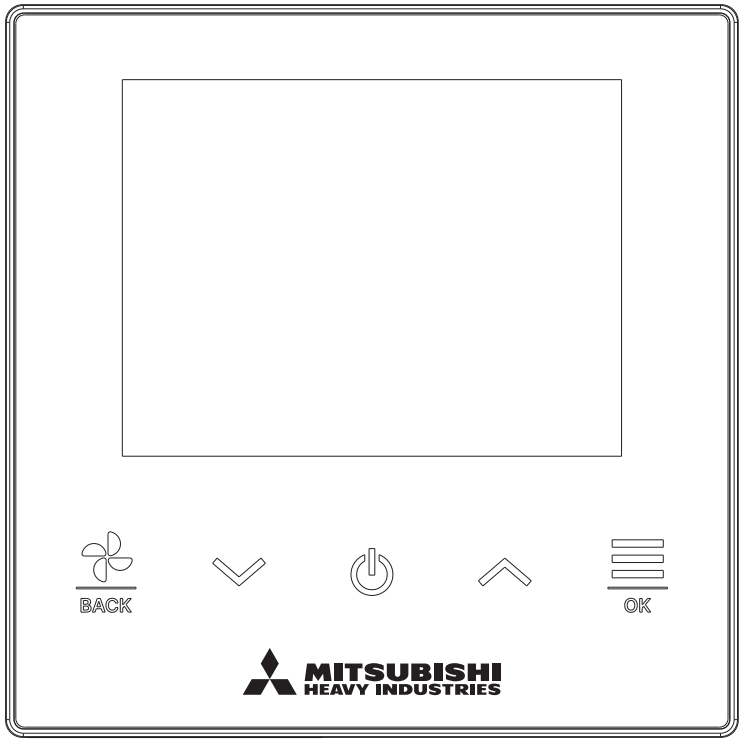
MITSUBISHI HEAVY INDUSTRIES

ORIGINAL INSTRUCTIONS

REMOTE CONTROL RC-ES1
USER'S MANUAL



Thank you very much for your purchasing the REMOTE CONTROL for our packaged air conditioner.

This user's manual describes cautions for safety. Please read this manual carefully before use in order to operate the unit properly.

Keep this manual, after reading, at a safe place where you can consult it whenever it is necessary.

When the ownership of the unit is changed, please be sure to transfer this manual and the “Installation Manual” to a new owner.

It is not recommended for a user to install or move the unit by the user's own discretion. (Safety or functions may not be assured.)

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Note

Please turn on the power switch 6 hours before operation to protect the air conditioner (the crank case heater is conducted and the compressor is heated).

Also, be sure not to turn off the power switch (the crank case heater is conducted and the compressor is heated during stop of the compressor. It protect the fault of the compressor caused by liquid refrigerant stagnation).

1. Before you use

Safety precautions

●Please read the precautions written here carefully to operate the unit properly.
You are required to observe these fully because every item of these instructions is important for safety.

⚠WARNING	Failure to follow these instructions may result in serious consequences such as death, severe injury, etc.
⚠CAUTION	Failure to follow these instructions may cause injury, property damage or, serious consequences depending on.

●The following pictograms are used in the text.

	Never do.		Always follow the instructions given.
	Absolutely keep water away.		Absolutely keep wet hands away.

●Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

●**Electrical wiring work must be implemented only by qualified specialists.**

⚠WARNING

Consult your dealer or a professional contractor to install the R/C.
Improper installation made on your own may cause electric shocks, fire or dropping of the R/C.

Consult your dealer when moving, disassembling or repairing the R/C.
Never modify the R/C.
Improper handling may result in injury, electric shocks, fire, etc.

Avoid using combustible substances (hair spray, insecticide, etc) near the R/C.
Do not use benzene or paint thinner to clean the R/C.
It could cause cracks, electric shocks or fire.

Stop operation under abnormal situation.
If continued, it could result in break-down, electric shocks, fire, etc.
If any abnormal condition (burnt odor etc.) occurs, stop operation, turn off the power switch and consult your dealer.

If you have a cardiac pacemaker or implantable cardioverter defibrillator, keep at least 15 cm away to turn Bluetooth® ON.
It could cause the malfunction of medical devices.

Do not use the Bluetooth® function near automatic control equipment such as an automatic door or fire-alarm device.
Such improper installation may cause an accident due to malfunction of equipment.

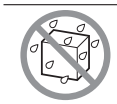
⚠CAUTION



Do not use or let use the R/C as play equipment.
Improper operations could cause ill health or health disorder.



Never disassemble the R/C.
If you touch internal parts accidentally, you could get electric shocks or cause trouble. Consult your dealer when it is necessary to inspect its interior.



Do not wash the R/C with water or liquid.
It could cause electric shocks, fire or break-down.



Do not touch electric parts or operate key with wet hands.
It could cause electric shocks, fire or break-down.



Do not dispose the R/C by yourself.
It could destruct the environment. Ask your dealer when it is necessary to dispose the remote control.



The communication distance between the R/C and the smartphone could be decreased.
When there are obstructions, shielding objects, or radio wave interference with other devices.

Note



The R/C should not be installed where it is exposed to direct sunlight or the ambient temperatures become higher than 40°C or lower than 0°C.
It could cause deformation, discoloration or break-down.



Do not use benzene, paint thinner, wipes etc. to clean the RC.
It could discolor or break-down the R/C. Wipe it with a piece of cloth which is squeezed tightly after wetting with diluted neutral detergent. Finish up the cleaning by wiping with a piece of dry cloth.



Do not pull or twist the cable of the R/C.
It could cause break-down.



Do not tap the R/C key or screen with pointed objects.
It could damage or cause break-down.



Do not hang anything on the upper side of the R/C.
It could cause break-down.

Precautions for waste disposal



Your Air Conditioning product may be marked with this symbol. It means that waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) should not be mixed with general household waste. Air conditioners should be treated at an authorized treatment facility for re-use, recycling and recovery and not be disposed of in the municipal waste stream. Please contact the installer or local authority for more information.

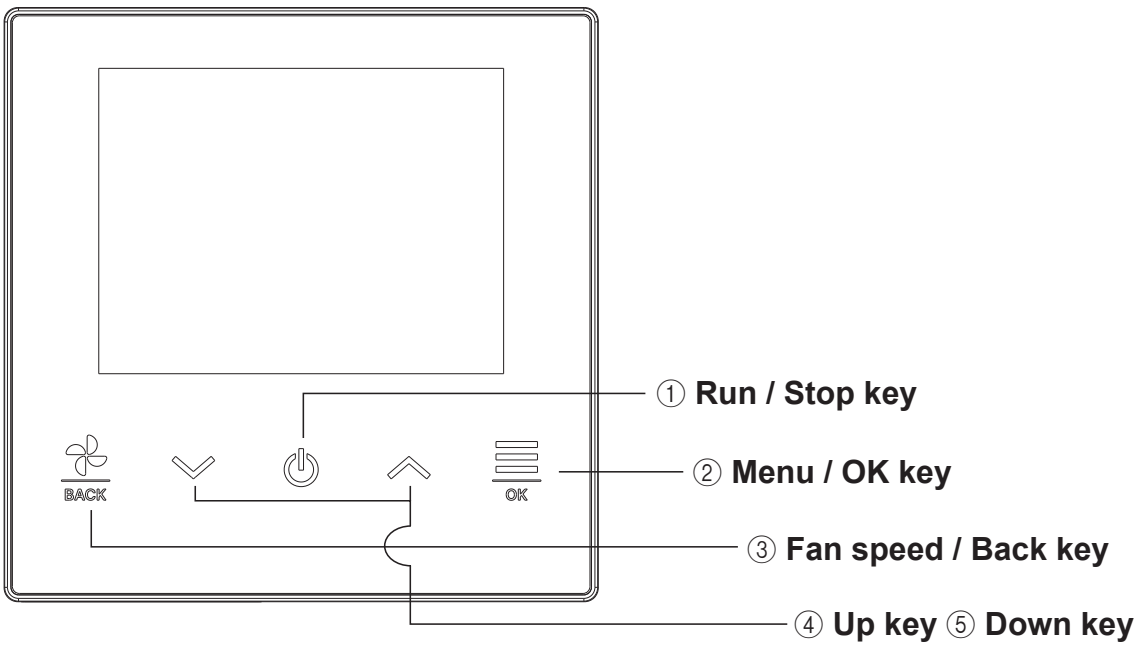
Unit specifications

Item	Description
Product dimensions	86(W) x 86(H) x 17(D) mm
Weight	0.10 kg
Power supply	DC 18 V
Power consumption	1.0 W
Usage environment	Temperature: 0 to 40 °C
Material	Casing: ASB+PC
R/C Bluetooth® version	5.1

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iOS is the name of the OS of Apple Inc. IOS is a trademark or registered trademark of Cisco in the US and other countries which has been licensed for use. App Store is a service mark of Apple Inc.

2. Functions and menu items of the remote control

Names and functions of sections on the R/C (Operating section)



① Run / Stop key

On the TOP screen, tap this key to start the operation. Tapping this key again stops the operation.
On other screens, this key goes back to the TOP screen.

② Menu / OK key

On the TOP screen, tap this key to show the menu.
On other screens, this key serves to enter the selected item.

③ Fan speed / Back key

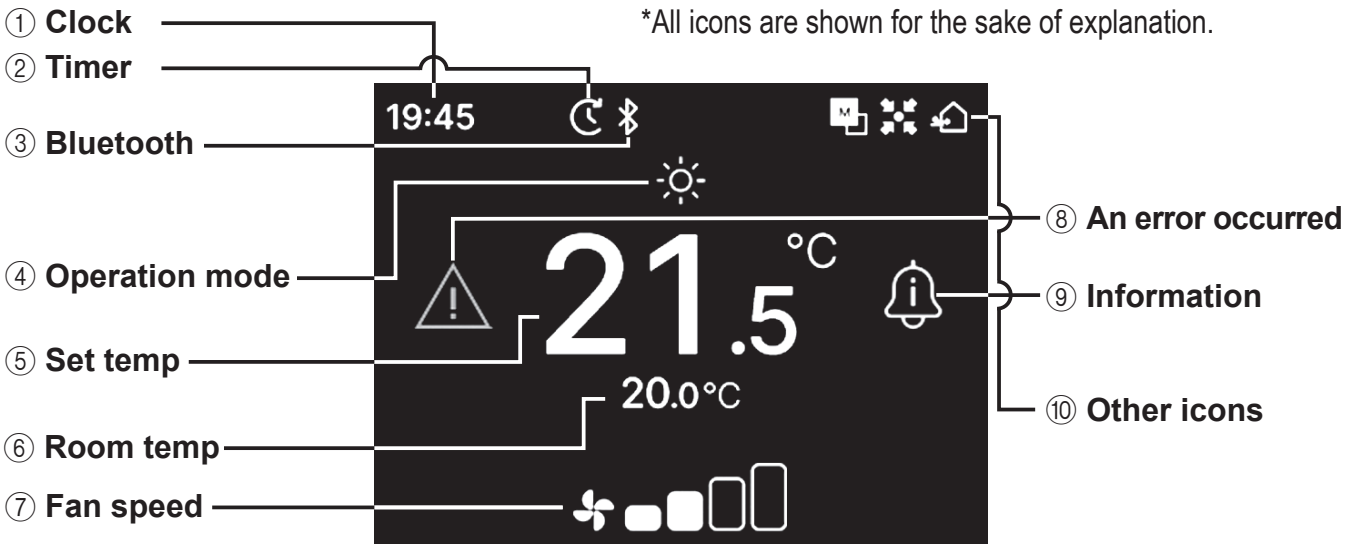
On the TOP screen, tap this key to change the fan speed.
On other screens, tapping this key goes back to the previous screen, while holding down this key goes back to the TOP screen.

④ Up key ⑤ Down key

On the TOP screen, tap this key to change the setting temperature.
On other screens, this key serves to select the item.

Names and functions of sections on the R/C (Display)

TOP screen



① Clock

Displays the current time. The display format can be changed from the app.

② Timer

Displayed when the timer is set.

③ Bluetooth®

Displayed when R/C's Bluetooth® setting is ON and communication with a smartphone is available.

④ Operation mode

Displays the operation mode which is selected currently.

⑤ Set temp

Displays the temperature which is set currently.

⑥ Room temp

Displays the current room temperature.

⑦ Fan speed

Displays the fan speed which is selected currently.

⑧ An error occurred

Displayed when error happens to the air conditioner or R/C.

⑨ Information

Displayed when there is a notification about the operation status or the setting status of the air conditioner.

⑩ Other icons

Each icon is displayed when one of following settings is going on.

M / S Displayed when R/C is set as the main/sub R/C.

Displayed when the unit is controlled through a central control device (sold separately) and the R/C's system operation is restricted.

Displayed during the ventilation operation.

Note

Clock, Room temp, and the "An error occurred" icon can be set to be hidden from the app.

Menu item

The following operations can be performed with R/C. However, operations may be restricted depending on the R/C main/sub setting and the operation status of the A/C.

R/C operations	Page	Main/Sub of R/C		Operation status	
		Mian	Sub	Running	Stopped
Basic operation	9				
Run	9	○	○	×	○
Stop	9	○	○	○	×
Change set temp	10	○	○	○	○
Change fan speed	11	○	○	○	○
Menu	12	○	○	○	○
Operation settings	13				
Operation mode	13	○	○	○	○
High power operation	14	○	○	○	○
Timer	15				
Set ON timer by hour	17	○	○	○	○
Set ON timer by clock	17	○	○	○	○
Change flap direction	18				
Upper/lower flap	20	○	○	○	×
Left/right flap	21	○	○	○	×
Flap direction	22	○	○	○	×
Zone ON/OFF	23	○	○	○	○
Ventilation operation	24	○	○	○	○
Common settings	25				
Bluetooth	25				
Bluetooth ON/OFF	26				
Pairing mode	27	○	○	○	○
QR code for the app	27	○	○	○	○
Display & sound	30				
Backlight brightness	31	○	○	○	○
Backlight lighting time	31	○	○	○	○
Operation sound	32	○	○	○	○
Language	32	○	○	×	○
An error occurred	33	○	○	○	○
Information	36				
Operation status	36	○	○	○	○
Setting status	39	○	○	○	○
Contact	41	○	○	○	○
Maintenance mode	42				
IU address	43	○	○*1	○	○
Main/Sub of R/C	43	×	○	×	○
IU capacity	43	○	○	×	○
Error history	44	○	○	○	○
Saving IU settings	44	○	○	×	○
Special settings	44				
Delete IU address	45	○	×	×	○
CPU reset	45	○	○	○	○
Factory reset	45	○	×	×	○
Test run	46				
Cooling test run	46	○	×	×*2	○
Drain pump test run	46	○	×	○	○
Installation date	47	○	×	○	○

*1:The fan operation cannot be performed by sub R/C.

*2: Cooling test run is inoperable in operation modes other than cooling.

Operation by smartphone application

Installing the dedicated app ”M-Air PRO” enables you to configure more detailed settings in addition to those shown on the page 7 using your own smartphone.

The app is free of charge, but downloading the app and some operations may require communication charges. Download the app from “Google Play” or “AppStore”. Refer to page 28 for details on how to operate the R/C.

For Android™

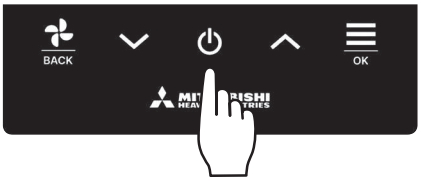
For iOS

For Android : https://play.google.com/store/apps/details?id=mth.mairpro

For iOS : https://apps.apple.com/app/m-air-pro/id6474228865

3. Basic Operation

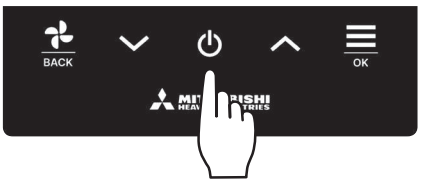
Run



Tap the ⏻ key on the TOP screen.

The operation mode and fan speed are displayed on the TOP screen, and operation starts.

Stop



Tap the ⏻ key on the TOP screen while the unit is in operation.

"OFF" is displayed on the screen, and operation stop.

Note

- Do not shut down the power supply immediately after the stop of operation. It should be waited for more than 5 minutes till the residual operation time of drain motor is counted up. Otherwise, it could cause water leakage or breakdown.

Advice

- A message "Invalid request" may be displayed when a key is tapped. This is not a fault but it is because the key operation is set to the "Disable". (☞ refer to app manual)
- The unit starts to operate initially with the following settings after the power on. These settings can be changed as desired.

Central control	…… OFF
Central control	…… OFF
Operation mode	…… With auto mode: Auto cooling
	…… Without auto mode: Cooling
Set temp	…… 23.0°C
Fan speed	…… 3-speed
Flap direction	…… When cooling: position 2, when heating: position 3 (☞page 20)
	✳When an FDK with a left/right flap is connected, left/right flap direction: center, 3D auto: disabled

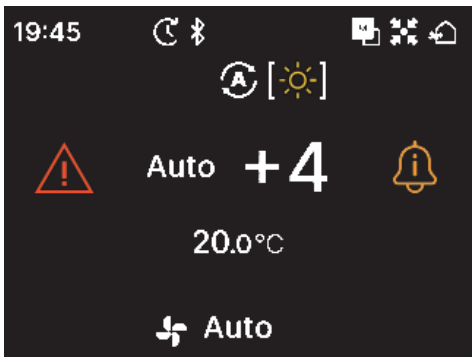
- In the following cases, it changes to the fan operation and the "In the fan operation" icon : is displayed on the "Operation status" screen, because operation modes are not matched.
  ① When Heating (including auto heating) is selected for Operation mode while using an OU for cooling only.
  ② When Heating is selected for Operation mode while controlling multiple units including units allowed for both cooling and heating and units for cooling only.
  ③ When different operation modes are selected between IUs which are connected to an OU that do not allow mixed operation of cooling and heating.

Change set temp

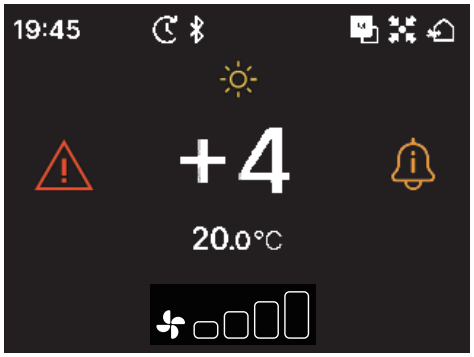


Tap the ⌄ / ⌃ keys to down / up the set temperature on the TOP screen.

- Reference set temp
  - Cooling … 26 to 28°C
  - Dry … 24 to 26°C
  - Heating … 20 to 24°C
  - Fan … Setting temp is not required.
- The setting temp range can be set from the app.
- The temp setting increment to 0.5°C or 1°C can be set from the app.



- If the “Auto” is showed for the set temp, the set temp display shows “0”.
- “Auto” can be set enable or disable from the app.
- Temperature can be adjusted higher or lower with tapping the ⌄ / ⌃ keys.
- Note that “Auto” is not displayed and cannot be set when SC-SL2, SC-SL3, or SC-SL4 is connected.
- “Auto” can also be canceled through R/C by tapping the ⌄ / ⌃ keys simultaneously on the TOP screen.



- If you switch to +/- Display from the app, the difference from the center temp is displayed in Set temp display.
- You can set the center temp from the app.
- In +/- Display, the temp setting increment is 1°C.

Note

Display the R/C temp, Display the indoor temp, and Display the outdoor temp:
If you select to show them from the app, each temp is displayed on the screen during changing set temp, fan speed, operation mode and flap direction.



R/C temp



IU return temp

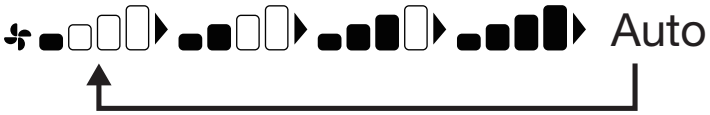


OU sensor temp

Change the fan speed



Tap the  key to change the fan speed on the TOP screen.



- Fan speeds which can be set vary depending on the models of IU.
- When the “Auto” is selected, the fan speed is changed automatically depending on the capacity.
- Note that “Auto” is not displayed and cannot be set when SC-SL2 or SC-SL3 is connected.

Advice

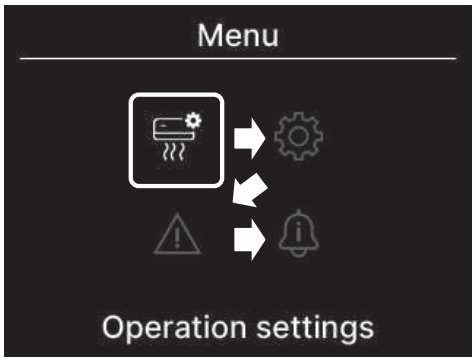
If the humidity around the IU is high, the fan speed may differ from the set fan speed in order to prevent condensation forming on the IU. In that case, the “During condensation prevention control” icon :  is displayed on the “Operation status” screen. (☞page 36)

When the humidity drops, the fan speed returns to its original speed.

Menu



1 Tap the OK key on the TOP screen to show the “Menu” screen.



2 Select the next icon with the ⌄ key and the previous icon with the ⌃ key. Select your desired icon and tap the OK key to decide.

Operation settings(☞ page 13) • • • You can make settings related to A/C operation.

Common settings(☞ page 25) • • • You can make settings of connection to smartphone, R/C display and operation sound.

An error occurred(☞ page 33) • • • You can check a list of error information.

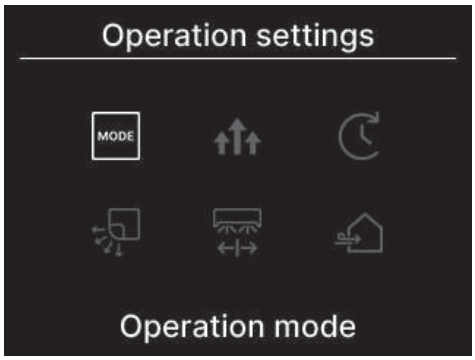
Information(☞ page 36) • • • • • • You can check the operation status, setting status, and contact point.

4. Operation settings

You can make settings related to A/C operation.

1 Perform the following operation.

TOP ⇒ Menu ⇒ 
Operation settings



2 The “Operation settings” screen is displayed.

MODE Operation mode(☞ page 13) • • • • • • • • • • • • You can change the operation mode.

High power operation(☞ page 14) • • • • • • • • • You can turn the high power operation ON or OFF.

Timer(☞ page 15) • • • • • • • • • • • • • • • • • You can make settings ON/OFF timer.

ZONE Change flap direction(☞ page 18) • • • You can change the flap direction.

Ventilation(☞ page 24) • • • • • • • • • • • • • • You can turn the ventilation ON or OFF if the ventilation device is installed.

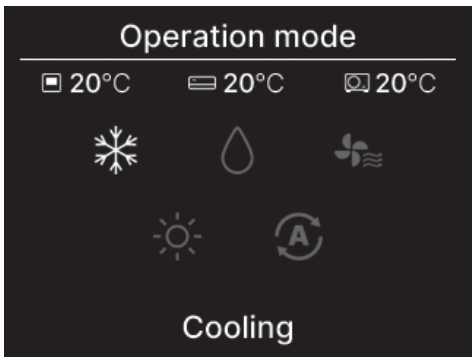
The change flap direction display is displayed according to the connected IU(☞ page 18).

Operation mode

You can change the operation mode.

1 Perform the following operation.

TOP ⇒ Menu ⇒  ⇒ MODE
Operation settings Operation mode



2 The “Operation mode” screen is displayed. Tap the ∨ / ∧ keys to select the operation mode and tap the OK key to decide.

■ Icons displayed have the following meanings.

Cooling **Dry** **Fan**
Heating **Auto**

■ Operation modes which cannot be selected depending on combinations of IU and OU are not displayed.

■ When the "Auto" is selected, the cooling and heating switching operation is performed automatically according to indoor and outdoor temperatures.

Advice

If the air conditioner is a multi-type building air conditioning system, cooling/heating functions cannot be mixed for each of the connected IUs in certain cases. In that case, the “In the fan operation” icon : is displayed on the “Operation status” screen (☞page 36).

If you set from the app, the cooling or heating icon is displayed next to the auto operation mode icon in auto operation mode. (☞refer to app manual)

High power operation

The high power operation adjusts the room temperature quickly to a pleasant level by increasing the operation capacity. The high power operation continues for 15 minutes at the maximum and returns to the normal operation automatically. When the operation mode is changed, the high power operation returns to the normal operation, too.

1 Perform the following operation.

TOP ⇒ Menu ⇒ ⇒

Operation settings High power operation

2 The “High power operation” screen is displayed.

Select ON by tapping the ∨ / ∧ keys. Tap the OK key to start the high power operation.

To stop the operation, select OFF and tap the OK key.



CAUTION

If the icon is blinking, the setting is not yet finalized. Tap the OK key to confirm your settings.

- ■ High power operation is only allowed when Heating or Cooling is selected for the operation mode.
- ■ “—, —°C” is displayed on the TOP screen during the high power operation.
- ■ Set temp and change fan speed operations are disabled during high power operation.

3 High power operation is terminated when you perform one of the following.

- • When you terminate operation by the ⏻ key
- • When you change the operation mode
- • When15 minutes have elapsed since the high power operation started
- • When high power operation is turned OFF

Timer

You can set ON/OFF timer.

■ Operation of each timer

- Set ON timer by hour (☞ page 17)

  When the set time elapses, the air conditioner starts.

  Operating conditions at the start of operation can be set in case you set from the app.

  Operation takes place once at each setting.

- Set ON timer by clock (☞ page 17)

  The air conditioner starts at the set time.

  Operating conditions at the start of operation can be set in case you set from the app.

  Operation takes place once at each setting.

- Set OFF timer by hour (refer to Set ON timer by hour. ☞ page 17)

  When the set time elapses, the air conditioner stops.

  Operation takes place once at each setting.

- Set OFF timer by clock (refer to Set ON timer by clock. ☞ page 17)

  The air conditioner stops at the set time.

  Operation takes place once at each setting.

- Sleep timer

  Stops the operation of the unit when the amount of time set has elapsed since the start of the operation.

  When the setting is enabled, this timer will activate whenever any operation starts.

  You can set from app(☞ refer to app manual).

- Weekly timer

  On timer and Off timer on weekly basis can be set.

  You can set from app(☞ refer to app manual).

CAUTION

You can set the timers that can be used together. Combinations of timers that can be used together are shown in the table below.

(○: Can be used together, ×: Cannot be used together)

	Sleep	OFF: Hours	ON: Hours	OFF: Clock	ON: Clock	Weekly
Sleep		×	×	○	○	○
OFF:Hours	×		×	×	×	×
ON:Hours	×	×		×	×	×
OFF:Clock	○	×	×		○	×
ON:Clock	○	×	×	○		×
Weekly	○	×	×	×	×	

If you attempt to switch ON a timer that cannot be used together while the setting of any timer is ON, this timer is switched OFF.

The same applies when setting the timer through the app.

1 Perform the following operation.

TOP ⇒ Menu ⇒ Operation settings ⇒ Timer



2 The “Timer” screen is displayed.

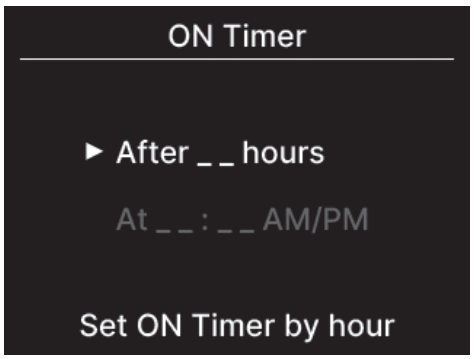
Select your desired timer, ON timer or OFF timer. Tap the OK key.

3 If you select the ON timer, the screen for switching valid/invalid of the ON timer will be displayed.

Select ON and tap the OK key. The ON timer is enabled.

To cancel the ON timer, select OFF and tap the OK key to set.

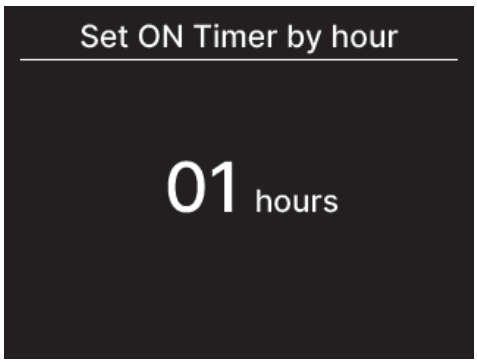




4 When selecting ON in step 3, select the timer type from either by hour or by clock.

5 When the timer type is set, the detailed setting screen will be displayed.

■Set ON timer by hour

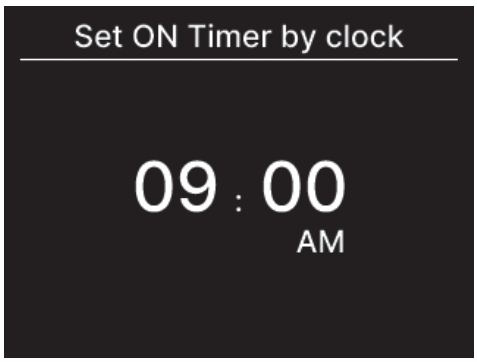


To set the timer by hour, enter hours.

Select desired hours for the period to start operation by timer with the ∨ / ∧ keys. Tap the OK key to set.

Range of setting time: 1 to 12 hours (at 1-hr intervals)

■Set ON timer by clock



To set the timer by clock, enter the time.

Select a desired time to start operation (10-min intervals) with the ∨ / ∧ keys. Tap the OK key to set.

The time format displayed follows the format of the TOP screen.

Note

- Follow the same procedure for setting the OFF timer.
- If you set the ON timer through the R/C, you cannot specify operating conditions, such as the operating mode. When the designated time is reached, the system will start operating in the condition that was last used.

Advice



Once either timer is set, the “timer” icon appears on the TOP screen.
The set timer can be checked on the “Setting status” screen (☞page 39).

Advice **Warming up**

- You can set warming-up operation from the app(☞refer to app manual).
- The microcomputer predicts the operation start time based on the last warming-up operation and starts the operation 5 to 60 minutes before the start time so the indoor temp becomes close to the set temp at the operation start set time.
- If you switch ON warming up, set the timer at least one hour before starting the timer operation. If you set warming up within one hour before starting the timer operation, warming up is canceled.
- The warming-up operation will be stopped by stopping the A/C, starting high power and energy-saving operations and disabling the timer. When the unit is running during the warm up operation, the "In operation for warming up" icon:  is displayed in the "Operation status" screen. (☞page 36).

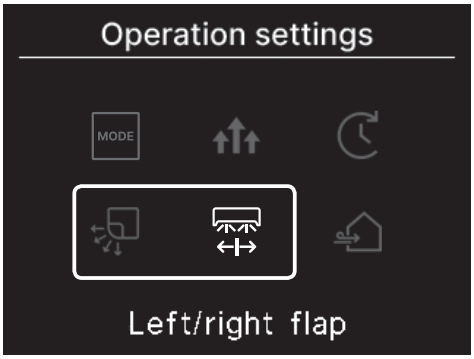
Change flap direction

The change flap direction display is displayed according to the connected IU.

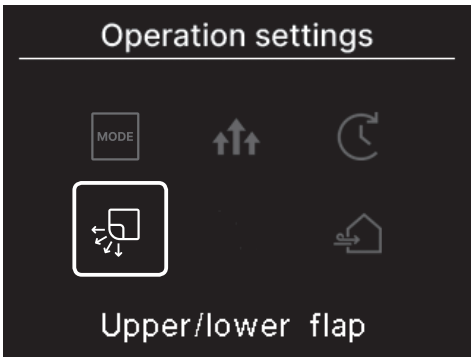
When even one IU with left/right flap and upper/lower is connected, you can change upper/lower and left/right flap.

Upper/lower flap • • • (☞ page 20)

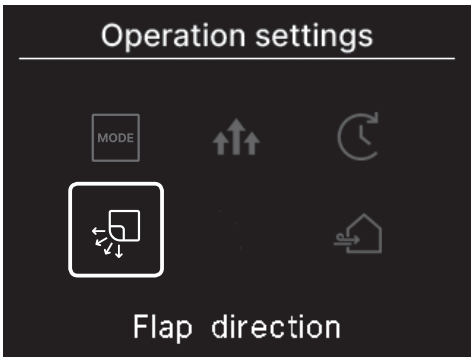
Left/right flap • • • • • (☞ page 21)



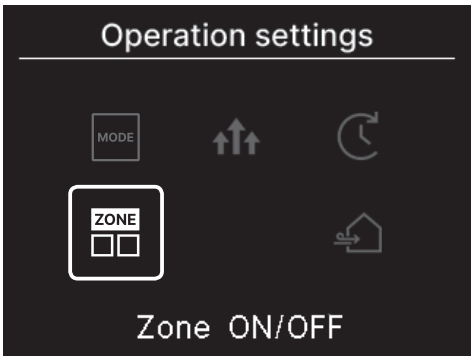
When there is no IU with a left/right flap, and when even one IU with a upper/lower is connected, you can change upper/lower flap (☞ page 20).



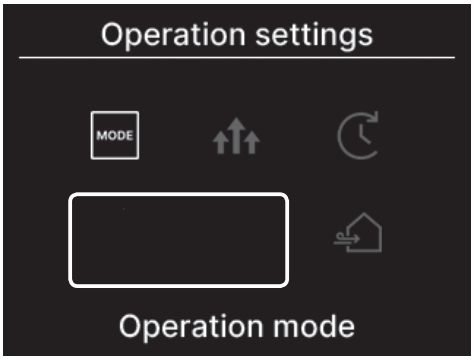
In the case of all FDFs, you can change flap direction (☞ page 22).



In the case of a zone-compatible unit, you can switch each zone ON or OFF(☞ page 23).



In the case of all duct units , you cannot change flap direction.



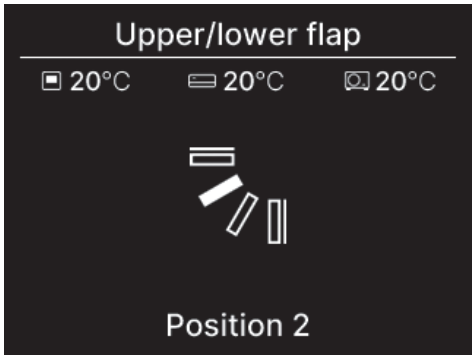
（1） Upper/lower flap

When even one IU with a upper/lower flap is connected, you can change upper/lower flap.

1 Perform the following operation.

TOP ⇒ Menu ⇒  ⇒ 

Operation settings Upper/lower flap



2 The “Upper/lower flap” screen is displayed.

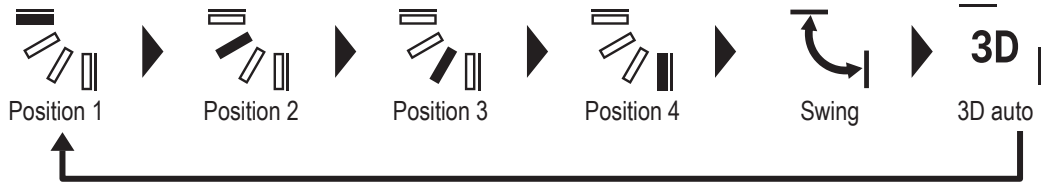
Tap the ⌄ / ⌃ keys to select the desired flap direction and tap the  key to decide.

To swing the flap, select "Swing."

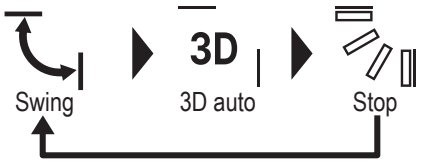
When FDK with a left/right flap is connected, you can select “3D auto”. If you select “3D auto”, the fan speed and flap direction are automatically controlled to air-condition the whole room efficiently (3D auto flow operation).

If you select “3D auto” in either the upper/lower or left/right flap direction, “3D auto” is also selected in the other direction.

■ Flap direction can be selected in the following order.



■ If you set the flap control to "Stop at any position" from the app(☞ refer to app manual), tap the ⌄ / ⌃ keys to select “Swing” or “Stop” to change the flap direction. When FDK with a left/right flap is connected, you can select “3D auto”.



■ When multiple IUs are connected to the R/C for a mixed environment consisting of FDKs with a left/right flap and IUs without a left/right flap, enabling the 3D auto flow operation will set the models without a left/right flap to a flap position set before the 3D auto flow operation was started.

■ Since the flap is controlled automatically in the following operation, it may differ from the display on the R/C.

- When the room temperature is higher than the set temp (In case of the heating operation)
- When the “In operation for heating standby” icon:  or “In operation for defrosting” icon:  is displayed on the “Operation status” screen (In case of the heating operation), cool air is blown horizontally not to blow directly to human body.
- In a high humidity environment (refer to the “Advice” next page)

■ When you select “Swing” while the Anti draft setting (☞ refer to app manual) is enabled, the flap will not swing and be set at flap position 1.

■ Changing the 3D auto flow operation cannot be performed from the SC-SL2, SC-SL3, or SC-SL4. Also note that 3D auto flow operation will not be disabled when you change the flap direction from the SC-SL2, SC-SL3, or SC-SL4 during a 3D auto flow operation.

Advice

If the humidity around the IU is high, the flap position may differ from the set position in order to prevent condensation forming on the IU. In that case, the “During condensation prevention control” icon: is displayed on the “Operation status” screen (☞ page 36).

When the humidity drops, the flap returns to its original position.

Note

• Do not manually move the flaps or panel with anti draft by force. It could damage these flaps and panels.
• Do not blow air downward for a long period of time during the cooling operation. Condensation may be generated and water may drip from the side panel. (In case of Ceiling suspended type)

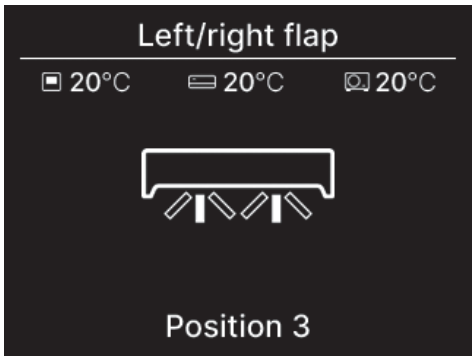
（2）Left/right flap

When even one FDK with a left/right flap is connected, you can change left/right flap.

1 Perform the following operation.

TOP ⇒ Menu ⇒ ⇒

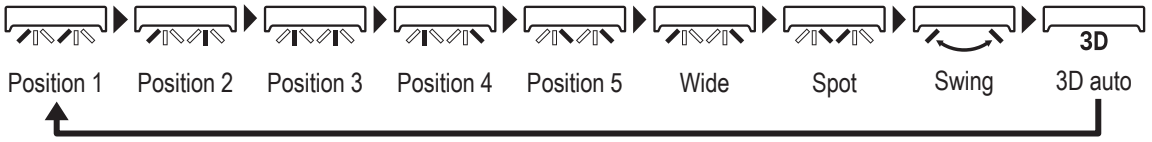
Operation settings　Left/right flap



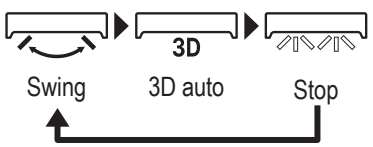
2 The “Left/right flap” screen is displayed.

Tap the ∨ / ∧ keys to select the desired flap direction and tap the OK key to decide.
To swing the flap, select "Swing."

■ Flap direction can be selected in the following order.



■ If you set the flap control to "Stop at any position" from the app(☞ refer to app manual), tap the ∨ / ∧ keys to select “Swing” or “Stop” to change the flap direction.



■ When multiple IUs are connected to the R/C for a mixed environment consisting of FDKs with a left/right flap and IUs without a left/right flap, enabling the 3D auto flow operation will set the models without a left/right flap to a flap position set before the 3D auto flow operation was started.
■ Changing the left/right flap direction and 3D auto flow operation cannot be performed from the SC-SL2, SC-SL3, or SC-SL4. Also note that 3D auto flow operation will not be disabled when you change the flap direction from the SC-SL2, SC-SL3, or SC-SL4 during 3D auto flow operation.

Note

• Do not manually move the flaps by force. It could damage these flaps and panels.
• For FDKs with a left/right flap, it is recommended that the flap should be set toward the right side when there is a wall on the left, or set toward the left side when there is a wall on the right. For more information, refer to the Individual flap control section in the app manual.

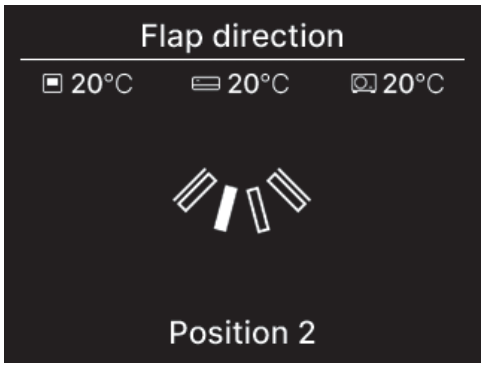
（3）Flap direction (for FDF)

In the case of all FDFs, you can change flap direction.

1 Perform the following operation.

TOP ⇒ Menu ⇒  ⇒ 

Operation settings　Flap direction

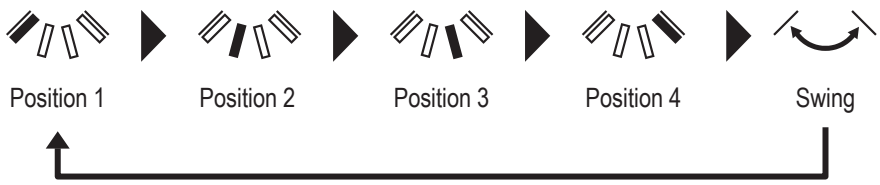


2 The “Flap direction” screen is displayed.

Tap the ∨ / ∧ keys to select the desired flap direction and tap the OK key to decide.

To swing the flap, select "Swing."

■ Flap direction can be selected in the following order.



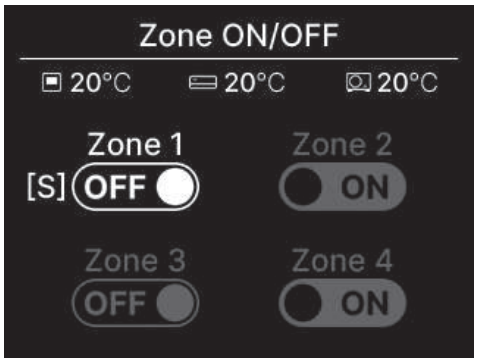
（4）Zone ON/OFF

In the case of the zone-compatible unit, you can switch each zone ON or OFF.

1 Perform the following operation.

TOP ⇒ Menu ⇒  ⇒ 

Operation settings　Zone ON/OFF



2 The “Zone ON/OFF” screen is displayed.

Tap the ∨ / ∧ keys to select the desired zone to switch ON/OFF and tap the OK key to decide.

If there is no common zone, the spill zone is OFF, and one or more other zone are OFF, the spill zone will open automatically and [S] will be displayed next to the Zone icon.

3 Tap the ∨ / ∧ keys to select ON/OFF and tap the OK key to switch Zone ON/OFF.



Advice

Common zone: A zone in which a damper is not installed. Spill zone: A zone in which a damper open automatically. Refer to the IU manual for details.

Ventilation operation (when ventilation device is installed)

The ventilation is turned ON or OFF if the ventilation device is installed.

1 Perform the following operation.

TOP ⇒ Menu ⇒ Operation settings ⇒ ventilation

2 The “Ventilation” screen is displayed.

Tap the ∨ / ∧ keys to select ON and tap the OK key to start the ventilation device operation.

To stop operation, select OFF and tap the OK key.



- The ventilation operation is enabled in case that the external ventilation is set “Independent” (☞ refer to the app manual).
- In case that the external ventilation is set “Disable” or “Interlocking” the ventilation screen is not displayed.

Advice



The “Ventilation” icon is displayed on the TOP screen when ventilation is ON.

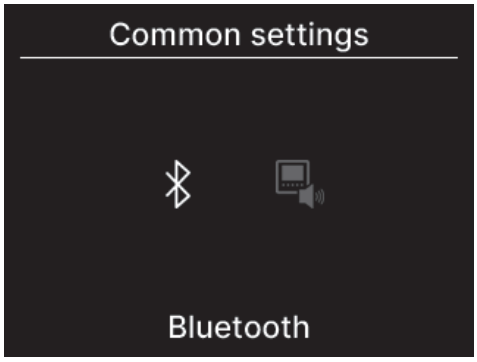
5. Common settings

You can make settings of connection to smartphone, R/C display and operation sound.

1 Perform the following operation.

TOP ⇒ Menu ⇒ 

Common settingss



2 The “Common settings” screen is displayed.

 Bluetooth(☞ page25) • • • • • • You can make settings of connection to smartphone.

 Display & sound(☞ page30) • • • You can make settings of R/C display and operation sound.

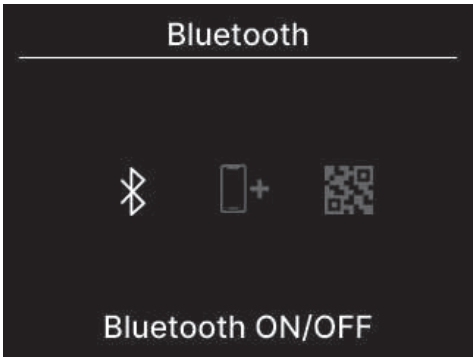
Bluetooth

You can make settings of connection to smartphone.

1 Perform the following operation.

TOP ⇒ Menu ⇒  ⇒ 

Common settingss Bluetooth



2 The “Bluetooth” screen is displayed.

 Bluetooth ON/OFF(☞ page26) • • • You can turn Bluetooth of R/C ON or OFF.

 Pairing mode(☞ page27) • • • • • • You can check the Bluetooth number and model name of the R/C.

 QR code for the app(☞ page27) • • • The QR code for downloading the smartphone app “M-Air PRO” is displayed.

■ Bluetooth ON/OFF

You can turn Bluetooth of R/C ON or OFF.

1 Perform the following operation.

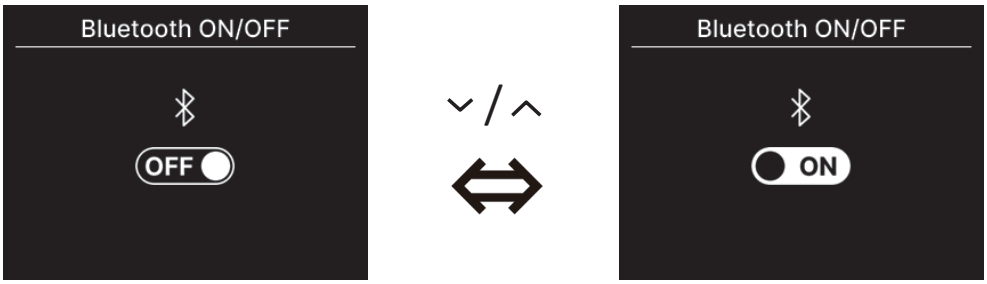
TOP ⇒ Menu ⇒ ⇒ ⇒ ⇒

Common settingss Bluetooth Bluetooth ON/OFF

2 The “Bluetooth ON/OFF” screen is displayed.

Tap the ∨ / ∧ keys to select ON and tap the OK key to turn ON Bluetooth.

To turn OFF Bluetooth, select OFF and tap the OK key.



Advice



The “Bluetooth” icon is displayed on the TOP screen when Bluetooth is ON.
However, the pairing with a smartphone has not been completed.
Refer to page 28 for details on how to pair with a smartphone.

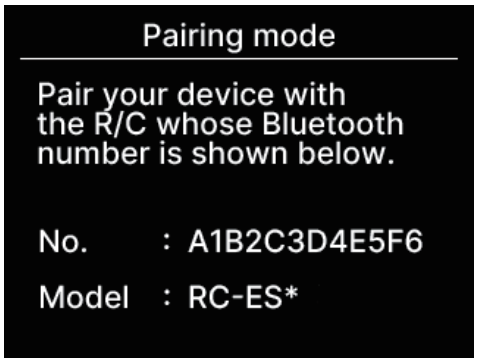
■ Pairing mode

You can check the Bluetooth number and model name of the R/C.

1 Perform the following operation.

TOP ⇒ Menu ⇒ ⇒ ⇒ ⇒

Common settingss Bluetooth Pairing mode



2 The “Pairing mode” screen is displayed.

You can check the Bluetooth number and model name of the R/C.

Note

If your smartphone is Android, you can check the model name and Bluetooth number of each R/C when connecting (☞ page 28). If there are plural R/Cs of the same model, select the R/C for which the Bluetooth number matches.

■ QR code for the app

The QR code for downloading the smartphone app “M-Air PRO” is displayed.

1 Perform the following operation.

TOP ⇒ Menu ⇒ ⇒ ⇒ ⇒

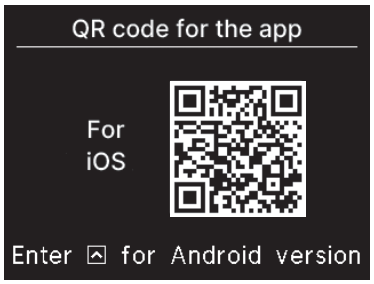
Common settingss Bluetooth QR code for the app

2 The “QR code for app” screen is displayed. Scan the QR code to download the app.

Tap the ⌄ / ⌃ keys to switch between the QR code for Android and iOS.



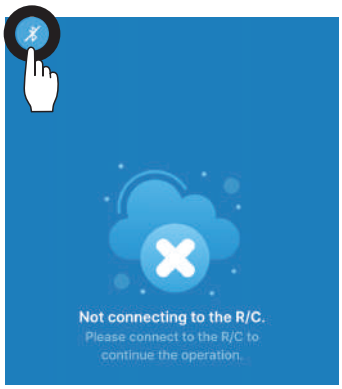
⌄ / ⌃



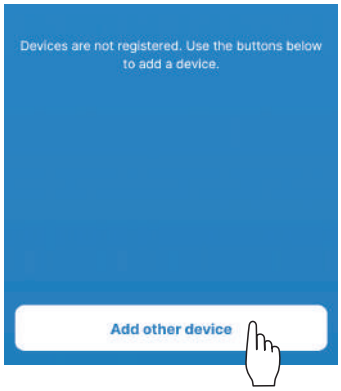
■ Connect a smartphone app

Pair with a smartphone app.

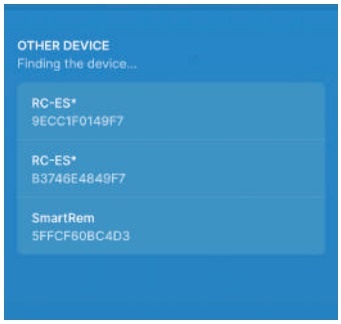
1 Perform the following operation to send a paring request from the app. (☞ refer to app manual)



When not connected to the R/C, a screen as shown on the left is displayed.
Tap the Bluetooth icon.



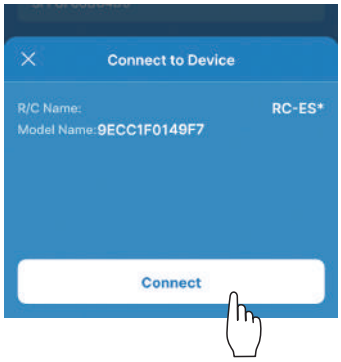
Tap the “Add other device” button.



Devices are displayed.
Select and tap the R/C you want to connect.

Advice

If your smartphone is Android, the list in "OTHER DEVICE” displays the model name and Bluetooth number of each R/C. You can also check the Bluetooth number on the "Pairing mode" screen of the R/C(☞ page 27). If there are plural R/Cs of the same model, touch the R/C for which the Bluetooth number matches.



Tap the “Connect” button.

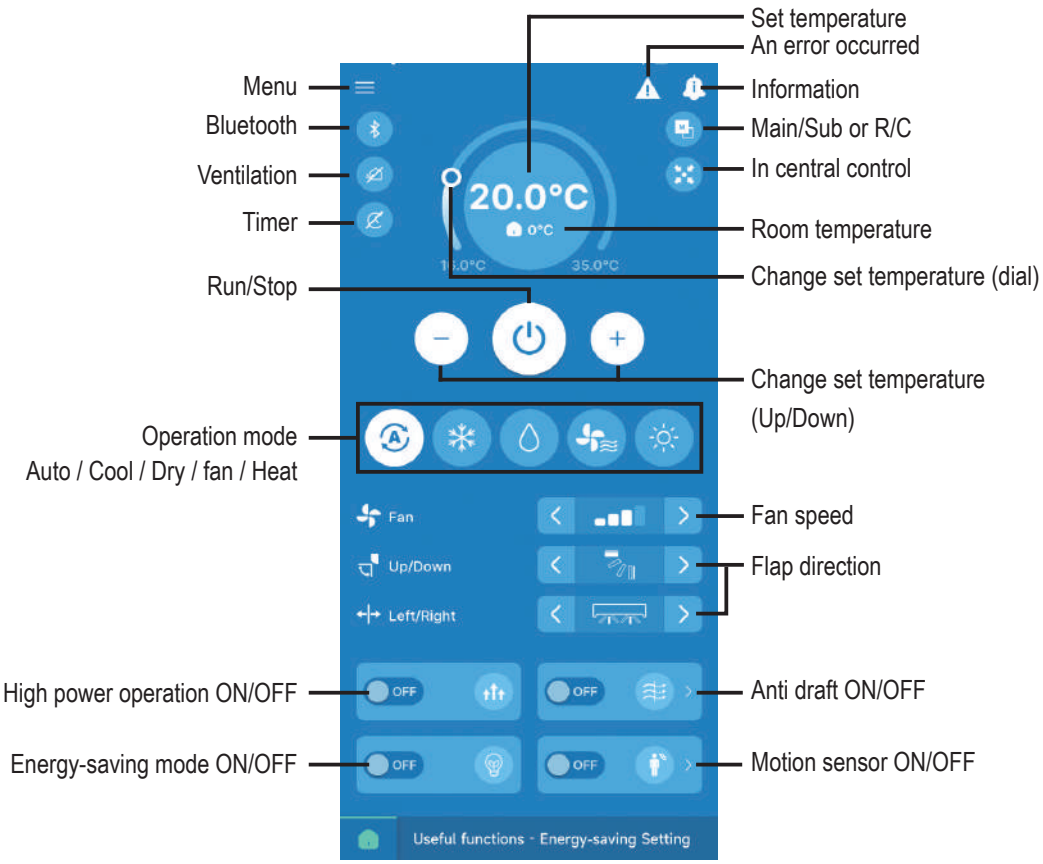
2 This screen is displayed when tap the “connect” button on the app.

Check the passkey and tap the OK key.



3 This screen is displayed on the app when the pairing is completed.

*Refer to the app manual for details on how to operate the smartphone app.



Advice

R/C cannot be operated while operating from the app. To operate the R/C, disconnect the smartphone.

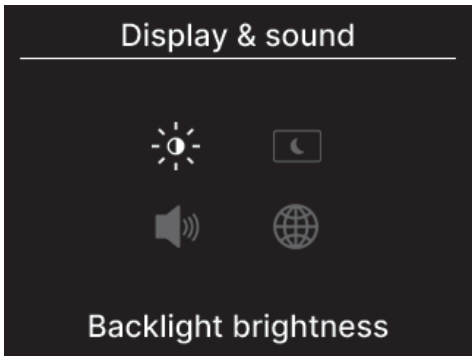
Display & sound

You can make settings of R/C display and operation sound.

1 Perform the following operation.

TOP ⇒ Menu ⇒  ⇒ 

Common settingss Display & sound



2 The “Display & sound” screen is displayed.

 Backlight brightness(☞ page31) • • • • You can adjust the backlight brightness.

 Backlight lighting time(☞ page31) • • • You can set the backlight lighting period.

 Operation sound(☞ page32) • • • • • • You can set to have the operation sound ON/OFF when the keys are operated.

 Language(☞ page32) • • • • • • • • • • You can select the language to be displayed on the R/C.

■ Backlight brightness

You can adjust the backlight brightness of the R/C display.

1 Perform the following operation.

TOP ⇒ Menu ⇒ ⇒ ⇒ ⇒

Common settingss | Display & sound | Backlight brightness



2 The “Brightness” screen is displayed. You can adjust the backlight brightness of the screen to a desired level by tapping the ∨ / ∧ keys.

3 After you make the settings, tap the OK key.

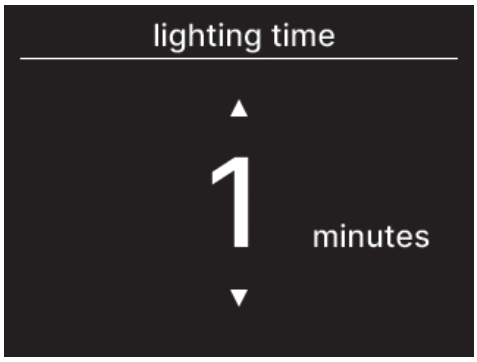
■ Backlight lighting time

You can set the backlight lighting time of the R/C screen. If you do not touch any keys during the set time after the touch key operation, the backlight turns off.

1 Perform the following operation.

TOP ⇒ Menu ⇒ ⇒ ⇒ ⇒

Common settingss | Display & sound | Backlight lighting time



2 The “lighting time” screen is displayed. You can set the backlight lighting time by the ∨ / ∧ keys.

3 After you make the settings, tap the OK key.

Note

When the “Connecting with smartphone……” screen is displayed, the backlight is ON regardless of the backlight lighting time that has been set.

■ Operation sound

You can set to have the operation sound ON/OFF when the keys are operated.

1 Perform the following operation.

TOP ⇒ Menu ⇒ ⇒ ⇒ ⇒

Common settingss Display & sound Operation sound

2 The “Operation sound setting” screen is displayed.

Select ON or OFF for the operation sound by the ∨ / ∧ keys.



ON… When a key is tapped, a “beep” sounds.

OFF… There is no beep.

3 After you make the settings, tap the OK key.

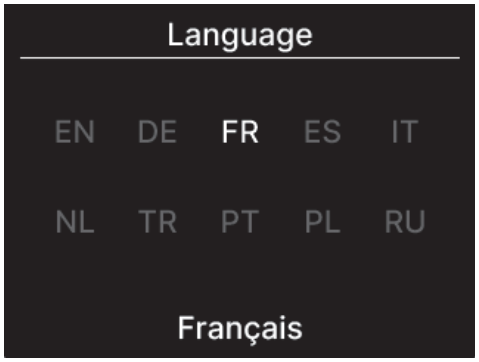
■ Language

You can select the language to be displayed on the R/C.

1 Perform the following operation.

TOP ⇒ Menu ⇒ ⇒ ⇒ ⇒

Common settingss Display & sound Language



2 The “Language” screen is displayed. Select a language to be displayed on the R/C by the ∨ / ∧ keys and tap the OK key.

You can select from the following languages

EN	: English	DE	: German	FR	: French	ES	: Spanish
IT	: Italian	NL	: Dutch	TR	: Turkish	PT	: Portuguese
PL	: Polish	RU	: Russian				

6. An error occurred

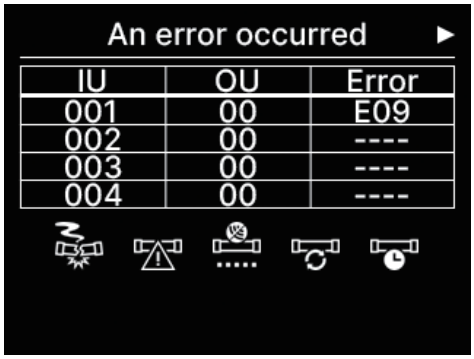
If an error occurs in your R/C or IU/OU that are connected to your R/C, the ⚠ is displayed on the TOP screen.

Perform the following operation, and then stop operation and contact the contact point (☞ page41) or your dealer.



The displayed icon will vary depending on the error.

Flashing/Lights up	Color	Error contents
Flashing	Red	When one of the following errors occurred in the connected IUs. • When refrigerant leakage has been detected. • When an error occurred in all the connected IUs.
	Yellow	When an error occurred in the R/C.
Lights up	Red	When an error occurred in some of the connected IUs, but not all.
	Green	When one of the following errors or maintenance information occurred in the connected IUs. • When maintenance code appears • When refrigerant sensor is disconnected • When there is refrigerant sensor failure • When it is time to replace refrigerant sensor • Reminder to replace refrigerant sensor



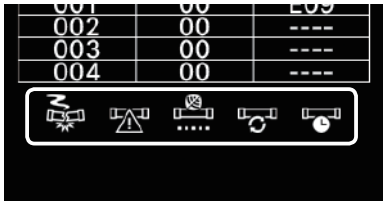
1 When the ⚠ is displayed on the TOP screen and if you tap a touch key other than the ⏻ key, “An error occurred” screen will be displayed. If you view the error code once, “An error occurred” screen will not be displayed with this method.

Error codes are categorized as follows:

E** : When an error occurred

M** : When maintenance is required

CAUTION

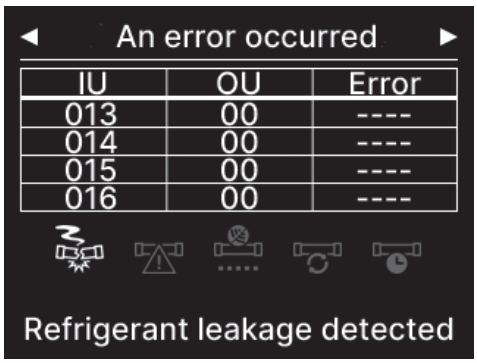


If an error code or maintenance code related to the refrigerant sensor is lit, the information is notified to you with a corresponding icon.

If a refrigerant leakage detection is notified to you, turn off appliances using fire including combustion appliances and ventilate the room.

<Error code or maintenance code related to the refrigerant sensor>

E23		**Refrigerant leakage detected** Appears when refrigerant is leaking. Ventilation the room immediately when you see this icon.
M11		**Refrigerant sensor failure** Displayed when the refrigerant sensor is faulty.
M12		**Refrigerant sensor disconnected** Displayed when the refrigerant sensor is disconnected.
M51		**Time to replace refrigerant sensor** Displayed when it becomes the scheduled time to replace the refrigerant sensor.
M52		**Reminder: replace refrigerant sensor** Appears when getting close to the scheduled time to replace refrigerant sensor.



2 When more than 5 IUs are connected, tap the ⌄ key to switch the unit to be displayed.
When the last unit is displayed, tap the ⌄ key to check the flashing icon.

When the following icon is selected, tap the OK key to display the reset screen.

- "Time to replace refrigerant sensor" icon :
- "Reminder: replace refrigerant sensor" icon :



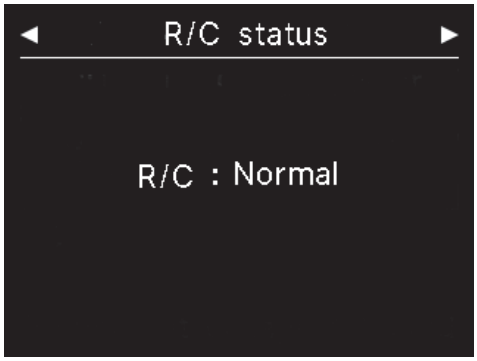
Select "Yes" to reset and turn off the selected icon light.
However, even after the icon light has been turned off, the icon will light up again if the sensor has not been replaced.

: Light up again when switching between run/stop

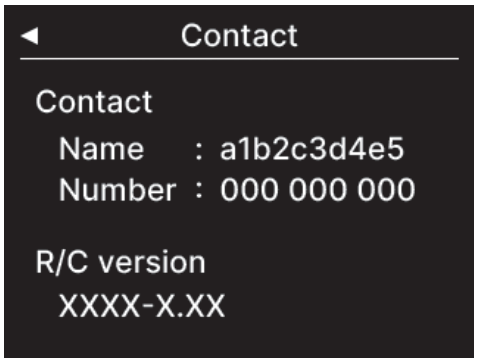
: Light up again after 720 hours

CAUTION

The refrigerant sensor is a component that requires regular maintenance.
If you continue to use the refrigerant sensor beyond the replacement period, a fire may result if the refrigerant leaks.



3 While the icon displayed on the farthest right is selected in the “An error occurred” screen, tap the ⌄ key to display the “R/C status” screen.
Error information of R/C is displayed. If there is no error occurred, “Normal” is displayed.



4 In the “R/C status” screen, tap the ⌄ key to display the “Contact” screen. It displays the contact information for customers to request service.
The information displayed is the information registered in advance to the R/C from the smartphone app (☞ refer to app manual).

Advice

You can also display the “An error occurred” screen by performing the following operation.

TOP ⇒ Menu ⇒ ⚠
An error occurred

You can set not display the ⚠ on the TOP screen from the app(☞ refer to app manual).

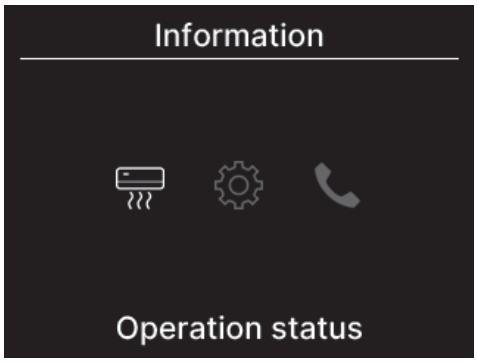
Even if you turn OFF the display of ⚠, it is displayed if an error code or maintenance code related to the refrigerant sensor is occurring.

7. Information

You can check the operation status, setting status, and contact point.

1 Perform the following operation.

TOP ⇒ Menu ⇒  Information



2 The “Information” screen is displayed.

 Operation status(☞ page36) • • • You can check the operation status of R/C and the connected A/C.

 Setting status(☞ page39) • • • • You can check the setting status of R/C and the connected A/C.

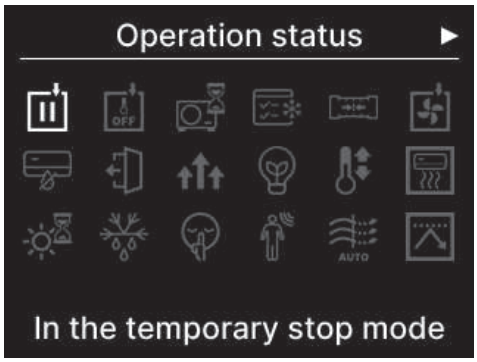
 Contact(☞ page41) • • • • • • • You can check the contact point for customers to request service.

Operation status

You can check the operation status of R/C and the connected A/C.

1 Perform the following operation.

TOP ⇒ Menu ⇒  Information ⇒  Operation status



2 The “Operation status” screen is displayed.

Icons showing the R/C and A/C operation status are displayed.

If the “Filter cleaning time” icon :  is selected, tap the  key to go to the reset screen.



You can select “Yes” to reset and turn off the icon light.
After cleaning the filter, turn off the icon light.

<Operation status icon>

	**In the temporary stop mode**
	Displayed when the temporary stop is operated by IU's external input. This is not a failure because the mode is a result of IU's external input.
	**In forced thermostat OFF**
	Displayed when the forced thermostat OFF is operated by the IU's external input. This is not a failure because the mode is a result of IU's external input.
	**Pending operation**
	The icon can appear on the R/C 's display for up to 30 minutes when the protection of compressor is required during the first operation after supplying power to a breaker or after a power outage. When the icon appears, 'the cooling machine oil protect control' is working. This is not a failure sign. Please wait until the icon disappears.
	**In the test operation of cooling**
	Displayed during the test operation of cooling.
	**In the adjustment of static pressure**
	Displayed while the duct-type IU is in operation for the adjustment of static pressure.
	**In the fan operation**
	When selected operation modes are different between IUs connected to OU unable to operate cooling and heating at the same time, the icon of 'In the fan operation' is displayed and the operation mode changes to the fan operation.
	**During condensation prevention control**
	If humidity around IU is high, the fan speed and flap direction may differ from the set fan speed and flap direction in order to prevent condensation happened on IU, and the draft prevention flap may close. In this case, the 'During condensation prevention control' icon is displayed. When the level of humidity drops, the fan speed and flap direction will return to normal, and the draft prevention flap will open.
	**In operation for home leave**
	Displayed while the unit is in operation for home leave. When the unit is not used for a long period of time, the room temp is maintained at a moderate level, avoiding extremely hot or cool temperatures.
	**In operation for high power**
	Displayed when the air conditioner is operated with high power.
	**In operation for energy-saving**
	Displayed when the air conditioner is in the energy-saving operation. Set temp is fixed at 28˚C in the cooling operation or 22˚C in the heating operation. Since the capacity is controlled automatically based on the outdoor temp, energy can be saved without losing comfort.
	**In setting temperature shift**
	Displayed when 'In setting temp shift' is operated by IU's external input. This is not a failure because the mode is a result of IU's external input.

	**In operation for warning up**
	When Warm-up ON is selected with 'Set ON timer by hour' or 'Set ON timer by clock', the operation starts 5 to 60 minutes earlier based on the previous warm up operation to regulate the room temp. It will stay within the set temp range at the set time to start the operation. During the warm up operation, the icon of 'In operation for warming up' is displayed. It will disappear at the set time to start the operation.
	**In operation for heating standby**
	At the start of the heating operation, the fan needs to stop to prevent the release of cold air from IU. The icon is displayed in the preparation for heating. It disappears when the release of warm air is ready. The heating operation starts after the icon's disappearance.
	**In operation for defrosting**
	When frost is on OU, the heating performance degrades. In this case, the unit will automatically switch to its operation mode to defrost, and hot air will stop blowing out from IU. The icon of 'In operation for defrosting.' is displayed during the heating defrost operation. Once the defrost operation has completed, the icon will disappear and the unit will return to the normal heating operation.
	**In OU silent operation**
	Displayed when the OU is in silent operation. In some cases, the unit is operated by the silent control set on the R/C, and in other cases, it is operated by a centralized control device (sold separately) or an external input from IU.
	**In MOTION SENSOR CONTROL**
	The motion sensor detects presence of a person and the person's activity level, which helps to perform the power control and the auto-off control. The icon is displayed when the unit is running in any of the motion sensor controls.
	**In 'auto anti draft control'**
	Under auto anti draft control.
	**In DEMAND CONTROL**
	Displayed during demand control.
	**Filter cleaning time**
	Displayed when it becomes the scheduled time to clean the filter.
	**In operation for back-up**
	Displayed when IU is running with either or both of the rotation control and the capacity back-up function.
	**In operation for fault back-up**
	The icon is displayed when IU is running with the fault back-up function.

	Schedule of Periodical check
	Displayed when it becomes the scheduled time of periodical check.
	Schedule of Periodical check 1
	Displayed when it becomes the scheduled time of periodical check OU. When the icon is displayed, contact your dealer or the number shown on the app to request a periodical check.
	Schedule of Periodical check 2
	Displayed when it becomes the scheduled time of periodical check OU. When the icon is displayed, contact your dealer or the number shown on the app to request a periodical check.
	In operation for OU back-up
	Displayed when error is found in OU and the operation mode is switching to 'backup' (emergency mode). When the icon is displayed, contact your dealer or the number shown on the app to request a periodical check.

Advice

You can set not display the and on the "Information" screen from the app(☞ refer to app manual).

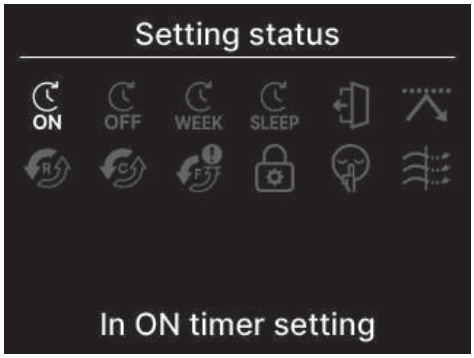
Setting status

You can check the setting status of R/C and the connected A/C.

1 Perform the following operation.

TOP ⇒ Menu ⇒ ⇒

Information Setting status



2 The "Setting status" screen is displayed.

Icon showing the R/C and A/C setting status are displayed.

<Setting status icon>

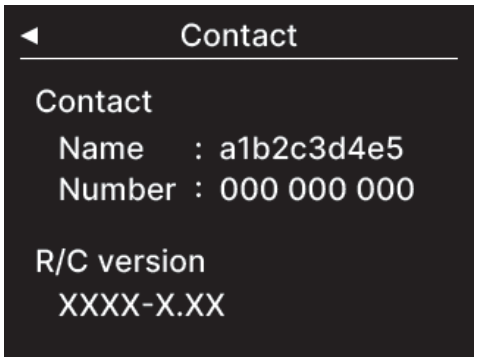
	**In ON timer setting**
	Displayed when the ON timer by hour or the ON timer by clock is set.
	**In OFF timer setting**
	Displayed when the OFF timer by hour or the OFF timer by clock is set.
	**In WEEKLY TIMER setting**
	Displayed when the weekly timer is set.
	**In SLEEP TIMER setting**
	Displayed when the sleep timer is set. A/C will automatically stop working when the set amount of time has passed since the start of operation.
	**In HOME LEAVE MODE setting**
	Displayed when the Home Leave mode is set. When the unit is not used for a long time, the room temp is maintained at a moderate level, so the room will not be extremely hot or cold.
	**In PEAK-CUT TIMER setting**
	Displayed when the peak-cut timer is set.
	**In ROTATION CONTROL setting**
	Displayed when the rotation control is set as Active.
	**Setting capacity back-up function**
	Displayed when the capacity back-up function is set as Active.
	**Setting fault back-up function**
	Displayed when the fault back-up function is set as Active.
	**In Permission / Prohibition setting**
	Displayed when the permission/prohibition setting is configured.
	**In OU SILENT setting**
	Displayed when the OU's Silent mode control is set (including the timer setting).
	**Anti draft ON**
	Displayed when the draft prevention is active.

Contact

You can check the contact point for customers to request service.

1 Perform the following operation.

TOP ⇒ Menu ⇒ Information ⇒ Contact



2 The “Contact” screen is displayed.

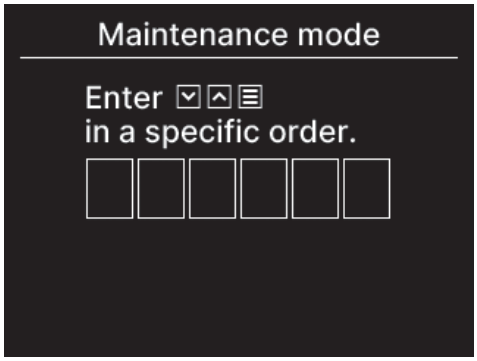
Display the contact information for customers to request service. The information displayed is the information registered from app to the R/C from the smartphone app(☞ refer to app manual).

8. Maintenance mode

Some of the service functions can be set from the “Maintenance mode”.



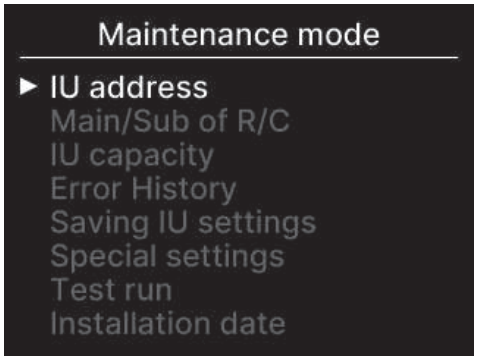
1 Holding down the OK key on the TOP screen.



2 The “Maintenance mode” screen is displayed.

A specific code is required to operate this mode. Enter this code as follows:

⇒ ⇒ OK ⇒ ⇒ ⇒ OK

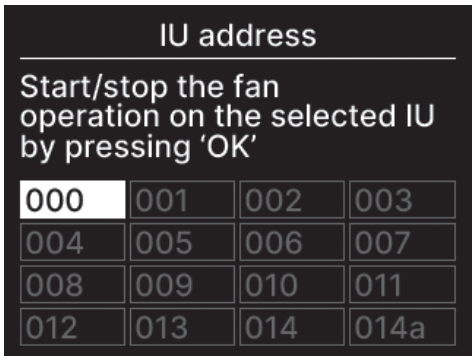


3 The list of the “Maintenance mode” screen is displayed.

- ■ IU address …☞ page43
- ■ Main/Sub of R/C …☞ page43
- ■ IU capacity …☞ page43
- ■ Error history …☞ page44
- ■ Saving IU settings …☞ page44
- ■ Special settings …☞ page44
- ■ Test run …☞ page46
- ■ Installation date …☞ page47

IU address

You can check the address of the IU.



When select the IU and tap the OK key on the "IU address" screen, the fan of the selected IU can be operated.
Tap the OK key again or select other IU by the ∨ / ∧ keys to stop the fan operation.

Note

- You can select only one unit for performing fan operation.
- The fan operation cannot be performed if your R/C is set as a sub R/C.

Main/Sub of R/C

You can change the main/sub setting of the R/C.



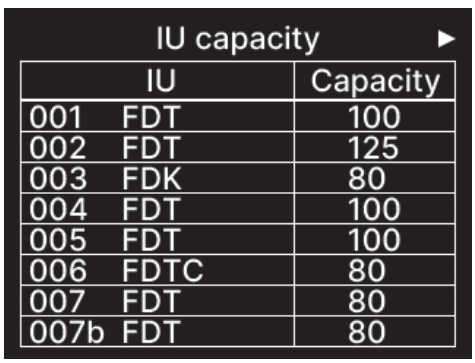
Select the R/C main/sub setting by the ∨ / ∧ keys and tap the OK key to decide.

CAUTION

If you make changes, the microcomputer of the R/C is reset (to the power restoration status).
If you make changes, the R/C cancels pairing with all smartphones. Since R/C registration is not deleted from the device list on the smartphone (OS), perform the operation to cancel pairing with the R/C from the setup function of the smartphone. (If you do not cancel it, you cannot establish pairing with the same R/C again)
When pairing is canceled, the information in Name settings registered in the app is deleted and will not be inherited when you perform pairing again(☞ refer to app manual).

IU capacity

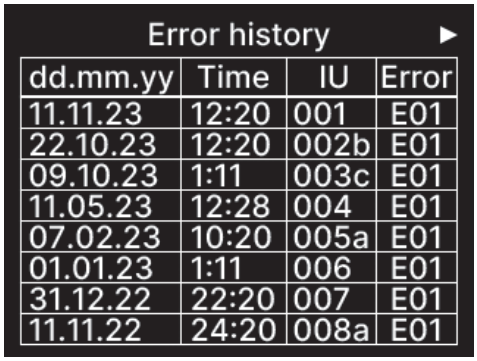
You can check the capacity of the IU connected to the R/C.



The address, format, and capacity of the connected IUs are displayed.
Tap the ∨ key to display the next page.

Error history

You can check the error history.



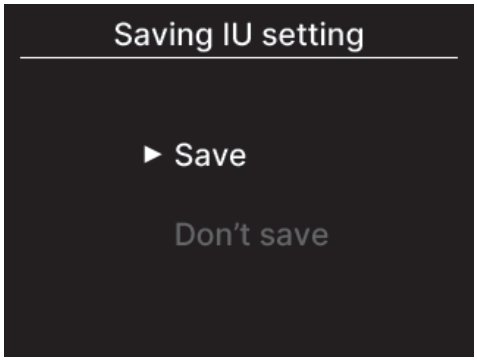
Displays the error date and time, IU address, and error code.

Tap the ⌄ key to display the next page.

History can be deleted from app(☞ refer to the app manual).

Saving IU setting

You can save IU setting.



All settings of the IUs connected the R/C can be saved in the R/C.

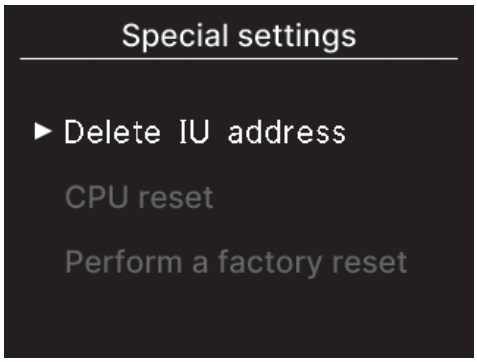
Tap the ⌄ / ⌃ keys to select the desired operation and tap the OK key to decide.

Note

Have you ever lost setting contents after replacing an IU board? When IU settings are saved in the R/C, the saved data can be transferred and written to the IU.
(Operation by the app is need for transferring the save data.)

Special settings

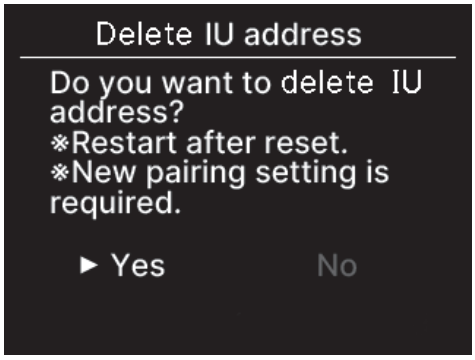
You can perform other service options.



The selected screen is displayed.

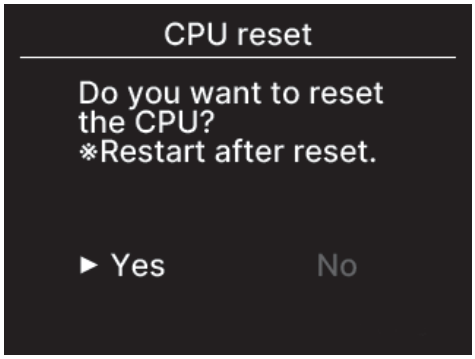
Tap the ⌄ / ⌃ keys to select the desired operation and tap the OK key to decide.

■ Delete IU address



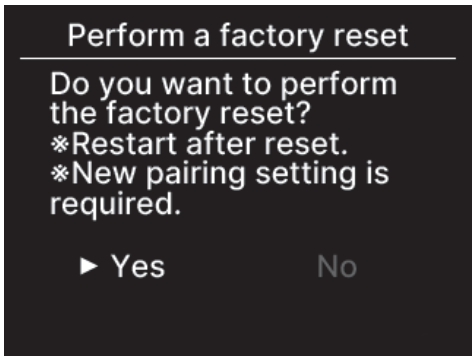
Delete the memory of the IU address for multi (KX) units.

■ CPU reset



Reset the microcomputer of the connected IUs & OUs (to the power restoration status)

■ Factory reset



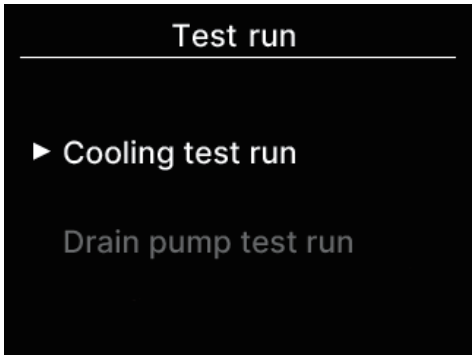
Reset the settings of the connected R/C and IUs to the initial settings (factory settings).

CAUTION

If you perform any of the special settings, the microcomputer of the R/C is reset (to the power restoration status).
If you perform operations such as "Delete IU address" or “Factory reset," the R/C cancels pairing with all smartphones. Since R/C registration is not deleted from the device list on the smartphone (OS), perform the operation to cancel pairing with the R/C from the setup function of the smartphone. (If you do not cancel it, you cannot establish pairing with the same R/C again.) When pairing is canceled, the information in Name settings registered in the app is deleted and will not be inherited when you perform pairing again(☞ refer to app manual).

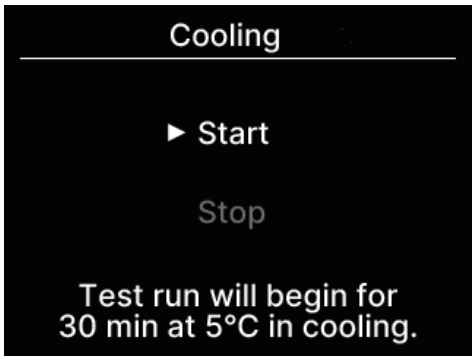
Test run

You can perform the test run of A/C.



Tap the ﹀ / ﹀ keys to select the desired test run and tap the OK key to decide.

■ Cooling test run



This can be operated when the room temp is too low to start the cooling operation.

This can be operated during stpped or cooling operation.

Select “Start” and tap the OK key to start the test run.

It operates for 30 minutes by decreasing the set temp to 5°C.

Select “Stop” during test run and tap the OK key to stop the test run.

Note

- The test run is performed for 30 minutes and then ends.
- If you run or stop the unit, change the operation mode, or change the set the test run stops.

■ Drain pump test run



Drain pump can be operated independently.

Select “Start” and tap the OK key to start the test run.

Select “Stop” during test run and tap the OK key to stop the test run.

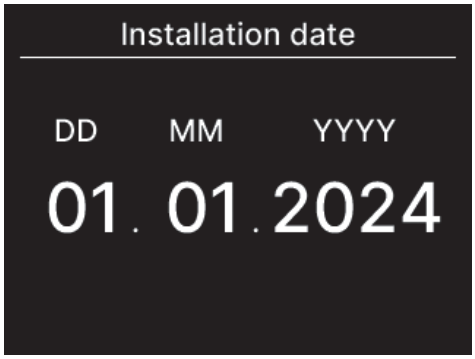
The test run also stops when the screen is moved to another screen.

CAUTION

After checking the operation by running a drain pump test run, be sure to perform the stop operation.

Installation date

You can set the installation date.



Set in the order of date, month, and year.
Select the number using the ⌄ / ⌃ keys and tap the OK key to decide and to set the next item.

9. After-sale service

● Inform your dealer

●Model name ●Date of installation ●Failure conditions: As precise as possible. ●Your address, name, and telephone number

● Moving

The moving of the unit requires special technology. Consult your dealer.

Necessary expenses for the moving of the unit will be charged.

● Repairs after Warranty Period

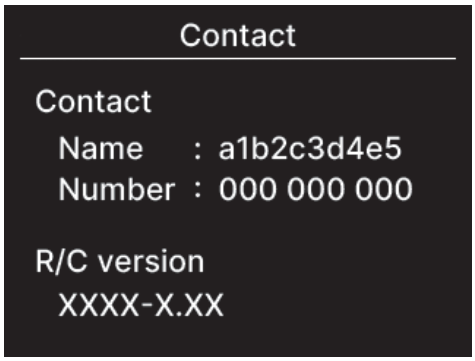
Consult your dealer. Fare-paying services may be possible at the request of customer.

(The warranty period is one year counting from the date of installation.)

● Inquiry about After-sale Service

Contact your dealer or the service contact.

Notice of inspection date



For the following cases, the “Contact” screen is displayed when the operation starts/stops.

• 10 years have passed since use.

• When it is the inspection month that has been registered on the app.

When this screen is displayed, contact your dealer.