



## **Remote Manual**

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## INSTRUCTIONS OF USING WIRELESS REMOTE CONTROL

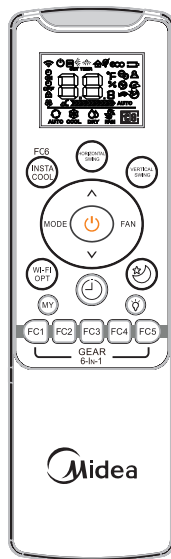
- The remote control uses two alkaline batteries (1.5 Volts).
- Do not use old batteries or batteries of different types, as this may cause the controller malfunction.
- If you do not use the remote control for more than two months, please remove the batteries. Other wise battery leakage may damage the remote control.
- The average battery life during normal use is approximately half a year. Replace the batteries when there is no receiving beep coming from the indoor unit or transmission indicator ▲ on the remote control fails to light.
- The maximum operating distance for the remote control is approximately 8 meters.
- The transmitter of remote control must be directed toward the receiver of indoor unit when pressing the buttons of the desired functions. An acoustical acknowledgement sound (beep) will indicate that signal has been received.
- Avoid obstacles obstructions such as curtains, doors or other materials between the remote control and the receiver of indoor unit to avoid blocking the signals from the remote control to the indoor unit.
- Avoid direct sunlight on the receiver of indoor unit, which may interfere with good signal reception and the air conditioner may not work properly. Draw the curtains to avoid direct sunlight.
- Keep the remote control away from water. Do not let the remote control fall down.
- Never use objects with sharp point to press the button on the remote control.
- Prevent any liquid from falling into the remote control.
- If other electric applications react to the remote control, move these applications.
- Do not dispose of batteries as un stored municipal waste. Refer to local laws for proper disposal of batteries.



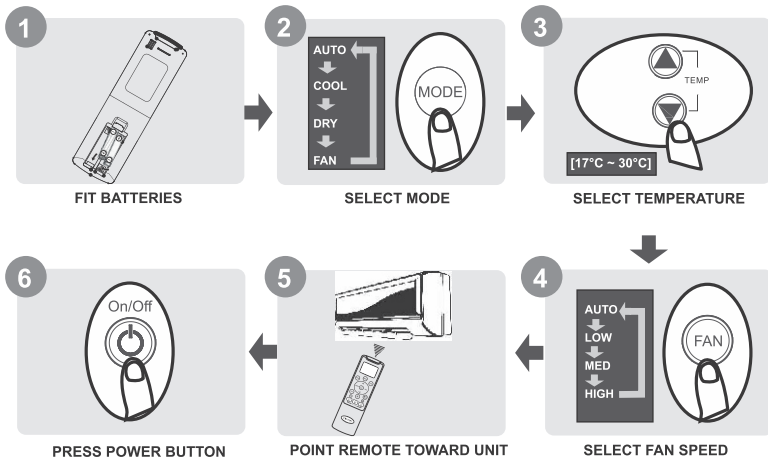
### Correct Disposal of Battery

- This marking printed in the batteries attached to your Air Conditioning product is information for end-users according to the EU directive 2013/56/EU article 20 annex II.
- Batteries, at their end-of-life, should be disposed of separately from general household waste. Please, dispose of batteries correctly at your local community waste collection or the recycling center.

# 1. QUICK START



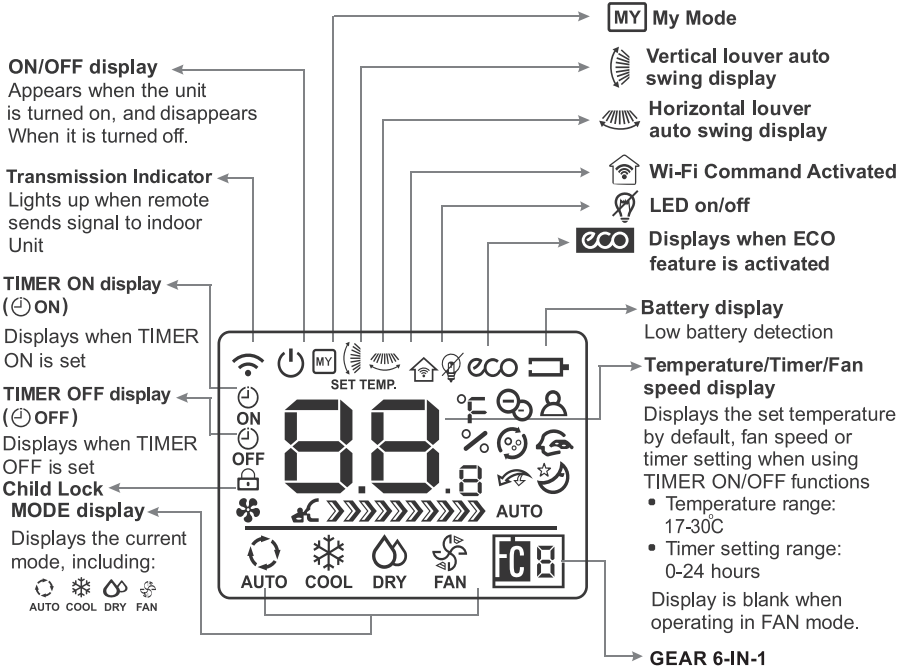
\* Remote is model dependent.



## 2. DISPLAY & BUTTONS

### 2.1 Display

Information are displayed when the remote controller is powered up.



**PLASMA**

Not available for this unit

**Follow me feature display**

**Sleep mode display**

**Displays when select Self clean feature by OPT button**

**Model Dependent and is available in selected models only.**

### Fan speed display

Displays selected fan speed:

- LOW
- MED
- HIGH
- AUTO

AUTO

-----  
 This fan speed can not be adjusted in AUTO or DRY mode.

### Note:

All indicators shown in the above figure are for the purpose of clear presentation. But during the actual operation only the relative functional signs are shown on the display window.

## 2.2 Buttons for 6 in 1 remote

### 1. ON/OFF

Press to start operation.  
Press again to stop.

### 2. HORIZONTAL SWING \*

Press to set horizontal lower position.

### 3. VERTICAL SWING

Press to set vertical lower position.

### 4. INSTA COOL

Press to activate the INSTA COOL Function. (Model dependent)  
At Insta Cool Fan speed is High , So Air cutting Noise will be High

### 5. TEMPERATURE UP

Increases temperature in 1°C increments.  
Max. Temp. is 30°C.

### 6. FAN SPEED

Press to select fan speed in sequence low, medium, high & auto.  
To enjoy cool Breeze without much air cutting noise Fan Speed must be low.

### 7. MODE

Press the mode button to switch the mode In turn.

### 8. TEMPERATURE DOWN

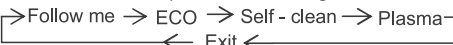
Decreases temperature in 1°C decrements.  
Min. Temp. is 17°C.

### 9. WIFI OPT (OPTIONS)

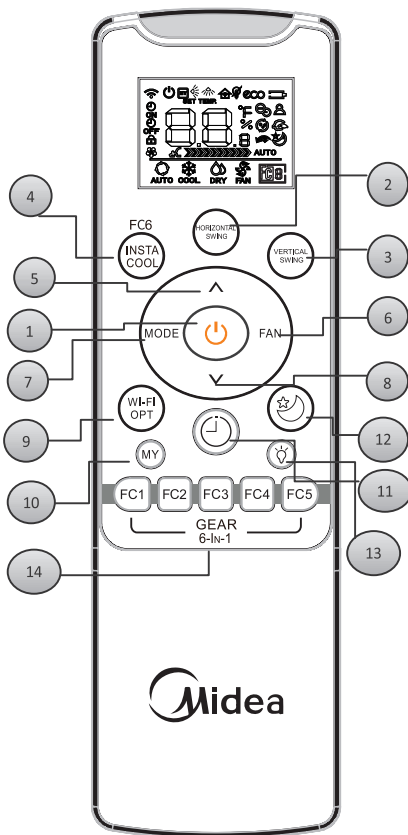
- Press the button for 5 second to enable the Wi-Fi functionality. Double beep sound will come from the air conditioner and display will show SA for short duration and then will return to the set temperature. The remote display will also show Wi-Fi (📶) icon. For further steps kindly refer to the Wi-Fi manual.

- Press this button to select the air conditioner

Function in a sequence of following:



Press the **OPT** Button to select the desired function, the Selected symbol will display on your remote screen for 2 sec, If within 2 sec, again not pressed the same OPT key, then The function will be locked.



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**10. MY (MY MODE)**

Press to memorize or resume your favorite pre-settings.

**11. TIMER**

Press to set either On Timer or Off Timer at a time.

**12. SLEEP**







Press to enter Sleep Mode.

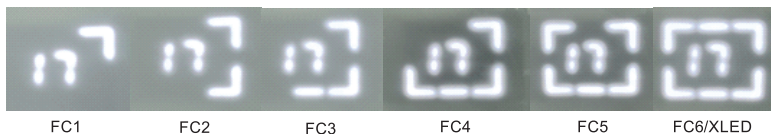
**13. LED/KW\***

Press to turn on/off the LED display and to display the instant KW value.

**14. GEAR 6-IN-1 FUNCTION \***

Press below available options to enter the desired energy Efficient mode:

- A) Press this  button to enter upto 60% energy saving mode and upto 40% cooling mode.
- B) Press this  button to enter upto 40% energy saving mode and upto 60% cooling mode.
- C) Press this  button to enter upto 20% energy saving mode and upto 80% cooling mode.
- D) Press this  button to enter upto 100% cooling/power mode.
- E) Press this  button to enter upto 110% cooling/power mode.
- F) Press this  button to enter upto 120% cooling/power mode.



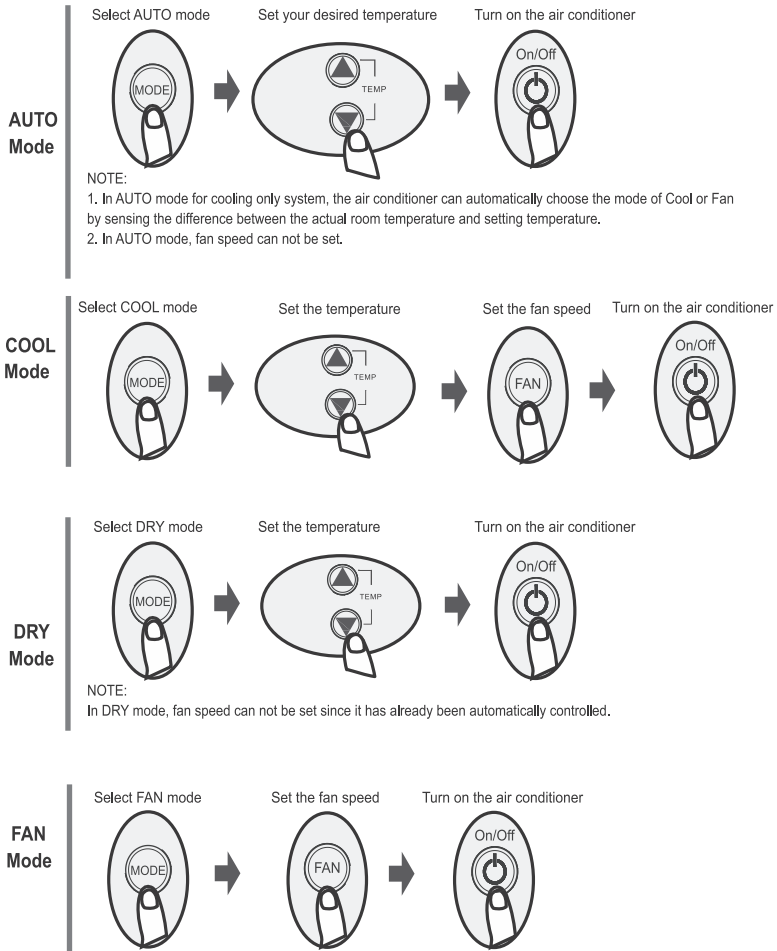
**NOTE:**

- 1. Above illustration shows all the features of Remote . For actual model, few features and Remote buttons may not be available.
- 2. Buttons design might be slightly different from the actual one.
- 3. For each function activation and deactivation, please refer to the detailed Description available from next page onwards.
- 4. GEAR 6-IN-1 function is optional feature and is available in selected Inverter Air Conditioner only. If your Air Conditioner doesn't have this function then your remote controller will not have this function.
- 5. \* is application for selected Models only.
- 6. Dynamic (V2) GEAR function will work only if LED is ON by pressing LED key (Feature may change basis Model).
- 7. This above display light function is available in selective Models.

## 3. HOW TO USE BASIC FUNCTIONS

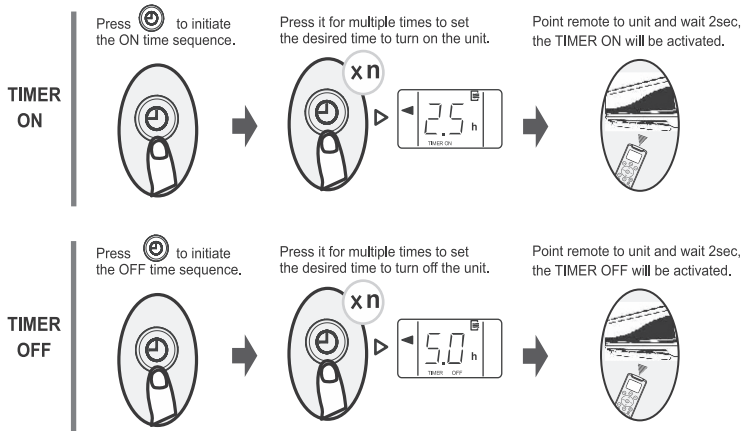
### 3.1 Basic Operations

**! ATTENTION** Before operation, please ensure the unit is plugged in and power is available.



## 3.2 Timer Functions

**TIMER ON/OFF - Set the time after which the unit will automatically turn on/off.**



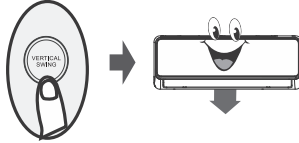
**NOTE:**

1. When setting the TIMER ON or TIMER OFF, the time will increase by 30 minutes increments with each press, up to 10 hours. After 10 hours and up to 24, it will increase in 1 hour increments. (For example, press 5 times to get 2.5h, and press 21 times to get 11h.) The timer will revert to 0.0 after 24.
2. Cancel either function by setting its timer to 0.0h.
3. Both On and Off Timer can not be set at the same time. i.e., If the Air Conditioner is running, then Timer Off function can be set and If the Air Conditioner is Off, then Timer On function can be set.

## 4. HOW TO USE ADVANCED FUNCTIONS

### VERTICAL SWING

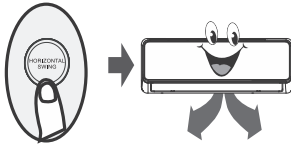
Press VERTICAL SWING button



The Vertical lower swing will work up & down automatically when press vertical swing button for 1st time. Press again Vertical swing button 6 times to set each swing Stepwise 1 to 6.

### HORIZONTAL SWING (OPTIONAL)

Press HORIZONTAL SWING button



The Horizontal lower swing will work Left to Right automatically when press horizontal swing button for 1st time. Press again Horizontal swing to set Left to Right movement. Press again Horizontal swing to set Right to Left movement. Press again Horizontal swing button 6 times to set each swing Stepwise 1 to 6.

### Sleep

Press Sleep button under Cooling mode.



The set temp. will increase (Cooling) By 1°C per hour for the first 2hs. Thereafter it keeps this new temp. for 5hs before switching off.

This Sleep operation saves energy and improves night time comfort by synchronising with the body's metabolism.

### My Mode

Press this button more than 2 seconds



The unit will memorize the current setting mode, Temp., fan).

Press this button



The unit will restore to the setting you made last time.

My mode function enable you to memorize or restore your favorite settings (mode, temperature and fan speed). The default memorized setting is AUTO mode, 26°C and AUTO fan.

## LED

Press LED button



Press this button to turn on and turn off the display on the indoor unit.

\*Press this button (For 5 seconds) to turn ON and OFF the LED strip/light on the Panel of the Indoor unit.

\*Press Led Key one time to enter Silent mode.

\*Dynamic LED function enable if LED is ON.

\*Indicate optional function and available only in selected models.

## KW\*

Press LED button one time will make display OFF and pressing second time will display instant KW value.



Pressing next time will make display OFF and pressing again will show set temp. And this cycle will continue.

## INSTA\* COOL

Press this button

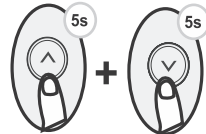


The unit will run at the highest fan speed and lowest temperature at 17°C to reach the rapid comfort.

Press this button to activate INSTA COOL. It enables the unit to reach the set temperature in the shortest time. Press it again to disable it. By pressing the temperature UP/DOWN, FAN and MODE button the INSTA COOL function will be cancelled. Additionally, if you need to select any other function, then first cancel the INSTA COOL function by pressing INSTA COOL button again.

## Lock Mode

Press together  $\wedge$  button and  $\vee$  button at the same time more than 5 seconds to activate Lock Mode function.



Lock symbol displays

Enter lock mode by pressing  $\wedge$  and  $\vee$  button at the same time more than 5 seconds. At lock mode, all buttons will not response except press these two buttons again to disable locking.

## TURBO\*

Press this button



The unit will run at the highest fan speed to reach the rapid comfort.







Press this button to activate Turbo. It enables the unit to reach the set temperature in the shortest time. Press it again to disable it.

Press this button to activate Turbo. It enables the unit to reach the set temperature in the shortest time. Press it again to disable it. The display will show 06, followed by 'ON', when the button is pressed.

\*indicate optional function and not available in all the Models.

## 5. GEAR 6-IN-1 FUNCTION

Press below available options to enter the desired energy Efficient mode:

- A) Press this  button to enter upto 60% energy saving mode and upto 40% cooling mode.
- B) Press this  button to enter upto 40% energy saving mode and upto 60% cooling mode.
- C) Press this  button to enter upto 20% energy saving mode and upto 80% cooling mode.
- D) Press this  button to enter upto 100% cooling/power mode.
- E) Press this  button to enter upto 110% cooling/power mode.
- F) Press this  button to enter upto 120% cooling/power mode.



Press FC1 GEAR 6-IN-1 FUNCTION



Press this button to enter upto 60% energy saving mode and upto 40% cooling mode. The display will show 01 when the button is pressed.



Press FC2 GEAR 6-IN-1 FUNCTION



Press this button to enter upto 40% energy saving mode and upto 60% cooling mode. The display will show 02 when the button is pressed.



Press FC3 GEAR 6-IN-1 FUNCTION



Press this button to enter upto 20% energy saving mode and upto 80% cooling mode. The display will show 03 when the button is pressed.



Press FC4 GEAR 6-IN-1 FUNCTION



Press this button to enter upto 100% cooling/power mode. The display will show 04 when the button is pressed.



Press FC5 GEAR 6-IN-1 FUNCTION



Press this button to enter upto 110% cooling/power mode. The display will show 05 when the button is pressed.



Press FC6 GEAR 6-IN-1 FUNCTION



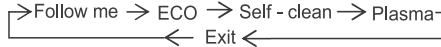
Press this button to enter upto 120% cooling/power mode. The display will show 06, followed by "On", when the button is pressed.

### NOTE:

- This function is only available under COOL mode.
- To cancel the GEAR FC1 to FC5 functions turn off the unit or activate ECO or Self Clean functions.
- To cancel the GEAR FC6 function turn off the unit or activate ECO, SLEEP functions. Additionally by pressing the Temperature UP/DOWN, FAN, Mode and FC6 button again the FC6 function will be canceled.
- Pressing the same GEAR FC1 to FC5 button will cancel the functions.
- If you feel uncomfortable during this function, then cancel this function as described above in note 2 and 3.
- Pressing the Gear (FC1-FC6) KEYS, Dynamic-LED function will be ON and LED will show the capacity Indication as per selection of keys (FC1-FC6).  
(Dynamic GEAR function will work only if LED is ON by pressing LED key).

## 6. Wi-Fi OPT/OPT (OPTIONAL) FUNCTIONS

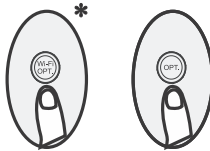
- Press the button for 5 second to enable the Wi-Fi functionality. Double beep sound will come from the air conditioner and display will show SA for short duration and then will return to the set temperature. The remote display will also show Wi-Fi (📶) icon. This function is only available in 6-IN-1 remote.
- Press this button to select the air conditioner  
Function in a sequence of following:



Press the **OPT** button to select the desired Function, the selected symbol will appear  
On the display area, if next option is not selected  
Within 2 secs, then the selected function will be Activated.

Press OPT button(One time) under COOL operating Mode

**OPT.**  
**FOLLOW ME**  
(👤)



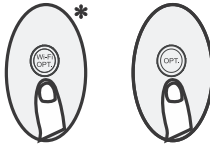
The controller will display the actual temp. at its location and send this signal to indoor unit every 3 minutes

Press this button to activate Follow me. This function can adjust room temperature base on the controller's sensor and make you comfort.

Note: Please put the controller in the location where can ensure the indoor unit can receive the signal.

Press OPT button(Two time) under COOL operating Mode


**OPT.**  
**ECO**  
**\* (eco)**



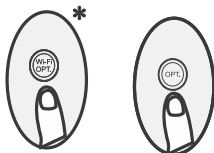
air conditioner will automatically operate at 24°C(75°F), with auto fan speed.

Press this button to enter energy efficient mode (IDU fan will work in silent speed)

- Modifying operating the mode or adjusting the set temperature to less than 24°C(75°F) will stop ECO operation.
- The ECO operation will be stopped automatically after 8 hours. Under ECO operation, the set temperature should be 24°C(75°F) or more, it may result in insufficient cooling. If you feel uncomfortable, just cancel the ECO button as mentioned above.
- ECO Icon May turn off on remote display when lowering temperature using down key, however eco mode remains active in machine range between 24°C -30°C.

**OPT.  
Self Clean**  
()

Press OPT. Button (3 times) under COOL or DRY Mode.



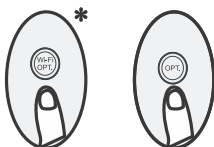
IDU Display will show 'SC' and self cleaning function will start. Self clean function will end from 20-30 minutes.

Under SELF CLEAN mode, the air conditioner will automatically clean and dry the Evaporator and keep it as fresh for the next operation. It is not available under heating or fan mode.

**Note:-** Once it is activated then you have to press the OPT button again to cancel the function, else press ON/OFF button to cancel this function.

**OPT.  
Plasma**  
\*()

Press OPT button(Four time) to select this function.



The ionizer or Plasma Dust collector (Model dependent) is energized.

When the FRESH function is initiated, the Ionizer/Plasma Dust Collector(depending on models) is energized and will help to remove pollen and impurities from the air.

**NOTE:**

- Buttons design is based on typical model and might be slightly different from the actual one you purchased. the actual shape shall prevail.
- All the functions described are accomplished by the unit. If the unit has no this feature, there is no corresponding operation happened when press the relative button on the remote controller.
- When there are wide differences between "Remote controller Illustration" and "USER'S MANUAL" on function description, the description of "USER'S MANUAL" shall prevail.
- \* indicate optional function and not available in all Models.

## 7. COMPRESSOR FREQUENCY SETTING INSTRUCTION

For inverter Models

Capacity Rating	Step 1	Step 2	Step 3	Step 4
	Select set Temperature	Select Mode	Press Insta cool/ Turbo button	Test mode Activate by
100%	17	Cool, High Fan Speed & Compressor Running	Press Insta Cool/Turbo button more than or equal to 6 times frequently within 10 seconds (Beep sound will be heard every time while pressing Insta Cool / Turbo button.)	Display will show C1 (Fan Speed will automatically change to Insta cool/ Turbo Button)
50%	19	Cool, High Fan Speed & Compressor Running	Press Insta Cool/Turbo button more than or equal to 6 times frequently within 10 seconds (Beep sound will be heard every time while pressing Insta Cool/Turbo button.)	Display will show C2 (Fan Speed will automatically change to Insta cool/ Turbo Button)



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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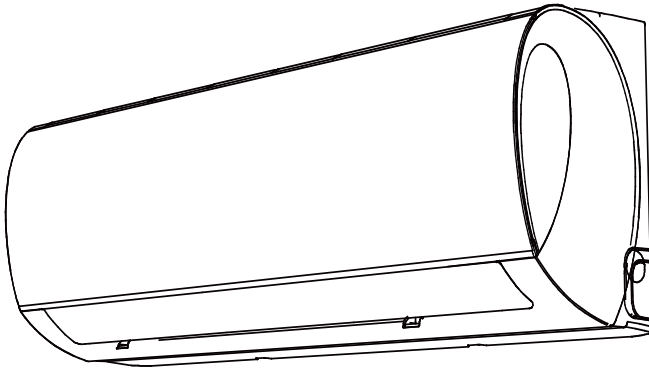
SPLIT-TYPE ROOM AIR CONDITIONER

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# Installation Manual

All Model Numbers



**IMPORTANT NOTE:**



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

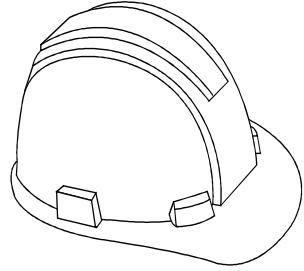


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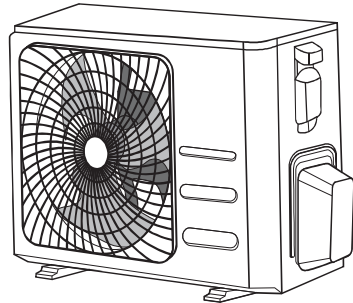
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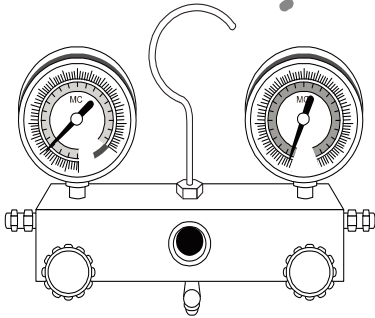
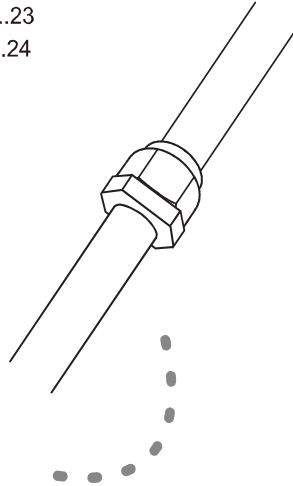


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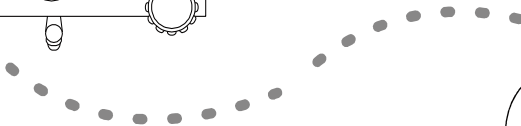


**Caution:** Risk of fire  
(for R32/R290 refrigerant only )



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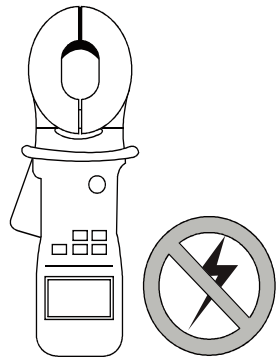
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# Safety Precautions

1

## Read Safety Precautions Before Installation

Incorrect installation due to ignoring instructions can cause serious damage or injury. The seriousness of potential damage or injuries is classified as either a **WARNING** or **CAUTION**.



**WARNING**

This symbol indicates that ignoring instructions may cause death or serious injury.



**CAUTION**

This symbol indicates that ignoring instructions may cause moderate injury to your person, or damage to your unit or other property.



This symbol indicates that you must never perform the action indicated.



## **WARNING**

- **Do not** modify the length of the power supply cord or use an extension cord to power the unit. **Do not** share the electrical outlet with other appliances. Improper or insufficient power supply can cause fire or electrical shock.
  - When connecting refrigerant piping, **do not** let substances or gases other than the specified refrigerant enter the unit. The presence of other gases or substances will lower the unit's capacity and can cause abnormally high pressure in the refrigeration cycle. This can cause explosion and injury.
  - **Do not** allow children to play with the air conditioner. Children must be supervised around the unit at all times.
1. Installation must be performed by an authorized dealer or specialist. Defective installation can cause water leakage, electrical shock, or fire.
  2. Installation must be performed according to the installation instructions. Improper installation can cause water leakage, electrical shock, or fire.  
In North America, installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.)
  3. Contact an authorized service technician for repair or maintenance of this unit.
  4. Only use the included accessories, parts, and specified parts for installation. Using non-standard parts can cause water leakage, electrical shock, fire, and can cause the unit to fail.
  5. Install the unit in a firm location that can support the unit's weight. If the chosen location cannot support the unit's weight, or the installation is not done properly, the unit may drop and cause serious injury and damage.
  6. Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
  7. The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater)
  8. Do not pierce or burn.
  9. Appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
  10. Be aware that refrigerants may not contain an odour.

**NOTE: Clause 7 to 10 are required for the units adopt R32/R290 Refrigerant.**



## WARNING

11. For all electrical work, follow all local and national wiring standards, regulations, and the Installation Manual. You must use an independent circuit and single outlet to supply power. Do not connect other appliances to the same outlet. Insufficient electrical capacity or defects in electrical work can cause electrical shock or fire.
12. For all electrical work, use the specified cables. Connect cables tightly, and clamp them securely to prevent external forces from damaging the terminal. Improper electrical connections can overheat and cause fire, and may also cause shock.
13. All wiring must be properly arranged to ensure that the control board cover can close properly. If the control board cover is not closed properly, it can lead to corrosion and cause the connection points on the terminal to heat up, catch fire, or cause electrical shock.
14. In certain functional environments, such as kitchens, server rooms, etc., the use of specially designed air-conditioning units is highly recommended.
15. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
16. 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.



## CAUTION

- ⊙ For units that have an auxiliary electric heater, do not install the unit within 1 meter (3 feet) of any combustible materials.
  - ⊙ Do not install the unit in a location that may be exposed to combustible gas leaks. If combustible gas accumulates around the unit, it may cause fire.
  - ⊙ Do not operate your air conditioner in a wet room such as a bathroom or laundry room. Too much exposure to water can cause electrical components to short circuit.
1. The product must be properly grounded at the time of installation, or electrical shock may occur
  2. Install drainage piping according to the instructions in this manual. Improper drainage may cause water damage to your home and property.

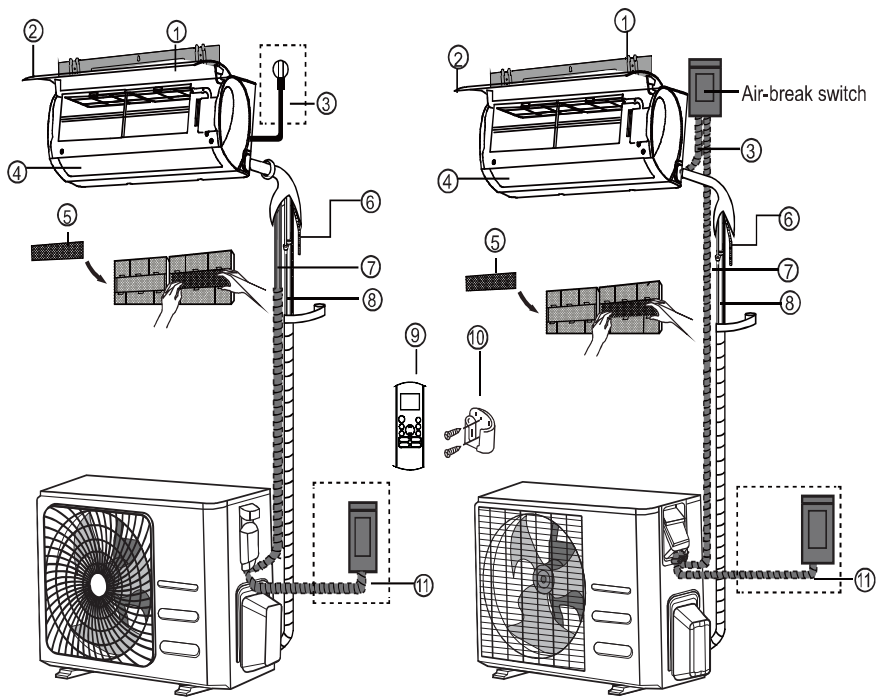
### Note about Fluorinated Gasses

1. This air-conditioning unit contains fluorinated gasses. For specific information on the type of gas and the amount, please refer to the relevant label on the unit itself.
2. Installation, service, maintenance and repair of this unit must be performed by a certified technician.
3. Product uninstallation and recycling must be performed by a certified technician.
4. If the system has a leak-detection system installed, it must be checked for leaks at least every 12 months.
5. When the unit is checked for leaks, proper record-keeping of all checks is strongly recommended.

# Unit Parts

# 2

**NOTE:** The installation must be performed in accordance with the requirement of local and national standards. The installation may be slightly different in different areas.



č1Ď

Fig 3.1

č2Ď

- ① Wall Mounting Plate
- ② Front Panel
- ③ Power Cable (Some Units)
- ④ Louver
- ⑤ Functional Filter (On Front of Main Filter - Some Units)
- ⑥ Drainage Pipe
- ⑦ Signal Cable
- ⑧ Refrigerant Piping
- ⑨ Remote Controller
- ⑩ Remote controller Holder (Some Units)
- ⑪ Outdoor Unit Power Cable (Some Units)

### NOTE ON ILLUSTRATIONS

Illustrations in this manual are for explanatory purposes. The actual shape of your indoor unit may be slightly different. The actual shape shall prevail.

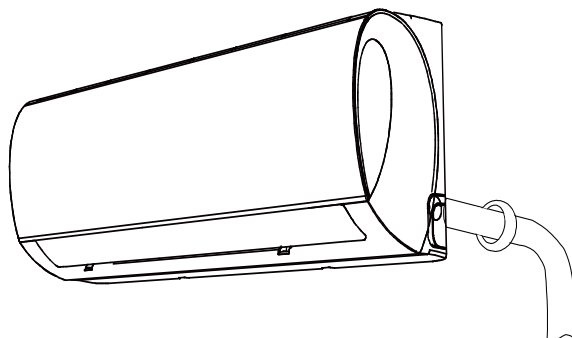


Fig. 3.1-a

## Installation Instructions – Indoor Unit

### PRIOR TO INSTALLATION

Before installing the indoor unit, refer to the label on the product box to make sure that the model number of the indoor unit matches the model number of the outdoor unit.

#### Step 1: Select installation location

Before installing the indoor unit, you must choose an appropriate location. The following are standards that will help you choose an appropriate location for the unit.

Proper installation locations meet the following standards:

- ✓ Good air circulation
- ✓ Convenient drainage
- ✓ Noise from the unit will not disturb other people
- ✓ Firm and solid—the location will not vibrate
- ✓ Strong enough to support the weight of the unit
- ✓ A location at least one meter from all other electrical devices (e.g., TV, radio, computer)

DO NOT install unit in the following locations:

- ⊘ Near any source of heat, steam, or combustible gas
- ⊘ Near flammable items such as curtains or clothing
- ⊘ Near any obstacle that might block air circulation
- ⊘ Near the doorway
- ⊘ In a location subject to direct sunlight

### NOTE ABOUT WALL HOLE:

If there is no fixed refrigerant piping:

While choosing a location, be aware that you should leave ample room for a wall hole (see Drill wall hole for connective piping step) for the signal cable and refrigerant piping that connect the indoor and outdoor units. The default position for all piping is the right side of the indoor unit (while facing the unit). However, the unit can accommodate piping to both the left and right.

Refer to the following diagram to ensure proper distance from walls and ceiling:

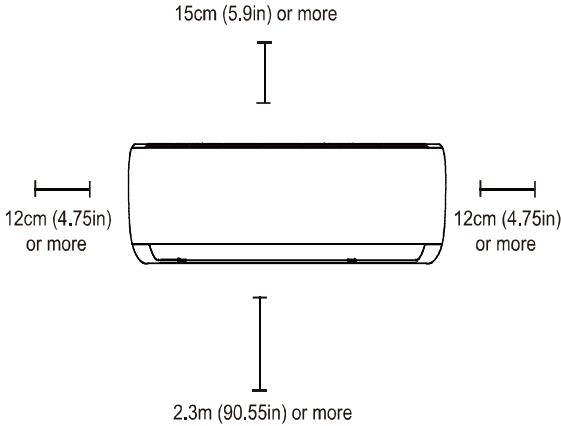


Fig. 3.1-b

### Step 2: Attach mounting plate to wall

The mounting plate is the device on which you will mount the indoor unit.

1. Remove the screw that attaches the mounting plate to the back of the indoor unit.
2. Place the mounting plate against the wall in a location that meets the standards in the **Select Installation Location** step. (See Mounting Plate Dimensions for detailed information on mounting plate sizes.)
3. Drill holes for mounting screws in places that:
  - have studs and can support the weight of the unit
  - correspond to screw holes in the mounting plate
4. Secure the mounting plate to the wall with the screws provided.
5. Make sure that mounting plate is flat against the wall.

#### **NOTE FOR CONCRETE OR BRICK WALLS:**

If the wall is made of brick, concrete, or similar material, drill 5mm-diameter (0.2in-diameter) holes in the wall and insert the sleeve anchors provided. Then secure the mounting plate to the wall by tightening the screws directly into the clip anchors.

### Step 3: Drill wall hole for connective piping

You must drill a hole in the wall for refrigerant piping, the drainage pipe, and the signal cable that will connect the indoor and outdoor units.

1. Determine the location of the wall hole based on the position of the mounting plate. Refer to **Mounting Plate Dimensions** on the next page to help you determine the optimal position. The wall hole should have a 65mm (2.5in) diameter at least, and at a slightly lower angle to facilitate drainage.
2. Using a 65mm (2.5in) or 90mm(3.54in) (depending on models) core drill, drill a hole in the wall. Make sure that the hole is drilled at a slight downward angle, so that the outdoor end of the hole is lower than the indoor end by about 5mm to 7mm (0.2-0.275in). This will ensure proper water drainage. (See **Fig. 3.2**)
3. Place the protective wall cuff in the hole. This protects the edges of the hole and will help seal it when you finish the installation process.

#### **! CAUTION**

When drilling the wall hole, make sure to avoid wires, plumbing, and other sensitive components.

# INSTALLATION PLATE MOUNTING

## NOTE:

1. The mounting wall is strong and solid enough to prevent it from the vibration.
2. Note: Standard mounting plate is model A, model B or model C, please refer to the actual unit.

## ● Installation Plate Mounting

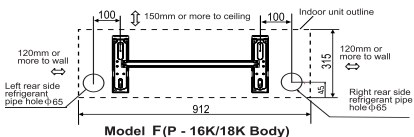
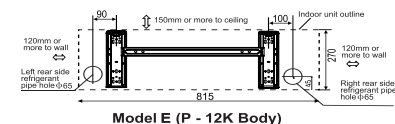
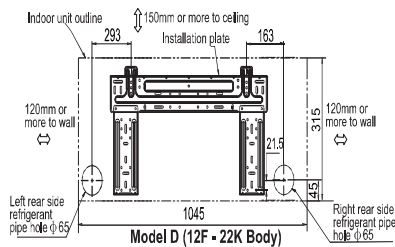
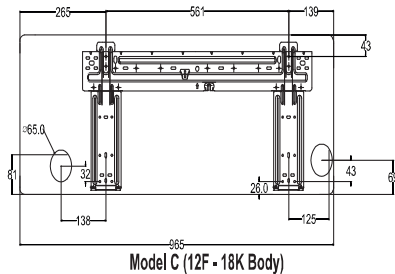
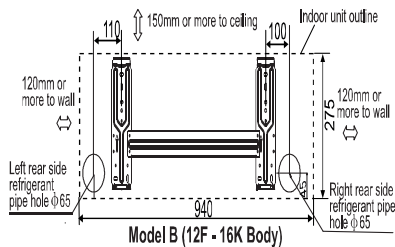
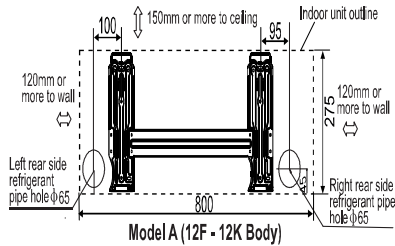
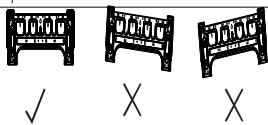
1. Fit the installation plate horizontally on structural parts of the wall with spaces around the installation plate.
2. If the wall is made of brick, concrete or the like, drill five or eight 5mm diameter holes in the wall. Insert Clip anchor for appropriate mounting screws.
3. Fit the installation plate on the wall with five or eight type "A" screws.

## NOTE:

Mount the Installation Plate and drill holes in the wall according to the wall structure and corresponding mounting points on the installation plate. The installation plate provided with the machine differ from appliance to appliance.

(Dimensions are in "mm "unless otherwise stated)

Correct orientation of Installation Plate



### Step 4: Prepare refrigerant piping

The refrigerant piping is inside an insulating sleeve attached to the back of the unit. You must prepare the piping before passing it through the hole in the wall. Refer to the **Refrigerant Piping Connection** section of this manual for detailed instructions on pipe flaring and flare torque requirements, technique, etc.

1. Based on the position of the wall hole relative to the mounting plate, choose the side from which the piping will exit the unit.
2. If the wall hole is behind the unit, keep the knock-out panel in place. If the wall hole is to the side of the indoor unit, remove the plastic knock-out panel from that side of the unit. (See **Fig. 3.3** ). This will create a slot through which your piping can exit the unit. Use needle nose pliers if the plastic panel is too difficult to remove by hand.

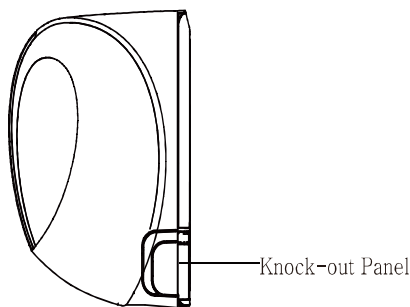


Fig. 3.3

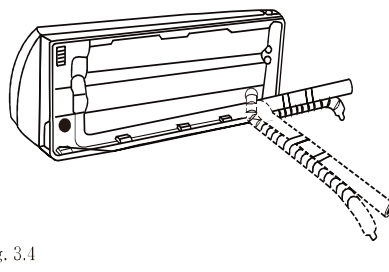
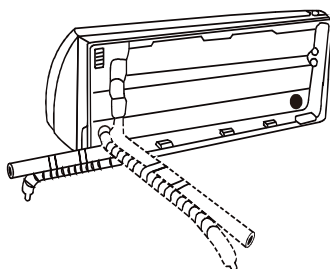


Fig. 3.4

3. Use scissors to cut down the length of the insulating sleeve to reveal about 15cm (6in) of the refrigerant piping. This serves two purposes:
  - To facilitate the **Refrigerant Piping Connection process**
  - To facilitate Gas Leak Checks and enable you to check for dents
4. If existing connective piping is already embedded in the wall, proceed directly to the **Connect Drain Hose** step. If there is no embedded piping, connect the indoor unit's refrigerant piping to the connective piping that will join the indoor and outdoor units. Refer to the **Refrigerant Piping Connection** section of this manual for detailed instructions.
5. Based on the position of the wall hole relative to the mounting plate, determine the necessary angle of your piping.
6. Grip the refrigerant piping at the base of the bend.
7. Slowly, with even pressure, bend the piping towards the hole. **Do not** dent or damage the piping during the process.

#### NOTE ON PIPING ANGLE

Refrigerant piping can exit the indoor unit from four different angles:

- Left-hand side
- Left rear
- Right-hand side
- Right rear

Refer to Fig. 3.4 for details.

#### ! CAUTION

Be extremely careful not to dent or damage the piping while bending them away from the unit. Any dents in the piping will affect the unit's performance.

### Step 5: Connect drain hose

By default, the drain hose is attached to the left-hand side of unit (when you're facing the back of the unit). However, it can also be attached to the right-hand side.

1. To ensure proper drainage, attach the drain hose on the same side that your refrigerant piping exits the unit.
2. Attach drain hose extension (purchased separately) to the end of drain hose.
3. Wrap the connection point firmly with Teflon tape to ensure a good seal and to prevent leaks.
4. For the portion of the drain hose that will remain indoors, wrap it with foam pipe insulation to prevent condensation.
5. Remove the air filter and pour a small amount of water into the drain pan to make sure that water flows from the unit smoothly.

#### ! NOTE ON DRAIN HOSE PLACEMENT

Make sure to arrange the drain hose according to Fig. 3.5.

- **DO NOT** kink the drain hose.
- **DO NOT** create a water trap.
- **DO NOT** put the end of drain hose in water or a container that will collect water.

#### PLUG THE UNUSED DRAIN HOLE

To prevent unwanted leaks you must plug the unused drain hole with the rubber plug provided.

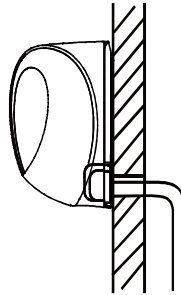


Fig. 3.5

#### CORRECT

Make sure there are no kinks or dent in drain hose to ensure proper drainage.



#### NOT CORRECT

Kinks in the drain hose will create water traps.

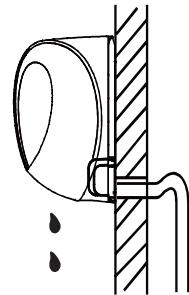


Fig. 3.6



#### NOT CORRECT

Kinks in the drain hose will create water traps.

Fig. 3.7

#### NOT CORRECT

Do not place the end of the drain hose in water or in containers that collect water. This will prevent proper drainage.

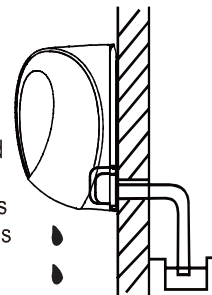


Fig. 3.8



## BEFORE PERFORMING ELECTRICAL WORK, READ THESE REGULATIONS

1. All wiring must comply with local and national electrical codes, and must be installed by a licensed electrician.
2. All electrical connections must be made according to the Electrical Connection Diagram located on the panels of the indoor and outdoor units.
3. If there is a serious safety issue with the power supply, stop work immediately. Explain your reasoning to the client, and refuse to install the unit until the safety issue is properly resolved.
4. Power voltage should be within 90-110% of rated voltage. Insufficient power supply can cause malfunction, electrical shock, or fire.
5. If connecting power to fixed wiring, install a surge protector and power switch with a capacity of 1.5 times the maximum current of the unit.
6. If connecting power to fixed wiring, a switch or circuit breaker that disconnects all poles and has a contact separation of at least 1/8in (3mm) must be incorporated in the fixed wiring. The qualified technician must use an approved circuit breaker or switch.
7. Only connect the unit to an individual branch circuit outlet. Do not connect another appliance to that outlet.
8. Make sure to properly ground the air conditioner.
9. Every wire must be firmly connected. Loose wiring can cause the terminal to overheat, resulting in product malfunction and possible fire.
10. Do not let wires touch or rest against refrigerant tubing, the compressor, or any moving parts within the unit.
11. If the unit has an auxiliary electric heater, it must be installed at least 1 meter (40in) away from any combustible materials.



### WARNING

BEFORE PERFORMING ANY ELECTRICAL OR WIRING WORK, TURN OFF THE MAIN POWER TO THE SYSTEM.

## Step 6: Connect signal cable

The signal cable enables communication between the indoor and outdoor units. You must first choose the right cable size before preparing it for connection.

### Cable Types

- Indoor Power Cable (if applicable): H05VV-F or H05V2V2-F
- Outdoor Power Cable: H07RN-F
- Signal Cable: H07RN-F

### Minimum Cross-Sectional Area of Power and Signal Cables

#### North America

Appliance Amps (A)	AWG
10	18
13	16
18	14
25	12
30	10

#### Other Regions

Rated Current of Appliance (A)	Nominal Cross-Sectional Area (mm <sup>2</sup> )
> 3 and ≤ 6	0.75
> 6 and ≤ 10	1
> 10 and ≤ 16	1.5
> 16 and ≤ 25	2.5
> 25 and ≤ 32	4
> 32 and ≤ 40	6

## CHOOSE THE RIGHT CABLE SIZE

The size of the power supply cable, signal cable, fuse, and switch needed is determined by the maximum current of the unit. The maximum current is indicated on the nameplate located on the side panel of the unit. Refer to this nameplate to choose the right cable, fuse, or switch.

### TAKE NOTE OF FUSE SPECIFICATIONS

The air conditioner's circuit board (PCB) is designed with a fuse to provide overcurrent protection. The specifications of the fuse

are printed on the circuit board, such as:

**Indoor unit: T5A/250VAC**

**Outdoor unit (applicable to units adopt**

R32 or R290 refrigerant only):

T20A/250VAC (≤18000Btu/h units)

T30A/250VAC (>18000Btu/h units)

**NOTE: The fuse is made of ceramic.**

1. Prepare the cable for connection:
  - a. Using wire strippers, strip the rubber jacket from both ends of signal cable to reveal about 40mm (1.57in) of the wires inside.
  - b. Strip the insulation from the ends of the wires.
  - c. Using wire crimper, crimp u-type lugs on the ends of the wires.

## PAY ATTENTION TO LIVE WIRE

While crimping wires, make sure you clearly distinguish the Live ("L") Wire from other wires.

2. Open front panel of the indoor unit.
3. Using a screwdriver, open the wire box cover on the right side of the unit. This will reveal the terminal block.

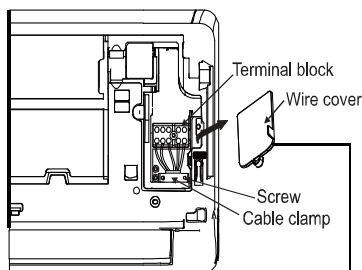


Fig. 3.9

The Wiring Diagram is located on the inside of the indoor unit's wire cover.

## ⚠ WARNING

**ALL WIRING MUST PERFORMED STRICTLY IN ACCORDANCE WITH THE WIRING DIAGRAM LOCATED ON THE INSIDE OF THE INDOOR UNIT'S WIRE COVER.**

4. Unscrew the cable clamp below the terminal block and place it to the side.
5. Facing the back of the unit, remove the plastic panel on the bottom left-hand side.

6. Feed the signal wire through this slot, from the back of the unit to the front.
7. Facing the front of the unit, match the wire colors with the labels on the terminal block, connect the u-lug and and firmly screw each wire to its corresponding terminal.

### ! CAUTION

#### DO NOT MIX UP LIVE AND NULL WIRES

This is dangerous, and can cause the air conditioning unit to malfunction.

8. After checking to make sure every connection is secure, use the cable clamp to fasten the signal cable to the unit. Screw the cable clamp down tightly.
9. Replace the wire cover on the front of the unit, and the plastic panel on the back.

### ! NOTE ABOUT WIRING

THE WIRING CONNECTION PROCESS MAY DIFFER SLIGHTLY BETWEEN UNITS.

#### Step 7: Wrap piping and cables

Before passing the piping, drain hose, and the signal cable through the wall hole, you must bundle them together to save space, protect them, and insulate them.

1. Bundle the drain hose, refrigerant pipes, and signal cable according to **Fig. 3.10**.

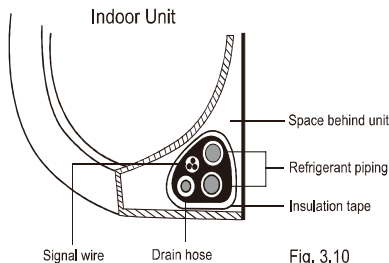


Fig. 3.10

#### DRAIN HOSE MUST BE ON BOTTOM

Make sure that the drain hose is at the bottom of the bundle. Putting the drain hose at the top of the bundle can cause the drain pan to overflow, which can lead to fire or water damage.

#### DO NOT INTERTWINE SIGNAL CABLE WITH OTHER WIRES

While bundling these items together, do not intertwine or cross the signal cable with any other wiring.

2. Using adhesive vinyl tape, attach the drain hose to the underside of the refrigerant pipes.
3. Using insulation tape, wrap the signal wire, refrigerant pipes, and drain hose tightly together. Double-check that all items are bundled in accordance with **Fig. 3.10**.

#### DO NOT WRAP ENDS OF PIPING

When wrapping the bundle, keep the ends of the piping unwrapped. You need to access them to test for leaks at the end of the installation process (refer to **Electrical Checks** and **Leak Checks** section of this manual).

#### Step 8: Mount indoor unit

If you installed new connective piping to the outdoor unit, do the following:

1. If you have already passed the refrigerant piping through the hole in the wall, proceed to Step 4.
2. Otherwise, double-check that the ends of the refrigerant pipes are sealed to prevent dirt or foreign materials from entering the pipes.
3. Slowly pass the wrapped bundle of refrigerant pipes, drain hose, and signal wire through the hole in the wall.
4. Hook the top of the indoor unit on the upper hook of the mounting plate.
5. Check that unit is hooked firmly on mounting by applying slight pressure to the left and right-hand sides of the unit. The unit should not jiggle or shift.
6. Using even pressure, push down on the bottom half of the unit. Keep pushing down until the unit snaps onto the hooks along the bottom of the mounting plate.
7. Again, check that the unit is firmly mounted by applying slight pressure to the left and the right-hand sides of the unit.

If refrigerant piping is already embedded in the wall, do the following:

1. Hook the top of the indoor unit on the upper hook of the mounting plate.
2. Use a bracket or wedge to prop up the unit, giving you enough room to connect the refrigerant piping, signal cable, and drain hose. Refer to Fig. 3.11 for an example.
3. Connect drain hose and refrigerant piping (refer to **Refrigerant Piping Connection** section of this manual for instructions).
4. Keep pipe connection point exposed to perform the leak test (refer to **Electrical Checks and Leak Checks** section of this manual).
5. After the leak test, wrap the connection point with insulation tape.
6. Remove the bracket or wedge that is propping up the unit.
7. Using even pressure, push down on the bottom half of the unit. Keep pushing down until the unit snaps onto the hooks along the bottom of the mounting plate.

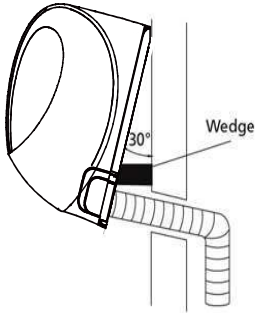
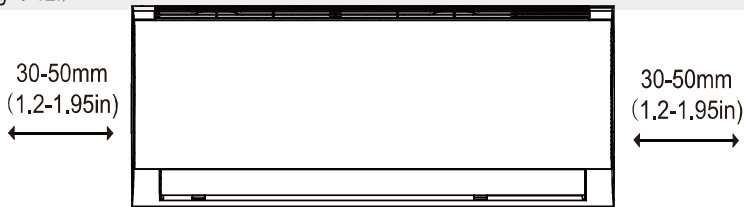


Fig. 3.11

#### UNIT IS ADJUSTABLE

Keep in mind that the hooks on the mounting plate are smaller than the holes on the back of the unit. If you find that you don't have ample room to connect embedded pipes to the indoor unit, the unit can be adjusted left or right by about 30-50mm (1.25-1.95in), depending on the model. (See Fig. 3.12.)

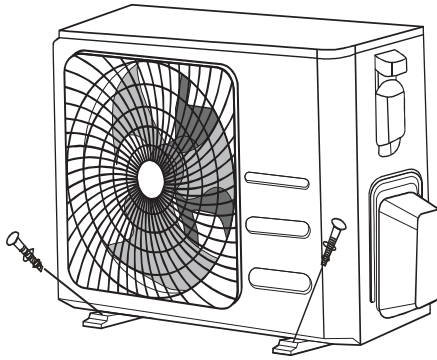


Move to left or right

Fig. 3.12

# Outdoor Unit Installation

# 4



## Installation Instructions – Outdoor Unit

### Step 1: Select installation location

Before installing the outdoor unit, you must choose an appropriate location. The following are standards that will help you choose an appropriate location for the unit.

**Proper installation locations meet the following standards:**

- ✓ Meets all spatial requirements shown in Installation Space Requirements (**Fig. 4.1**)
- ✓ Good air circulation and ventilation
- ✓ Firm and solid—the location can support the unit and will not vibrate
- ✓ Noise from the unit will not disturb others
- ✓ Protected from prolonged periods of direct sunlight or rain

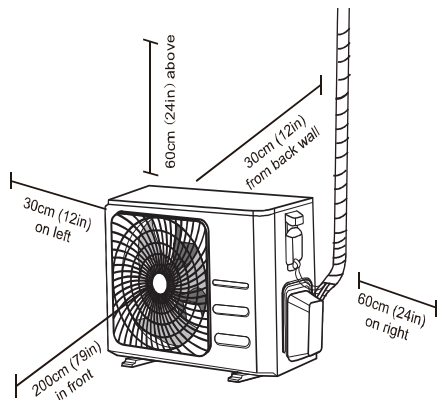


Fig. 4.1

### **DO NOT** install unit in the following locations:

- Near an obstacle that will block air inlets and outlets
- Near a public street, crowded areas, or where noise from the unit will disturb others
- Near animals or plants that will be harmed by hot air discharge
- Near any source of combustible gas
- In a location that is exposed to large amounts of dust
- In a location exposed to a excessive amounts of salty air

## SPECIAL CONSIDERATIONS FOR EXTREME WEATHER

If the unit is exposed to heavy wind:

Install unit so that air outlet fan is at a 90° angle to the direction of the wind. If needed, build a barrier in front of the unit to protect it from extremely heavy winds.

See Fig. 4.2 and Fig. 4.3 below.

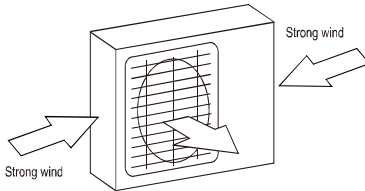


Fig. 4.2

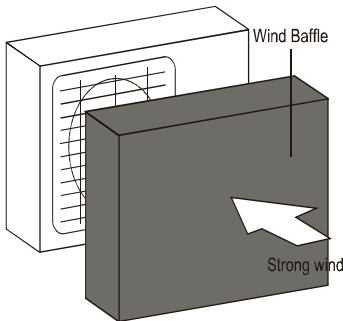


Fig. 4.3

**If the unit is frequently exposed to heavy rain or snow:**

Build a shelter above the unit to protect it from the rain or snow. Be careful not to obstruct air flow around the unit.

**If the unit is frequently exposed to salty air (seaside):**

Use outdoor unit that is specially designed to resist corrosion.

### Step 2: Install drain joint

Heat pump units require a drain joint. Before bolting the outdoor unit in place, you must install the drain joint at the bottom of the unit. Note that there are two different types of drain joints depending on the type of outdoor unit.

**If the drain joint comes with a rubber seal** (see Fig. 4.4 - A ), do the following:

1. Fit the rubber seal on the end of the drain joint that will connect to the outdoor unit.
2. Insert the drain joint into the hole in the base pan of the unit.
3. Rotate the drain joint 90° until it clicks in place facing the front of the unit.
4. Connect a drain hose extension (not included) to the drain joint to redirect water from the unit during heating mode.

**If the drain joint doesn't come with a rubber seal** (see Fig. 4.4 - B ), do the following:

1. Insert the drain joint into the hole in the base pan of the unit. The drain joint will click in place.
2. Connect a drain hose extension (not included) to the drain joint to redirect water from the unit during heating mode.

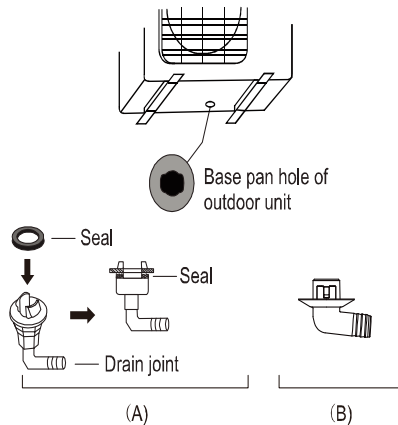


Fig. 4.4

### ! IN COLD CLIMATES

In cold climates, make sure that the drain hose is as vertical as possible to ensure swift water drainage. If water drains too slowly, it can freeze in the hose and flood the unit.

### Step 3: Anchor outdoor unit

The outdoor unit can be anchored to the ground or to a wall-mounted bracket.

#### UNIT MOUNTING DIMENSIONS

The following is a list of different outdoor unit sizes and the distance between their mounting feet. Prepare the installation base of the unit according to the dimensions below.

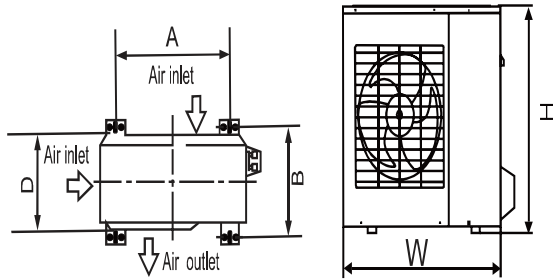


Fig. 4.5

Outdoor unit dimension mm (W x H x D)	Mounting dimensions	
	A (mm)	B (mm)
700x540x240	458	250
685x430x260	460	276
780x540x250	549	276
760x590x285	530	290
845x700x320	560	335
775x545x310	600	320
670x540x265	481	276

If you will install the unit on the ground or on a concrete mounting platform, do the following:

1. Mark the positions for four expansion bolts based on dimensions in the Unit Mounting Dimensions chart.
2. Pre-drill holes for expansion bolts.
3. Clean concrete dust away from holes.
4. Place a nut on the end of each expansion bolt.
5. Hammer expansion bolts into the pre-drilled holes.
6. Remove the nuts from expansion bolts, and place outdoor unit on bolts.
7. Put washer on each expansion bolt, then replace the nuts.
8. Using a wrench, tighten each nut until snug.

#### WARNING

WHEN DRILLING INTO CONCRETE, EYE PROTECTION IS RECOMMENDED AT ALL TIMES.

If you will install the unit on a wall-mounted bracket, do the following:

### **! CAUTION**

Before installing a wall-mounted unit, make sure that the wall is made of solid brick, concrete, or of similarly strong material. **The wall must be able to support at least four times the weight of the unit.**

1. Mark the position of bracket holes based on dimensions in the Unit Mounting Dimensions chart.
2. Pre-drill the holes for the expansion bolts.
3. Clean dust and debris away from holes.
4. Place a washer and nut on the end of each expansion bolt.
5. Thread expansion bolts through holes in mounting brackets, put mounting brackets in position, and hammer expansion bolts into the wall.
6. Check that the mounting brackets are level.
7. Carefully lift unit and place its mounting feet on brackets.
8. Bolt the unit firmly to the brackets.

### **TO REDUCE VIBRATIONS OF WALL-MOUNTED UNIT**

If allowed, you can install the wall-mounted unit with rubber gaskets to reduce vibrations and noise.

#### **Step 4: Connect signal and power cables**

The outside unit's terminal block is protected by an electrical wiring cover on the side of the unit. A comprehensive wiring diagram is printed on the inside of the wiring cover.

### **! BEFORE PERFORMING ELECTRICAL WORK, READ THESE REGULATIONS**

1. All wiring must comply with local and national electrical codes, and must be installed by a licensed electrician.
2. All electrical connections must be made according to the Electrical Connection Diagram located on the side panels of the indoor and outdoor units.
3. If there is a serious safety issue with the power supply, stop work immediately. Explain your reasoning to the client, and refuse to install the unit until the safety issue is properly resolved.
4. Power voltage should be within 90-110% of rated voltage. Insufficient power supply can cause electrical shock or fire.
5. If connecting power to fixed wiring, install a surge protector and main power switch with a capacity of 1.5 times the maximum current of the unit.
6. If connecting power to fixed wiring, a switch or circuit breaker that disconnects all poles and has a contact separation of at least 1/8in (3mm) must be incorporated in the fixed wiring. The qualified technician must use an approved circuit breaker or switch.
7. Only connect the unit to an individual branch circuit outlet. Do not connect another appliance to that outlet.
8. Make sure to properly ground the air conditioner.
9. Every wire must be firmly connected. Loose wiring can cause the terminal to overheat, resulting in product malfunction and possible fire.
10. **Do not** let wires touch or rest against refrigerant tubing, the compressor, or any moving parts within the unit.
11. If the unit has an auxiliary electric heater, it must be installed at least 1 meter (40in) away from any combustible materials.

## **! WARNING**

BEFORE PERFORMING ANY ELECTRICAL OR WIRING WORK, TURN OFF THE MAIN POWER TO THE SYSTEM.

1. Prepare the cable for connection:

### **USE THE RIGHT CABLE**

- Indoor Power Cable (if applicable): H05VV-F or H05V2V2-F
- Outdoor Power Cable: H07RN-F
- Signal Cable: H07RN-F

Minimum Cross-Sectional Area of Power and Signal Cables

#### North America

Appliance Amps (A)	AWG
10	18
13	16
18	14
25	12
30	10

#### Other Regions

Rated Current of Appliance (A)	Nominal Cross-Sectional Area (mm <sup>2</sup> )
> 3 and ≤ 6	0.75
> 6 and ≤ 10	1
> 10 and ≤ 16	1.5
> 16 and ≤ 25	2.5
> 25 and ≤ 32	4
> 32 and ≤ 40	6

- Using wire strippers, strip the rubber jacket from both ends of cable to reveal about 40mm (1.57in) of the wires inside.
- Strip the insulation from the ends of the wires.
- Using a wire crimper, crimp u-lugs on the ends of the wires.

## **PAY ATTENTION TO LIVE WIRE**

While crimping wires, make sure you clearly distinguish the Live ("L") Wire from other wires.

## **! WARNING**

ALL WIRING MUST PERFORMED STRICTLY IN ACCORDANCE WITH THE WIRING DIRGRAM LOCATED INSIDE THE OUTDOOR UNIT'S WIRE COVER.

- Unscrew the electrical wiring cover and remove it.
- Unscrew the cable clamp below the terminal block and place it to the side.
- Match the wire colors/labels with the labels on the terminal block, and firmly screw the u-lug of each wire to its corresponding terminal.
- After checking to make sure every connection is secure, loop the wires around to prevent rain water from flowing into the terminal.
- Using the cable clamp, fasten the cable to the unit. Screw the cable clamp down tightly.
- Insulate unused wires with PVC electrical tape. Arrange them so that they do not touch any electrical or metal parts.
- Replace the wire cover on the side of the unit, and screw it in place.

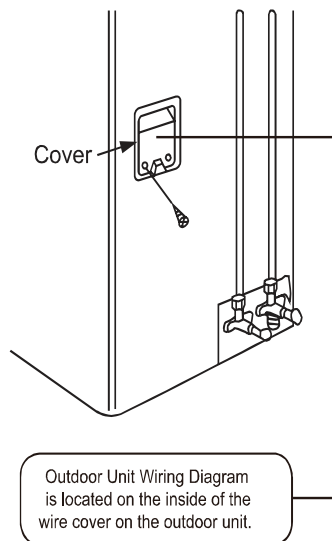
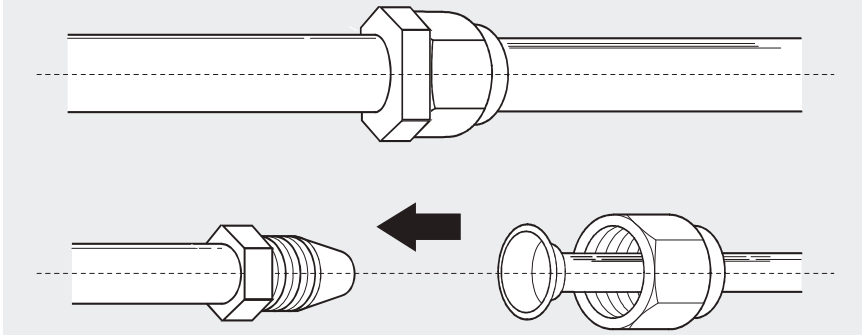


Fig. 4.6

# Refrigerant Piping Connection

# 5



## Note on Pipe Length

The length of refrigerant piping will affect the performance and energy efficiency of the unit. Nominal efficiency is tested on units with a pipe length of 5 meters (16.5ft), in North America, the standard pipe length is 7.5m (25'). A minimum pipe run of 3 meters is required to minimise vibration & excessive noise. Refer to the table below for specifications on the maximum length and drop height of piping.

Maximum Length and Drop Height of Refrigerant Piping per Unit Model

Model	Capacity (BTU/h)	Max. Length (m)	Max. Drop Height (m)
R410A Inverter Split Air Conditioner	< 15,000	25 (82ft)	10 (33ft)
	≥ 15,000 and < 24,000	30 (98.5ft)	20 (66ft)
	≥ 24,000 and < 36,000	50 (164ft)	25 (82ft)
	≥ 36,000 and ≤ 60,000	65 (213ft)	30 (98.5ft)

## Connection Instructions – Refrigerant Piping

### Step 1: Cut pipes

When preparing refrigerant pipes, take extra care to cut and flare them properly. This will ensure efficient operation and minimize the need for future maintenance. **For R32/R290 refrigerant models, the pipe connection points must be placed outside of room.**

1. Measure the distance between the indoor and outdoor units,

2. Using a pipe cutter, cut the pipe a little longer than the measured distance.
3. Make sure that the pipe is cut at a perfect 90° angle. Refer to Fig. 5.1 for bad cut examples.

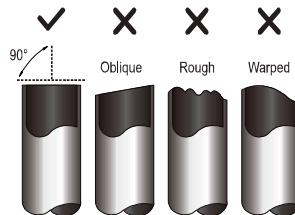


Fig. 5.1

**! DO NOT DEFORM PIPE WHILE CUTTING**

Be extra careful not to damage, dent, or deform the pipe while cutting. This will drastically reduce the heating efficiency of the unit.

**Step 2: Remove burrs**

Burrs can affect the air-tight seal of refrigerant piping connection. They must be completely removed.

1. Hold the pipe at a downward angle to prevent burrs from falling into the pipe.
2. Using a reamer or deburring tool, remove all burrs from the cut section of the pipe.

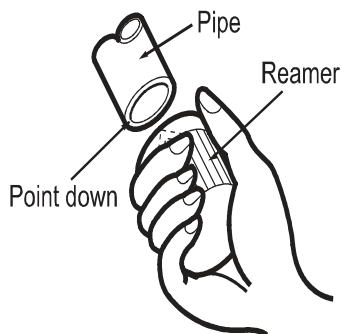


Fig. 5.2

**Step 3: Flare pipe ends**

Proper flaring is essential to achieve an airtight seal.

1. After removing burrs from cut pipe, seal the ends with PVC tape to prevent foreign materials from entering the pipe.
2. Sheath the pipe with insulating material.
3. Place flare nuts on both ends of pipe. Make sure they are facing in the right direction, because you can't put them on or change their direction after flaring. See Fig. 5..3

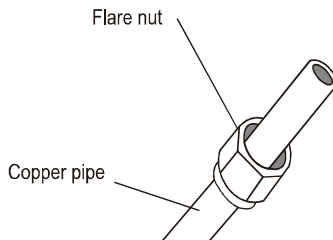


Fig. 5.3

4. Remove PVC tape from ends of pipe when ready to perform flaring work.
5. Clamp flare form on the end of the pipe. The end of the pipe must extend beyond the edge of the flare form in accordance with the dimensions shown in the table below

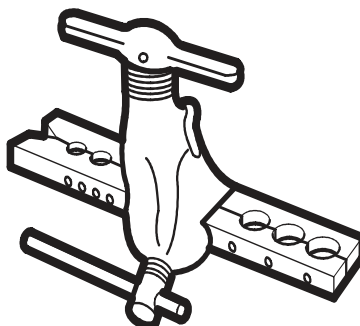


Fig. 5.4

**PIPING EXTENSION BEYOND FLARE FORM**

Outer Diameter of Pipe (mm)	A (mm)	
	Min.	Max.
Ø 6.35 (Ø 0.25")	0.7 (0.0275")	1.3 (0.05")
Ø 9.52 (Ø 0.375")	1.0 (0.04")	1.6 (0.063")
Ø12.7 (Ø 0.5")	1.0 (0.04")	1.8 (0.07")
Ø 16 (Ø 0.63")	2.0 (0.078")	2.2 (0.086")
Ø 19 (Ø 0.75")	2.0 (0.078")	2.4 (0.094")

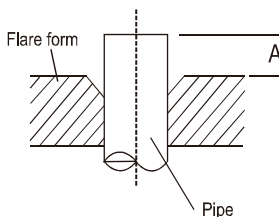


Fig. 5.5

6. Place flaring tool onto the form.
7. Turn the handle of the flaring tool clockwise until the pipe is fully flared.
8. Remove the flaring tool and flare form, then inspect the end of the pipe for cracks and even flaring.

#### Step 4: Connect pipes

When connecting refrigerant pipes, be careful not to use excessive torque or to deform the piping in any way. You should first connect the indoor unit, then the outdoor unit.

#### MINIMUM BEND RADIUS

When bending connective refrigerant piping, the minimum bending radius is 10cm. See Fig..5.6

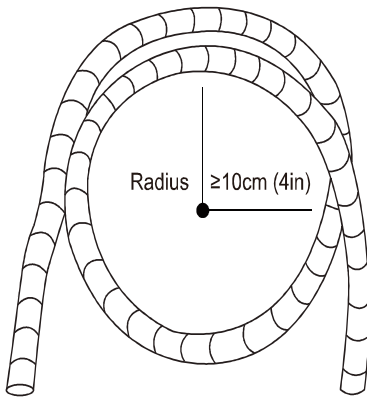


Fig. 5.6

#### Instructions for Connecting Piping to Indoor Unit

1. Align the center of the two pipes that you will connect. See Fig. 5.7.

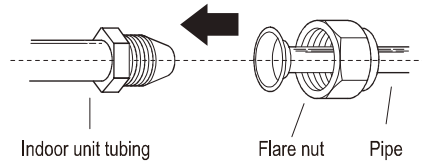


Fig. 5.7

2. Tighten the flare nut as tightly as possible by hand.
3. Using a spanner grip the nut on the unit tubing.
4. While firmly gripping the nut on the unit tubing, use a torque wrench to tighten the flare nut according to the torque values in the **Torque Requirements** table below. Loosen the flaring nut slightly, then tighten again.

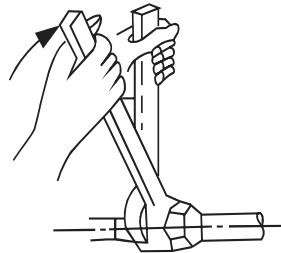


Fig. 5.8

#### TORQUE REQUIREMENTS

Outer Diameter of Pipe (mm)	Tightening Torque (N•cm)	Add. Tightening Torque (N•cm)
Ø 6.35 (Ø 0.25")	1,500 (11lb•ft)	1,600 (11.8lb•ft)
Ø 9.52 (Ø 0.375")	2,500 (18.4lb•ft)	2,600 (19.18lb•ft)
Ø 12.7 (Ø 0.5")	3,500 (25.8lb•ft)	3,600 (26.55lb•ft)
Ø 16 (Ø 0.63")	4,500 (33.19lb•ft)	4,700 (34.67lb•ft)
Ø 19 (Ø 0.75")	6,500 (47.94lb•ft)	6,700 (49.42lb•ft)

#### ! DO NOT USE EXCESSIVE TORQUE

Excessive force can break the nut or damage the refrigerant piping. You must not exceed torque requirements shown in the table above.

## Instructions for Connecting Piping to Outdoor Unit

1. Unscrew the cover from the packed valve on the side of the outdoor unit. (See Fig. 5.9)

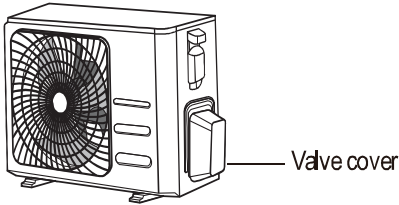


Fig. 5.9

2. Remove protective caps from ends of valves.
3. Align flared pipe end with each valve, and tighten the flare nut as tightly as possible by hand.
4. Using a spanner grip the body of the valve. Do not grip the nut that seals the service valve. (See Fig. 5.10)

## ! USE SPANNER TO GRIP MAIN BODY OF VALVE

Torque from tightening the flare nut can snap off other parts of valve.

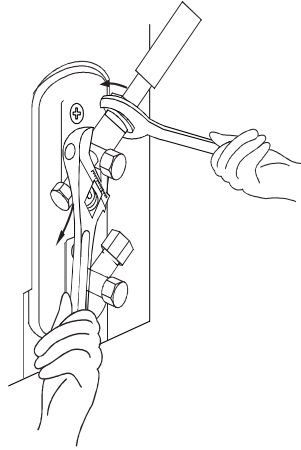
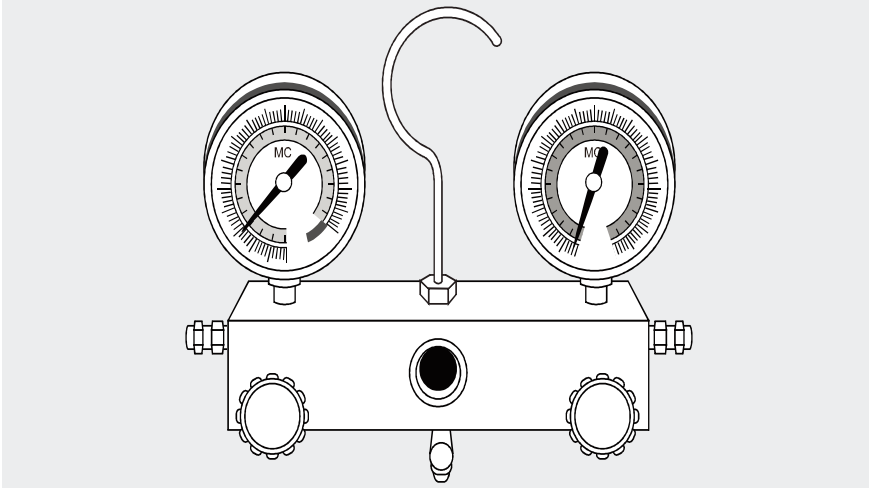


Fig. 5.10

5. While firmly gripping the body of the valve, use a torque wrench to tighten the flare nut according to the correct torque values.
6. Loosen the flaring nut slightly then tighten again.
7. Repeat Steps 3 to 6 for the remaining pipe.



## Preparations and Precautions

Air and foreign matter in the refrigerant circuit can cause abnormal rises in pressure, which can damage the air conditioner reduce its efficiency, and cause injury. Use a vacuum pump and manifold gauge to evacuate the refrigerant circuit, removing any non-condensable gas and moisture from the system.

Evacuation should be performed upon initial installation and when unit is relocated.

### BEFORE PERFORMING EVACUATION

- ☑ Check to make sure that both high-pressure and low-pressure pipes between the indoor and outdoor units are connected properly in accordance with the Refrigerant Piping Connection section of this manual.
- ☑ Check to make sure all wiring is connected properly.

## Evacuation Instructions

Before using the manifold gauge and vacuum pump, read their operation manuals to familiarize yourself with how to use them properly.

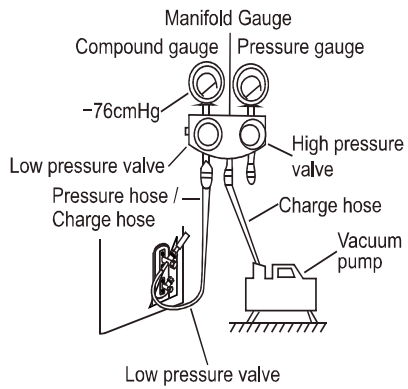


Fig. 6.1

1. Connect the charge hose of the manifold gauge to service port on the outdoor unit's low pressure valve.
2. Connect another charge hose from the manifold gauge to the vacuum pump.

- Open the Low Pressure side of the manifold gauge. Keep the High Pressure side closed.
- Turn on the vacuum pump to evacuate the system.
- Run the vacuum for at least 15 minutes, or until the Compound Meter reads -76cmHG ( $-10^5$  Pa).
- Close the Low Pressure side of the manifold gauge, and turn off the vacuum pump.
- Wait for 5 minutes, then check that there has been no change in system pressure.
- If there is a change in system pressure, refer to Gas Leak Check section for information on how to check for leaks. If there is no change in system pressure, unscrew the cap from the packed valve (high pressure valve).
- Insert hexagonal wrench into the packed valve (high pressure valve) and open the valve by turning the wrench in a 1/4 counterclockwise turn. Listen for gas to exit the system, then close the valve after 5 seconds.
- Watch the Pressure Gauge for one minute to make sure that there is no change in pressure. The Pressure Gauge should read slightly higher than atmospheric pressure.

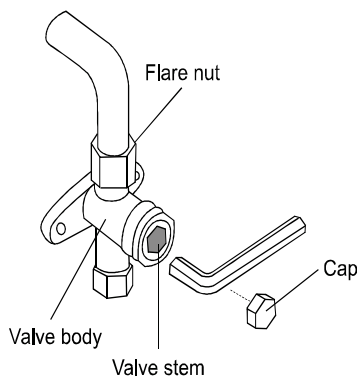


Fig. 6.2

- Remove the charge hose from the service port.
- Using hexagonal wrench, fully open both the high pressure and low pressure valves.
- Tighten valve caps on all three valves (service port, high pressure, low pressure) by hand. You may tighten it further using a torque wrench if needed.

### ! OPEN VALVE STEMS GENTLY

When opening valve stems, turn the hexagonal wrench until it hits against the stopper. Do not try to force the valve to open further.

### Note on Adding Refrigerant

Some systems require additional charging depending on pipe lengths. The standard pipe length varies according to local regulations. For example, in North America, the standard pipe length is 7.5m (25'). In other areas, the standard pipe length is 5m (16'). The additional refrigerant to be charged can be calculated using the following formula:

#### ADDITIONAL REFRIGERANT PER PIPE LENGTH

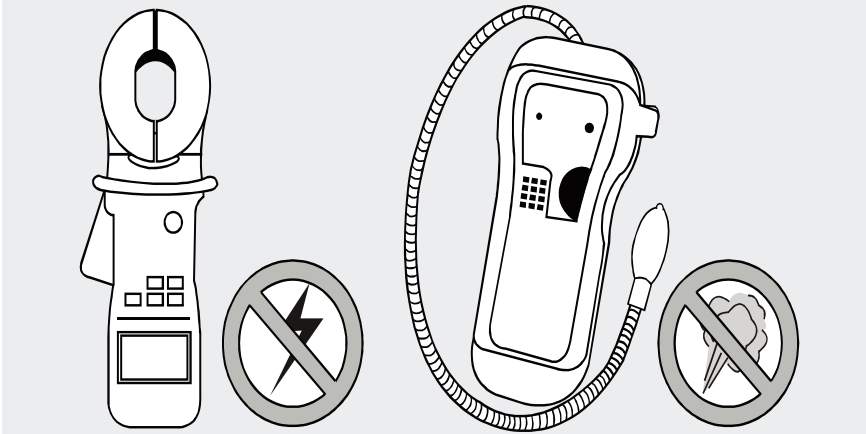
Connective Pipe Length (m)	Air Purging Method	Additional Refrigerant	
≤ Standard pipe length	Vacuum Pump	N/A	
> Standard pipe length	Vacuum Pump	Liquid Side: Ø 6,35 (ø 0.25") <b>R32:</b> (Pipe length – standard length) x 12g/m (Pipe length – standard length) x 0.13oz/ft <b>R290:</b> (Pipe length – standard length) x 10g/m (Pipe length – standard length) x 0.10oz/ft <b>R410A:</b> (Pipe length – standard length) x 15g/m (Pipe length – standard length) x 0.16oz/ft	Liquid Side: Ø 9,52 (ø 0.375") <b>R32:</b> (Pipe length – standard length) x 24g/m (Pipe length – standard length) x 0.26oz/ft <b>R290:</b> (Pipe length – standard length) x 18g/m (Pipe length – standard length) x 0.19oz/ft <b>R410A:</b> (Pipe length – standard length) x 30g/m (Pipe length – standard length) x 0.32oz/ft

For R290 refrigerant unit, the total amount of refrigerant to be charged is no more than: 387g(<=9000Btu/h), 447g(>9000Btu/h and <=12000Btu/h), 547g(>12000Btu/h and <=18000Btu/h), 632g(>18000Btu/h and <=24000Btu/h)

### ! CAUTION DO NOT mix refrigerant types.

# Electrical and Gas Leak Checks

# 7



## Electrical Safety Checks

After installation, confirm that all electrical wiring is installed in accordance with local and national regulations, and according to the Installation Manual.

### BEFORE TEST RUN

Check Grounding Work

Measure grounding resistance by visual detection and with grounding resistance tester. Grounding resistance must be less than  $0.1\Omega$ .

Note: This may not be required for some locations in the US.

### DURING TEST RUN

Check for Electrical Leakage

During the **Test Run**, use an electroprobe and multimeter to perform a comprehensive electrical leakage test.

If electrical leakage is detected, turn off the unit immediately and call a licensed electrician to find and resolve the cause of the leakage.

Note: This may not be required for some locations in the US.

## **⚠ WARNING – RISK OF ELECTRIC SHOCK**

ALL WIRING MUST COMPLY WITH LOCAL AND NATIONAL ELECTRICAL CODES, AND MUST BE INSTALLED BY A LICENSED ELECTRICIAN.

## Gas Leak Checks

There are two different methods to check for gas leaks.

Soap and Water Method

Using a soft brush, apply soapy water or liquid detergent to all pipe connection points on the indoor unit and outdoor unit. The presence of bubbles indicates a leak.

Leak Detector Method

If using leak detector, refer to the device's operation manual for proper usage instructions.

### AFTER PERFORMING GAS LEAK CHECKS

After confirming that the all pipe connection points **DO NOT** leak, replace the valve cover on the outside unit.

# Test Run

# 8

## Before Test Run

Only perform test run after you have completed the following steps:

- Electrical Safety Checks – Confirm that the unit's electrical system is safe and operating properly
- Gas Leak Checks – Check all flare nut connections and confirm that the system is not leaking
- Confirm that gas and liquid (high and low pressure) valves are fully open

## Test Run Instructions

You should perform the Test Run for at least 30 minutes.

1. Connect power to the unit.
2. Press the **ON/OFF** button on the remote controller to turn it on.
3. Press the **MODE** button to scroll through the following functions, one at a time:
  - COOL – Select lowest possible temperature
  - HEAT – Select highest possible temperature
4. Let each function run for 5 minutes, and perform the following checks:

List of Checks to Perform	PASS/FAIL	
No electrical leakage		
Unit is properly grounded		
All electrical terminals properly covered		
Indoor and outdoor units are solidly installed		
All pipe connection points do not leak	Outdoor (2):	Indoor (2):
Water drains properly from drain hose		
All piping is properly insulated		
Unit performs COOL function properly		
Unit performs HEAT function properly		
Indoor unit louvers rotate properly		
Indoor unit responds to remote controller		

## DOUBLE-CHECK PIPE CONNECTIONS

During operation, the pressure of the refrigerant circuit will increase. This may reveal leaks that were not present during your initial leak check. Take time during the Test Run to double-check that all refrigerant pipe connection points do not have leaks. Refer to Gas Leak Check section for instructions.

5. After the Test Run is successfully completed, and you confirm that all checks points in List of Checks to Perform have PASSED, do the following:
  - a. Using remote control, return unit to normal operating temperature.
  - b. Using insulation tape, wrap the indoor refrigerant pipe connections that you left uncovered during the indoor unit installation process.

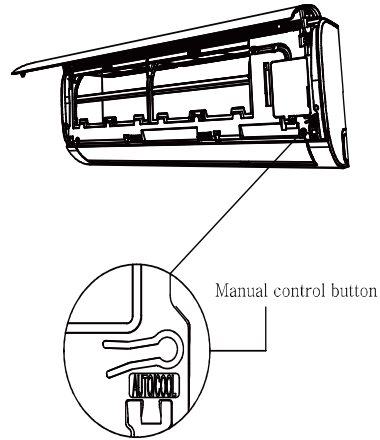


Fig. 8.1

## IF AMBIENT TEMPERATURE IS BELOW 17°C (63°F)

You can't use the remote controller to turn on the COOL function when the ambient temperature is below 17°C. In this instance, you can use the **MANUAL CONTROL** button to test the COOL function.

1. Lift the front panel of the indoor unit, and raise it until it clicks in place.
2. The **MANUAL CONTROL** button is located on the right-hand side of the unit. Press it 2 times to select the COOL function. See Fig.8.1
3. Perform Test Run as normal.

# Information Servicing

(Required for the units adopt R32/R290 Refrigerant only)

9

## 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.







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

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

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

**SALES OFFICES:** Gurgaon: 0124-4707333, 4707311, Ghaziabad: 0120-4183260, Chandigarh: 0172-5007548-50, Jaipur: 0141-4109080, Mumbai: 022-26528989, 42188800, Pune: 020-41051000, Goa: 0832-2447028, 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, Bhubaneswar: 0674-2585893, Nagpur: 0712-6453790, Ranchi: 0651-6452488, 2330095, Raipur: 0771-4013245.

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



# USER'S MANUAL

## Split Type Room Air Conditioner



**IMPORTANT NOTE:**

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



---

**SERVICE HELPLINE**  
**1800 4193 333**

---

Dear Customer,

For trouble free services please register with Carrier Customer Care on **1800 4193 333** or write to us at : **mideacare@carriermidea.com**

Manager

Customer Services

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**Caution: Risk of fire/  
flammable materials**

**WARNING:** Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants. For more details ,please refer to the “ Information on servicing” on “ INSTALLATION MANUAL ”.

## CAUTION

- Contact an authorised service technician for repair or maintenance of this unit.
- Contact the authinstaller for installation of this unit.
- 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.
- Young children should be supervised to ensure that they do not play with the air conditioner.
- If the power cord is to be replaced, replacement work shall be performed by authorised personnel only.
- Installation work must be performed in accordance with the national wiring standards by authorised personnel only.

# Safety Precautions

Incorrect installation due to ignoring instructions can cause serious damage or injury. The seriousness of potential damage or injuries is classified as either a WARNING or CAUTION.



WARNING

This symbol indicates that ignoring instructions may cause death or serious injury.



CAUTION

This symbol indicates that ignoring instructions may cause moderate injury to your person, or damage to your appliance or other property.

## WARNING

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.

## INSTALLATION WARNINGS

- Ask an authorized dealer to install this air conditioner. Inappropriate installation may cause water leakage, electric shock, or fire.
- All repairs, maintenance and relocation of this unit must be performed by an authorized service technician. Inappropriate repairs can lead to serious injury or product failure.

## WARNINGS FOR PRODUCT USE

- If an abnormal situation arises (like a burning smell), immediately turn off the unit and pull the power plug. Call your dealer for instructions to avoid electric shock, fire or injury.
- Do not insert fingers, rods or other objects into the air inlet or outlet. This may cause injury, since the fan may be rotating at high speeds.
- Do not use flammable sprays such as hair spray, lacquer or paint near the unit. This may cause fire or combustion.
- Do not operate the air conditioner in places near or around combustible gases. Emitted gas may collect around the unit and cause explosion.
- Do not operate the air conditioner in a wet room (e.g., bathroom or laundry room). This can cause electrical shock and cause the product to deteriorate.
- Do not expose your body directly to cool air for a prolonged period of time.

## ELECTRICAL WARNINGS

- Only use the specified power cord. If the power cord is damaged, it must be replaced by the manufacturer or certified service agent.
- Keep power plug clean. Remove any dust or grime that accumulates on or around the plug. Dirty plugs can cause fire or electric shock.
- Do not pull power cord to unplug unit. Hold the plug firmly and pull it from the outlet. Pulling directly on the cord can damage it, which can lead to fire or electric shock.
- Do not use an extension cord, manually extend the power cord, or connect other appliances to the same outlet as the air conditioner. Poor electrical connections, poor insulation, and insufficient voltage can cause fire.






## CLEANING AND MAINTENANCE WARNINGS

- Turn off the device and pull the plug before cleaning. Failure to do so can cause electrical shock.
- Do not clean the air conditioner with excessive amounts of water.
- Do not clean the air conditioner with combustible cleaning agents. Combustible cleaning agents can cause fire or deformation.

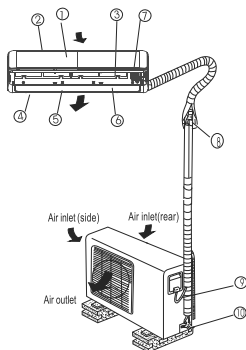
 **CAUTION**

- If the air conditioner is used together with burners or other heating devices, thoroughly ventilate the room to avoid oxygen deficiency.
- Turn off the air conditioner and unplug the unit if you are not going to use it for a long time.
- Turn off and unplug the unit during storms.
- Make sure that water condensation can drain unhindered from the unit.
- Do not operate the air conditioner with wet hands. This may cause electric shock.
- Do not use device for any other purpose than its intended use.
- Do not climb onto or place objects on top of the outdoor unit.
- Do not allow the air conditioner to operate for long periods of time with doors or windows open, or if the humidity is very high.

**Explanation of symbols displayed on the indoor unit or outdoor unit:**

	<b>WARNING</b>	This symbol shows that this appliance used a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire.
	<b>CAUTION</b>	This symbol shows that the operation manual should be read carefully.
	<b>CAUTION</b>	This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.
	<b>CAUTION</b>	
	<b>CAUTION</b>	This symbol shows that information is available such as the operating manual or installation manual.

# OPERATING INSTRUCTIONS



## Indoor unit

1. Front panel
2. Air inlet
3. Air filter
4. Air outlet
5. Horizontal air flow grille
6. Vertical air flow louver(inside)
7. Display panel

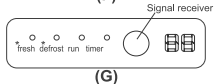
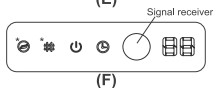
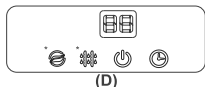
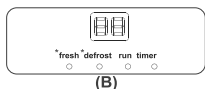
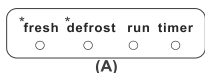
**NOTE:** The actual shape of the indoor unit you purchased may be slight different on front panel and display window.

## Outdoor unit

8. Connecting pipe
9. Connecting cable
10. Stop valve

### NOTE:

All the pictures in this manual are for explanation purposes only. Your air conditioner may be slightly different. The actual shape shall prevail.



## LED Display Window

### FRESH indication lamp(optional)

Lights up when Clean Air feature is activated.

### RUN indication lamp

This lamp illuminates when the air conditioner is in operation.

### TIMER indication lamp

Lights up during Timer operation.

### DEFROST indication lamp

(Enabled on cooling & heating models only):  
Lights up when the air conditioner starts defrosting automatically or when the warm air control feature is activated in heating operation.

### Temperature indicator

- Displays the temperature settings when the air conditioner is operational.
- Displays the malfunction code.

### Note:

1. \* Marked function / feature is available in Selected Models only.
2. A guide on using the infrared remote is not included in this literature package.

## Achieving Optimal Performance

- 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.
- Optimal performance for the COOL, HEAT, and DRY mode can be achieved in the following temperature ranges. When your air conditioner is used outside of these ranges, certain safety protection features will activate and cause the unit to perform less than optimally.

### Inverter Split Type

	COOL mode	HEAT mode	DRY mode
Room Temperature	17°C - 32°C (63°F - 90°F)	0°C - 30°C (32°F - 86°F)	10°C - 32°C (50°F - 90°F)
Outdoor Temperature	0°C - 50°C (32°F - 122°F)	-15°C - 30°C (5°F - 86°F)	0°C - 50°C (32°F - 122°F)
	-15°C - 50°C (5°F - 122°F) (For models with low temp. cooling systems.)		
	0°C - 60°C (32°F - 140°F) (For special tropical models)		0°C - 60°C (32°F - 140°F) (For special tropical models)

FOR OUTDOOR UNITS WITH AUXILIARY ELECTRIC HEATER  
 When outside temperature is below 0°C (32°F), we strongly recommend keeping the unit plugged in at all time to ensure smooth ongoing performance.

### Fixed-speed Type

	COOL mode	HEAT mode	DRY mode
Room Temperature	17°-32°C (63°-90°F)	0°-30°C (32°-86°F)	10°-32°C (50°-90°F)
Outdoor Temperature	18°-43°C (64°-109°F)	-7°-24°C (19°-75°F)	11°-43°C (52°-109°F)
	-7°-43°C (19°-109°F) (For models with low-temp cooling systems)		18°-43°C (64°-109°F)
	18°-54°C (64°-129°F) (For special tropical models)		18°-54°C (64°-129°F) (For special tropical models)

To further optimize the performance of your unit, do the following:

- Keep doors and windows closed.
- Limit energy usage TIMER ON and TIMER OFF functions.
- Do not block air inlets or outlets.
- Regularly inspect and clean air filters.

For a detailed explanation of each function, refer to the Remote Control Manual.

## Other Features

- **Auto-Restart**  
If the unit loses power, it will automatically restart with the prior settings once power has been restored.
- **Anti-mildew (optional)**  
When turning off the unit from COOL, AUTO (COOL), or DRY modes, the air conditioner will continue operate at very low power to dry up condensed water and prevent mildew growth.  
**To cancel the Anti-Mildew function immediately, press Power on/off key 2 more times after pressing power on/off key one time.**
- **Wireless Control (optional)**  
Wireless control allows you to control your air conditioner using your mobile phone and a Wireless connection.  
For the USB device access, replacement, maintenance operations must be carried out by professional staff.
- **Louver Angle Memory (optional)**  
When turning on your unit, the louver will automatically resume its former angle.
- **Refrigerant Leakage Detection (optional)**  
The indoor unit will automatically display "EC"  
The "timer" indicator light turns off and the "run" indicator light flashes 7 times when the unit detects refrigerant leakage.

- **Air Filter Reminder (optional)**

### Air Filter Cleaning Reminder

After 240 hours of use, the "run" & "timer" indicator lamps on the indoor unit will flash simultaneously and the display window on the indoor unit will flash "CL" (if applicable). This is a reminder to clean your filter. After 15 seconds, the unit will revert to its previous display.

To reset the reminder, press the LED button on your remote control 4 times, or press the **MANUAL CONTROL** button 3 times. If you don't reset the reminder, the "CL", "run" & "timer" indicator lamps will flash again when you restart the unit.

- **Air Filter Replacement Reminder (optional)**

After 2,880 hours of use, the "run" & "timer" indicator lamps will flash simultaneously for 10 times, then remain on for five seconds, and the display window on the indoor unit will flash "nF" (if applicable). This is a reminder to replace your filter. After that, the unit will revert to its previous display.

To reset the reminder, press the LED button on your remote control 4 times, or press the **MANUAL CONTROL** button 3 times. If you don't reset the reminder, the "nF", "run" & "timer" indicator lamps will flash again when you restart the unit.

For a detailed explanation of your unit's advanced functionality (such as TURBO mode and its self-cleaning functions), refer to the Remote Control Manual

## NOTE ON ILLUSTRATIONS

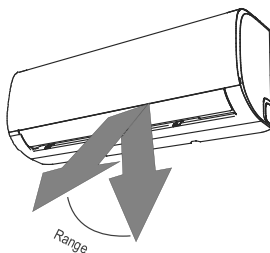
Illustrations in this manual are for explanatory purposes. The actual shape of your indoor unit may be slightly different. The actual shape shall prevail.

## . Setting Angle of Air Flow

### Setting vertical angle of air flow (optional)

While the unit is on, use the **SWING/DIRECT** button to set the direction (vertical angle) of airflow.

1. Press the SWING/DIRECT button once to activate the louver. Each time you press the button, it will adjust the louver by 6°. Press the button until the direction you prefer is reached.
2. To make the louver swing up and down continuously, press and hold the **SWING/DIRECT** button for 3 seconds. Press it again to stop the automatic function.



- ⚠ Caution:** Do not keep louver at too vertical an angle for long periods of time. This can cause water condensation to drip on your furnishings.

### Setting horizontal angle of air flow

The horizontal angle of the airflow must be set manually. Grip the deflector rod (See **Fig.B**) and manually adjust it to your preferred direction. For some units, the horizontal angle of the airflow can be set by remote control. Please refer to the Remote Control Manual.

### NOTE ON LOUVER ANGLES

When using COOL or DRY mode, do not set louver at too vertical an angle for long periods of time. This can cause water to condense on the louver blade, which will drop on your floor or furnishings. (See **Fig.A**)

When using COOL or HEAT mode, setting the louver at too vertical an angle can reduce performance of the unit due to restricted air flow.

Do not move louver by hand. This will cause the louver to become out of sync. If this occurs, turn off the unit and unplug it for a few seconds, then restart the unit. This will reset the louver.

Fig. A

### ! CAUTION

Do not put your fingers in or near the blower and suction side of the unit. The high-speed fan inside the unit may cause injury.

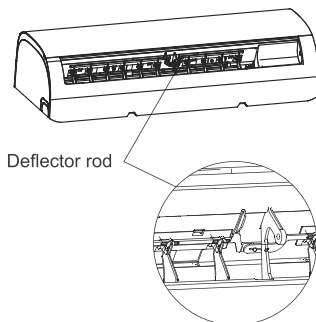


Fig. B

Sleep Operation

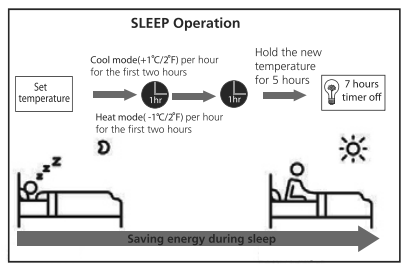
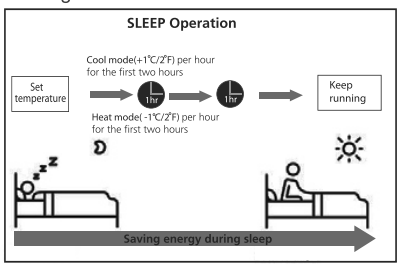
The SLEEP function is used to decrease energy use while you sleep (and don't need the same temperature settings to stay comfortable). This function can only be activated via remote control

Press the SLEEP button when you are ready to go to sleep. When in COOL mode, the unit will increase the temperature by 1°C (2°F) after 1 hour, and will increase an additional 1°C (2°F) after another hour. When in HEAT mode, the unit will decrease the temperature by 1°C (2°F) after 1 hour, and will decrease an additional 1°C (2°F) after another hour.

Note: The SLEEP function is not available in FAN or DRY mode.

For some units, the sleep feature will stop after 8 hours and the system will keep running with final situation.

For some units, the unit will turn off after 7 hours.



# Manual Operation (Without Remote)

# 2

## How to operate your unit without the remote control

In the event that your remote control fails to work, your unit can be operated manually with the **MANUAL CONTROL** button located on the indoor unit. Note that manual operation is not a long-term solution, and that operating the unit with your remote control is strongly recommended.

### BEFORE MANUAL OPERATION

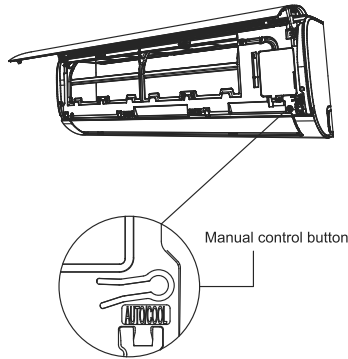
Unit must be turned off before manual operation.

To operate your unit manually:

1. Open the front panel of the indoor unit.
2. Locate the **MANUAL CONTROL button** on the right-hand side of the unit.
3. Press the **MANUAL CONTROL** button one time to activate **FORCED AUTO** mode.
4. Press the **MANUAL CONTROL button** again to activate **FORCED COOLING** mode.
5. Press the **MANUAL CONTROL button** a third time to turn the unit off.
6. Close the front panel.

## ! CAUTION

The manual button is intended for testing. Please do not use this function unless the remote is lost and it is absolutely necessary. To resume regular operation, use the remote control to activate the unit.



# Care and Maintenance

# 3

## Cleaning Your Indoor Unit

### BEFORE CLEANING OR MAINTENANCE

ALWAYS TURN OFF YOUR AIR CONDITIONER SYSTEM AND DISCONNECT ITS POWER SUPPLY BEFORE CLEANING OR MAINTENANCE.

### CAUTION

Only use a soft, dry cloth to wipe the unit clean. If the unit is especially dirty, you can use a cloth soaked in warm water to wipe it clean.

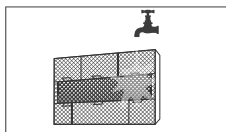
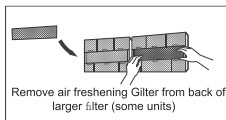
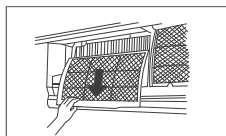
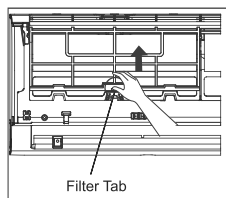
- Do not use chemicals or chemically treated cloths to clean the unit
- Do not use benzene, paint, thinner polishing powder or other solvents to clean the unit. They can cause the plastic surface to crack or deform.
- Do not use water hotter than 40°C (104°F) to clean the front panel. This can cause the panel to deform or become discolored.

## Cleaning Your Air Filter

A clogged air conditioner can reduce the cooling efficiency of your unit, and can also be bad for your health. Make sure to clean the filter once every two weeks.

1. Lift the front panel of the indoor unit.
2. First press the tab on the end of filter to loosen the buckle, lift it up, then pull it towards yourself.
3. Now pull the filter out.
4. If your filter has a small air freshening filter, unclip it from the larger filter. Clean this air freshening filter with a hand-held vacuum.
5. Clean the large air filter with warm, soapy water. Be sure to use a mild detergent.

6. Rinse the filter with fresh water, then shake off excess water
7. Dry it in a cool, dry place, and refrain from exposing it to direct sunlight.
8. When dry, re-clip the air freshening filter to the larger filter, then slide it back into the indoor unit.
9. Close the front panel of the indoor unit.



### CAUTION

Do not touch air freshening (Plasma) filter for at least 10 minutes after turning off the unit.

## ! CAUTION

- Before changing the filter or cleaning, turn off the unit and disconnect its power supply.
- When removing filter, do not touch metal parts in the unit. The sharp metal edges can cut you.
- Do not use water to clean the inside of the indoor unit. This can destroy insulation and cause electrical shock.
- Do not expose filter to direct sunlight when drying. This can shrink the filter.

## Air Filter Reminders (Optional)

### Air Filter Cleaning Reminder

After 240 hours of use, the display window on the indoor unit will flash "CL." This is a reminder to clean your filter. After 15 seconds, the unit will revert to its previous display

To reset the reminder, press the **LED** button on your remote control 4 times, or press the **MANUAL CONTROL** button 3 times. If you don't reset the reminder, the "CL" indicator will flash again when you restart the unit.

### Air Filter Replacement Reminder

After 2,880 hours of use, the display window on the indoor unit will flash "nF." This is a reminder to replace your filter. After 15 seconds, the unit will revert to its previous display

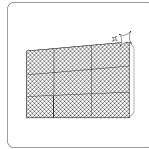
To reset the reminder, press the **LED** button on your remote control 4 times, or press the **MANUAL CONTROL** button 3 times. If you don't reset the reminder, the "nF" indicator will flash again when you restart the unit.

## ! CAUTION

- Any maintenance and cleaning of outdoor unit should be performed by an authorized dealer or licensed service provider.
- Any unit repairs should be performed by authorized dealer or licensed service provider.

## Maintenance – Long Periods of Non-Use

If you plan not to use your air conditioner for an extended period of time, do the following:



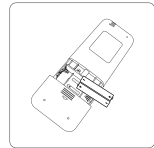
Clean all filters



Turn on FAN function until unit dries out completely



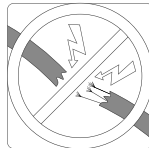
Turn off the unit and disconnect the power



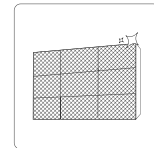
Remove batteries from remote control

## Maintenance – Pre-Season Inspection

After long periods of non-use, or before periods of frequent use, do the following:



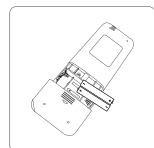
Check for damaged wires



Clean all filters



Check for leaks



Replace batteries



Make sure nothing is blocking all air inlets and outlets

# Troubleshooting

# 4

## ! SAFETY PRECAUTIONS

If **ANY** of the following conditions occurs, turn off unit immediately!

- . The power cord is damaged or abnormally worn.
- . You smell a burning odor.
- . A unit emits loud or abnormal sounds.
- . A power fuse blows or the circuit breaker frequently trips.
- . Water or other objects fall into or out of the unit.

**DO NOT ATTEMPT TO FIX THESE YOURSELF ! CONTACT SERVICE PROVIDER IMMEDIATELY!**

## Common Issue

The following problems are not a malfunctions and in most situations will not require repairs.

Issue	Possible Causes
Unit does not turn on when pressing ON/OFF button	The Unit has a 3-minute protection feature that prevents the unit from overloading. The unit cannot be restarted within three minutes of being turned off.
The unit changes from COOL/HEAT mode to FAN mode	The unit may change its setting to prevent frost from forming on the unit. Once the temperature increases, the unit will start operating in the previously selected mode again.
	The set temperature has been reached, at which point the unit turns off the compressor. The unit will continue operating when the temperature fluctuates again.
The indoor unit emits white mist	In humid regions, a large temperature difference between the room's air and the conditioned air can cause white mist.
Both the indoor and outdoor units emit white mist	When the unit restarts in HEAT mode after defrosting, white mist may be emitted due to moisture generated from the defrosting process.

Issue	Possible Causes
The indoor unit makes noises	A rushing air sound may occur when the louver resets its position.
	A squeaking sound may occur after running the unit in HEAT mode due to expansion and contraction of the unit's plastic parts.
Both the indoor unit and outdoor unit make noises	Low hissing sound during operation: This is normal and is caused by refrigerant gas flowing through both indoor and outdoor units.
	Low hissing sound when the system starts, has just stopped running, or is defrosting: This noise is normal and is caused by the refrigerant gas stopping or changing direction.
	Squeaking sound: Normal expansion and contraction of plastic and metal parts caused by temperature changes during operation can cause squeaking noises.
The outdoor unit makes noises	The unit will make different sounds based on its current operating mode.
Dust is emitted from either the indoor or outdoor unit	The unit may accumulate dust during extended periods of non-use, which will be emitted when the unit is turned on. This can be mitigated by covering the unit during long periods of inactivity.
The unit emits a bad odor	The unit may absorb odors from the environment (such as furniture, cooking, cigarettes, etc.) which will be emitted during operations.
	The unit's filters have become moldy and should be cleaned.
The fan of the outdoor unit does not operate	During operation, the fan speed is controlled to optimize product operation.
Operation is erratic, unpredictable, or unit is unresponsive	Interference from cell phone towers and remote boosters may cause the unit to malfunction. In this case, try the following: . Disconnect the power, the reconnect. . Press ON/OFF button on remote control to restart operation.

NOTE: If problem persists, contact a local dealer or your nearest customer service center. Provide them with a detailed description of the unit malfunction as well as your model number.

## Troubleshooting

When troubles occur, please check the following points before contacting a repair company.

Problem	Possible Causes	Solution
Poor Cooling Performance	Temperature setting may be higher than ambient room temperature	Lower the temperature setting
	The heat exchanger on the indoor or outdoor unit is dirty	Clean the affected heat exchanger
	The air filter is dirty	Remove the filter and clean it according to instructions
	The air inlet or outlet of either unit is blocked	Turn the unit off, remove the obstruction and turn it back on
	Doors and windows are open	Make sure that all doors and windows are closed while operating the unit
	Excessive heat is generated by sunlight	Close windows and curtains during periods of high heat or bright sunshine
	Too many sources of heat in the room (people, computers, electronics, etc.)	Reduce amount of heat sources
	Low refrigerant due to leak or long-term use	Check for leaks, re-seal if necessary and top off refrigerant
SILENCE function is activated(optional function)	SILENCE function can lower product performance by reducing operating frequency. Turn off SILENCE function.	

Problem	Possible Causes	Solution
The unit is not working	Power failure	Wait for the power to be restored
	The power is turned off	Turn on the power
	The fuse is burned out	Replace the fuse
	Remote control batteries are dead	Replace batteries
	The Unit's 3-minute protection has been activated	Wait three minutes after restarting the unit
	Timer is activated	Turn timer off
The unit starts and stops frequently	There's too much or too little refrigerant in the system	Check for leaks and recharge the system with refrigerant.
	Incompressible gas or moisture has entered the system.	Evacuate and recharge the system with refrigerant
	The compressor is broken	Replace the compressor
	The voltage is too high or too low	Install a manostat to regulate the voltage
Poor heating performance	The outdoor temperature is extremely low	Use auxiliary heating device
	Cold air is entering through doors and windows	Make sure that all doors and windows are closed during use
	Low refrigerant due to leak or long-term use	Check for leaks, re-seal if necessary and top off refrigerant
Indicator lamps continue flashing	The unit may stop operation or continue to run safely. If the indicator lamps continue to flash or error codes appear wait for about 10 minutes. The problem may resolve itself. If not, disconnect the power, then connect it again. Turn the unit on.	
Error code appears in the window display of indoor unit:	If the problem persists, disconnect the power and contact your nearest customer service center	
<ul style="list-style-type: none"> <li>• E0, E1, E2...</li> <li>• P1, P2, P3...</li> <li>• F1, F2, F3...</li> </ul>		

**NOTE:** If your problem persists after performing the checks and diagnostics above, turn off your unit immediately and contact an authorized service center

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



### PROPER HANDLING OF THE AIR CONDITIONER

Under the e-waste Management and Handling Rules, 2011 ("e-waste Rules"), it is necessary for the e-waste to be properly channelized till the stage of its recycling and final disposal. Improper handling and dumping of e-waste in landfills contaminates the soil and the water resources. Hence, it is imperative that the electrical and electronic equipments that are rendered useless on account of the end of its life or any accidental breakage or damage, is disposed off in a manner that is not detrimental to the conservation of the environment and does not cause any health hazard to any living beings. With a view to attain this objective, certain responsibilities have to be borne by all the concerned stakeholders including the producer, dealer, dismantler, recycler and also the consumer, involved in the production, use and disposal of the electronic equipments.

Please be aware that you are a responsible consumer under the e-waste rules. Kindly take note of the symbol below which connotes that you should not dump any of the electrical and electronic equipments including Carrier air-conditioners in garbage bins, neither should you dispose off the same through any scrap dealers.



### HAZARDOUS CONSTITUENTS

Most of the components used in our air-conditioners do not contain any hazardous substances. However, certain components contain trace of lead and hexavalent chromium more than the permitted levels of concentration (0.1%) prescribed under the e-waste Rules and it shall be our endeavour to reduce the concentration level of the aforementioned substances to the levels prescribed by the e-waste rules by May 2014.

### COLLECTION CENTRES

We have tied up with government authorised e-waste recycler for facilitating our channel partners / customers so that they can dispose of e-waste products and also defective spare parts. You may call on toll free number 1800 4193 333 or visit our website for details of collection centers.

## **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 Midea.

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 4193 333** to register your request for Annual Maintenance services or you can write to us on [mideacare@carriermidea.com](mailto:mideacare@carriermidea.com)

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## WARRANTY TERMS AND CONDITIONS

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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 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

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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, lightning 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

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 :



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**WARRANTY**

Carrier Midea India Private Limited

Midea 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 MIDEA 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: 0832-2447028, 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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