USER MANUAL

CG-12HP02DB
CG-18HP02DB
CG-24HP02DB

CG CHAUDHARY GROUP
Touching life everyday
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Remote controller operating instructions. See "remote controller instructions".
Safety Instructions

1. To guarantee the unit work normally, please read the manual carefully before installation, and try to install strictly according to this manual.
2. Do not let air enter the refrigeration system or discharge refrigerant when moving the air conditioner.
3. Properly ground the air conditioner into the earth.
4. Check the connecting cables and pipes carefully, make sure they are correct and firm before connecting the power of the air conditioner.
5. There must be an air-break switch.
6. After installing, the consumer must operate the air conditioner correctly according to this manual, keep a suitable storage for maintenance and moving of the air conditioner in the future.
7. Fuse of indoor unit: T3 15A 250VAC or T5A 250VAC. Please refer to the screen printing on the circuit board for the actual parameters, which must be consistent with the parameters on the screen printing.
8. The installation instructions for appliances that are intended to be permanently connected to fixed wiring, and have a leakage current that may exceed 10 mA, shall state that the installation of a residual current device (RCD) having a rated residual operating current not exceeding 30 mA is advisable.
9. Warning: Risk of electric shock can cause injury or death: Disconnect all remote electric power supplies before servicing.
10. The maximum length of the connecting pipe between the indoor unit and outdoor unit should be less than 5 meters. It will affect the efficiency of the air conditioner if the distance longer than that length.
11. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
12. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
13. The batteries in remote controller must be recycled or disposed of properly. Disposal of Scrap Batteries --- Please discard the batteries as sorted municipal waste at the accessible collection point.
14. If the appliance is fixed wiring, the appliance must be fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under over voltage category III conditions, and these means must be incorporated in the fixed wiring in accordance with the wiring rules. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
Safety instructions

15. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
16. The appliance shall be installed in accordance with national wiring regulations.
17. The air conditioner must be installed by professional or qualified persons.
18. The appliance shall not be installed in the laundry.
19. Regarding to installation, please refer to section “Installation instructions”.
20. Regarding to maintenance, please refer to section “Maintenance”.
When charging refrigerant into the system, make sure to charge in liquid state, if the refrigerant of the appliance is R22 or R410A. Otherwise, chemical composition of refrigerant (R22 or R410A) inside the system may change and thus affect performance of the air conditioner.

According to the character of refrigerant (R410A the value of GWP is 2088), the pressure of the tube is very high, so be sure to be careful when you install and repair the appliance.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

The air conditioner must be installed by a professional engineer.

The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

**Before using the air conditioner, be sure to check and preset as the following.**

**Remote Controller presetting**
Each time after the remote control is replaced with new batteries or is energized, remote control auto presetting heat pump. If the air conditioner you purchased is a Cooling Only one, heat pump remote controller can also be used.

**Back-light function (optional)**
Hold down any button of the remote controller for about 2 seconds, the back-light will be turned on. It will be turned off automatically after about 10 seconds.

**Auto Restart Presetting**
The air conditioner has Auto-Restart function.
You can set or cancel this function when the air conditioner is running.
- Hold down the emergency button (ON/OFF) for a few seconds, this function will be set if you hear beep twice. If you just hear beep once, this function will be canceled.

**Safeguarding the environment**
This appliance is made of recyclable or re-usable material. Scrapping must be carried out in compliance with local waste disposal regulations. Before scrapping it, make sure to cut off the mains cord so that the appliance cannot be re-used.
For more detailed information on handling and recycling this product, contact your local authorities who deal with the separate collection of rubbish or the shop where you bought the appliance.

**SCRAPPING OF APPLIANCE**
This appliance is marked according to the European Directive 2012/19/EC, Waste Electrical and Electronic Equipment (WEEE).

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.
Symbols in this Use and Care Manual are interpreted as shown below.

⚠️ Be sure not to do.

fillType

⚠️ Pay attention to such a situation.

⚠️ Grounding is essential.

⚠️ Warning: Incorrect handling could cause a serious hazard, such as death, serious injury, etc.

⚠️ Use correct power supply in accordance with the rating plate requirement. Otherwise, serious faults or hazard may occur or a fire may break out.

⚠️ Keep the power supply circuit breaker or plug from dirt. Connect the power supply cord to it firmly and correctly, lest an electric shock or a fire break out due to insufficient contact.

⚠️ Do not use the power supply circuit breaker or pull off the plug to turn it off during operation. This may cause a fire due to spark, etc.

⚠️ Do not touch the operation buttons when your hands are wet.

⚠️ It is harmful to your health if the cool air reaches you for a long time. It is advisable to let the air flow be deflected to all the room.

⚠️ Never insert a stick or similar obstacle to the unit. Since the fan rotates at high speed, this may cause an injury.

⚠️ Do not repair the appliance by yourself. If this is done incorrectly, it may cause an electric shock, etc.

⚠️ Do not put any objects on the outdoor unit.

⚠️ Do not knit, pull or press the power supply cord, lest the power supply cord be broken. An electric shock or fire is probably caused by a broken power supply cord.

It is the user’s responsibility to make the appliance be grounded according to local codes or ordinances by a licenced technician.
Installation instructions

Installation diagram

- Distance from wall should be over 50mm
- Distance from ceiling should be over 200mm
- Distance from the obstacle should be over 3000mm
- Distance from floor should be over 2900mm
- Distance from the wall should be over 50mm
- Air intake distance from the wall should be over 250mm
- Air outlet distance from the wall should be over 50mm
- Air intake distance from the wall should be over 250mm

* Above figure is only a simple presentation of the unit, it may not match the external appearance of the unit you purchased.
* Installation must be performed in accordance with the national wiring standards by authorized personnel only.
Installation instructions

Select the installation location

Location for Installing Indoor Unit

- Where there is no obstacle near the air outlet and air can be easily blown to every corner.
- Where piping and wall hole can be easily arranged.
- Keep the required space from the unit to the ceiling and wall according to the installation diagram on previous page.
- Where the air filter can be easily removed.
- Keep the unit and remote controller 1m or more apart from television, radio etc.
- Keep as far as possible from fluorescent lamps.
- Do not put anything near the air inlet to obstruct it from air absorption.
- Install on a wall that is strong enough to bear the weight of the unit.
- Install in a place that will not increase operation noise and vibration.
- Keep away from direct sunlight and heating sources. Do not place flammable materials or combustion apparatuses on top of the unit.

Location for Installing Outdoor Unit

- Where it is convenient to install and well ventilated.
- Avoid installing it where flammable gas could leak.
- Keep the required distance apart from the wall.
- The pipe length between indoor and outdoor unit should be not more than 5 meters in factory default status, but it can go up to maximum 15 meters with additional refrigerant charge.
- Keep the outdoor unit away from greasy dirt, vulcanization gas exit.
- Avoid installing it by the roadside where there is a risk of muddy water.
- A fixed base where it is not subject to increased operation noise.
- Where there is not any blockage of the air outlet.
- Avoid installing under direct sunlight, in an aisle or sideline, or near heat sources and ventilation fans. Keep away from flammable materials, thick oil fog, and wet or uneven places.

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. allowed pipe length without additional refrigerant (m)</th>
<th>Limit of pipe length (m)</th>
<th>Limit of Elevation Difference H (m)</th>
<th>Required amount of additional refrigerant (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7K–18K</td>
<td>5</td>
<td>15</td>
<td>5</td>
<td>20</td>
</tr>
<tr>
<td>21K–25K</td>
<td>5</td>
<td>15</td>
<td>5</td>
<td>30</td>
</tr>
<tr>
<td>30K,36K</td>
<td>5</td>
<td>15</td>
<td>5</td>
<td>40</td>
</tr>
</tbody>
</table>

If the height or pipe length is out of the scope of the table, please consult the dealer.
Installation instructions

Indoor unit installation

1. Installing the Mounting Plate
   - Decide an installing location for the mounting plate according to the indoor unit location and piping direction.
   - Keep the mounting plate horizontally with a horizontal ruler or dropping line.
   - Drill holes of 32mm in depth on the wall for fixing the plate.
   - Insert the plastic plugs to the hole, fix the mounting plate with tapping screws.
   - Inspect if the mounting plate is well fixed. Then drill a hole for piping.

   ![Mounting plate diagram]

   *Note: The shape of your mounting plate may be different from the one above, but the installation method is similar.*

   *Note: As the above figure shown, the six holes matched with tapping screw on the mounting plate must be used to fix the mounting plate, the others are prepared.*

2. Drill a Hole for Piping
   - Decide the position of hole for piping according to the location of mounting plate.
   - Drill a hole on the wall. The hole should tilt a little downward toward outside.
   - Install a sleeve through the wall hole to keep the wall tidy and clean.

   ![Sleeve diagram]

   Indoor
   Wall hole sleeve (hard polythene tube prepared by user)
   Outdoor
   5mm (tilt downward)

3. Indoor Unit Piping Installation
   - Put the piping (liquid and gas pipe) and cables through the wall hole from outside or put them through from inside after indoor piping and cables connection complete so as to connect to outdoor unit.
   - Decide whether saw the unloading piece off in accordance with the piping direction (as shown below)

   ![Piping direction diagram]

   Piping direction
   Unloading piece
   Trough
   Saw the unloading piece off along the trough

   1 2 3 4

   *Note: When installing the pipe at the directions 1, 2 or 4, saw the corresponding unloading piece off the indoor unit base.*

   - After connecting piping as required, install the drain hose. Then connect the power cords. After connecting, wrap the piping, cords and drain hose together with thermal insulation materials.
Installation instructions

- **Piping Joints Thermal Insulation:**
  Wrap the piping joints with thermal insulation materials and then wrap with a vinyl tape.

- **Piping Thermal Insulation:**
  a. Place the drain hose under the piping.
  b. Insulation material uses polyethylene foam over 6mm in thickness. 
  Note: Drain hose is prepared by user.

- Drain pipe should point downward for easy drain flow.
  Do not arrange the drain pipe twisted, sticking out or wave around, do not immerse the end of it in water.
  If an extension drain hose is connected to the drain pipe, make sure to thermal insulated when passing along the indoor unit.

- When the piping is directed to the right, piping, power cord and drain pipe should be thermal insulated and fixed onto the back of the unit with a piping fixer.

A. Insert the pipe fixer to the slot.  
B. Press to hook the pipe fixer onto the base.

Piping Connection:
  a. Before unscrewing the big and the small sealing caps, press the small sealing cap with the finger until the exhaust noise stops, and then loosen the finger.
  b. Connect indoor unit pipes with two wrenches. Pay special attention to the allowed torque as shown below to prevent the pipes, connectors and flare nuts from being deformed and damaged.
  c. Pre-tighten them with fingers at first, then use the wrenches.
  Note: The unit of 18K, 24K, 36K is bigger than the unit of 18K, 24K, 36K.

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe size</th>
<th>Torque</th>
<th>Nut width</th>
<th>Min. thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,7,8,9,10,12,14,15,18,24K</td>
<td>Liquid Side (Ø 6mm or 1/4 inch)</td>
<td>15〜20N-m</td>
<td>17mm</td>
<td>0.5mm</td>
</tr>
<tr>
<td>18K, 22, 24K, 28, 30, 36K</td>
<td>Liquid Side (Ø 9.53mm or 3/8 inch)</td>
<td>30〜35N-m</td>
<td>22mm</td>
<td>0.6mm</td>
</tr>
<tr>
<td>5,7,8,9,10K</td>
<td>Gas Side (Ø 9.53mm or 3/8 inch)</td>
<td>30〜35N-m</td>
<td>22mm</td>
<td>0.6mm</td>
</tr>
<tr>
<td>12, 14, 15, 18K</td>
<td>Gas Side (Ø 12mm or 1/2 inch)</td>
<td>50〜55N-m</td>
<td>24mm</td>
<td>0.6mm</td>
</tr>
<tr>
<td>18K*, 22, 24, 28, 30, 36K</td>
<td>Gas Side (Ø 16mm or 5/8 inch)</td>
<td>60〜65N-m</td>
<td>27mm</td>
<td>0.6mm</td>
</tr>
<tr>
<td>36K</td>
<td>Gas Side (Ø 19mm or 3/4 inch)</td>
<td>70〜75N-m</td>
<td>32mm</td>
<td>1.0mm</td>
</tr>
</tbody>
</table>

Note: The unit of 18K*, 24K*, 36K* is bigger than the unit of 18K, 24K, 36K.
4. Connecting of the Cable

- Indoor Unit

Connect the power connecting cord to the indoor unit by connecting the wires to the terminals on the control board individually in accordance with the outdoor unit connection.

Note: For some models, it is necessary to remove the cabinet to connect to indoor unit terminal.

- Outdoor Unit

1). Remove the access door from the unit by loosening the screw. Connect the wires to the terminals on the control board individually as the following.
2). Secure the power connecting cord onto the control board with cable clamp.
3). Reinstall the access door to the original position with the screw.
4). Use a recognized circuit breaker for 24K model or above between the power source and the unit. A disconnecting device to adequately disconnected all supply lines must be fitted.

Caution:
1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, refer to the circuit diagram posted on the inside of the access door.
2. Confirm that the cable thickness is as specified in the power source specification.
3. Check the wires and make sure that they are all tightly fastened after cable connection.
4. Be sure to install an earth leakage circuit breaker in wet or moist area.

Cable Specifications

<table>
<thead>
<tr>
<th>Capacity (Btu/h)</th>
<th>Power cord Type</th>
<th>Normal cross-sectional area</th>
<th>Power connecting cord Type</th>
<th>Normal cross-sectional area</th>
<th>Power connecting cord Type</th>
<th>Normal cross-sectional area</th>
<th>Main power supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>5K-13K</td>
<td>H05VV-F</td>
<td>0.75~1.5mm² X3</td>
<td>H07RN-F</td>
<td>1.5mm² X3</td>
<td>H05RN-F</td>
<td>0.75mm² X2 (Heat-pump)</td>
<td>To indoor</td>
</tr>
<tr>
<td>14K-24K</td>
<td>H05VV-F</td>
<td>1.5~2.5mm² X3</td>
<td>H07RN-F</td>
<td>1.5~2.5mm² X3</td>
<td>H05RN-F</td>
<td>0.75mm² X2 (Heat-pump)</td>
<td>To indoor</td>
</tr>
<tr>
<td>18K-30K</td>
<td>H05VV-F</td>
<td>1.5~2.5mm² X3</td>
<td>H07RN-F</td>
<td>1.5~2.5mm² X4</td>
<td>H05RN-F</td>
<td>0.75mm² X2 (Heat-pump&amp;Optional)</td>
<td>To indoor</td>
</tr>
<tr>
<td>18K-30K</td>
<td>H07RN-F</td>
<td>2.5mm² X3</td>
<td>H05RN-F</td>
<td>1.0mm² X4 Cooling only</td>
<td>H05RN-F</td>
<td>0.75mm² X3 (Heat-pump)</td>
<td>To outdoor</td>
</tr>
<tr>
<td>24K-36K</td>
<td>H07RN-F</td>
<td>2.5~4.0mm² X3</td>
<td>H05RN-F</td>
<td>0.75mm² X4</td>
<td>H05RN-F</td>
<td>0.75mm² X2 (Heat-pump&amp;Optional)</td>
<td>To outdoor</td>
</tr>
<tr>
<td>24K-36K</td>
<td>H07RN-F</td>
<td>1.5mm² X5</td>
<td>H05RN-F</td>
<td>0.75mm² X4</td>
<td>H05RN-F</td>
<td>0.75mm² X2 (Heat-pump)</td>
<td>To outdoor</td>
</tr>
</tbody>
</table>

The cord may be different from the list above. It may be used as the next list. And it can be larger. 0-6A, use 0.75mm² or 18AWG. 0-10A, use 1mm² or 16AWG. 0-16A, use 1.5mm² or 14AWG. 0-20A, use 2.5mm² or 14AWG. 0-25A, use 2.5mm² or 12AWG. 0-32A, use 4mm².
Installation instructions

Wiring Diagram

Warning: Before obtaining access to terminals, all supply circuits must be disconnected.

Note: All the wires may be different colors. The indicators ‘1L 2L 3L’ may be ‘4 5 6’ or others.
And the terminal may be different from the material object.

• 5K~24K Model

Indoor unit

Outdoor unit

Terminal

3L

2L

1L

N

Power connecting cord

Power connecting cord

Blue

Brown

For above models, the power supply are connected from indoor unit.
For these models, the ground wire may be connected to the electric box directly.

• 18K~30K Model

Indoor unit

Outdoor unit

Terminal

3L

2L

1(L)

L

N

Power connecting cord

Power connecting cord

Blue

Black

Brown

For above models, the power supply are connected from indoor unit.
For these models, the ground wire may be connected to the electric box directly.

• 18K~30K Model

Indoor unit

Outdoor unit

Terminal

3L

2L

1L

N

Power connecting cord

Power connecting cord

Brown

Gray

Blue

For these models, the power supply are connected from outdoor unit, with a circuit breaker.

—10—
Warning: Before obtaining access to terminals, all supply circuits must be disconnected.
Note: All the wires may be different colors. The indicators ‘1L 2L 3L’ may be ‘4 5 6’ or others. And the terminal may be different from the material object.

- **24K~36K Model**

  ![Diagram of indoor unit and outdoor unit terminals](image)

  For these models, the power supply are connected from outdoor unit, with a circuit breaker. All the wires may be different colors.

  - **Defrost cable (for heat-pump air conditioner only, and it’s an optional part)**

    ![Defrost cable diagram](image)

    After connection, the defrost wire should be well wrapped with a wrapping tape and the connector should be put inside the unit.

  - **Overheat protection or high pressure protection cable (it’s an optional part)**

    ![Overheat protection cable diagram](image)

    After connection, the wire should be well wrapped with a wrapping tape and the connector should be put inside the unit.

  - **Ionizer (The ionizer is an optional part)**

    ![Ionizer diagram](image)

    After connection, the ionizer will work automatically.
Installation instructions

Outdoor unit installation

1. Install Drain Port and Drain Hose (for heat-pump model only)
   The condensate drains from the outdoor unit when the unit operates in heating mode. In order not to disturb your neighbor and protect the environment, install a drain port and a drain hose to direct the condensate water. Just install the drain port and rubber washer to the chassis of the outdoor unit, then connect a drain hose to the port as the right figure shown.

2. Install and Fix Outdoor Unit
   Fix with bolts and nuts tightly on a flat and strong floor.
   If installed on the wall or roof, make sure to fix the supporter well to prevent it from shaking due to serious vibration or strong wind.

3. Outdoor Unit Piping Connection
   • Remove the valve caps from the 2-way and 3-way valve.
   • Connect the pipes to the 2-way and 3-way valves separately according to the required torque.

4. Outdoor Unit Cable Connection (see previous page)

Air purging

The air which contains moisture remaining in the refrigeration cycle may cause a malfunction on the compressor. After connecting the indoor and outdoor units, release air and moisture from the refrigerant cycle using a vacuum pump, as shown below.

Note: To protect the environment, be sure not to discharge the refrigerant to the air directly.
Installation instructions

How to Purge Air Tubes:

(1). Unscrew and remove caps from 2 and 3-way valves.
(2). Unscrew and remove cap from service valve.
(3). Connect vacuum pump flexible hose to the service valve.
(4). Start vacuum pump for 10-15 minutes until reaching a vacuum of 10 mm Hg absolutes.
(5). With vacuum pump still running close the low pressure knob on vacuum pump manifold. Then stop vacuum pump.
(6). Open 2-way valve 1/4 turn then close it after 10 seconds. Check tightness of all joints using liquid soap or an electronic leak detector.
(7). Turn 2 and 3-way valves stem to fully the valves. Disconnect vacuum pump flexible hose.
(8). Replace and tighten all valve caps.
# Maintenance

## Front panel maintenance

1. **Cut off the power supply**
   - Turn off the appliance first before disconnecting from power supply.

2. **Grasp position “a” and pull outward to remove the front panel.**

3. **Wipe with a soft and dry cloth.**
   - Use soft moisture cloth to clean if the front panel is very dirty;

4. **Never use volatile substance such as gasoline or polishing powder to clean the appliance.**

5. **Never sprinkle water onto the indoor unit**

6. **Reinstall and shut the front panel.**
   - Reinstall and shut the front panel by pressing position “b” downward.

## Air filter maintenance

1. **Stop the appliance, cut off the power supply and remove the air filter.**

   1. Open the front panel.
   2. Press the handle of the filter gently from the front.
   3. Grasp the handle and slide out the filter.

2. **Clean and reinstall the air filter.**
   - If the dirt is conspicuous, wash it with a solution of detergent in lukewarm water. After cleaning, dry well in shade.

3. **Close the front panel again.**
   - It is necessary to clean the air filter after using it for about 100 hours.
Protection

Operating condition

The protective device may trip and stop the appliance in the cases listed below.

<table>
<thead>
<tr>
<th>HEATING</th>
<th>COOLING</th>
<th>DRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor air temperature is over 24°C</td>
<td>Outdoor air temperature is over *43°C</td>
<td>Room temperature is below 21°C</td>
</tr>
<tr>
<td>Outdoor air temperature is below -7°C</td>
<td>Room temperature is below 21°C</td>
<td>Room temperature is below 18°C</td>
</tr>
<tr>
<td>Room temperature is over 27°C</td>
<td>Room temperature is below 21°C</td>
<td>Room temperature is below 18°C</td>
</tr>
</tbody>
</table>

*For Tropical (T3) Climate condition models, the temperature point is 55°C instead of 43°C.
The temperature of some products is allowed beyond the range. In specific situations, please consult the merchant.
If the air conditioner runs in COOLING or DRY mode with door or window opened for a long time when relative humidity is above 80%, dew may drip down from the outlet.

Noise pollution

* Install the air conditioner at a place that can bear its weight in order to operate more quietly.
* Install the outdoor unit at a place where the air discharged and the operation noise would not annoy your neighbors.
* Do not place any obstacles in front of the air outlet of the outdoor unit lest it increases the noise level.

Features of protector

1. The protective device will work at following cases.
   * Restarting the unit at once after operation stops or changing mode during operation, you need to wait for 3 minutes.
   * Connect to power supply and turn on the unit at once, it may start 20 seconds later.

2. If all operation has stopped, press ON/OFF button again to restart, Timer should be set again if it has been canceled.

Features of HEATING mode

Preheat
At the beginning of the HEATING operation, the airflow from the indoor unit is discharged 2-5 minutes later.

Defrost
In HEATING operation the appliance will defrost (de-ice) automatically to raise efficiency. This procedure usually lasts 2-10 minutes. During defrosting, fans stop operation. After defrosting completes, it returns to HEATING mode automatically.

Note: Heating is NOT available for cooling only air conditioner models.
# Troubleshooting

The following cases may not always be a malfunction, please check it before asking for service.

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Analysis</th>
</tr>
</thead>
</table>
| Does not run                                 | • If the protector trip or fuse is blown.  
• Please wait for 3 minutes and start again, protector device may be preventing unit to work.  
• If batteries in the remote controller exhausted.  
• If the plug is not properly plugged.          |
| No cooling or heating air                    | • Is the air filter dirty?  
• Are the intakes and outlets of the air conditioner blocked?  
• Is the temperature set properly?              |
| Ineffective control                          | • If strong interference(from excessive static electricity discharge, power supply voltage abnormality) presents, operation will be abnormal. At this time, disconnect from the power supply and connect back 2-3 seconds later. |
| Does not operate immediately                 | • Changing mode during operation, 3 minutes will delay.                                                                                                                                             |
| Peculiar odor                                | • This odor may come from another source such as furniture, cigarette etc, which is sucked in the unit and blows out with the air.                                                                    |
| A sound of flowing water                     | • Caused by the flow of refrigerant in the air conditioner, not a trouble.  
• Defrosting sound in heating mode.              |
| Cracking sound is heard                      | • The sound may be generated by the expansion or contraction of the front panel due to change of temperature.                                                                                       |
| Spray mist from the outlet                   | • Mist appears when the room air becomes very cold because of cool air discharged from indoor unit during COOLING or DRY operation mode.                                                       |
| The compressor indicator(red) lights on constantly, and indoor fan stops. | • The unit is shifting from heating mode to defrost. The indicator will light off within ten minutes and returns to heating mode.                                                              |
Identification of parts

Indoor unit

- Front Panel
- Air Intake
- Display Panel
- Emergency Panel
- Air Outlet
- Vertical Adjustment Louver
- Horizontal Adjustment Louver
- Air Filter
- Remote Controller

Outdoor unit

- Pipes and Power Connection Cord
- Drain Hose
- Air Outlet

Note: Condensate water drains at COOLING or DRY operation.

The figures in this manual are based on the external view of a standard model. Consequently, the shape may differ from that of the air conditioner you have selected.
Display introduction

Temperature indicator
Display set temperature.
It shows FC after 200 hours of usage as reminder to clean the filter.
After filter cleaning press the filter reset button located on the indoor unit behind the front panel in order to reset the display.(optional)

Running indicator
It lights up when the AC is running.
It flashes during defrosting.

Timer indicator
It lights up during set time.

Sleep indicator
It lights up in sleep mode.

Compressor indicator
It lights up when the compressor is on.

Super indicator
It lights up in super mode.

Mode indicator
Heating displays orange, others display white

Fan speed indicator

Signal Receptor

Smart WIFI indicator
It lights up during WIFI is on.

VG/VL series

The symbols may be different from these models, but the functions are similar.
Display introduction

VT series

SF/DG(Right side) series

SE series

The symbols may be different from these models, but the functions are similar.
Display introduction

NS/DE series

NT series

VQ/TE/TF/DA/DG(Middle)/DH/DL(Right side) series

The symbols may be different from these models, but the functions are similar.
Display introduction

VM series

NM/DF series

NK series

TA/TC series

TQ/TR series

The symbols may be different from these models, but the functions are similar.
Display introduction

VC series

SA/TD/TG/TS/DB/DC/DJ/DK/DL(Middle) series

SC series

Emergency button

ON/OFF  To let the AC run or stop by pressing the button.

The symbols may be different from these models, but the functions are similar.
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