

Air Purging - Sanyo SPW-X483GH56 Installation Instruction

Eco multi system air conditioner

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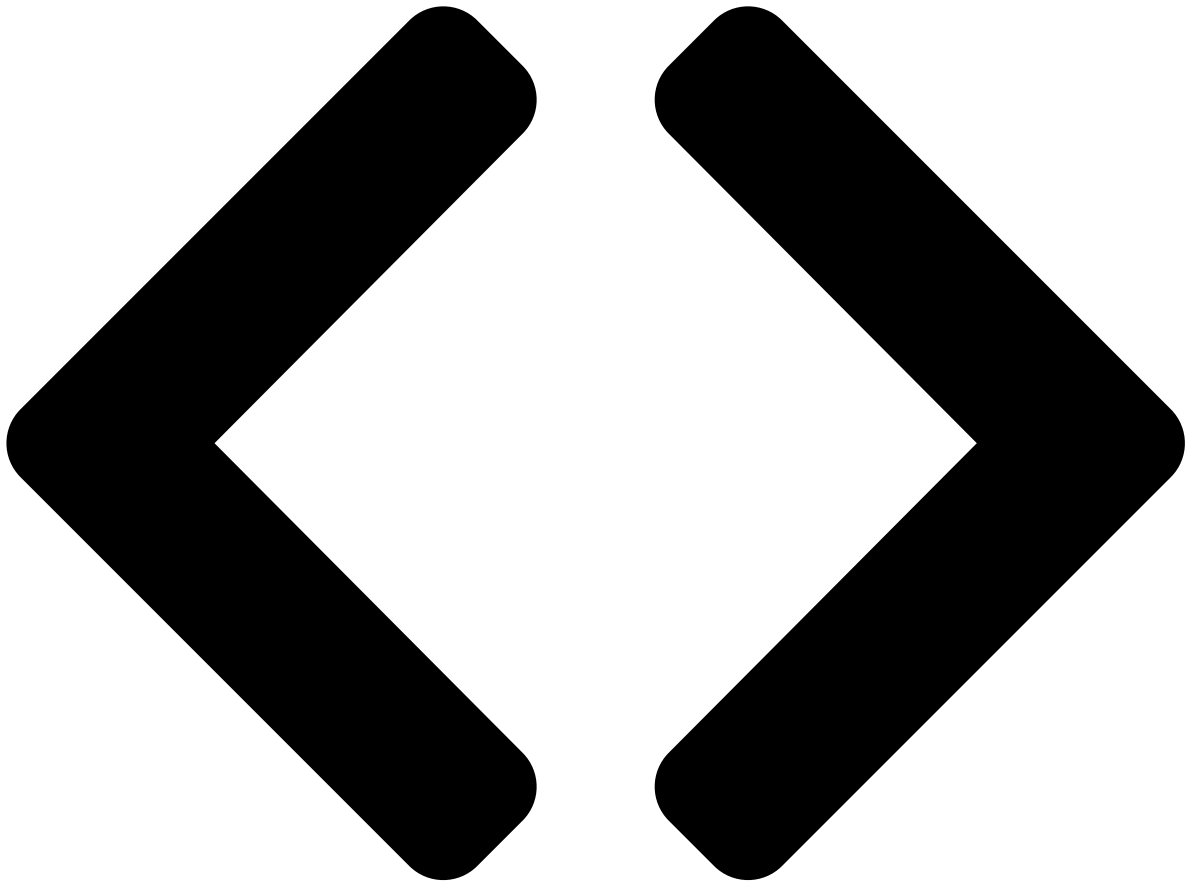
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Enlarged version

9.

AIR PURGING

9. AIR PURGING

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

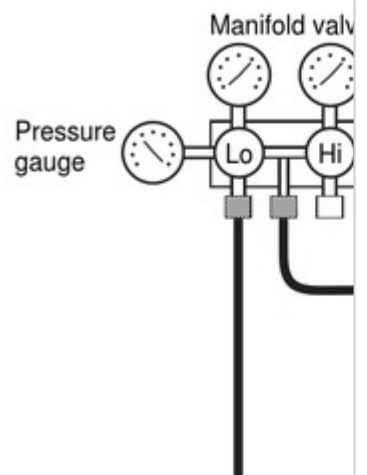
pressure in the system rises
operating current rises

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

evacuated to remove any noncondensables and corrosion of parts in the refrigerant system



moisture from the system.

Air Purging with a Vacuum Pump (for Test Run)

Preparation

Check that each tube (both narrow and wide) between the indoor and outdoor units have been properly

connected and all wiring for the test run has been completed. Remove the valve caps from both the wide and narrow service valves on the outdoor unit. Note

that both narrow and wide tube service valves on the outdoor unit are kept closed at this stage

Leak test

(1) With the service valves on the outdoor unit closed, remove the 1/4 in. flare nut and its bonnet on the wide tube service valve. (Save for reuse.)

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

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.

(3) Pressurize the system to no more than 30 kg/cm

with dry nitrogen gas and close the cylinder valve when the gauge reading reaches 30 kg/cm

Then, test for leaks with liquid soap

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

Pressure

gauge

Narrow

tube

Pressure

gauge

2

G

2

G.

Wide tube

75

75

S4179544

S4179544

Manifold valve

Lo

Hi

Charge hose

Nitrogen gas cylinder

(In vertical standing

position)

Outdoor unit

Service

valve

Wide tube

Indoor unit

Fig. 9-1

9. 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 narrow and wide) between the indoor and outdoor units have been properly connected and all wiring for the test run has been completed. Remove the valve caps from both the wide and narrow service valves on the outdoor unit. Note that both narrow and wide tube service valves on the outdoor unit are kept closed at this stage.

connected and all wiring for the test run has been completed. Remove the valve caps from both the wide and narrow service valves on the outdoor unit. Note that both narrow and wide tube service valves on the outdoor unit are kept closed at this stage.

Leak test

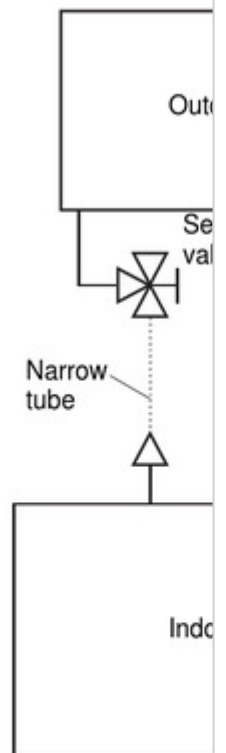
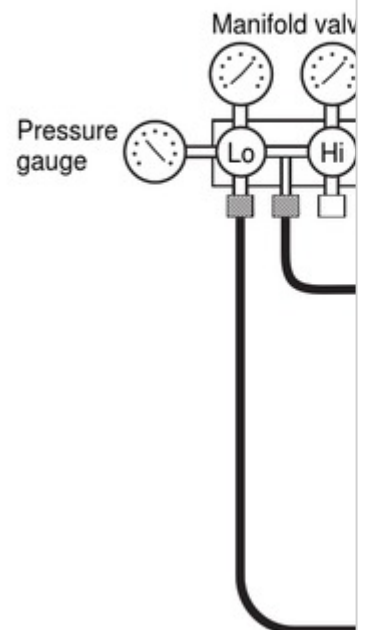
(1) With the service valves on the outdoor unit closed, remove the 1/4 in. flare nut and its bonnet on the wide tube service valve. (Save for reuse.)

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

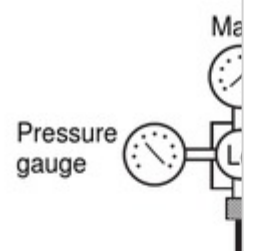


CAUTION

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



Fig

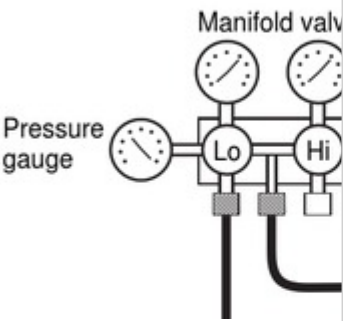


Manifold valve
Lo
Hi
Nitrogen gas
cylinder
Narrow tube
Fig. 9-2
11111
AS
22222
S
33333
X
0138_C_I
00000
C
0139_C_I

9. 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



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