

FOREWORD

Thanks for choosing Walton Air Conditioners in the modern age of science and technology. In your daily life, air conditioners will provide the coolness and tranquility you need. We are proud to say that the world's most advanced technology, machinery, and raw materials are used to manufacture our air conditioners. You will be glad to know that some of its special features include reliable performance and attractive design with tasteful different models. Walton always ensures environment friendly, low noise, energy efficient and high efficiency safe air conditioning. You will need an air conditioner user manual and instructions, as well as the necessity of maintenance and proper directions. Therefore, please read the user manual carefully before running the air conditioner. Proper use and maintenance will ensure the best performance of the air conditioner and the longevity of the components. This user manual contains the latest technical information and safety instructions. Consider it as an integral part of the air conditioner and retain it for future use. The authority reserves all rights of this user manual. Any reprinting or copying of this manual without the written permission of the authority is punishable by law. The Authority reserves the right to change the book's contents without any prior notice.

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WALTON

WALTON RAC

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STEPS TO SELECT THE RIGHT CAPACITY AIR CONDITIONER

According to the size of the customer's room the BTU Air Conditioner should be selected according to the following criteria.

Capacity Subject	3517 WATT (12000 BTU/hr)	5275 WATT (18000 BTU/hr)	7034 WATT (24000 BTU/hr)	8792 WATT (30000 BTU/hr)
Room Size (Cubic Feet)	The highest 1200	The highest 1800	The highest 2400	The highest 3000
Room Size (Cubic Meter)	The highest 34	The highest 51	The highest 68	The highest 85
Room Size (Square Feet) Considering 10 feet height	The highest 120	The highest 180	The highest 240	The highest 300

For the room size given in the table, it is preferred to apply AC with better performances in the following areas:

- Location of customer's room (top floor/multiple walls of room facing sun/walls in glass hall).
- If the number of doors and windows and number of people in the room is more than usual.
- If the wattage of different electric appliances used with inside the room (lights, fans, TV, fridge) is higher than normal.

Determining Room Size

The size of a room can be determined by multiplying the length (lengthwise), width (side) and height (top to bottom) of a room in feet or meters.

Example

If the length of a room is 12 feet, width is 12 feet and height is 10 feet, the size of the room will be $(12 \times 12 \times 10 = 1440)$ 1440 cubic feet. In this case you need to select AC of 18000 BTU/hr (5275 Watt) model or if the length of a room is 4 meters, width is 4 meters and height is 3 meters then the size of the room will be $(4 \times 4 \times 3 = 48)$ 48 cubic meters. In this case you need to select AC of 18000 BTU/hr (5275 Watt) model.

CONNECTION OF ELECTRICITY

Before installing the AC, ensure the right cable size and circuit breaker, which have been used in the AC. Select cable and circuit breaker for different models of AC according to the table given below:

Capacity Subject	3517 Watt (12000 BTU/hr)	5275 Watt (18000 BTU/hr)	7034 Watt (24000 BTU/hr)	8792 Watt (30000 BTU/hr)
Circuit Breaker Rating (Amp)	20	20	25	32
Cable Size (Rm)	1.0	1.5	2.5	3

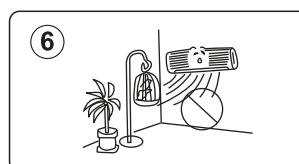
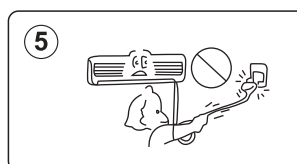
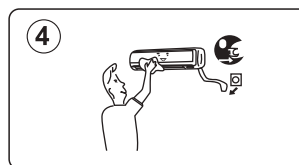
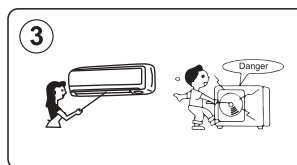
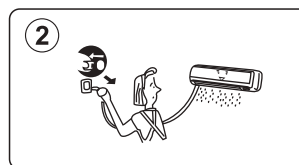
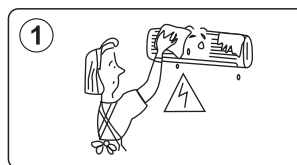
Note:

- ❑ Do not connect the main power supply with added wire. If the length of the cable is not sufficient, make a contact with manufacturer/approved service agents. It may cause an electric shock or fire explosion due to poor connection.
- ❑ In case of AC, the rated voltage is: Single phase 230 volts AC at 50 Hz.
- ❑ For ensuring better performance, make sure the supply voltage is within 130-280 volts.
- ❑ At the time of connecting cable between indoor and outdoor unit, you have to be concerned about the wiring diagram attached to the unit.
- ❑ Use advanced 15A 3 pin socket for the connection of electricity on AC.

SAFETY PRECAUTIONS

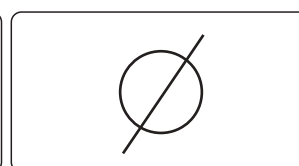
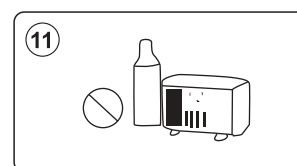
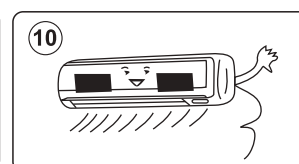
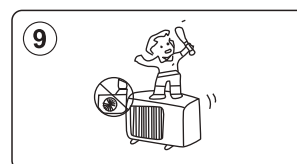
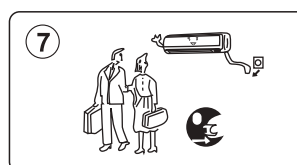
Before using the unit, please read Safety Precautions and use carefully. Since these cautions are important for safety, be sure before applying them.

1. Do not operate or touch the switches with wet hands. it may cause an electric shock.
2. When an abnormality (ex. smell of burning, evokes smoke, terrible sound) occurs, turn off the air conditioner immediately and disconnect the power plug or turn off the circuit breaker. Contact with service center/expert.
3. Do not enter hands or any type of things through air outlet. Since both sides of the fan rotate at high speed, it may cause an injury.
4. When the unit is to be cleaned, switch off and disconnect the power plug or turn off the circuit breaker.
5. Do not pull the power cord. Hold the power plug to disconnect it. The core wire of the power cord may be torn and it may cause a fire.
6. Do not keep a pet or house plant where airflow will be directly exposed. This could injure the pet or plant.
7. Clean your display screen with soft fabric/cloth. Do not use water or any cleaning chemicals. It may damage your display.



SAFETY PRECAUTIONS

8. When the unit is not going to be used for a long period of time, disconnect the power plug or turn off the breaker. If specks of dirt are not cleaned, may be accumulated and causes performance reduction.
9. Do not apply insecticide or flammable spray. It may cause fire or deformation of the cabinet.
10. Do not stand on the outdoor unit and put nothing on it. It may cause an injury through dropping or falling.
11. Make sure the drain hose pipe is not blocked by anything. Water may fall from the unit if the drain hose pipe is incomplete or blocked.
12. Do not install the unit where flammable gas could leak. If gas leaks and spreads around the unit, it may cause an explosion.



- ❑ If you don't get normal cold or heat, turn off the Air Conditioner and contact with service center.
- ❑ If any malfunction, please ask for help from the manufacturer, service agent or any qualified person. This appliance is not intended to use by physically or mentally impaired persons including children or people with a lack of experience and knowledge. Use the appliance under the supervision of any concerned person.

FOR BETTER PERFORMANCE AND SAVING ELECTRICITY

Do not make your room too cool. It might be harmful to your health. According to **ASHRAE**, set the room temperature to 25 °C which is conducive to health.

Use heavy curtain on door and window

The use of heavy curtain on door and window to avoid direct sunlight that helps to keep the room cool for longer. For better cooling use low temperature room and save electricity.

Maintain proper airflow in the room

Adjust louver and vane of indoor unit to maintain proper airflow in your desired place and use airflow as much as necessary. Using proper airflow saves electricity.

Run the AC unit in sleep mode

Run the air conditioner in sleep mode to cool the room at night when sleeping to save electricity.

Fan speed control of indoor unit

Keep the blower fan of indoor unit at auto speed Mode to maintain a comfortable cooling and save power.

Placement of outdoor unit

Place the outdoor unit in a shaded area and away from direct sunlight will save energy.

Placement of furniture and other items

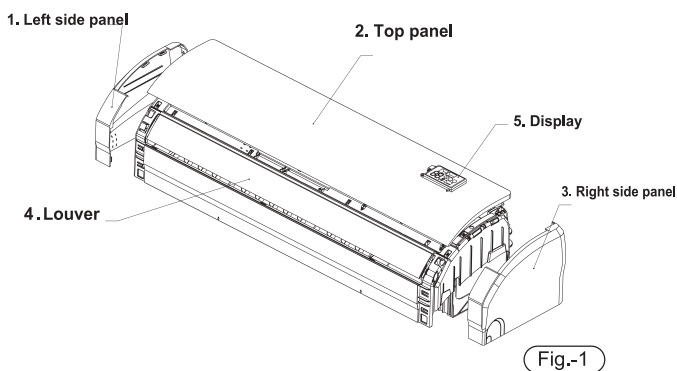
Placing furniture directly in the path of airflow obstructs the airflow and reduces cooling effect. Keeping direct airflow will save electricity avoiding any obstacles.

Unnecessary electric bulbs & electric appliances

Switch off unnecessary electric bulbs and electric appliances. Each electric bulb and electric appliances release heat inside the room. The air conditioner has to use additional electricity to overcome this heat to achieve the desired cooling.

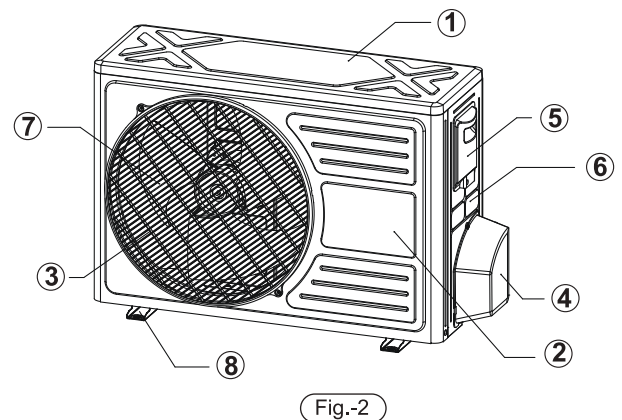
PARTS IDENTIFICATION

Indoor Unit



1	Left Side Panel
2	Top Panel
3	Right Side Panel
4	Louver
5	Display

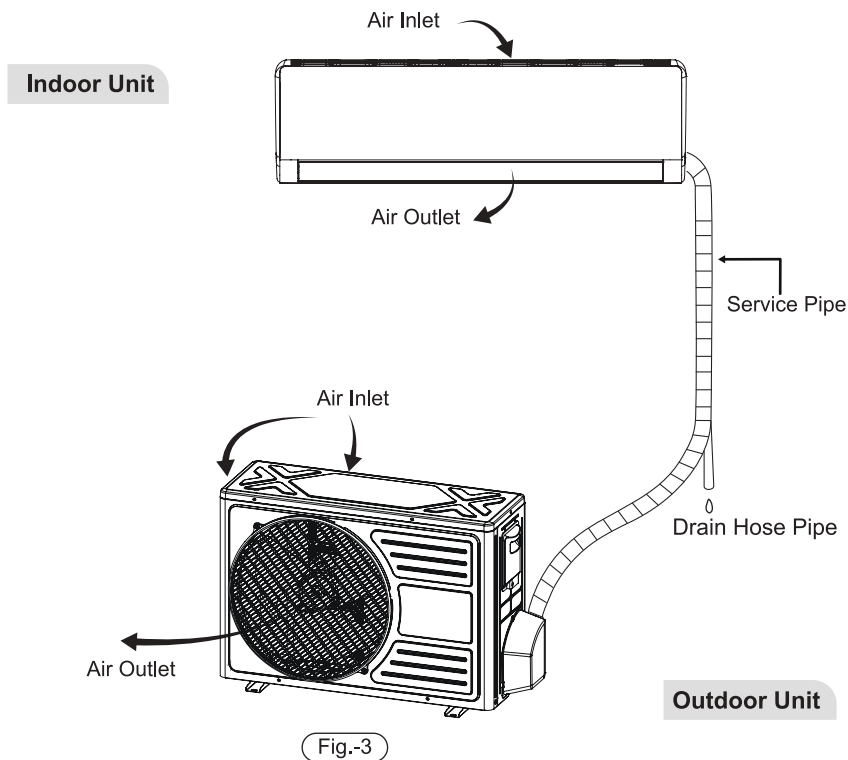
Outdoor Unit



1	Top panel
2	Front panel
3	Front net
4	Valve stand cover
5	Service handle

6	Valve side panel
7	Fan
8	Base foot

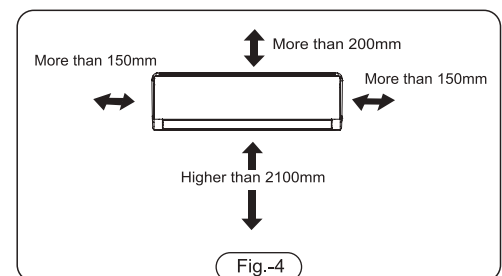
CONNECTING INDOOR AND OUTDOOR UNIT



INSTALLATION OF INDOOR UNIT

Selecting Installation Place

1. Ensure minimum distance as shown in the barrier. (Figure-04)
2. The wall must be solid to support the indoor unit.
3. There should be no barrier to the air circulation between air inlet and outlet.
4. The front panel of the unit should be opened easily.
5. If the height of the room is more than 2100 millimeters, then the indoor unit should be 2100 millimeters higher from the floor. Keeping more than 200 mm at the upper side.



Setting Up Hanging Plate

1. After selecting the installation location, the hanging plate should be leveled using a water leveler, and its screw positions marked before fixing it in the designated area.
2. Next, the drain hose pipe, evaporator inlet, and outlet pipes be positioned to the right or left of the hanging plate (depending on installation location and other factors) along the reference line. Installer should follow the dimensions provided in Figure-5. The center of the hole is to be drilled 40mm above the lower edge of the hanging plate and the recommended drilling diameter should be 70mm.

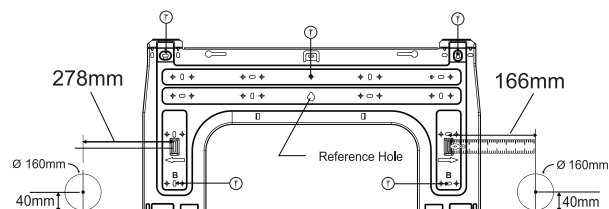
INSTALLATION OF INDOOR UNIT

Placing Hanging Plate

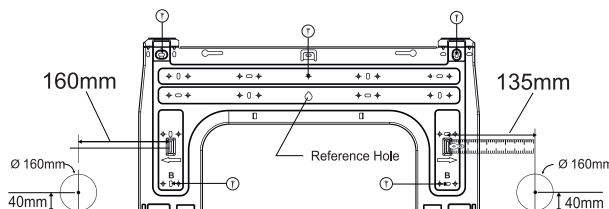
- The hole, in the center of the hanging plate should have the hanger placed there and the attaching screw should not be tightened fully. Two screws are placed on the right and left sides, but these should not be tightened entirely. Then the plate should be checked with a water leveler to ensure it is at the correct level and the remaining screws should be tightened securely.
- Before drilling the hole for the inlet-outlet pipe, we should locate the position very carefully. To do this, need to draw two straight lines: one parallel to the lower hanger surface and another line perpendicular. The distance and measuring tape anchoring location are mentioned in the drawing. This distance is required for locating the perpendicular line a distance away from the anchoring position. Now we need to draw a 70mm circle. The center of the circle will be 40mm above the intersection line.

Special Note

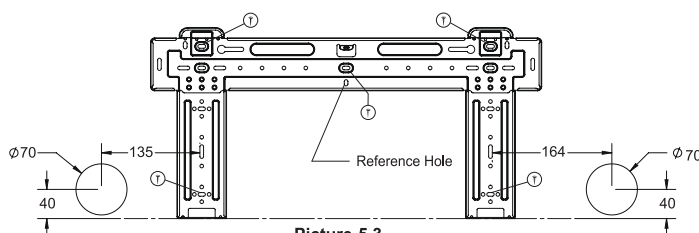
The plate has to be placed on the wall with the help of 5 screws. (Additional screw can be mounted if required). After setting up the plate, it has to be checked out again by water leveler. The hole (70 mm) has to be done from inside towards outside by 10 degree downward.



Picture-5.1
Applicable for all 2 Ton models and extreme saver models above 1 ton



Picture-5.2
Applicable for all models above 1.5 Ton



Picture-5.3
Applicable for all models above 1 ton deferent from extreme saver model.

FIXING DRAIN HOSE PIPE

- Insert the pipe into the hole of 70 mm. (Figure-6)
- If an extra hose pipe is needed which will go through the room, wrap insulation tape on that pipe. Otherwise, the extra pipe will sweat.
- Drainpipe has to be set downwards for better drainage system. Otherwise, the regular water flow will be disrupted.
- While installing the drain hose, it needs to be careful that the drain hose is not blocked or bent.
- Inlet and outlet pipe of indoor unit can be bent in the way shown in the figure-7.
- During bringing out the pipe, the plastic part of right or left side can be cut as needed according to Figure-8.

- ☐ Section 1: Only for passing wire
- ☐ Section 2: For passing wire and inlet-outlet/drain pipe
- ☐ Section 3: For passing wire, inlet-outlet and drain pipe

- Inlet and outlet pipe of the evaporator has to be brought out in the exact way and have to wrap up with binding belt for bringing out through the hole of 70 mm.
- After that, set indoor unit on the 2 of upper hooks on the hanging plate and check hook are in correct position.
- Then, fix indoor unit with 2 pcs of lower side hooks by pressing down side of the indoor unit. Be confirmed indoor unit attachment with hook is ok by pulling it out.
- Finally, check indoor leveling by water level.

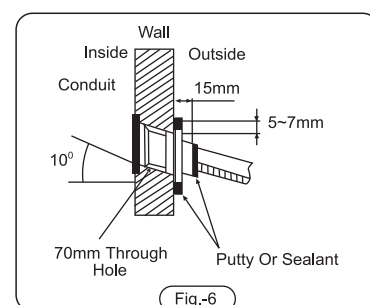


Fig.-6

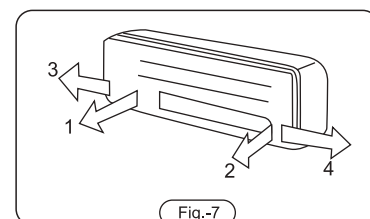


Fig.-7

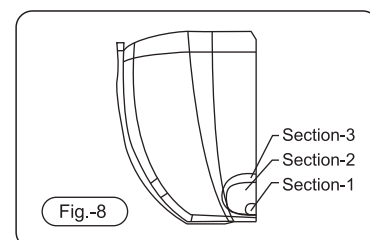
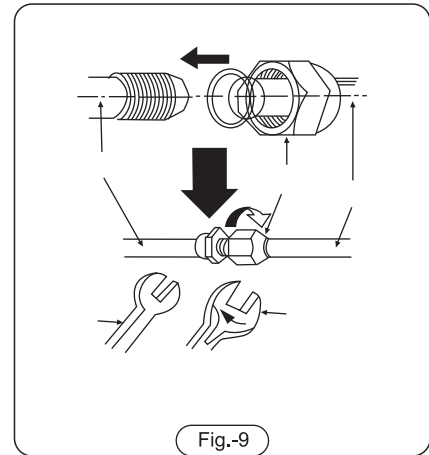


Fig.-8

CONNECTION OF PIPE

1. Pull out 2 (two) service pipes from the outdoor unit package & straighten the pipes.
2. Connect the flare plugs of indoor unit with nut of service pipe. Use torque wrench as per torque mentioned in the following table for the connection of pipe plugs and nuts.

Piping Size (mm)	Torque (N.M)
Ø 6	18
Ø 9.52	25
Ø 12	35
Ø 15.88	55

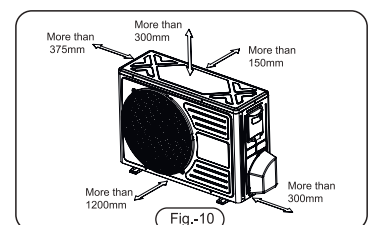


Note: Applying too much pressure may break the nut or damage the refrigerant tube. Do not use more torque than the torque given in the above table.

INSTALLATION OF OUTDOOR UNIT

Fix the Outdoor Set

1. There must be sufficient space around the outdoor unit. (Figure -10)
2. The place must be capable to support the unit and the vibration and sound level could not be increased.
3. In the regular movement of the fan, there must not be any interruption of air.
4. There should not be any combustible gas.
5. Make sure the drained water does not create any problem.



Installation of Unit

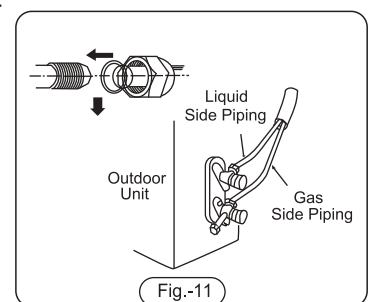
After the selection of the place, the position has to be fixed and marked to insert 4 royal bolts /Anchor bolts and has to be marked.

Drill 4 holes in the marked position to fix royal bolts and has to be tightened them properly for avoiding the vibration and sounds.

Connection of Service Pipes

1. To connect the service pipe with the valve, the flare part of the service pipe should be attached with the valve.
2. Tighten the nut with a torque wrench according to below information.

Piping Size (mm)	Torque (N.M)
Ø 6	18
Ø 9.52	25
Ø 12	35
Ø 15.88	55



INDOOR VACUUM WORKING PROCESS

After Connecting indoor and outdoor unit with service pipe. Follow the below instructions to do vacuum before releasing refrigerant from outdoor unit :

1. Connect one of the charge hose of the manifold gauge to suction valve & other hose pipe to the vacuum pump.
2. Open the Low Pressure side of the manifold gauge & keep the High Pressure side closed.
3. Turn on the vacuum pump & run the vacuum for 25 minutes.
4. Close the Low Pressure side of the manifold gauge, and turn off the vacuum pump.
5. Wait for 5 minutes, then check that there has been no change in system pressure.
6. Perform a leak check, repair and again vacuum it if system's pressure is changed.
7. Release the gas in the system if there is no change in pressure in the system.
8. Remove the charge hose from the service port.

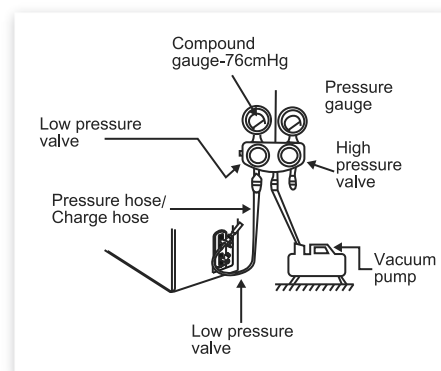


Fig -12

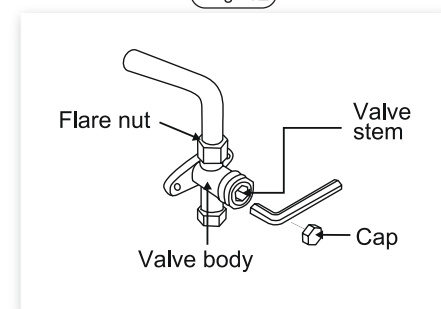
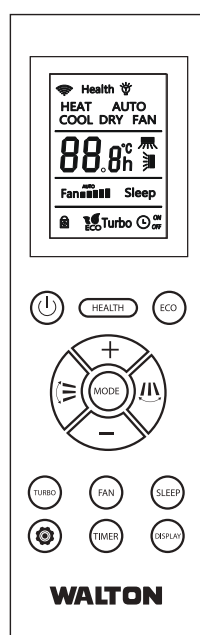
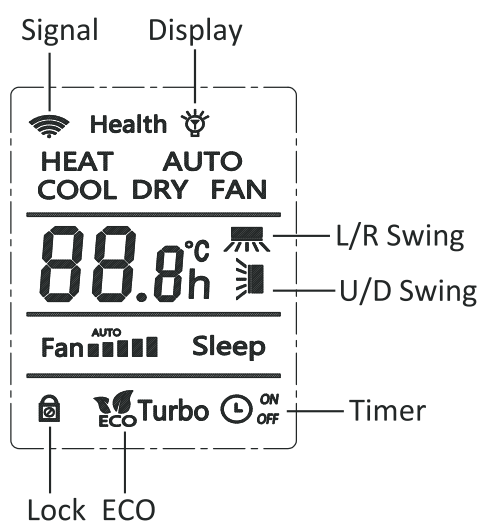


Fig -13

FUNCTIONS OF REMOTE CONTROLLER



In the context of Remote, the modes can be symbolic for specific models: Cool: ❄️ Heat: ☀️ Dry: 💧 Fan: 🌀 Auto: ⚙️ Health: 🌿 Turbo: 🚀 Sleep: 😴

FUNCTIONS OF REMOTE CONTROLLER

Installation of Batteries

1. Insert the batteries before using the remote controller.
2. Remove the battery box cover.
3. Insert two AAA (1.5V) type batteries into the remote controller. Make sure that '+' and '-' of batteries are inserted in exact order. Never use any rechargeable battery.
4. Close the cover.

Precautions of Using Remote Controller

1. Do not press the buttons with sharp edged objects like pen & pencil. It may damage the buttons.
2. Do not pour any liquid flow into remote controller. It may cause damage to the circuit of the remote controller.
3. Do not place the remote controller or expose it to direct sunlight or any heating source. In that case, the durability of the remote control can be decreased.
4. Remove the batteries while not using the remote controller for a long period of time. It will ensure the longevity of batteries and the remote controller.
5. Point the remote controller towards the receiver/display of the AC.
6. The internal distance between receiver/display and the remote control must be 8 meters or less than that.
7. There should not be any barrier between receiver/display and the remote controller.
8. Do not drop or throw away the remote control.
9. Don't use old/used battery.

FUNCTIONS OF REMOTE CONTROLLER

- POWER** : Press "⏻" button for turning on or Off the AC. When the AC is inactive, only the setting mode will be displayed.
- TEMPERATURE** : Press this "+, -" button for adjusting temperature. The range of temperature is 16-31 degree Celsius. For observing temperature in Fahrenheit, press "℉" and "— " button for 3 seconds all together.
- MODE** : Press this "MODE" button for selecting the desired mode. You can choose anyone of the following modes: Cool, Heat, Dry, Fan & Auto.
- ECO** : Press this "ECO" button for choosing "Energy Saving Option." (Not applicable for all models).
- HEALTH** : Press "HEALTH" key to activate or deactivate "Health" function. [for applicable model]
- TIMER** : Press this "TIMER" button for turning on or off the AC with required time set. Select time using "+, -" button during flashing of the timer digit in the remote controller.
- LOCK** : Press & Hold "TIMER" key for 3 seconds to lock/unlock remote control.
- FAN** : Press this "FAN" button for selecting the desired fan speed from Low/Medium/High/Auto.
- SLEEP** : Press this "SLEEP" button for the activation/deactivation sleeping mode.
- DISPLAY** : Press "DISPLAY" key to activate/deactivate display LED.
- L/R Swing** : Press this "↔" button for fixing louver movement of indoor unit into the right and left direction. [for applicable model]
- U/D Swing** : Press this "↕" button for fixing louver movement in upwards and downwards.
- TURBO** : Press this "TURBO" button for faster cooling process. This function will not work if "SLEEP" or "ECO" mode is active.
- Room Temperature** : Press and hold this "⊗" button for 3 seconds to check indoor Room Temperature. "Room Temperature" will be shown in AC display while the AC is on Cooling Mode, Dry Mode and Heating Mode (Applicable Heating Model only).

FUNCTIONS OF REMOTE CONTROLLER

Cool Mode

1. Connect the power supply and press "⏻" to start the unit.
2. Press "MODE" button to select the cooling process until "COOL" or "❄️" is displayed in the remote controller.
3. Press "+, -" to adjust the temperature.
4. Press "FAN" button to select the fan speed.
5. Press "↺" and "↻" to select the air direction and state of airflow. [↺ for applicable model]
6. Press "TURBO" button for quick cooling process.

Note: If ECO & ECO Button is active, TURBO function will not work.

Heat Mode (Only for Heating & Cooling AC)

1. Connect the power supply and press "⏻" to start the unit.
2. Press "MODE" button to select the Heating process until HEAT or "🔥" is displayed in the remote controller.
3. Press "+, -" to adjust the temperature.
4. Press "FAN" button to select the fan speed.
5. Press "↺" and "↻" to select the air direction and state of airflow. [↺ for applicable model]
6. Press "TURBO" button for quick Heating process.

Note: If ECO & ECO Button is active, TURBO function will not work.

FUNCTIONS OF REMOTE CONTROLLER

Fan Mode

1. Connect the power supply and press "⏻" button to start the unit.
2. Press "MODE" button to select air ventilation process until "FAN" or "🌀" is shown in the display of the remote controller.
3. Press "FAN" button to select the fan speed.
4. In "FAN" mode, no temperature will be displayed in the remote controller.
5. Press "↺" and "↻" button to select the direction of airflow. [↻ for applicable model]

Dry Mode

1. Connect the power supply and press "⏻" button to start the unit.
2. Press "MODE" button to select drying process until "DRY" or "☀️" is shown in the display of the remote controller.
3. Press "↺" and "↻" button to select the direction of airflow. [↻ for applicable model]
4. In DRY mode, no temperature will be displayed in the remote controller.
5. In DRY mode, fan speed cannot be adjusted, always remains in low mode.

Auto Mode

Press "MODE" button for the selection of auto mode until this icon "AUTO" or "🔄" is displayed in the remote controller.






Room Temperature	Mode	Set Temperature
Tr ≥ 25°C	Cool	25°C
20°C ≤ Tr < 25°C	Fan	25°C
Tr < 20°C	• Heat Mode for Cooling & Heating Model • Fan Mode for Cooling Only Model	25°C

Timer On/Off


1. Timer Off: Press "TIMER" button when AC is on. 0.5 h "⌚ OFF" will be displayed in the remote controller. Set the desired time within a break of 30 minutes. Press "+, -" button for setting time more or less. After the expiration of the setup time, AC will be turned off immediately.
2. Timer On: Press "TIMER" button when AC is off. 0.5 h "⌚ ON" will be displayed in the remote controller. Set the desired time within a break of 30 minutes. Press "+, -" button for setting time more or less. After the expiration of the setup time AC will be turned on immediately.

FUNCTIONS OF REMOTE CONTROLLER

Louver and Vane Function

1. The direction of the airflow towards upwards and downwards will be adjusted by louver. Press "" button to adjust. At certain position of louver movement, again press "" button. In that case louver will be fixed in the desired position resulting directional airflow.
2. The right and left sided airflow will be adjusted by vane. Press "" button for the adjustment. At certain position of movement, again press "". In that case vane will be fixed in the desired position resulting directional airflow. [ for applicable model]
3. Do not turn the louver and vane by hand. Otherwise, stepper motor can be damaged and louver/Vane will loose the proper place being presented during operating with the remote controller.

Sleep Function

1. Sleep function will work on cool mode only.
2. Press "**SLEEP**" sleep button to active/deactive sleep function.
3. After activation of sleep function "**Sleep**" or "" will be displayed on the remote controller.
4. The set temperature will be increased with the passage of time automatically.
5. This mode is suitable for sound sleeping.

Trial Operation

1. Turn on Main Switch.
2. Turn the remote controller towards the display of the unit and press on /off button, if you hear 'beep' sound, then the remote controller is working.
3. Select Cool mode with the remote controller, check whether cool air is coming out or not.
4. Select Heat mode with the remote controller, check whether hot air is coming out or not. (If applicable)
5. Select the fan speed low, medium and high with the remote controller. The blower will rotate in low, medium and high speed.
6. Check the up down and right left louver with the remote controller to ensure the exact movement.
7. Check TIMER OFF/TIMER ON with the remote controller.

KIDS MODE

Kids Mode Function

Effectiveness

The purpose of this function is to ensure kids get a comfortable environment in the room when the AC is turned on.

Operation

This function works in "Cool" mode only. In order to activate the function, enter "Cool" mode and press "Turbo" 4 times. The AC display will show the "Cd" icon as long as the function is in effect.

Way to stop the Function

Pressing any of the below buttons will stop the Kids Mode Function -

1. "Mode" button
2. "Fan" button
3. "Health" button
4. "Turbo" button
5. "Up-Down Swing" button

Attention

1. The fan speed will be low when Kids Mode is active.
2. "Health" mode will be activated too.
3. The louver will be at a minimum angle.

SILENT MODE

Functionality

Silent mode maintains a quiet environment in the room by reducing the noise level of the air conditioner. This mode is especially useful when sleeping, reading a book, or doing activities where even slight noise can be disturbed.

Procedure

Press and hold the "Fan" button on the remote for 3 seconds to enter silent mode. The "Fan Speed" section on the remote display will only show "Fan".

Method to Exit Function

Press the "Fan" button on the remote to exit silent mode.

Notable

1. Silent mode will work in COOL, AUTO, FAN, TURBO, SLEEP & HEAT (Applicable only for Hot and Cool AC) modes.
2. TURBO mode will not work during silent mode.
3. Running the air conditioner in silent mode for a long time may take time for the room temperature to reach the set temperature. In this case, the suggestion is to enter the silent mode after the room has cooled down enough.

ECO Mode

1. Press the "ECO" button to enter power saving mode.
2. Remote display will show icon.

Note: "ECO" mode will not work if "TURBO" mode is ON.

AUTOMATIC AC ON/OFF & AUTO DRY FUNCTION

Automatic AC On/Off Function

Effectiveness

The purpose of this function is to ensure whether your AC will automatically start or not after power failure.

Operation

Automatic AC On

1. This function works in all modes. Enter "Cool" mode and press the "Turbo" button six times to activate the function.
2. The AC display will show "Ar" for 5 seconds and beep 4 times when the function is activated.
3. As a result, the AC will automatically start upon power return.

Automatic AC Off

1. Press the "Turbo" button six times again to stop this function.
2. The AC display will not show "Ar" this time but will beep 4 times.
3. As a result, the AC will no longer automatically start upon power return.

Auto Dry Function

Effectiveness

The purpose of the function is to evaporate the water inside of the AC to keep it odourless.

Operation

1. This function works in "Cool" and "Dry" mode only.
2. If the AC is turned off using the remote controller while in "Cool"/"Dry" mode, the compressor inside will be turned off but the indoor blower will be active for the next three minutes to evaporate the water inside of the AC to keep it odourless.
3. In the first 81 seconds of every three minutes, the IDU will display "dr". From the next 99 seconds until 0, it will count, and the AC will be completely turned off. Consequently, any water retained in the evaporator will evaporate, leaving the AC odor-free inside.

Attention

1. This function will only work if the AC is turned off using the remote controller.
2. The fan speed will be low during the process.

FROST CLEANING FUNCTION

(Only for selected models)

Effectiveness

The purpose of this function is to clean dust automatically from the indoor heat exchanger (Evaporator) of the Air Conditioner.

Operation/Working Process

1. This function only works in Cool Mode.
2. To start Frost Cleaning function, select Cool Mode and press the "Sleep" button four (4) times.
3. The AC Display will show "CL" after the function starts.
4. After starting the function, it will continue for 23 minutes and no other function will work during this period.

Way to Stop the Frost Cleaning Function

1. The AC will automatically come to its normal function when the Frost Cleaning process is finished.
2. Please do not press any button until the AC automatically returns to its normal function.

Important Observation

1. After starting the Frost cleaning process, the indoor fan will be switched off but the compressor will remain working.
2. During this process temperature of the Indoor Heat Exchanger (Evaporator) will decrease rapidly and ice will begin to freeze soon.
3. After some times the blower fan will run in low-speed. Then after shortly the compressor will be turned off but the fan will continue to run in low-speed then in high-speed. Thus, the ice of the Indoor evaporator FIN will be melted and dust will be cleaned.
4. The Frost Cleaning function will run for 23 minutes. "CL" signal shown on the display will be off after the function finish and then the AC will return to its normal operating mode.
5. Effects of Indoor Heat Exchanger (Evaporator) cleaning will vary depending on the environment of the Outdoor unit.

[Note: Frost Cleaning function will only be applicable when the surrounding temperature of the Indoor and Outdoor unit is above 25 degrees.]

OFFLINE VOICE CONTROL FUNCTION

(Only for selected models)

Offline Voice Control

1. AC can operate only by using listed voice command without remote control.
2. AC is in two modes (Standby mode and Active mode) when the power is turn on. In this condition by giving voice command of "Hello Walton" the AC will be activated.

*Standby mode: No voice command will be accepted in this mode.

*Active mode: Voice command is accepted in this mode.

To switch on Active mode from Standby mode through Voice Command

1. AC will first be in standby mode when the power cable is connected/power switch is on.
2. Only by giving the "Hello Walton" Voice Command, the AC will come to in Active mode.
3. The AC will start by giving command of "AC Start" after activating the Active mode.
4. In "Active mode" if no command is given within 10 seconds the AC will automatically shift to "Standby mode".
5. After that, the AC can be operated by giving any command from the Voice command list.

Cautions

The AC may not detect the Voice command if talking loudly near the AC or the TV volume is high or playing musical instruments.

Important Observation

• After giving a voice command, the AC detects the command and gives a reply against that command. Another command can be given after 2 seconds of the reply.

• If any inapplicable command is given to the AC, "This setting is not available in this current mode" will be replied. For example-

*Saying other commands without starting the AC.

*Try to change set temperature from Fan mode, Dry mode, Auto mode.

*Try to On/Off Sleep Mode from Fan mode, Dry mode, Auto mode.

Note: [Set temperature can be changed only from "Cool Mode" and "Sleep Mode" can be On/Off only from "Cool mode"]

OFFLINE VOICE CONTROL FUNCTION

(Only for selected models)

Voice Command list

Customers are requested to practice the command from the list below:

Sl	Voice Command	Voice Play
1	HELLO-WALTON	HELLO
2	AC-START	OK, START
3	SIXTEEN-DEGREE	OK, SIXTEEN-DEGREE
4	SEVENTEEN-DEGREE	OK, SEVENTEEN-DEGREE
5	EIGHTEEN-DEGREE	OK, EIGHTEEN-DEGREE
6	NINETEEN-DEGREE	OK, NINETEEN-DEGREE
7	TWENTY-DEGREE	OK, TWENTY-DEGREE
8	TWENTY ONE-DEGREE	OK, TWENTY ONE-DEGREE
9	TWENTY TWO-DEGREE	OK, TWENTY TWO-DEGREE
10	TWENTY THREE-DEGREE	OK, TWENTY THREE-DEGREE
11	TWENTY FOUR-DEGREE	OK, TWENTY FOUR-DEGREE
12	TWENTY FIVE-DEGREE	OK, TWENTY FIVE-DEGREE
13	TWENTY SIX-DEGREE	OK, TWENTY SIX-DEGREE
14	TWENTY SEVEN-DEGREE	OK, TWENTY SEVEN-DEGREE
15	TWENTY EIGHT-DEGREE	OK, TWENTY EIGHT-DEGREE

Sl	Voice Command	Voice Play
16	TWENTY NINE-DEGREE	OK, TWENTY NINE-DEGREE
17	ONE DEGREE-UP	OK, "SET-TEMPERATURE"
18	ONE DEGREE-DOWN	OK, "SET-TEMPERATURE"
19	AUTO-MODE	OK, AUTO-MODE
20	DRY-MODE	OK, DRY-MODE
21	COOL-MODE	OK, COOL-MODE
22	FAN-MODE	OK, FAN-MODE
23	LOW-SPEED	OK, LOW-SPEED
24	MEDIUM-SPEED	OK, MEDIUM-SPEED
25	HIGH-SPEED	OK, HIGH-SPEED
26	SLEEP-MODE	OK, SLEEP-MODE
27	CANCEL-SLEEP MODE	OK, CANCEL-SLEEP MODE
28	ROOM-TEMPERATURE	OK, ROOM-TEMPERATURE
29	SET-TEMPERATURE	OK, "SET-TEMPERATURE"
30	AC-OFF	OK, AC-OFF

To activate or deactivate the Offline Voice Control Function of the AC, press the ECO button twice of the remote.

General Inquiries:

Question : Will the AC work with any voice command?

Answer : No, only by listed voice command.

Question : Can the AC detect Bengali command?

Answer : No.

Question : Will the AC take command when the Remote is turned off?

Answer : Yes.

Question : Is the AC controlled by both Offline Voice Control & Remote Control at the same time?

Answer : Yes.

DISPLAY FUNCTION

Operation of Digital Display Function

- The display shows indoor and outdoor temperatures.
- Clock time, day, month are displayed.
- AC running power (5% tolerance) hours used and helpline number are displayed.
- Shows daily and monthly total electrical consumption of AC (5% tolerance) and daily hours used.
- "Turbo" is displayed for fast cooling operation and "ECO" for power saving operation.
- "HEALTH" is displayed for Plasma Care operation.
- AC indoor fan speed (Silent/Low/Medium/High) is displayed.
- AC operating mode (Auto/Dry/Heat/Cool) is displayed.
- "Set Temperature" of AC shows as default. However, it is displayed when other operating functions are on. Like Pro Clean, Baby Care, Auto Dry, ON/OFF Timer (for 10 seconds) and Smart Connecting for Smart AC etc.
- The digital display light can be turned ON/OFF by pressing the display button of the remote once.
- The brightness of the digital display can be made Bright and Dim by pressing the "SLEEP" button on the remote twice.

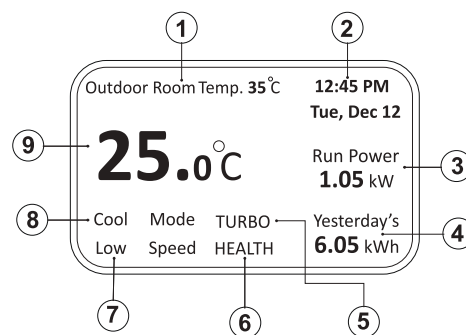


Figure-01

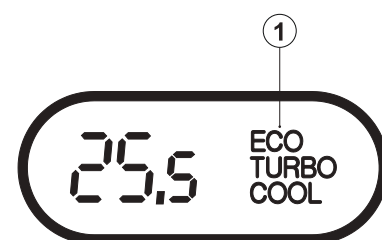


Figure-02

Display Function (AVIAN Series) (Figure-2) Function

- In regular operation, it shows "COOL." For rapid cooling, it displays "TURBO," and for power-saving mode, it shows "ECO."

UV CARE FUNCTION

(Only for selected models)

Effectiveness

It generates ultraviolet ray inside the air inlet portion of AC to neutralize the airborne pathogens such various bacteria and others microscopic microorganisms which are harmful for health.

Operation/Working process

Way to Turn on the UV Care function

- The "UV Care" device is inserted inside the air inlet portion of the AC to emit ultraviolet ray.
- The "UV Care" function has to activate by turning ON the "Health" function on the remote control.
- After turning on the "Health" function the UV function will work and emit the Ultraviolet Ray.
- When the Virus, Bacteria and other microscopic microorganisms comes to the touch of Ultraviolet Ray, it destroys the nucleic acid and DNA of the microorganisms. As a result, the microorganisms become neutralize and die.

Way to Turn off the UV Care function

- To turn off UV Care function, the "Health" function has to close with remote first.
- When the "Health" function is off then automatically "UV Care" function will be closed.

Cautions

- UV Care function does not work when the top panel is open.
- UV Care function should be turned off at the time of cleaning or servicing the AC.

[Note: UV Care function used in the AC has no harmful effect on human body]

AIR PLASMA FUNCTION & IONIZER FUNCTION

(Only for selected models)

Air Plasma Function

Functionality

Air Plasma generates positive ions and negative ions which destroy bacteria and viruses by forming hydroxyl radicals on the surface of bacteria, viruses and purify room air by removing smoke & odors.

Procedure

The Air Plasma function can be turned on by pressing the "HEALTH" button from the remote and also "Health" can be seen on the remote display.

Method to exit the Function

Press the "HEALTH" button again to turn off the Air Plasma function.

Notable

The Air Plasma function can be activated in any mode by turning on the Health mode.

Ionizer Function

Functionality

Ionizer generates negative ions that purify airborne pollutants such as smoke, dust, bacteria and odors from the room, ensuring a healthy environment.

Procedure

Press the "HEALTH" button on the remote to activate the ionizer function. When the function is activated, "Health" or "⚡" will appear on the remote display.

Method to exit the Function

The ionizer function can be turned off by pressing the "HEALTH" button again and the "Health" or "⚡" will disappear from the display.

Notable

Ionizer function can be activated in any mode by turning on the health mode.

3-IN-1 CONVERTIBLE CAPACITY FUNCTION

(Only for selected models)

Functionality

The function enables to control the capacity of the AC according to the pre-set capacity as per the requirement of the customer. This function saves energy and at the same time provides optimal cooling to customers.

Procedure

1. This function works in "Cool" mode.
2. To turn on the function, enter the "Cool" mode and press the "Display" button consecutively four times to enter the "C1" mode and six times to enter the "C2" mode.
3. Capacity corresponding to "C1"/"C2" (only in Digital Display models) or "C1"/"C2" or will be displayed for 5 seconds on AC's "Display" after the function is activated or, when entering Cool mode.

Rated Capacity (C0 Mode)	C1 Mode	C2 Mode
1.0 Ton	0.75 Ton	0.50 Ton
1.5 Ton	1.0 Ton	0.75 Ton
2.0 Ton	1.5 Ton	1.0 Ton

Method to Exit Function

"C1"/"C2" mode can be cancelled by pressing the "Display" button two times consecutively. After exiting, display will show capacity corresponding to "C0" (only for Digital Display models) or "C0" for 5seconds. Then it will show "Set Temperature"

Notable

Fan speed will automatically set to preset level when entering "C1"/ "C2" mode. Later customer can change fan speed with remote.

USE OF R-290 REFRIGERANT AND LEAK ALARM

Only applicable for Eco-Friendly AC with R-290 Refrigerant

Precaution:

R-290, a hydrocarbon compound, is a colorless gas. Additional care is required due to the flammability of R-290 as a refrigerant.

Instructions for Room Size:

Below are the specified room sizes suitable for eco-friendly R-290 refrigerant-based AC units:

Capacity	Minimum Room Size	Maximum Room Size
3517 Watt (12000 Btu/Hr)	90 Sq. Ft	120 Sq. Ft
5275 Watt (18000 Btu/Hr)	120 Sq. Ft	180 Sq. Ft

Note:

The indoor unit should be installed at a minimum height of 2100 mm from the floor and maintain a minimum distance of 200 mm from the ceiling.

Instructions for Extra Refrigerant Charge due to Extra Service pipe

Sometimes, additional length of service pipe may be necessary for installing the indoor unit with the outdoor unit. In this regard an additional amount of refrigerant is charged for every meter of extra service pipe used.

The refrigerant charging amounts for additional service pipe are outlined below:

3517 Watt (12000 Btu/Hr): 3 gm/meter

5275 Watt (18000 Btu/Hr): 5 gm/meter

Note: Using more than 3 meters of additional service pipe for eco-friendly R-290 refrigerant based AC unit is prohibited.

USE OF R-290 REFRIGERANT AND LEAK ALARM

Only applicable for Eco-Friendly AC with R-290 Refrigerant

Limitation for gas charging

There is a limit on the maximum amount of gas charging for eco-friendly R-290 refrigerant based AC unit. That is given below:

3517 Watt (12000 BTU/hr): Not more than 219 grams total of R-290 refrigerant can be charged to the unit.

5275 Watt (18000 BTU/hr): Not more than 315 grams total of R-290 refrigerant can be charged to the unit.

Instructions for R-290 Based AC Servicing

Only authorized service agents should perform the servicing and maintenance of R-290 based AC units.

R-290 Refrigerant Leak Detection and Alarm System

R-290 Sensor: If R-290 gas circulating through the air conditioning system accidentally leaks into the environment through tube leaks, gas and smoke detection sensors detect the presence of R-290 gas.

WARNING EMERGENCY ALARMS: As soon as R-290 gas is detected, the display light will give a visual signal by showing "99" and a continuous 'beep' sound.

Actions to be Taken after the Alarm: After confirming the alarm detecting R-290 gas in the air conditioner, the door and window of the room should be carefully opened without turning off the AC for at least 10 minutes. In this case, if you want to stop the alarm, you have to press the up/down swing button of the remote 6 times within 10 seconds. Then the AC can be turned off using the remote. Then call customer care center or helpline number 16267 for servicing.

HEATING & COOLING FUNCTION

(Only For Heating & Cooling AC)

Auto Defrost

In heating mode, Air conditioner absorbs heat from outdoor and supply it to indoor. But sometimes outdoor temperature becomes very low and heavy ice is formed on the condenser fin that's why heating capacity decreases. If outdoor temperature is very low, auto defrost cycle will work.

Defrosting Cycle

- Running after a long time in heating mode when outdoor temperature becomes low and creates high humidity, frost will form on outdoor unit. At this time defrost cycle will start and run for 10 to 12 minutes.
- Indoor fan motor and outdoor fan motor may remain stop during auto defrost cycle.
- Heating mode will recover automatically after defrost cycle is completed.

Cold Air Prevention

In heating mode, there is a possibility to flow cold wind through indoor for certain time. Cold air prevention mode works to prevent this kind of flow in heating mode. It does not allow indoor fan to start until indoor heat exchanger achieves certain temperature.

This function works in following stages of operation

- Heat operation just started up.
- After Auto defrosting operation is finished.
- Heating under low temperature.

ERROR INDICATION

Indoor Display	Fault Details	Troubleshooting
EE	Indoor machine EE(EEPROM) fault	Need to reprogram IDU EEPROM
E0	Outdoor machine EE(EEPROM) fault	Need to reprogram ODU EEPROM
E1	Indoor fan fault	Need to check indoor fan motor connection
E2	Indoor fan zero-crossing detection abnormal	Need to change indoor fan motor driver IC
E3	Indoor coil temperature sensor fault	Need to check sensor & sensor terminal
E4	Indoor ambient temperature sensor fault	Need to check sensor & sensor terminal
E6	Indoor and outdoor machine communication fault	Need to check Indoor and outdoor connection
E9	WiFi module fault	Need to check WiFi module
F1	Compressor starting abnormal (phase fault, reverse)	Need to check compressor connection
F2	Compressor out-of-step fault	Need to check compressor
F3	IPM(Intelligent Power Module) fault	Need to change ODU PCB
F5	Discharge temperature sensor fault	Need to check sensor & sensor terminal
F6	Suction temperature sensor fault	Need to check sensor & sensor terminal
F7	Outdoor coil temperature sensor fault	Need to check sensor & sensor terminal
F8	Outdoor ambient temperature sensor fault	Need to check sensor & sensor terminal
F9	Outdoor DC fan fault	Need to check outdoor fan motor
P1	Outdoor machine AC current protection	Need to check compressor specs & ODU PCB

Indoor Display	Fault Details	Troubleshooting
P2	Compressor phase current protection	Need to check compressor specs & ODU PCB
P3	Outdoor over-high/ over-low AC voltage protection	Need to check power supply voltage
P4	DC voltage over-high or over-low voltage protection	Need to check power supply voltage
P5	IPM(Intelligent Power Module) over-high temperature protection	Need to check outdoor fan motor
P6	Discharge temperature overheat protection	Need to check outdoor fan motor
P7	Indoor coil anti-freezing protection	Need to check outdoor fan motor
P8	Outdoor coil overheat protection	Need to check outdoor fan motor
P9	Heating Indoor coil overheat protection shutdown	Need to check outdoor fan motor
PC	Cooling outdoor ambient temperature over-low protection	Need to check outdoor fan motor
PH	Heating outdoor ambient temperature over-high protection	Need to check outdoor fan motor
L1	Drive bus voltage over-high protection	Need to check power supply voltage
L2	Drive bus voltage over-low protection	Need to check power supply voltage
L3	Drive phase current overload voltage	Need to check power supply voltage
L4	Abnormal phase current sampling	Need to check power supply voltage
99	R290 refrigerant leakage	Need to check evaporator leakage in IDU unit
EA	Indoor R290 sensor fault	Need to check R290 sensor
CF	Cooling fail	Need to check outdoor unit

CLEANING AND PRECAUTIONS

Air filter must be cleaned once in every two weeks for better performance and longer lifetime. If the AC remains in off condition for a long period of time, and air filter must be cleaned before restart. Air filter may be blocked by accumulation of dusts if it is not cleaned for a long period of time. In that case, the efficiency and longevity of AC may be reduced.

Initial Precaution

Turn off the power switch and disconnect the power plug of AC before starting cleaning. Otherwise, it may be a cause of short circuit. Never immerse air conditioner into water or any liquid flow, it may cause short circuit.

Steps of Cleaning

1. Opening Front Panel:

The Front panel has to be opened by pulling the two slots provided at the side of front panel.

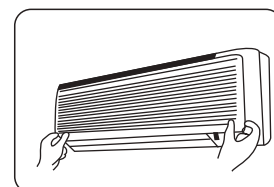
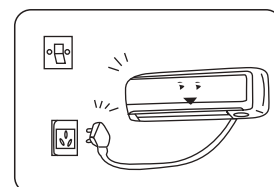
2. Cleaning Front Panel:

Always use soft brush/soft cloth and water for cleaning the front and let it dry. (N.B: The top panel should be cleaned with water at room temperature or maximum 40 degree Celsius rather it may cause damage to the panel, its structure and discoloration. Never use gasoline, volatile oil and insecticides for cleaning, as they are harmful for the panel). If the accumulated dust can not be cleaned by water only, in that case liquid detergent may be used.

Clean your display screen with soft fabric/cloth. Do not use water or any cleaning chemicals. It may damage your display

Caution: 1. Don't soak top panel with display into water wips with wet cloth.

2. Keep the front panel for drying after cleaning and never install it in AC before it becomes dry completely.



CLEANING AND PRECAUTIONS

Steps of Cleaning

3. Taking out the Air Filter : Take out the air filter from the slot by pushing downwards as shown in the picture.

Caution : Do not touch the heat exchanger after taking out the air filter, it may cause injury to your finger.

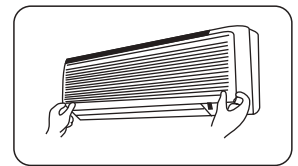
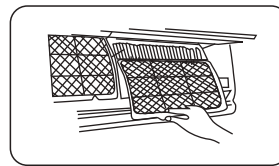
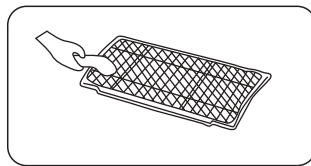
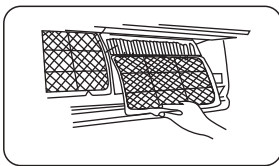
4. Cleaning of Air Filter : Use vacuum cleaner to remove dust & wash it with water/detergent and let it dry. (N.B.: Use water below 40 degree Celsius for cleaning). If there is excessive dust around the air conditioner, the air filter has to be cleaned more than once in every two weeks.

Caution : Clean the air filter regularly. Air filters containing dust may reduce cooling and heating performance.

5. Reattaching the Air Filter : Reattach the air filter as per shown in the picture after drying.

6. Top Panel : Reattach top panel in the previous position.

7. When planning not to use AC for a long time, run the AC in fan mode for at least one hour to dry and clean the indoor components and then turn it off.



ACTIONS TO BE DONE BEFORE REPAIR

Inspect the following items before you call the service agent. If you are still failed to identify and fix the problem, you may contact with authorized service Agent.

Incidents/Problems	Causes
AC Off (unable to run)	<ul style="list-style-type: none"> ● Is the fuse burnt out? ● Is the circuit breaker off? ● Is the power switched off? ● Was the timer on/off before? ● Is the cable connection ok? ● Whether the system voltage is ok?
Undesirable cooling effect	<ul style="list-style-type: none"> ● Is the air filter dirty? ● Has the temperature been set correctly? ● Is the air Inlet or outlet of indoor unit blocked? ● Is there any heating source inside the room?
Abnormal smell inside the room	<ul style="list-style-type: none"> ● Inspect carefully if any bad odor is emitting from wall, furniture, clothes or any other source.
Less sound is heard (it is normal)	<ul style="list-style-type: none"> ● Circulation of refrigerant inside the air conditioner. ● Indoor blower rotating sounds. ● Sounds of falling water from drain hosepipe. <p>(These are normal incidents)</p>

ACTIONS TO BE DONE BEFORE REPAIR

Incidents/Problems	Causes
Remote control is not working	<ul style="list-style-type: none"> ● Have the batteries been installed in the remote controller? ● Is certain distance maintained between the receiver and remote controller? ● Is there any obstacle between the receiver and the remote controller? ● Is the angular distance maintained between the receiver and the remote controller? ● Is the receiver working properly? ● Is there any interference from any light source?
Compressor does not on during the start operation of AC	<ul style="list-style-type: none"> ● Compressor will be on after 3 minutes of operation/restart of AC. It is one kind of protection, wait for 3 minutes, it will settle down. If it is not settled down, look at the display if any code is displayed. In such case contact with authorized service center.
Foggy air is coming out from AC	<ul style="list-style-type: none"> ● In cooling operation, the room temperature has come down significantly. ● In cooling operation, ice has accumulated in the evaporator and E1/P7 is shown in the display. In that case, turn off AC for some time and resume again. If E1/P7 is shown in the display again, make a contact with authorized service center.

ACTIONS TO BE DONE BEFORE REPAIR

Incidents/Problems	Causes
AC does not work (On/Off) after setting timer	<ul style="list-style-type: none"> ● Check if the clock button is available in the remote controller? If available, fix the correct time according to Bangladesh time. Timer will work in order.
Buttons of remote controller not working properly	<ul style="list-style-type: none"> ● Check the availability of Lock button in the remote controller. If available, then check whether lock function is activated or not? If it is activated, press Lock button for 3 seconds. Now the buttons of remote controller will work accordingly.
None or blurred display on remote controller	<ul style="list-style-type: none"> ● Is the battery expired?
A code is shown in the display/AC is in off condition	<ul style="list-style-type: none"> ● Stop the main supply of AC for some time and resume it again. If the code is still displayed/AC turns off after running some time, it indicates problem in the system. In such case, take out the power plug and seek assistance from service agent.

DISPOSAL

1. Unused and old air conditioner should not be disposed in any place. It pollutes the environment.
2. Unused and old air conditioner has to be made reusable by any professional or the company or has to be destroyed it under strict supervision.

