

5. Installing the refrigerant piping

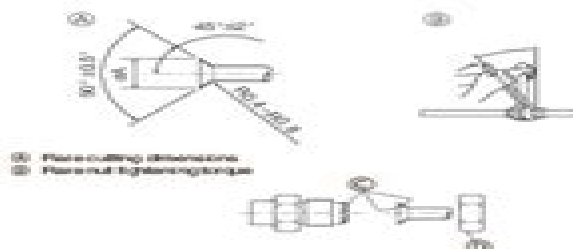


Fig. 5-1

(A) (Fig. 5-1)

Copper pipe O.D. (mm)	Flare dimensions A/B dimensions (mm)
φ6.35	8.7 - 8.9
φ9.52	12.6 - 13.3
φ12.7	16.5 - 16.6
φ15.88	19.8 - 19.9
φ19.05	23.6 - 24.0

(B) (Fig. 5-1)

Copper pipe O.D. (mm)	Flare nut O.D. (mm)	Tightening torque (N·m)
φ6.35	17	1.4 - 1.6
φ9.52	20	3.4 - 4.2
φ12.7	22	3.4 - 4.2
φ15.88	25	4.9 - 5.4
φ19.05	28	8.9 - 10.0
φ22.22	32	12.0 - 13.0
φ25.40	36	15.0 - 16.0

5.1. Precautions for devices that use R410A refrigerant

- Refer to page 2 for precautions not included before air conditioning with R410A refrigerant.
- Use water oil, ether oil, ethylbenzene oil (small amount) on the refrigeration oil applied to the flare sections.
- Use C1220-copper phosphorus, for copper and copper alloy seamless pipes. To connect the refrigerant pipes, use refrigerant pipes with the thickness specified in the table in the below. Make sure the inside of the pipes are clean and do not contain any harmful contaminants such as sulfur compounds, oxides, debris, or dust.
- Always use a non-oxidizing brazing material when brazing the pipes. The compressor will be damaged if this type of brazing material is not used.

Warning

When installing air conditioning the air conditioning, use only the specified refrigerant (R410A) to charge the refrigerant lines. Do not mix it with any other refrigerant and do not allow air to remain in the lines. Air in the lines can cause pressure peaks resulting in a rupture and other hazards.

Pipe size (mm)	φ6.35	φ9.52	φ12.7	φ15.88	φ19.05	φ22.22	φ25.40	φ28.58
Thickness (mm)	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.2

- Do not use pipes thinner than those specified above.

5.2. Connecting pipes (Fig. 5-1)

- When connecting and/or the copper pipes are used, wrap liquid and gas pipes with commercially available insulation materials (heat resistant to 100 °C or more, thickness of 12 mm or more).
- The indoor parts of the discharge pipes should be wrapped with polyethylene foam insulation materials (specific gravity of 0.03, thickness of 3 mm or more).
- Apply thin layer of refrigerant oil to pipe and joint using gloves before tightening flare nut. (B)
- Use two wrenches to tighten piping connections. (C)
- Use leak detector or soap water to check for gas leaks after connections are complete.
- Apply refrigerating machine oil over the entire flare seal surface. (D)
- Do not apply to threaded portion. (It will cause the flare nut to loosen.)
- Use the flare nuts as follows. (E)

	R410A	R410A	R410A	R410A
Gas side	Flare nut (mm)	φ12.7	φ15.88	φ19.05
Liquid side	Flare nut (mm)	φ15.88	φ19.05	φ22.22
	Indoor nut	12	15	19

* 1: The flare nuts attached to its pipe.

* 2: The flare nuts in the multi distribution pipe assembly.

- Do not use the flare nut attached. If it is used, a gas leakage or even a pipe extrusion may occur.
- When connecting the pipes, be careful not to break them. Breakage of 100 mm to 150 mm are sufficient.
- Make sure the pipes do not contact the compressor. Abnormal noise or vibration may result.

(C) Pipes must be connected starting from the indoor unit.

(D) Flare nuts must be tightened with a torque wrench.

(E) After the liquid pipes and gas pipes, and apply a thin layer of refrigerant oil to the pipe and joint.

- When used pipe sealing is used, refer to Table 1 for fitting of R410A refrigerant pipes.

The size adjustment gauge can be used to confirm A measurements.

- Always use a non-oxidizing brazing material when brazing the pipes. Only use good quality brazing materials.

Mitsubishi Installation Manual Puhz Yha

Jessica J Manson



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