

# USER'S MANUAL

## Split Type Room Air Conditioner

### **IMPORTANT NOTES:**

Read this manual carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference.





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**SERVICE HELPLINE**  
**1800 1033 333**

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Dear Customer,

For trouble free services please register with Carrier Customer Care on 1800 1033 333 or write to us at :  
[carriercare@carriermidea.com](mailto:carriercare@carriermidea.com)

Manager

Customer Services





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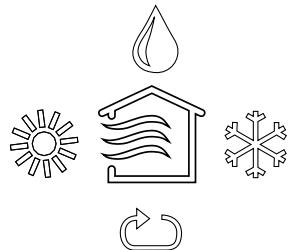
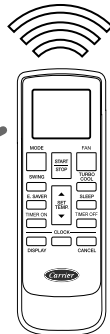


**Caution:** Risk of fire  
(for R32 refrigerant only )

# SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER

- ⚠ Read this guide before installing and using the appliance.
- ⚠ During the installation of the indoor and outdoor units the access to the working area should be forbidden to children. Unforeseeable accidents could happen.
- ⚠ Make sure that the base of the outdoor unit is firmly fixed.
- ⚠ Check that air cannot enter the refrigerant system and check for refrigerant leaks when moving the air conditioner.
- ⚠ Carry out a test cycle after installing the air conditioner and record the operating data.
- ⚠ The ratings of the fuse installed in the built-in control unit are 20A / 250V.
- ⚠ The user must protect the indoor unit with a fuse of suitable capacity for the maximum input current or with another overload protection device.
- ⚠ Ensure that the mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.
- ⚠ Check that the socket is suitable for the plug, otherwise have the socket changed.
- ⚠ 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 II conditions, and these means must be incorporated in the fixed wiring in accordance with the wiring rules.

- ⚠ Do not install the appliance at a distance of less than 50 cm from inflammable substances (alcohol, etc.) Or from pressurised containers (e.g. spray cans).
- ⚠ If the appliance is used in areas without the possibility of ventilation, precautions must be taken to prevent any leaks of refrigerant gas from remaining in the environment and creating a danger of fire
- ⚠ The packaging materials are recyclable and should be disposed of in the separate waste bins. Take the air conditioner at the end of its useful life to a special waste collection centre for disposal.
- ⚠ Only use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are therefore always recommended for installation, operation and maintenance.
- ⚠ The appliance must be installed in accordance with applicable national regulations.
- ⚠ Before accessing the terminals, all the power circuits must be disconnected from the power supply.
- ⚠ The appliance shall be installed in accordance with national wiring regulations.
- ⚠ The air conditioner must be installed by professional or qualified persons.



## SAFETY RULES AND RECOMMENDATIONS FOR THE USER

- ⚠ Do not try to install the conditioner alone; always contact specialized technical personnel.
- ⚠ Cleaning and maintenance must be carried out by specialised technical personnel. In any case disconnect the appliance from the mains electricity supply before carrying out any cleaning or maintenance.
- ⚠ Ensure that the mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.
- ⚠ Do not pull out the plug to switch off the appliance when it is in operation, since this could create a spark and cause a fire, etc.
- ⚠ This appliance has been made for air conditioning domestic environments and must not be used for any other purpose, such as for drying clothes, cooling food, etc.
- ⚠ The packaging materials are recyclable and should be disposed of in the separate waste bins. Take the air conditioner at the end of its useful life to a special waste collection centre for disposal.
- ⚠ Always use the appliance with the air filter mounted. The use of the conditioner without air filter could cause an excessive accumulation of dust or waste on the inner parts of the device with possible subsequent failures.
- ⚠ The user is responsible for having the appliance installed by a qualified technician, who must check that it is earthed in accordance with current legislation and insert a thermomagnetic circuit breaker.
- ⚠ 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.
- ⚠ Never remain directly exposed to the flow of cold air for a long time. The direct and prolonged exposition to cold air could be dangerous for your health. Particular care should be taken in the rooms where there are children, old or sick people.
- ⚠ If the appliance gives off smoke or there is a smell of burning, immediately cut off the power supply and contact the Service Centre.
- ⚠ The prolonged use of the device in such conditions could cause fire or electrocution.
- ⚠ Have repairs carried out only by an authorised Service Centre of the manufacturer. Incorrect repair could expose the user to the risk of electric shock, etc.
- ⚠ Unhook the automatic switch if you foresee not to use the device for a long time. The airflow direction must be properly adjusted.
- ⚠ The flaps must be directed downwards in the heating mode and upwards in the cooling mode.
- ⚠ Only use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are therefore always recommended for installation, operation and maintenance.
- ⚠ Ensure that the appliance is disconnected from the power supply when it will remain inoperative for a long period and before carrying out any cleaning or maintenance.
- ⚠ Selecting the most suitable temperature can prevent damage to the appliance.



## SAFETY RULES AND PROHIBITIONS

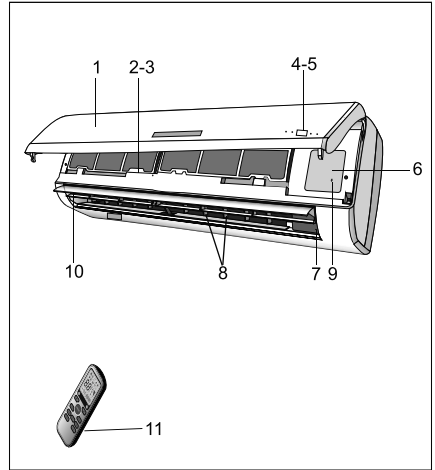
- Do not bend, tug or compress the power cord since this could damage it. Electrical shocks or fire are probably due to a damaged power cord. Specialised technical personnel only must replace a damaged power cord.
- Do not use extensions or gang modules.
- Do not touch the appliance when barefoot or parts of the body are wet or damp.
- Do not obstruct the air inlet or outlet of the indoor or the outdoor unit. The obstruction of these openings causes a reduction in the operative efficiency of the conditioner with possible consequent failures or damages.
- In no way alter the characteristics of the appliance.
- Do not install the appliance in environments where the air could contain gas, oil or sulphur or near sources of heat.
- 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.
- Do not climb onto or place any heavy or hot objects on top of the appliance.
- Do not leave windows or doors open for long when the air conditioner is operating.
- Do not direct the airflow onto plants or animals.
- A long direct exposition to the flow of cold air of the conditioner could have negative effects on plants and animals.
- Do not put the conditioner in contact with water. The electrical insulation could be damaged and thus causing electrocution.
- Do not climb onto or place any objects on the outdoor unit
- Never insert a stick or similar object into the appliance. It could cause injury.
- Children should be supervised to ensure that they do not play with 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.



## NAMES OF THE PARTS

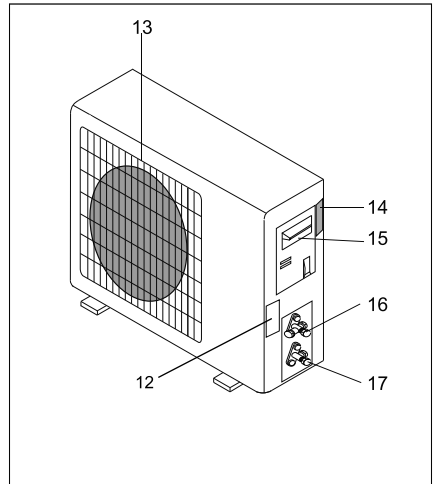
### INDOOR UNIT

No.	Description
1	Front panel
2	Air filter
3	Optional filter (if installed)
4	LED Display
5	Signal receiver
6	Terminal block cover
7	Ionizer generator (if installed)
8	Deflectors
9	Emergency button
10	Airflow direction flaps
11	Remote control



### OUTDOOR UNIT

No.	Description
12	Caution Sticker R32
13	Air outlet grille
14	Outdoor unit rating label
15	Cover
16	gas valve
17	liquid valve



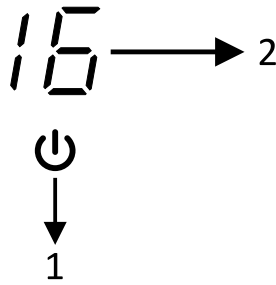
#### WALL AIR-CONDITIONER

- The conditioner is made up of two or more units connected between themselves through copper pipes (properly insulated) and an electrical connecting cable.
- The indoor unit is installed on the walls of the room to be conditioned.
- The outdoor unit is installed on the floor or on the wall on suitable brackets.
- Technical data of the air conditioner are printed on the labels placed on the indoor and outdoor units.
- The remote control has been designed for an easy and fast use.

*Note: the above figures are only intended to be a simple diagram of the appliance and may not correspond to the appearance of the units that have been purchased.*

As Per of Bureau of Energy (Govt. of India) guidelines, Default set temperature has been kept as 24°C whenever the AC operated by remote. if user wants to change the set temperature, then user can set the desired temperature through remote key, as per his/her requirement.

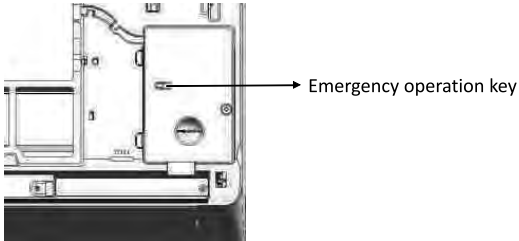
## Indoor Display



- 1. Power indicator**  
Illuminates when the Air conditioner is in standby mode.
- 2. Digital Display indicator**  
Displays the current temperature setting when the air conditioner is in operation.

# Emergency Operation Key

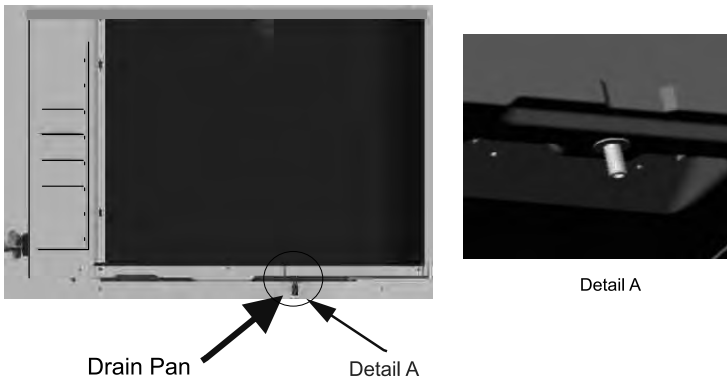
This button can be used as an emergency measure to turn on/off unit when remote controller is not available.



When the remote controller is lost or damaged, use the emergency operation key on the main unit. In such an event, the unit operates in the Auto Mode.

## Drain pan: (Applicable for Heat-Cool series models)

The provision of drain pan given in outdoor unit is for draining the water when machine runs in heat mode.



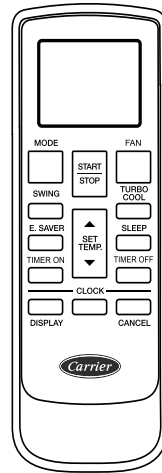
Refer the image for assembled drain pan in outdoor unit.

# General Feature & Replacement of Batteries

## GENERAL FEATURE:

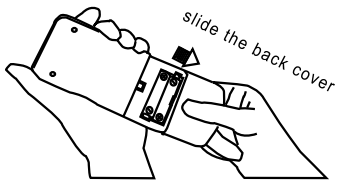
The Controller has following features--

- Display : Dual digit display with 7 Led Indicators.
- Preset temperature setting from 16°C to 30°C.
- Compressor delay protection.
- Different fan speed i.e. Low, Medium, High and Auto.
- Timer can be set in hour to turn ON/OFF the machine.
- Memory backup in case of power failure.



## REMOTE:

## **REPLACEMENT OF BATTERIES**

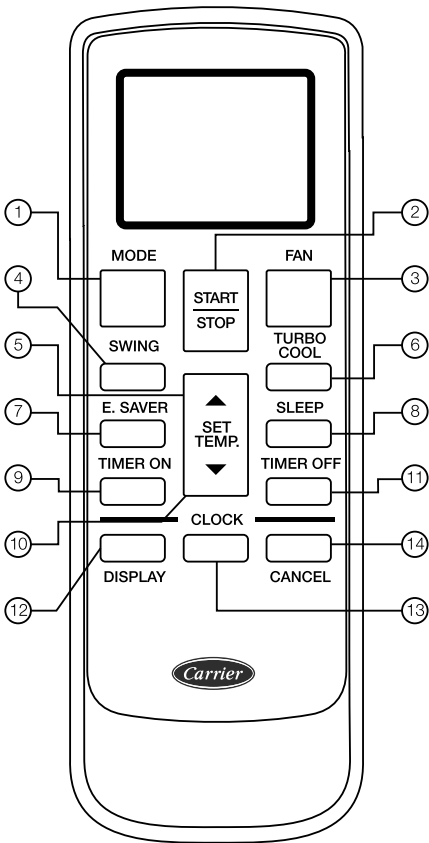


Remote Controller 1

- When the signal from the remote controller becomes weak and the indoor unit can not receive it properly; or the indications on the display screen becomes blurred, please slide the back cover and replace with two new batteries.
- The positive and negative poles must match the installation positions.
- New batteries of the same type have to be used for replacement.
- If the remote controller is not to be used for long time, take out the batteries so as to prevent the leakage of the electrolyte from damaging the controller.
- If when the remote controller is at abnormal state, you can take out the batteries on the back cover to clear off the display.



# Remote Controller



REMOTE

1. **MODE BUTTON**  
Press this button to select the **operation mode**
2. **START/STOP BUTTON**  
The appliance will be **started** when it is energized or will be or will be **stopped** when it is in operation, if you press this button.
3. **FAN BUTTON**  
Used to select **fan speed** in sequence **low, medium, high & auto.**
4. **SWING BUTTON**  
Used to **stop** or **start** vertical adjustment louver swinging and set the desired **up/down** airflow direction.
- 5/10. **SET TEMPERATURE SETTING BUTTONS**  
Used to set temperature and timer.
6. **TURBO COOL**  
Used to **start** or **stop** the fast **cooling/heating**. (Fast cooling operates at **high fan speed** with **16°C** set temp automatically; Fast heating Operates at high fan speed. Automatically)
7. **E. SAVER**  
Used in **cooling mode** by setting Temp to **24°C** keeping the **fan speed medium**.
8. **SLEEP**  
Used to **set** or **cancel** Sleep Mode operation.
- 9/11. **TIMER ON/OFF button**  
Used to **set** or **cancel** the timer operation.
12. **DISPLAY BUTTON**  
Whenever light function is enabled, **display** will **go off** except function indicator. Also if light is enabled, if user press **key**, **display** will **on** for **5 sec** only from the last key pressed.
13. **CLOCK BUTTON**  
Used to **set** the **current time**.
14. **CANCEL BUTTON**  
Used to **cancel** the **set time**.

# REMOTE CONTROLLER FUNCTIONS

## **I/O ON/OFF**

Press this key to turn the machine on/off. The AC always starts with the previous settings.

Note :- Under Cool/Dry mode, If user set the temperature below 24 degree in prior to switching off AC and then if AC is turned on by Remote, AC will start operating at 24 degree temperature only. If user set the temperature 24 degree or above 24 degree in Cool/Dry mode prior to switching off AC and then if AC is turned on by Remote, AC will start operating at previous set temperature by user.

## **FAN**

Pressing this key, Fan speed will change in Low - Medium -High -Auto fan speed sequence. Auto speed can be set only in cool mode. In Auto speed operation, fan speed will be controlled automatically based on the difference between the set and room temperature. If the user feels uncomfortable due to auto Fan operation, he can switch to manual selection of fan speed.

## **MODE**

Select Auto, Cool, Dry, Fan and Heat function by using mode key. (Heat mode will be applicable for heat cool series models only).

## **UP/DOWN**

Set Temperature and timer value can be increased/decreased by using this key

## **SWING**

Using this key, swing positions change accordingly. Swing enable or disable can also be set.

## **TIMER**

Press this button to initiate auto ON and auto OFF time sequence. Each press will increase the auto timed setting in 1 hour increments. To set the time use up and down keys. To Set TIMER ON/OFF, Press Timer Button and SET button for activation of Timer ON/OFF.

If you pressed TIMER button when AC is ON and set time using remote handset, the AC will turned OFF after set time duration is completed.

And if you pressed TIMER button when AC is OFF and set time using remote handset, the AC will turned ON after set time duration is completed. To Deactivate timer ON/OFF function once set, Then Press Timer ON/OFF button 2 Times.

## **SLEEP**

Sleep function can be set in cool mode & \*Heat mode, it can enabled or disabled by pressing this key.

The set temp. will increase (cooling) or decrease (heating) by 1°C the first 2 hrs. Thereafter it keeps this new temp. increase (cooling) or decrease (heating) by 2°C next 5 hrs. After 8 hours Sleep function gets cancelled automatically.

## **TURBO COOL**

Turbo feature can be operated by pressing turbo key. Enabling turbo key will set the fan speed at turbo

## **CANCEL**

It is used to cancel the on/off timer function.

## **CLOCK**

This button is nominated by CLOCK on remote control unit.

It show the real time clock o remote display and it set by pressing temp up or down key.

# OPERATING MODE

## OPERATING MODES :

### 1. AUTO MODE :

- The AC automatically selects the mode in which it should run by judging the difference in the ambient temperature and the set temperature.
- In Auto mode Temperature can't be changed.

### 2. COOL MODE :

- In cool Mode set temperature is adjustable between 16 Degree to 30 Degree C.
- Indoor fan will run at selected fan speed.

### 3. DRY MODE :

- This mode removes excess humidity from the room.
- **Display :** In dry mode, display will show Preset temperature.
- Fan speed can't be changed.

### 4. HEAT MODE : (It will be applicable for Heat Cool Series models only)

- In Heat Mode set temperature is adjustable between 16 Degree to 30 Degree C.
- Indoor fan will run at selected fan speed.

### 5. FAN MODE :

- Indoor fan will run at selected speed.
- Compressor will be off in fan mode.

## DISPLAY FEATURE :

**Seven Segments Display :** Preset temperature will appear for all the time on the Display but if user presses the TEMP key then ROOM TEMP. will appear for 5 second on IDU Display and after that again SET TEMP. will appear on it. While the room temp. appears on the display, if user presses the temp up/down key, set temp. will appear on the display and feeling get disabled.

## HEATING MODE PROTECTION (It will be applicable for Heat Cool Series models only)

### **Cold wind protection function:**

When compressor on 2min later, 19°C in Rising Edge fan operation. If 15°C in falling edge, the IDU does not work.

When 38°C, IDU fan speed can be control by remote. (Silent, Low, Mid, High, Turbo)

### **Blowing waste heat function:**

Remote off at heat mode. IDU fan running low wind speed. angle for 1min.

### **Defrosting Control:**

Enter defrosting, when < 24°C, IDU fan motor will stop;

If the compressor is running and > 37°C the Swing stops and the Fan speed Mid.

If the compressor stop and ≤ 37°C, the Swing enter default angle and the Fan speed Mid.

During defrosting and within 3 minutes after the end of defrosting, shielding Te error shown

# Protection

## ERROR SIGNALS ON THE DISPLAY

Code	Error Description
E5/H6	IDU Fan Motor Protection
E1	Room Sensor Error (display show E1 & Preset temperature alternate after every 4 seconds.)
E2	Evaporator Sensor Error (display show E2 & Preset temperature alternate every 4 seconds.)
dF	Frost Protection

### OPERATING CONDITIONS

1. Use this air conditioner under following conditions

Mode	Cool
Indoor temperature	16°C to 30°C
Outdoor temperature	16°C to 52°C
Indoor humidity	80% or less relative humidity

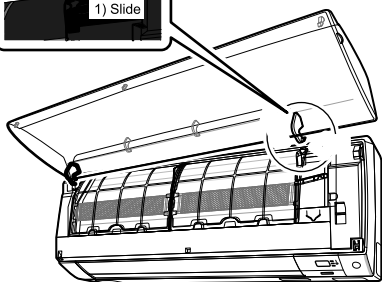
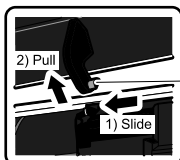
- If the air conditioner operates in a high humidity environment in the cool mode for an extended period of time, condensation may occur.
2. The performance parameters refer to name plate.
  3. Do not use the indoor unit in the laundry or bathroom.
  4. The **outdoor unit** should not be installed in a **closed area**.

# CLEAN AND CARE

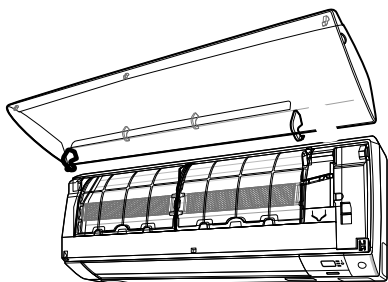
## Front panel

### 1. Remove the front panel.

- Open the front panel.
- Slide the front panel to either the left or right and pulling it toward you. This will disconnect the front panel shaft on one side.



- Disconnect the front panel shaft on the other side in the same manner.

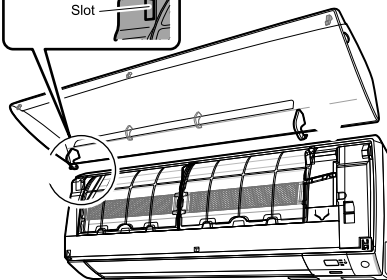
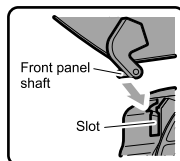


### 2. Clean the front panel.

- Wipe it with a soft cloth soaked in water.
- Only neutral detergent may be used.
- In case of washing the panel with water, wipe it with dry soft cloth, dry it up in the shade after washing.

### 3. Attach the front panel.

- Align the front panel shaft on the left and right of the front panel with the slots, then push them all the way in.



- Close the front panel slowly. (Press the panel at both sides and the central area.)

## CAUTION

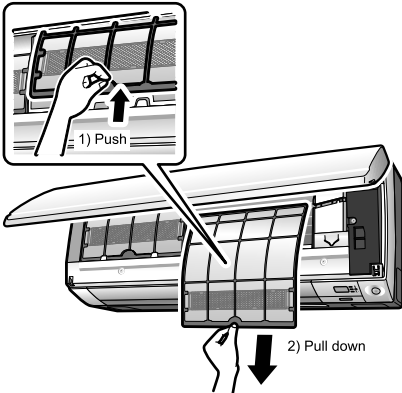
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent it from falling. After cleaning, make sure that the front panel is securely fixed.

# CLEAN AND CARE

## Air filter

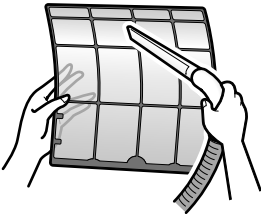
### 1. Pull out the air filters.

- Open the front panel.
- Push a little upwards the filter tab at the center of each air filter, then pull it down.



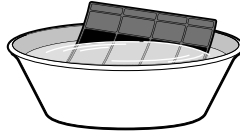
### 2. Wash the air filters with water or clean them with vacuum cleaner.

- It is recommended to clean the air filters every 2 weeks.



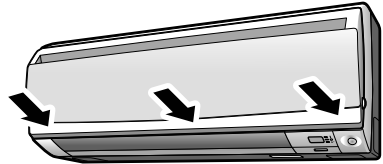
#### If the dust does not come off easily

- Wash the airfilters with neutral detergent thinned with lukewarm water, then dry them up in the shade.



### 3. Set the filters as they were and close the front panel.

- Press the front panel at both sides and the central area.



## CAUTION

- Do not touch the aluminum fins by bare hand at the time of dismantling or mounting the filter.

# CLEAN AND CARE


## ò Check the units


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- ò Check that the base, stand and other fittings of the outdoor unit are not decayed or corroded.
  - ò Check that nothing blocks the air inlets and the outlets of the indoor unit and the outdoor unit.
  - ò Check that the drain comes smoothly out of the drain hose during COOL or DRY operation.
    - If no drain water is seen, water may be leaking from the indoor unit. Stop operation and consult the service shop if this is the case.
- 

## ò Before a long idle period

### 1. Operate the “FAN only” for several hours on a fine day to dry out the inside.

• Press **MODE** and select “” operation.

Press  and start the operation.

### 2. After operation stops, turn off the breaker for the room air conditioner.

### 3. Clean the air filters and set them again.

### 4. Take out batteries from the remote controller.

- When a multi outdoor unit is connected, make sure the heating operation is not used at the other room before you use the fan operation.

## ò We recommend periodical maintenance

- In certain operating conditions, the inside of the air conditioner may get foul after several seasons of use, resulting in poor performance. It is recommended to have periodical maintenance by a specialist aside from regular cleaning by the user.
- For specialist maintenance, contact the service shop where you bought the air conditioner.
- The maintenance cost must be born by the user.

# TROUBLESHOOTING



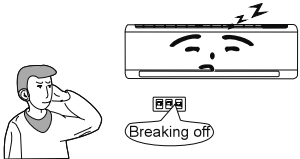
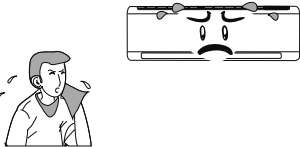
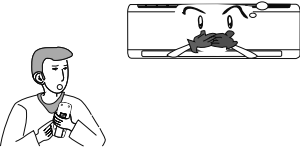
## CAUTION

Don't attempt to repair the air conditioner by yourself, it can cause an electric shock or fire. Please check the following items before asking for repair, it can save your time and money.

Phenomenon	Troubleshooting
<p>Does not operate immediately when the air conditioner is restarted.</p> <div style="display: flex; align-items: center;"> </div>	<ul style="list-style-type: none"> <li>● Once the air conditioner is stopped, Compressor will take approx. 3 minutes to restart.</li> </ul>
<p>There's unusual smell blowing from the outlet after operation is started.</p> <div style="display: flex; align-items: center;"> </div>	<ul style="list-style-type: none"> <li>● The unit has no peculiar smell by itself. If has, that is due to the smell accumulated in the ambient.</li> <li>● Solution method : Cleaning the filter. If the problem still persists, so need to clean air conditioner. (Please contact with the authorized maintenance center.)</li> </ul>
<p>Sound of water flow can be heard during the operation.</p> <div style="display: flex; align-items: center;"> </div>	<ul style="list-style-type: none"> <li>● While air conditioner is running for while the compressor get started or stopped, Refrigerated sound can be heard.</li> <li>● This is a normal function.</li> </ul>
<p>In COOL mode, sometimes the mist emitted from the air outlet vent.</p> <div style="display: flex; align-items: center;"> </div>	<ul style="list-style-type: none"> <li>● When the indoor temperature and humidity are very high, this phenomenon would happen. This is caused by the room air is swiftly cooled down. After running for a while, indoor temperature and humidity will fall down, the mist will go away.</li> </ul>
<p>Creaking noise can be heard when start or stop the unit.</p> <div style="display: flex; align-items: center;"> </div>	<ul style="list-style-type: none"> <li>● This is caused by the deformation of plastic due to the changes in temperature.</li> </ul>



# TROUBLESHOOTING

Phenomenon	Troubleshooting
<p>The unit does not run.</p> 	<ul style="list-style-type: none"> <li>● Has the power been shut down?</li> <li>● Is the power plug loose?</li> <li>● Is the circuit protection device tripped off or not?</li> <li>● Is voltage higher or lower? (Tested by professionals)</li> <li>● Is the TIMER correctly used?</li> </ul>
<p>Cooling(Heating) efficiency is not good.</p> 	<ul style="list-style-type: none"> <li>● Is Temp. setting suitable?</li> <li>● Were inlet and outlet vents obstructed?</li> <li>● Is filter dirty?</li> <li>● Are the windows and doors closed?</li> <li>● Was Fan speed set at low speed?</li> <li>● Is there any heat sources in the room?</li> </ul>
<p>Wireless remote control is not available.</p> 	<ul style="list-style-type: none"> <li>● The unit is interfered by abnormal or frequent functions switchover occasionally the controller cannot operate. At this time, you need to pull out of the plug, and reinsert it.</li> <li>● Is it in its receiving range? Or obstructed? check the batteries is charged, otherwise to replace the batteries.</li> <li>● Whether the wireless remote control is damaged.</li> </ul>
<p>If water leakage in the room.</p>	<ul style="list-style-type: none"> <li>● The air humidity is on the high side.</li> <li>● Condensing water over flowed.</li> <li>● The connection position of indoor unit drainage pipe is loosed.</li> </ul>
<p>If water leakage in outdoor unit.</p>	<ul style="list-style-type: none"> <li>● When the unit is running in COOL mode, the pipe and connection of pipe would be condensed due to the water cooled down.</li> <li>● When the unit is running in Auto Defrosting mode the ice thaws and flows out.</li> <li>● When the unit is running in HEAT mode, the water adhered on heat exchanger drips off.</li> </ul>
<p>Noise from indoor unit emitted.</p>	<ul style="list-style-type: none"> <li>● The sound of fan or compressor relay is switching on or off.</li> <li>● When the defrosting is started or stop running, it. That is due to the refrigerant flowed to the reverse direction. Can be the sound of fan on the compressor, switching on and off while defrostin g, as the refrigerant flows in the opposite direction.</li> </ul>

# TROUBLESHOOTING

Phenomenon	Troubleshooting
<p>Indoor unit does not blow air.</p> <p>(* Applicable for Heat Cool models only.)</p>	<ul style="list-style-type: none"> <li>● In HEAT mode, when the temperature of indoor heat exchanger is very low, that will stop deliver air in order to prevent cool air. (Within 2min)</li> <li>* ● In HEAT mode, when the outdoor temperature is low or high humidity, there are much frost formed on the outdoor heat exchanger, that the unit will automatically defrost due to which, indoor unit stop blowing air for 3-12min. During the defrosting, there is water flowing out or vapor be produced. <b>(Heat Mode will be applicable for Heat Cool Series models only)</b></li> <li>● In dehumidifying mode, sometimes indoor fan get stop, in order to avoid condensing water be vaporized again, to restrain temperature from rising.</li> </ul>
<p>Moisture on air outlet vent.</p>	<ul style="list-style-type: none"> <li>● If unit is running under the high humidity for a long time, the moisture will be condensed on the air outlet grill and drip off.</li> </ul>



**Immediately stop all operations and plug out,  
Dial the Service No. 18001033333**

There is harsh sound during operation.  
 The terrible odour emitted during operation.  
 Water is leaking in the room.  
 Air switch or protection switch often breaks.  
 Carelessly splash water or something into unit.  
 There is an abnormal heat in power supply cord and power plug.

▶ **Stop running and pull out of the plug.**

# Instructions for Installation

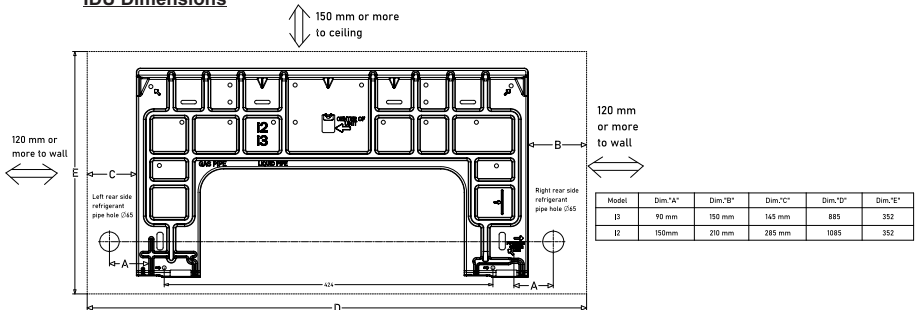
## 【Selection of installation positions for indoor unit】

- To be installed at the position where the air delivered from the unit can reach every corner of the room;
- To avoid being affected by the outdoor air;
- To avoid blockage to the air inlet or outlet of the unit;
- To avoid too much oil smoke or steam;
- To avoid possible generation, inflow, lingering or leakage of flammable gases;
- To avoid high-frequency facilities (such as high frequency arc welders, etc.);
- To avoid the places where acid solutions are frequently used;
- To avoid the places where some special sprayers (sulfides) are frequently used.
- Not to install on top of the musical instruments, TV, computer etc. valuable appliance.
- Not to install a fire alarming device near the air outlet of the unit (during operation, the fire alarm device might be erroneously triggered by the warm air from the unit);

## ■ Make sure of enough space for installation and maintenance.

- To take into consideration the operational convenience and safety in installation, it is recommended to ensure enough space between the unit and the walls.

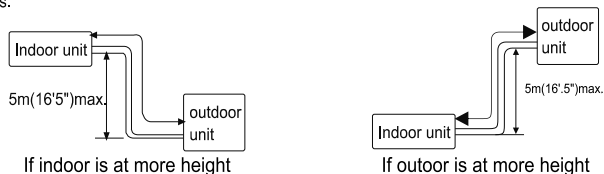
### IDU Dimensions



**Attention:** If there are some additional function devices to install on the air conditioner, Be sure add to the installation space for the function devices.

## ■ Height limits of indoor and outdoor units.

- Either the indoor unit or the outdoor unit can be higher, but the height difference must comply the stated requirements.
- Try to reduce the bending of the piping line as much as possible so as to avoid possible negative impacts upon the performances of the units.

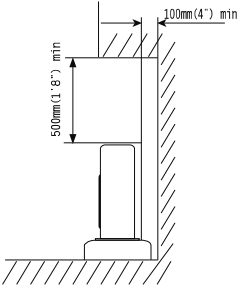
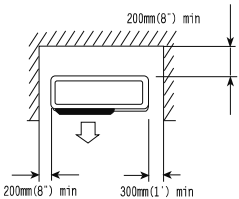
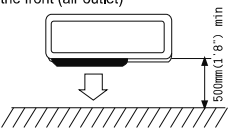
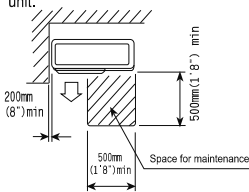
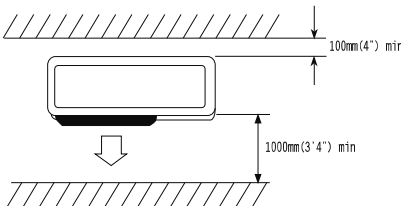
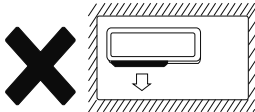


# Instructions for Installation

## 【Selection of installation positions for outdoor unit】

- To install the outdoor unit at the places which can stand the load of the machine weight and will not cause big vibrations and noises;
- To install the unit at the places not to be exposed to rain or direct sunshine, and the places with good ventilation;
- The noises generated from the unit will not affect the neighboring places;
- Do not install the unit on non-metal frame;
- Not to install the unit at the places where there might occur the generation, inflow, stay or leakage of inflammable gases;
- Pay attention to the drainage of the condensed water from the base plate during operations;
- To avoid the air outlet being directly against the wind.

## Detailed space requirements around the outdoor unit

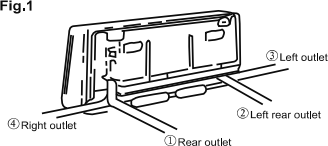
<p>1. When there are obstacles above the unit</p> 	<p>2. When the front (air outlet) is open</p> 	<p>3. When there are obstacles only in the front (air outlet)</p>  <p><b>Space for maintenance</b> Shown as in the following figure. Keep the maintenance space in front of the unit.</p> 
<p>4. When there are obstacles at the front and rear sides.</p> 		<p>5. When there are obstacles <b>all</b> around the unit on four sides. Although the top side is open, the installation is not to be done if there are obstacles all around.</p>  <ul style="list-style-type: none"><li>● At least two sides should be kept open.</li></ul>

# Instructions for Installation

## 【Installation fixture of indoor unit】

Pipelines can be connected in the directions of ①、②、③ and ④ as indicated in Fig.1. When the pipelines are connected to the directions of ③ and ④, a groove for the pipes has to be opened at the proper place on the base stand.

Fig.1



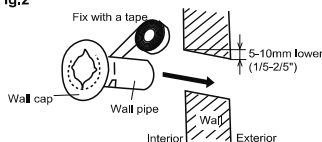
### 1.Installation of wall-mounting plate

Fix the wall-mounting plate firmly on the wall with screws. Make sure of the leveling of the plate. Slanted wall-mounting plate might jeopardize the smooth discharge of the condensed water.

### 2.Drill holes on the wall

Drill holes at places slightly below the wall-mounting plate, with hole diameter of 65mm(2-3/5") and the outer edge of the hole 5-10mm(1/5-2/5") lower (Fig.2) so that the condensed water can smoothly flow out. Cut the wall penetrating pipe to proper length according to the thickness of the wall (3-5mm(1/10-1/5") longer than the wall thickness) and insert the pipe as indicated in Fig.2.

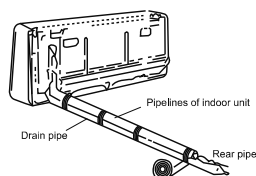
Fig.2



### 3.Installation of drain pipe

Install the pipelines of the indoor unit in accordance with the direction of the wall holes. Wrap tightly the drain pipe and the pipelines with tape. Make sure that the drain pipe is underneath the pipelines. (Fig.3) (When the drain pipe passes the room interior, some condensed water might occur to its surfaces if the humidity is very high).

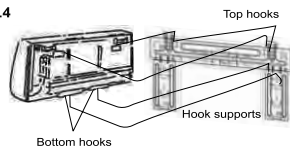
Fig.3



### 4.Installation of indoor unit

Pass the connection wires, connecting pipelines and drain pipe through the wall hole. Hang the indoor unit on the hooks at the top of the wall-mounting plate so that the hooks at the bottom of the indoor unit match the hooks of the wall-mounting plate. (Fig.4)

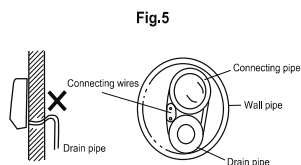
Fig.4



# Instructions for Installation

## Inspections:

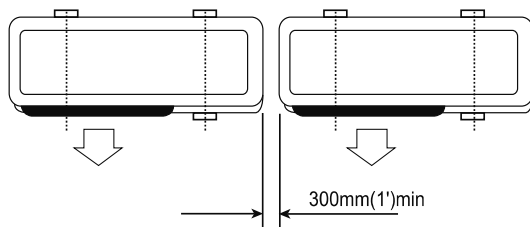
- Check if the hooks at the top and bottom are firmly fixed.
- Check if the position of the master unit is properly leveled.
- The drain pipe should not curve upward (Fig.5).
- The drain pipe should be at the lower part of the wall pipes (Fig. 5).



## 【Installation fixture of outdoor unit】

- Try to ship the product to the installation location in its original package;
- As the gravity center of the unit is not at the installation center, special caution should be taken when using hoisting cables to lift it up;
- During shipping, the outdoor unit must not be slanted to over 45 degrees (Do not store the unit in a horizontal way).
- Use expansion bolts to fix the mounting supports on the wall;
- Use bolts and nuts to fix the outdoor unit firmly on the supports and keep on the same level;
- If the unit is installed on the wall or at the rooftop, the supports have to be firmly fixed so as to resist earthquake or strong wind.

## Dimensions for parallel units installations



## 【Ordinary pipelines connection & Air purging】

- The following ordinary pipelines connection and air purging procedures are just suitable for non-quick coupler model.

### ■ Ordinary pipelines connection

No dust, foreign articles, air or moisture should be allowed to enter the air conditioning system. Careful attention should be paid when pipeline connection for outdoor unit is made. Try to avoid repeated curves as much as possible, otherwise hardening or cracks might be caused to the copper pipes. Suitable wrenches should be used when the pipeline connection is done so as to ensure appropriate torque (refer to following torque Table 1). Excessive torque might damage the joints while too little torque might lead to leakage.

# Instructions for Installation

**Table 1** Torque based upon the wrench to be used

Outer diameter of copper pipe	Tightening torque	Strengthened tightening torque
∅ 6.35(1/4")	160kgf.cm(63kgf.inch)	200kgf.cm(79kgf.inch)
∅ 9.52(3/8")	300kgf.cm(118kgf.inch)	350kgf.cm(138kgf.inch)
∅ 12.7(1/2")	500kgf.cm(197kgf.inch)	550kgf.cm(216kgf.inch)
∅ 15.88(5/8")	750kgf.cm(295kgf.inch)	800kgf.cm(315kgf.inch)
∅ 19.05(3/4")	1200kgf.cm(472kgf.inch)	1400kgf.cm(551kgf.inch)

## ■ Air purging with vacuum pump

1. Check that pipelines connection have been properly connected, remove the charging port cap, and connect the manifold gauge and the vacuum pump to the charging valve by service hoses as shown Fig.6.

2. Open the valve of the low pressure side of manifold gauge, then, run the vacuum pump. Vacuum the indoor unit and the connecting pipes until the pressure in them lowers to below 1.5mmHG (The operation time for vacuuming is about 10 minutes). When the desired vacuum is reached, close the valve of the low pressure of the manifold and stop the vacuum pump.

3. Disconnect the service hoses and fit the cap to the charging valve.

4. Remove the blank caps, and fully open the spindles of the 2-way and 3-ways valves with a service valve wrench.

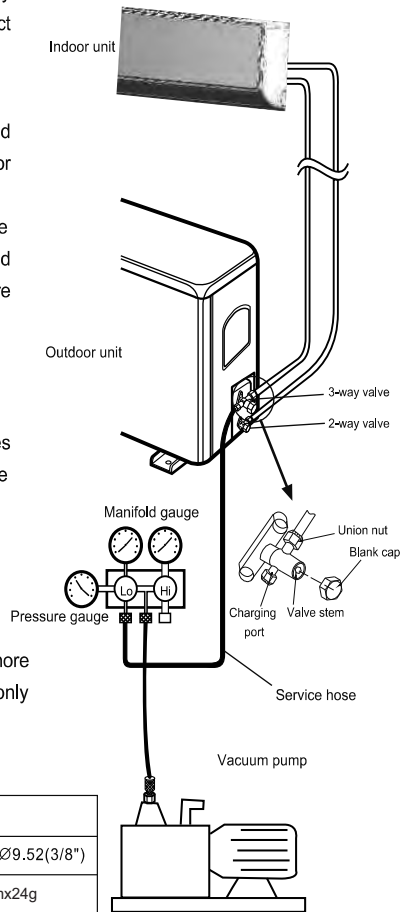
5. Tighten the blank caps of the 2-way and 3-ways valves, applying the above torque Table 1.

## ■ Adding refrigerant

Refrigerant must be added if the piping measures more than 5 metres (16'5") in length. This operation can only be performed by a professional technician, for the additional amount, see the table 2 below.

**Table 2**

Additional refrigerant amount	
Liquid pipe diameter ∅6.35(1/4")	Liquid pipe diameter: ∅9.52(3/8")
(piping length-5)m x 12g (for R32)	(piping length-5)m x 24g (for R32)



# Instructions for Installation

## ■ Gas leakage inspection

After the pipeline connection is done, use a leakage inspection device or soap suds to carefully check if there is any leakage at the joints. This is an important step to ensure the quality of installation. Once a leakage is detected, proper treatment should be taken immediately.

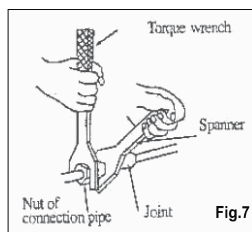
Applicable for coupler series model.

## 【 Pipelines connection for Split type quick coupler model 】

● If you purchase the machine for split type quick coupler model, please adopt the following pipelines connection procedures:

1. Remove the dust caps from the indoor and outdoor units, and the connecting pipe.

2. Align the joint counter of connecting pipe with the proper indoor and outdoor joint conic surfaces, tighten the connecting nut manually. Then, make it secure with a wrench as shown Fig.7 ,applying to above torque Table 1.



3. Remove the two valve core caps from the outdoor unit.

4. Turn on the high and low pressure valve cores with an socket wrench, then tighten the two valve core caps of the outdoor unit (Fig.8).

5. Finally ,wrap the hot insulating cotton around the joints of indoor and outdoor units.

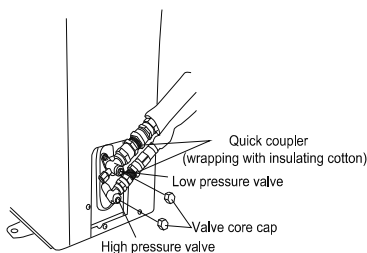


Fig.8

## ● Notes on installation of quick coupler:

1. Connecting pipe bending minimum radius parameters (Table 3)

2. Quick coupler assembly and disassembly limit: the assembly and disassembly times are inadvisably more than 7.

Table 3 Minimum bending radius

Normal diameter(mm)	Minimum bending radius(mm)	cooling capacity
DN8(5/16")	80(3")	2100~2300W (7000~8000BTU)
DN10-12 (1/2")	100(4")	2500~5100W (9000~18000BTU)
DN14-16 (5/8")	150(6")	6100~7000W (22000~24000BTU)



# Instructions for Installation

## 【Is the unit installed correctly?】

### ■ Suitable Installation Position

● Isn't there anything which prevents ventilation or obstructs operation in front of the indoor unit ?  
Do not install the unit following place .

- Inflammable gases may leak .
- Oil splashes a lot .
- In case where the unit is used in such places as poisonous or sultry gases are generated or seaside district exposed to sea breezes corrosion may cause malfunction . Consult with your distributor .
- Air conditioner body and remote controller must be 1mtrs. (39-3/4") or more away from a TV or a radio. Drain the dehumidified water from the indoor unit to a place which drains well.

### ■ Pay attention to operation noise

● When installing the unit , choose a place which can stand the weight of the unit well and does not increase the operation noise or vibration . Especially where there is a possibility that vibration be transmitted to the house , fix the unit by inserting attached vibration -proof pads between the unit and fittings .

- Choose the place where hot air and operation noise from the outlet of the outdoor unit do not annoy the neighborhood .
- Things left near the outlet and inlet of the outdoor unit cause malfunction or increased operation noise . Do not leave obstacles near the outlet and inlet .
- If irregular sound is heard during operation , consult with your distributor .

### ■ Inspection and Maintenance

● According to the service conditions and operating environment , the inside of the air conditioner will become dirty after several seasons (3 to 5years ) of service , resulting in decreased operating performance .Inspection and maintenance are recommended in addition to usual cleaning (The air conditioner can be used for a longer period and without anxiety .)

- As to inspection and maintenance , consult your dealer or any one of business offices of dealing companies .(Service charge is required in this case .)
- We recommend to perform inspection and maintenance during an off seasons.

# Instructions for Installation

## 【Connection of power cable】

- 1.Remove the drawer of the outdoor unit.
- 2.**Non-quick coupler**:connect the indoor power and control wires with the matched outdoor wires in accordance with the electric schematic diagram and make sure that the connection is firmly done(Fig.15.)
- 3.Optional steps:In some cooling and heating models,you should connect the indoor wire connector with outdoor probe wire connector for defrosting.

Fig.15

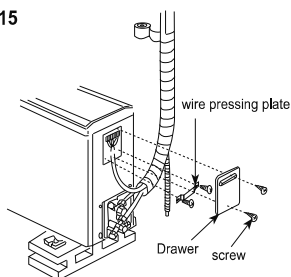
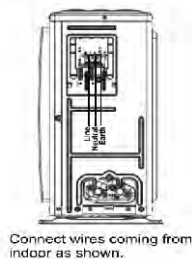
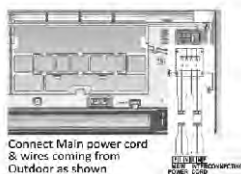


Fig.14



Note:Do not connect the wires in a wrong way,otherwise electric malfunctions will be caused and even damages to the units will occur.The appliance shall be installed in accordance with national wiring regulation.If the supply cord is damaged,it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.The plug shall be accessible after installing the appliance.If the model have not plug that a switch which have a contact separation of at least 3 mm in all poles shall be added in fixed wiring.

## 【Finishing touches】

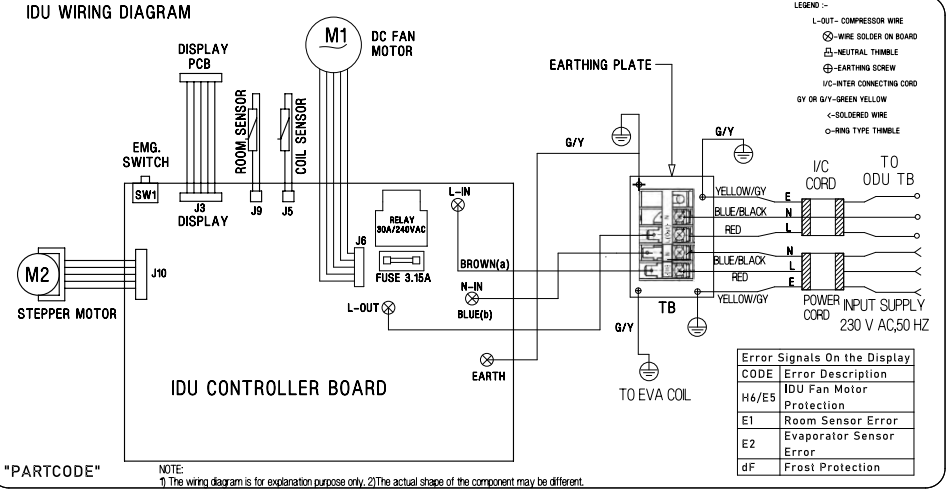
- wrap the pipelines tightly with ethylene tapes.
- Fix the wrapped pipelines on the exterior wall with clamps.
- Fill in the gaps left over by the pipeline hole and wall hole to prevent rain-water from entering.

## 【Test running】

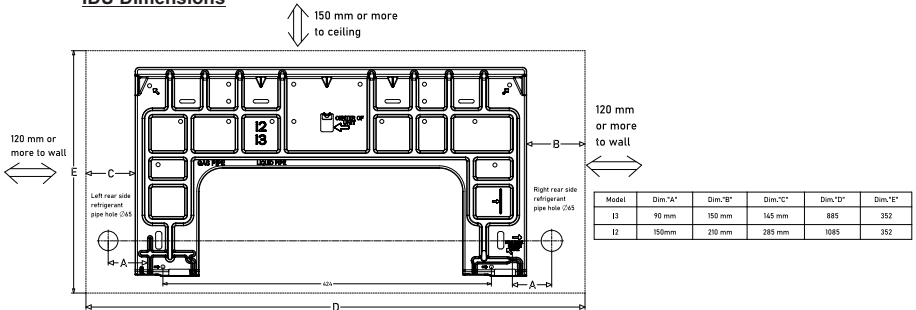
- Connect to the power source,check if the function selection keys on the remote controller are working properly.
- Check if the room temperature adjustments and timer settings are working properly.
- Check if the drain is smooth.
- Check if there is any abnormal noise or vibration during operation.
- Check if there is leakage of refrigerant.
- In Order to get the Rated Capacity, Follow the Steps :
  - \* **Swing Angle** : Default Swing Angle
  - \* **Fan Speed** : Turbo Speed

# Instructions for Installation

## IDU WIRING DIAGRAM



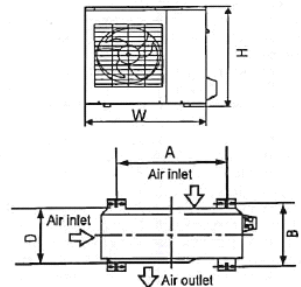
## IDU Dimensions



## Settlement of outdoor unit






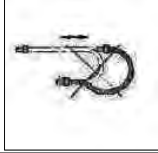




- Anchor the outdoor unit with a bolt and nut 10 or 8 tightly and horizontally on a concrete or rigid mount.  
**NOTE:** The outdoor unit you purchase may be like one of the following. Install the outdoor unit according to the dimension as indicated in the table below:

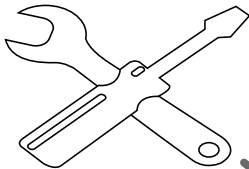
Outdoor unit dimension mm (WxHxD)	Mounting dimensions	
	A(mm)	B(mm)
780x540x250	549	276
760x590x285	530	290
845x700x320	560	335
780x560x264	513	260
907x691x358	600	365



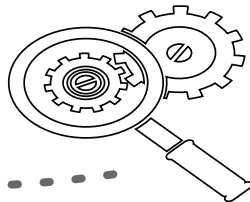
# Instructions for Installation

## Installation Guide

<p>To keep the allowed bending radius, please make the packed soft pipes vertical for expanding.</p>			<p>Please do not expand only one side of the packed soft pipes.</p>
<p>Please make use of semicircle pulley to keep the allowed bending radius.</p>			<p>Extremely bending could damage the pipes.</p>
<p>Please use twisting wheel to avoid improper bending.</p>			<p>Over length soft pipes will lead to irregular bending.</p>
<p>Please use rigid elbow to keep the bending radius while soft pipes operating.</p>			<p>Undersize bending will damage the soft pipe.</p>
<p>Please Keep the minimum bending radius while installing.</p>			<p>Short soft pipes will have them bending undersize, it's not allowed.</p>



Caution: Risk of fire  
(for R32 refrigerant only)



# Information Servicing

## (Required for the units adopt R32 Refrigerant only)

### 1. Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

### 2. Work procedure

Works shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

### 3. General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the work space shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

### 4. Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. no sparking, adequately sealed or intrinsically safe.

### 5. Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry power or CO<sub>2</sub> fire extinguisher adjacent to the charging area.

### 6. No ignition sources

No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "NO SMOKING" signs shall be displayed.

### 7. Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

### 8. Checks to the refrigeration equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance. The following checks shall be applied to installations using flammable refrigerants:

- the charge size is in accordance with the room size within which the refrigerant containing parts are installed;
- the ventilation machinery and outlets are operating adequately and are not obstructed;
- if an indirect refrigerating circuit is being used, the secondary circuits shall be checked for the presence of refrigerant; marking to the equipment continues to be visible and legible.
- marking and signs that are illegible shall be corrected;
- refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless
- the components are constructed of materials which are inherently resistant to being
- corroded or are suitably protected against being so corroded.

## 9. Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, and adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

### Initial safety checks shall include:

- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking
- that there no live electrical components and wiring are exposed while charging, recovering or purging the system;
- that there is continuity of earth bonding.

## 10. Repairs to sealed components

10.1 During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

10.2 Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

**NOTE: The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.**

### **11. Repair to intrinsically safe components**

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use. Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating. Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

### **12. Cabling**

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

### **13. Detection of flammable refrigerants**

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

### **14. Leak detection methods**

The following leak detection methods are deemed acceptable for systems containing flammable refrigerants. Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25% maximum) is confirmed. Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

If a leak is suspected, all naked flames shall be removed or extinguished. If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

### **15. Removal and evacuation**

When breaking into the refrigerant circuit to make repairs or for any other purpose conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to:

- remove refrigerant;
- purge the circuit with inert gas;
- evacuate;
- purge again with inert gas;
- open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. The system shall be flushed with OFN to render the unit safe. This process may need to be repeated several times. Compressed air or oxygen shall not be used for this task.

Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system.

When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.

Ensure that the outlet for the vacuum pump is not closed to any ignition sources and there is ventilation available.

## **16. Charging procedures**

In addition to conventional charging procedures, the following requirements shall be followed:

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
- Cylinders shall be kept upright.
- Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete(if not already).
- Extreme care shall be taken not to overfill the refrigeration system.
- Prior to recharging the system it shall be pressure tested with OFN. The system shall be leak tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

## **17. Decommissioning**

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken.

In case analysis is required prior to re-use of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

- a) Become familiar with the equipment and its operation.
- b) Isolate system electrically
- c) Before attempting the procedure ensure that:
  - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
  - all personal protective equipment is available and being used correctly;
  - the recovery process is supervised at all times by a competent person;
  - recovery equipment and cylinders conform to the appropriate standards.
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with manufacturer's instructions.
- h) Do not overfill cylinders. (No more than 80% volume liquid charge).
- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.



## **18. Labelling**

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

## **19. Recovery**

- When removing refrigerant from a system, either for service or decommissioning, it is recommended good practice that all refrigerants are removed safely.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct numbers of cylinders for holding the total system charge are available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order.
- Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants. In addition, a set of calibrated weighing scales shall be available
- and in good working order.
- Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.
- If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to retruning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

## **20. Transportation, marking and storage for units**

1. Transport of equipment containing flammable refrigerants  
Compliance with the transport regulations
2. Marking of equipment using signs  
Compliance with local regulations
3. Disposal of equipment using flammable refrigerants  
Compliance with national regulations
4. Storage of equipment/appliances  
The storage of equipment should be in accordance with the manufacturer's instructions.
5. Storage of packed (unsold) equipment  
Storage package protection should be constructed such that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge.  
The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.

## E-WASTE MANAGEMENT GUIDELINES



### E-WASTE MANAGEMENT GUIDELINES (PERTAINING TO THE E-WASTE RULES)

#### PROPER HANDLING AND/OR RECYCLING OF THE AIR CONDITIONER

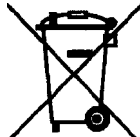
Under the E-Waste (Management & Handling) Rules, 2011 (hereafter referred to as the "E-Waste Rules"), it is incumbent for all consumers, including the purchaser of this air-conditioner, to properly recycle and dispose of all electrical and electronic equipment through authorized recyclers.

E-Waste has been defined as "waste electrical and electronic equipment, whole or in part or rejects from their manufacturing and repair process, which are intended to be discarded".

E-Waste contains various hazardous materials like lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and polybrominateddiphenyls ethers. Hence, improper handling and disposal of e-waste releases these hazardous material in the environment causing pollution, contamination of soil and water and various health hazards. Though the product purchased by you is ROHS compliant and does not contain any hazardous material above the prescribed limit under the E-Waste Rules, it is imperative that the product should be handled with utmost caution and as per the guidelines mentioned in this manual including the following Do's and Don'ts –

Do's	Don'ts
Hand over the E-Waste to Authorised Recycler.	Never sell the e-waste to any unauthorized agencies, scrap dealer/kabadiwalahs.
E-Waste should be segregated from household and other wastes.	Never throw E-Waste in bins as part of household waste.
Keep the product in isolated area, after it becomes non-functional/un-repairable so as to prevent its accidental breakage.	Never keep E-Waste in open and exposed area, accessible by all.
The product should be opened only by authorised service personnel.	The product should not be opened by the user himself/herself. Dismantling of e-waste by the user can be dangerous

The following marking/symbol on the product or carton indicates that the product and its accessories/parts (e.g. remote controller, batteries, spare parts etc.) should not be disposed of with other household waste at the end of their working life. Please separate these items from other types of waste and recycle them responsibly for conservation of the environment and collective well-being.



#### E-WASTE RECYCLING PROGRAM

We have tied up with government approved e-waste recycler for facilitating the collection of e-waste from our channel partners and customers for recycling. You are simply required to call our toll free number **1800 1033 333** and register your request for collection of e-waste. Once your request is received, the representatives of the authorized recycler would collect the e-waste from your house/premises after paying the value of the same to you. For more details and information on our E-Waste Recycling Program kindly visit our website [www.carrieridea.com](http://www.carrieridea.com).

## **ANNUAL MAINTENANCE CONTRACT**

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### **ANNUAL MAINTENANCE CONTRACT**

Our air conditioners contain various components and inputs that are technical in nature and it is important that any repair or replacement of any of the components of the air conditioners is done only by the personnel authorized by Carrier.

We at Carrier Midea India Pvt. Ltd. believe in providing our valued customers the best in engineered technology & quality performance for extreme Indian conditions. Striving to keep our commitments and to ensure best product performance, We offer to you exciting “ Happy Homes Annual Maintenance plans” to cover the service support for your products.

We recommend that you avail Happy Homes annual maintenance services from us in order to optimize the performance and the life span of your conditioners and also to ensure their safe and proper handling.

You can contact to us on our call center number 1800 1033 333 to register your request for Annual Maintenance services or you can write to us on [carriercare@carriermidea.com](mailto:carriercare@carriermidea.com)

CARRIER MIDEA INDIA PRIVATE LIMITED (hereinafter referred to as the "Company"), hereby warrants to the original domestic purchaser (here in after called the "Purchaser") of the air-conditioning unit (as detailed within the Warranty Registration Card and here in after referred to as the "said unit") that the said unit is free from defects in materials and workmanship under normal use and service and under specified voltage conditions, and that during a period of twelve (12) months commencing from the date of invoice, as provided in the Warranty Card, the Company undertakes to repair or to replace any part or parts of the said unit (including the compressor, condenser and evaporator) free of charge which proves to be defective in materials or workmanship at its sole discretion.

### ADDITIONAL WARRANTY ON COMPRESSOR

The additional warranty on Compressor will be continuous even after the expiry off one year period from date of purchase (4 year\* for Normal Compressor & 9 year\*\* for Inverter Compressor (selected Models) shall be applicable after the expiry of one year period from the date of purchase). This additional warranty covers compressor only. During the additional warranty period, it does not cover any parts such as condenser coil, evaporator coil, capillary, suction line electronics parts, etc., the Company shall continue to warranty the compressor to be free from defects in material and workmanship under normal use and service and under specified voltage conditions. The Company shall repair or replace without cost to the original purchaser, any part or portion of the compressor, which shall be returned to us, transportation charges prepaid and which on inspection shall be shown to be thus defective. Expendable items like refrigerant gas, overload, oil, dryer, strainer and others are excluded from this warranty and are on chargeable basis. This warranty is subject to use of air-conditioner with input voltage of 230 V +/-10%. We recommend use of approved make of voltage stabilizer with output voltage of 230 V +/-10%. The terms and conditions as set out below shall form the basis of this warranty:

**\*For Normal Compressor (4 Year Warranty)**

**\*\* For Inverter Compressor (9 Year Warranty)**

1. The warranty shall be valid and that the Purchaser can have the benefit of this warranty, if and only if the Purchaser has duly intimated the fault to the Company or its authorized dealer if the and that the unit is in the possession of and is used by the Purchaser.
2. At the time of repair/service, the Purchaser is mandatorily required to show the original invoice to the authorized service personnel of the Company. If the purchaser fails to do so, then all repair work and service shall be carried out on a chargeable basis;
3. This warranty shall be valid only for the Warranty period irrespective of whether the said Unit has been in use or not for any reason whatsoever.
4. The Warranty will shall be valid only for the said period of twelve months as specified above, irrespective of whether the said unit has been in use or not for any reason whatsoever, or the unit is moved from one location to another. The warranty period specified above shall include time taken for repairs, replacements, testing of unit, technical breakdowns, transit time etc. This warranty shall automatically expire by efflux of time on completion of the period indicated herein above and no notice of such expiry will be given by the Company.
5. This warranty shall stand automatically terminated in the event of the said unit being serviced, repaired, installed, de-installed, re-installed or otherwise attended to by and person or organization or agency or by the said purchaser himself (by whatever name called), other than the authorized representative / Dealer of the the Company.
6. Parts of the units replaced or repaired under the terms of this warranty are warranted only for the remaining period of the original warranty period.

## Warranty Terms and Conditions

7. For attending any service call under this warranty beyond the Municipal limits of the locality in which the authorized representative/dealer is situated (outstation locations), all to and fro traveling and other incidental expenses as prevailing from time to time incurred in connection with the visit of the service personnel, technicians etc., shall be borne by the Purchaser and shall be payable in advance.  
Additionally, all expenses incurred by the authorized representative/dealer in collecting the unit or any part thereof from such outstation locations and its return to the original location shall be borne exclusively by the Purchaser.
8. Any loss of refrigerant caused due to sabotage, improper handling or treatment, carelessness, accident, fire, flood, earthquake or any act of God, or any corrosive action on the original refrigerant pipes, fittings, valves etc. for whatever reason, shall not be covered under this warranty.
9. In the event of any change in the location of the unit, during the warranty period, this warranty shall become null and void unless the fact of the proposed change is communicated in writing to the authorized dealer at least seven (7) days prior to the said change. On receipt of such information, the authorized dealer or any of its counterparts shall arrange for de-installation of the said unit on a chargeable basis. However, it is expressly stated that in the event of any damage occurring to the unit or to any of its parts during the course of its transit by the Purchaser, repair or replacement of the said unit or any part thereof so damaged shall not be covered by this warranty.
10. While the Authorized Dealers/Company will make every effort to carry out repairs/replacement of parts under this warranty as soon as the complaint is received, it is expressly made clear that the Authorized Dealer/Company shall not be liable to do so within any specified period of time.
11. It shall be absolute discretion of the Company to (a) effect the repairs or replacement of parts whether at the site of installation or at any service center; and (b) have the job attended to either by the Company's service personnel or of its authorized dealers.
12. This warranty is in the nature of and for the purposes as set forth herein above and in particular, the Company shall not in any event be liable for any direct, indirect, incidental or consequential loss or damages to either the said purchaser and/or his property or any other third party in course of attending to any complaint.
13. Limitation of Warranty: Company shall not be responsible for providing any warranty under the following situations:
  - i. any damage caused by accident, mishandling, tampering with installation, or negligent in following instructions of the user manual issued by the Company.
  - ii. any damage caused by power surges and dips, improper electrical circuit outside the unit or by any defective electrical supply.
  - iii. at any time, during the currency of the warranty period, if any part of the unit is tampered with, altered, repaired or serviced by any unauthorized person, not being the authorized representative of the Company or its authorized dealers.
  - iv. If the said unit or any parts thereof is damaged by insects, rats, birds, squirrels, pests or any other external factors like fire, flood, earthquake, lighting and/or any other act of God/natural calamities;

## Warranty Terms and Conditions

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- v. Any defect due to substitution of original components with non-genuine components;
  - vi. Damage to the said Unit due to use of any ancillary equipment which is not authenticated or recommended by the Company;
  - vii. The serial number on the unit or any part thereof is damaged, defaced, altered, obliterated, or tampered with or removed for any reason whatsoever.
  - viii. The unit is unauthorizedly removed from its original place or installation or reinstallation.
  - ix. Condenser and Evaporator is found defective if the air conditioner is installed near the muddy sewages because toxic gases are harmful for the AC.
  - x. Damage to the product due to operation in an abnormally corrosive alkaline / acidic atmosphere.
14. None of the employees and/or Authorized dealers of the Company have the authority whatsoever to vary the terms and conditions of this warranty.
15. This warranty shall be deemed to have been issued at Gurgaon in the State of Haryana, and Courts at Gurgaon shall have exclusive jurisdiction on matters covered by or following from this warranty, and the purchaser alone shall have cause of action arising out of the transaction.

# WARRANTY CARD

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## WARRANTY

Carrier Midea India Private Limited

Carrier Copy

Model :

NAME OF CUSTOMER :

ADDRESS :

Sr. No. of the Unit :

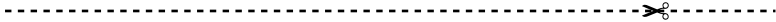
Sr. No. of the Compressor :

Invoice No. :

Date of Purchase :

Name & Address of the Dealer :

Signature of the Dealer with seal :



## WARRANTY

Carrier Midea India Private Limited

Customer Copy

Model :

NAME OF CUSTOMER :

ADDRESS :

Sr. No. of the Unit :

Sr. No. of the Compressor :

Invoice No. :

Date of Purchase :

Name & Address of the Dealer :

Signature of the Dealer with seal :



# WARRANTY CARD

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## PRODUCT WARRANTY CERTIFICATE

CARRIER MIDEA INDIA PRIVATE LIMITED (company) warrants this Room air conditioner to the original purchaser to be free from defects in material and workmanship under normal use and service and under specified voltage conditions and we shall, within one year from the date hereof, repair or replace any defect without cost to the original purchaser, a part or portion thereof which shall be returned to us, transportation charges prepaid, and which on inspection by the Company shall be shown to be thus defective. Plastic parts beyond the date of delivery, fuses, air filters, refrigerants, all and other expandable items are excluded from this warranty.

### **ADDITIONAL COMPRESSOR WARRANTY**

For Additional warranty on Compressor (4 year for Normal Compressor & 9 year for Inverter Compressor), following the expiration of the entire unit warranty, the Company shall continue to warrant the compressor only to be free from defects in material and workmanship under normal use and service and under specified voltage conditions. The Company shall repair or replace without cost to the original purchaser compressor, any part or portion of the compressor, which shall be returned to the Company, transportation charges prepaid and which on inspection shall be shown to be thus defective. Expendable items like refrigerant gas (which is required to be filled in again mandatorily at the time of repairing or replacing the compressor), overload, oil, dryer, strainer and others are excluded from this warranty and are on chargeable basis.

These warranties, however, shall not apply if the room air-conditioner has been installed in a manner affecting the efficiency or performance, or if the room air-conditioner has been tampered with, altered or in any way, repaired, serviced or worked on by anybody other than the Company's own technicians/staff or its authorized representative. This warranty shall also NOT apply to the compressor which has the serial numbers altered, defected or removed. The company shall not be liable for any injury, loss, or damage (direct, indirect, or consequential) of whatsoever arising out of the use or inability to use the product.



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For more details please contact Carrier Midea India Pvt. Ltd.:

**REGISTERED OFFICE :** 1st Floor, Pearl Global Tower, Plot No. 51, Institutional Area, Sector 32, Gurgaon - 122001, Haryana.

**SALES OFFICES:** Gurgaon: 0124-6144300, Ghaziabad: 0120-4183260, Chandigarh: 0172-5007548-50, Jaipur: 0141-4109080  
Mumbai: 022-26528989, 42188800, Pune: 020-41051000, Goa: 0632-2447028, Ahmedabad: 079-40267777, Kolkata: 033-40201300, Chennai: 044-42222888, Bangalore: 080-43442000, Patna: 0612-2323517, Hyderabad: 040-45462888, Cochin: 0484-4029001, Lucknow: 0522-4158710,  
Indore: 0731-4294700, Pondicherry: 0413-2226676, Coimbatore: 0422-4385400, Guwahati: 0361-2666077, Bhubaneshwar: 0674-2585893,  
Nagpur: 0712-6453790, Ranchi: 0651-6452488, 2330095, Raipur: 0771-4013245.

Visit us at : [www.carriermideaindia.com](http://www.carriermideaindia.com)

The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details.

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