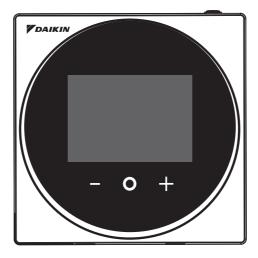




Wired Remote Controller

Installation Manual



MODEL BRC1H71W

- Be sure to read before conducting the installation of this product, and conduct installation according to this manual.
- Refer to this manual together with the installation manual of the indoor unit.

It is possible to perform settings of some functions from a smart phone app.

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Safety Considerations

The original instructions are written in English. All other languages are translations of the original instructions.

All phases of the field-installation, including, but not limited to, electrical, piping, safety, etc. must be in accordance with manufacturer's instructions and must comply with national, state, provincial and local codes.

Read these SAFETY CONSIDERATIONS carefully before installing the remote controller.

After completing the installation, ensure that the remote controller operates properly during startup operation.

Train the customer to operate and maintain the remote controller. Inform customers that they should store this Installation Manual with the Operation Manual for future reference.

Always use a licensed installer or contractor to install this product. Improper installation can result in electrical shock, fire, or explosion.

Meanings of WARNING, CAUTION, and NOTE Symbols.

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
Indicates situations that may result in equipment or property-damage accidents only.

Only qualified personnel must carry out the installation work.

Consult your Daikin dealer regarding relocation and reinstallation of the remote controller. Improper installation work may result in electric shocks or fire.

Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual.

Improper installation may cause electrical shocks or fire.

Use only specified accessories and parts for installation work.

Failure to use specified parts may result in electric shocks, fire, or the unit falling.

Do not disassemble, reconstruct, or repair.

Electric shock or fire may occur.

Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires.

Improper connections or installation may result in fire.

Before touching electrical parts, confirm the power is off to the unit.

Keep water out of the remote controller.

To avoid electric shock due to entry of water or insects, fill the wiring through-hole with putty. Do not wash the remote controller with water as it may result in electrical shocks or fire.

Do not touch the remote controller buttons with wet fingers.

Touching the buttons with wet fingers can cause an electric shock.

Do not install the remote controller in the following locations:

- (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen. Plastic parts may deteriorate.
- (b) Where corrosive gas, such as sulfurous acid gas, is produced.
- (c) Near machinery emitting electromagnetic waves. Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.
- (d) Where flammable gas may leak, where there is carbon fiber or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.
- (e) High temperature areas or areas with direct flames.

Overheating and/or fire can occur.

(f) Moist areas where there is exposure to water. If water enters the inside of the remote controller, it may cause electric shock and electrical components may fail.

Install the control wires for the indoor unit and the remote controller at least 3.5 feet (1 meter) away from televisions or radios to prevent image interference or noise. Depending on the radio waves, a distance of 3.5 feet (1 meter) may not be sufficient to eliminate the noise.

When the remote controller's temperature sensor is used, select the installation location as per the following:

- A place where average temperature in the room can be detected.
- A place where it is not exposed to direct sunlight.
- A place where it is far away from any heat source.
- A place where it is not affected directly by outside air.

Accessories

The following accessories are included.

Drywall screw	Drywall anchor	Operation Handbook	Installation Handbook
O.			
(3 pcs.)	(3 pcs.)	(3 pcs.)	(1 pc.)

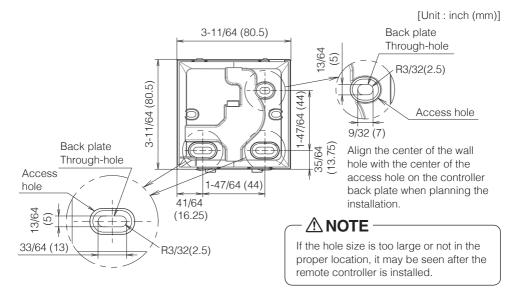
Mounting plate (Metal)	Mounting plate (Plastic)	Screw for mounting plate (M3.5×10)	Screw for mounting plate (M4×40)
		C.	
(1 pc.)	(1 pc.)	(3 pcs.)	(2 pcs.)

Remote controller installation procedure

Deciding where to install the remote controller

Select the installation location based on "Safety Considerations" (see page 2) and obtain consent of the customer.

Creating a wiring through-hole in the wall (when opening a hole in the wall and installing)



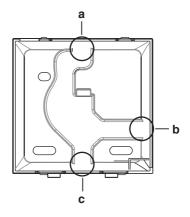
• Note that if the wiring through-hole is large or deviates from the specified position, the hole may be exposed.

Determining the wire routing direction for the back plate

Before mounting the controller, determine the wiring direction and remove a piece of the controller's back plate accordingly (i.e.: a, b, c). The wiring can be routed from the top, the left, or the bottom of the back cover. Remove a piece of the back plate according to the following figure.

After removing a thin piece with a tool such as clippers, remove burrs using a file, etc.

- **a** Wiring from top
- **b** Wiring from left
- c Wiring from bottom

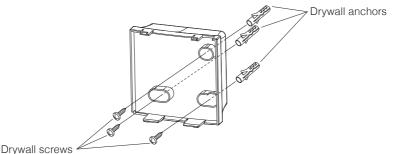


In case you are routing the wiring from the rear, you don't have to remove anything. When routing the wiring from the top, rear, left, bottom, or when installing on a mounting plate etc., be sure to route the wiring to the upper casing before securing the back plate.

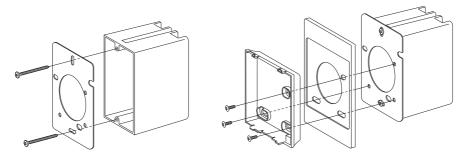
Securing the back plate

Wall installation

- 1: Take the drywall screws and drywall anchors out of the accessory bag.
- 2: Mount the back plate to a flat surface.



In case of installing in the electrical component box



- **1**: Take the screws for the mounting plate (M3.5×10 and M4×40), and the mounting plates (metal and plastic) out of the accessory bag.
- **2:** Attach the mounting plate (metal) to the electrical component box with the screws for the mounting plate (M4×40).
- **3:** Attach the back plate and mounting plate (plastic) with the screws for mounting plate (M3.5×10).

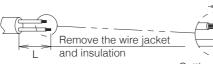
- For the installation surface, select as flat a location as possible.
- Choose a place where there is no gap between the wall and the screw fixing part of the back plate.
- If there is an empty space between the back plate and the screw fixing part (nut part) due to the structure of the wall, install with a torque of 20 N · cm or less.
- If the upper casing comes off easily, loosen the drywall screws to lessen the deformation.
- If tightened too much, the back plate will be deformed and the upper casing will come off easily. If the upper casing comes off easily, loosen the screws and correct the deformation.

Connecting the electrical wiring

All wiring must comply with the following requirements:

Wire specification	Value
Wiring type	Non-shielded, 2-conductor, Stranded copper wire
Wiring size	AWG-18
Wiring length	Maximum 1640 feet (500 m)

Prepare the wiring for connection to the remote controller following these instructions:



Approx. 3/8 inch (10 mm) To simplify the wiring, maintain a 3/8 inch (10 mm) difference between the length of the two conductors.

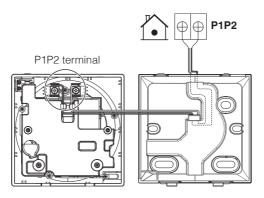
Cutting guideline

Wiring outlet	L
Тор	±5.5 inch (140 mm)
Left	±4.3 inch (110 mm)
Bottom	±3.5 inch (90 mm)
Rear	No requirements

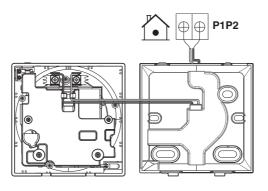
Connect the terminals (P1, P2) of the remote controller to the terminals (P1, P2) of the indoor unit. (P1 and P2 are not polarity sensitive.)

- Before working, shut off all power supplies.
- Do not touch the remote controller circuit board directly with your hands.

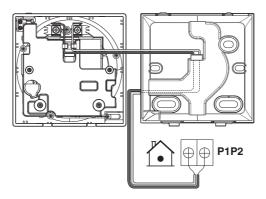
Top outlet



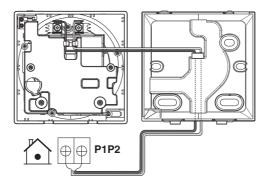
Rear outlet



Left outlet



Bottom outlet



- Keep the wiring away from the power wire so that electrical noise (external noise) is not received.
- In order to prevent the entry of water or insects, use putty (field supply) to securely seal the wiring lead-in hole.

Closing the controller

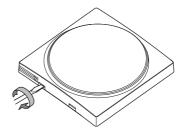
- **1**: Place the top of the controller on the top of the back plate.
- 2: Snap the bottom of the controller into place on the bottom of the back plate.
- **3:** Ensure the installation site is dust-free, before peeling the protective seal.



- Never touch the internal parts of the controller.
- When closing the controller, be careful not to pinch the wiring.
- To prevent damage, make sure the front of the controller is clicked into the back plate securely.

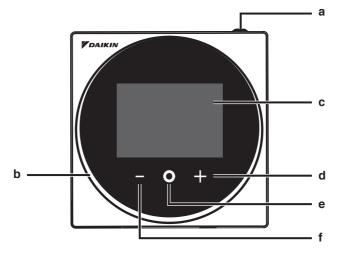
When removing the upper casing

Insert a flat head screwdriver into the recess in the back plate and remove the upper casing. (2 locations)



- The remote controller circuit board is attached to the upper casing. Be careful not to damage the circuit board and casing when removing the upper casing.
- Do not touch the remote controller circuit board directly with your hands.
- Be careful not to allow dust or moisture to adhere to the circuit board when the upper casing is removed.

Button Locations and Descriptions



Functions items (i.e., Operation Mode, Fan Speed, and Setpoint) are set from the menu screen.

- Do not install the remote controller in places exposed to direct sunlight. The LCD may be damaged.
- Do not pull or twist the remote controller cord. The remote controller may be damaged.
- Do not use objects with sharp ends to press the buttons on the remote controller. Damage may result.

a () ON/OFF button

- Press this button to turn on the system.
- Press this button again to turn off the system.

b Status indicator (LED)

• During operation, the light ring around the display lights up blue/red/green. Lights up blue: Operating, Blinks red: Error is occurring, Lights up/blinks green: Bluetooth connecting

c LCD (Refer to INFORMATION on page 15.)

• Displays the current setpoint and air conditioner operation status.

d 🕂 NAVIGATE/ADJUST button

- Navigate right.
- Adjust a setting.

e O SELECT/ACTIVATE /SET button

- From the home screen, enter the user menu.
- From the user menu, enter one of the submenus.
- From their respective submenu, activate an operation/ventilation mode.

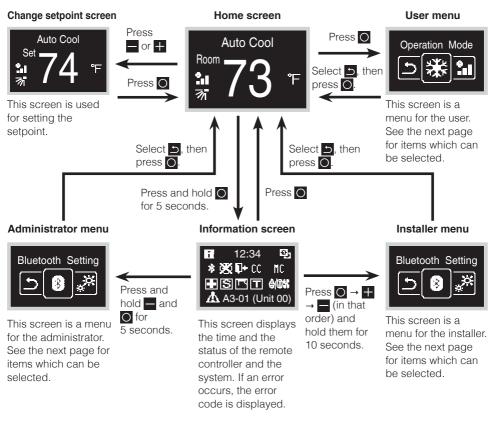
f NAVIGATE/ADJUST button

- Navigate left.
- Adjust the setting.

Overview of screens

How to display the screen

The following is just an example. The items available for setting vary depending on the indoor unit you are using. If there is no button operation for about 10 seconds, the screen returns to the home screen.

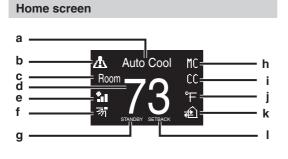


Setting screen list

Setting list			User	Administrator	Installer
Icon	Name	Description	menu	menu	menu
Depends on current setting	Operation Mode	Operation mode setting	0		
Depends on current setting	Fan Speed	Airflow rate setting	0		
Depends on current setting	Airflow Direction	Airflow direction 1 setting	0		
Depends on current setting	Vertical Airflow	Airflow direction 2 setting	0		
Depends on current setting	Ventilation Mode	Ventilation mode setting	0		
Depends on current setting	Ventilation Rate	Ventilation rate setting	0		
Ö	Adjust LED (ON)	LED brightness adjustment when backlight lights up	0		
Q	Adjust LED (OFF)	LED brightness adjustment when backlight lights up dimly	0		
°C °F	Celsius/Fahrenheit	Fahrenheit/Celsius changeover	0		
	Setpoint	Setpoint setting when in auto operation mode	0	0	
	Sign Reset	Filter sign reset	Filter sign reset O		

Setting list		User	Administrator	Installer	
lcon	Name	Description	menu	menu	menu
8	Bluetooth Setting	Bluetooth setting		0	0
***	Backlight	Backlight brightness setting		0	0
0	Contrast	Contrast setting		0	0
Θ	Clock Setting	Clock setting		0	0
	Standard Temp	Scale reference temperature setting		0	0
	About	Administrator information		0	0
	Admin Password	Administrator password setting		0	
	Installer Password	Installer password setting			0
圓	Field Setting	Field Setting			0
\mathcal{P}	R/C Setting	R/C Setting			0
오	Address Setting	Address Setting			0
1	Forced Fan ON	Forced Fan ON Setting			0
r.	Rel Master Control	Release changeover master			0

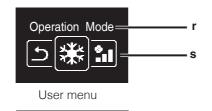
Names and Functions



Information screen



User menu/Administrator menu/Installer menu





Administrator menu/Installer menu

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IINFORMATION

Screen display explanation

- a Operation mode/OFF display
 - Displays the operation status.
- b Error/Filter/Test icon
- Error, filter and test icons are displayed.
- c Room/Set
 - Indicates whether it's a room temperature display (Room) or setpoint display (Set).
- d Room temperature/Set temperature
 - Displays the current room or setpoint temperature.
- e Fan speed
 - Displays the set fan speed.
- f Airflow direction
 - Displays the set airflow direction.
- g STANDBY
 - Displays during defrost/hot start.
- h Changeover controlled by the master indoor unit
 - Displayed when another indoor unit on the system has the authority to change the operation mode between cool and heat.

i Under centralized control

 Displayed if the system is under the management of a multi-zone controller (Optional) and the operation of the system through the remote controller is limited.

Fahrenheit/Celsius

- Depending on the setting, Fahrenheit/ Celsius display can be selected.
- k Ventilation operation/Air Purify
 - Displayed when a Heat Reclaim Ventilator is connected.
- I Setback
 - Blinks during setback operation.
 - Displayed during setback setting.
- m Information icon
- n Clock (24 hours time display)
- o MAIN/SUB remote controller sign

p Status

- Notifies the status.
- q Error display
 - If an error occurs, the icon, an error code and unit number are displayed.
- r Settings menu name
- s Settings menu icon

Depending on the connected model, some items may not be displayed. The controller is equipped with a power-saving function that darkens the display if there is no operation for a certain period of time. To make the screen light up again, press one of the buttons. Note that pressing one of the buttons will only make the display bright again, not cause remote controller operation.

* All screens shown are from text mode. English

Starting up the system

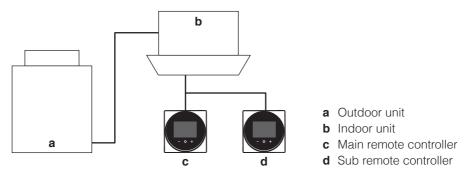
- Check for completion of indoor/outdoor unit wiring.
- Ensure that covers is closed on electrical component boxes for both indoor and outdoor units prior to restoring power.

Power-on

- The controller gets its power from the indoor unit.
- Therefore, for the controller to be operable, make sure the indoor unit is powered on. Once the controller is powered, it will automatically startup.

If it is the first and only controller that is connected to the indoor unit, it will automatically get designated as the main controller. If there is a second controller, it is necessary to manually set it as a sub controller.

Main and sub controller



• On the information screen, main/sub status is indicated by the following icons:

lcon	Description
٥,	Main
e	Sub

It is only possible to use a main and a sub controller of the same type.

INFORMATION

If a sub controller does not display the home screen 2 minutes after its designation, turn off the power and check the wiring.

INFORMATION

After re-designating a controller, the system requires a power reset.

INFORMATION

The following functions are not available for sub controllers:

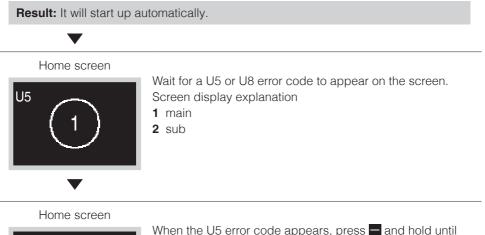
- "Auto" operation mode
- Individual airflow direction
- Filter auto clean
- · Setback temperature setpoints
- Draft prevention

Designating a controller as main or sub

Prerequisite: A remote controller is already connected to the indoor unit.

Connect a second controller.

After turning on the power, perform setting of the second controller.





When the U5 error code appears, press and hold until "2" appears on the screen.

When the U8 error code appears, press and hold until "1" appears on the screen.

Result:

A controller displaying 1 is set as main, and a controller displaying 2 is set as sub.

INFORMATION

If sub remote controller is not set at power-on in the case of one indoor unit controlled by two remote controllers, Error Code: U5 is displayed in the connection checking screen.

If the sub remote controller does not display the home screen two minutes after its designation, turn off the power and check the wiring.

Switching the Changeover Master

About the changeover master

When multiple indoor units are connected to one outdoor unit or branch selector unit, by giving the authority to switch the operation mode to a specific indoor unit, the operation switching of other indoor units can be controlled.

- Only the remote controller set as the changeover master can select cooling, heating or auto operation modes.
- Remote controllers not set as the changeover master will follow the operation mode of the changeover master.
- Setting and cancellation of the changeover master needs to be carried out on the remote controller that is already the changeover master, and the remote controller that is to be set as the changeover master.
- Depending on the system, this function may not be available.

Possible operation mode selections for a remote controller that is a changeover master or a mode follower

Operation modes for the remote controller that is a changeover master	Operation modes that can be selected by remote controllers that is a mode follower
Heating via Heat/Auto	Heat, Fan
Cooling via Cool/Auto	Cool, Dry, Fan
Dry	Cool, Dry, Fan
Fan	Fan

* Depending on the air conditioner and the system, some operation modes may not exist.

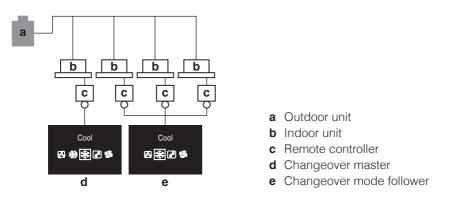
Example of the changeover master settings

In the following cases, it is necessary to give the authority to choose cooling/heating to 1 remote controller:

- When multiple indoor units are connected to the same heat pump outdoor unit.
- When multiple indoor units are connected to the same branch selector port in a heat recovery system.

Heat pump system

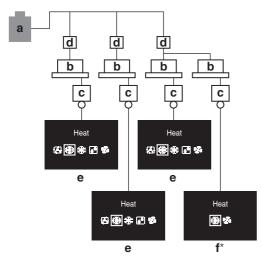
When multiple indoor units are connected to 1 outdoor unit: Give the authority to choose cooling, heating, or auto to 1 of these remote controllers.



• For the remote controller **without** cooling/heating selection authority, the operation modes that can be selected are limited.

Heat recovery system

When multiple indoor units are connected to the same port of a branch selector unit: Give the authority to choose cooling, heating, or auto to 1 of these remote controllers.



- a Outdoor unit
- **b** Indoor unit
- c Remote controller
- **d** Branch selector unit (This unit switches between cooling and heating.)
- e Changeover master
- f Changeover mode follower
 - * The screen of the remote controller with no cooling/heating selection authority when the remote controller with cooling/ heating selection authority is in "Auto" mode and has selected Heat operation (auto heating)

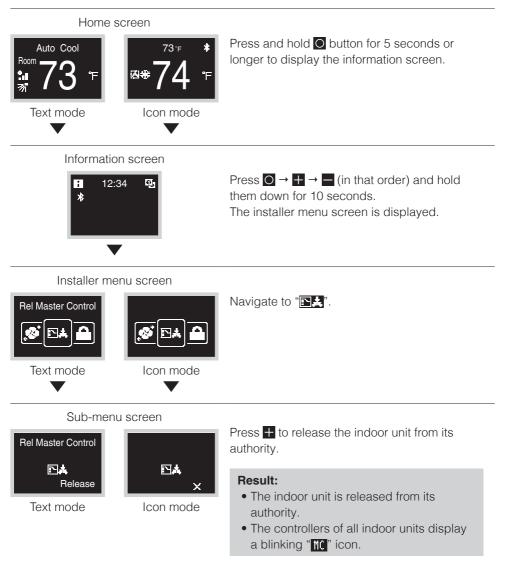
Releasing the changeover master

To change the authority to choose cooling/heating, you must first specify the remote controller with the authority, then release the authority.

Depending on the system, setting may not be available.

Prerequisite: You are in the installer menu.

You are operating the controller of the indoor unit that you want to release from being the changeover master.



Setting up the changeover master

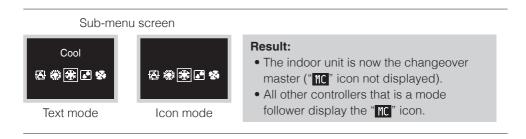
This setting is available only when none of the remote control in the system has master control.

Prerequisite: No indoor unit is yet set as the changeover master ("MC" icon blinking on all controllers).

You are operating the controller of the indoor unit that you want to set as the changeover master.







Icon mode

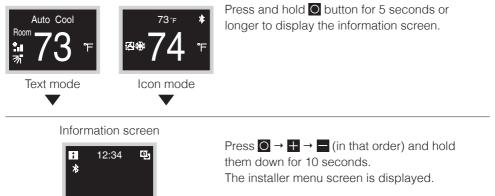
Text mode

Installer Menu

How to enter the Installer menu

Installer menu screen

Home screen

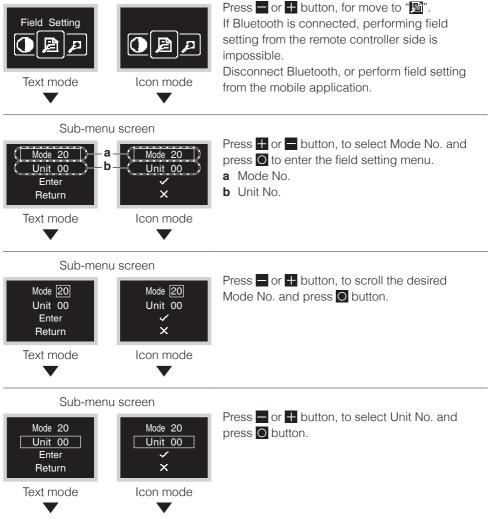


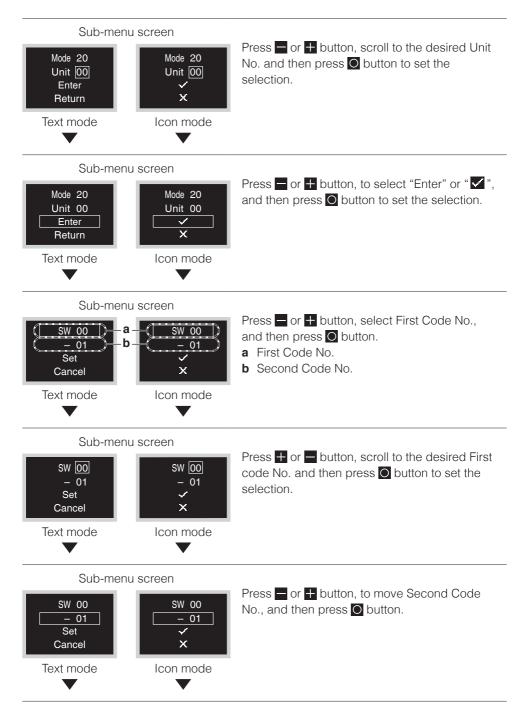
Field Setting

Field settings method

This section describes how to perform field setting. Refer to page 23 and enter the installer menu.

Installer menu screen







- The connection of optional accessories to the indoor unit might cause changes to some field settings. For more information, see the installation manual of the optional accessory.
- For details about the specific field settings of each type of indoor unit, see the installation manual of the indoor unit.
- Field settings that are not available for a connected indoor unit are not displayed.
- Field setting default values are different depending on the indoor unit model. For more information, see the service manual of the indoor units.

- Installation of optional accessories on the indoor unit may require changes to field settings. See the manual of the optional accessory.
- For field setting details related to the indoor unit, see installation manual shipped with the indoor unit.

Field setting mode list

Mode No.	First Code	Description		Second Code No. (Note 2) (Items in bold are factory default settings)				
(Note 1)	No.	Becomption	01	02	03	04		
10 (20)	2	Priority of thermistor sensors for space temperature control	The return air thermistor is primary and the remote controller thermistor is secondary.	The remote controller thermistor is not utilized. Only the return air thermistor will be utilized. Thermistor	Only the remote controller thermistor will be utilized.	_		
	5	Room temperature value reported to multizone controllers	Return air thermistor	designated by 10-2 above (Note 3)	_	_		
12 (22)	2	Thermo-on/off deadband (Note 4)	2°F (1°C)	1°F (0.5°C)				
1C	01	Change room temperature display	Inlet temperature	Remote controller thermistor				
1E	02	Setback availability	N/A	Heat only	Cool only	Cool/Heat		

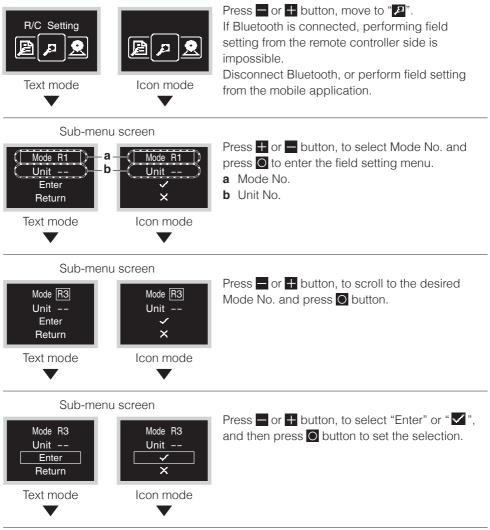
- **Notes)1.** Field settings are normally applied to the entire remote control group, however if individual indoor units in the remote control group require specific settings or for confirmation that settings have been established, utilize the mode number in parenthesis.
 - 2. Any features not supported by the connected indoor unit will not be displayed.
 - **3.** When mode 10-2-01 is selected, only the return air temperature value is reported to the multizone controller.
 - 4. The actual default deadband value will depend upon the indoor unit model.

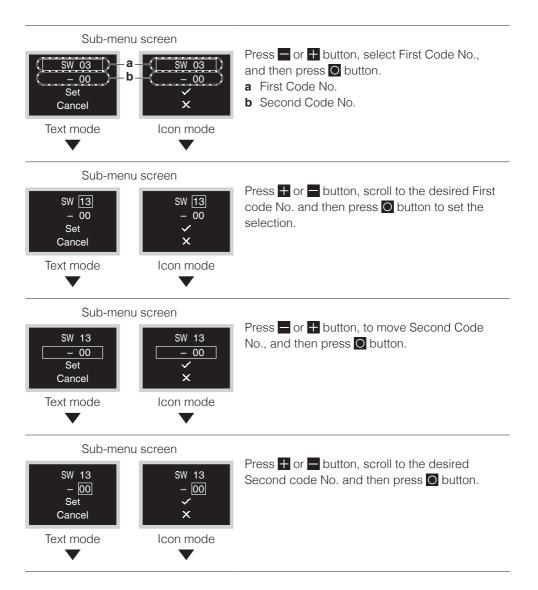
R/C Setting

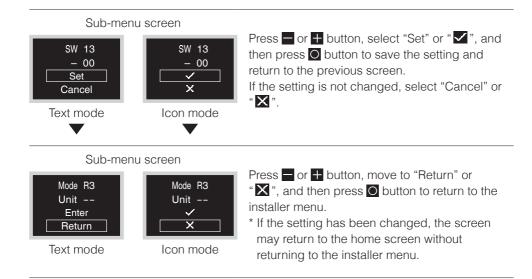
R/C setting method

This section describes how to perform R/C setting. Refer to page 23 and enter the installer menu.

Installer menu screen







R/C setting mode list

Mode	First Code	Description	(Iter	Seco ns in bold are	nd Code No. e factory defa		s)
No.	No.	Docomption	00	01	02	03	04
R1	07	Remote controller type	Text home screen	Icon home screen			
R1	11	Daikin Eye lighting settings during error	Error blinking	Normal continuously lit			
R1	12	Enable and disable BLE function	Disabled	Enabled		_	
R3	00	Set temperature display when stopped	Displayed	Not displayed	_		
R3	01	Operation mode display when stopped	Normal	OFF			
R3	02	Home screen airflow rate display	Displayed	Not displayed (always)	Not displayed (when stopped only)	_	_
R3	03	Home screen airflow direction display	Displayed	Not displayed (always)	Not displayed (when stopped only)		_
R3	04	Home screen cooling/ heating selection authority display	Displayed	Not displayed (always)	Not displayed (when stopped only)		_
R3	05	Home screen error icon display	Displayed	Not displayed	_	_	
R3	06	Home screen setback display	Displayed	Not displayed	_	_	
R3	07	Home screen ventilation/ cleaning icon display	Displayed	Not displayed (always)	Not displayed (when stopped only)		_
R3	08	Home screen operation mode display	Displayed	Not displayed			
R3	09	Home screen defrost/hot start display	Displayed	Not displayed	—	—	
R3	10	Home screen room temperature display	Displayed	Not displayed	_	_	
R3	11	Home screen under centralized control display	Displayed	Not displayed	_	—	
R3	13	Menu screen (etc.) wording display	Displayed	Not displayed	_	_	_

Installer Password Setting

Installer password setting method

This section describes how to perform password setting. Refer to page 23 and enter the installer menu.

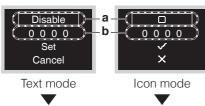
Installer menu screen



Press or to button, for move to ". If Bluetooth is connected, performing field setting from the remote controller side is impossible.

Disconnect Bluetooth, or perform field setting from the mobile application.

Sub-menu screen



Press
or
button, select Enable/Disable, and press
to perform password enable/ disable setting.

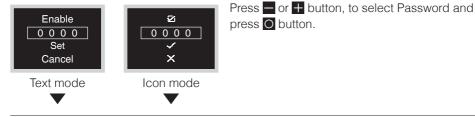
- a Enable/Disable
- **b** Password

Sub-menu screen

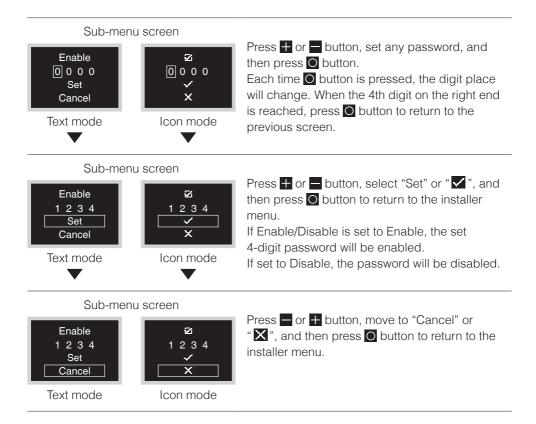


Press for button, change the password to enable/disable, and press button. Select "Enable" or "S" to enable the password and select "Disable" or "I" to disable the password.

Sub-menu screen



English



Other Service Settings

Group Address

- Assign the group address and unit number for centralized control.
- The group and unit address can only be set when a centralized controller is connected. This menu is only visible when a centralized controller is connected.
- The group and unit address can be "set" and "released".

Don't forget to release the group address before disconnecting the centralized controller because the menu will not be accessible afterwards.

Indoor and outdoor unit Airnet Address

Set the indoor and outdoor unit Airnet Address.

Certification

COMPLIANCE WITH FCC RULES AND REGULATIONS

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b) This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase or decrease the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced remote control/ TV technician for help.

This equipment has been verified to comply with the limits for a Class B computing device, pursuant to FCC Rules. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

FCC RF Radiation Exposure Statement:

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Authorization Label

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so

chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. This Class B digital apparatus complies with Canadian ICES-003.

RF exposure:

To comply with the RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

License

The following OSS is included in the remote controller. [micro-ecc]

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