



# Example Of Tubing Size Selection And Refrigerant Charge Amount - Sanyo Mini ECO-i SPW- ASR74GXH56(A/B) Installation Instructions Manual

System air conditioner



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### 1-15. Example of Tubing Size Selection and Refrigerant Charge Amount

#### Additional refrigerant charging

Based on the values in Tables 1-2, 1-3, 1-4 and 1-7, use the liquid tubing size and length, and calculate the amount of additional refrigerant charge using the formula below.

Required additional  
refrigerant charge (kg)

(a): Liquid tubing

Charging procedure

Be sure to charge with R410A refrigerant in liquid form.

1. After performing a vacuum, charge with refrigerant from the liquid tubing side. At this time, all valves must be in the "fully closed" position.
2. If it was not possible to charge the designated amount, operate the system in Cooling mode while charging with refrigerant from the gas tubing side. (This is performed at the time of the test run. For this, all valves must be in the "fully open" position.)

Charge with R410A refrigerant in liquid form.

With R410A refrigerant, charge while adjusting the amount being fed a little at a time in order to prevent liquid refrigerant from backing up.

After charging is completed, turn all valves to the "fully open" position.

Replace the tubing covers as they were before.

Tightening torque for valve stem cap: 19~21 N·m



**CAUTION**

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$$= [56 \times (a) + 26 \times (b)] \times 10$$

Total length of  $\phi 9.52$  (m)

Tightening torque: 34~42 N·m

- 1. R410A additional charging absolutely must be done through liquid charging.**
- 2. The R410A refrigerant cylinder has a gray base color, and the top part is pink.**
- 3. The R410A refrigerant cylinder includes a siphon tube. Check that the siphon tube is present. (This is indicated on the label at the top of the cylinder.)**
- 4. Due to differences in the refrigerant, pressure, and refrigerant oil involved in installation, it is not possible in some cases to use the same tools for R22 and for R410A.**

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Total length of  $\phi 6.35$  (m)

(b): Liquid tubing ●

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Tightening torque: 68~82 N·m

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Tightening torque for valve stem cap: 28~32 N·m

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