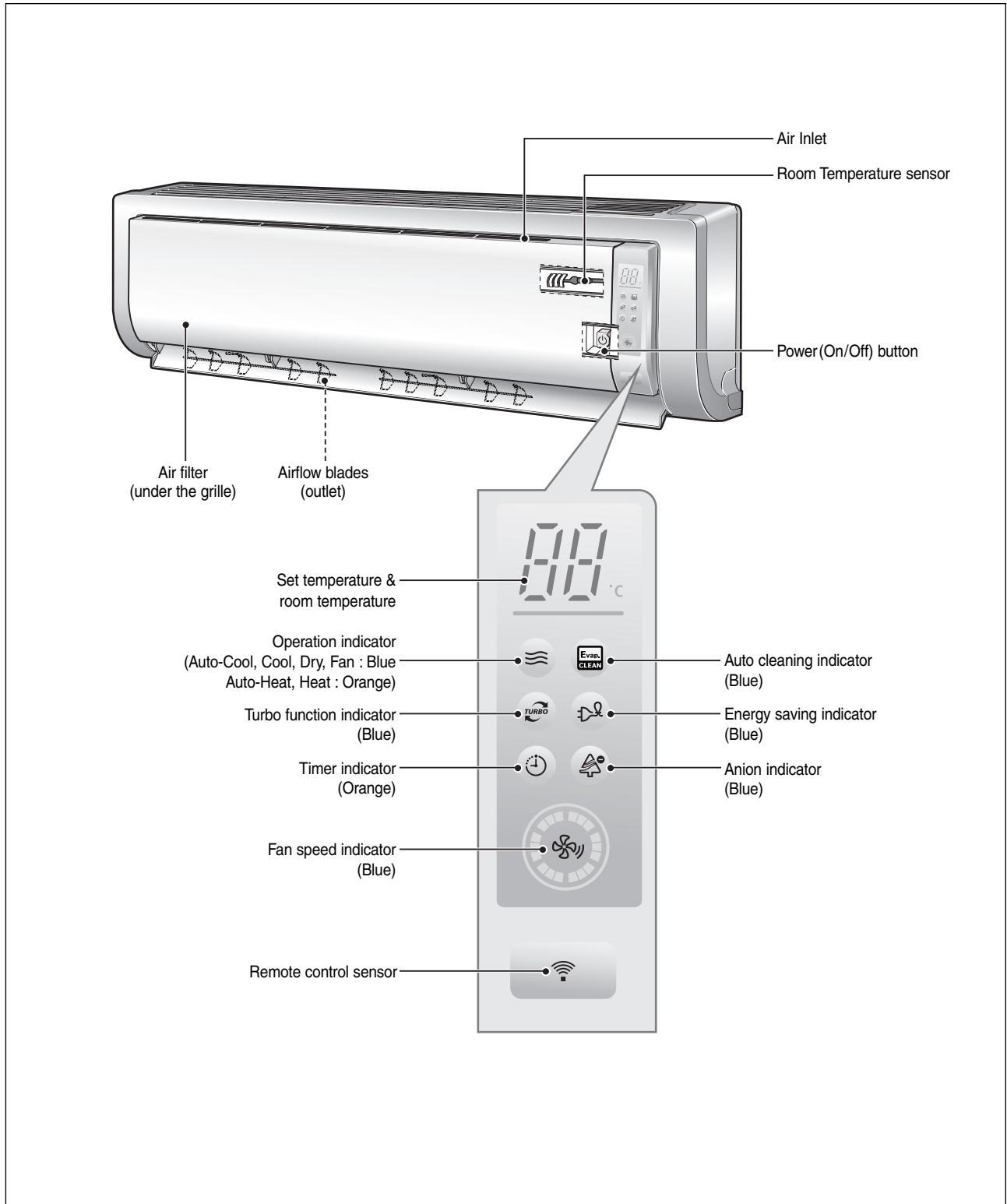


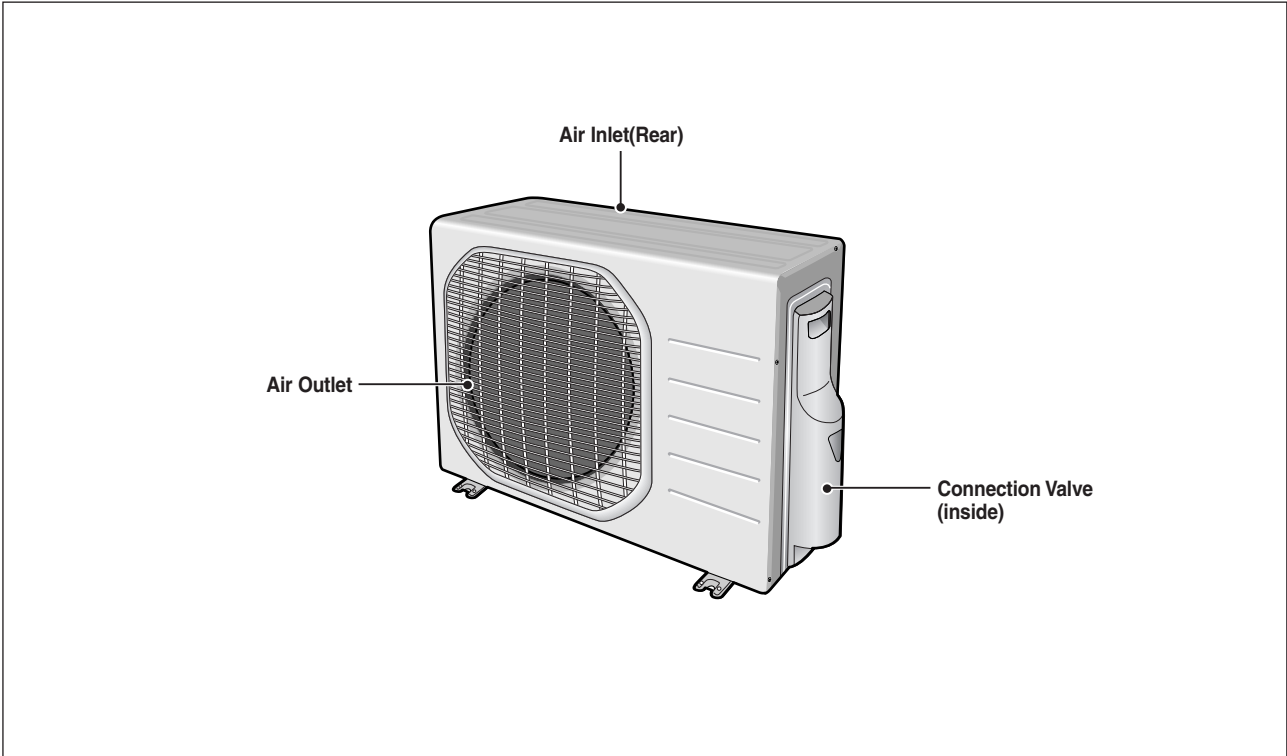
2. Operating Instructions & Installation

2-1 View of the Unit

2-1-1 Indoor Unit



2-1-2 Outdoor Unit

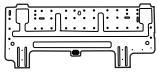

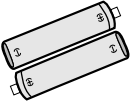




2-2 Air Conditioner and Accessories

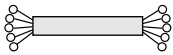
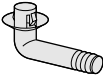

The following accessories are supplied with the air conditioner.

- The number of each accessory is indicated in parentheses.

2-2-1 Accessories in the Indoor Unit Case

<p>Installation Plate (1)</p> 	<p>Remote Control (1)</p> 	<p>Batteries for Remote Control (2)</p> 	<p>User's Manual (1)</p> 	<p>Installation Manual (1)</p> 
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



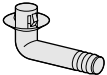




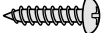


2-2-2 Accessories in the Outdoor Unit Case

<p>5-wire Assembly Cable (1)</p> 	<p>Drain Plug (1)</p> 	<p>Rubber Leg (4)</p> 
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- The flare nuts are attached to the end of each pipe of an evaporator or a service port. Use the nuts when connecting the pipes.
- The 5-wire assembly cable is optional. If it is not supplied, use the standard cable.
- The drain plug and rubber leg are only included when the air conditioner is supplied without the assembly pipe as seen in the picture below.

The following connection accessories are optional.

If they are not supplied, you should prepare them before installing the air conditioner.

<p>Assembly Pipe, ϕ6.35mm by 7.5m (1)</p> 	<p>Assembly Pipe, ϕ9.52mm by 7.5m (1)</p> 	<p>PE T3 Foam Tube Insulation (1)</p> 	<p>Vinyl Tape, Width 50mm (1)</p> 	<p>Drain Plug (1)</p> 	<p>Rubber Leg (4)</p> 
<p>Pipe Clamps A (3)</p> 	<p>Pipe Clamps B (3)</p> 	<p>Cement Nail (6)</p> 	<p>M4 x 16 Tapping Screws (10)</p> 	<p>Drain Hose, length 2m (1)</p> 	<p>Putty 100g (1)</p> 

- If these accessories are supplied, you can find them in the accessory box.

2-3 Installation

2-3-1 Before Installation

Keep the air conditioner outlet and inlet free from its surroundings.
In case of installation, keep the symmetry and fix it to prevent vibration.
The pipe length shall meet the standard as far as possible.

2-3-2 Installation Procedure

■ Location

Install the product in an area to guarantee the best cooling effect, convenience of piping and electric work, and inexistence of vibration or wind.

■ Wall Drilling

Drill the wall downward in a diameter of 60 to 65mm.

■ Fixing Indoor Unit & Outdoor Unit

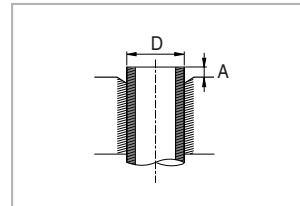
Fix the air conditioner indoor unit securely to the wall. Secure the outdoor unit in a suitable position.

■ Pipe Spooling & Connecting

You shall cut the pipe with a pipe cutter and grind all the burrs of the cut surface.
Pipe expansion may continue until the pipe surface becomes uneven or torn apart.
Be sure to use a torque wrench to tighten pipes or flare nuts.

<Torque & Depth>

Outer Diameter(D)	Torque(kgf-cm)	Depth(A)
6.35mm(1/4")	140~170	1.3mm
9.52mm(3/8")	250~280	1.8mm



■ Leak Test

Put an inert gas like nitrogen in the outdoor unit pipe and put soap bubbles or other test liquids on the pipe surface for the leak test.

■ Drain Hose Connecting

Install the drain hose downward to drain water naturally. Be sure to pour water into the hose to check if it drains well.

■ Electric & Earth Work

Electric and earth work shall meet the "Electric Facility Technology Standard" and the "Internal Wire Regulation" of the Electric Business Laws.

■ Inspection & Trial Run

Upon completion of the tests, you shall make a trial run while you explain the main functions of the air conditioner to finish the installation.

2-4 Installation Diagram of Indoor Unit and Outdoor Unit

2-4-1 Air-Purge Procedure

- 1) Connect each assembly pipe to the appropriate valve on the outdoor unit and tighten the flare nut.



- 2) Connect the charging hose of low pressure side of manifold gauge to the packed valve having a service port (3/8" Packed valve) as shown at the figure.



- 3) Open the valve of the low pressure side of manifold gauge counter-clockwise.



- 4) Purge the air from the system using vacuum pump for about 30 minutes.
 - After that, please recheck that pressure is stabilized.
 - Close the valve of the low pressure side of manifold gauge clockwise.
 - Remove the hose of the low pressure side of manifold gauge.



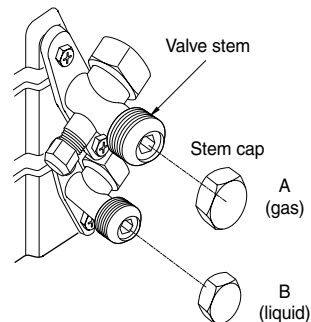
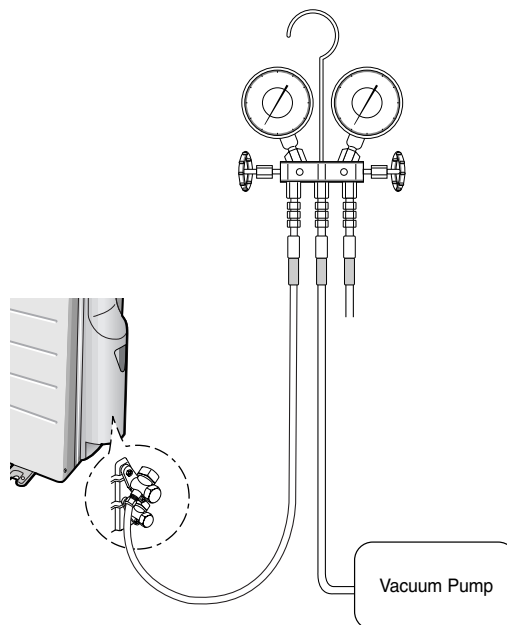
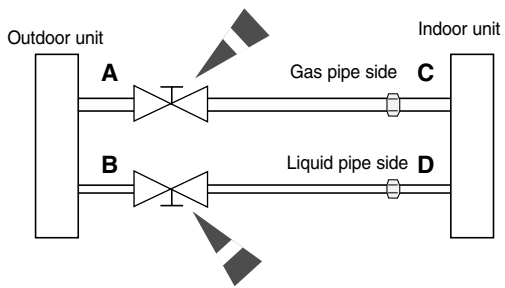
- 5) Set valve cork of both liquid side and gas side of packed valve to the open position.



- 6) Mount the valve stem nuts to the 2-Way and 3-Way valve. And mount the service port cap to 3-Way valve.



- 7) Check for gas leakage.
 - At this time, especially check for gas leakage from the 3-Way valve's stem nuts, and from the service port cap.



2-4-2 Refrigerant Refill(R410A)

Refill an air conditioner with refrigerant when refrigerant has been leaked at installing or using.

1) Purge air(for new installation only).



2) Turn the 3-Way valve clockwise to close, connect the pressure gauge (low pressure side) to the service valve, and open the 3-Way valve again.



3) Connect the tank to refill with refrigerant.



4) Set the unit to cool operation mode.



5) Check the pressure indicated by the pressure gauge(low pressure side).

*** Standard pressure is should be 9.0~10.0kg/cm² in a regular, high operation mode.**



6) Open the refrigerant tank and fill with refrigerant until the rated pressure is reached.

*** It is recommended not to pour the refrigerant in too quickly, but gradually while operating a pressure valve.**



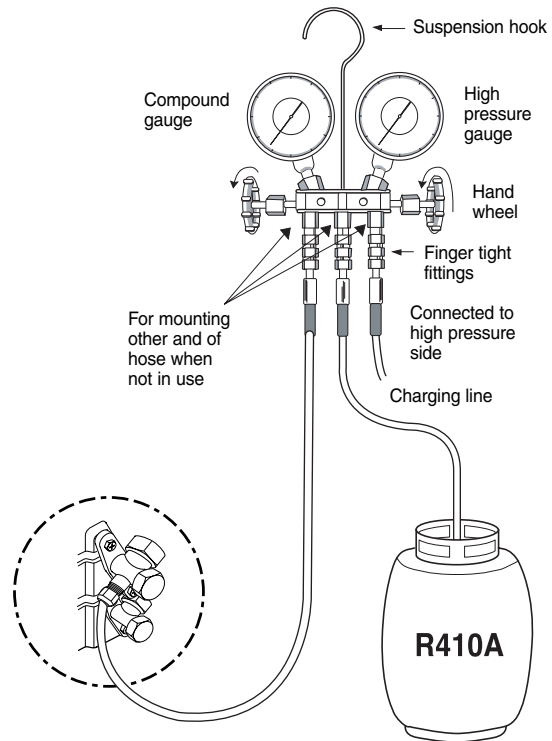
7) Stop operation of the air conditioner.



8) Close the 3-Way valve, disconnect the pressure gauge, and open the 3-Way valve again.



9) Close the cap of each valve.



2-4-3 "Pump down" Procedure

Pump down will be carried out when an evaporator is replaced or when the unit is relocated in another area.

1) Remove the caps from the 3-Way valve and the 3-Way valve.



2) Turn the 3-Way valve clockwise to close and connect a pressure gauge (low pressure side) to the service valve, and open the 3-Way valve again.



3) Set the unit to cool operation mode.
(Check if the compressor is operating.)



4) Turn the 3-Way valve clockwise to close.



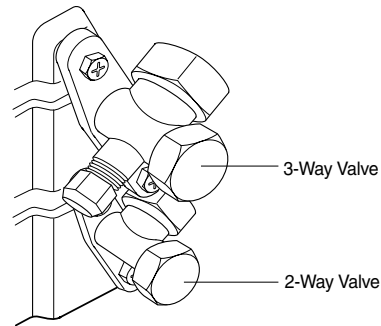
5) When the pressure gauge indicates "0" turn the 3-Way valve clockwise to close.



6) Stop operation of the air conditioner.



7) Close the cap of each valve.



Remarks

Relocation of the air conditioner

- Refer to this procedure when the unit is relocated.
- Carry out the pump down procedure (refer to the details of 'pump down').
- Remove the power cord.
- Disconnect the assembly cable from the indoor and outdoor units.
- Remove the flare nut connecting the indoor unit and the pipe.
- At this time, cover the pipe of the indoor unit and the other pipe using a cap or vinyl plug to avoid foreign material entering.
- Disconnect the pipe connected to the outdoor unit.
At this time, cover the valve of the outdoor unit and the other pipe using a cap or vinyl plug to avoid foreign material entering.
- Make sure you do not bend the connection pipes in the middle and store together with the cables.
- Move the indoor and outdoor units to a new location.
- Remove the mounting plate for the indoor unit and move it to a new location.