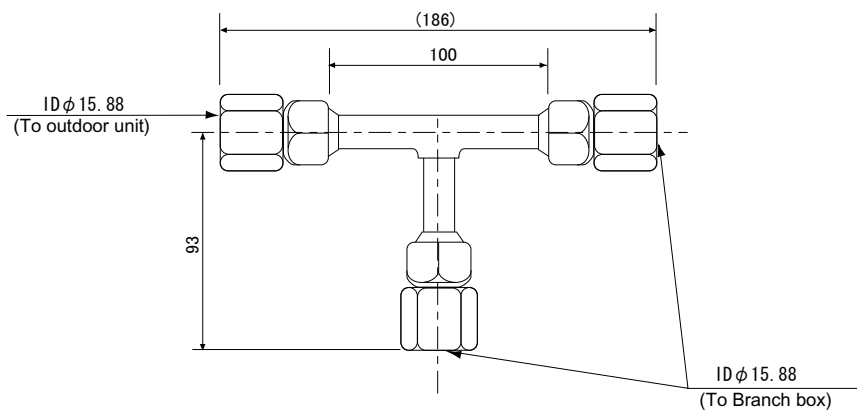
## Dimensions

Unit : mm

### LIQUID PIPE



### GAS PIPE



# How to Use / How to Install

## 2-BRANCH PIPE(JOINT) (MSDD-50AR-E)

※In case of 2 branch box connection for flare connection

Applicable model
MXZ-8A140VA(R410A type)
PAC-AK50BC
PAC-AK30BC

### The kit contains followings

① Manual This one-sheet manual	② Liquid pipe (small: $\phi$ 9.52) X1	③ Gas pipe (large: $\phi$ 15.88) X1	④ Heat-insulation cover (small) X1	⑤ Heat-insulation cover (large) X1
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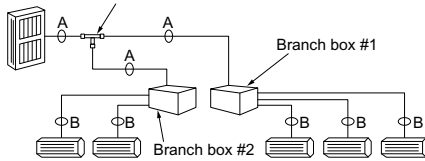
Note: Besides these, please procure the following locally:  
 (1) Tape for sealing the heat insulation covers.  
 (2) Extension pipes for the refrigerant system.

### During installation, be careful about the followings

- Note the limit length of the refrigerant pipe refer to the installation manual of outdoor unit and branch box.
- Note the limits for installing the indoor units refer to the installation manual of outdoor unit and branch box.
- In connecting pipes, take care not to let any dirt or other foreign matter enter any pipe.
- Put a heat insulator into every refrigerant pipe.

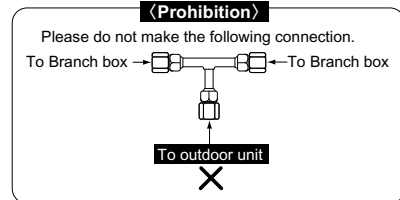
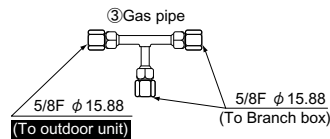
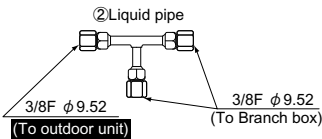
### Outline of system and pipe size

Outdoor unit      2branches pipe(joint): optional part explained by this manual

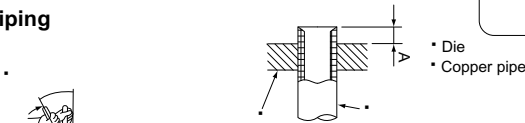
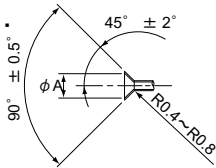


	A	B
Liquid(mm)	$\phi$ 9.52	Refer to installation manual of outdoor unit and branch box
Gas(mm)	$\phi$ 15.88	

### See the following for the specifications of liquid pipe, and gas pipe



### Installing the refrigerant piping



- When bending the pipes, be careful not to break them. Bend radii of 100mm to 150mm are sufficient.
- Make sure the pipes do not contact the compressor. Abnormal noise or vibration may result.

- Pipes must be connected starting from the indoor unit. Flare nuts must be tightened with a torque wrench.
- Flare the liquid pipes and gas pipes and apply a thin layer of refrigeration oil (Applied on site).
- When usual pipe sealing is used, refer to Table 1 for flaring of R410A refrigerant pipes. The size adjustment gauge can be used to confirm A measurements.

- Flare cutting dimensions
- Flare nut tightening torque

Copper pipe O.D. (mm)	Flare dimensions $\phi$ A dimensions (mm)
$\phi$ 9.52	12.8-13.2
$\phi$ 15.88	19.3-19.7

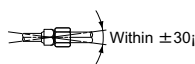
Copper pipe O.D. (mm)	Flare nut O.D. (mm)	Tightening torque (N·m)*
$\phi$ 9.52	22	34-32
$\phi$ 15.88	29	68-82

Table 1

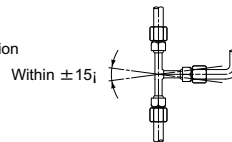
Copper pipe O.D. (mm)	A (mm)	
	Flare tool for R410A	Flare tool for R22-R407C
	Clutch type	
$\phi$ 9.52(3/8")	0-0.5	1.0-1.5
$\phi$ 15.88(5/8")	0-0.5	1.0-1.5

### Installation direction of joint

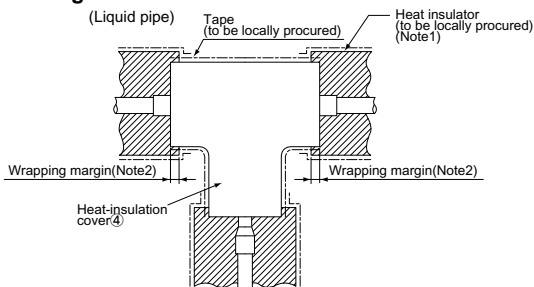
Horizontal direction



Vertical direction



### Installing Heat Insulation Cover and Heat Insulators



- The liquid pipe (small:  $\phi$  9.52) Make it fit the heat-insulation cover (small). Seal the mating of the heat-insulation cover with the tape for sealing heat insulators (to be locally procured).

- Do the same with the gas pipe (large:  $\phi$  15.88), using the heat-insulation cover (large), as with the liquid pipe (small).

Note 1 : Install a heat insulator on every part of the refrigerant pipes (to be locally procured). If you want to use commercially-available heat insulators, use heat-resistant heat insulators (at least 12mm thick).

Note 2 : The pipe covers shrink a little under high heat. Therefore, allow for some wrapping margin in the heat insulators.