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AIR CONDITIONER



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WiFi Guideline ONIDA Product

Warranty Registration System

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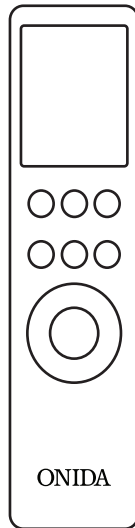
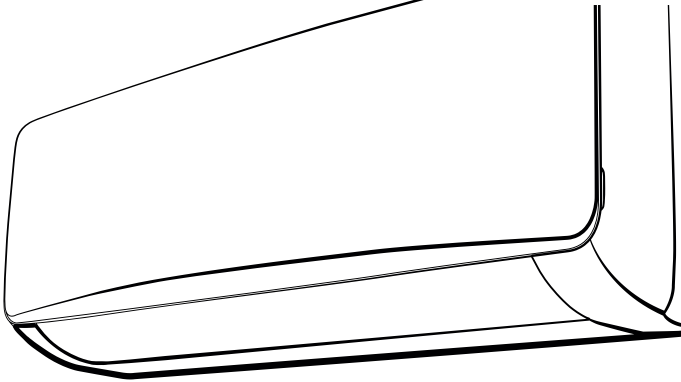
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Post / Visit Post the Warranty Registration Card & Service Centre
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OWNER'S PRIDE

AIR CONDITIONER



User Manual

Inverter and Fixed Speed

IMPORTANT :

Please read this owner's manual carefully and thoroughly before installing and operating your room air conditioners.

Please retain this owner's manual for future reference after reading it thoroughly.

Dear customer

Congratulation on buying ONIDA Air Conditioner.

Your Air Conditioner comes with ONIDA Guarantee of Quality as detailed in the manual.

ONIDA takes great pride in providing its customers with state-of-the-art products that adheres to international quality standards.

ONIDA is committed to following quality policy laid by our chairman and managing director Mr. G. L. Mirchandani.

“We are committed to quality and strive for continuous improvement through innovation and human development to give customer better value for money always”

ONIDA stands committed to provide the ultimate customer satisfaction, as nothing brings us greater joy than having satisfied customers of ONIDA.

At ONIDA, feedback and suggestions based on your product usage experience is greatly appreciated.

Please contact to us at **customer.care@onida.com**

Chief Executive Officer

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This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

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

Explanation of Symbols



DANGER

Indicates a hazardous situation that, if not avoided, will result in death or serious injury.



WARNING

Indicates a hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION

Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

NOTICE

Indicates important but not hazard-related information, used to indicate risk of property damage.



Indicates a hazard that would be assigned a signal word WARNING or CAUTION.



Appliance filled with flammable gas R32.



Before use the appliance, read the owner's manual first.



Before install the appliance, read the installation manual first.



Before repair the appliance, read the service manual first.

The Refrigerant

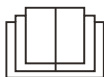
- To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R32, which is specially cleaned. The refrigerant is flammable and inodorous. Furthermore, it can lead to explosion under certain conditions. But the flammability of the refrigerant is very low. It can be ignited only by fire.
- Compared to common refrigerants, R32 is a nonpolluting refrigerant with no harm to the ozoneosphere. The influence upon the greenhouse effect is also lower. R32 has got very good thermodynamic features which lead to a really high energy efficiency. The units therefore need a less filling.

WARNING:

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture. Should repair be necessary, contact your nearest authorized Service Centre. Any repairs carried out by unqualified personnel may be dangerous. 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.) Do not pierce or burn.

Appliance shall be installed, operated and stored in a room with a floor area larger than $X \text{ m}^2$. (Please refer to table "a" in section of " Safety Operation of Inflammable Refrigerant" for Space X.)

Appliance filled with flammable gas R32. For repairs, strictly follow manufacturer's instructions only. Be aware that refrigerants not contain odour. Read specialist's manual.





Operation and Maintenance

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- Do not connect air conditioner to multi-purpose socket. Otherwise, it may cause fire hazard.
- Do disconnect power supply when cleaning air conditioner. Otherwise, it may cause electric shock.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not wash the air conditioner with water to avoid electric shock.
- Do not spray water on indoor unit. It may cause electric shock or malfunction.
- After removing the filter, do not touch fins to avoid injury.
- Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.

Precautions



WARNING

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



WARNING

Attachment

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

Precautions



WARNING

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

Precautions



WARNING

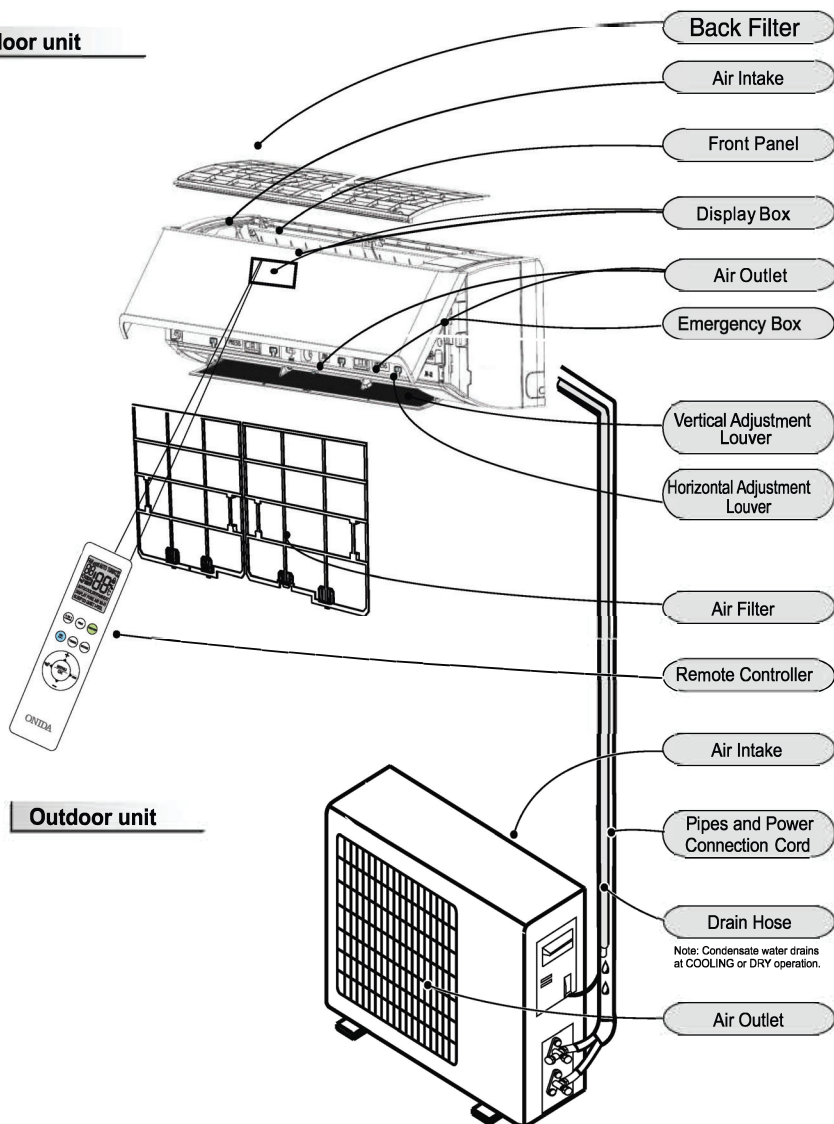
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an circuit break must be installed in the line.
- If you need to relocate the air conditioner to another place, only the qualified person can perform the work. Otherwise,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

NOTICE:

- The operating temperature range (outdoor temperature) for cooling only unit is 18°C ~ 46°C

Identification of Parts

Indoor unit

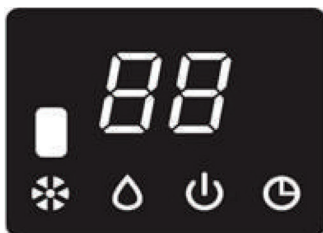


Outdoor unit

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

Display

For some models :



For some models :



For some models :



Cool Mode Indicator



Dry Mode Indicator



ON/OFF Indicator



Timer Indicator



Display Set Temperature

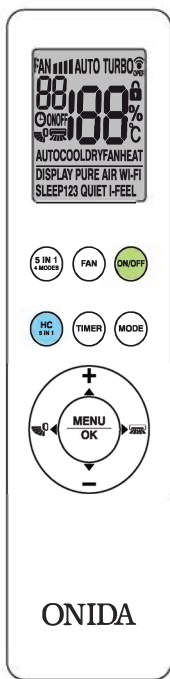


Sleep" indicator

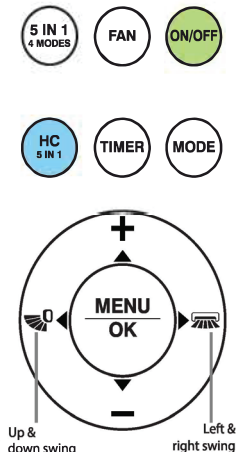
Wi-Fi Indicator

(Display content or position may be different from above graphics, please refer to actual products)

Buttons on remote controller

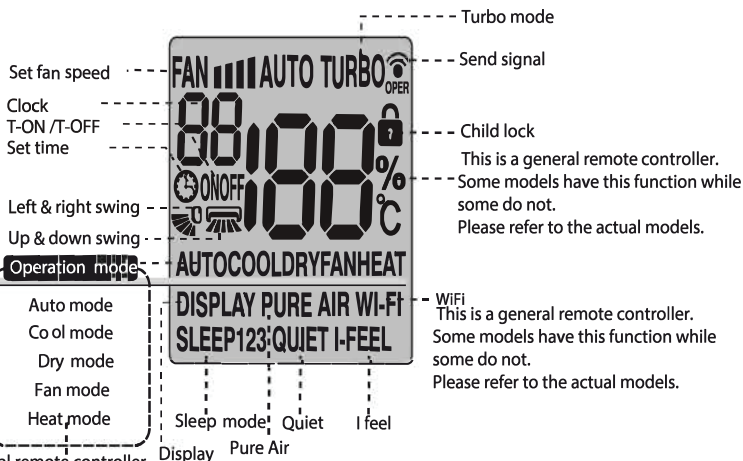


INVERTER



FIX SPEED

Introduction for icons on display screen



This is a general remote controller. Some models have this function while some do not. Please refer to the actual models.

Introduction for buttons on remote controller

Note:

- After putting through the power, the air conditioner will give out a sound.
Operation indicator "⏻" is ON (White indicator).
After that, you can operate the air conditioner by using remote controller.

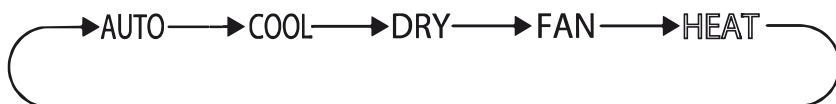
- Under on status, pressing the button on the remote controller, the signal icon "📶" on the display of remote controller will blink once and the air conditioner will give out a "Melody" sound, which means the signal has been sent to the air conditioner.

1 ON/OFF button

Press this button can turn ON or turn OFF the air conditioner. After turning ON the air conditioner, display shows 24 degree (if the previously set temp is less than 24°C), after turning OFF the air conditioner display shows indicator "⏻", and indoor unit will give out a sound.

2 MODE button

Press this button to select your required operation mode.



- **AUTO** – When selecting auto mode, air conditioner will operate automatically according to the sensed temperature. Set temperature adjusted automatically according to the room temp. Press "FAN" button can adjust fan speed. Press "🌀" / "🌀" button can adjust fan blowing angle.

In some models, in Auto mode, set temp. will be increased by 1 degree after 1 hour to have comfortable cooling with reduced electricity consumption, if the set temp is less than or equal to 24 degree (move to 25 deg. from 24 deg after 1 hour). After 8 hours (1+7 hours), unit will come back to customer original setting.

- **COOL** -- After selecting cool mode, air conditioner will operate under cool mode. Cool indicator "❄" on indoor unit is ON. Press "▲" or "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press "🌀" / "🌀" button to adjust fan blowing angle.

- **DRY** -- When selecting dry mode, the air conditioner operates at low speed under DRY mode. Dry indicator "◊" on indoor unit is ON (in select models). Under dry mode, fan speed can't be adjusted. Press "🌀" / "🌀" button to adjust fan blowing angle.

Introduction for buttons on remote controller

•**FAN** -- When selecting fan mode, the air conditioner will only blow fan, no cooling and no heating. Only shows indoor room temp display on indoor unit. Press "FAN" button to adjust fan speed. Press "🌀" / "🌀" button to adjust fan blowing angle.

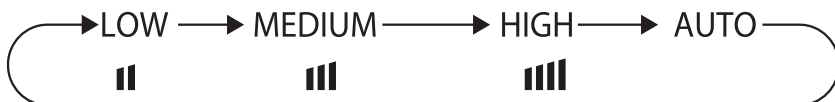
•**HEAT** -- When selecting heating mode, the air conditioner operates under heat mode Press "▲" or "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press "🌀" / "🌀" button to adjust fan blowing angle. (Cooling only unit won't receive heating mode signal if setting heat mode with remote controller). This feature is available in selected models only.

Note:

- For preventing cold air, after starting up heating mode, indoor unit will delay 1~5 minutes to blow air (actual delay time is depend on indoor ambient temperature).
- Set temperature range from remote controller: 16~30 °C ; Fan speed: low speed, medium speed, high speed, auto speed,

3 FAN button

Pressing this button can set fan speed circularly as:



Note:

- It's Low fan speed under Dry mode
- In the AUTO speed, air conditioner will select proper fan speed automatically according to ex-factory setting.

4 TURBO button (For fix speed models only)

Under COOL mode, press this button to turn to quick COOL mode. " TURBO " is displayed on remote controller. Press this button again to exit turbo function and " TURBO " will disappear. If start this function, the unit will run at highest fan speed to cool quickly so that the ambient temp. approaches the preset temp. as soon as possible.

Introduction for buttons on remote controller

4 HC 5 In 1 (For Inverter models only)

Under COOL or HEAT mode, press this button to turn to quick COOL or quick HEAT mode. " HC " is displayed on remote controller. Press this button again to exit turbo function and " HC " will disappear. If start this function, the unit will run at high fan speed to cool or heat quickly so that the ambient temp. approaches the preset temp. as soon as possible.

5 ▲ / ▼ button

- Press "▲" or "▼" button once increase or decrease set temperature by 1 degree. Holding "▲" or "▼" button, 2s later, set temperature on remote controller will change quickly. On releasing button after setting is finished, temperature indicator on indoor unit will change accordingly. (Temperature can only be adjusted in Cool & Heat Mode.)
- When setting Timer-ON, Timer-OFF, press "▲" or "▼" button to adjust time.

6 button

Press this button can select left & right swing angle.

Note:

- On pressing Horizontal Swing Key, the swing will be Auto Swing (Left to Right), On again pressing the same key, if swing is ON, it will be OFF and will stop at the last position.
- This function is available in select models only.

7 button

Press this button can select up & down swing angle.

Note:

- On pressing Vertical Swing Key, the swing will be Auto Swing. If vertical swing is ON, again pressing the key, the swing will be OFF and will stop at the last position.

Introduction for buttons on remote controller

8 TIMER Button

ON/OFF timer can be set with the help of Timer key and timings in hrs can be set with the help of up & down keys. To cancel the timer function press timer key twice.

•Note:

- Timer ON button will work only when product is in stand by mode through remote
- Timer OFF button will work only when product is in running condition.

9 ECO Button (For fix speed models only)

This key is used to activate or deactivate economy / energy saver function. When Eco function is active set temp. will be 24 degree (or higher) and fan speed will be set at medium speed. After activation this function remote will show EC on screen. This key is used to activate or deactivate economy / energy saver function.

9 5 In 1, 4 Modes (For Invertor models only)

Press 5 IN 1/4 Modes button repeatedly to select each step.

Step 1. Press 5 IN 1 button One time , AC capacity will be approx. 40% and remote shows C1 and indoor display also show C1, if then temp change, the indoor display show temp for 5 sec & then again C1.

Step 2. Press 5 IN 1 button Two times, AC capacity will be approx. 60% and remote shows C2 and indoor display also show C2, if then temp change, the indoor display show temp for 5 sec & then again C2.

Step 3. Press 5 IN 1 button Three times, AC capacity will be approx. 80% and remote shows C3 and indoor display also show C3, if then temp change, the indoor display show temp for 5 sec & then again C3.

Step 4. Press 5 IN 1 button Four times, AC capacity will be 100% and remote shows C4 and indoor display also show C4, if then temp change, the indoor display show temp for 5 sec & then again C4.

Step 5. Press 5 IN 1 button Five times, this mode gets cancel & AC will run on its previous setting.

Introduction for buttons on remote controller

10 MENU Button

Under this button functions like DISPLAY , PURE AIR, Wi-Fi , SLEEP , QUIET & I FEEL can be selected. By pressing MENU key, above functions will display on remote screen. Function from this is selected by pressing left / right key on cursor key and go up or down by pressing up /down key from cursor key. Required function can be selected by pressing OK button from remote controller when function blinks. Selected function will be displayed on remote screen.

- DISPLAY** -- Select this function to turn ON or OFF the display on indoor unit.
- PURE AIR** -- Select this function to ON or OFF Plasma / UV (as per applicable models). Plasma/UV can be operate even if AC is in stand by mode (Ensure that mains electric supply to indoor unit should be ON). When AC is ON and UV/Plasma is also ON, and then the AC is turned OFF by Remote then Plasma also OFF.
- Wi-Fi** -- Select this function to enable Wi-Fi function. Wi-Fi module will go in network connection pairing mode (this function is available in selected models only) (This function is not available in this model)
- SLEEP** -- Select this function to ON or OFF SLEEP function. Sleep function can be set in COOL mode only, in this function set temp. will increase by 1 degree in first hour. Total 2 degree increase in 2 hours. The unit can work 7 hours continuously in SLEEP mode with same setting, after that it will quit from this mode and work on previous presetting.

Introduction for buttons on remote controller

Note:

- Default fan speed is low and can be change afterwards.
- Under FAN, DRY & AUTO mode this function is not available.
- When ECO mode is enabled, and press sleep button, then ECO will be disabled and vice versa
- QUIET** -- Select this function to ON or OFF QUIET function. During this mode, the Fan speed will be lowest automatically. Under this function fan speed is not available and if change the fan speed, the QUIET function will be disabled. If TURBO is ON, on pressing QUIET function, TURBO mode will be disabled.
- I FEEL** -- Select this function to start I FEEL function. After this function is set, the remote controller will send the detected ambient temperature to the controller and the unit will automatically adjust the indoor temperature according to the detected temperature. Select this function again to close I FEEL function.

Note:

- The remote controller will regularly send ambient temperature data to the controller. When the data has not been received for a long time, the unit will operate according to the temperature sensed by the air conditioner.
- Please put the remote controller near user when this function is set. Do not put the remote controller near the object of high temperature or low temperature in order to avoid detecting inaccurate ambient temperature. When I FEEL function is turned on, the remote controller should be put within the area where indoor unit

Introduction for buttons on remote controller

can receive the signal sent by the remote controller.

- When ECO mode is enabled, and press SLEEP button, then ECO will be disabled and vice versa.

- CHILD LOCK FUNCTION** -- Press menu key for 5 seconds to turn ON or turn OFF child lock function. When child lock function is on, "🔒" icon is displayed on remote controller.

- ABOUT BACK-LIGHTING FUNCTION** -- The remote controller screen back light ON for 4~5 sec after pressing any key every time.

- **DEEP CLEANING** – This DEEP CLEANING mode prevents the growth of airborne bacteria by removing moisture inside the unit. It cleans & dries evaporator keeping the AC fresh for the next operation. To activate this function Press HC button on remote controller 6 times within 10 seconds (as per applicable models). After pressing, IDU display shows **CL**, swing louvers to the minimum position. At the same time, ODU will run for 10 minutes and indoor unit Fan remains OFF. After 10 minutes out door unit will switch off and the indoor unit fan will start for 5 minutes. After 5 minutes the Clean air function will be canceled and the system will run at the previous setting.

Operation guide

1. After putting through the power, press "ON/OFF" button on remote controller to turn on the air conditioner.
2. Press "MODE" button to select your required mode: AUTO, COOL, DRY, FAN, HEAT.
3. Press "▲" and "▼" button to set your required temperature. (Temperature can only be adjusted under Cool Mode & Heat Mode)
4. Press "FAN" button to set your required fan speed: low speed, medium speed, high speed, auto.
5. Press "🌀" or "🌀" button to select fan blowing angle.

Replacement of batteries in remote controller

1. Slide the battery cover
2. Take out the original batteries
3. Place two nos (AAA 1.5V) dry batteries, and make sure the position of "+" polar and "-" polar is correct
4. Reinstall the cover



Fig.1



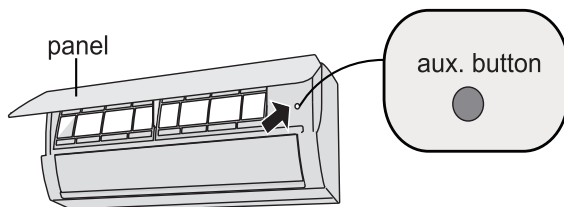
Fig.2

NOTICE

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

Emergency operation

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



WARNING:

Use insulated object to press the aux. button

Clean and maintenance

WARNING

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

Clean surface of indoor unit

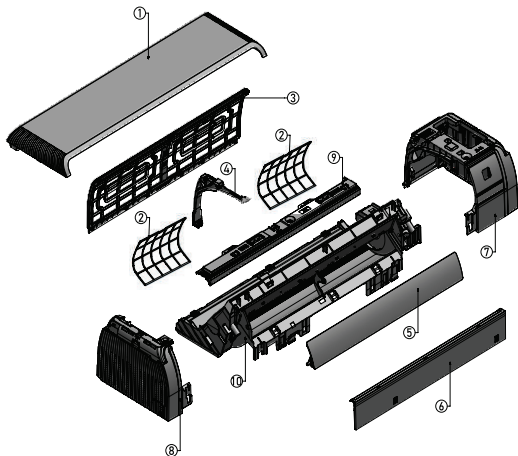
When the surface of indoor unit is dirty, it is recommended to use a soft dry cloth or wet cloth to wipe it.

NOTICE:

- Do not remove the panel when cleaning it.

Clean and Maintenance

PARTS DISASSEMBLY GUIDE

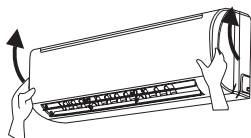


SERIES OF PARTS	PART NAME
1	AIR INTAKE FRONT PANEL
2	AIR FILTER
3	BACK FILTER
4	FILTER GUIDE
5	HORIZONTAL VANE
6	INSTALL COVER
7	SIDE R SUB ASSEMBLY
8	SIDE L SUB ASSEMBLY
9	FRONT DISCHARGE
10	CHASSIS J-SERIES

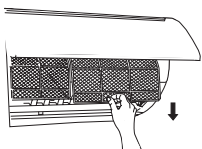
*Need to follow the sequence of parts as shown above for proper disassembly of MAGNUS & GRANDE 2.0 series Indoor units.

Clean filter

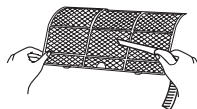
- 1 Open panel**
Pull out the panel to a certain angle as shown in the fig.



- 2 Remove filter**
Remove the filter as indicated in the fig.



- 3 Clean filter**
- Use dust catcher or water to clean the filter.
 - When the filter is very dirty, use the water (below 45℃) to clean it, and then put it in a shady and cool place to dry.



- 4 Install filter**
Install the filter and then close the panel cover tightly.



⚠ WARNING

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

Clean and Maintenance

NOTICE: Checking before use-season

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

NOTICE: Checking after use-season

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

Notice for recovery

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

Malfunction analysis

General phenomenon analysis

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

Phenomenon	Check items	Solution
Indoor unit can't receive remote controller's signal or remote controller has no action.	Whether it's interfered severely (such as static electricity, stable voltage)?	Pull out the plug. Reinsert the plug after about 3min, and then turn on the unit again.
	Whether remote controller is within the signal receiving range?	Signal receiving range is 8m.
	Whether there are obstacles?	Remove obstacles.
	Whether remote controller is pointing at the receiving window?	Select proper angle and point the remote controller at the receiving window on indoor unit.
	Is sensitivity of remote controller low; fuzzy display and no display?	Check the batteries. If the power of batteries is too low, please replace them.
	No display when operating remote controller?	Check whether remote controller appears to be damaged. If yes, replace it.
	Fluorescent lamp in room?	- Take the remote controller close to indoor unit. - Turn off the fluorescent lamp and then try it again.
No air emitted from indoor unit	Air inlet or air outlet of indoor unit is blocked?	Eliminate obstacles.
	Under heating mode, indoor temperature is reached to set temperature?	After reaching to set temperature, indoor unit will stop blowing out air.
	Heating mode is turned on just now?	In order to prevent blowing out cold air, indoor unit will be started after delaying for several minutes, which is a normal phenomenon.

Malfunction analysis

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

Malfunction analysis

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

Malfunction analysis

Error Code- Fix speed models

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

Code	Error Discription
E1	When Room Sensor short or open. (display show E1 & Preset temperature alternate after every 4 second)
E2	When Coil Sensor short or open. (display show E2 & Preset temperature alternate after every 4 second)
E5/H6	To indicate Fan Motor Error.
dF	To indicate Defrost error.

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



WARNING

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

Malfunction analysis

Error Code- Inverter models

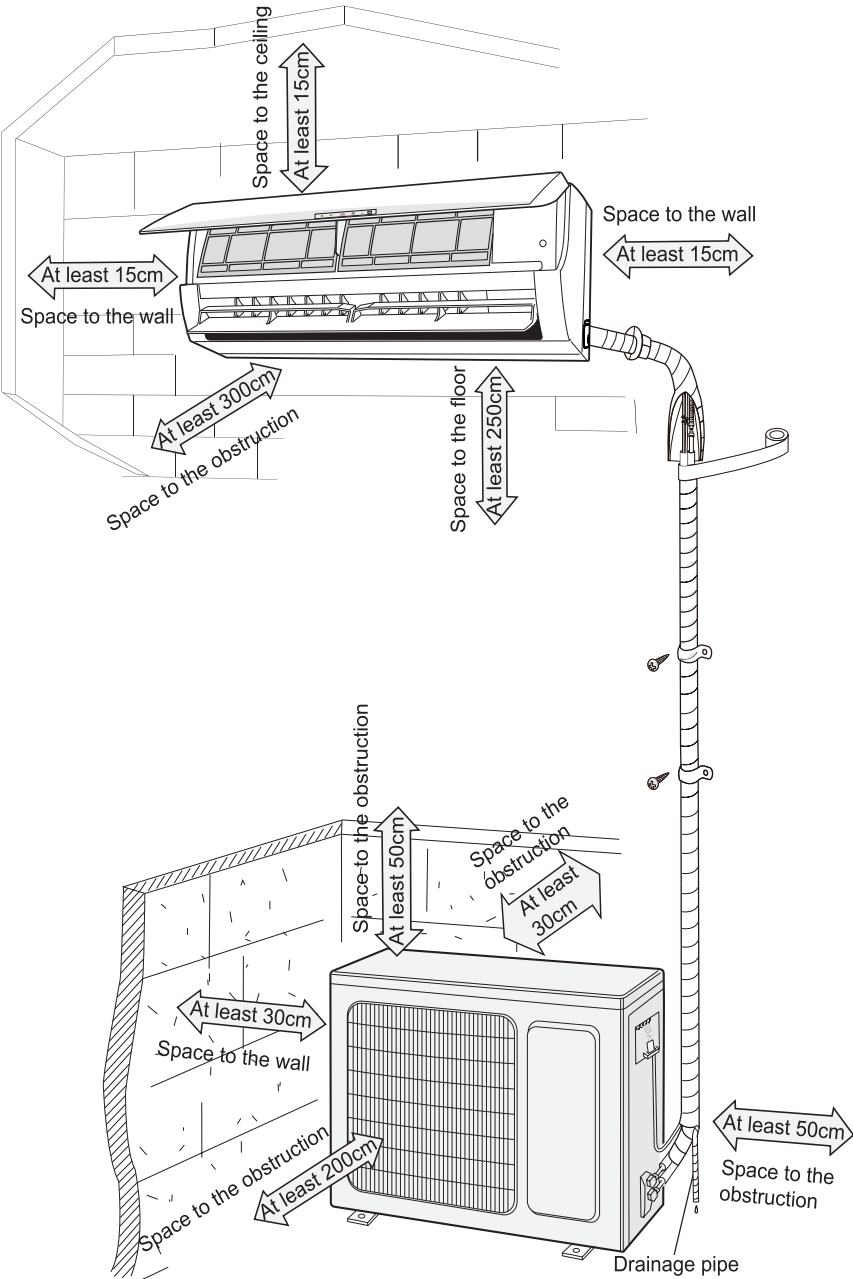
Inverter Operation :-

Air conditioner automatically calculates the heat load and accordingly it delivers the cooling inside the room, to bring down the temperature equal to set temperature and maintain the comfort temperature at less energy consumption.

In case of any fault in inverter outdoor unit the operation of air conditioner will get stop immediately and corresponding error will appear on the indoor display.

Sr No	Unit Type	Error code	Error Code Description
1	IDU	EE	Indoor machine EE fault
2		E1	Indoor fan fault
3		E2	Indoor Fan Zero-crossing detection abnormal
4		E3	Indoor coil sensor fault
5		E4	Indoor ambient temperature sensor fault
6		E6	Indoor and outdoor machine communication fault
7	ODU	E0	Outdoor EE fault
8		EB	Outdoor communication fault
9		F1	Compressor starting abnormal (phase failure, reverse)
10		F2	Compressor out-of-step fault
11		F3	IPM module fault
12		F4	Compressor shell roof fault/protection
13		F5	Discharge temperature sensor fault
14		F6	Suction temperature sensor fault
15		F7	Outdoor coil temperature sensor fault
16		F8	Outdoor ambient temperature sensor fault
17		F9	Outdoor DC fan fault

Installation dimension diagram



Safety precautions for installing and relocating the unit

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

Warning

- **When installing or relocating the unit, be sure to keep the refrigerant circuit free from air or substances other than the specified refrigerant.**
Any presence of air or other foreign substance in the refrigerant circuit will cause system pressure rise or compressor rupture, resulting in injury.
- **When installing or moving this unit, do not charge the refrigerant which is not comply with that on the nameplate or unqualified refrigerant.**
Otherwise, it may cause abnormal operation, wrong action, mechanical malfunction or even series safety accident.
- **When refrigerant needs to be recovered during relocating or repairing the unit, be sure that the unit is running in cooling mode. Then, fully close the valve at high pressure side (liquid valve). About 30-40 seconds later, fully close the valve at low pressure side (gas valve), immediately stop the unit and disconnect power. Please note that the time for refrigerant recovery should not exceed 1 minute.**
If refrigerant recovery takes too much time, air may be sucked in and cause pressure rise or compressor rupture, resulting in injury.
- **During refrigerant recovery, make sure that liquid valve and gas valve are fully closed and power is disconnected before detaching the connection pipe.**
If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.
- **When installing the unit, make sure that connection pipe is securely connected before the compressor starts running.**
If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.
- **Prohibit installing the unit at the place where there may be leaked corrosive gas or flammable gas.**
If there leaked gas around the unit, it may cause explosion and other accidents.
- **Do not use extension cords for electrical connections. If the electric wire is not long enough, please contact a local service center authorized and ask for a proper electric wire.**
Poor connections may lead to electric shock or fire.
- **Use the specified types of wires for electrical connections between the indoor and outdoor units. Firmly clamp the wires so that their terminals receive no external stresses.**
Electric wires with insufficient capacity, wrong wire connections and insecure wire terminals may cause electric shock or fire.

Tools for installation

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

Note:

- Please contact the local agent for installation.
- Don't use unqualified power cord.

Selection of installation location

Basic requirement	Indoor unit
Installing the unit in the following places may cause malfunction. If it is unavoidable, please consult the local dealer: 1. The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air. 2. The place with high-frequency devices (such as welding machine, medical equipment). 3. The place near coast area. 4. The place with oil or fumes in the air. 5. The place with sulfureted gas. 6. Other places with special circumstances. 7. The appliance shall not be installed in the laundry	1. There should be no obstruction near air inlet and air outlet. 2. Select a location where the condensation water can be dispersed easily and won't affect other people. 3. Select a location which is convenient to connect the outdoor unit and near the power socket. 4. Select a location which is out of reach for children. 5. The location should be able to withstand the weight of indoor unit and won't increase noise and vibration. 6. The appliance must be installed 2.5m above floor. 7. Don't install the indoor unit right above the electric appliance. 8. Please try your best to keep way from fluorescent lamp.
Outdoor unit	
1. Select a location where the noise and outflow air emitted by the outdoor unit will not affect neighborhood. 2. The location should be well ventilated and dry, in which the outdoor unit won't be exposed directly to sunlight or strong wind. 3. The location should be able to withstand the weight of outdoor unit. 4. Make sure that the installation follows the requirement of installation dimension diagram. 5. Select a location which is out of reach for children and far away from animals or plants. If it is unavoidable, please add the fence for safety purpose.	

Requirements for electric connection

Safety precaution

1. Must follow the electric safety regulations when installing the unit.
2. According to the local safety regulations, use qualified power supply circuit and air switch.
3. Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring or malfunction. Please install proper power supply cables before using the air conditioner.
4. Properly connect the live wire, neutral wire and grounding wire of power socket.
5. Be sure to cut off the power supply before proceeding any work related to electricity and safety. For models with a power plug, make sure the plug is within reach after installation.
6. Do not put through the power before finishing installation.
7. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
8. The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
9. The appliance shall be installed in accordance with national wiring regulations.
10. Appliance shall be installed, operated and stored in a room with a floor area larger than Xm^2 . (Please refer to table "a" in section of " Safety Operation of Inflammable Refrigerant" for Space X.)



Please notice that the unit is filled with flammable gas R32. Inappropriate treatment of the unit involves the risk of severe damages of people and material. Details to this refrigerant are found in chapter "refrigerant".

Grounding requirement

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

Air-conditioner	Air switch capacity
09K	10A
12K	16A
15/18/24K	25A

Installation of indoor unit

Step one: choosing installation location

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

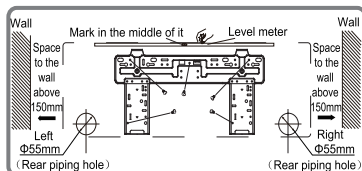
Step two: install wall-mounting frame

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

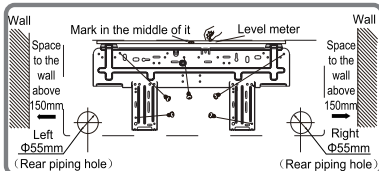
Step three: open piping hole

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

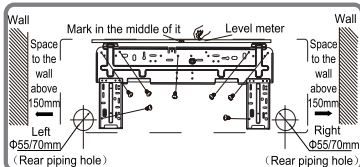
QC:



QD:



QE:

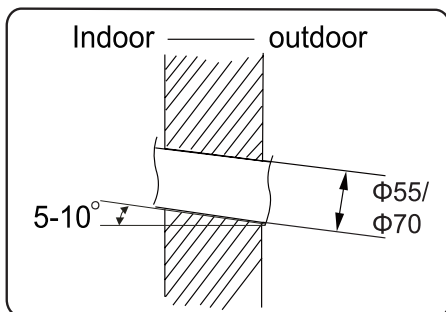


2. Open a piping hole with the diameter of $\Phi 55$ or $\Phi 70$ on the selected outlet pipe position. In order to drain smoothly, slant the piping hole on the wall slightly downward to the outdoor side with the gradient of $5\text{-}10^\circ$.

Installation of indoor unit

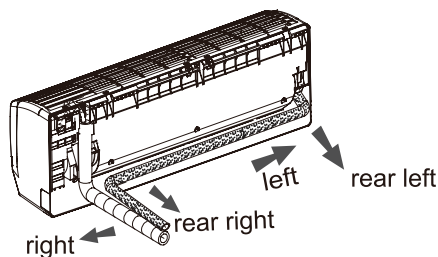
Note:

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

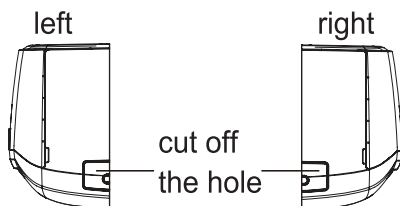


Step four: outlet pipe

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

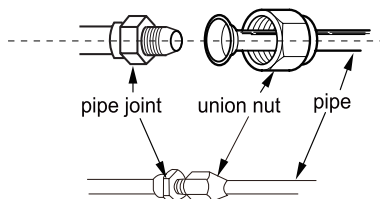


2. When select leading out the pipe from left or right, please cut off the corresponding hole on the bottom case.



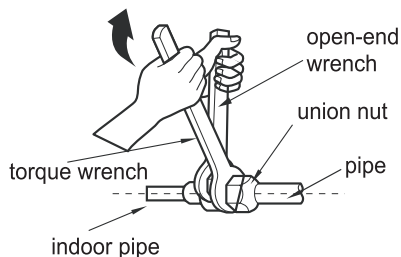
Step five: connect the pipe of indoor unit

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



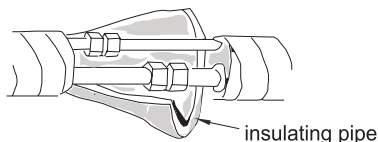
3. Adjust the torque force by referring to the following sheet. Place the open-end wrench on the pipe joint and place the torque wrench on the union nut. Tighten the union nut with torque wrench.

Installation of indoor unit



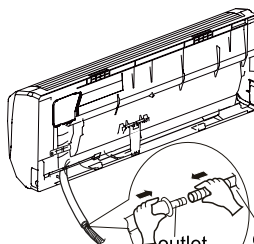
Hex nut diameter	Tightening torque (N·m)
Φ 6	15~20
Φ 9.52	30~40
Φ 12	45~55
Φ 16	60~65
Φ 19	70~75

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

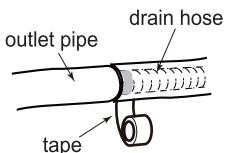


Step six: install drain hose

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

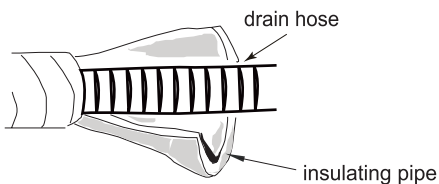


2. Bind the joint with tape.



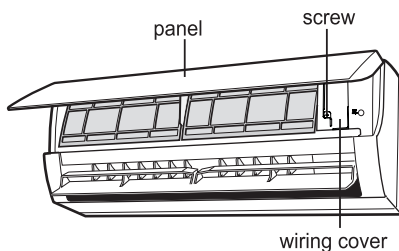
Note:

- Add insulating pipe in the indoor drain hose in order to prevent condensation.
- The plastic expansion particles are not provided.



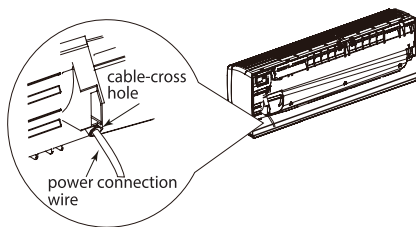
Step seven: connect wire of indoor unit

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

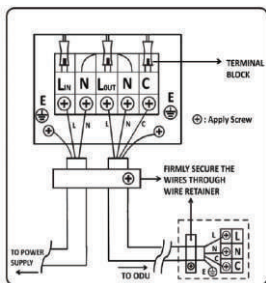
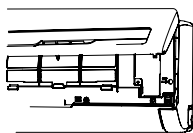


Installation of indoor unit

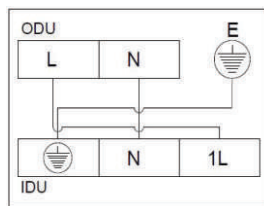
2. Make the power connection wire go through the cable-cross hole at the back of indoor unit and then pull it out from the front side.



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



Applicable for Inverter Models



Applicable for Fix speed Models

4. Put wiring cover back and then tighten the screw.

5. Close the panel.

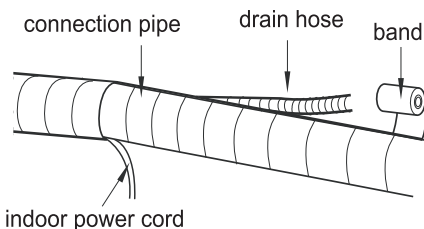
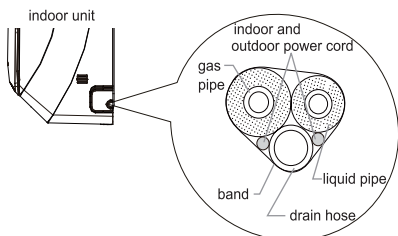
Note:

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

Installation of indoor unit

Step eight: bind up pipe

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



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

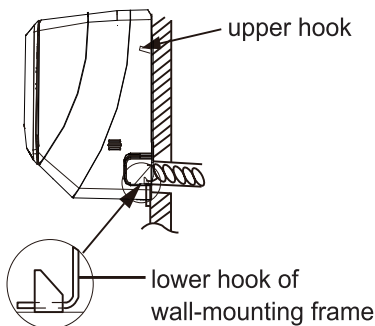
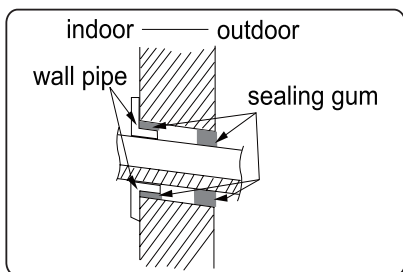
3. Bind them evenly.
4. The liquid pipe and gas pipe should be bound separately at the end.

Note:

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

Step nine: hang the indoor unit

1. Put the bound pipes in the wall pipe and then make them pass through the wall hole.
2. Hang the indoor unit on the wall-mounting frame.
3. Stuff the gap between pipes and wall hole with sealing gum.
4. Fix the wall pipe.
5. Check if the indoor unit is installed firmly and closed to the wall.



Note:

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

Installation of outdoor unit

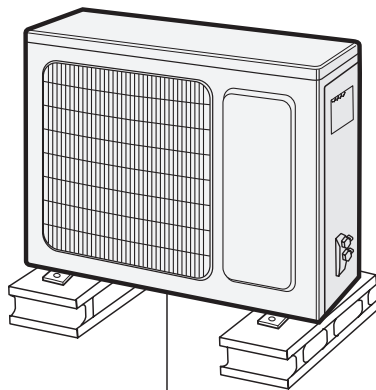
Step one: fix the support of outdoor unit

(select it according to the actual installation situation)

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

Note:

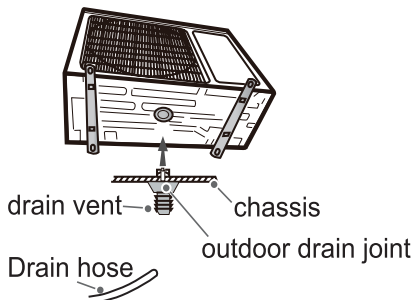
- Take sufficient protective measures when installing the outdoor unit.
- Make sure the support can withstand at least four times of the unit weight.
- The outdoor unit should be installed at least 3cm above the floor in order to install drain joint.
- For the unit with cooling capacity of 2300W ~5000W,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



at least 3cm above the floor

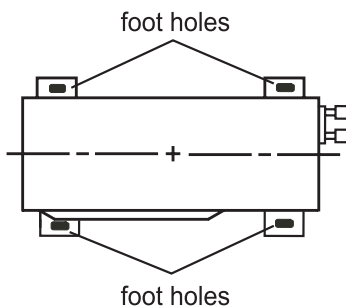
Step two: install drain joint (Only for cooling and heating unit)

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



Step three: fix outdoor unit

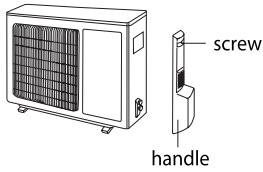
1. Place the outdoor unit on the support.
2. Fix the foot holes of outdoor unit with bolts.



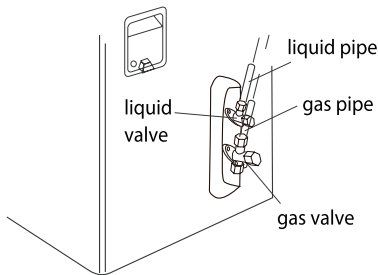
Installation of outdoor unit

Step four: connect indoor and outdoor pipes

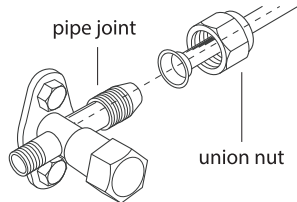
1. Remove the screw on the right handle of outdoor unit and then remove the handle.



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



3. Pretightening the union nut with hand.

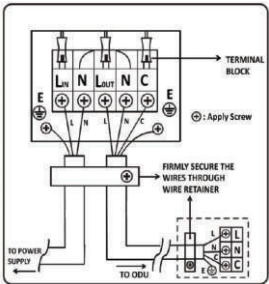
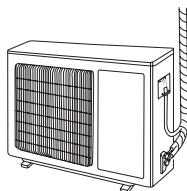


4. Tighten the union nut with torque wrench by referring to the sheet below.

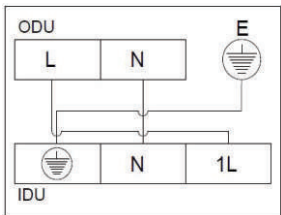
Hex nut diameter	Tightening torque (N·m)
Φ 6	15~20
Φ 9.52	30~40
Φ 12	45~55
Φ 16	60~65
Φ 19	70~75

Step five: connect outdoor electric wire

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



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Installation of outdoor unit

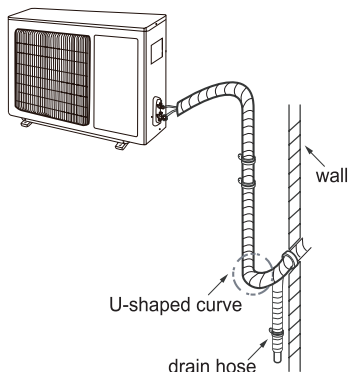
2. Fix the power connection wire and signal control wire with wire clip (only for cooling and heating unit).

Note:

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

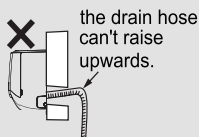
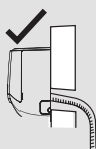
Step six: neaten the pipes

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

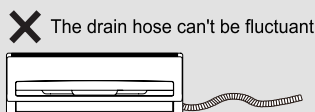
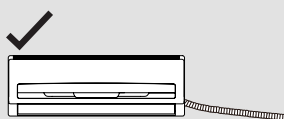
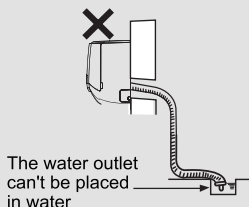


Note:

- The through-wall height of drain hose shouldn't be higher than the outlet pipe hole of indoor unit.
- Slant the drain hose slightly downwards. The drain hose can't be curved, raised and fluctuant, etc.



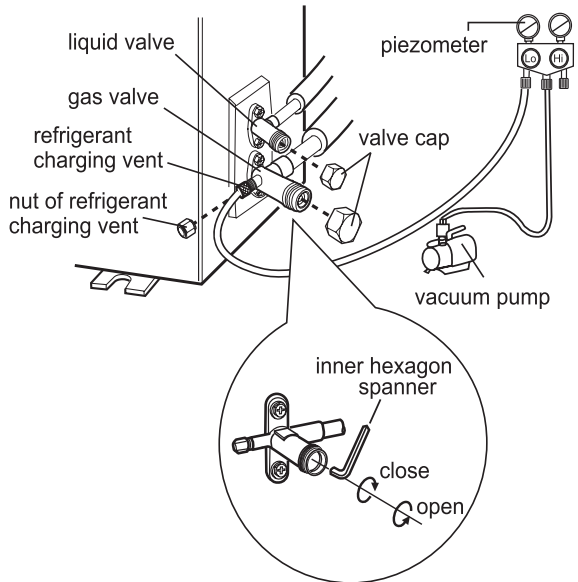
- The water outlet can't be placed in water in order to drain smoothly.



Vacuum pumping

Use vacuum pump

1. Remove the valve caps on the liquid valve and gas valve and the nut of refrigerant charging vent.
2. Connect the charging hose of piezometer to the refrigerant charging vent of gas valve and then connect the other charging hose to the vacuum pump.
3. Open the piezometer completely and operate for 10-15min to check if the pressure of piezometer remains in -0.1MPa .
4. Close the vacuum pump and maintain this status for 1-2min to check if the pressure of piezometer remains in -0.1MPa . If the pressure decreases, there may be leakage.
5. Remove the piezometer, open the valve core of liquid valve and gas valve completely with inner hexagon spanner.
6. Tighten the screw caps of valves and refrigerant charging vent.
7. Reinstall the handle.



Leakage detection

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

Check after installation

- Check according to the following requirement after finishing installation.

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

Test operation

1. Preparation of test operation

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

2. Method of test operation

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

Configuration of connection pipe

- 1. Standard length of connection pipe -- 3 m
- 2. Max length of connection pipe -- as given in below table

Sheet 1 Max length & height of connection pipe Unit: mtr

capacity	Max length of connection pipe	capacity	Max heighth of connection pipe
12000Btu/h (3516W)	15	12000Btu/h (3516W)	10
18000Btu/h (5274W)	15	18000 Btu/h (5274W)	10
24000 Btu/h (7030 W)	15	240000Btu/h (7030 W)	10

4. The calculation method of additional refrigerant oil and refrigerant charging amount after prolonging connection pipe
- After the length of connection pipe is prolonged for 10m at the basis of standard length, you should add 5ml of refrigerant oil for each additional 5m of connection pipe.
- The calculation method of additional refrigerant charging amount (on the basis of liquid pipe):
- (1) Additional refrigerant charging amount= prolonged length of liquid pipe × additional refrigerant charging amount per meter
 - (2) Basing on the length of standard pipe, add refrigerant according to the requirement as shown in the table. The additional refrigerant charging amount per meter is different according to the diameter of liquid pipe. See Sheet 2.

Configuration of connection pipe

Sheet 2. Additional refrigerant charging amount for R32

Diameter of connection pipe mm		Indoor unit throttle	Outdoor unit throttle	
Liquid pipe	Gas pipe	Cooling only, cooling and heating (g / m)	Cooling only (g / m)	cooling and heating (g / m)
Φ6	Φ9.5 or Φ12	16	12	16
Φ6 or Φ9.5	Φ16 or Φ19	40	12	40
Φ12	Φ19 or Φ22.2	80	24	96
Φ16	Φ25.4 or Φ31.8	136	48	96
Φ19	—	200	200	200
Φ22.2	—	280	280	280

Note: The additional refrigerant charging amount in Sheet 2 is recommended value, not compulsory.

Safety operation of flammable refrigerant

Qualification requirement for installation and maintenance man

- All the work men who are engaging in the refrigeration system should bear the valid certification awarded by the authoritative organization and the qualification for dealing with the refrigeration system recognized by this industry. If it needs other technician to maintain and repair the appliance, they should be supervised by the person who bears the qualification for using the flammable refrigerant.
- It can only be repaired by the method suggested by the equipment's manufacturer.

Installation notes

- The air conditioner is not allowed to use in a room that has running fire (such as fire source, working coal gas ware, operating heater).
- It is not allowed to drill hole or burn the connection pipe.
- The air conditioner must be installed in a room that is larger than the minimum room area. The minimum room area is shown on the nameplate or following table a.
- Leak test is a must after installation.

table a - Minimum room area (m²)

Minimum room area(m ²)	Charge amount (kg)	≤1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5
	floor location	/	14.5	16.8	19.3	22	24.8	27.8	31	34.3	37.8	41.5	45.4	49.4	53.6
	window mounted	/	5.2	6.1	7	7.9	8.9	10	11.2	12.4	13.6	15	16.3	17.8	19.3
	wall mounted	/	1.6	1.9	2.1	2.4	2.8	3.1	3.4	3.8	4.2	4.6	5	5.5	6
	ceiling mounted	/	1.1	1.3	1.4	1.6	1.8	2.1	2.3	2.6	2.8	3.1	3.4	3.7	4

Maintenance notes

- Check whether the maintenance area or the room area meet the requirement of the nameplate.
 - It's only allowed to be operated in the rooms that meet the requirement of the nameplate.
- Check whether the maintenance area is well-ventilated.
 - The continuous ventilation status should be kept during the operation process.
- Check whether there is fire source or potential fire source in the maintenance area.
 - The naked flame is prohibited in the maintenance area; and the "no smoking" warning board should be hanged.
- Check whether the appliance mark is in good condition.
 - Replace the vague or damaged warning mark.

Welding

- If you should cut or weld the refrigerant system pipes in the process of maintaining, please follow the steps as below:

Safety operation of flammable refrigerant

- a. Shut down the unit and cut power supply
 - b. Eliminate the refrigerant
 - c. Vacuuming
 - d. Clean it with N₂ gas
 - e. Cutting or welding
 - f. Carry back to the service spot for welding
- The refrigerant should be recycled into the specialized storage tank.
 - Make sure that there isn't any naked flame near the outlet of the vacuum pump and it's well-ventilated.

Filling the refrigerant

- Use the refrigerant filling appliances specialized for R32. Make sure that different kinds of refrigerant won't contaminate with each other.
- The refrigerant tank should be kept upright at the time of filling refrigerant.
- Stick the label on the system after filling is finished (or haven't finished).
- Don't overfilling.
- After filling is finished, please do the leakage detection before test running; another time of leak detection should be done when it's removed.

Safety instructions for transportation and storage

- Please use the flammable gas detector to check before unload and open the container.
- No fire source and smoking.
- According to the local rules and laws.

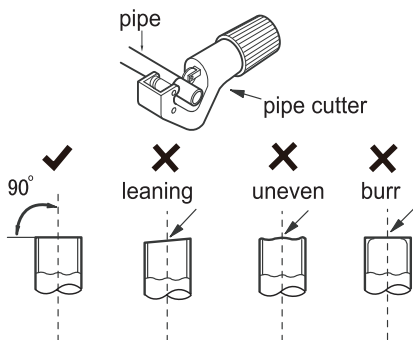
Pipe expanding method

Note:

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

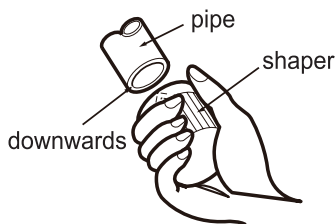
A: Cut the pipe

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



B: Remove the burrs

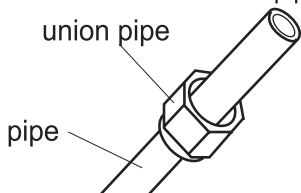
- Remove the burrs with shaper and prevent the burrs from getting into the pipe.



C: Put on suitable insulating pipe

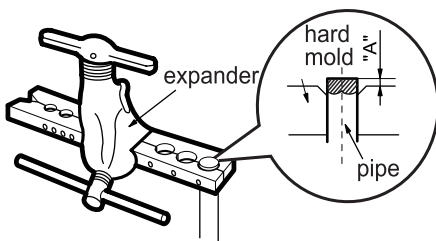
D: Put on the union nut

- Remove the union nut on the indoor connection pipe and outdoor valve; install the union nut on the pipe.



E: Expand the port

- Expand the port with expander.



Note:

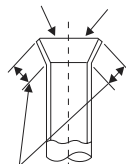
- "A" is different according to the diameter, please refer to the sheet below:

Outer diameter (mm)	A(mm)	
	Max	Min
Φ6 - 6.35(1/4")	1.3	0.7
Φ9.52(3/8")	1.6	1.0
Φ12-12.7(1/2")	1.8	1.0
Φ15.8-16(5/8")	2.4	2.2

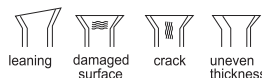
F: Inspection

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

smooth surface



improper expanding



the length is equal

Testing Frequency Setting Method

MODEL :- ALL INVERTER MODELS

Full Load Capacity

1. Switch on the AC
2. Remote setting to be done as:- Mode- "COOL", Fan Speed-"High" & Setting Temperature- "16°C"
3. Set vane position to 3rd step from top.
4. Continuously press the remote MODE button for Ten times.
5. After hearing a beep sound from the Indoor Unit.
6. Indoor unit whole Display will be blinking for four times then the unit will enter into Full Load.

Half Load Capacity

1. Switch on the AC
2. Remote setting to be done as:- Mode- "COOL", Fan Speed-"High" & Setting Temperature- "17°C"
3. Set vane position to 3rd step from top.
4. Continuously press the remote MODE button for Ten times.
5. After hearing a beep sound from the Indoor Unit.
6. Indoor unit whole Display will be blinking for four times then the unit will enter into Half Load.

NOTE :- This procedure is for LAB testing purpose at standard rated conditions, NOT for customer use. Do not try to set it or otherwise unit may malfunction.

INSTALLATION & SATISFACTION REPORT

Customer Name : _____
Address _____

Phone[O] _____ [R] _____

Unit Model	Unit Serial Number	Dealer Name

Invoice Number	Date of Purchase	Date of Installation

MCB Rating		Current (Amps.)	
Cable Size		Ambient Temp. (°C)	
Earthing		Room Temp. (°C)	
Stabiliser		Grill Temp. (°C)	
Input Voltage		Remote Operation	

Customer's Response : To be filled up by the Customer

1. Installation completed within:
12hrs(), 24 hrs(), 36 hrs (), more than 36 hrs ()
2. How did you find the behavior of the Engineer :
Excellent (😊), Good (😊), Not satisfied (😞)
3. Overall rating of the service:
Excellent (😊), Good (😊), Not satisfied (😞)
4. Suggestion if any:

Job Number	Engineer's Signature	Customer's Signature

WARRANTY TERMS AND CONDITIONS

M/S. MIRC ELECTRONICS LTD, WARRANTS THIS ONIDA AIR CONDITIONER[(except the front grill, knobs, remote unit and add-on plastic parts) TO THE ORIGINAL PURCHASER TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP WITHIN ONE YEAR FROM THE DATE OF PURCHASE AS PROVIDED IN THE WARRANTY REGISTRATION CARD.

WARRANTY FOR COMPRESSOR:

MIRC ELECTRONICS LTD, HEREAFTER WARRANTS TO THE PURCHASER OF THIS ONIDA AIR CONDITIONER THAT FOR A PERIOD OF SIXTY MONTHS FROM THE DATE OF INVOICE .

WE WILL REPAIR/REPLACE THE COMPRESSOR WHICH PROVES UPON INSPECTION BY US OR ANY OF OUR AUTHORISED SALES DEALERS TO HAVE BEEN DEFECTIVE DUE TO MANUFACTURING DEFECT.

This warranty is subject to terms and conditions as mentioned below:

1. This warranty shall be valid only for the said period of 12 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. Warranty does not cover accessories external to the equipment.
2. The warranty period specified above shall include time taken for repairs, replacements, break-downs, transit time etc. No notice of expiry period of warranty will be given by the company.
3. 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 any person or organization or agency or by the said purchaser himself other than the authorized representative of the company.
4. Parts of the unit replaced or repaired under the terms of this warranty are warranted only for the remaining period of the original warranty period.
5. 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 travelling 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 said purchaser and shall be payable in advance. Additionally, all expenses incurred by the authorized representative /dealer in collecting the said unit or any part thereof from such outstation locations and its return to the original location shall be borne by the said purchaser.
6. Any loss of refrigerant caused due to sabotage, improper handling or treatment , carelessness, accident, fire, flood earthquake or any natural calamity any corrosive action on the original refrigerant pipes, fittings, valves etc for whatever reasons, shall not be covered under this warranty.
7. 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 chargeable basis. However, in the event of any damage occurring to the unit or to any of its parts during the course of its transit by the said purchaser, repair or replacement, the said unit or any part thereof damaged shall not be covered by this warranty.

8. It shall be the absolute discretion of the company to a) effect the repairs or replacement of parts whether at the site of installation or at any service centre, and b) have the job attended to either by the Company's service personnel or its authorised dealer
9. This warranty is in the nature of and for the purpose of set forth herein above and in particular the Company shall not in any event be liable for direct, indirect, incidental or consequential loss or damages to either the said purchaser and/or his property or any other third party.
10. The AC is designed to operate at a range (230V +/- 10%). Any failure due to operation of the machine beyond these limits will not be covered by the above warranty.
Customer shall ensure that a stabilizer is installed in those areas where voltage is not available within the warranty range (230V +/- 10%). The stabilizer should be of any reputed manufacturer, tested and recommended by the Company.
11. The purchaser should preserve the original invoice for necessary verification and produce, as and when required.
12. Warranty null and void if:
 - i. The Air Conditioner is not purchased from the authorized dealers of the company.
 - ii. The Service Centre copy of warranty card is not received within 10 days of date of purchase at the nearest Authorized Service Centre.
 - iii. Any damage is caused by accident, mishandling, tampering with installation, or negligence in following instructions of the user manual issued by Company.
 - iv. Any damage is caused by improper electrical circuit outside the unit or by any defective electrical supply
 - v. At any time, during 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
 - vi. The serial number of the unit or any part thereof is damaged, defaced, altered, obliterated, or tampered with or removal for any reason whatsoever
 - viii. The unit is unauthorisedly moved from its original place of installation or re-installation
13. None of the employees and/or Authorized Dealers of the Company have any authority whatsoever to vary the terms and conditions of this warranty.
14. This warranty shall be deemed to have been issued at Mumbai, state of Maharashtra and courts at Mumbai shall have exclusive jurisdiction on matters covered by or following from this warranty, and the original purchaser alone shall have cause of action arising out of the transaction.

Preventive Maintenance Service

ONIDA

Customer Identification
Number: _____

Preventive Maintenance Service 1

Date: _____

Unit Model: _____

Customer Identification Number: _____

Sr. No: _____

Name of the customer: _____

Installation address: _____

Name of Serviceman: _____

Phone: _____ Mobile: _____ Fax: _____

Date: _____ Time: _____

E-mail: _____

Unit model: _____ Serial Number: _____

Service report number: _____

Sign. of Serviceman

Customer's Signature: _____ Name: _____

Preventive Maintenance Service

ONIDA

Customer Identification
Number: _____

Preventive Maintenance Service 2

Date: _____

Unit Model: _____

Customer Identification Number: _____

Sr. No: _____

Name of the customer: _____

Installation address: _____

Name of Serviceman: _____

Phone: _____ Mobile: _____ Fax: _____

Date: _____ Time: _____

E-mail: _____

Unit model: _____ Serial Number: _____

Service report number: _____

Sign. of Serviceman

Customer's Signature: _____ Name: _____

MIRC Electronics Limited

Warranty Card

Customer Copy

ONIDA

Serial No.

Customer Details

Title: Mr Ms Mrs M/s

Name:

Residence Address:

Dist: Pin:

State: Occupation:

Tel: () Res: () Fax:

Code Code

Mobile No: Email:

Product Details

Please Tick The Appropriate Product ☐ LCD TV ☐ AC ☐ Washing M/C. ☐ Microwave Oven

Model No:

Serial No

Please Refer Sticker On Back Cover Of Your Product

Purchase Date

Day Month Year

Bill No.

Dealer's Name & Address

Signature

I Accept The Terms And Conditions of The Warranty

Customer Signature

Thank you for selecting a World Class product and we assure you that it will perform as per your expectations

We thank you for taking your time to complete this form. All Information Provided by You will be Kept Confidential.

(Please Fill In, Tear off, Fold and Mail this form to Reach us within 10 days of the Product Purchase.)

We welcome your Valuable Suggestions, if any, to Improve our Products and Services :

FOR OFFICE USE ONLY

Customer Code:

Branch:

MIRC Electronics Ltd.

Note: Company Will Not Be Responsible For The Loss Of This Form During Transit.

For Other Details on Our Products & Services Log On To www.onida.com

MIRC Electronics Limited
Warranty Card

ONIDA

Serial No.

Service Centre Copy

Customer Details

Title: Mr ☐ Ms ☐ Mrs ☐ M/s ☐

Name:

Residence Address:

Dist: Pin:

State: Occupation:

Tel: () Res: () Fax:

Code Code

Mobile No: Email:

Product Details

Please Tick The Appropriate Product ☐ LCD TV ☐ AC ☐ Washing M/C. ☐ Microwave Oven

Model No:

Serial No

Please Refer Sticker On Back Cover Of Your Product

Purchase Date

Day Month Year

Bill No.

Dealer's Name & Address

Signature

I Accept The Terms And Conditions Of The Warranty

Customer Signature

Thank you for selecting a World Class product and we assure you that it will perform as per your expectations
We thank you for taking your time to complete this form. All Information Provided by You will be Kept Confidential.
(Please Fill In, Tear off, Fold and Mail this form to Reach us within 10 days of the Product Purchase.)

We welcome your Valuable Suggestions, if any, to Improve our Products and Services :

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Note: Company Will Not Be Responsible For The Loss Of This Form During Transit.

For Other Details on Our Products & Services Log On To www.onida.com



BUSINESS REPLY ENVELOPE

**ONIDA CUSTOMER RELATION
CENTRE MIRC Electronics Ltd.**

Onida House, G-1, MIDC, Mahakali Caves
Road, Andheri (East), Mumbai - 400 093.
India

Warranty Registration System

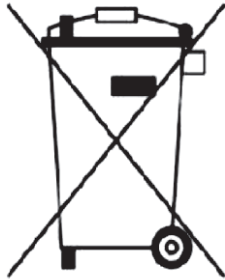
*Help us to serve you better by registering
your product for Warranty*

Web : www.onida.com

Telephone : Call Centre No. **7490955555**

E mail : customer.care@onida.com

Post / Visit Post the Warranty Registration Card & Service Centre
Copy or Visit the Nearest Service Centre.



As per the Government of India's E -Waste Management Rule 2016, End of Life Products intended to be discarded should be channelized for dismantling and recycling through authorized dismantler and recycler only, to ensure environmentally sound management of E - Waste.

It cannot be disposed off with the general Household Waste so as to prevent any damage to the environment.

To facilitate return of End of Life product visit our website www.onida.com for details or contact nearest authorized Service Center.

We request you to support us in our endeavour to ensure an environment friendly nation.

The model(s) mentioned in this user manual comply with RoHS regulations as per

'E- Waste (Management) Rules , 2016' .

Do not throw packaging waste of plastic and Expanded Polystyrene (Thermocol) material anywhere. Deposit in collection center or return it to MPCB/CPCB approved recycler. For more information see our website www.onida.com

ONIDA

MIRC Electronics Ltd.,

Onida House, G-1, MIDC, Mahakali Caves Road, Andheri (East), Mumbai – 400 093

Wi-Fi TABLE OF CONTENTS

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1. Smart Phone and WiFi Network Specification

- Android Smartphone with Android version 5.0 or higher
- IOS Smartphone with IOS version 9.0 or higher
- WIFI router with bandwidth 2.4Ghz

2. ONIDA i-Genius Mobile Application Download

2.1 Download the APP from Android smartphone from "Play store".



- Tap the "Play store" icon on your android smartphone.
- Type "ONIDA i-Genius" in the search bar and search the app.
- Tap on "Install" button to start the installation.
- Tap "Open" button to launch the app.

2.2 Download the APP from IOS smartphone from Apple "App Store".



App Store



- Tap the "App Store" icon on your IOS Smartphone.
- Type "ONIDA i-Genius" in the search bar and search the app
- Tap on "Install" button to start the installation.
- Tap "Open" button to launch the app.

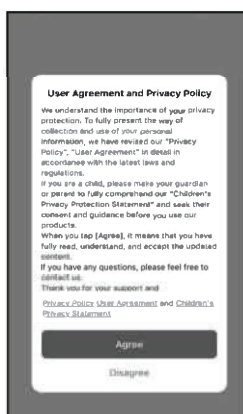
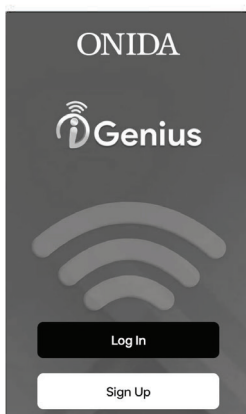
3. Setup and Installation

Before using Onida Smart AC, please complete the following configurations.

- Connect your smartphone with the WIFI network by selecting the WIFI network with which your Air Conditioner must be connected.
- WIFI network must be 2.4 GHz band and secured with a password.
- Turn ON the Location and Bluetooth of the smartphone.

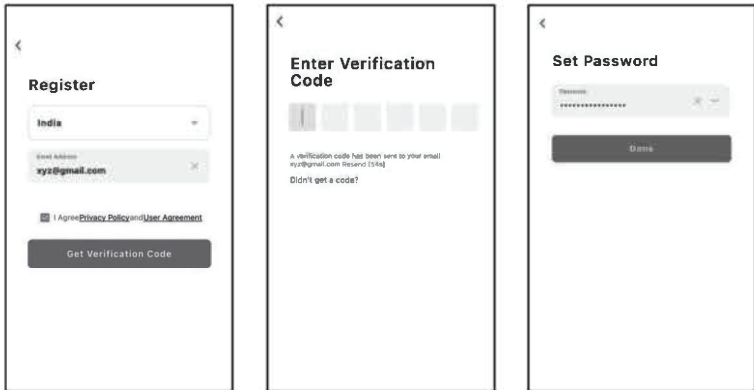
4. App Registration and Sign-in for New User

- Open the APP by tapping the ONIDA i-Genius icon in smartphone and follow below procedure
- Tap on "Sign Up" button to start new registration. Tap on "Agree" button to confirm privacy Policy.



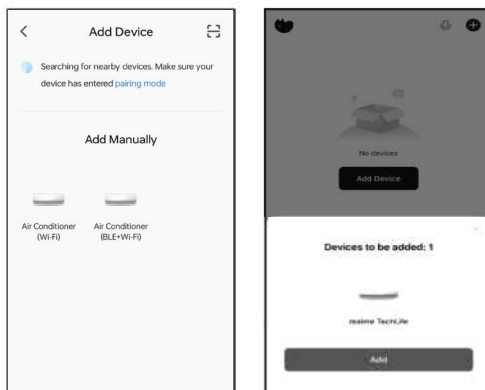
4.1 Registration process using E-mail.

- To register using e-mail, firstly choose your country name.
- Enter your respective E-mail ID.
- Tap on “Get Verification Code” to get verification code by e-mail.
- Enter the verification code to proceed further.
- Enter the desired password and tap on “Done”.



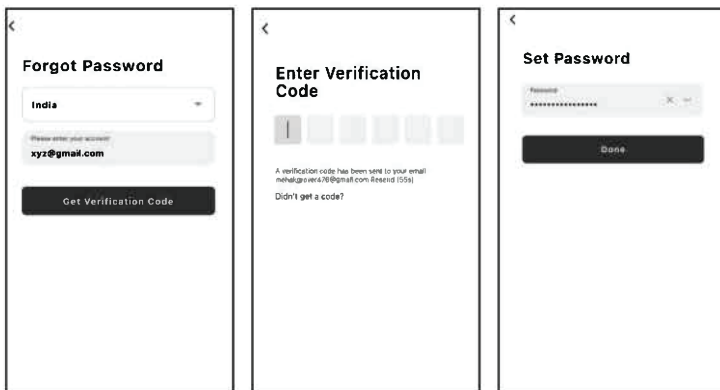
4.2 Log-In with existing account.

- Tap on "Log-In".
- Choose your country and enter registered E-mail and password to login.
- Tap on login to enter your existing registered account.



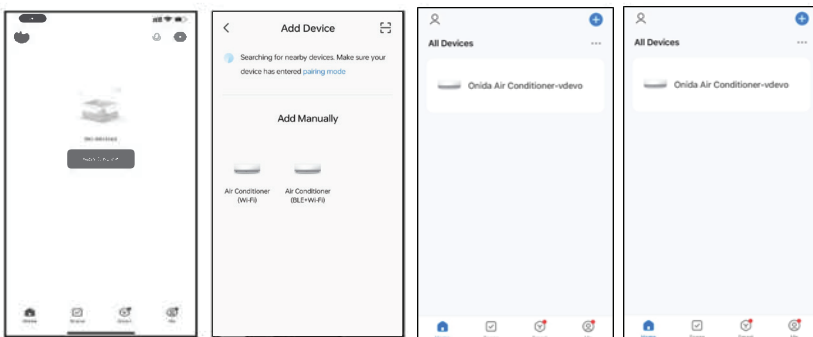
4.3 Forget Password

- Tap on “Forget Password”.
- Choose your country name and enter your existing E-mail Account Id.
- Tap “Get Verification Code” button.
- Enter the verification code that is sent to your email account to proceed further.
- Enter the desired password to set up and tap on “Done”.
- New password will be set, and you will be logged in your account.



5. Add Device and Setup

- Tap on “Add Device” button or “+ Button” on the top right corner to add Air Conditioner.
- Make Sure to Turn ON your “Bluetooth” and “Location”.
- Click on “Air Conditioner (BLE+WIFI)” button.
- After clicking on Air Conditioner, a setup menu will open.
- Follow the steps for Setup & App configuration.
- Click on Air Conditioner (BLE+WIFI)” button.

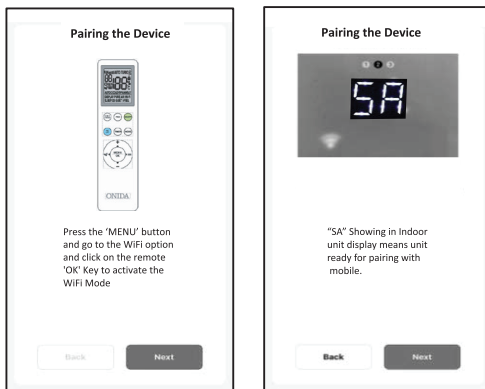


6. Setup & APP Configuration

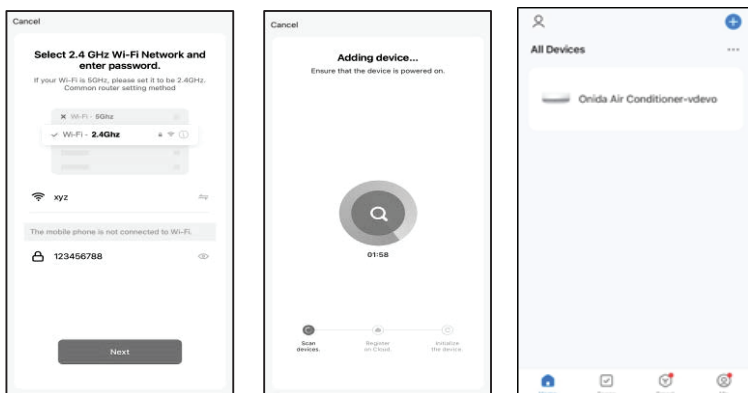
- Turn On the Air Conditioner using remote handset.
- On the Air Conditioner Remote Handset Press the **'MENU'** button and go to the WiFi option and click on the remote 'OK' Key to activate the WiFi Mode, a long beep sound comes & Display Shows 'SA' for 10 Sec.
- Air Conditioner will go into configuration mode and will show mode on the display.

6.1 APP Configuration

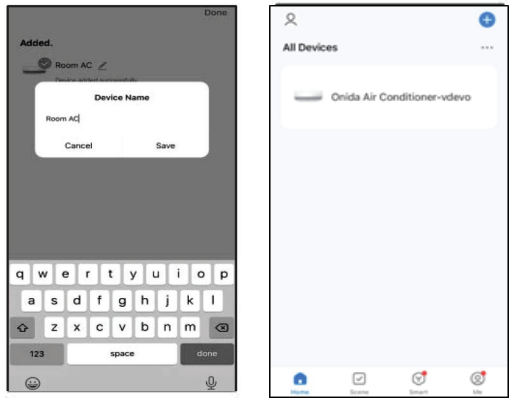
- For the device pairing, activate the WiFi mode using the remote handset & Indoor Display Shows 'SA' for 10 Sec.
- Tick on "Confirm the indicator is blinking rapidly" and proceed next.
- "SA" showing in Indoor unit display it means unit ready for pairing with mobile.



- Tap on "Go to Connect" button to connect your mobile phone with the same WIFI to which you need to connect the AC.
- Enter the WIFI username and password and tap on "Next" button to proceed further.
- APP will try to connect to the network details provided by the user.
- After successful completion, a message "Device Added Successfully" will be displayed in the mobile application.
- WiFi connection should be strong in room for smooth connectivity.



- To Rename the device, tap on Edit button.
- Rename and tap on “Save” button to save the name.

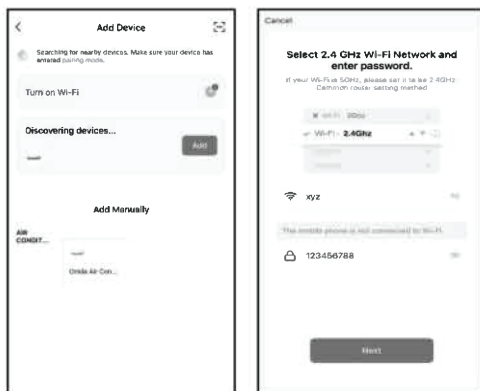


- In case the device addition is unsuccessful, below message will be displayed by the APP.
- Follow the above steps again to put the air conditioner into configuration mode.
-

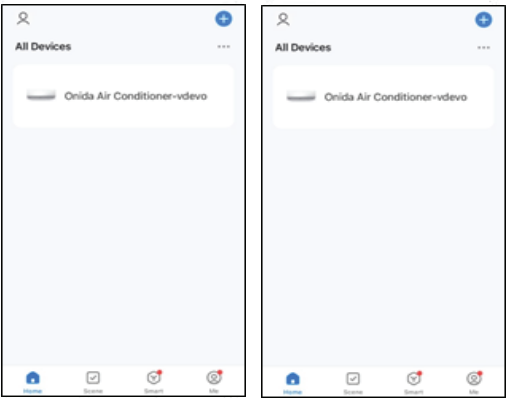


6.3 APP Configuration using Auto-Scan

- Tap on “Add Device” button or “+” Button on the Top-Right corner to add Air Conditioner.
- You will see the option to add AC Device on the “Add Device” page.
- Click on “Add Device”.

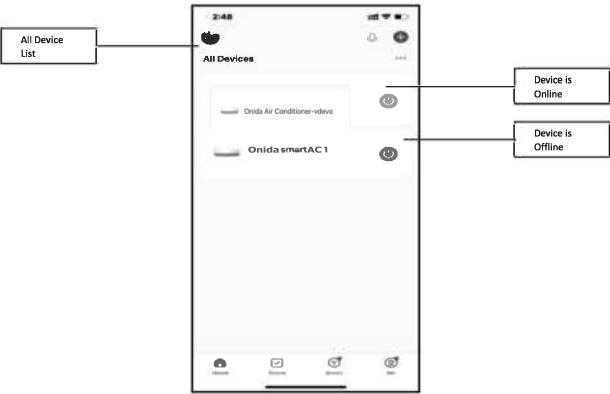


- Enter the WIFI username and password and tap on “Next” button to proceed further.
- APP will automatically check for the device to connect with Wi-Fi network.
- After successful completion, a message “Device Added Successfully” will be displayed in the mobile application.
- Tap on “Done” to complete configuration Process.



7. Device Menu & Device Status

- The APP UI shows all added devices along with the status of the devices.

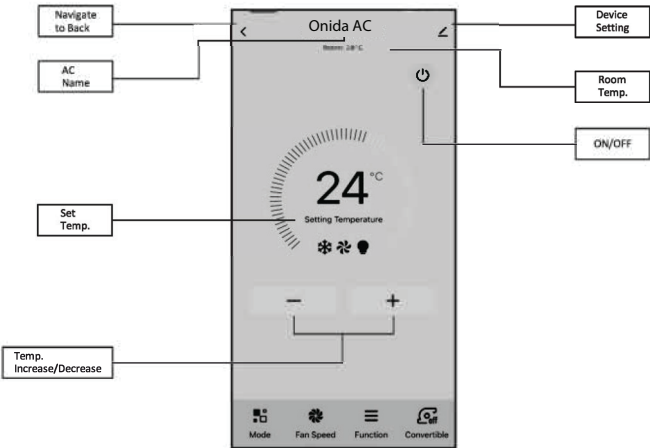


8. Overview of APP UI

8.1 APP Home Page Features



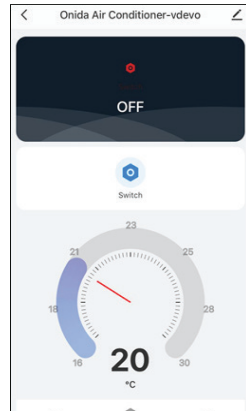
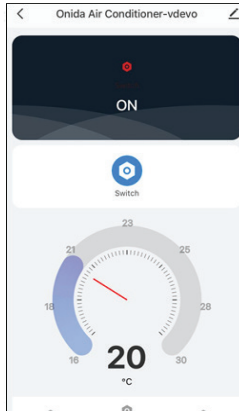
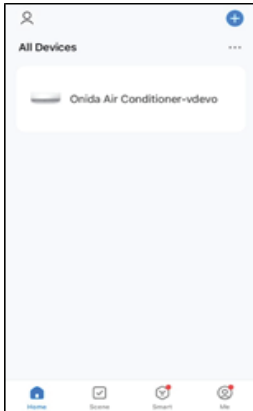
8.2 Air Conditioner Smart Remote-Control Unit



9. APP Features

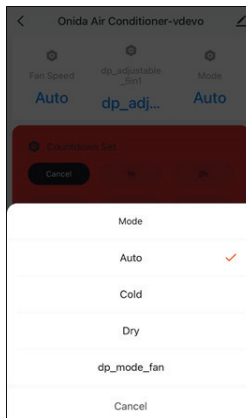
9.1 Power ON/OFF

- Press “Power” button to turn ON/OFF Air Conditioner.
- During ON condition, APP will show Indoor Temperature, Set Temperature, Mode, Fan Speed, and other selected functions on the dashboard.
- APP will display “OFF” state during Power Off condition and some function will be automatically disabled during power off.
- You can also turn ON/OFF the air conditioner from device menu.



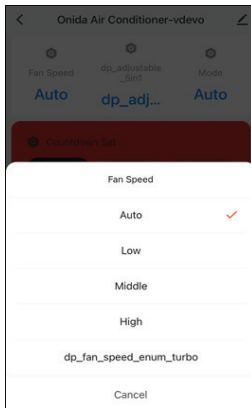
9.2 Mode

- Tap on "Mode" button to select different modes.
- Tap on Auto, Cool, Dry & Fan to select desired mode.



9.3 Fan Speed

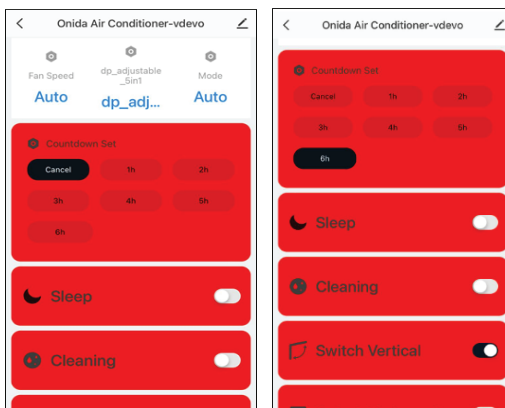
- Tap on "Fan Speed" button to select different fan speed.
- Tap on AUTO, LOW, MIDDLE, HIGH to select desired Fan speed.
- Some speeds will be disabled in some modes and functions.



9.4 Timer

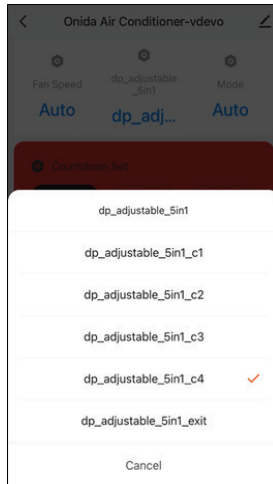
9.4.1 Count Down

- Tap on "Count Down" from APP Remote control, you will be directed to Count Down Page.
- During ON condition, Count Down OFF can be set by tapping on "AC OFF After".
- Slide left and right to select desired hour for Count Down OFF and tap on "Confirm" to save.
- After Count Down is set, machine will automatically shutdown after schedule time.



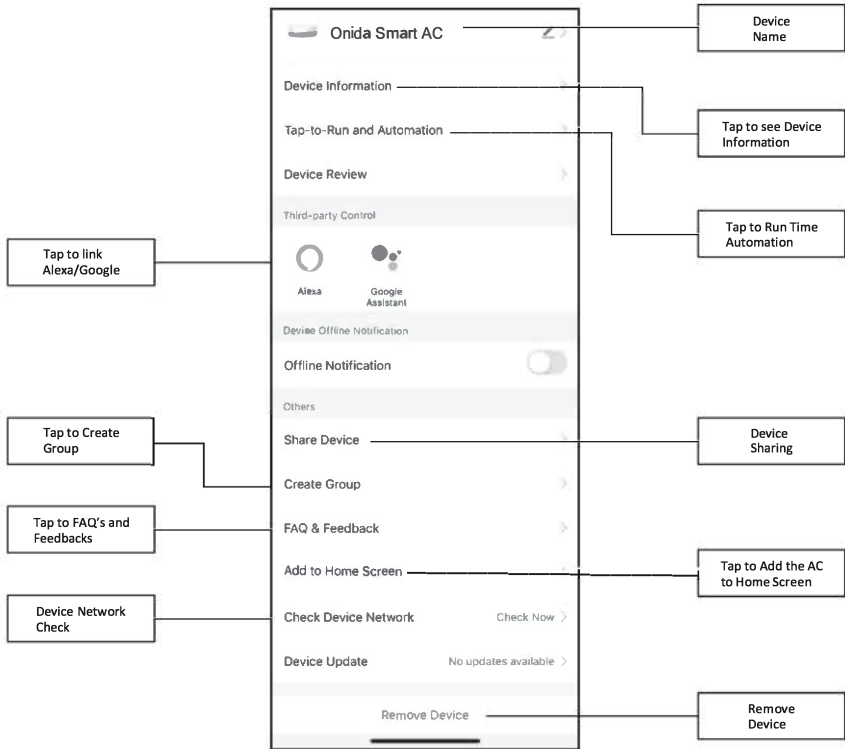
9.6 Adjustable

- Tap on "Adjustable" button to meet different cooling requirements.
- AC comes to desirable tonnage requirements the saving energy.



9.7 Device Menu

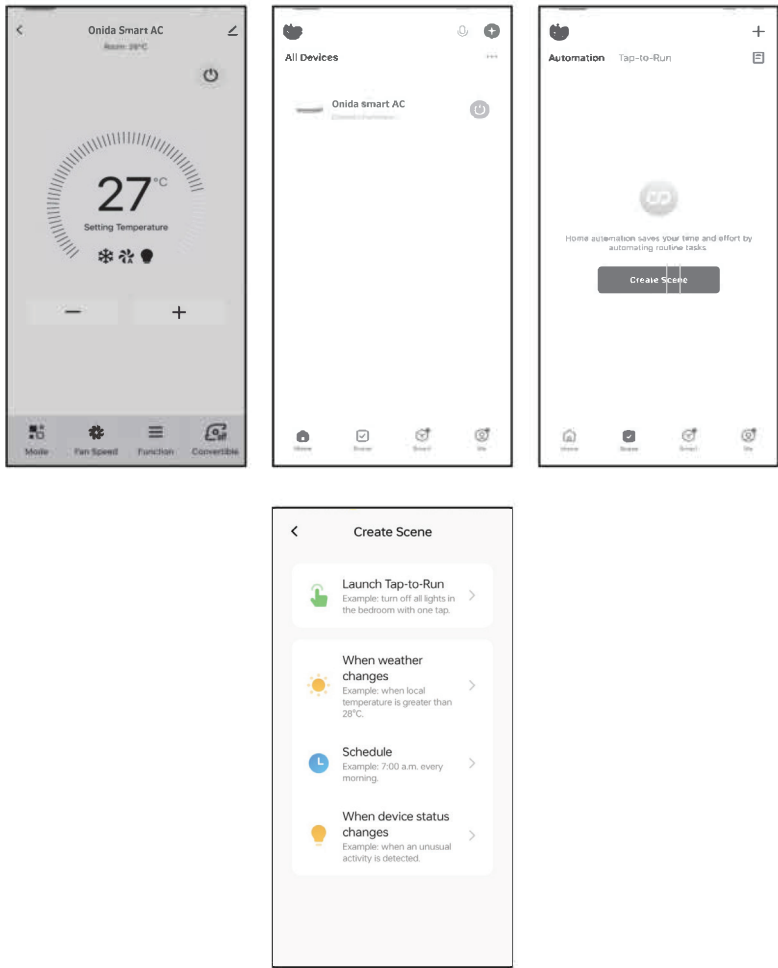
- Tap on Setting/Edit button to open device menu.



10. Automation

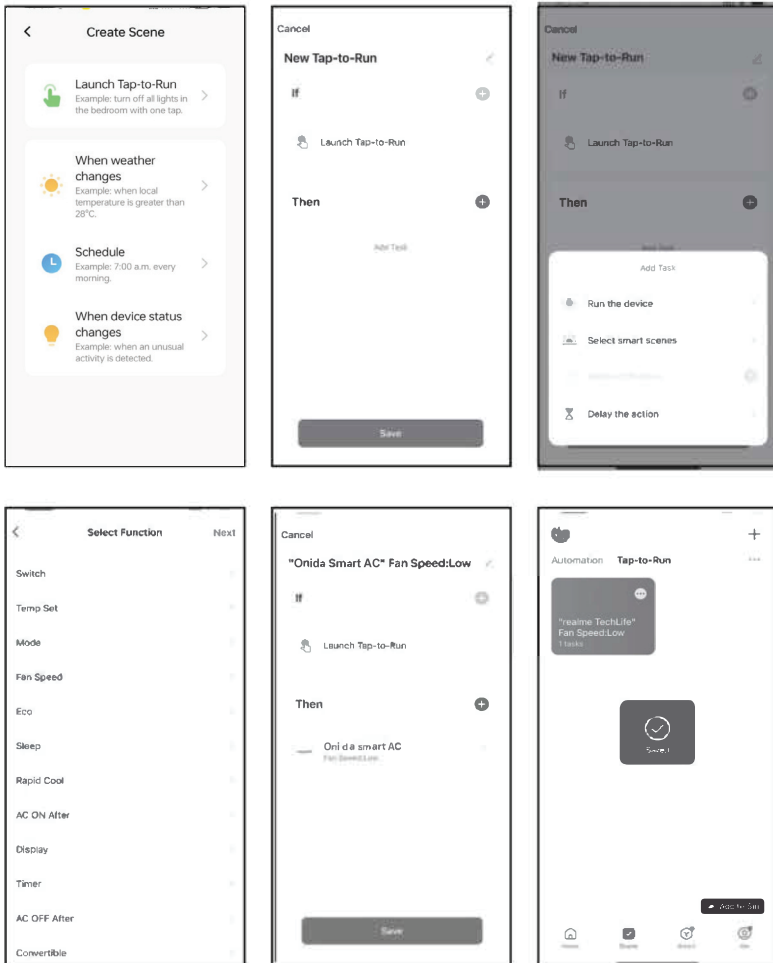
10. For automation Function

- Tap to Back Icon for “home page.”
- Tap on Scene Icon for Automation.
- Tap on “Crete Scene”
- Crete Scene will be displayed on Screen.



10.1 Launch Tap-to-Run.

- Tap on "Launch Tap-to-Run" to Create Automation.
- Tap on then Icon " "
- Tap on "Run the device".
- Select the "Functions" which you wants to create the Automation.
- After selection Press "Save" button.



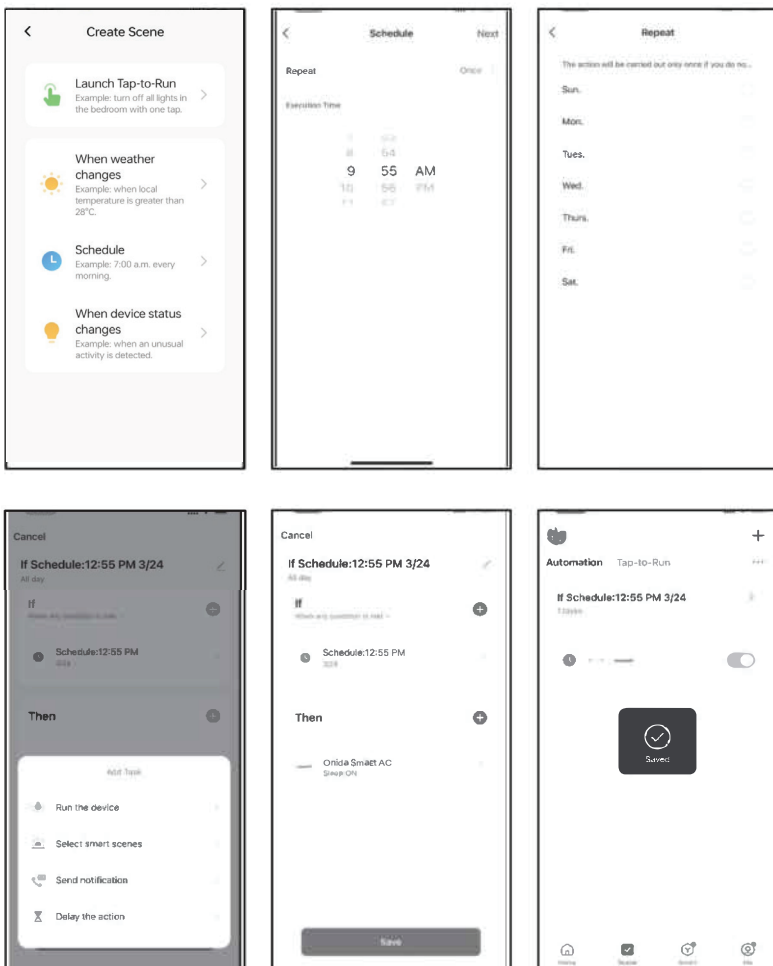
10.2 When Weather Changes.

- Tap on “When weather changes” function.
- Select the options -“temperature”, “Humidity”, “weather”, “sunset/sunrise” or “wind Speed”.
- Set on” Limits” of Selected options.
- After selection Press “Save” button.



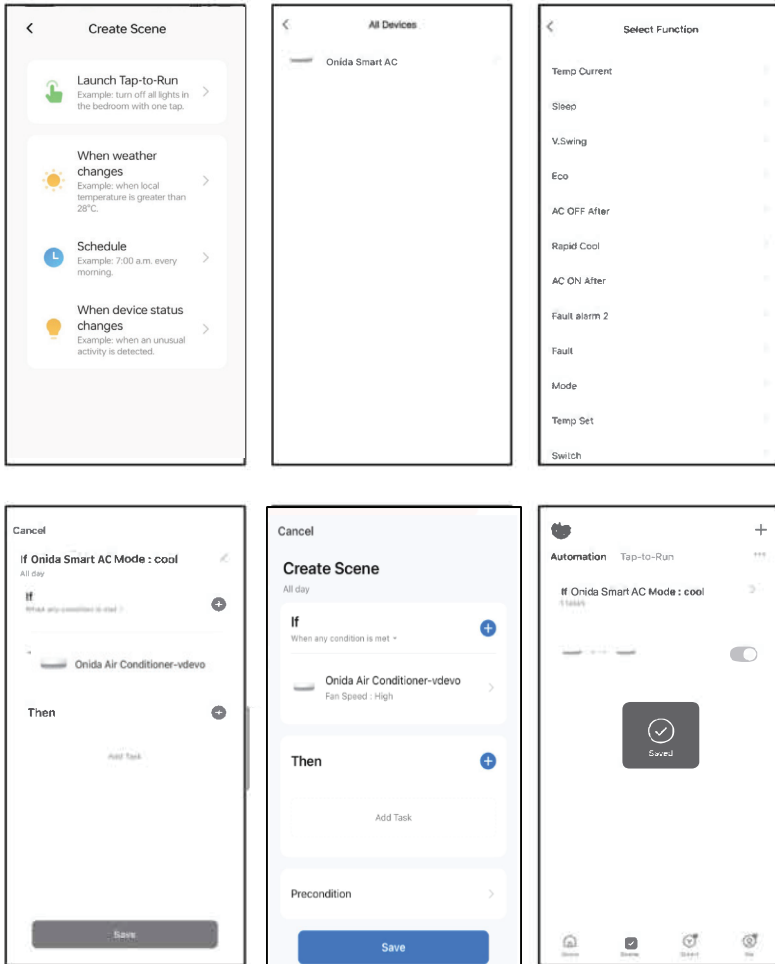
10.3 Schedule

- Tap on “Schedule” Functions.
- Select on “Execution time”
- Select on “Repeat” or “once”.
- Add task “which task you required”.
- Select “Save” button.



10.4 When Device Status Changes

- Tap on “When devices status changes” function.
- Select the “devices”.
- Select the functions “which you want to create”.
- Select “Save” button.



11. Important Note

- The above image may be different from the APP Interface.
- Regular updates or changes will be pushed over the air without any notice for quality improvement and fixing any bugs.
- App will work efficiently with proper signal strength and internet connectivity. Make sure that the Air Conditioner is installed near Wi-Fi router.
- Firewall may also cause the APP to stop working. In this case, contact your internet service provider.
- For more information or Help Center check “About” in Setting Menu.

12. Troubleshooting

- In case Air Conditioner configuration is unsuccessful check the following:
 1. Check if the Wi-Fi SSID and password are correct.
 2. Check for any firewall or any other restrictions in the network.
 3. Check if the router is placed in the range of Air Conditioner.
 4. Check the internet Connectivity of your Wi-Fi router.
- App is not working or the selected function is not reflecting on the Air Conditioner.
 1. Check if the Wi-Fi SSID and password are correct.
 2. Check for any firewall or any other restrictions in the network.
 3. Check if the router is placed in the range of Air Conditioner.
 4. Check the internet Connectivity of your Wi-Fi router.
 5. Check the Air Conditioner power supply.

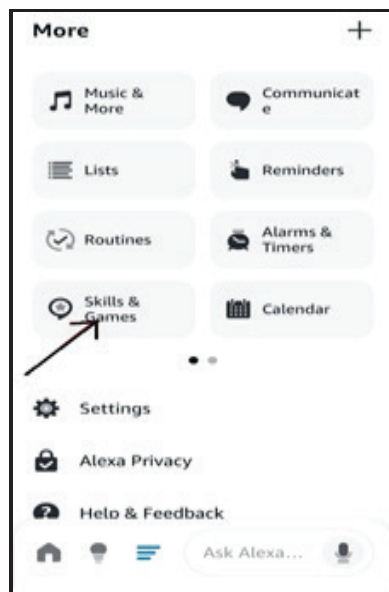
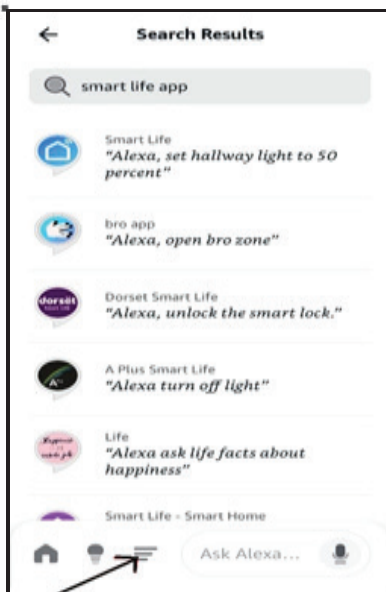
- **ALEXA & Google Assistant Account Linking Procedure And Voice Command**

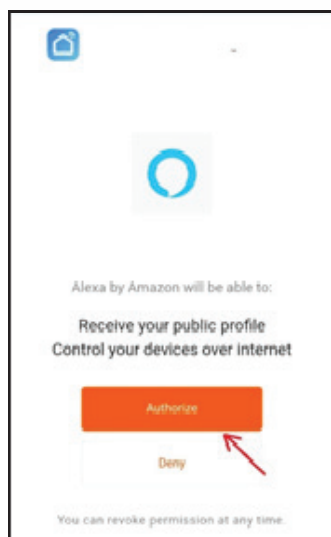
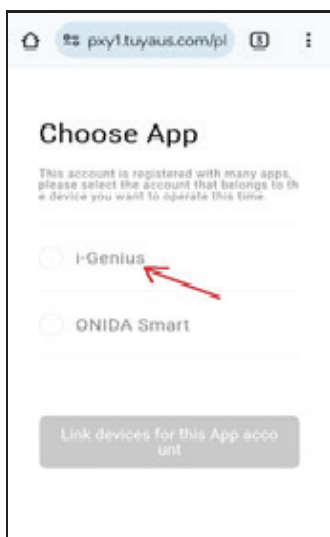
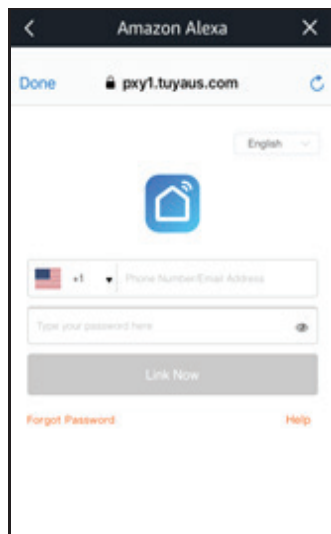
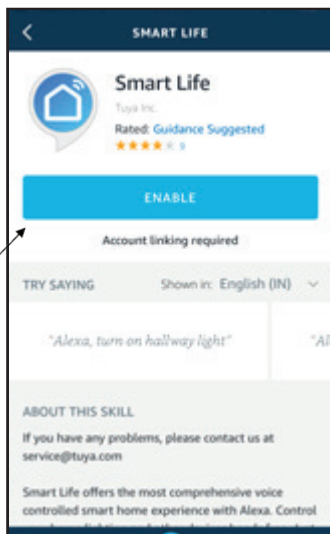
Since the ONIDA i-Genius App supports third-party Alexa Voice and Skill Services for seamless voice operation, the ONIDA i-Genius Home account must be integrated with Alexa Skills and Services.

- **Configure Amazon Alexa App with ONIDA I-Genius App :**

Download the 'Amazon Alexa' app from the Play Store, install it, and create an account. If you already have the app, there's no need to create a new account.

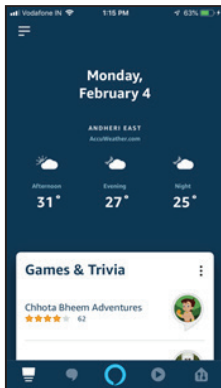
Account Linking Process: Open the Amazon Alexa app and tap the menu button in the bottom-left corner, as indicated by the arrow. Next, tap 'Skills & Games' as shown. Then, type 'ONIDA i-Genius' in the search bar and search for it. When the 'ONIDA i-Genius' icon appears, select it.. Once the 'ONIDA i-Genius' icon is selected, the next page will appear as shown below. Tap 'Enable' as indicated by the arrow. Then, select India as the country and enter your Onida Smart Home login credentials (username and password) to link your account.





After entering your username and password, select the I-Genius App account. Once the Alexa Skills & Services account is successfully linked, you are ready to use voice commands on the Alexa app

Go to the Alexa home page, tap the Alexa icon, and say, "Alexa, discover the devices." Alexa will search for your smart home devices and add them to the Alexa device list



- **Voice commands for Onida smart home Air conditioner control:**

Before proceeding, pls make sure product names are in easy English language like for example: bed room AC, dining AC, study room AC etc..

- **Voice command for Air conditioner:**

(xxxxxx-name of AC provided in **Onida smart app**)

1. Alexa, Switch on xxxxxxxx
2. Alexa switch off xxxxxxxx
3. Alexa, increase xxxxxxxx temperature
4. Alexa, Decrease xxxxxxxx temperature
5. Alexa, set xxxxxxxxx to --- deg -(required temp between 16deg to 30 deg)
6. Alexa, Set xxxxxxxxx to Auto Mode
7. Alexa, Set xxxxxxxxx to Cool Mode

- **Google Account Linking Process:**

1. Down load Google Home.
2. Follow the same process as Alexa done above and follow the steps to complete the process.
3. Once account linking process done then follow the below for voice command.

1. **Hey Google, Switch on xxxxxxxx**
2. **Hey Google, switch off xxxxxxxx**
3. **Hey Google, increase xxxxxxxx temperature**
4. **Hey Google, Decrease xxxxxxxx temperature**
5. **Hey Google, set xxxxxxxxx to --- deg -(required temp between 16deg to 30 deg)**
6. **Hey Google, Set xxxxxxxxx to Auto Mode**
7. **Hey Google, Set xxxxxxxxx to Cool Mode**

NOTE: The above user manual was explained briefly. You can get details demo during installation of the product. If any technical issues related voice operation and App operation, please feel free to write the below email address: Customer.care@onida.com or call :7490955555