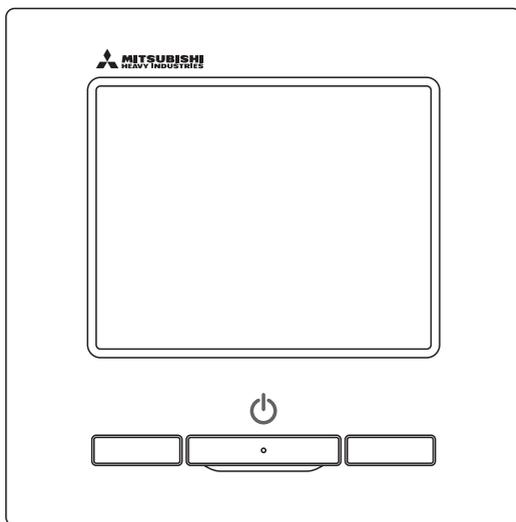


eco touch 触摸线控器 RC-EXC3

使用向. 手册



使用向. 手册 简体中文

Quick reference ENGLISH

感谢您使用eco touch触摸线控器。

本用户说明记载了安全注意事项。为了正确使用请在使用前务必仔细阅读该说明。

阅读完毕后，请将本手册置于可以随时取阅的地方，方便使用者查阅。

使用者变更时请将本说明一并交给新使用者。

请客户不要自行安装，重装设备。（将无法保证安全和使用功能）

eco touch REMOTE CONTROL

QUICK REFERENCE

INSTALLATION

For the operation part of this Quick reference refer to page 20.

Refer to the “Installation manual” on the following web site for details.

http://www.mhi-mth.co.jp/en/products/detail/air-conditioner_users_manual.html

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1. Safety precautions

- Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.

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

It could have serious consequences depending on the circumstances.

- The following pictograms are used in the text.

	Never do.		Always follow the instructions given.
--	-----------	---	---------------------------------------

- 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.

WARNING



Consult your dealer or a professional contractor to install the unit.

Improper installation made on your own may cause electric shocks, fire or dropping of the unit.



Installation work should be performed properly according to this installation manual.

Improper installation work may result in electric shocks, fire or break-down.



Be sure to use accessories and specified parts for installation work.

Use of unspecified parts may result in drop, fire or electric shocks.



Install the unit properly to a place with sufficient strength to hold the weight.

If the place is not strong enough, the unit may drop and cause injury.



Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.

Power source with insufficient and improper work can cause electric shock and fire.



Shut OFF the main power supply before starting electrical work.

Otherwise, it could result in electric shocks, break-down or malfunction.



Do not modify the unit.

It could cause electric shocks, fire, or break-down.



Be sure to turn OFF the power circuit breaker before repairing/ inspecting the unit.

Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.

⚠️WARNING

Do not install the unit in appropriate environment or where inflammable gas could generate, flow in, accumulate or leak.



If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor, corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline solution, special spray, etc. are used, it could cause electric shocks, break-down, smoke or fire as a result of significant deterioration of its performance or corrosion.

Do not install the unit where water vapor is generated excessively or condensation occurs.



It could cause electric shocks, fire, or break-down.

Do not use the unit in a place where it gets wet, such as laundry room.



It could cause electric shocks, fire, or break-down.

Do not operate the unit with wet hands.



It could cause electric shocks.

Do not wash the unit with water.



It could cause electric shocks, fire, or break-down.

Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.



Improper connections or fixing could cause heat generation, fire, etc.

Seal the inlet hole for remote control cable with putty.



If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

If dew or water enters the unit, it may cause screen display anomalies.

When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.



It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc.

The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.

Do not leave the remote control with its upper case removed.



If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

 CAUTION

Do not install the remote control at following places.

- (1) It could cause break-down or deformation of remote control.
- Where it is exposed to direct sunlight
 - Where the ambient temperature becomes 0 °C or below, or 40 °C or above
 - Where the surface is not flat
 - Where the strength of installation area is insufficient
- (2) Moisture may be attached to internal parts of the remote controller, resulting in a display failure.
- Place with high humidity where condensation occurs on the remote controller
 - Where the remote controller gets wet
- (3) Accurate room temperature may not be detected using the temperature sensor of the remote controller.
- Where the average room temperature cannot be detected
 - Place near the equipment to generate heat
 - Place affected by outside air in opening/closing the door
 - Place exposed to direct sunlight or wind from air conditioner
 - Where the difference between wall and room temperature is large
- (4) When you are using the automatic grille up and down panel in the IU, you may not be able to confirm the up and down motion.
- Where the IU cannot be visually confirmed



To connect to a personal computer via USB, use the dedicated software.



Do not connect other USB devices and the remote controller at the same time.

It could cause malfunction or break-down of the remote controller/personal computer.

2 . Accessories & Prepare on site

Following parts are provided.

Accessories	R/C main unit, wood screw (ø3.5 x 16) 2 pcs, Quick reference
-------------	--

Following parts are arranged at site. Prepare them according to the respective installation procedures.

Item name	Q'ty	Remark
Switch box For 1 piece or 2 pieces (JIS C8340 or equivalent)	1	These are not required when installing directly on a wall.
Thin wall steel pipe for electric appliance directly on a wall. (JIS C8305 or equivalent)	As required	
Lock nut, bushing (JIS C8330 or equivalent)	As required	
Lacing (JIS C8425 or equivalent)	As required	Necessary to run R/C cable on the wall.
Putty	Suitably	For sealing gaps
Molly anchor	As required	
R/C cable (0.3 mm ² x 2 pcs)	As required	See right table when longer than 100 m

When the cable length is longer than 100 m, the max size for wires used in the R/C case is 0.5 mm². Connect them to wires of larger size near the outside of R/C. When wires are connected, take measures to prevent water, etc. from entering inside.

≦ 200 m	0.5 mm ² x 2-core
≦ 300m	0.75 mm ² x 2-core
≦ 400m	1.25 mm ² x 2-core
≦ 600m	2.0 mm ² x 2-core

3 . Installation place

Secure the installation space shown in the figure.

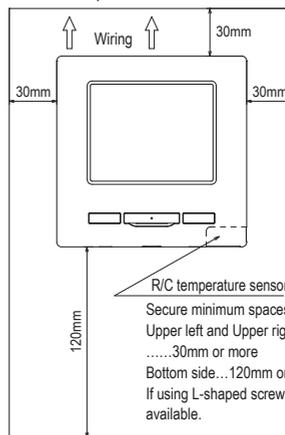
For the installation method, "embedding wiring" or "exposing wiring" can be selected.

For the wiring direction, "Backward", "Upper center" or "Upper left" can be selected.

Determine the installation place in consideration of the installation method and wiring direction.

If you decide to use the automatic grille up and down panel in the IU, make sure you place the IU where you can visually confirm the up and down motion of the grille.

Installation space

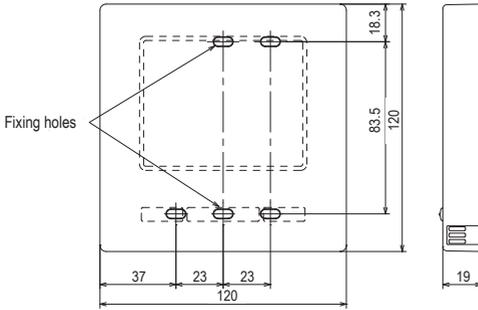


Secure minimum spaces for disassembling the case.
 Upper left and Upper right sides
30mm or more
 Bottom side...120mm or more
 If using L-shaped screwdriver, 50mm or more is available.

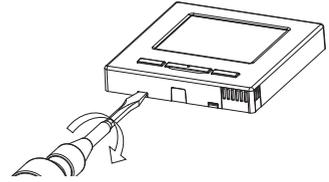
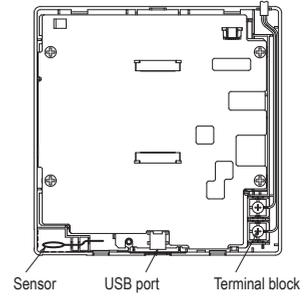
4 . Installation procedure

Perform installation and wiring work for the remote controller according to the following procedure.

Dimensions (Viewed from front)



PCB side (Viewed from rear)



To remove the upper case from the bottom cases of R/C

· Insert the tip of flat head screwdriver or the like in the recess at the lower part of R/C and twist it lightly to remove. It is recommended that the tip of the screwdriver be wrapped with tape to avoid damaging the case.

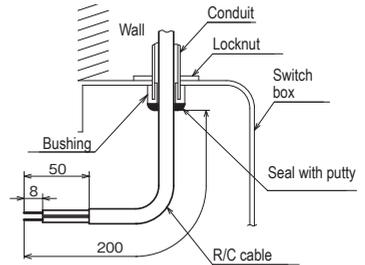
Take care to protect the removed upper case from moisture or dust.

In case of embedding wiring

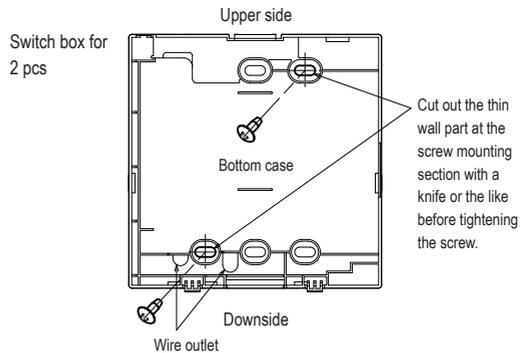
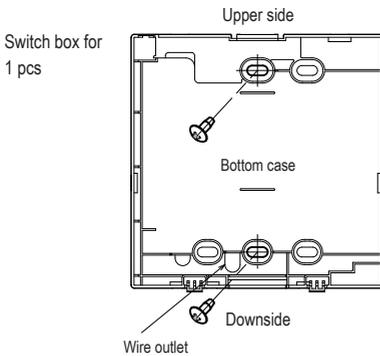
(When the wiring is retrieved "Backward")

① Embed the switch box and the R/C wires beforehand.

Seal the inlet hole for the R/C wiring with putty.



② When wires are passed through the bottom case, fix the bottom case at 2 places on the switch box.



- ③ Connect wires from X and Y terminals of R/C to X and Y terminals of indoor unit. R/C wires (X, Y) have no polarity. Fix wires such that the wires will run around the terminal screws on the top case of R/C.

- ④ Install the upper case with care not to pinch wires of R/C.

Cautions for wire connection

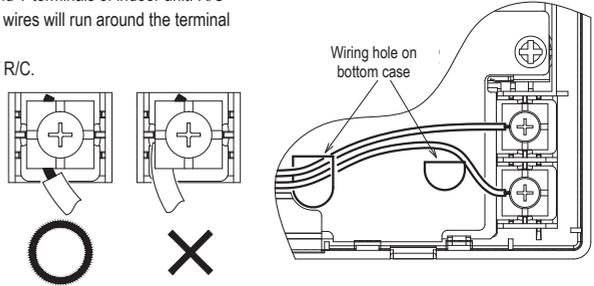
Use wires of no larger than 0.5 mm² for wiring running through the remote control case. Take care not to pinch the sheath.

Tighten by hand (0.7 N·m or less) the wire connection. If the wire is connected using an electric driver, it may cause failure or deformation.

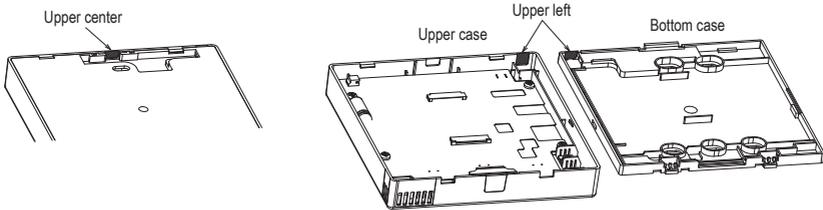
In case of exposing wiring

(When the wiring is taken out from the “upper center” or “upper left” of R/C)

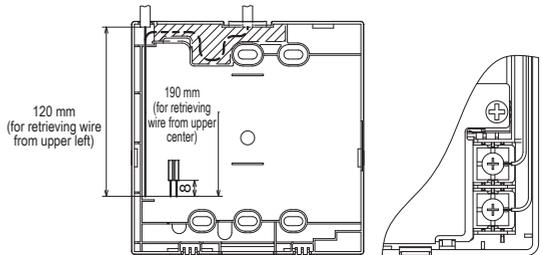
- ① Cut out the thin wall sections on the cases for the size of wire.



When taking the wiring out from the upper center, open a hole before separating the upper and bottom cases. This will reduce risk of damaging the PCB and facilitate subsequent work.
When taking the wiring out from the upper left, take care not to damage the PCB and not to leave any chips of cut thin wall inside.



- ② Fix the bottom R/C case on a flat surface with two wood screws.
- ③ In case of the upper center, pass the wiring behind the bottom case. (Hatched section)
- ④ Connect wires from X and Y terminals of R/C to X and Y terminals of indoor unit. R/C wires (X, Y) have no polarity. Fix wires such that the wires will run around the terminal screws on the top case of R/C.
- ⑤ Install the top case with care not to pinch wires of R/C.
- ⑥ Seal the area cut in ① with putty.

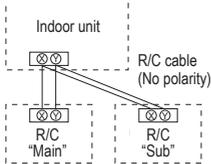


5. Main/Sub setting when more than one remote control are used

Up to two units of R/C can be used at the maximum for 1 indoor unit or 1 group.

One is main R/C and the other is sub R/C.

Operating range is different depending on the main or sub R/C.



Set the "Main" and "Sub" as described at Section 8.

R/C operations		Main	Sub	
Run/Stop, Change set temp., Change flap direction, Auto swing, Change fan speed operations				
High power operation, Energy-saving operation		○	○	
Silent mode control		○	×	
Useful functions	Individual flap control	○	×	
	Anti draft setting	○	×	
	Timer	○	○	
	Favorite setting	○	○	
	Weekly timer	○	×	
	Home leave mode	○	×	
	External ventilation	○	○	
Select the language		○	○	
Energy-saving setting		○	×	
Filter	Filter sign reset	○	○	
	Grille Up and Down	○	○*	
User setting	Initial settings		○	○
	Administrator settings	Permission/Prohibition setting	○	×
		Outdoor unit silent mode timer	○	×
		Setting temp. range	○	×
		Temp increment setting	○	×
		Set temp display	○	○
		R/C display setting	○	○
		Change administrator password	○	○
		F1/F2 function setting	○	○

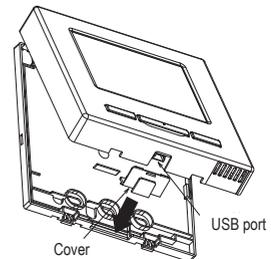
* When two or more IUs are connected to the R/C, you cannot select an IU from the sub R/C. All grilles will move up and down simultaneously.

○ : operable × : not operable

R/C operations		Main	Sub	
Service setting	Installation settings	Installation date	○ ×	
		Company information	○ ○ ×	
		Test run	○ ○ ×	
		Static pressure adjustment	○ ×	
		Change auto-address	○ ×	
		Address setting of main IU	○ ×	
		IU back-up function	○ ×	
		Infrared sensor (motion sensor)/setting	○ ×	
		Operation for Grille Up & Down	○ ○	
		Main/Sub of R/C	○ ○	
R/C function settings	Return air temp	○ ×		
	R/C sensor	○ ×		
	R/C sensor adjustment	○ ×		
	Operation mode	○ ×		
	°C / °F	○ ×		
	Fan speed	○ ×		
	External input	○ ×		
	Upper/lower flap control	○ ×		
	Left/right flap control	○ ×		
	Ventilation setting	○ ×		
Auto-restart	○ ×			
Auto temp setting	○ ×			
Auto fan speed	○ ×			
IU settings		○	×	
Service & Maintenance	IU address	○	○	
	Next service date	○	×	
	Operation data	○	×	
	Error display	Error history	○	○
		Display/erase anomaly data	○	×
	Reset periodical check	○	○	
	Saving IU settings		○	×
	Special settings	Erase IU address	○	×
		CPU reset	○	○
		Restore of default setting	○	×
Touch panel calibration		○	○	
Indoor unit capacity display		○	×	

Advice: Connection to personal computer

It can be set from a personal computer via the USB port (mini-B). Connect after removing the cover for USB port of upper case. Replace the cover after use. Special software is necessary for the connection. For details, view the web site or refer to the engineering data.



Advice: Initializing of password

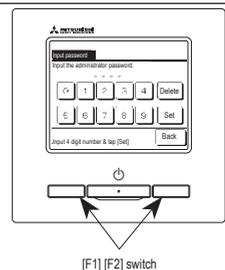
Administrator password (for daily setting items) and service password (for installation, test run and maintenance) are used.

○ The administrator password at factory default is "0000". This setting can be changed (Refer to User's Manual).

If the administrator password is forgotten, it can be initialized by holding down the [F1] and [F2] switches together for five seconds on the administrator password input screen.

○ Service password is "9999", which cannot be changed.

When the administrator password is input, the service password is also accepted.



6 . Power on and initial setting

Set the main and sub R/C units according to the display at the power on.

- Main/Sub setting not performed => (1)
- Main/Sub setting performed => (2)

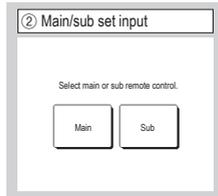
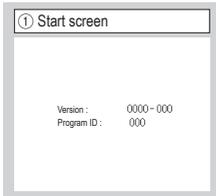
(1) When the main and sub are not yet set,

①⇒② Main/sub input screen is displayed.

When tapping the **Main** or **Sub** button, initial setting starts.

If any wrong button has been tapped by mistake, the setting can be changed after the end of the initializing operation. (10. R/C function setting④)

When using two eco touch remote controllers for one IU or one group, if the first one is set for the **Main**, the second is set for the **Sub** automatically.

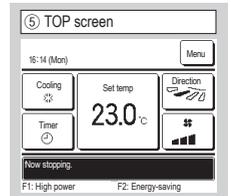
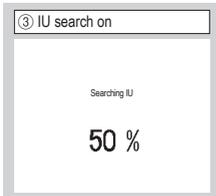


Caution

When only one unit of R/C is used, tap the **Main** button. In the state of initial setting, if either one of buttons ([Main]/[Sub]) is not tapped, it keeps the screen unchanged.

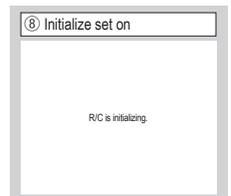
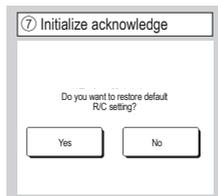
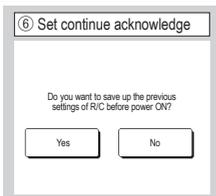
Main The screen changes to ③⇒④⇒⑤.

Sub The screen changes to ①⇒⑧⇒⑤.



The red LED will blink if communication is not established in ten minutes.

(2) When the main and sub are set



Yes The screen changes to ⑧⇒⑤.

No The screen changes to ⑦.

Yes The screen changes to ①⇒②.

No The screen changes to ⑥.

Yes The screen changes to ①⇒②.

No The screen changes to ⑥.

If the screen is not tapped for more than 15 seconds, the **Yes** (Continue) is selected and the display changes to the screen of ⑤.

After the initializing, it returns to the default state.

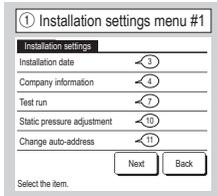
After the initializing, it returns to the default state.

7 . Menu items

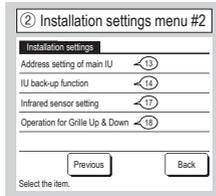
Main menu	
Basic operation	Refer to user's manual
Useful functions	Refer to user's manual
Energy-saving setting	Refer to user's manual
Filter	Refer to user's manual
User setting	Refer to user's manual
Service setting	Installation settings
	Installation date 11
	Company information 11
	Test run 11
	Static pressure adjustment 11
	Change auto-address 11
	Address setting of main IU 12
	IU back-up function 12
	Infrared sensor (motion sensor) setting 12
	Operation for Grille Up & Down 12
	R/C function settings
	Main/Sub of R/C 13
	Return air temp 13
	R/C sensor 13
	R/C sensor adjustment 13
	Operation mode 13
	°C / °F 14
	Fan speed 14
	External input 14
	Upper/lower flap control 14
	Left/right flap control 14
	Ventilation setting 14
	Auto-restart 14
	Auto temp setting 14
	Auto fan speed 14
	IU settings
	Fan speed setting 15
	Filter sign 15
	External input 1 Refer to Installation manual
	External input 1 signal Refer to Installation manual
	External input 2 Refer to Installation manual
	External input 2 signal Refer to Installation manual
	Heating thermo-OFF temp adjustment 15
	Return temperature adjustment 15
	Fan control in cooling thermo-OFF 15
	Fan control in heating thermo-OFF 16
	Anti-frost temp Refer to Installation manual
	Anti-frost control Refer to Installation manual
	Drain pump operation 16
	Keep fan operating after cooling is stopped 16
	Keep fan operating after heating is stopped 16
	Intermittent fan operation in heating 16
	Fan circulator operation 16
	Control pressure adjust 16
	Auto operation mode 17
	Thermo. rule setting 17
	Auto fan speed control 17
	IU overload alarm 17
	External output setting Refer to Installation manual
	Service & Maintenance
	IU address 18
	Next service date 18
	Operation data 18
	Error display 19
	Saving IU settings 19
	Special settings 19
	Indoor unit capacity display 19
Contact company	Contact company Refer to user's manual

8 . Installation settings and test run

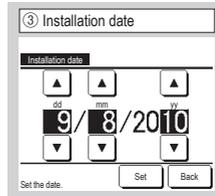
TOP screen ⇒ ⇒ ⇒



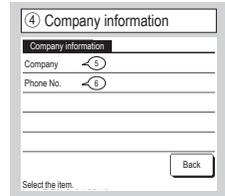
The selected screen is displayed.



The selected screen is displayed.



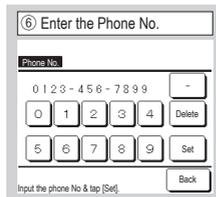
Select the date with buttons, and tap the button.



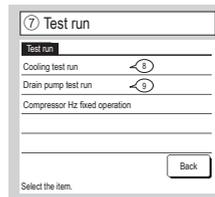
Enter the company information.



Enter the company name using up to 26 one-byte characters and then tap the button. You can enter alphanumeric, Japanese Kana, Kanji, Cyrillic, or Chinese characters.



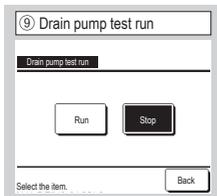
Enter the phone number of the company using up to 13 characters and then tap the button.



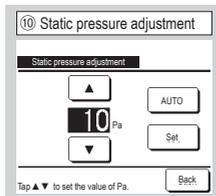
The selected screen is displayed.



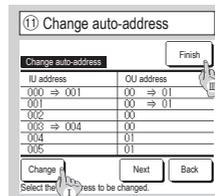
This can be operated while cooling is stopped. When the room temperature is too low to start the cooling test run, it operates for 30 minutes by decreasing the set temperature to 5°C.



Drain pump can be operated independently.

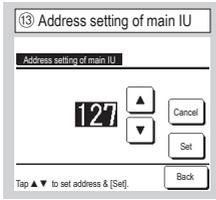


This is operable in case of connecting duct type IU equipped with the external static pressure adjustment function. Select the external static pressure and tap the button.

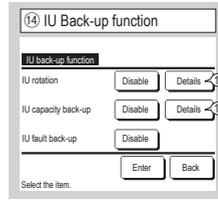


In case of Multi series (KX) models, the IU addresses registered with the auto-address setting method can be changed with this function. This function changes the OU address for each IU and,

- I When an indoor unit is selected and the button is tapped, the display changes to the Change auto-address screen ⑫ .
- II Tap the button to return to the screen ⑪ and display the new address.
- III Tap the button to register the new address.



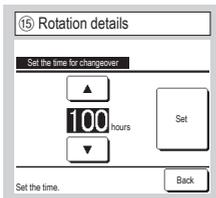
In case of Multi Series (KX) models, it is possible to let indoor units (Sub IUs) follow the operation mode (Heating, cooling) of the indoor unit (Main IU). Set the address of the Main IU to the Sub IUs The Sub IUs to which the Main IU address is set follow the Main IU settings.



In case of 2 sets of indoor units (2 groups) connected to one R/C, it is available to perform back-up operation with them.

1. IU rotation: Operate 2 sets of indoor units alternately at every set time of operation interval.
2. IU capacity back-up: When the temp difference between the set temp and the actual room temp is higher than the set temp diff., 2 sets of indoor units operate.
3. IU fault back-up: If one of the IU has a fault and stops, the other one starts operation.

Select / (tapping changes to) and tap the button to confirm the settings.

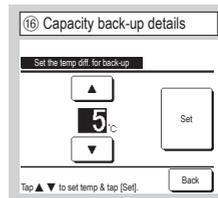


In IU rotation function, the timer to changeover the operation of 2 indoor units is set.

The timer can be set within the range of 10 to 990 hours in increments of ten hours.

After the time is changed, tap for temporary setting.

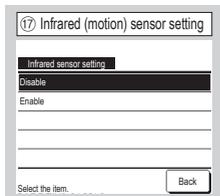
After temporary setting, return to the IU Back-up function screen and tap .



The difference between the setting temperature for a change between one unit and two units for capacity back-up and room temperature is set.

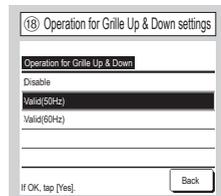
The temperature can be set within the range of 2 to 5 °C in increments of 1 °C.

After the temperature is changed, tap for temporary setting. After temporary setting, return to the IU Back-up function screen and tap .



Select / for the infrared sensor of the indoor unit connected to the R/C.

- For customers who adapt a motion sensor, please proceed the setting shown on the left and enable the indoor unit to be used to detect the activity amounts of persons. When the infrared (motion) sensor is disabled, activity amounts of persons will not be detected and thus the infrared sensor control (power saving and auto-off) will not be performed.
- The infrared (motion) sensor cannot be enabled for the indoor unit older than FDT-VG or FDT-KX-ZE1. When the infrared (motion) sensor setting is tapped, "Invalid request." will be displayed.

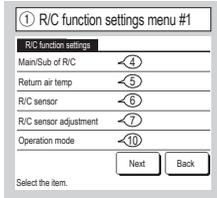


To use the automatic grille up and down panel, tap the power supply frequency of the installation site.

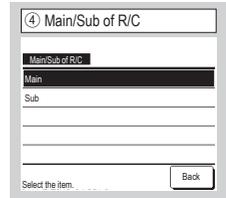
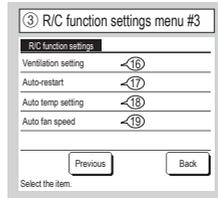
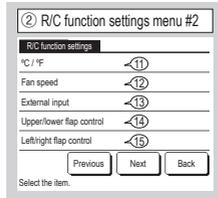
- Customers using the automatic grille up and down panel should configure the settings on the right.

9. R/C function settings Advice: It is valid when unit stops.

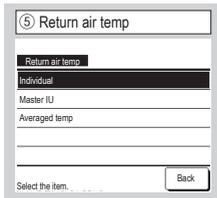
TOP screen Menu ⇒ Service setting ⇒ R/C function settings ⇒ Service password



The selected screen is displayed.

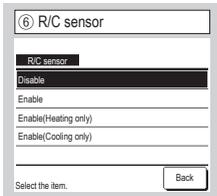


Use this when changing the Main/Sub setting of R/C.



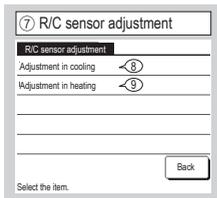
Thermo. rule is applied based on the temperature detected with the return air temp sensor of IU. When plural indoor units are connected to one R/C, the return air temp applied to the thermo. rule can be selected.

- Individual** : Thermo. rule is applied based on the return air temp of each IU. When plural units are connected to one R/C, it is based on the return air temp of the main unit.
- Master IU** : Thermo. rule is applied based on the return air temp of IU having the youngest address out of IUs connected.
If there are several sets of plural units each of which is connected to one R/C, it is based on the IU having the youngest address out of the main units of each plural units.
- Averaged temp** : Thermo. rule is applied based on the average of return air temperatures of IUs connected.



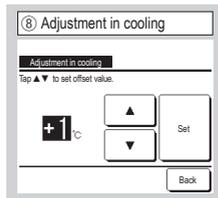
You can change IU main unit return air temperature sensor to the R/C side.

- Disable** The Indoor temp display changes to the temperature measured by the sensor at the main unit.
- Enable** The Indoor temp display changes to the temperature measured by the R/C side sensor.
- Enable(Heating only)** The Indoor temp display changes to the temperature measured by the R/C side sensor during heating only.
- Enable(Cooling only)** The Indoor temp display changes to the temperature measured by the R/C side sensor during cooling only.

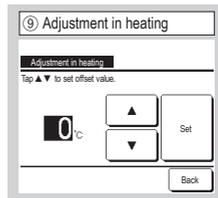


You can adjust the R/C sensor detection temperature.

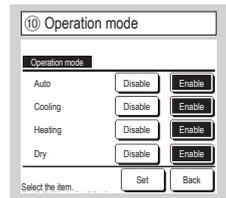
Adjustment in cooling ⇒ ⑧
Adjustment in heating ⇒ ⑨



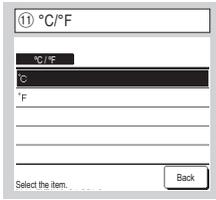
The R/C sensor detection temperature during cooling operation can be corrected. Set the value within the range of -3 to +3.



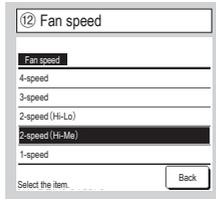
The R/C sensor detection temperature during heating operation can be corrected. Set the value within the range of -3 to +3.



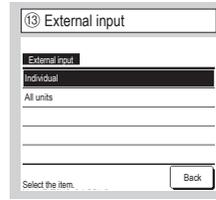
Enable or Disable can be set for each operation mode. If the cooling or heating is disabled, the auto is also disabled.



Select the unit of temperature displayed on the R/C.



Fan speed can be changed to the selected one. It may not be available to select some of fan speeds depending on indoor unit models.



Set the range to apply the external input received through CNT of either one IU to plural indoor units connected in one system

- Individual This is applied only to the IU receiving CNT input.
- All units This is applied to all indoor units connected.



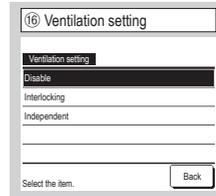
Stop at fixed position The upper/lower flap can be set to stop at one of four positions.

Stop at any position The flap can be set to stop at any position immediately after operating the R/C switch.



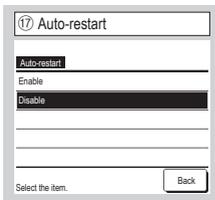
Fixed position stop The left/right flap can be set to stop in eight different patterns.

Stop at any position The flap can be set to stop at any position immediately after operating the R/C switch.



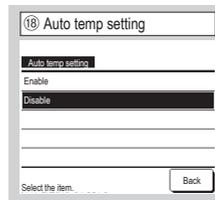
Set this when a ventilation device is connected.

- Disable No ventilation device is connected.
- Interlocking Ventilation is interlocked with the Run/Stop of air conditioner and operate the Ventilation output.
- Independent If the ventilation is selected from the menu, only the ventilation device is operated or stopped independently.

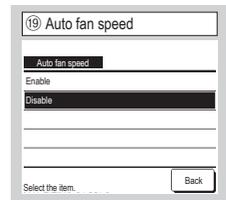


If the unit stops during operation,

- Enable It returns to the state before the power failure as soon as the power supply is restored (After the end of the primary control at the power on).
- Disable It stops after the restoration of power supply.



- Enable Auto can be selected on the room temperature setting screen.
- Disable Auto selection switch will not be displayed on the room temperature setting screen.

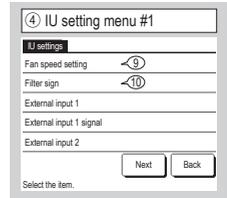
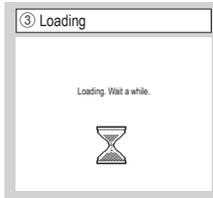
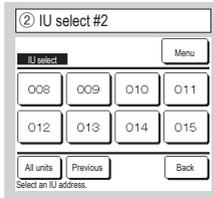
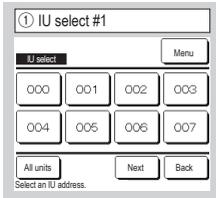


- Enable Auto can be selected on the fan speed setting screen.
- Disable Auto selection switch will not be displayed on the fan speed setting screen.

10 . IU settings

Advice: It is valid when unit stops.

TOP screen ⇒ ⇒ ⇒

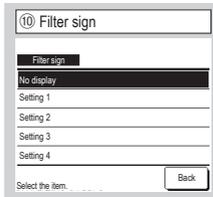
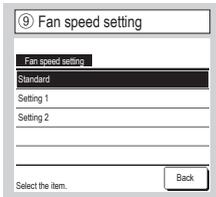
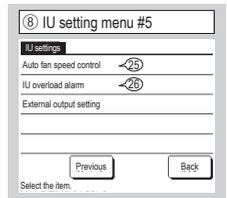
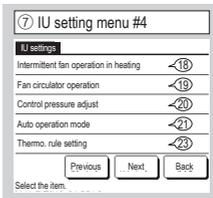
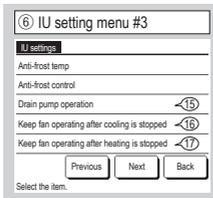
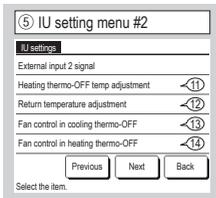


When plural indoor units are connected, they are displayed on the screen.

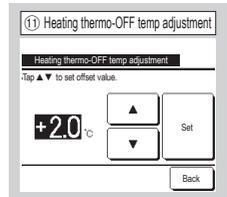
to Individual settings are performed for indoor units.
 The same setting applies to all units.

The display changes to ④ after receiving data from the IU.

The selected screen is displayed.



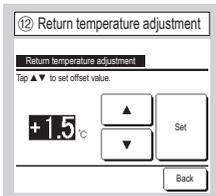
	Standard
No display	None
Setting 1	180Hr
Setting 2	600Hr
Setting 3	1,000Hr
Setting 4	1,000Hr Operation stop



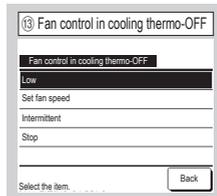
Set the fan speed tap for the IU. Refer to the engineering data for details.

Set the time to display the filter sign.

Adjust the temperature for judging to make thermostat ON or OFF during heating operation.
 Adjustable range is 0°C / +1°C / +2°C / +3°C.



Adjust the main return air temperature sensor detection temperature.
 Adjustable range is -2°C / -1.5°C / -1°C / 0°C / +1°C / +1.5°C / +2°C.



Set the fan speed at the cooling thermo-OFF.

The fan runs at the low speed.
 The fan runs at the same speed as that during the thermo-ON operation.
 Cycles of Lo fan operation for 2 minutes and stop for 5 minutes are repeated.
 The fan is stopped.



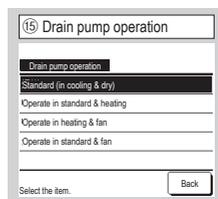
Set the fan speed at the heating thermo-OFF.

Low The fan runs at the low speed.

Set fan speed The fan runs at the same speed as that during the thermo-ON operation.

Intermittent Cycles of Lo fan operation for 2 minutes and stop for 5 minutes are repeated.

Stop The fan is stopped.



Standard (in cooling & dry) Operates in cooling and dry modes.

Operate in standard & heating Operates in cooling, dry and heating modes.

Operate in heating & fan Operates in all modes.

Operate in standard & fan Operates in cooling, dry and fan modes.



Select the residual fan operation time period after stopping and the thermo-OFF in cooling mode.

No setting Residual fan operation not performed.

Setting 1 0.5 hours

Setting 2 2 hours

Setting 3 6 hours

*Residual time may vary.



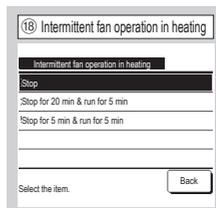
Select the residual fan operation time period after stopping and the thermo-OFF in heating mode.

No setting Residual fan operation not performed.

Setting 1 0.5 hours

Setting 2 2 hours

Setting 3 6 hours

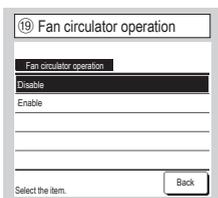


Select the fan control after the residual fan operation following stop and thermo-OFF in heating mode.

Stop Intermittent fan operation is not done.

Stop for 20 min & run for 5 min Check the operating conditions at every 25 min and run the fan for 5 min.

Stop for 5 min & run for 5 min Check the operating conditions at every 10 min and run the fan for 5 min.



Set this when operating the fan as a circulator.

Disable During the fan operation, the fan runs continuously.

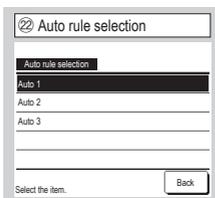
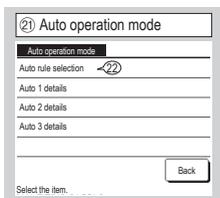
Enable During the fan operation, the fan runs and stops based on the difference between temperatures detected with the R/C sensor and the return air sensor.



Set the control pressure when connecting the outdoor air conditioning unit to the Multi (KX) System.

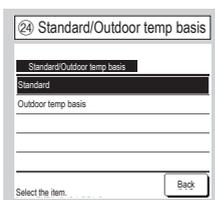
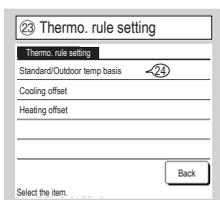
Standard Normal

Type1 When all operating IUs are in this mode, the control pressure value is changed.



- Auto 1** The temp difference between the set temp and the actual room temp switch cooling and heating.
- Auto 2** The temp difference between the set temp and the actual room temp/outdoor temp switch cooling and heating.
- Auto 3** The actual room temp and outdoor temp switch cooling and heating.

The method of switching between cooling and heating in the auto operation mode can be selected from three options. Set the condition for each method.



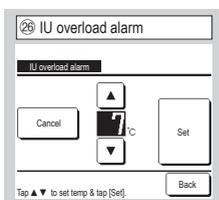
Set the room temperature control, thermostat ON/OFF switching method and condition.

- Standard** The thermostat judges based on the indoor temperature and set temperature.
- Outdoor temp basis** The thermostat judges based on the outdoor temperature and the cooling and heating offset values. The room temperature setting will be disabled.



Set the switching range of the fan tap at the auto fan speed setting.

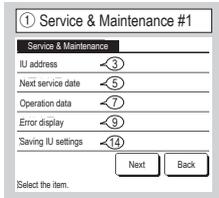
- Auto 1** The fan tap is changed in the range of High ⇒ Medium ⇒ Low.
- Auto 2** The fan tap is changed in the range of Powerful high ⇒ High ⇒ Medium ⇒ Low.



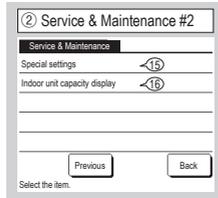
When the room temperature differs to some extent from the setting temperature at 30 minutes after the start of operation, the overload alarm signal is transmitted from the external output (CNT-5).

11 . Service & Maintenance

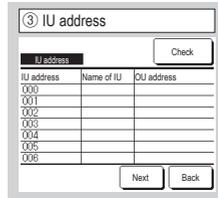
TOP screen ⇒ ⇒ ⇒



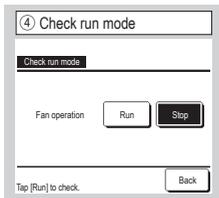
The selected screen is displayed.



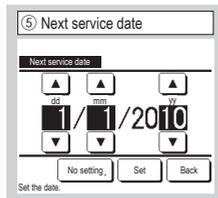
The selected screen is displayed.



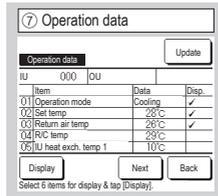
When 8 or more units are connected, further data are displayed on the next page. When the button is tapped after selecting an IU address, the fan of the selected IU can be operated. ⇒ ④



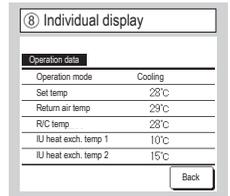
Tap this button to start the fan operation.
 Tap this button to stop the fan operation.



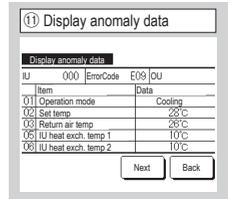
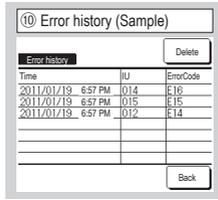
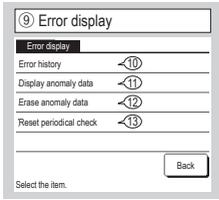
When next service date is entered, messages are displayed at the start/stop of operation on the service month. Contents are reset if the next service date is updated. If the button is tapped, messages are not displayed.



After read the indoor unit data, the operation data at the time of reading are displayed. Tapping the button to update the data. To automatically update data and display, up to six items can be selected. Tapping the button after selecting six items changes the display to ⑧ .



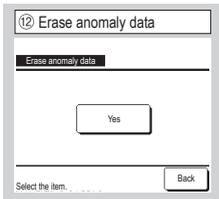
Automatically updates and displays the six selected items.



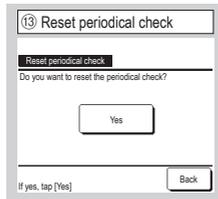
Date and time when error occurred, IU address and Error Code are displayed.

Tap the **Delete** button to delete the error history.

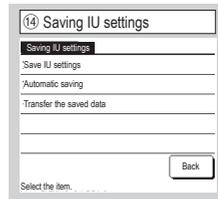
The operation data obtained just before the occurrence of an error are displayed.



The anomaly data is erased.



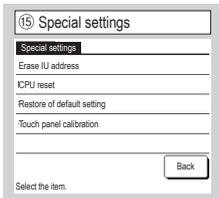
The time count is reset by resetting the periodical check.



Save IU settings All settings of the IUs connected to the R/C are saved in the R/C.

Automatic saving Set the time when the automatic saving is performed everyday.

Transfer the saved data The IU setting data saved in the R/C are transferred to an indoor unit.



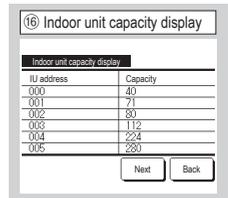
The selected screen is displayed.

Erase IU address Memory of the IU address for multi (KX) unit is erased.

CPU reset Microcomputers of IU and OU connected are reset (State of restoration after power failure).

Restore of default setting Settings on R/C and IU connected are initialized (State of factory default).

Touch panel calibration Use this to correct when the display and the touch position are not matched.



Capacities of IUs connected to the R/C are displayed.

When seven units or more are connected, tap the **Next** button to view all.

These items may not be displayed depending on the combination of IUs and OUs.

eco touch REMOTE CONTROL

QUICK REFERENCE

OPERATION

Refer to the “User's manual” on the following web site for details.

http://www.mhi-mth.co.jp/en/products/detail/air-conditioner_users_manual.html

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	<input type="checkbox"/> Grille Up and Down	32
	<input type="checkbox"/> Individual flap control	34
	<input type="checkbox"/> Anti draft setting	35
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1. 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 unit.

Improper installation made on your own may cause electric shocks, fire or dropping of the unit.



Consult your dealer when moving, disassembling or repairing the unit. Never modify the unit.

Improper handling may result in injury, electric shocks, fire, etc.



Avoid using combustible substances (hair spray, insecticide, etc) near the unit.

Do not use benzene or paint thinner to clean the unit.

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.



This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

 CAUTION



Do not use or let use the unit or remote control as play equipment.

Improper operations could cause ill health or health disorder.



Never disassemble the remote control.

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 remote control with water or liquid.

It could cause electric shocks, fire or break-down.



Do not touch electric parts or operate buttons or screens with wet hands.

It could cause electric shocks, fire or break-down.



Do not dispose the remote control by yourself.

It could destruct the environment. Ask your dealer when it is necessary to dispose the remote control.

Note



The remote control 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 remote control.

It could discolor or break-down the remote control. 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 remote control.

It could cause break-down.

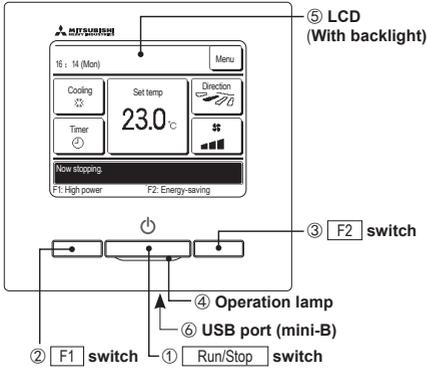


Do not tap the remote control buttons or screen with pointed objects.

It could damage or cause break-down.

2. Functions and menu items of the remote control

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



① Run/Stop switch

One push on the button starts operation and another push stops operation.

② F1 switch ③ F2 switch

This switch starts operation that is set in F1/F2 function setting.

④ Operation lamp

This lamp lights in green (yellow-green) during operation. It changes to red (orange) if any error occurs. Operation lamp luminance can be changed.

⑤ LCD (With backlight)

A tap on the LCD lights the backlight. The backlight turns off automatically if

there is no operation for certain period of time.

Lighting period of the backlight lighting can be changed.

If the backlight is ON setting, when the screen is tapped while the backlight is turned off, the backlight only is turned on. (Operations with switches ①, ② and ③ are excluded.)

⑥ USB port

USB connector (mini-B) allows connecting to a personal computer. For operating methods, refer to the instruction manual attached to the software for personal computer (eco-touch remote control utility software).

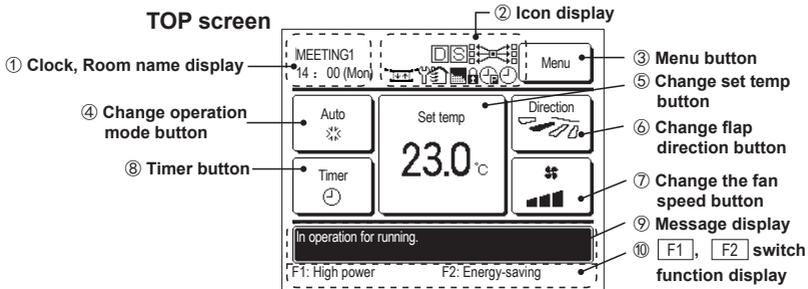
Touch panel system, which is operated by tapping the LCD screen with a finger, is employed for any operations other than the ① Run/Stop, ② F1 ③ F2 switches.

Note

- When connecting to a personal computer, do not connect simultaneously with other USB devices. Please be sure to connect to the computer directly, without going through a hub, etc.

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

*All icons are shown for the sake of explanation.



① Clock, Room name display

Displays the current time and the room name.

② Icon display

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

When the demand control is effective.

When the central control (Optional) is running.

When the periodical inspection is necessary.

When "filter sign" is up.

When the peak-cut timer is set.

When setting is made from the sub R/C.

When Operation for Grille Up & Down is enabled.

During the ventilation operation.

When the Permission/Prohibition setting is made.

When the weekly timer is set.

③ Menu button

When setting or changing other than the following ④-⑧, tap the menu button. Then menu items are displayed, select one and set.

④ Change operation mode button

Displays the operation mode which is selected currently. Tap this button to change the operation mode.

⑤ Change set temp button

Displays the temperature which is set currently. Tap this button to change the set temperature.

⑥ Change flap direction button

Displays the flap direction which is selected currently. When the 3D auto flow operation is enabled, 3D auto display will appear. Tap this button to change the flap direction.

⑦ Change the fan speed button

Displays the fan speed which is selected currently. Tap this button to change the fan speed.

⑧ Timer button

Displays simplified contents of the timer which is set currently. (When two or more timers are set, contents of the timer which will be operated immediately after is displayed.) Tap this button to set the timer.

⑨ Message display

Status of air conditioner operation and messages of the R/C operations etc. are displayed.

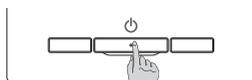
⑩ F1, F2 switch function Display

Displays the function that is set for each F1, F2 switch. The function for these switches can be changed in F1/F2 function setting.

Main menu		
Basic operation	Run	25
	Stop	25
	Change operation mode	25
	Change set temp	25
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	Confirm	40
	Favorite setting	41
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	Home leave mode	Refer to user's manual
	External ventilation	35
	Select the language	42
Energy-saving setting	Sleep timer	29
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	Automatic temp set back	31
	Infrared sensor (motion sensor) control	31
Filter	Filter sign reset	43
	Grille Up & Down	32
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	Clock setting	36
	Date & time display	36
	Summer time	36
	Contrast	37
	Backlight	37
	Controller sound	37
	Operation lamp luminance	37
	Administrator settings	Refer to user's manual
	Permission/Prohibition setting	Refer to user's manual
	Outdoor unit silent mode timer	Refer to user's manual
	Setting temp range	Refer to user's manual
	Temp increment setting	Refer to user's manual
	Set temp display	Refer to user's manual
	R/C display setting	Refer to user's manual
	Change administrator password	Refer to user's manual
	F1/F2 function setting	Refer to user's manual
Service setting		Refer to Instration manual
Contact company		44

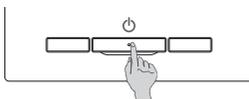
3. Basic Operation

Run

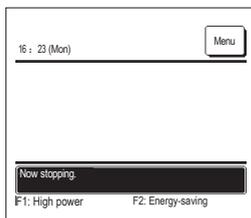


Push the **Run/Stop** switch.
Operation lamp (green) lights and operation starts.

Stop



Press the **Run/Stop** switch while the unit is in operation.
The operation lamp turns off and the operation stops.



When the operation stops, all operation buttons on the screen turn off. When the set lighting time of backlight is counted up, the backlight turns off.

When the screen is tapped, the backlight lights, and all operation buttons are displayed.

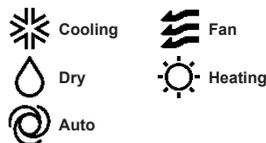
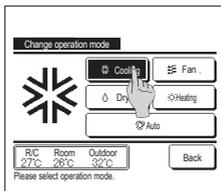
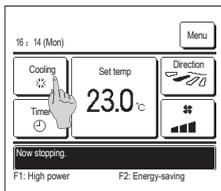
Note

- 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 button is pushed. This is not a fault but it is because the button operation is set to the "Disable".
- The unit starts to operate initially with the following settings after the power on. These settings can be changed as desired.
 - 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
- When an FDK with a left/right flap is connected, left/right flap direction: center, 3D AUTO; disabled
- In the following cases, a message "Operation mode is invalid." is displayed and it changes to the fan operation, because operation modes are not matched.
 - When Heating (including auto heating) is selected for Operation mode while using an OU for cooling only.
 - When Heating is selected for Operation mode while controlling multiple units including units allowed for both cooling and heating and units for cooling only.
 - When different operation modes are selected between IUs which are connected to a OU that do not allow mixed operation of cooling and heating.

Change operation mode

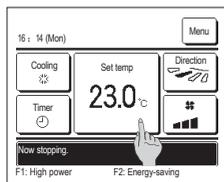


1 Tap the **Change operation mode** button on the TOP screen.

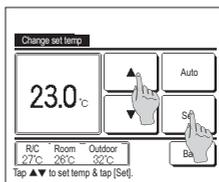
2 When the Change operation mode screen is displayed, tap the button of desired mode.
The operation mode changes, and the display returns to the TOP screen.
Icons displayed have the following meanings.

- 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.

Change set temp



1 Tap the **Change set temp** button on the TOP screen.



2 When the Change set temp screen is displayed, select the temperature as desired with using **▲** **▼** buttons.

3 After selecting the set temp, tap the **Set** button. The display returns to the TOP screen.

■ For allowable temperature setting ranges, refer to the range setting of set temp.

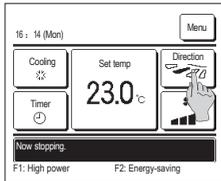
■ Reference set temp

Cooling ... 26 to 28°C Dry ... 24 to 26°C Heating ... 20 to 24°C Fan ... Setting temp is not required.

■ If the **Auto** is selected for the set temp, the set temp display shows "0". Temperature can be adjusted higher or lower with using **▲** **▼** buttons. Note that **Auto** is not displayed and cannot be set when SC-SL2, SC-SL3, or SC-SL4 is connected.

■ If the **Back** button is tapped without tapping the **Set** button, the selected set temp is invalidated and the display returns to the TOP screen.

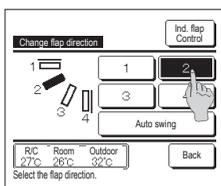
Change flap direction



1 Tap the **Change flap direction** button on the TOP screen.

When an FDK with a left/right flap is not connected: **□2**

When one or more FDKs with a left/right flap are connected: **□3**



2 When the Change flap direction screen is displayed, tap the button of desired flap direction.

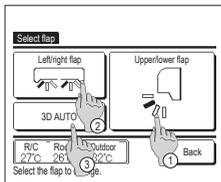
To swing the flap, tap the **Auto swing** button.

To fix the flap position, tap one of **1** to **4** buttons.

After selecting the flap direction,

When an FDK with a left/ right flap is not connected, the display returns to the TOP screen. (**□1**)

When an FDK with a left/right flap is connected, the display returns to the Select flap screen. (**□3**)



3 When one or more FDKs with a left/right flap are connected, the Select flap screen is displayed. Select the desired flap direction.

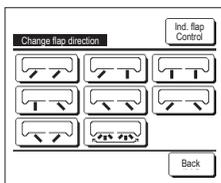
① To change the up/down flap direction, tap the **Upper/lower flap** button. The Change flap direction screen for the up/down flap is displayed. (**□2**)

② To change the left/right flap direction, tap the **Left/right flap** button. The Change flap direction screen for the left/right flap is displayed. (**□4**)

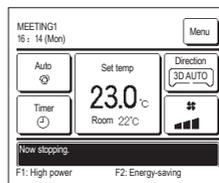
③ The 3D auto flow operation automatically controls the fan speed and flap direction to efficiently condition the air of the entire room.

To switch to the 3D auto flow operation, tap **3D AUTO** to enable the operation.

To disable the 3D auto flow operation, tap the **3D AUTO** again. The flap direction returns to the direction that was set before the 3D auto flow operation was enabled. The 3D auto flow operation will also be disabled when you change the up/down or left/ right flap direction during the 3D auto flow operation.



4 Tap the desired flap direction. After selecting the flap direction, the display returns to the Select flap screen. (**□1**)



5 When the 3D auto flow operation is enabled, "3D AUTO" is displayed on the **Change flap direction** button, as shown on the left.

■ When multiple IUs are connected to the remote control 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," or "In operation for defrosting," is displayed (In case of the heating operation).
Cool air is blown horizontally not to blow directly to human body.
- In a high humidity environment (during cooling operation)

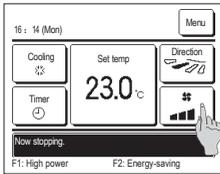
■ When you select Auto swing while the Anti draft setting is enabled, the flap will not swing and be set at flap position **1**.

■ 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 a 3D auto flow operation.

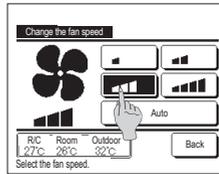
Note

- 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)
- 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 Notes in the Individual flap control section.

Change the fan speed



- 1 Tap the [Change the fan speed] button on the TOP screen.



- 2 When the Change the fan speed screen is displayed, tap the button of desired fan speed. After setting the fan speed, the display returns to 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.

F1/F2 switch operation

You can set any of the following functions to the [F1] and [F2] switches.

The [F1] / [F2] switches act as shortcuts; it can be much easier and faster than starting an operation from the usual [Menu] on the TOP screen.



Changing the function of the [F1] or [F2] switch can be performed with the F1/F2 function setting.

The following functions are set as factory settings.

You may change these settings as desired.

[F1] switch ...High power operation
[F2] switch ...Energy-saving operation

- | | | |
|---|---|--|
| <input type="checkbox"/> High power operation | <input type="checkbox"/> Energy-saving operation | <input type="checkbox"/> Silent mode control |
| <input type="checkbox"/> Home leave mode | <input type="checkbox"/> Favorite setting operation | <input type="checkbox"/> Filter sign reset |

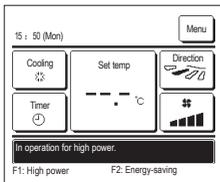
High power operation

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.

High power operation must be set to the [F1] or [F2] switch.

High power operation is set to the [F1] switch as the factory setting.



- 1 Push the [F1] ([F2]) switch to start the high power operation.

- Operation will start when the [F1] ([F2]) switch is pushed, even if [Run/Stop] switch is off.

- High power operation is only allowed when Heating or Cooling is selected for the operation mode.

Message "In operation for high power." is displayed on the R/C screen, and "—, —°C" is displayed on the Set temp button during the high power operation.

- Set temp and change fan speed operations are disabled during high power operation.

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

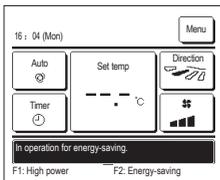
- When you terminate through a [Run/Stop] operation
- When you change the operation mode
- When 15 minutes have elapsed since the high power operation started
- When you terminate the high power operation with the [F1] ([F2]) switch

Energy-saving operation

Use this operation to save energy. 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 temperature, energy can be saved without losing comfort.

Energy-saving operation must be set to the [F1] or [F2] switch.

Energy-saving operation is set to the [F2] switch as the factory setting.



- 1 Push the [F1] ([F2]) switch to start the energy-saving operation.

- Operation will start even if you press the [F1] ([F2]) switch while the unit is stopped.

- Energy-saving operation is only allowed when Heating, Cooling or Auto is selected for the operation mode.

Message "In operation for energy-saving." is displayed on the screen during the energy-saving operation. Set temp is fixed at "28.0°C" in the cooling operation or "22.0°C" in the heating operation. Set temp shows "—, —°C" in the automatic operation mode.

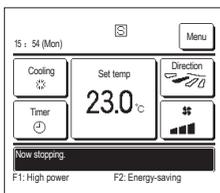
- Set temp cannot be changed during the energy-saving operation. If it is attempted, a message "Invalid request" is displayed on the screen.

- 2 Energy-saving operation is terminated when you perform the following.

- When you terminate through a [Run/Stop] operation
- When you change the operation mode
- When you terminate the energy-saving operation with the [F1] ([F2]) switch

4. Menu operations

Restrictions on the sub R/C



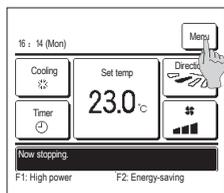
When one IU is controlled with 2 R/Cs, the following settings cannot be made on the sub R/C. It is necessary to use the main R/C.

In case of the sub R/C, the icon is displayed on the R/C screen.

R/C operations		Main	Sub	
Run/Stop, Change set temp, Change flap direction, Auto swing, Change fan speed operations		<input type="radio"/>	<input type="radio"/>	
High power operation, Energy-saving operation		<input type="radio"/>	<input type="radio"/>	
Silent mode control		<input type="radio"/>	<input checked="" type="radio"/>	
Useful functions	Individual flap control	<input type="radio"/>	<input checked="" type="radio"/>	
	Anti draft setting	<input type="radio"/>	<input checked="" type="radio"/>	
	Timer	<input type="radio"/>	<input type="radio"/>	
	Favorite setting	<input type="radio"/>	<input type="radio"/>	
	Weekly timer	<input type="radio"/>	<input checked="" type="radio"/>	
	Home leave mode	<input type="radio"/>	<input checked="" type="radio"/>	
	External ventilation	<input type="radio"/>	<input type="radio"/>	
	Select the language	<input type="radio"/>	<input type="radio"/>	
	Energy-saving setting	<input type="radio"/>	<input checked="" type="radio"/>	
	Filter	Filter sign reset	<input type="radio"/>	<input type="radio"/>
Grille Up and Down		<input type="radio"/>	<input checked="" type="radio"/>	
User setting	Initial settings	<input type="radio"/>	<input type="radio"/>	
	Administrator settings	Permission/Prohibition setting	<input type="radio"/>	<input checked="" type="radio"/>
		Outdoor unit silent mode timer	<input type="radio"/>	<input checked="" type="radio"/>
		Setting temp range	<input type="radio"/>	<input checked="" type="radio"/>
		Temp increment setting	<input type="radio"/>	<input checked="" type="radio"/>
		Set temp display	<input type="radio"/>	<input type="radio"/>
		R/C display setting	<input type="radio"/>	<input type="radio"/>
		Change administrator password	<input type="radio"/>	<input type="radio"/>
		F1/F2 function setting	<input type="radio"/>	<input type="radio"/>

* When two or more IUs are connected to the R/C, you cannot select an IU from the sub R/C. All grilles will move up and down simultaneously.

Operations on menu screens

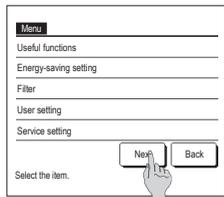


1 Tap the button on the TOP screen.

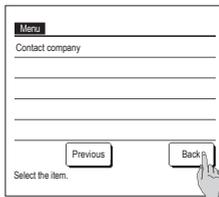
Main menu screen is displayed.

When a desired menu item is tapped, setting screen for each item is displayed.

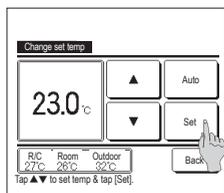
When there are two or more pages, the button is displayed at the leading page and the button is displayed at the last page. The and buttons are displayed on pages in between.



2 When the button is tapped, next main menu screen is displayed.

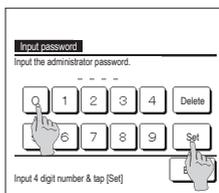


3 When the button is tapped, the display returns to the TOP screen.



4 When the button is displayed on the setting screen for each item, tapping this button confirms the setting.

■ If you tap without tapping the , the settings made will not be applied, and the display returns to the original screen.



5 When an item is referenced to in this manual, the Input password screen is displayed after selecting the menu.

Enter the administrator password (4-digit number) and tap the .

When the password is unknown or wrong, the setting cannot be changed.

Advice

• The administrator password is provided so that these operations and settings are restricted to administrators/managers only (such as the owner of the building).

• For the administrator password at the factory setting, refer to the Installation Manual.

When your administrator password is forgotten, initialize the password by referring to the Installation Manual.

Cautions for each setting screen

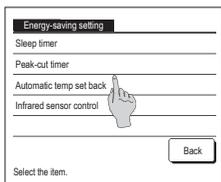
- When returning to the screen mentioned below from each setting screen, operate the following buttons or switches.
 - Return to Main screen ... Menu button
 - Return to the last previous screen ... Back button
 - Return to TOP screen ... Run/Stop switch
- When the Back button is tapped without tapping the Set button on the way of setting, contents of the setting are invalidated, and the display returns to the last previous screen. If the Run/Stop switch is pushed on the way of setting, contents of the setting are invalidated, the setting mode is terminated and the display returns to the TOP screen.
- If no button is operated for approx. 5 minutes on the way of setting each item, the display returns to the TOP screen automatically. Contents of the setting on the way become invalid.
- Message "Invalid request" may be displayed when a button is pushed. This is not a fault but it is because the button is set to the Prohibition.
- It is necessary to stop the air conditioner by pushing the Run/Stop switch before starting the following settings.

If the Set button is tapped on the menu screen while the air conditioner is operating, the message "Invalid request." is displayed.

- Individual flap control
- Anti draft setting
- Grille Up and Down
- Select the language
- Energy-saving setting
- Administrator settings

5. Settings and operations

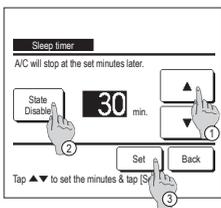
Energy-saving setting [Administrator password]



- 1 Tap the Menu button on the TOP screen and select Energy-saving setting . The Energy-saving setting menu screen is displayed.
- 2 When the Energy-saving setting screen is displayed, select a desired item.
 - Sleep timer
 - Peak-cut timer
 - Automatic temp set back
 - Infrared sensor control

■ Sleep timer

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



- 1 Tap the Menu button on the TOP screen and select Energy-saving setting ⇒ Sleep timer . The Sleep timer screen is displayed.
- 2 Select a desired time with ① ▲ ▼ buttons. Setting range: 30 to 240 minutes, at 10-min intervals.
- 3 Tap the ② State button to switch between "State Enable" and "State Disable".
 - "Enable": operation stops at the set time every time.
 - "Disable": the sleep timer does not operate.

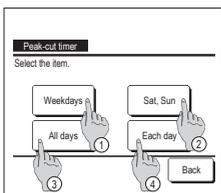
Unless the Sleep timer is used, set at the "State Disable".
- 4 After the setting, tap the ③ Set button. The display returns to the Energy-saving setting menu screen.

■ Peak-cut timer

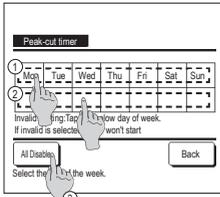
Set the times to start and stop the capacity (upper limit) limiting operation and the peak-cut %.

Advice

- When the peak-cut timer is used, be sure to make the Clock setting in advance.
- The peak-cut timer control may not be performed depending on combination of IU and OU.



- 1 Tap the Menu button on the TOP screen and select Energy-saving setting ⇒ Peak-cut timer . When the setting range selection screen for the peak-cut timer is displayed, select the day of the week to be set.
 - ① Weekdays : Monday - Friday
 - ② Sat. Sun : Saturday, Sunday (□4)
 - ③ All days : Monday - Sunday
 - ④ Each day : Moves to the day of the week setting screen. (□2)

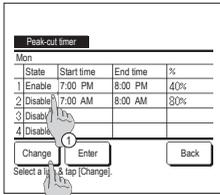


- 2 If a desired day of the week (1) is tapped on the display, contents of current setting for the day are displayed. (□5)
- 3 For the holiday setting, tap the block (2) under a day to switch between (P) (the holiday setting) and "Blank" (reset).

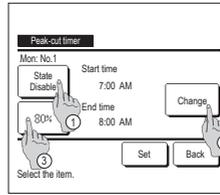
Timer does not operate on the day set as holiday.
Two or more holidays can be set.

■ To enable the timer on the day set as holiday, it is necessary to reset the holiday setting.

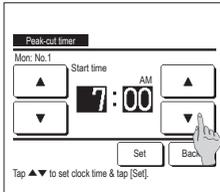
- 4 When tapping (3) "All Disable" button, the timer does not operate on all days of the week.
When the timer is used, be sure not to set "All Disable".



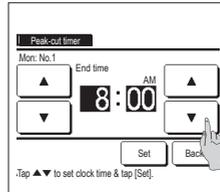
- 5 Screen to check contents of current setting is displayed.
When the contents are changed or new setting is added, select a (1) setting line No. and tap the (2) "Change" button.



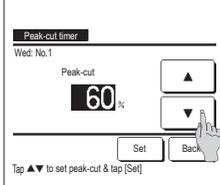
- 6 Detail setting screen for the timer setting contents is displayed.
(1) Tap the [State] button to switch between "State Enable" and "State Disable".
(2) If the [Change] button is tapped, the start time and the end time can be set. (□7)
(3) If the [Peak-cut] button is tapped, the peak-cut % can be set. (□9)



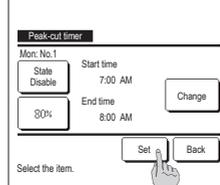
- 7 Set the Start time.
Set the hour and minute with the (▲) and (▼) buttons.
Setting time can be set at 5-min intervals.
Tap the [Set] button after the setting. (□8)



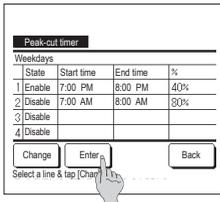
- 8 Set the End time.
Set the hour and minute with the (▲) and (▼) buttons.
End time can be set from 5 minutes after the Start time up to 24:00 at 5-min intervals
Tap the [Set] button after the setting. (□10)



- 9 Set the peak-cut %.
Set the peak-cut % with the (▲) and (▼) buttons.
The peak-cut % can be set at 0%, 40%, 60% or 80%.
The lower the peak-cut % is, the higher the effect of energy-saving becomes.
Tap the [Set] button after the setting. (□10)

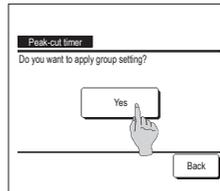


- 10 The setting content check screen (□6) is displayed. If the [Set] button is tapped, the contents are confirmed and a day of the week setting content check screen (□5) is displayed.
11 If the settings are corrected or added further within the same day, repeat the setting. (□5)
■ When contents of the setting are duplicated, the priority is given to the set contents of smaller peak-cut %.



- 12 Display a day of the week setting content check screen. To save the setting, tap the [Enter] button.

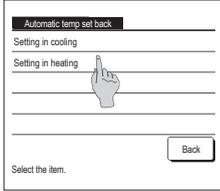
- a) In case of group setting: (1-1) Weekdays, 1-2) Sat, Sun, 1-3) All days) Move to the group setting check screen. (□13)
- b) In case of individual setting: (1-4) Each day) Save the setting and move to a day of the week selection screen (□2)



- 13 Display the group setting acknowledgment screen.
Tap the [Yes] button to save the setting.
The display changes to a day of the week setting check screen after the saving. (□2)
- 14 When making the setting after changing a day of the week, repeat the setting from the step 2.

Automatic temp set back

It returns to the set temperature when the set time is counted up.



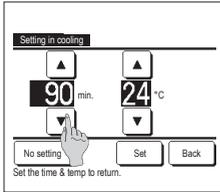
- 1 Tap the **Menu** button on the TOP screen and select **Energy-saving setting** ⇒ **Automatic temp set back**. The Automatic temp set back screen is displayed.

Tap **Setting in cooling** when setting for the cooling operation or **Setting in heating** when setting for the heating operation. The Setting in cooling operation includes the cooling, dry and auto.

The Setting in heating is for the heating operation only.

Setting time range: 20 - 120 min, at 10-min intervals

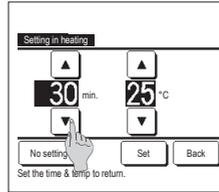
Set temp range: It can be set within the preset temp range set according to the set temp range menu.



- 2 Set desired time and temperature with the **▲** **▼** buttons.

When the **Set** button is tapped, contents of setting are confirmed, and the display returns to the last previous screen.

When the **No setting** button is tapped, "--- min. ---°C" is displayed, and the "Automatic temp set back" is not performed.

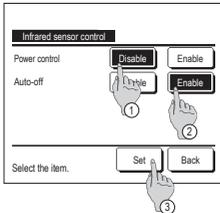


- 3 The same setting method as the Setting in the cooling operation can be applied to the Setting in heating.

Infrared sensor (motion sensor) control (for IUs with motion sensors)

Presence of humans and the amount of motion are detected by a motion sensor to perform various controls.

■ When the R/C is set as the sub R/C, the infrared sensor (motion sensor) control cannot be set.



- 1 Tap the **Menu** button on the TOP screen and select **Energy-saving setting** ⇒ **Infrared sensor control**.

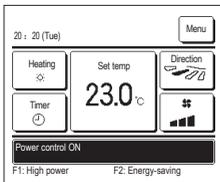
The Infrared sensor control screen and contents of the current settings are displayed.

① Enable/disable power control.

② Enable/disable auto-off.

③ After you set each item, tap the **Set** button.

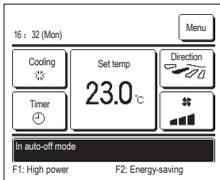
The display returns to the Energy-saving setting menu screen.



When power control is enabled

The amount of human motion is detected by a motion sensor to adjust the Set temp.

During power control, "Power control ON" will be displayed on the message display.



When auto-off is enabled

The unit will enter the "Operation wait" state when an hour has elapsed since the last time a human presence was detected and will be in "Complete stop" state after another 12 hours.

"Operation wait"...The unit stops but will resume operation when human presence is detected.

When the unit is in "Complete stop", "In auto-off mode" will be displayed on the message display.

"Complete stop"...When auto-off is enabled, the unit stops.

The unit will not resume operation even when human presence is detected.

The message "In auto-off mode" will disappear from the message display, and the operation lamp will turn off.

Grille Up and Down (when using automatic grille up and down panel)

⚠ CAUTION



Before you perform any operation, make sure that the suction grille motion range is free of persons and objects.

Contact with the suction grille may result in injury or damage of objects.



Do not touch the suction grille or wires when the suction grille is in motion.

You may get hit by the suction grille or become caught in wires, leading to injury.



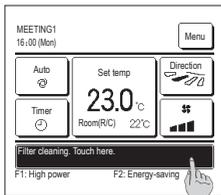
Do not forcibly pull down the suction grille while the unit is stopped.

This may cause damage to the lifting motor or wires.



Do not bend the wires or allow flame (from cigarettes, etc.) to come in close or direct contact with the wires.

This may cause breaking of wires, which can lead to the suction grill or air filter to fall and result in personal injury.



1 The grille up and down operation can be performed by any of the following methods:

Tap the **Menu** button on the TOP screen and select **Filter** ⇒ **Grille Up and Down**.

Set the Switch function to Grille Up and Down and press the **F1** or **F2** switch.

Tap the message display while the message "Filter cleaning. Touch here." is displayed.

■ Depending on how the Permission/Prohibition setting is set, the administrator password input screen may be displayed.

After you perform the above operation, enter the Grille Up and Down mode. The unit in operation will automatically stop.

However, units operated with a central control (optional) will stop when you perform the grille up and down operation (step 3 using **▲** **▼** buttons).

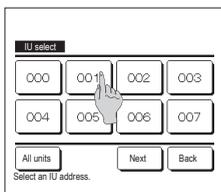
When one IU is connected to the R/C: #P 3

When two or more IUs are connected to the R/C: #P 2

Advice

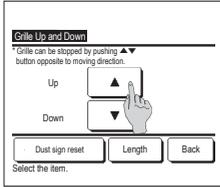
The message "Invalid request" may be displayed when you tap the Grille Up and Down button. This does not indicate a failure; this message is displayed because the automatic grille up and down panel is not used.

If you press the **Run/Stop** switch in the middle of an operation, the Grille Up and Down mode will terminate, and the display returns to the original display.



2 When two or more IUs are connected to the R/C, a list of IUs is displayed. Tap the IU to perform the grille up and down operation.

To make all connected IUs perform the grille up and down operation simultaneously, tap the **All units** button.



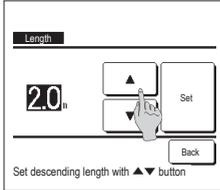
3 When you tap the ▼ button, the suction grille will lower down to the descending length that was set and stops automatically.

To stop the descending motion of the suction grille at any point, tap the ▲ button.

To retract the suction grille, tap the ▲ button. The suction grill will move up, retract, and stop automatically.

To stop the ascending motion of the suction grille at any point, tap the ▼ button.

To set the descending length of the suction grille, tap the Length button (≡ 4).



4 Set the descending length of the suction grille.

The descending length can be set in units of 0.1 m using the ▲ ▼ buttons.

Descending length setting range: 0.1 to 4.0 m.

5 After you set the descending length, tap the Set button.

Note

- When the suction grille is in descending motion, and you operate the unit from another R/C set as main/sub or from an option such as the central console, the unit will start operation (R/C display will remain the same).
- During heating operation, selecting Grille Up and Down may cause the IU fan to continue rotating for approximately 40 seconds.

Advice

- When the R/C is set as the sub R/C, IU unit selection cannot be made. All units will perform the up and down operation simultaneously.
- When the suction grille comes to a stop at its prescribed position, the two wires may sag approximately 8 cm (max), and the suction grille may tilt, but this will be corrected automatically when the grille retracts.
- A loud sound may be heard due to this correction motion at the retraction position, but this does not indicate a failure of the unit.
- When wire sag is detected due to the grille running over an obstacle, etc. the grille may not perform the up and down operation to avoid wires to get tangled. Remove the obstacle, tension the wires, and press the ▲ ▼ buttons again.

Individual flap control

Motion range (upper, lower, left, or right limit positions) of the flap at each blow outlet can be set to a desired range.

■ When the R/C is set as the sub R/C, the individual flap control cannot be set.

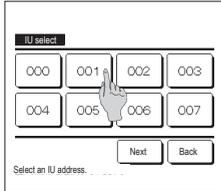
- 1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Individual flap control** or tap the **Change flap direction** button on the TOP screen and select **Ind. flap control**, and then enter the administrator password.

When one IU is connected to the R/C: 3

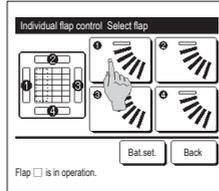
When two or more IUs are connected to the R/C: 2

Advice

- Individual flap control should be set when the unit is stopped.
- When you perform individual flap control while the unit is in operation, the acknowledge screen for unit stop is displayed.



- 2 When two or more IUs are connected to the R/C, a list of IUs is displayed. Tap the IU to be set.



- 3 Select the number of the flap of which the motion range is changed. (4)

■ When there are two or more flaps at the blow outlet, such as the FDT type, the flap at blow outlet No. ① will keep moving while the blow outlet selection screen is displayed. The figure displayed on the screen shows the installed unit viewed from the floor side. Select the flap based on this figure. When you have selected the blow outlet, the flap with the number you selected will move.

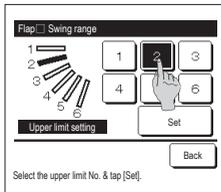
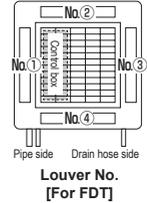
■ You can set all flaps at once by tapping the **Bat.set.** button (except for FDKs with a left/right flap).

■ When there is only one flap at the blow outlet, such as the ceiling suspended type only the flap that can be set will be displayed.

For an FDK with a left/right flap, select the upper/lower flap or left/right flap.

When you select the upper/lower flap (①): 4

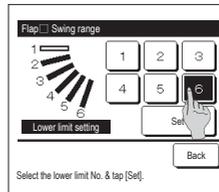
When you select the left/right flap (②): 8



- 4 Select one of the upper limit positions from 1 to 6 for the flap motion range.

After you select the range, tap the

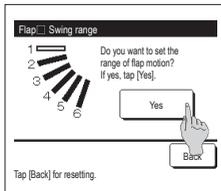
Set button.



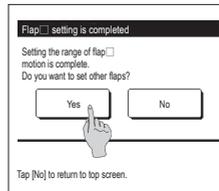
- 5 Select one of the lower limit positions from 1 to 6 for the flap motion range.

The range of motion between the upper and lower limit positions will be displayed in black.

After you select the range, tap the **Set** button.



- 6 Acknowledge screen for the flap motion range is displayed.

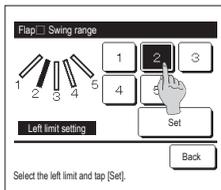


- 7 Acknowledge screen for the completion of setting is displayed.

To change other flap motion ranges, tap the **Yes** button (3).

To terminate the setting, tap the **No** button. The display returns to the TOP screen.

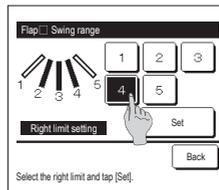
[When left/right flap is selected for an FDK with a left/right flap]



- 8 Select one of the left limit positions from 1 to 5 for the flap motion range.

After you select the range, tap the

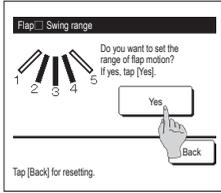
Set button.



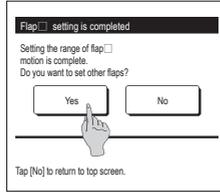
- 9 Select one of the right limit positions from 1 to 5 for the flap motion range.

The range of motion between the left and right limit positions will be displayed in black.

After you select the range, tap the **Set** button.



10 Acknowledge screen for the flap motion range is displayed.



11 Acknowledge screen for the completion of setting is displayed. To change other flap motion ranges, tap the Yes button. (3) To terminate the setting, tap the No button. The display returns to the TOP screen.

Advice

When the unit is installed within 50 cm from a wall, it is recommended that you change the range of the left/right flap motion as follows:

- When installed at the right end of the wall
Left/right flap motion range 1 to 4
- When installed at the left end of the wall
Left/right flap motion range 2 to 5

Installed at the left end Installed at the right end

Anti draft setting (for using panel with anti draft)

You can enable/disable the motion of panel with anti draft for each blow outlet for each operation mode.

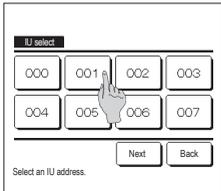
■ When the R/C is set as the sub R/C, the anti draft setting cannot be set.

1 Tap the Menu button on the TOP screen and select Useful functions ⇒ Anti draft setting.

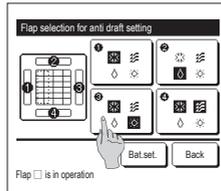
When one IU is connected to the R/C: 3

When two or more IUs are connected to the R/C: 2

■ Depending on how the Permission/Prohibition setting is set, the administrator password input screen may be displayed.



2 When two or more IUs are connected to the R/C, a list of IUs is displayed. Tap the IU to be set.

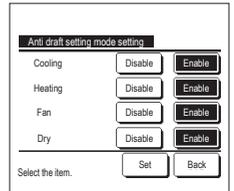


3 Select the blow outlet number to set anti draft.

- The flap at blow outlet No. ① will keep moving while the blow outlet selection screen is displayed. Select the flap based on this figure. When you have selected the blow outlet, the flap with the number you selected will move. The figure displayed on the screen shows the installed unit viewed from the floor side.
- You can set all blow outlets at once by tapping the Bat.set. button. An icon that indicates the operation mode is shown on each blow outlet button. When the anti draft setting is enabled, the icon color will be reversed (for example, in the left figure, blow outlets which have the anti draft setting enabled during cooling are numbers ①, ③, and ④).

Advice

- Anti draft setting should be set while the unit is stopped.
- When you perform Anti draft setting while the unit is in operation, the acknowledge screen for unit stop is displayed.



4 Select enable/disable for each operation mode.

After you make the selection, tap the Set button.

The display returns to the blow outlet selection screen.

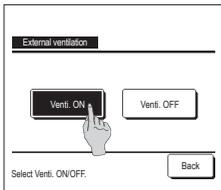
Ventilation operation (when ventilation device is installed)

The ventilation is turned on or off if the ventilation device is installed.

1 Tap the Menu button on the TOP screen and select Useful functions ⇒ External ventilation.

■ The ventilation operation is enabled in case that the External ventilation is set "Independent" (refer to the installation manual for details).

■ In case that the External ventilation is set "Disable" or "Interlocking" the ventilation operation is disable.



2 The External ventilation screen is displayed.

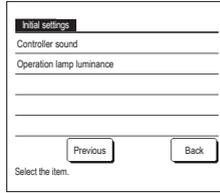
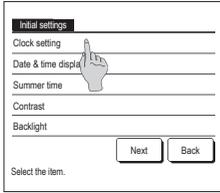
If the Venti. ON button is tapped, the ventilation operation starts.

To stop the ventilation operation, tap the Venti. OFF button.

■ In case that the Ventilation is set "Interlocking", the ventilation operates interlocked with Run/Stop operation of air conditioner (refer to Installation Manual).

Initial settings

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings**.



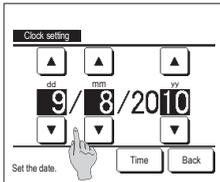
- 2 When the "Initial settings" menu screen is displayed, tap a desired item.

- Clock setting
- Date & time display
- Summer time
- Contrast
- Backlight
- Controller sound
- Operation lamp luminance

■ Clock setting

You can set and correct the current date and time.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Clock setting**.

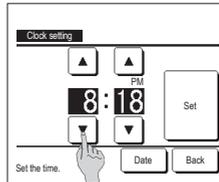


- 2 The "Clock setting" screen is displayed.

Set the "dd/mm/yy" with the **▲** **▼** buttons.

Tap the **Time** button after the setting.

- The "clock setting" is necessary for the following settings.
 - Peak-cut timer
 - Set ON timer by clock, Set OFF timer by clock
 - Weekly timer
 - Outdoor unit silent mode timer
 - Filter sign reset, Setting next cleaning date



- 3 Set the "hour : minute" with the **▲** **▼** buttons on the clock setting screen.

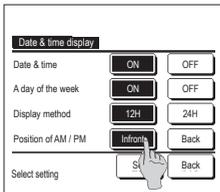
Tap the **Set** button after the setting.

To change "dd/mm/yy" tap the **Date** button.

■ Date & time display

You can set and correct the date & time display.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Date & time display**.



- 2 The Clock setting screen is displayed.

Tap **OFF** / **ON** for the Date and time.

Tap **OFF** / **ON** for A day of the week.

Tap Display method "12H or 24H".

12H Hours ... If it is 3:50 PM, it displays "3:50PM".

24H Hours ... If it is 3:50 PM, it displays "15:50".

Set the position of AM/PM.

Set **Infront** ... "PM3:50" is displayed.

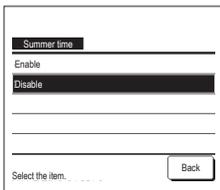
Set **Back** ... "3:50PM" is displayed.

- 3 Tap the **Set** button after the setting.

■ Summer time

You can adjust the current time by one hour.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Summer time**.



- 2 The Summer time setting screen is displayed.

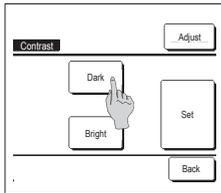
Changing from **Disable** to **Enable** ... (Current time + 1 hr) is displayed.

Changing from **Enable** to **Disable** ... (Current time - 1 hr) is displayed.

■ Contrast

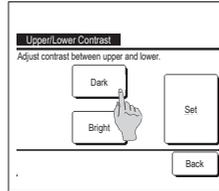
You can adjust the contrast of the LCD.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Contrast**.



- 2 The Contrast Adjustment screen is displayed.
Tap the "Contrast" on the Initial settings menu screen. The contrast on the screen changes by tapping the **Dark** or **Bright** button to select a desired contrast.
- 3 Tap the **Set** button after the setting.

[When the contrast differs between the top and bottom of the screen]

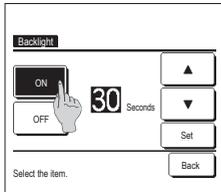


- 4 Tap the **Adjust** button to display the Upper/Lower Contrast screen.
- 5 The contrast of the lower half of the screen changes when you tap the **Dark** / **Bright** button. Adjust the contrast so that the upper and lower halves of the screen match.
- 6 After you make the settings, tap the **Set** button.

■ Backlight

You can turn ON/OFF the backlight and set the lighting period.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Backlight**.

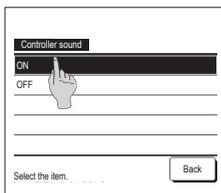


- 2 The Backlight setting screen is displayed.
Tap the ON or OFF buttons for the backlight lighting and the lighting Period (5 - 90 sec, at 5-sec intervals).
ON ... The "Backlight" lights when the LCD is tapped.
If no operation is made for the set time, it turns off automatically.
OFF ... The "backlight" does not light even if the LCD is tapped.
- 3 Tap the **Set** button after the setting.

■ Controller sound

You can set to have the controller sound ON/OFF when the touch panel is operated.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Controller sound**.

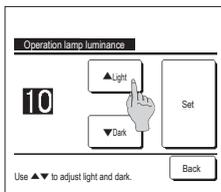


- 2 The Controller sound setting screen is displayed.
Tap ON or OFF for the controller sound.
ON ... When a button on the screen is tapped, a "beep" sounds.
OFF ... There is no beep.

■ Operation lamp luminance

You can adjust the operation lamp luminance.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Operation lamp luminance**.



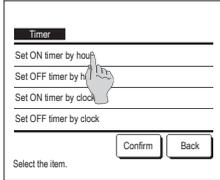
- 2 The Operation lamp luminance adjustment screen is displayed.
You can adjust the luminance of the operation lamp to a desired level by tapping the **▲Light** / **▼Dark** button.
- 3 After you make the settings, tap the **Set** button.

Timer

Advice

The Clock setting must be made when the Set ON timer by clock or Set OFF timer by clock is used.

- 1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Timer**



- 2 Tap a desired item on the Timer menu.

- Set ON timer by hour
- Set OFF timer by hour
- Set ON timer by clock
- Set OFF timer by clock
- Confirm

When the timer is set, the **Confirm** button is displayed.
The button is not displayed unless the timer is set.

Operation of each timer

- 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.

- Set ON timer by hour

When the set time elapses, the air conditioner starts.

Operating conditions at the start of operation can be set.

Operation takes place once at each setting.

- Set OFF timer by hour

When the set time elapses, the air conditioner stops.

Operation takes place once at each setting.

- Set ON timer by clock

The air conditioner starts at the set time.

Operating conditions at the start of operation can be set.

Only one day (Once) operation or operation Everyday can be set.

- Set OFF timer by clock

The air conditioner stops at the set time.

Only one day (Once) operation or operation Everyday can be set

- Weekly timer

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

- Setting of each timer can be combined. Allowable combination settings are as shown below.

Allowable combination setting (○: Allowed, ×: Prohibited)

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

If a prohibited combination setting is made, a message "The combination can't be accepted" is displayed for 3 seconds.

- Priority order of the timer settings (①→③) is as follows.

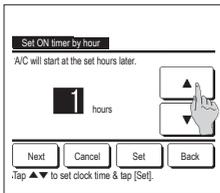
- ① Set OFF timer by hour/clock, weekly OFF timer
- ② Sleep timer
- ③ Set ON timer by hour/clock, weekly ON timer

- On the TOP screen, the timer is displayed from the earliest one out of OFF time of the sleep timer, ON time and OFF time.

Set ON timer by hour

When the set time elapses, the air conditioner starts.

- 1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Timer** ⇒ **Set ON timer by hour**



- 2 The Set ON timer by hour setting screen is displayed.

Select desired hours for the period to start operation by timer with the

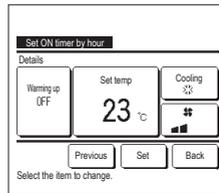
▲▼ buttons.

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

- 3 When operating conditions at the start of operation are set, tap the

Next button. (□4)

When operating conditions are not set, tap the **Set** button.



- 4 Set the following operating conditions.

- ① Warming up ON/OFF (the Main R/C only)

- ② Operation mode ... □ 5

- ③ Set temp ... □ 6

- ④ Fan speed ... □ 7

Warming up setting can be made with the main R/C only.

Set the operation mode before setting the set temperature.

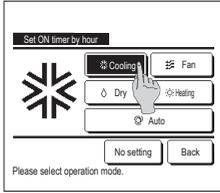
Advice

Warming up

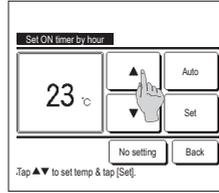
To warm up the room temperature closed to the set temperature at the set start time of the operation, the microcomputer estimates the start time of the operation based on the last warming up operation and starts the operation 5 to 60 minutes earlier.

When the warming up is turned ON, set the timer at one hour earlier or more than the start operation by timer.

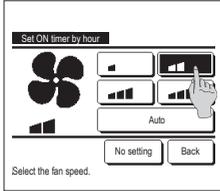
If it is set in less than one hour, a message "Warming up cancelled" is displayed on the screen. (This is used as the Set ON timer by hour and clock.)



- 5 Tap a desired operation mode.
If the [No setting] button is tapped, it starts operation at the last action. (□4)



- 6 Select a desired temperature (at 1°C intervals) with the [▲] [▼] buttons. Or tap the [Auto] button and select the auto temp setting.
Tap the [Set] button after the adjustment. (□4)
When the [No setting] button is tapped, "--°C" is displayed, and it starts operation at the last setting temperature.



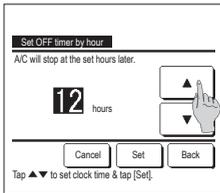
- 7 Tap a desired fan speed.
If the [No setting] button is tapped, it operates at the last action. (□4)

- 8 After setting the desired contents at the screen of the step 4 on the previous page, tap the [Set] button.
Operation will start at set hours later.

■Set OFF timer by hour

When the set time elapses, the air conditioner stops.

- 1 Tap the [Menu] button on the TOP screen and select [Useful functions] ⇒ [Timer] ⇒ [Set OFF timer by hour].

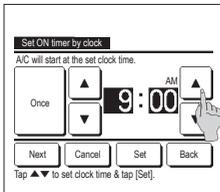


- 2 The Set OFF timer by hour setting screen is displayed.
Select desired hours to stop operation with the [▲] [▼] buttons.
Range of setting time: 1 to 12 hours (at 1-hr intervals)
3 Tap the [Set] button after the setting.

■Set ON timer by clock

Starts the operation of the unit at the set clock time.

- 1 Tap the [Menu] button on the TOP screen and select [Useful functions] ⇒ [Timer] ⇒ [Set ON timer by clock].

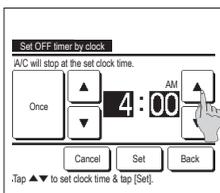


- 2 The Set OFF timer by hour setting screen is displayed.
Select a desired time to start operation (5-min intervals) with the [▲] [▼] buttons.
3 When operating conditions at the start of operation are set, tap the [Next] button to set operation conditions.
The operation conditions can be set the same way as the Set ON timer by hour settings.
If operating conditions are not set, tap the [Set] button.
The Set ON timer by clock can be operated one day (Once) or everyday.
If it is operated everyday, tap the [Once] / [Everyday] button to change the display to "Everyday".

■Set OFF timer by clock

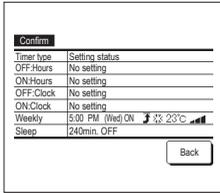
Stops the operation of the unit at the set clock time.

- 1 Tap the [Menu] button on the TOP screen and select [Useful functions] ⇒ [Timer] ⇒ [Set OFF timer by clock].



- 2 The Set OFF timer by clock setting screen is displayed.
Select a desired time to stop operation (5-min intervals) with the [▲] [▼] buttons.
3 Tap the [Set] button after the setting.
The Set OFF timer by clock can be operated one day (Once) or everyday.
If it is operated everyday, tap the [Once] / [Everyday] button to change the display to "Everyday".

Confirm



1 When you tap the **Confirm** button on the Timer menu screen, the contents of the current timer settings are displayed.

■ When the warming up is set, " " is displayed in front of the operation mode on confirmation screen.

Weekly timer

You can set four on timer and off timer operations for each day of the week.

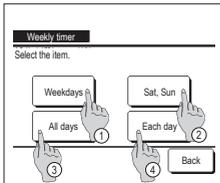
Advice

- The Clock setting must be made when the weekly timer is used.
- The weekly timer can be set from the main R/C only.

1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Weekly timer**.

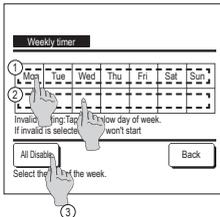
Enter the administrator password if the administrator password input screen is displayed.

■ There are cases that the Input password screen is displayed by the Permission/Prohibition setting.



2 When the screen to select the setting range, select a day of the week to be set.

- ① Weekdays : Monday - Friday
- ② Sat. Sun : Saturday, Sunday
- ③ All days : Monday - Sunday
- ④ Each day : Moves to the day of the week setting screen. (□3)



3 When a desired day of the week ① is tapped on the display, contents of current setting for the day are displayed. (□5)

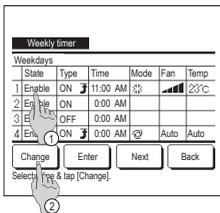
4 For the holiday setting, tap the block ② under the day to switch between " " (the holiday setting) and "Blank" (reset).
Timer does not operate on the day set as holiday.

Two or more holidays can be set.

■ To enable the timer on the day set as holiday, it is necessary to reset the holiday setting.

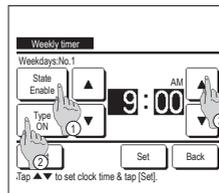
When tapping ③ "All Disable" button, the timer does not operate on all days of the week.

When the timer is used, be sure not to set "All Disable".



5 Screen to check contents of current setting is displayed.

When the contents are changed or new setting is added, select a ① setting line No. and tap the ② **Change** button.



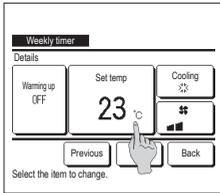
6 Detail setting screen for the timer setting contents is displayed.

① Tap the **State** button to switch between "State Enable" and "State Disable".

② Tap the **Type** button to switch between the "OFF timer" and the "ON timer".

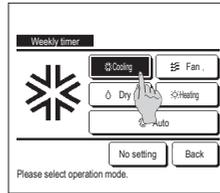
③ Select a desired time (at 5-min intervals) with the buttons.

④ In case of "ON timer" when the **Next** button is tapped, operating conditions at the start of operation can be set. (□7)

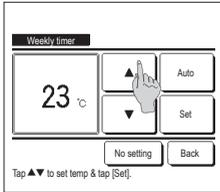


7 Set the following operating conditions.

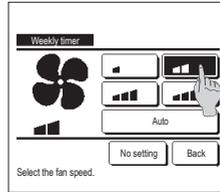
- ① Warming up ON/OFF
(Operation starts 5 to 60 minutes earlier in order to warm up the room temperature closed to the set temp at the set start time of operation.)
 - ② Operation mode ...□8
 - ③ Set temp ...□9
 - ④ Fan speed ...□1 0
- Set the operation mode before setting the set temperature.



8 Tap a desired operation mode.
When the button is tapped, it operates with the same operation mode at the last action. (□7)

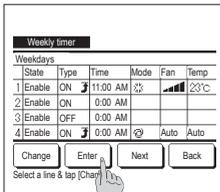


9 Select a desired temperature (at 1°C intervals) with the buttons. Or tap the button to select the Auto temp setting.
Tap the button after the selection. (□7)
When the button is tapped, "--°C" is displayed, and it starts operation at the last setting temperature.



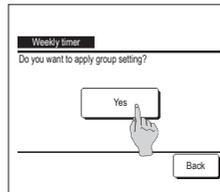
10 Tap a desired fan speed.
When the button is tapped, starts operation at the last fan speed. (□7)

11 After setting desired contents at the screen of 7, tap the button.



12 Display the setting contents check screen. To register the setting, tap the button.

- (1) In case of group setting (2-① Weekdays, 2-②Sat/Sun, 2-③All days setting), move to the group setting screen. (□4 3)
- (2) In case of the individual setting (2-④Each day setting), save the setting and move to a day of the week selection screen. (□3)



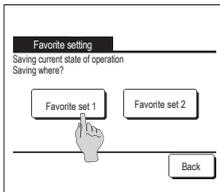
13 Display the group setting acknowledge screen. Tap the button and save the setting.
The display changes to a day of the week setting check screen after saving. (□3)
When making the setting after changing a day of the week, repeat the setting from the step 3.

Registering favorite settings

Operation mode, set temp, fan speed, fan direction can be registered as Favorite set 1 and Favorite set 2.

Allocating these settings to the and switches allows you to perform operations with these registered settings with a single tap of the button.

Refer to the F1/F2 function setting on how to set the and switches.



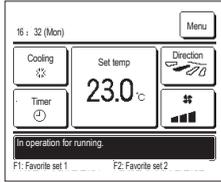
- 1 On the TOP screen, set the desired operation mode, set temp, fan speed, and flap direction.
Tap the button on the TOP screen and select ⇒ .
The administrator password input screen is displayed.
Enter the administrator password.
■ You cannot register the Favorite settings during high power and energy-saving operations.
- 2 The save location selection screen for favorite settings is displayed.
Select the save location.
If there is any data that was previously saved, that data will be overwritten.

Favorite setting operation

You can start an operation with the operation mode, set temp, fan speed, flap direction registered to Favorite set 1 and Favorite set 2.

Settings for the operation mode, set temp, fan speed, flap direction can be registered from Favorite setting on the menu.

Favorite setting operation must be set to the **[F1]** or **[F2]** switch.



- When you press the **[F1]** (**[F2]**) switch, the operation mode, set temp, fan speed, flap direction registered to Favorite set 1 or Favorite set 2 will be enabled.

- Operation will start even if you press the **[F1]** (**[F2]**) switch while the unit is stopped.

- You can change the operation mode, set temp, fan speed, flap direction after the operation has started with the favorite setting operation.

- Following power on, the unit starts to operate initially with the following settings for both Favorite set 1 and Favorite set 2.

Operation mode ...Cooling
 Set temp ...28°C
 Fan speed ...3-speed
 Flap direction ...Position 2
 *When an FDK with a left/right flap is connected
 Left/right flap direction ...Center
 3D AUTO ...Disabled

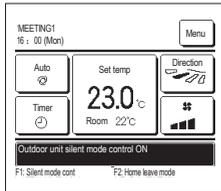
- When Change set temp, Change operation mode, Change flap direction, Change fan speed are restricted by the Permission/Prohibition setting, restricted items will not be reflected to the favorite setting operation.

Silent mode control

The OU is controlled with priority on quietness. You can start/stop the silent mode control with a single tap of a button. Silent mode control must be set to the **[F1]** or **[F2]** switch. Use the Outdoor unit silent mode timer to set the start and end time.

- When you press the **[F1]** (**[F2]**) switch, the administrator password input screen is displayed.

After you enter the password, the silent mode control will start.



- During silent mode control, "Outdoor unit silent mode control ON" will be displayed on the message display.

- When you press the **[F1]** (**[F2]**) switch during silent mode control, the display changes to the administrator password input screen. After you enter the password, the silent mode control will terminate.

- Silent mode control will not be disabled even if you press the **[Run/Stop]** switch. Terminate the control with the **[F1]** (**[F2]**) switch.

- This operation is to select enable/disable of silent mode control. You cannot start the operation with the **[F1]** (**[F2]**) switches.

- Start the operation with the **[Run/Stop]** switch.

- When the sub R/C is set, the silent mode control cannot be used.

- During silent mode control, operation with maximum capacity is not allowed.

Select the language

Select the language to be displayed on the R/C.

- Tap the **[Menu]** button on the TOP screen and select **[Useful functions]** ⇒ **[Select the language]**.

- Depending on how the Permission/Prohibition setting is set, the administrator password input screen may be displayed.



- The menu for select the language is displayed.

Select the language to be displayed on the R/C and tap the **[Set]** button.

You can select from the following languages:

English/German/French/Spanish/Italian/

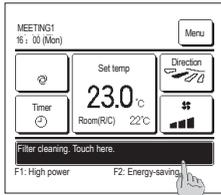
Dutch/Turkish/Portugal/Russian/

Polish/Japanese/Chinese

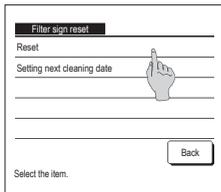
6. Maintenance and After-sale service

Filter sign reset

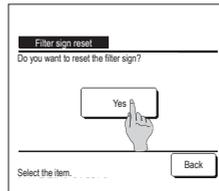
In order to announce the time for cleaning of the air filter, the message of "Filter cleaning. Touch here." is displayed when the cumulative operation time of the IU reaches the preset time. After you clean the filter, you must reset the operation time.



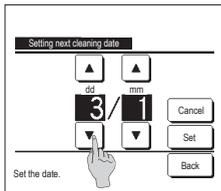
- 1 Tap the message display on the TOP screen.
You can also perform filter sign reset from the menu before the message "Filter cleaning. Touch here." is displayed. Tap the **Menu** button on the TOP screen and select **Filter** ⇒ **Filter sign reset**. You can also use the **F1** and **F2** switches to perform this operation. Set the filter sign reset to the **F1** (**F2**) switch using the Switch function to perform this operation.



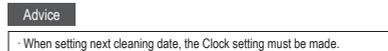
- 2 The filter sign reset menu screen is displayed. To reset the filter sign, tap **Reset**. (□3)
To set next cleaning date, tap **Setting next cleaning date**. (□4)



- 3 Acknowledge screen for the Filter sign reset screen is displayed. Tap the **Yes** button. If you do not want to reset, tap the **Back** button.



- 4 The Setting next cleaning date screen is displayed. Select a desired date with the **▲** **▼** buttons and tap the **Set** button. The message of "Filter cleaning. Touch here." will be displayed on the set date.



Maintenance of unit and LCD

- Wipe the surface of LCD and main body of the remote control with a dry cloth when cleaning is required.
- If the dirt on the surface cannot be removed, soak the cloth in neutral detergent diluted with water, squeeze the cloth tightly, and clean the surface. Wipe the surface with a dry cloth then.

Note

Do not use any paint thinner, organic solvent, or strong acid.

⚠ Warning



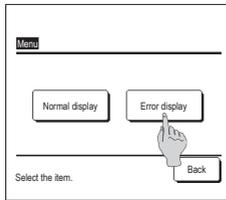
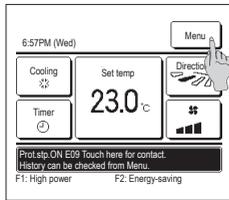
Do not use flammable materials (e.g. hairspray or insecticide) near the unit.

Do not clean the unit with benzene or paint thinner.

It could cause crack damage to the unit, electric shocks, or fire.

Contact company & Error display

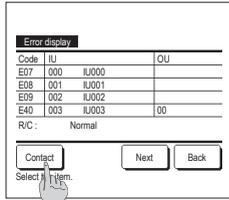
If any error occurs on the air conditioner, the "Unit protection stop" is indicated on the message display. Take the following measures, stop the operation and consult your dealer.



1 The "Unit protection stop" is displayed on the message display.

Tap the button.

When the and button is displayed, tap the button.



2 Contents of error are displayed.

After checking the error contents

(Code), tap the button.

Or tap the button on the previous screen and select the "Contact company" on the menu screen and tap it.



3 Company information (Name and phone No. of contact) is displayed.

This is displayed when it has been preset by your dealer.

Notice of inspection date

If the next service date is set on the Service & Maintenance menu by your dealer, the following screen is displayed for 5 seconds at the start of operation and for 20 seconds from the end of operation on the beginning of the month which includes the set date.

When this screen is displayed, contact your dealer.



When the period of use exceeds 10 years, the screen shown at left is displayed.

When this screen is displayed, contact your dealer.

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.



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