

Air Purging; Air Purging With A Vacuum Pump (For Test Run) Preparation - Sanyo Mini ECO-i SPW-ASR74GXH56(A/B) Installation Instructions Manual

System air conditioner

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6. AIR PURGING

Air and moisture in the refrigerant system may have undesirable effects as indicated below.

pressure in the system rises

operating current rises

cooling (or heating) efficiency drops

moisture in the refrigerant circuit may freeze and

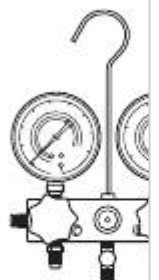
block capillary tubing

water may lead to corrosion of parts in the refrigerant system

Therefore, the indoor unit and tubing between the

indoor and outdoor unit must be leak tested and

evacuated to remove any noncondensables and moisture from the system.



Air Purging with a Vacuum Pump (for Test Run)

Preparation

Check that each tube (both liquid and gas tubes) between the indoor and outdoor units has been properly connected and all wiring for the test run has been completed. Remove the valve caps from both the gas tube and liquid tube service valves on the outdoor unit. Note that both liquid and gas tube service valves on the outdoor unit are kept closed at this stage.

Leak test

(1) Attach a manifold valve (with pressure gauges) and dry nitrogen gas cylinder to this service port with charge hoses.

CAUTION

(2) Pressurize the system to no more than 36 kgf/cm with dry nitrogen gas and close the cylinder valve when the gauge reading reaches 36 kgf/cm. Then, test for leaks with liquid soap.

CAUTION

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Use a manifold valve for air purging. If it is not available, use a stop valve for this purpose. The "Hi" knob of the manifold valve must always be kept closed.

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G.

To avoid nitrogen entering the refrigerant system in a liquid state, the top of the cylinder must be higher than the bottom when you pressurize the system. Usually, the cylinder is used in a vertical standing position.

(Refer to the previous page.)

Manifold gauge

Manifold valve

Pressure

Lo

gauge

2

G

Gas

tube

Liquid

tube

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Fig. 6-1

Vacuum pump

Outlet

Inlet

Fig. 6-2

Hi

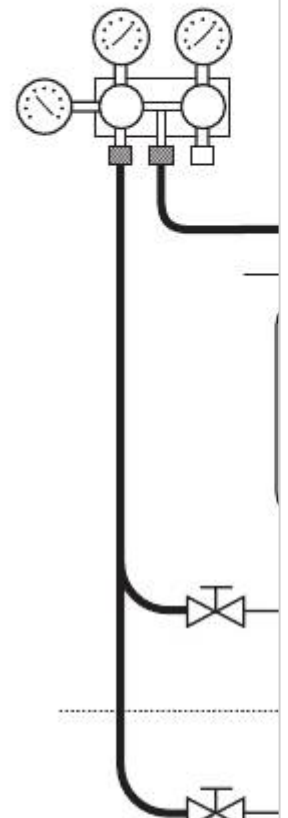
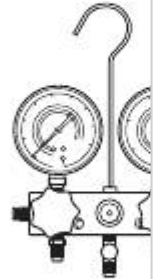
Charge hose

Cylinder

valve

Nitrogen gas cylinder

(In vertical standing



position)
Service port $\varnothing 7.94$ mm
Open
Close
Outdoor unit
Open
Close



Fig. 6-3

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