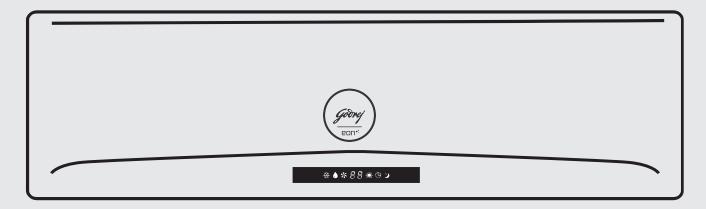
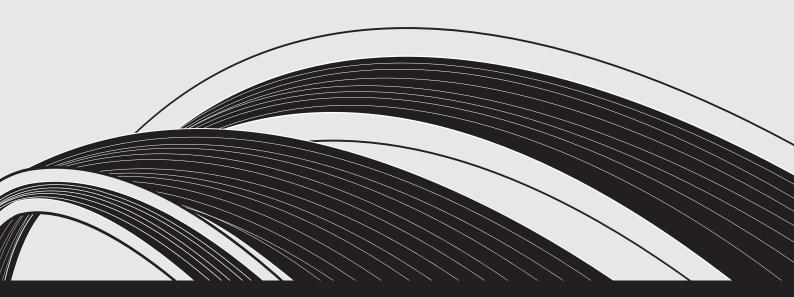
Goby eon:



# **Split** Air Conditioner Wall - mounted



**OWNER'S MANUAL** 

Dear Customer,

On behalf of Godrej Appliances, we welcome you to the Godrej family, and thank you for giving us an opportunity to serve you.

Godrej Appliances is a leading brand not just in technology and performance but also for its excellent customer service, we have more than 550 service centers across India, so that we can be close to our customers and serve them better.

In order to get the maximum out of your superior Air Conditioner, we urge you to go through this detailed user manual, if you need any assistance at any time, do not hesitate to call us on 1800 209 5511 or write to us at smartcare@godrej.com

We again thank you for giving us the privilege to serve you, and look forward to a long and delightful association.

Warm Regards, Team Godrej

PERFORMANCE PARAMETERS			
MODEL NAME		GIC 18 DINV 5 RWQH	GIC 18 TINV 5 RWQH
OPERATING N	AODE	Cooling	Cooling
RATED VOLT.	AGE	230 V	230 V
RATED FREQUENCY/PHASE		50 Hz/1Ø	50 Hz/1Ø
COOLING CAPACITY (W)		5200 W	5200 W
RATED POWER INPUT (W)		1450 W	1450 W
AIR FLOW VOLUME		950 CMH	950 CMH
RATED INPUT CURRENT		6.65 A	6.65 A
REFRIGERANT		R410a	R410a
REFRIGERANT CHARGE		1.60 kg	1.60 kg
COMP LRA		25.0 A	25.0 A
WEIGHT	IDU	13.5 kg	13.5 kg
	ODU	45.0 kg	45.0 kg

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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.

If it needs to install, move or maintain the air conditioner, please contact dealer or local service center to conduct it at first. Air conditioner must be installed, moved or maintained by appointed unit. Otherwise, it may cause serious damage or personal injury or death.

## 

### **Operation and Maintenance**

- •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.
- •Do not connect air conditioner to multi-purpose socket. Otherwise, it may cause fire hazard.
- •Do disconnect power supply when cleaning air conditioner. Otherwise, it may cause electric shock.
- •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.
- •Do not wash the air conditioner with water to avoid electric shock.
- •Do not spray water on indoor unit. It may cause electric shock or malfunction.
- •After removing the filter, do not touch fins to avoid injury.
- •Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.



## WARNING

- Maintenance must be performed by qualified professionals. Otherwise, it may cause personal injury or damage.
- Do not repair air conditioner by yourself. It may cause electric shock or damage. Please contact dealer when you need to repair air conditioner.
- Do not extend fingers or objects into air inlet or air outlet. It may cause personal injury or damage.
- Do not block air outlet or air inlet. It may cause malfunction.
- Do not spill water on the remote controller, otherwise the remote controller may be broken.
- When below phenomenon occurs, please turn off air conditioner and disconnect power immediately, and then contact the dealer or qualified professionals for service.
  - Power cord is overheating or damaged.
  - There's abnormal sound during operation.
  - Circuit break trips off frequently.
  - Air conditioner gives off burning smell.
  - Indoor unit is leaking.
- If the air conditioner operates under abnormal conditions, it may cause malfunction, electric shock or fire hazard.
- When turning on or turning off the unit by emergency operation switch, please press this switch with an insulating object other than metal.
- Do not step on top panel of outdoor unit, or put heavy objects. It may cause damage or personal injury.

## 

## Attachment

- Installation must be performed by qualified professionals. Otherwise, it may cause personal injury or damage.
- Must follow the electric safety regulations when installing the unit.
- According to the local safety regulations, use qualified power supply circuit and circuit break.
- Do install the circuit break. If not, it may cause malfunction.
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- Including an circuit break with suitable capacity, please note the following table. Air switch should be included magnet buckle and heating buckle function, it can protect the circuit-short and overload.
- Air Conditioner should be properly grounded. Incorrect grounding may cause electric shock.
- Don't use unqualified power cord.
- Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring or malfunction. Please install proper power supply cables before using the air conditioner.
- Properly connect the live wire, neutral wire and grounding wire of power socket.
- Be sure to cut off the power supply before proceeding any work related to electricity and safety.

## 

- Do not put through the power before finishing installation.
- 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 temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- The appliance shall be installed in accordance with national wiring regulations.
- Installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.
- The air conditioner is the first class electric appliance. It must be properly grounding with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
- The yellow-green wire in air conditioner is grounding wire, which can't be used for other purposes.
- The grounding resistance should comply with national electric safety regulations.
- The appliance must be positioned so that the plug is accessible.
- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.

## WARNING

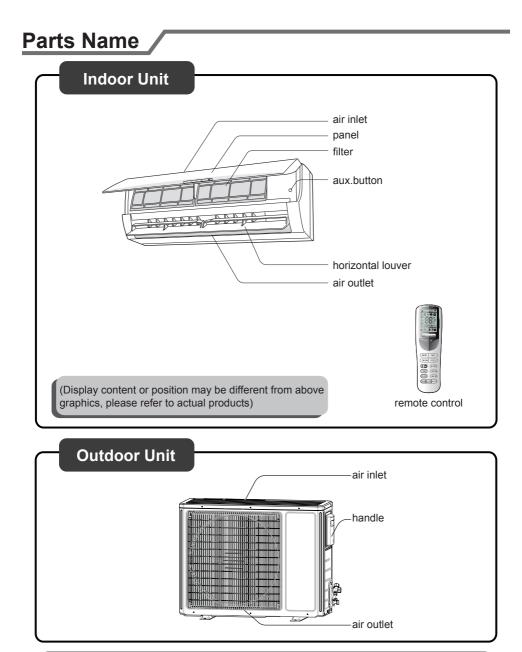
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an circuit break must be installed in the line.
- If you need to relocate the air conditioner to another place, only the qualified person can perform the work. Otherwise, it may cause personal injury or damage.
- Select a location which is out of reach for children and far away from animals or plants. If it is unavoidable, please add the fence for safety purpose.
- The indoor unit should be installed close to the wall.

### Working temperature range

	Indoor side DB/WB(℃)	Outdoor side DB/WB(℃)
Maximum cooling	35/24	48/30
Maximum heating	27/-	24/18

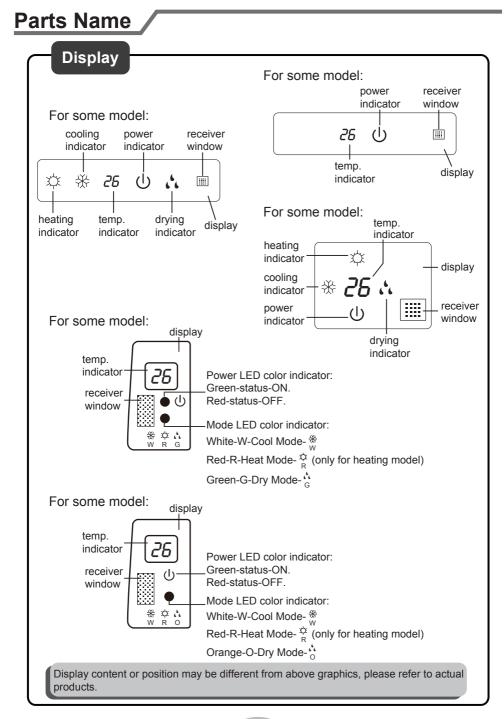
### NOTICE:

• The operating temperature range (outdoor temperature) for cooling only unit is  $18^{\circ}$ C ~48°C; for heat pump unit is -7°C ~ 48°C.

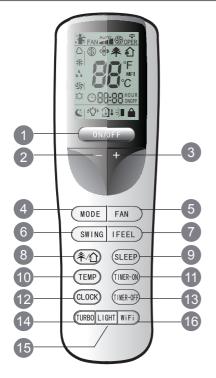


### NOTICE:

Actual product may be different from above graphics, please refer to actual products.

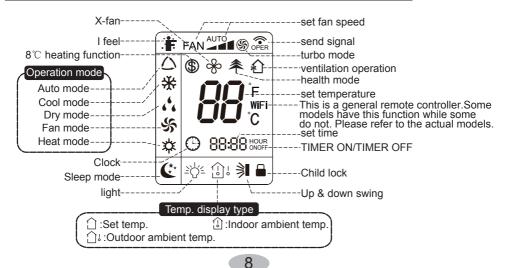


## Buttons on remote controller



- 1 ON/OFF button
- 2 button
- 3 + button
- 4 MODE button
- 5 FAN button
- 6 SWING button
- 7 I FEEL button
- 8) 추/ 倉 button
- 9 SLEEP button
- 10 TEMP button
- 11 TIMER-ON button
- 12 CLOCK button
- 13 TIMER-OFF button
- 14 TURBO button
- 15 LIGHT button
- 16 WiFi button

## Introduction for icons on display screen



### Note:

- This is a general use remote controller, it could be used for the air conditioners with multifunction; For some function, which the model doesn't have, if press the corresponding button on the remote controller that the unit will keep the original running status.
- After putting through power, air conditioner will give out a sound and operation indicator "()" is ON (red indicator, the colour is different for different models). You can operate the air conditioner through the remote controller.

#### ON/OFF button

Press this button to turn on the unit. Press this button again to turn off the unit.

### 2 - button

Press this button to decrease set temperature. Holding it down above 2 seconds rapidly decreases set temperature. In AUTO mode, set temperature is not adjustable.

### 3 + button

Press this button to increase set temperature. Holding it down above 2 seconds rapidly increases set temperature. In AUTO mode, set temperature is not adjustable.

### 4 MODE button

Each time you press this button, a mode is selected in a sequence that goes from AUTO, COOL, DRY, FAN, and HEAT\*, as the following:



<sup>\*</sup>Note: Only for models with heating function.

After energization, AUTO mode is defaulted. In AUTO mode, the set temperature will not be displayed on the LCD, and the unit will automatically select the suitable operation mode in accordance with the room temperature to make indoor room comfortable. (As for cooling only unit, it won't have any action when it receives the signal of heating operation.)

### 5 FAN button

This button is used for setting Fan Speed in the sequence that goes from AUTO,  $\neg$ ,  $\neg$ , to  $\neg$ , then back to Auto.

✓ Low speed ▲▲ Medium speed ▲▲▲ High speed

►Auto-

• X-FAN function: Hold fan speed button for 2s in COOL or DRY mode, the icon " is displayed and the indoor fan will continue operation for a few minutes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in AUTO, FAN or HEAT mode.

This function indicates that moisture on evaporator of indoor unit will be blowed after the unit is stopped to avoid mould.

- Having set X-FAN function on: After turning off the unit by pressing ON/OFF button indoor fan will continue running for a few minutes. at low speed. In this period, Hold fan speed button for 2s to stop indoor fan directly.
- Having set X-FAN function off: After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

#### 6 SWING button

Press this button to set up &down swing angle, which circularly changes as below:

This remote controller is universal. If any command  $\ge$ ,  $\ge$  or > is sent out, the unit will carry out the command as >

indicates the guide louver swings as: `↓ ↓ ↓ ↓

#### 7 I FEEL button

Press this button to turn on I FEEL function. The unit automatically adjust temperature according to the sensed temperature. Press this button again to cancel I FEEL function. When I FEEL function is turned on, the remote controller should be put within the area where indoor unit can receive the signal sent by the remote controller.

### 8 추/紀 button

Press this button to achieve the on and off of healthy and scavenging functions in operation status. Press this button for the first time to start scavenging function; LCD displays " ① ". Press the button for the second time to start healthy and scavenging functions simultaneously; LCD displays " ② " and " 추 ". Press this button for the third time to quit healthy and scavenging functions simultaneously. Press the button for the fourth time to start healthy function; LCD display " 추 ". Press this button again to repeat the operation above. (This function is applicable to partial of models)

### 9 SLEEP button

Press this button to go into the SLEEP operation mode. Press it again to cancel this function. This function is available in COOL, HEAT (Only for models with heating function) mode to maintain the most comfortable temperature for you.

### **10** TEMP button

Press this button can see indoor set temperature, indoor ambient temperature or outdoor ambient temperature on indoor unit's display. Temperature is set circularly by remote controller as below:



- When selecting "<sup>()</sup> by remote controller or no display, temperature indicator on indoor unit displays set temperature.
- When selecting "(a)" by remote controller, temperature indicator on indoor unit displays indoor ambient temperature.
- When selecting " : by remote controller, temperature indicator on indoor unit displays outdoor ambient temperature.

#### Note:

- Outdoor ambient temperature display may can't be selected for some models. When indoor unit receives " : signal, it displays indoor set temperature.
- Only for the model whose indoor unit has dual-8 display.

### 11 TIMER-ON button

Press this button to initiate the auto-ON timer. To cancel the auto-timer program, simply press this button again.

After press of this button, () disappears and "ON" blinks. 00:00 is displayed for ON time setting. Within 5 seconds, press + or - button to adjust the time value. Every press of either button changes the time setting by 1 minute. Holding down either button rapidly changes the time setting by 1 minute and then 10 minutes. Within 5 Seconds after setting, press TIMER ON button to confirm.

### 12 CLOCK button

Press CLOCK button, 🕒 blinking. Within 5 seconds, pressing + or - button adjusts the present time. Holding down either button above 2 seconds increases or decreases the time by 1 minute every 0.5 second and then by 10 minutes every 0.5 second. During blinking after setting, press CLOCK button again to confirm the setting, and then 🕒 will be constantly displayed.

### **13** TIMER-OFF button

Press this button to initiate the auto-off timer. To cancel the auto-timer program, simply press the button again. TIMER OFF setting is the same as TIMER ON.

### **14** TURBO button

Press this button to activate / deactivate the Turbo function which enables the unitto reach the preset temperature in the shortest time. In COOL mode, the unit will blow strong cooling air at super high fan speed. In HEAT mode, the unit will blow strong heating air at super high fan speed.

### 15 LIGHT button

Press LIGHT button to turn on the display's light and press this button again to turn off the display's light. If the light is turned on,  $\frac{1}{2} = \frac{1}{2}$  is displayed. If the light is turned off,  $\frac{1}{2} = \frac{1}{2}$  disppears.

### 16 WiFi button

Press " **WiFi** " button to turn on or turn off WiFi function. When WiFi function is turned on, the " **WiFi** " icon will be displayed on remote controller; Under status of unit off, press "MODE" and " **WiFi** " buttons simultaneously for 1s, WiFi module will restore to factory default setting.

• This function is only available for some models.

## Function introduction for combination buttons

### Combination of "+" and "-" buttons: About lock

Press "+" and "-" buttons simultaneously to lock or unlock the keypad. If the remote controller is locked,  $\widehat{}$  is displayed. In this case, pressing any button,  $\widehat{}$  blinks three times.

### Combination of "MODE" and "-" buttons: About switch between Fahrenheit and centigrade

At unit OFF, press "MODE" and "-" buttons simultaneously to switch between  $^\circ\text{C}$  and  $^\circ\text{F}.$ 

## Function introduction for combination buttons

### Combination of "TEMP" and "CLOCK" buttons: About Energy-saving Function

Press "TEMP" and "CLOCK" simultaneously in COOL mode to start energy-saving function. Nixie tube on the remote controller displays "SE". Repeat the operation to quit the function.

### Combination of "TEMP" and "CLOCK" buttons: About 8°C Heating Function

Press "TEMP" and "CLOCK" simultaneously in HEAT mode to start 8°C Heating Function Nixie tube on the remote controller displays "()" and a selected temperature of "8°C" (46°F if Fahrenheit is adopted). Repeat the operation to quit the function.

### About Back-lighting Function

The unit lights for 4s when energizing for the first time, and 3s for later press.

### About HEALTH function (COLD PLASMA)

Turn on the unit, start up the fan (Breezing and X-FAN are excluded) and press HEATLTH button on remote controller to start health function (If there is not HEALTH button on remote controller, the unit defaults health function ON.)

#### A) Remote switch °F & °C:

- 1. Set remote powered off.
- 2. Press "Mode" and "-" at the same time. Remote will switch °F & °C.

#### B) 100% Cooling capacity testing:

- 1. Set upper guide louver at the Third position. Press "TURBO" button, make sure the "TURBO" is on for all testing mode.
- 2. Settemperature to  $18^{\circ}$ C by "+" or "-" button on remote.
- 3. Press "LIGHT" button 5 times within 5s, display of indoor unit will indicate "P1" flickeringly. P1 (72HZ)
- 4. If the display doesn't show the number, please reset again.

#### C) 50% Cooling capacity testing:

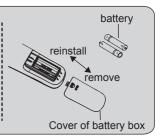
- 1. Set upper guide louver at the Third position. Press "TURBO" button, make sure the "TURBO" is on for all testing mode.
- 2. Settemperature to  $17^{\circ}$ C by "+" or "-" button on remote.
- 3. Press "LIGHT" button 5 times within 5s, display of indoor unit will indicate "P3" flickeringly.P3(28HZ)
- 4. If the display doesn't show the number, please reset again.

## Operation guide

- **1.** After putting through the power, press "ON/OFF" button on remote controller to turn on the air conditioner.
- **2.** Press "MODE" button to select your required mode: AUTO, COOL, DRY, FAN, HEAT.
- **3.** Press "+" or "-" button to set your required temperature. (Temperature can't be adjusted under auto mode).
- **4.** Press "FAN" button to set your required fan speed: auto, low, medium and high speed.
- 5. Press "SWING" button to select fan blowing angle.

## Replacement of batteries in remote controller

- 1. Press the back side of remote controller marked with ". as shown in the fig, and then push out the cover of battery box along the arrow direction.
- Replace two 7# (AAA 1.5V) dry batteries, and make sure the position of "+" polar and "-" polar are correct.



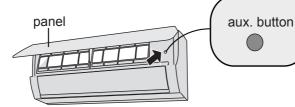
3. Reinstall the cover of battery box.

## NOTICE

- During operation, point the remote control signal sender at the receiving window on indoor unit.
- The distance between signal sender and receiving window should be no more than 8m, and there should be no obstacles between them.
- Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone; remote controller should be close to indoor unit during operation.
- Replace new batteries of the same model when replacement is required.
- When you don't use remote controller for a long time, please take out the batteries.
- If the display on remote controller is fuzzy or there's no display, please replace batteries.

## Emergency operation

If remote controller is lost or damaged, please use auxiliary button to turn on or turn off the air conditioner. The operation in details are as below: As shown in the fig. Open panel, press aux. button to turn on or turn off the air conditioner. When the air conditioner is turned on, it will operate under auto mode.



### \land WARNING:

Use insulated object to press the auto button

## **Clean and Maintenance**

## 

- Turn off the air conditioner and disconnect the power before cleaning the air conditioner to avoid electric shock.
- Do not wash the air conditioner with water to avoid electric shock.
- Do not use volatile liquid to clean the air conditioner.

### Clean surface of indoor unit

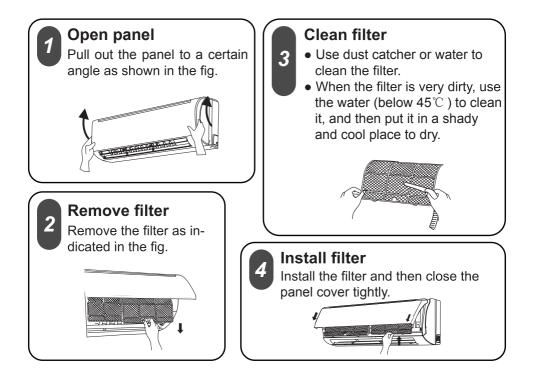
When the surface of indoor unit is dirty, it is recommended to use a soft dry cloth or wet cloth to wipe it.

### NOTICE:

• Do not remove the panel when cleaning it.

## **Clean and Maintenance**

### **Clean filter**



## 

- The filter should be cleaned every three months. If there is much dust in the operation environment, clean frequency can be increased.
- After removing the filter, do not touch fins to avoid injury.
- Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.

## Clean and Maintenance

#### NOTICE: Checking before use-season

- 1. Check whether air inlets and air outlets are blocked.
- 2. Check whether air switch, plug and socket are in good condition.
- 3. Check whether filter is clean.
- 4. Check whether mounting bracket for outdoor unit is damaged or corroded. If yes, please contact dealer.
- 5. Check whether drainage pipe is damaged.

### NOTICE: Checking after use-season

- 1. Disconnect power supply.
- 2. Clean filter and indoor unit's panel.
- 3. Check whether mounting bracket for outdoor unit is damaged or corroded. If yes, please contact dealer.

#### Notice for recovery

- 1. Many packing materials are recyclable materials. Please dispose them in appropriate recycling unit.
- 2. If you want to dispose the air conditioner, please contact local dealer or consultant service center for the correct disposal method.

### General phenomenon analysis

Please check below items before asking for maintenance. If the malfunction still can't be eliminated, please contact local dealer or qualified professionals.

Phenomenon	Check items	Solution
	<ul> <li>Whether it's interfered severely (such as static electricity, stable voltage)?</li> </ul>	
	<ul> <li>Whether remote controller is within the signal receiving range?</li> </ul>	<ul> <li>Signal receiving range is 8m.</li> </ul>
Indoor unit	Whether there are obstacles?	<ul> <li>Remove obstacles.</li> </ul>
can't receive remote controller's signal or remote controller has no action.	<ul> <li>Whether remote controller is pointing at the receiving window?</li> </ul>	<ul> <li>Select proper angle and point the remote controller at the re- ceiving window on indoor unit.</li> </ul>
	<ul> <li>Is sensitivity of remote contro- ller low; fuzzy display and no display?</li> </ul>	• Check the batteries. If the power of batteries is too low, please replace them.
	<ul> <li>No display when operating remote controller?</li> </ul>	<ul> <li>Check whether remote cont- roller appears to be damaged. If yes, replace it.</li> </ul>
	<ul> <li>Fluorescent lamp in room?</li> </ul>	<ul> <li>Take the remote controller close to indoor unit.</li> </ul>
		• Turn off the fluoresent lamp and then try it again.
No air emitted from indoor unit	<ul> <li>Air inlet or air outlet of indoor unit is blocked?</li> </ul>	Eliminate obstacles.
	<ul> <li>Under heating mode, indoor temperature is reached to set temperature?</li> </ul>	<ul> <li>After reaching to set temper- ature, indoor unit will stop bl- owing out air.</li> </ul>
	<ul> <li>Heating mode is turned on just now?</li> </ul>	<ul> <li>In order to prevent blowing out cold air, indoor unit will be started after delaying for sev- eral minutes, which is a nor- mal phenomenon.</li> </ul>

## Malfunction analysis

Phenomenon	Check items	Solution
	Power failure?	Wait until power recovery.
	Is plug loose?	Reinsert the plug.
	• Air switch trips off or fuse is burnt out?	• Ask professional to replace air switch or fuse.
Air condit- ioner can't	<ul> <li>Wiring has malfunction?</li> </ul>	• Ask professional to replace it.
operate	<ul> <li>Unit has restarted immediately after stopping operation?</li> </ul>	<ul> <li>Wait for 3min, and then turn on the unit again.</li> </ul>
	• Whether the function setting for remote controller is correct?	Reset the function.
Mist is em- itted from indoor unit's air outlet	<ul> <li>Indoor temperature and hum- idity is high?</li> </ul>	• Because indoor air is cooled rapidly. After a while, indoor temperature and humidity will be decrease and mist will disappear.
Set temper- ature can't be adjusted	• Unit is operating under auto mode?	• Temperature can't be adju- sted under auto mode. Please switch the operation mode if you need to adjust temperature.
	• Your required temperature exceeds the set temperature range?	<ul> <li>Set temperature range: 16℃ ~30℃.</li> </ul>
Cooling (heating) effect is not good.	Voltage is too low?	Wait until the voltage resumes normal.
	• Filter is dirty?	Clean the filter.
	• Set temperature is in proper range?	• Adjust temperature to proper range.
	• Door and window are open?	Close door and window.

## Malfunction analysis

Phenomenon	Check items	Solution
Odours are emitted	• Whether there's odour source, such as furniture and cigarette, etc.	<ul><li>Eliminate the odour source.</li><li>Clean the filter.</li></ul>
Air conditio- ner operates abnormally	• Whether there's interference, such as thunder, wireless devices, etc.	• Disconnect power, put back power, and then turn on the unit again.
Outdoor unit has vapor	• Heating mode is turned on?	• During defrosting under he- ating mode, it may generate vapor, which is a normal phenomenon.
"Water flowing" noise	• Air conditioner is turned on or turned off just now?	• The noise is the sound of refrigerant flowing inside the unit, which is a normal phenomenon.
Cracking noise	• Air conditioner is turned on or turned off just now?	• This is the sound of friction caused by expansion and/or contraction of panel or other parts due to the change of temperature.

## Malfunction analysis

#### **Error Code**

• When air conditioner status is abnormal, temperature indicator on indoor unit will blink to display corresponding error code. Please refer to below list for identification of error code.

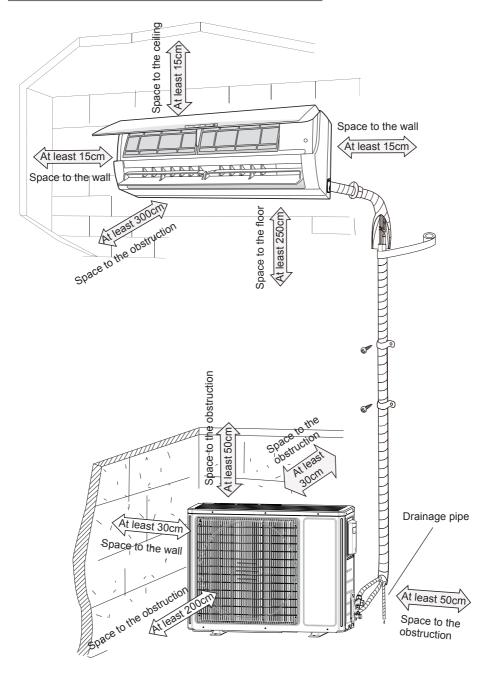
Error code	Troubleshooting
E5	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
E6	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
E8	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
H6	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
C5	Please contact qualified professionals for service.
F0	Please contact qualified professionals for service.
F1	Please contact qualified professionals for service.
F2	Please contact qualified professionals for service.

Note: If there're other error codes, please contact qualified professionals for service.

### WARNING

- When below phenomenon occurs, please turn off air conditioner and disconnect power immediately, and then contact the dealer or qualified professionals for service.
  - Power cord is overheating or damaged.
  - There's abnormal sound during operation.
  - Air switch trips off frequently.
  - Air conditioner gives off burning smell.
  - Indoor unit is leaking.
- Do not repair or refit the air conditioner by yourself.
- If the air conditioner operates under abnormal conditions, it may cause malfunction, electric shock or fire hazard.

## Installation dimension diagram



#### To ensure safety, please be mindful of the following precautions.

## **M** Warning

- When installing or relocating the unit, be sure to keep the refrigerant circuit free from air or substances other than the specified refrigerant. Any presence of air or other foreign substance in the refrigerant circuit will cause system pressure rise or compressor rupture, resulting in injury.
- When installing or moving this unit, do not charge the refrigerant which is not comply with that on the nameplate or unqualified refrigerant. Otherwise, it may cause abnormal operation, wrong action, mechanical malfunction or even series safety accident.
- When refrigerant needs to be recovered during relocating or repairing the unit, be sure that the unit is running in cooling mode. Then, fully close the valve at high pressure side (liquid valve). About 30-40 seconds later, fully close the valve at low pressure side (gas valve), immediately stop the unit and disconnect power. Please note that the time for refrigerant recovery should not exceed 1 minute.

If refrigerant recovery takes too much time, air may be sucked in and cause pressure rise or compressor rupture, resulting in injury.

- During refrigerant recovery, make sure that liquid valve and gas valve are fully closed and power is disconnected before detaching the connection pipe. If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.
- When installing the unit, make sure that connection pipe is securely connected before the compressor starts running.

If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.

• Prohibit installing the unit at the place where there may be leaked corrosive gas or flammable gas.

If there leaked gas around the unit, it may cause explosion and other accidents.

• Do not use extension cords for electrical connections. If the electric wire is not long enough, please contact a local service center authorized and ask for a proper electric wire.

Poor connections may lead to electric shock or fire.

• Use the specified types of wires for electrical connections between the indoor and outdoor units. Firmly clamp the wires so that their terminals receive no external stresses.

Electric wires with insufficient capacity, wrong wire connections and insecure wire terminals may cause electric shock or fire.

## Tools for installation

Note:

1 Level meter	2 Screw d	river	3 Impact drill
4 Drill head	5 Pipe expander		6 Torque wrench
7 Open-end wrench	8 Pipe cutter		9 Leakage detector
10 Vacuum pump	11 Pressure meter		12 Universal meter
13 Inner hexagon spanner		14	Measuring tape

• Please contact the local agent for installation.

• Don't use unqualified power cord.

## Selection of installation location

#### Indoor unit Basic requirement 1. There should be no obstruction near air Installing the unit in the following plainlet and air outlet. ces maycause malfunction. If it is un-2. Select a location where the condensatavoidable, please consult the local ion water can be dispersed easily and dealer: won't affect other people. 1. The place with strong heat sources, 3. Select a location which is convenient to vapors, flammable or explosive gas, connect the outdoor unit and near the or volatile objects spread in the air. power socket. 2. The place with high-frequency 4. Select a location which is out of reach devices (such as welding machine, for children medical equipment). 5. The location should be able to withstand 3. The place near coast area. the weight of indoor unit and won't incr-4. The place with oil or fumes in the air. ease noise and vibration. 5. The place with sulfureted gas. 6. The appliance must be installed 2.5m 6. Other places with special circumsabove floor. 7. Don't install the indoor unit right above tances. the electric appliance. 7. The appliance shall not be install-8. Please try your best to keep way from ed in the laundry fluorescent lamp. Outdoor unit

- 1. Select a location where the noise and outflow air emitted by the outdoor unit will not affect neighborhood.
- 2. The location should be well ventilated and dry, in which the outdoor unit won't be exposed directly to sunlight or strong wind.
- 3. The location should be able to withstand the weight of outdoor unit.
- 4. Make sure that the installation follows the requirement of installation dimension diagram.
- 5. Select a location which is out of reach for children and far away from animals or plants. If it is unavoidable, please add the fence for safety purpose.

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## Requirements for electric connection

### Safety precaution

- 1. Must follow the electric safety regulations when installing the unit.
- 2. According to the local safety regulations, use qualified power supply circuit and air switch.
- 3. Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring or malfunction. Please install proper power supply cables before using the air conditioner.
- 4. Properly connect the live wire, neutral wire and grounding wire of power socket.
- 5. Be sure to cut off the power supply before proceeding any work related to electricity and safety. For models with a power plug, make sure the plug is within reach after installation.
- 6. Do not put through the power before finishing installation.
- 7. 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.
- 8. The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- 9. The appliance shall be installed in accordance with national wiring regulations.

### Grounding requirement

- 1. The air conditioner is the first class electric appliance. It must be properly grounding with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
- 2. The yellow-green wire in air conditioner is grounding wire, which can't be used for other purposes.
- 3. The grounding resistance should comply with national electric safety regulations.
- 4. The appliance must be positioned so that the plug is accessible.
- 5. An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- Including an air switch with suitable capacity, please note the following table. Air switch should be included magnet buckle and heating buckle function, it can protect the circuit-short and overload. (Caution: please do not use the fuse only for protect the circuit)

Air-conditioner	Air switch capacity
09K	10A
12K	13A
18K	16A
24K	25A

### Step one: choosing installation location

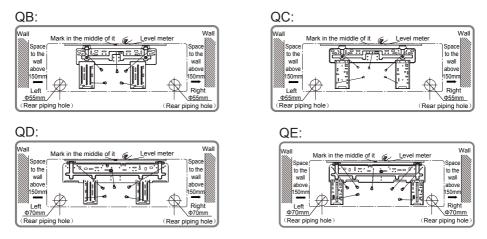
Recommend the installation location to the client and then confirm it with the client.

#### Step two: install wall-mounting frame

- 1. Hang the wall-mounting frame on the wall; adjust it in horizontal position with the level meter and then point out the screw fixing holes on the wall.
- 2. Drill the screw fixing holes on the wall with impact drill (the specification of drill head should be the same as the plastic expansion particle) and then fill the plastic expansion particles in the holes.
- 3. Fix the wall-mounting frame on the wall with tapping screws (ST4.2X25TA) and then check if the frame is firmly installed by pulling the frame. If the plastic expansion particle is loose, please drill another fixing hole nearby.

### Step three: open piping hole

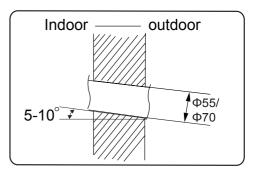
1. Choose the position of piping hole according to the direction of outlet pipe. The position of piping hole should be a little lower than the wall-mounted frame, shown as below.



2. Open a piping hole with the diameter of  $\Phi$ 55 or  $\Phi$ 70 on the selected outlet pipe position.In order to drain smoothly, slant the piping hole on the wall slightly downward to the outdoor side with the gradient of 5-10°.

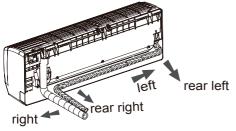
### Note:

- Pay attention to dust prevention and take relevant safety measures when opening the hole.
- The plastic expansion particles are not provided and should be bought locally.

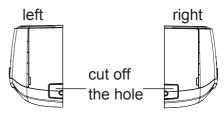


### Step four: outlet pipe

1. The pipe can be led out in the direction of right, rear right, left or rear left.

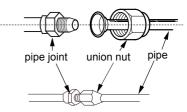


2. When select leading out the pipe from left or right, please cut off the corresponding hole on the bottom case.



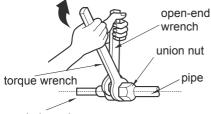
### Step five: connect the pipe of indoor unit

- 1. Aim the pipe joint at the corresponding bellmouth.
- 2. Pretightening the union nut with hand.



3. Adjust the torque force by referring to the following sheet. Place the open-end wrench on the pipe joint and place the torque wrench on the union nut. Tighten the union nut with torque wrench.

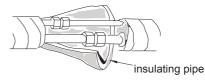
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Hex nut diameter	Tightening torque (N·m)
Φ6	15~20
Φ 9.52	30~40
Φ 12	45~55
Φ 16	60~65
Φ 19	70~75

indoor pipe

4. Wrap the indoor pipe and joint of connection pipe with insulating pipe, and then wrap it with tape.

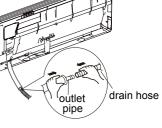


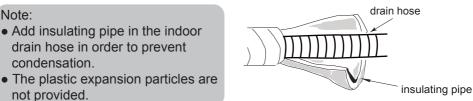
### Step six: install drain hose

1. Connect the drain hose to the outlet pipe of indoor unit.

tape

2. Bind the joint with tape.

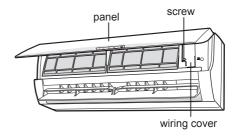




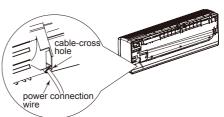
drain hose

#### Step seven: connect wire of indoor unit

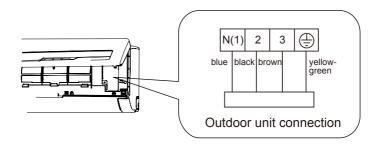
1. Open the panel, remove the screw on the wiring cover and then take down the cover.



2. Make the power connection wire go through the cable-cross hole at the back of indoor unit and then pull it out from the front side.



3. Remove the wire clip; connect the power connection wire to the wiring terminal according to the color; tighten the screw and then fix the power connection wire with wire clip.



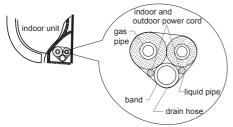
- 4. Put wiring cover back and then tighten the screw.
- 5. Close the panel.

Note:

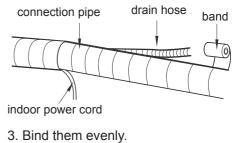
- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an air switch must be installed in the line. The air switch should be all-pole parting and the contact parting distance should be more than 3mm.

### Step eight: bind up pipe

1. Bind up the connection pipe, power cord and drain hose with the band.



2. Reserve a certain length of drain hose and power cord for installation when binding them. When binding to a certain degree, separate the indoor power and then separate the drain hose.



4. The liquid pipe and gas pipe should be bound separately at the end.

#### Note:

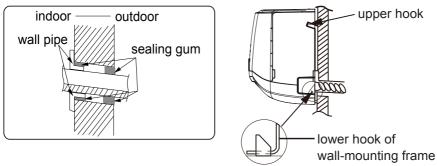
- The power cord and control wire can't be crossed or winding.
- The drain hose should be bound at the bottom.

### Step nine: hang the indoor unit

1. Put the bound pipes in the wall pipe and then make them pass through the wall hole.

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- 2. Hang the indoor unit on the wall-mounting frame.
- 3. Stuff the gap between pipes and wall hole with sealing gum.
- 4. Fix the wall pipe.
- 5. Check if the indoor unit is installed firmly and closed to the wall.



Note:

• Do not bend the drain hose too excessively in order to prevent blocking.

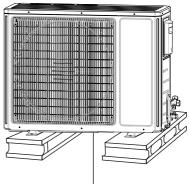
## Installation of outdoor unit

# Step one: fix the support of outdoor unit (select it according to the actual installation situation)

- 1. Select installation location according to the house structure.
- 2. Fix the support of outdoor unit on the selected location with expansion screws.

### Note:

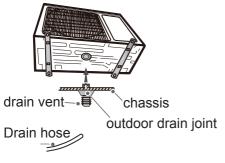
- Take sufficient protective measures when installing the outdoor unit.
- Make sure the support can withstand at least four times of the unit weight.
- The outdoor unit should be installed at least 3cm above the floor in order to install drain joint.
- For the unit with cooling capacity of 2300W
   ~5000W, 6 expansion screws are needed; for the unit with cooling capacity of 6000W
   ~8000W, 8 expansion screws are needed; for the unit with cooling capacity of 10000W
   ~16000W, 10 expansion screws are needed.



at least 3cm above the floor

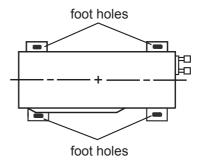
### Step two: install drain joint (Only for cooling and heating unit)

- 1. Connect the outdoor drain joint into the hole on the chassis, as shown in the picture below.
- 2. Connect the drain hose into the drain vent.



### Step three: fix outdoor unit

- 1. Place the outdoor unit on the support.
- 2. Fix the foot holes of outdoor unit with bolts.



## Installation of outdoor unit

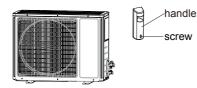
### Step four: connect indoor and outdoor pipes

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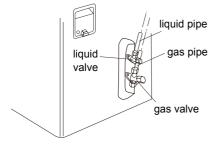
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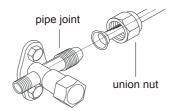
1. Remove the screw on the right handle of outdoor unit and then remove the handle.



Remove the screw cap of valve and aim the pipe joint at the bellmouth of pipe.



3. Pretightening the union nut with hand.

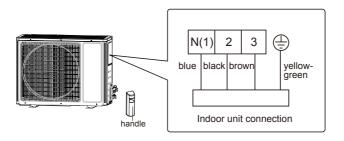


4. Tighten the union nut with torque wrench by referring to the sheet below.

Hex nut diameter	Tightening torque (N⋅m)
Φ6	15~20
Φ 9.52	30~40
Φ 12	45~55
Φ 16	60~65
Φ 19	70~75

### Step five: connect outdoor electric wire

1. Remove the wire clip; connect the power connection wire and signal control wire (only for Heat pump type) to the wiring terminal according to the color; fix them with screws.



## Installation of outdoor unit

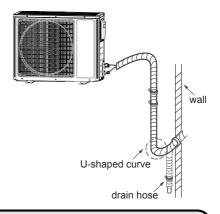
2. Fix the power connection wire and signal control wire with wire clip (only for cooling and heating unit).

#### Note:

- After tighten the screw, pull the power cord slightly to check if it is firm.
- Never cut the power connection wire to prolong or shorten the distance.

### Step six: neaten the pipes

- 1. The pipes should be placed along the wall, bent reasonably and hidden possibly. Min. semidiameter of bending the pipe is 10cm.
- If the outdoor unit is higher than the wall hole, you must set a U-shaped curve in the pipe before pipe goes into the room, in order to prevent rain from getting into the room.



### Note:

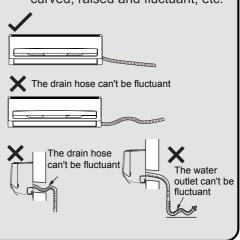
• The through-wal height of drain hose shouldn't be higher than the outlet pipe hole of indoor unit.



• The water outlet can't be placed in water in order to drain smoothly.



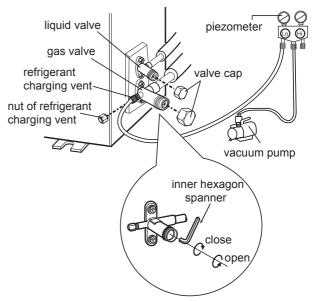
 Slant the drain hose slightly downwards. The drain hose can't be curved, raised and fluctuant, etc.



## Vacuum pumping

### Use vacuum pump

- 1. Remove the valve caps on the liquid valve and gas valve and the nut of refrigerant charging vent.
- 2. Connect the charging hose of piezometer to the refrigerant charging vent of gas valve and then connect the other charging hose to the vacuum pump.
- 3. Open the piezometer completely and operate for 10-15min to check if the pressure of piezometer remains in -0.1MPa.
- 4. Close the vacuum pump and maintain this status for 1-2min to check if the pressure of piezometer remains



in -0.1MPa. If the pressure decreases, there may be leakage.

- 5. Remove the piezometer, open the valve core of liquid valve and gas valve completely with inner hexagon spanner.
- 6. Tighten the screw caps of valves and refrigerant charging vent.
- 7. Reinstall the handle.

## Leakage detection

1. With leakage detector:

Check if there is leakage with leakage detector.

2. With soap water:

If leakage detector is not available, please use soap water for leakage detection. Apply soap water at the suspected position and keep the soap water for more than 3min. If there are air bubbles coming out of this position, there's a leakage.

## Check after installation

• Check according to the following requirement after finishing installation.

Items to be checked	Possible malfunction
Has the unit been installed firmly?	The unit may drop, shake or emit noise.
Have you done the refrigerant leakage test?	It may cause insufficient cooling (heating) capacity.
Is heat insulation of pipeline sufficient?	It may cause condensation and water dripping.
Is water drained well?	It may cause condensation and water dripping.
Is the voltage of power supply accord- ing to the voltage marked on the nameplate?	It may cause malfunction or damaging the parts.
Is electric wiring and pipeline installed correctly?	It may cause malfunction or damaging the parts.
Is the unit grounded securely?	It may cause electric leakage.
Does the power cord follow the speci- fication?	It may cause malfunction or damaging the parts.
Is there any obstruction in the air inlet and outlet?	It may cause insufficient cooling (heating) capacity.
The dust and sundries caused during installation are removed?	It may cause malfunction or damaging the parts.
The gas valve and liquid valve of connection pipe are open completely?	It may cause insufficient cooling (heating) capacity.
Is the inlet and outlet of piping hole been covered?	It may cause insufficient cooling (heating) capacity or waster eletricity.

## Test operation

#### 1. Preparation of test operation

- The client approves the air conditioner.
- Specify the important notes for air conditioner to the client.

#### 2. Method of test operation

- Put through the power, press ON/OFF button on the remote controller to start operation.
- Press MODE button to select AUTO, COOL, DRY, FAN and HEAT to check whether the operation is normal or not.
- If the ambient temperature is lower than  $16^{\circ}$ C , the air conditioner can't start cooling.

## Configuration of connection pipe

- 1. Standard length of connection pipe • 5m, 7.5m, 8m.
- 2.Min. length of connection pipe is 3m.
- 3.Max. length of connection pipe.

Cooling capacity	Max length of connec- tion pipe	Cooling capacity	Max length of connec- tion pipe
5000Btu/h (1465W)	15	24000Btu/h (7032W)	25
7000Btu/h (2051W)	15	28000Btu/h (8204W)	30
9000Btu/h (2637W)	15	36000Btu/h (10548W)	30
12000Btu/h (3516W)	20	42000Btu/h (12306W)	30
18000Btu/h (5274W)	25	48000Btu/h (14064W)	30

- 4. The additional refrigerant oil and refrigerant charging required after prolonging connection pipe
  - After the length of connection pipe is prolonged for 10m at the basis of standard length, you should add 5ml of refrigerant oil for each additional 5m of connection pipe.
  - The calculation method of additional refrigerant charging amount (on the basis of liquid pipe):

Additional refrigerant charging amount = prolonged length of liquid pipe × additional refrigerant charging amount per meter

• Basing on the length of standard pipe, add refrigerant according to the requirement as shown in the table. The additional refrigerant charging amount per meter is different according to the diameter of liquid pipe. See the following sheet.

Additional refrigerant charging amount for R22, R407C, R410A and R134a

Diameter of co	nnection pipe	Outdo	or unit throttle
Liquid pipe(mm)	Gas pipe(mm)	Cooling only(g/m)	Cooling and heating(g/m)
Ф6	Φ9.52 or Φ12	15	20
Ф6 or Ф9.52	Ф16 or Ф19	15	50
Ф12	Φ19 or Φ22.2	30	120
Ф16	Ф25.4 or Ф31.8	60	120
Ф19	-	250	250
Ф22.2	_	350	350

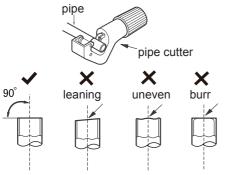
## Pipe expanding method

### Note:

Improper pipe expanding is the main cause of refrigerant leakage. Please expand the pipe according to the following steps:

A: Cut the pipe

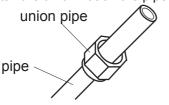
- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



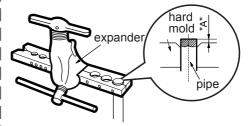
- B: Remove the burrs
- Remove the burrs with shaper and prevent the burrs from getting into the pipe.



- C: Put on suitable insulating pipe
- D: Put on the union nut
- Remove the union nut on the indoor connection pipe and outdoor valve; install the union nut on the pipe.



- E: Expand the port
- Expand the port with expander.



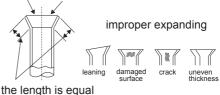
Note:

• "A" is different according to the diameter, please refer to the sheet below:

Outer diameter	A(mm)		
(mm)	Max	Min	
Ф6 - 6.35(1/4")	1.3	0.7	
Ф9.52(3/8")	1.6	1.0	
Ф12-12.7(1/2")	1.8	1.0	
Ф15.8-16(5/8")	2.4	2.2	

- F: Inspection
- Check the quality of expanding port. If there is any blemish, expand the port again according to the steps above.





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#### WARRANTY AIR CONDITIONER

The Godrej Air Conditioner comes with a FIVE year warranty on compressor and a ONE year warranty on all other parts (except grill & plastic parts) from the date of purchase, against defective material or workmanship. In case of any such defect found during the first year from date of purchase, Godrej & Boyce Mfg. Co. Ltd. - Appliance Division will undertake repairs to the warranted part free of charge, subject to terms and conditions below. In the warranty period beyond the first year from date of purchase, only the compressor will be provided free of cost, when necessary. However, the Air Conditioner will repaired on payment of necessary charges. The warranty does not cover the demonstration/installation of the Air Conditioner.

#### INSTRUCTIONS FOR THE CUSTOMER

- 1. Kindly ensure that the dealer fills the warranty card correctly and completely.
- 2. You should retain the warranty card for record and produce the same in the event of any warranty repairs.
- 3. In the event of a defect developing in the product, contact the nearest authorized Godrej & Boyce Service Center for obtaining warranty service and inform the defect, Model details & Serial No.
- Product will function between +/-10% of rated volts at 50Hz. For any fluctuation beyond specified limit, company shall not be
  responsible and warranty stands terminated.
- In areas where voltage fluctuates below 10% of rated voltage, customer is advised to use a voltage stabilizer which steps up voltage to a minimum of 190V.
- Earthing provision is necessary for safety. Improper domestic wiring leading to hazards such as shock or fire is not covered under this warranty.
- 7. The product must be maintained to ensure hygiene. If there are any insects or rodents in it causing obstruction to the functioning of the product, the company shall not be responsible and in-turn warranty stands terminated.

#### TERMS AND CONDITIONS

- 1. Repairs and replacement will be carried out by the companies authorized service centers or through authorized dealer's service center.
- 2. All transportation and handling expenses incurred while repairing will be payable by the customer in advance.
- 3. For any Air Conditioner installed beyond the municipal limits of the jurisdiction of the authorized customer service center, charges towards technician's visit will be borne by the customer
- 4. While the company will make every effort to carry out the repairs at the earliest, it however is made expressly clear that the company is under no obligation to do so in a specified period of time.
- 5. The company will retain any part(s), compressor and/or other components when replaced at its discretion.
- 6. Warranty does not cover accessories to the Air Conditioner.
- 7. Refrigeration system gas charging and consumables will be charged for any such repairs after one year from the date of purchase.
- Company will not be liable for any consequential loss or compensation nor refund of purchase price nor replacement of the Air Conditioner.
- 9. Customer must ensure the routine maintenance including cleaning of filter etc. for proper operation.
- 10. Any change in location/damages on handling will be serviced at extra material and labor cost.
- 11. While Company would take all necessary steps to repair the Air Conditioner supplied under the warranty and keep sufficient stock of the spare parts of the Air Conditioner with them, however, in certain cases, at the sole discretion of the Company, the Company may due to non-availability of spare parts of the Air Conditioner, resulting into the Air Conditioner not being repaired by the Company, offer a replacement scheme to the purchasers of such Air Conditioner which cannot be repaired due to non-availability of spare parts of the Air Conditioner, purchased under the warranty, the Company would offer a replacement of the Air Conditioner. The details of the replacement offer is subject to change from year to year and shall also be applicable on the MRP of the product to be purchased as a replacement.
- Two (2) free preventive maintenance service (Labour only) will be provided to the customer during first year warranty period. To avail these free services customer has to register the call at the call center number 1800 209 5511. After expiry of 12 (twelve) months from date of purchase company is not liable for any free service.
- Any Damage due to rodent attacks or environment conditions like electrical surges or low voltages will be repaired on chargeable basis.

#### Godrej & Boyce Mfg. Co. Ltd.- Appliance Division CUSTOMER COPY

#### MODEL NO. AIR CONDITIONER SERIAL No.:

#### CUSTOMER'S NAME & ADDRESS

#### DATE OF PURCHASE

TEL.

DEALER'S NAME & ADDRESS

TEL.

#### Customer's Signature:

This warranty is valid only if it is filled in and stamped by our authorized dealer on the date of purchase.

#### Warranty Voids If:

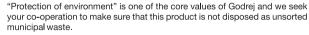
1. The warranty card is not completed properly at the time of purchase. 2. The completed warranty card is not presented to the authorized personnel at the time of service of the product. 3. The Air Conditioner is not operated and maintained according to instructions given in the 'User Guide'. 4. Defects are caused by improper use, which shall be determined by the company personnel. 5. Unauthorized persons carry out any repair work. 6. Defects are caused by reasons beyond control, like abnormal voltage (exceed 253 V or below 207 V), acts of God, or while in transit to service center or purchaser's residence. 7. The warranty is not valid in case the serial number is deleted, defaced or altered. 8. Damage to the Air Conditioner or any parts due to transportation or shifting is not covered by the warranty. 9. The warranty automatically expires after the stipulated period from the original date of purchase, even if the Air Conditioner may not be in use for any time for whatever reasons.

Branch	Address
Ahmedabad	4th Floor, APM Shopping Mall Near IOCL Petrol Pump, Shyamal- Karnavati, 100 ft. Road, Satellite, Ahmedabad - 380 015
Bangalore	3rd Floor, The Karnataka Film Chamber of Commerce Bldg. 28, 1st Main Crescent Road, High Grounds Nr. Shivanand Circle, Bangalore - 560 001
Bhopal	217, Zone I, M.P. Nagar, Beh. Jyoti Talkies, Bhopal - 462 011
Bhubaneshwar	Highway Complex, NH-5, Rudrapur, Bhubaneshwar - 752 101
Chandigarh/Mohali	Plot No. A-40, Phase VIII-A, Industrial Area, Mohali - 160 059
Chennai	No. 1, Sidco Industrial Estate, Ambattur, Chennai - 600 098
Coimbatore	No. 585 - 590 3rd Floor, Sathya Towers, DB Road, R S Puram, Coimbatore - 641002
Delhi	Godrej Bhavan, 2nd Floor, Shershah Suri Marg, Mathura Road, Okhla New Delhi - 110 065
Faridabad	Godrej Bhavan, 2nd Floor, Shershah Suri Marg, Mathura Road, Okhla New Delhi - 110 065
Ghaziabad	Plot No. 229/230, Sardar Pashu Ahaar, Bulandshahar Road, Village chaprolla, Ghaziabad
Guwahati	Basundhara Enclave, 1st & 2nd Floor Ulubari, Guwahati – 781007
Hyderabad	201 & 202, Lala-1 Land Mark, 5-4-94 to 97, 2nd Floor, Above Digita Shoppy, Ranigunj, M.G. Road, Secunderabad -500 003
Jaipur	502-506, 5th Floor, Gaurav Towers, Malviya Nagar, Jaipur - 302 017
Kochi	2nd floor, Angels Arcade, South Kalamasserry, Near CUSAT PO Kochi - 682022
Kolkata	Plot-30, Block-GN, Sector-V, Salt Lake city, Kolkata - 700 091
Lucknow	C-3/3 & C-3/4, Sanjay Complex, Near All India Radio, Vidhan Sabha Marg Lucknow-226001
Mumbai	Appliance Division, Plant 4, Pirojshahnagar, Vikhroli, Mumbai - 400 079
Nagpur	Dr. Bhiwapurkar Chamber, 2nd Floor, Opp. Yashwant Stadium, Dhantoli Nagpur - 440 012
Patna	Grand Plaza 6th Floor, 6001-6004, Dakbunglow Crossing. Frazer Road Patna-800001
Pune	Apollo Building Square, Plot No. 60, Survey No. 599, Sahaney Sujan Park Lullanagar, Bibewadi Road, Pune - 411 040
Raipur	9/1, Besides Bharat Petrol Pump, Opp, Hotel Picadelly, Mahoba Bazaar G.E. Road, Raipur - 492 001, Chhatisgarh
Ranchi	C/o. Surya Motors, Near Krishi Bazaar Samiti Pandra, Ranchi (Jharkand) 835 222
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#### **Protection of Environment:**



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