

OPERATION MANUAL

airHome 400

**ROOM AIR CONDITIONER
SPLIT TYPE
DJ SERIES**

MODELS

RAK-DJ60PHAE
RAK-DJ70PHAE

EN INSTRUCTION MANUAL

Page 2-15

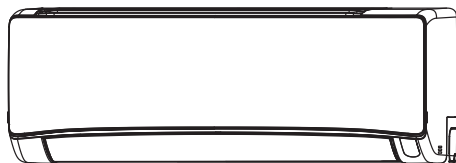
FR MANUEL D'INSTRUCTIONS

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الصفحة ٣٠-٤٧

العربية دليل التعليمات

HITACHI



(RC-AGU1EA0G)



Access the full version
of the User Operation Manual by
scanning the code.
More languages available.



[https://docs.hitachiaircon.com/
RAK-DJ-PHAE-RAC-DJ-PHAE](https://docs.hitachiaircon.com/RAK-DJ-PHAE-RAC-DJ-PHAE)




Cooling & Heating





air



SAFETY PRECAUTION






- Please read the "Safety Precaution" carefully before operating the unit to ensure correct usage of the unit.
- Pay special attention to signs of "**▲ Warning**" and "**▲ Caution**". The "Warning" section contains matters which, if not observed strictly, may cause death or serious injury. The "Caution" section contains matters which may result in serious consequences if not observed properly. Please observe all instructions strictly to ensure safety.
- The sign indicate the following meanings.

 Make sure to connect earth line.	 The sign in the figure indicates prohibition.
 Indicates the instructions that must be followed.	



 WARNING	This symbol shows that this equipment uses a flammable refrigerant. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.
 CAUTION	This symbol shows that the Operation Instructions should be read carefully.
 CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the Installation Manual.
 CAUTION	This symbol shows that there is information included in the Operation Manual and/or Installation Manual

- Please keep this manual after reading.







PRECAUTIONS DURING INSTALLATION

 WARNING	<ul style="list-style-type: none"> • Do not reconstruct the unit. Water leakage, fault, short circuit or fire may occur if you reconstruct the unit by yourself.  • Please ask your sales agent or qualified technician for the installation of your unit. Water leakage, short circuit or fire may occur if you install the unit by yourself.
	<ul style="list-style-type: none"> • Please use earth line. Do not place the earth line near water or gas pipes, lightning-conductor, or the earth line of telephone. Improper installation of earth line may cause electric shock.  • Be sure to use the specified piping set for R32. Otherwise, this may result in broken copper pipes or faults. • Do not use refrigerant other than the one indicated on the outdoor unit (R32) when installing, moving or repairing. Using other refrigerants may cause trouble or damage to the unit, and personal injury.
 CAUTION	<ul style="list-style-type: none"> • A circuit breaker should be installed depending on the mounting site of the unit. Without a circuit breaker, the danger of electric shock exists.  • Do not install near location where there is flammable gas. The outdoor unit may catch fire if flammable gas leaks around it. • Please ensure smooth flow of water when installing the drain hose. • Do not install the indoor unit in a machine shop or kitchen where vapor from oil or its mist flows to the indoor unit. The oil will deposit on the heat exchanger, thereby reducing the indoor unit performance and may deform and in the worst case, break the plastic parts of the indoor unit.

PRECAUTIONS DURING SHIFTING OR MAINTENANCE

 WARNING	<ul style="list-style-type: none"> • Should abnormal situation arises (like burning smell), please stop operating the unit and turn off the circuit breaker. Contact your agent. Fault, short circuit or fire may occur if you continue to operate the unit under abnormal situation.  • Please contact your agent for maintenance. Improper self maintenance may cause electric shock and fire.
	<ul style="list-style-type: none"> • Please contact your agent if you need to remove and reinstall the unit. Electric shock or fire may occur if you remove and reinstall the unit yourself improperly. • If the supply cord is damaged, it must be replaced by the special cord obtainable at authorized service/parts centers. • If the air conditioner is not cool, one possible cause could be due to refrigerant leakage, so consult your dealer. The refrigerant gas used in the air conditioner is harmless. But if refrigerant gas leaks into the room, harmful products are generated when in contact with fire from appliances such as a stove heater. When there is refrigerant gas accumulation in the room, immediately stop the air conditioner. Open the windows for ventilation and contact your agent.

PRECAUTIONS DURING OPERATION

 WARNING	<ul style="list-style-type: none"> • Avoid an extended period of direct air flow for your health. 
	<ul style="list-style-type: none"> • Do not insert a finger, a rod or other objects into the air outlet or inlet. As the fan is rotating at a high speed, it will cause injury. Before cleaning, be sure to stop the operation and turn the breaker OFF. 
	<ul style="list-style-type: none"> • Do not use any conductor as fuse wire, this could cause fatal accident. 
	<ul style="list-style-type: none"> • During thunder storm, disconnect and turn off the circuit breaker.  • Spray cans and other combustibles should not be located within a meter of the air outlets of both indoor and outdoor units. As a spray can's internal pressure can be increased by hot air, a rupture may result. 

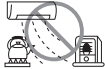
PRECAUTIONS DURING OPERATION

- The product shall be operated under the manufacturer specification and not for any other intended use.



- Do not attempt to operate the unit with wet hands, this could cause fatal accident.

- When operating the unit with burning equipments, regularly ventilate the room to avoid oxygen insufficiency.



- Do not direct the cool air coming out from the air-conditioner panel to face household heating apparatus as this may affect the working of apparatus such as the electric kettle, oven etc.

- Please ensure that outdoor mounting frame is always stable, firm and without defect. If not, the outdoor unit may collapse and cause danger.



- Do not splash or direct water to the body of the unit when cleaning it as this may cause short circuit.

- Do not use any aerosol or hair sprays near the indoor unit. This chemical can adhere on heat exchanger fin and blocked the evaporation water flow to drain pan. The water will drop on tangential fan and cause water splashing out from indoor unit.



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- Please switch off the unit and turn off the circuit breaker during cleaning, the high-speed fan inside the unit may cause danger.

- Turn off the circuit breaker if the unit is not to be operated for a long period.



- Do not climb on the outdoor unit or put objects on it.

- Do not put water container (like vase) on the indoor unit to avoid water dripping into the unit. Dripping water will damage the insulator inside the unit and causes short-circuit.



- Do not place plants directly under the air flow as it is bad for the plants.

- When operating the unit with the door and windows opened, (the room humidity is always above 80%) and with the air deflector facing down or moving automatically for a long period of time, water will condense on the air deflector and drips down occasionally. This will wet your furniture. Therefore, do not operate under such condition for a long time.

- If the amount of heat in the room is above the cooling or heating capability of the unit (for example: more people entering the room, using heating equipments and etc.), the preset room temperature cannot be achieved.

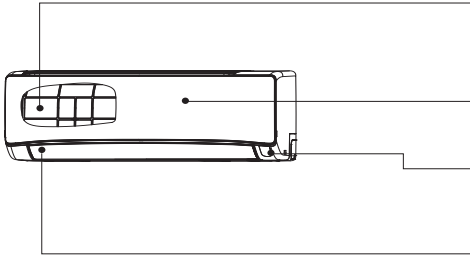
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Operation Range

Operation mode	Cooling/Dehumidifying	Heating
Outdoor temperature	-10 to 46°C	-15 to 21°C

Names and Functions of Each Part

Indoor Unit



Pre-filter

To prevent dust from coming into the indoor unit.
(Refer page 12)

Front panel

(Refer page 13)

Indoor unit indicators

Light indicator showing the operating condition.
(Refer page 5)

Horizontal deflector, Vertical deflector (Air Outlet)



Remote controller

Send out operation signal to the indoor unit. So as to operate the whole unit.

Model Name and Dimensions

MODEL	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)
RAK-DJ60PHAE RAK-DJ70PHAE	950	294	230

Names and Functions of Each Part

Indoor Unit Indications



Operation Lamp (Yellow)

This lamp lights during operation. The Operation Lamp flashes in the following cases during heating.

- (1) **During preheating**
For about 2-3 minutes after starting up.
- (2) **During defrosting**
Defrosting will be performed about once an hour when frost forms on the heat exchanger of the outdoor unit, for 5-10 minutes each time.

Timer Lamp (Orange)

This lamp lights when the timer is working.

Wi-Fi Lamp (Blue)

Clean Function Lamp (Green)

This lamp uses for FrostWash, Mold Guard, Filter Sign.

Temporary Switch

Use this switch to start and stop when the remote controller does not work.

- By pressing the temporary switch, the operation is done in automatic mode.
- When the operation is done using the temporary switch after the power source is turned off and turn on again, the operation is done in automatic mode.

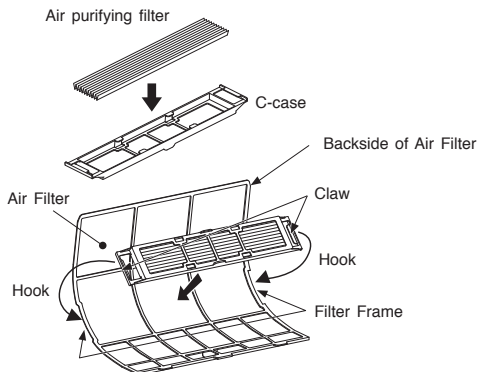
CAUTION

Turn off the circuit breaker if the unit is not be operated for a long period.

☆ If the power stays on and the unit is not operated, power is slightly consumed in the control circuit. The power is saved by turning off the power switch (or the circuit breaker when the power is supplied from the outdoor unit).

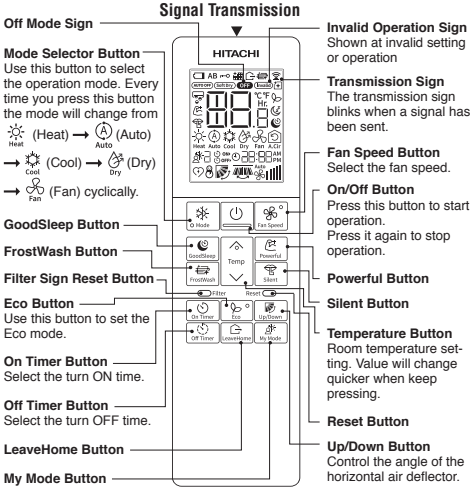
Attaching the air purifying filters (Accessories) to the filter frame.

- Attach the air purifying filters to the C-case to the designated position.
- The cooling capacity is slightly weakened and the cooling speed becomes slower when the air purifying filters are used.
- The air purifying filters are not washable. It is recommended to use vacuum to clean. It can be used for 1 year. When you want to renew it, please ask your sales agent.



Names and Functions of Remote Controller

This controls the operation function and timer setting of the room air conditioner. The range of control is about 7 meters. If indoor lighting is controlled electronically, the range of control may be shorter.



Backlight function

- Backlight is to see the LCD readings in the dark.
- On Pressing any key, the LCD panel lights up for a period of approx. 10 seconds. After approx. 10 seconds the light automatically switches off.
- The function is independent of all other functions of the air conditioner.
- The backlight color is white.

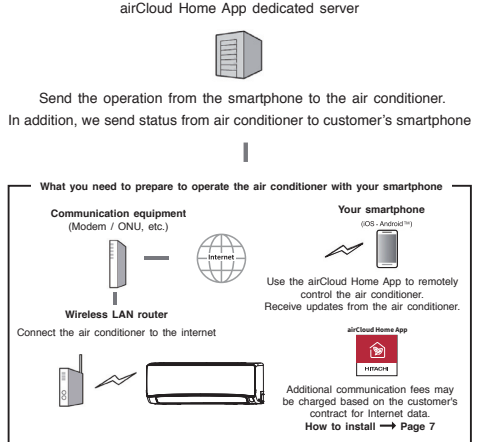
Precautions for Use

- Do not put the remote controller under direct sunlight and high temperature.
- Do not drop it on the floor, and protect it from water.
- If you press the FUNCTION button during operation, the air conditioner may stop for about 3 minutes for protection before you can start it again.

Operate Air Conditioner with Smartphone

Built-in airCloud Home module

airCloud Home is a cloud-based solution for remotely controlling your Hitachi air conditioning system via smart phone. You can operate the air conditioner from outside the home with your smartphone and check the operating status.



What You Should Confirm When Using the Service

Internet environment at home

- In order to use the service, FTTH (optical fiber) ADSL / CATV (cable TV) and other Internet services, a broadband line capable of communication is required. Not available on dial-up lines.
- For details on Internet connection, contact your provider or carrier. Please check your contract.
- Internet communication charges are the responsibility of the customer.

Smartphone

- iOS (iPhone, etc.) 10.0 / Android 8.0 or later (as of December 2021).
- To confirm the OS version, check on your smart phone, or contact your smart phone manufacturer.
- Make sure that you can connect to the router with wireless LAN.
- Tablets are not guaranteed to work.

Wireless LAN router (Hereinafter router)

- Please use a router that supports the 2.4GHz band.
- For security, be sure to use a router that can set the encryption method WPA2 or WPA (either TKIP or AES). We recommend the WPA2 (AES) encryption method. For the setting procedure, refer to the instruction manual of the router.
- Routers that support only WEP cannot be used.
- Mobile routers are not guaranteed to work.

Initial Settings

Please install the airCloud Home app on your smartphone

- (1) Search for the airCloud Home app
 - For Android models: Open Google Play. Android is a trademark and registered trademark of Google LLC.
 - For iOS models (iPhone): Open the App Store. iPhone is a trademark and registered trademark of Apple Inc.
- (2) Please install according to the screen
 - In order to use the dedicated app, you need to read and agree to the Terms of Service.
 - To dedicated application is free of charge, but to download the application, the data charges as per the internet provider or smart phone network provider charges apply.
 - The names and icons of the dedicated apps are as of September 2021. It may be changed by updating the application.

Notes:

- The first registered user becomes group administrator by default and manage other users and also set access rights for other users.
- When using with multiple users, the registered user should invite other users to register.

Notes on Wireless LAN

⚠ WARNING

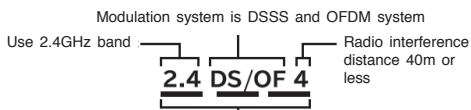
- **Do not enable remote features near those with a cardiac pacemaker or defibrillator**
If it is too close, radio waves may affect the operation of pacemakers and other devices.

Use frequency band

In the frequency band used by this air conditioner, in addition to industrial, scientific and medical equipment such as microwave ovens, private radio stations for identification of mobile objects (radio stations that require a license) and special Low power radio stations (radio stations that do not require a license) and amateur radio stations (radio stations that require a license) are in operation.

- (1) Before using this air conditioner, make sure that local radio stations for identification of mobile objects, specified low-power radio stations and amateur radio stations are not operating nearby.
- (2) If any harmful radio interference occurs from the air conditioner to the mobile station identification radio station, immediately stop using the radio wave and contact below to consult about measures for avoidance.
- (3) In addition, if you have any problems such as harmful radio interference from the air conditioner to the specified low power radio station for identifying the moving object or amateur radio station. Please contact us.

How to use frequency



It means that the entire band from 2.400 GHz to 2.4835 GHz can be used and the band of the mobile identification device can be avoided.

Equipment certification

This air conditioner has a built-in wireless device that has been approved for construction design based on the Radio Law, so a license for a wireless station is not required. However, the following acts are prohibited by the Radio Law.

- Disassemble / modify wireless device.
- Remove the main unit nameplate.
- Erase the indication on the nameplate of the main unit.

Security measures

- Since wireless LAN transmits and receives using radio waves, there is a risk of unauthorized access. Please take security measures for the wireless LAN router (hereinafter, router) to ensure data security. Please note that we do not take any responsibility if a problem occurs without implementing security measures.
- We recommend that you set a password (encryption key) for the router of at least 8 characters and no more than 63 characters. (Refer to the instruction manual of the router for the limitation of the number of characters.) When you change the password (encryption key), change the setting according to "When the router is replaced" in the airCloud Home app.

About firmware

- This air conditioner has the function of connecting to our server through the Internet and automatically updating its firmware to the latest version. During the update, wireless communication may be interrupted and communication may be interrupted or can be slow.
- Do not analyze or modify the firmware.

Usage restrictions

Please note the following restrictions on use. The Company will not be liable for any failure to observe the restrictions or for any incidental damage resulting from the use or inability to use the air conditioner.

- Do not connect to wireless networks for which you do not have usage rights. Unauthorized wireless networks (*SSID) that you do not have permission to use may be displayed during automatic search of the wireless network environment.
 - ☆ SSID is a name to identify a specific network in wireless LAN. If this SSID matches on both devices, communication is possible.
- Do not use where magnetic fields, static electricity or radio interference may occur. If used near the following devices, communication may be interrupted or the speed may decrease. Please use as far as possible.
 - Microwave oven during cooking
 - Bluetooth compatible device
 - Other wireless LAN devices (wireless WEB cameras, PC devices, etc.) except the router (wireless LAN router) that communicates with this air conditioner.
- If the air conditioner is surrounded by a metal object, or if there is an object such as metal or reinforced concrete that cannot pass radio waves between itself and the router, it may not be able to communicate due to the reception of radio noise or a short range.

Information about Using Wireless LAN

- The air conditioner can be operated from a place that is not directly visible. Therefore, for example, a situation may occur where a person in the room turns ON while another person turns OFF from outside. Especially when infants, children, the elderly, the sick, or the physically handicapped are indoors, use it when a person who can manage it is nearby. In addition, before using, please understand the condition of the room before operating.

- Your smartphone and air conditioner communicate data via our server using the Internet. Therefore, due to the condition of the communication line of your mobile phone company or provider, the setting of your router, or the stop of service due to maintenance of the airCloudHome server, data communication may not be possible, and the system may not or delay operate.
- After connecting the air conditioner to the router, you can perform data communication. To use, you will incur the broadband internet charges and your smartphone network provider charges as per the customer contract.
- If the air conditioner is not operated for a long time or if the home internet network has been completely shut down, it is advisable to initialize the airCloud Home module and reconnect the same.
- Please do not inform other people about the SSID / KEY of this air conditioner.
- Our company guarantees repair of this air conditioner under certain conditions. However, we do not guarantee that stored data is lost or damaged.
- This air conditioner stores network setting information. When disposing of this air conditioner, initialize the built-in airCloud Home module (Refer to page 11 Restore Factory Setting).
- Customers are responsible for resolving any deficiencies in the Internet and wireless environment at home.
- If you operate the air conditioner using the App, some of the set functions may be canceled. Check the web page for details.

SSID & KEY Label Paste

SSID & KEY label details of Air conditioner's built-in airCloud Home module is pasted here for your reference. Please keep it safe for future requirements during pairing process and please write down the installation location (like living room, bed room, etc.) on the label. The AC type is "2" that is for models with a built-in airCloud Home module.

SSID&KEY label paste position	
SSID: KEY: TYPE:2	
Installation location: _____	

About Software License

The software installed in this air conditioner is composed of multiple independent software modules, and each software module has the copyright of Johnson Controls Air Conditioning (Herein after referred to as “the Company”) and a third party. This air conditioner also contains software modules developed or created by us, but these software and accompanying documents have proprietary rights and intellectual property rights of our company. These are protected by copyright law and other laws.

Initial Setting of App

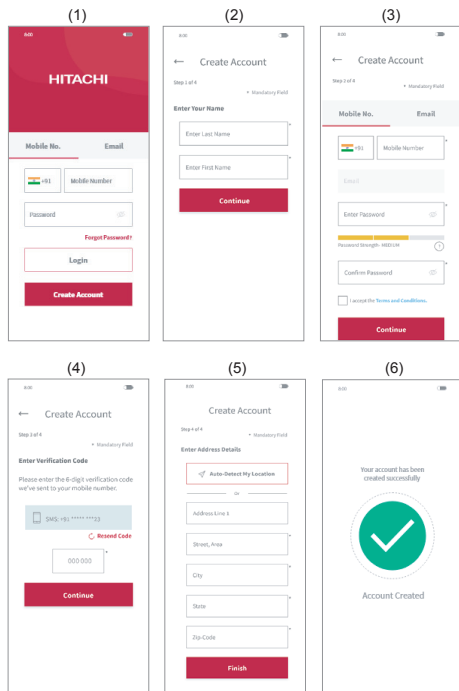
Installation of App

Go to Google Play or the Apple Store (depending on your smartphone) and download the “airCloud Home” Application

- Please read and agree to “the Terms of Use” on the App.
- The App is free. Communication charges will be incurred for download and operation as per the local cell phone provider.
- Android is a trademark and registered by Google LLC.
- iPhone is a trademark and registered by Apple Inc.
- QR code is a trademark and registered by DENSO WAVE Inc.

Registration on App

- (1) Click “Create Account”.
- (2) Enter your name and click “Continue”.
- (3) Enter your mobile number and password (or click “E-mail” tab, and enter your E-mail address and password), read the “terms and conditions” and check on the box, click “Continue”.
- (4) Enter received verification code you received and click “Continue”.
- (5) Click “Auto-Detect My Location” or Enter address details manually, and click “Finish”.
- (6) The account has been created successfully.



Note:

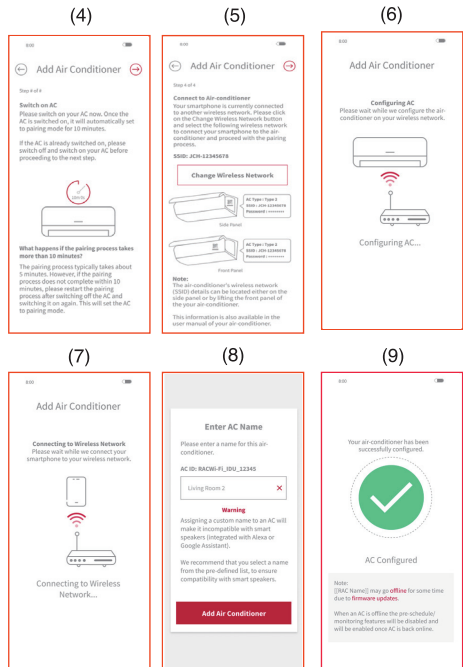
The first registered user can manage all the users and set access rights as a group owner. Group owner can invite others to register.

Air Conditioner Registration and Router Connection

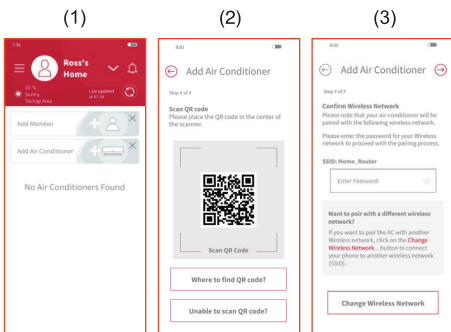
Make sure that the air conditioner is plugged in, then follow the steps below to add your air conditioner device to the App.

- (1) Click “Add Air Conditioner” on the top screen after registration and login your App.
- (2) Scan QR code on the bundled SSID & KEY label in this user manual or by lifting the front panel of your air conditioner.
- (3) If the SSID shown on the App is your home router, enter your home router password, click “Next”. Otherwise, click “Change Wi-Fi Network”, select your home router enter password and click “Next”,

- (4) Switch ON your air conditioner now. Once your air conditioner is switched on, or reset the internal settings (restore the factory settings) by remote control, it will automatically set into pairing mode for 10 minutes. Wi-Fi LED on air conditioner's panel (see diagram in status indicator section) will blink for 3 times repeatedly showing air conditioner is in pairing mode. Wi-Fi LED keeps blinking till communication with Wi-Fi router is succeeded. When the airCloud Home module reset operation is performed through the remote control, the pairing mode can be entered without restarting the air conditioner.
- (5) Click "Change Wi-Fi Network", select the Wi-Fi access point of the Built-in airCloud Home module with SSID printed on the bundled SSID&KEY Label, input password (the KEY). Click right arrow icon on the screen top to continue for connecting your smart phone with the Adapter.
- (6) Waiting for the built-in airCloud Home module to connect to your home router. When communication is established, Wi-Fi LED on panel will be continuously ON after blinking.
- (7) Waiting for the Smartphone to connect with your home network. If your Smartphone is connected to another wireless network then click on Change Wireless Network & select home network.
- (8) Please assign a name to your registered air conditioner. If you assign a custom name to your air conditioner, it will not be compatible with your smart speaker (integrated with Alexa or Google Assistant), so we recommend that you select a name from the pre-defined list.
- (9) Your air conditioner has been successfully configured.



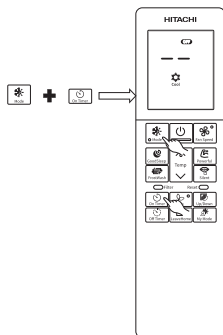
- (1) If communication cannot succeed within 10 minutes, please follow the instructions of the App to complete the pairing process again.
- (2) If a user in the group has already registered some air conditioning units, the other users in the same group can also control the unit.
- (3) If the air conditioning is not configured with router, at power on unit enters into pairing mode every time for 10 minutes with Wi-Fi indication blinking for 3 times.
- (4) If the air conditioning is already configured with router, and router detection is available then at power on, unit will skip the pairing mode & try to connect to router.
- (5) Please enter the SSID name of the air-conditioner to proceed with the pairing process if unable to scan QR code.



Initialization of the Built-in airCloud Home Module

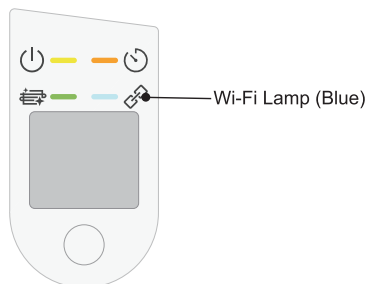
Reset the internal settings (restore the factory settings) by remote controller. Please note that the configuration will be cleared and pairing procedure will be required to do again to use the built-in airCloud Home module.

- (1) Pressing Mode key & On Timer key of remote controller together for 3 seconds in off mode, pointing the remote controller towards air conditioner unit.
- (2) Make sure Wi-Fi LED on Indoor Unit Indications flash 4 times repeatedly for about 20 seconds and turns off.
- (3) Restart the unit & check Wi-Fi LED flashes 3 times. This ensures that unit enters into pairing mode & restoring factory setting has succeeded.



Status Indicator (LED Indicator may light up while the air conditioner is turned off)

Wi-Fi Lamp	Corresponding Status
LED OFF	<ul style="list-style-type: none"> ● Pairing time out occurs (after 10 mins.) & configured router not detected. ● Air conditioner is not plugged in. ● Built-in airCloud Home module and the air conditioner is not connected.
LED ON	<ul style="list-style-type: none"> ● The connection between the Built-in airCloud Home module and the router is completed. ● The operation can be conducted through smartphone.
LED flashes 3 times	Waiting to connect to the Wi-Fi router using AP mode.
LED flashes 4 times	Restoring factory setting procedure has started.
LED flashes 5 times	Communication error between air conditioner & Built-in airCloud Home module (Error detection time: approx 24 mins.)
LED flashes with 4 sec ON/ 1 sec OFF	Router connection error.
LED flashes with 4 sec ON/ 3 sec OFF	Cloud connection error. (Error detection time: approx 30 mins.)



Indoor Unit Indications: Wi-Fi LED

Note:

- Please try to power OFF/ON your air conditioner from mains switch when an error occurs.
- Wi-Fi is a trademark or registered trademark of the "Wi-Fi" Alliance.

Information

Capabilities

Heating Capability

- This room air conditioner utilizes a heat pump system that absorbs exterior heat and brings it into a room

CAUTION

Do not use a stove or any other high temperature devices in proximity to the indoor unit.



to be heated. As the ambient temperature gets lower, heating capability will also lower. In such a situation, the inverter work to increase compressor rpm to keep the unit's heating capability from decreasing. If the unit's heating performance is still unsatisfactory, other heating appliances should be used to augment this unit's performance.

- The air conditioner is designed to heat an entire room so that it may take some time before you feel warm. Timer operation is recommended for effective preheating ahead of the desired time.

Cooling and Dehumidifying Capabilities

- If the heat present in a room exceeds the unit's cooling capacity (for example, if there are many people in the room or other heating appliances are used), the preset room temperature may not be reached.

Refrigerant Information

- For the refrigerant charge information, please refer to the outdoor unit installation manual or specification label.



MAINTENANCE

CAUTION

Cleaning and maintenance must be carried out only by qualified service personnel. Before cleaning, stop operation and switch off the power supply.

1. PRE-FILTER

Clean the Pre-filter, as it removes dust inside the room. In case the Pre-filter is full of dust, the air flow will decrease and the cooling capacity will be reduced. Further, noise may occur. Be sure to clean the Pre-filter following the procedure below.

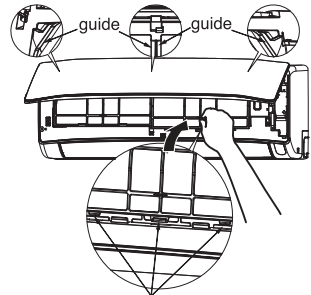
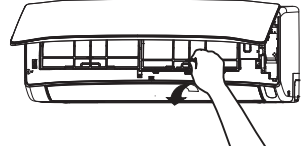
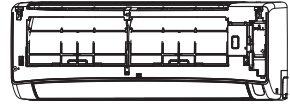
PROCEDURE

- 1 Open the front panel and remove the Pre-filter
 - Gently lift and remove the air purifying filters from the air purifying filter frame.

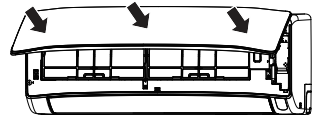
- 2 Vacuum dust from the Pre-filter and air purifying filter using vacuum cleaner. If there is too much dust, rinse under running tap water and gently brush it with soft bristle brush. Allow filters to dry in shade.



- 3
 - Re-insert the air purifying filter to the filter frame. Set the Pre-filter with "FRONT" mark facing front, and slot them into the original state.
 - After attaching the Pre-filters, push the front panel at three arrow portions as shown in figure and close it.



insert the hook to the hole



NOTE:

- Air purifying filter should be cleaned every month or sooner if noticeable loading occurs. When used overtime, it may lose its deodorizing function. For maximum performance, it is recommended to replace it every 1 year depending on application requirements.

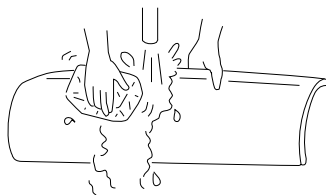
CAUTION

- Do not operate the air conditioner without Pre-filter. Dust may enter the air conditioner and fault may occur.

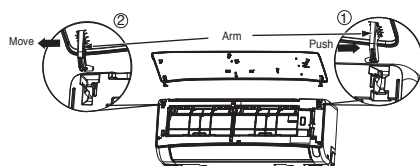
2. CLEANING OF FRONT PANEL

- Remove the front panel and wash with clean water. Wash it with a soft sponge. After using neutral detergent, wash thoroughly with clean water.
- When front panel is not removed, wipe it with a soft dry cloth. Wipe the remote controller thoroughly with a soft dry cloth.
- Wipe the water thoroughly. If water remains at indicators or signal receiver of indoor unit, it causes trouble.

Method of removing the front panel.
Be sure to hold the front panel with both hands to detach and attach it.

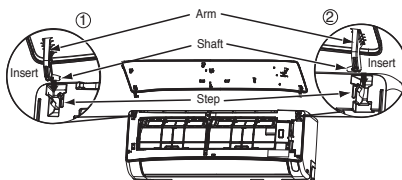


Removing the Front Panel



- When the front panel is fully opened with both hands, push the right arm to the outside to release it, and while closing the front panel slightly, pull it out forward.

Attaching the Front Panel



- Move the projections of the left and right arms into the Flanges in the unit and securely insert them into the holes.

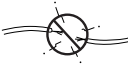

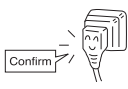
CAUTION

- Never use hot water (above 40°C), benzene, gasoline, acid, thinner or a brush, because they will damage the plastic surface and the coating.



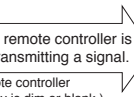
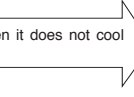
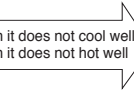
Regular Inspection

PLEASE CHECK THE FOLLOWING POINTS BY QUALIFIED SERVICE PERSONNEL EITHER EVERY HALF YEARLY OR YEARLY. CONTACT YOUR SALES AGENT OR SERVICE SHOP.


1		Is the earth line disconnected or broken?
2		Is the mounting frame seriously affected by rust and is the outdoor unit tilted or unstable?
3		Is the plug of power line firmly plugged into the socket? (Please ensure no loose contact between them).

AFTER SALE SERVICE AND WARRANTY


WHEN ASKING FOR SERVICE, CHECK THE FOLLOWING POINTS

CONDITION	CHECK THE FOLLOWING POINTS
 If the remote controller is not transmitting a signal. Remote controller display is dim or blank.)	<ul style="list-style-type: none"> ● Do the batteries need replacement? ● Is the polarity of the inserted batteries correct?
 When it does not cool well	<ul style="list-style-type: none"> ● Is the fuse all right? ● Is the voltage extremely high or low? ● Is the circuit breaker "ON"? ● Is the setting of operation mode different from other indoor units?
 When it does not cool well When it does not hot well	<ul style="list-style-type: none"> ● Is the pre-filter blocked with dust? ● Does sunlight fall directly on the outdoor unit? ● Is the air flow of the outdoor unit obstructed? ● Are the doors or windows opened, or is there any source of heat in the room? ● Is the set temperature suitable? ● Are the air inlets or air outlets of indoor and outdoor units blocked? ● Is the fan speed "LOW" or "SILENT"?

FrostWash Operation

FrostWash Operation does not start	It does not wash when outside temperature is less than about 1 degrees Celsius or more than 43 degrees Celsius. It does not wash when the humidity in the room is about 30% or less or about 70% or more. When "FrostWash" is done by operating a remote controller, it does not wash when the room temperature is less than about 10 degrees Celsius or more than about 32 degrees Celsius. When 60 minutes after the end of "FrostWash", "FrostWash" is not operated for product protection.
Noise occurred during FrostWash operation	It is the sound that the internal machine is inflated and contracted by the temperature change and the fin of the heat exchanger is frozen and thawed
 (Clean Function Lamp) blinks	Repeat for 1 second on and 1 second off for 10 seconds Because "FrostWash" can not work when operating the "FrostWash" with remote controller. <ul style="list-style-type: none"> ● The air conditioner is operating ● Outside air temperature, room temperature and room humidity are not suitable for "FrostWash" ● It has not been over 60 minutes since the end of "FrostWash" Repeat for 4 seconds on and 1 second off for 15 seconds Because FrostWash has not been done for a long time. → Operate the remote controller to operate "FrostWash".

Mold Guard Operation

Mold Guard operation does not start	If the air conditioner operation is stopped after heating operation, Mold Guard will not operate. If the air conditioner has operated in cooling and drying mode, including auto mode, for less than 10 minutes, the Mold Guard operation will not start even if the air conditioner is in off mode. If operation of the air conditioner is stop by OFF Timer or GoodSleep Timer, the Mold Guard will not operate. If ON Timer is set and on time is within about 2 hours, the Mold-Guard will not operate.
During Mold Guard	 (Clean Function Lamp) on the indoor unit lights up during Mold Guard operation. If Mold Guard operation stop at middle point, FrostWash and Filter sign indicator will turn off.

Notes	The horizontal deflector remain open. Room temperature or humidity may rise. Depending on situation, Mold Guard will operate with Fan Mode. When there would be the window near indoor unit, the water might condense on the window during Mold Guard. If necessary, to cancel Mold Guard. When after FrostWash operation, the water inside the indoor unit evaporates and depending on the room conditions, may emitted as steam. But this is not a malfunction. If necessary, to cancel Mold-Guard.
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The OPERATION lamp is flashing	Shows preheating or defrosting operation is underway. As the protective circuit or preheat sensor operates when unit operation is stopped during preheating and then restarted, or when operation mode is switched from cooling to heating, the lamp continues to blink.
Does not reach the temperature setting	Actual room temperature may deviate slightly from the remote controller's temperature setting depending on the number of people in the room, indoor or outdoor conditions.


■ The following phenomena do not indicate unit failure.

During heating, the operation indicator blinks and air blow stops	<Operation start> The unit is preparing to blow warm air. Please wait. <In operation> The outdoor unit is defrosting. Please wait.
Hissing or fizzy sounds	Refrigerant flow noise in the pipe or valve sound generated when flow rate is adjusted.
Squeaking noise	Noise generated when the unit expands or contracts due to temperature changes.
Rustling noise	Noise generated with the indoor unit fan's rpm changing such as operation start times.
Clicking noise	Noise of the motorized valve when the unit is switched on.
Perking noise	Noise of the ventilation fan sucking in air present in the drain hose and blowing out dehumidifying water that had accumulated in the condensed water collector. For details, consult your sales agent.
Changing operation noise	Operation noise changes due to power variations according to room temperature changes.
Mist emission	Mist is generated as the air within the room is suddenly cooled by conditioned air.
Steam emitted from the outdoor unit	Water generated during defrosting operation evaporates and steam is emitted.
Odors	Caused as the smells and particles of smoke, food, cosmetics, etc. present in room air become attached the unit and blown off into the room again.
The outdoor unit continues to operate even if operation is stopped.	Defrosting is underway (as the heating operation is stopped, the microcomputer checks frost accumulated in the outdoor unit and instructs the unit to perform automatic defrosting if necessary).

If the unit still fails to operate normally after performing the above inspections, turn the circuit breaker off and contact your sales agent immediately.

Contact your sales agent immediately if the following phenomena should occur

- The circuit breaker switches off or the fuse blows frequently.
- The switch operation is not stable.
- Foreign matter or water accidentally enters the unit interior.
- The power cord gets excessively hot or its insulation is torn or stripped.
- TIMER lamp on the indoor unit display blinks. (As the nature of the failure can be identified by the blinking cycle, check the blinking cycle before turning off the circuit breaker.)




Notes

- In quiet operation or stopping the operation, the following phenomena may occasionally occur, but they are not abnormal for the operation.
 - (1) Slight flowing noise of refrigerant in the refrigerating cycle.
 - (2) Slight rubbing noise from the fan casing which is cooled and then gradually warmed as operation stops.
- The odor will possibly be emitted from the room air conditioner because the various odor, emitted by smoke, foodstuffs, cosmetics and so on, sticks to it. So the pre-filter and the evaporator regularly must be cleaned to reduce the odor.

Please contact your sales agent immediately if the air conditioner still fails to operate normally after the above inspections. Inform your agent of the model of your unit, production number, date of installation. Please also inform him regarding the fault.

Please note:
On switching on the equipment, particularly when the room light is dimmed, a slight brightness fluctuation may occur. This is of no consequence.
The conditions of the local Power Supply Companies are to be observed.