eco touch REMOTE CONTROL RC-EX1 INSTALLATION MANUAL





Contents

1. Safety Precautions	.2
2. Accessories & Prepare on site	.4
3. Remote control installation procedure Determine where to install the remote control Installation procedure Main/Sub setting when more than one remote controls are used	4 5
4. Functions and menu items of Remote control	.9
5. The indication when power source is supplied	13
6. Installation settings	15
7. R/C function settings	20
8. IU settings	26
9. Service & Maintenance	38
10. Select the Language	16

1. Safety Precautions

This installation manual describes the installation methods and precautions related to the remote control. Use this manual together with the user's manuals for the indoor unit, outdoor unit and other optional equipment. Please read this manual carefully before starting the installation work to install the unit properly.

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.

ARNING Failure to follow these instructions properly may result in serious consequences su death, severe injury, etc	
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, the "Installation Manual" should be given to a new owner.

Ask a professional contractor to carry out installation work according to the installation manual. Improper installation work may result in electric shocks, fire or break-down.

Shut OFF the main power supply before starting electrical work.

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

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.

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.

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.

▲ CAUTION

Do not install the remote control at following places.

It could cause break-down or deformation of remote control.

- (1) Where it is exposed to direct sunlight
- (2) Near the equipment to generate heat
- (3) Where the surface is not flat

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

When the upper case is removed, put it in a packing box or packing bag to protect internal PCBs or other parts from dust, moisture, etc.

2. Accessories & Prepare on site

Accessories

R/C main unit, wood screw (ø3.5 x 16) 2 pcs User's Manual, Installation Manual

Parts procured at site

Item name	Q'ty	Remark
Switch box For 1 piece or 2 pieces (JIS C8340 or equivalent)	1	These are not required when installing
Thin wall steel pipe for electric appliance (JIS C8305 or equivalent)	As required	directly on a wall.
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 mm^2 . 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
< 300 m	0.75 mm ² x 2-core
< 400 m	1.25 mm ² x 2-core
< 600 m	2.0 mm ² x 2-core

3. Remote control installation procedure

Determine where to install the remote control

Installation	"Using a switch box"
	"Installed directly on a wall"
Wiring direction	"Backward"
	"Upper center", "Upper left"

Cautions for selecting installation place

- (1) Installation surface must be flat and sufficiently strong. R/C case must not be deformed.
- (2) Where the R/C can detect room temperatures accurately. This is a must when detecting room temperatures with the temperature sensor of R/C.
 - \cdot Install the R/C where it can detect the average temperature in the room.
 - \cdot Install the R/C separated from a heat source sufficiently.
 - \cdot Install the R/C where it will not be influenced by the turbulence of air when the door is opened or closed.

Select a place where the R/C is not exposed to direct sunlight or blown by winds from the air conditioner or temperatures on the wall surface will not deviate largely from actual room temperature.



Request

Be sure not to install R/C at a place where temperatures around the installation surface of R/C may differ largely from actual room temperature.

Difference between detected temperature and actual room temperature could cause troubles. The correction for detected temperature by the R/C cannot offset such temperature difference because it corrects the detected temperatures itself.

Request

Do not install the R/C at a place where it is exposed to direct sunlight or where surrounding air temperature exceeds 40° C or drops below 0° C.

It could cause discoloration, deformation, malfunction or breakdown.

Installation procedure





- ① 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.

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

- 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.
- In case of embedding wiring (When the wiring is retrieved "Backward")
- ③ Embed the switch box and the R/C wires beforehand.

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



Sensor USB port Terminal Block



PCB side (Viewed from rear)









Wiring hole on bottom case

Cut out the thin wall part at the screw mounting section with a knife or the like before tightening

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- (5) When fixing the bottom case diagonally at 2 places, cut out the thin wall section on the case.
- 6 Fix wires such that the wires will run around the terminal screws on the top case of R/C.





(When the wiring is taken out from the "upper center" or "upper left" of R/C) In case of exposing wiring

③ Cut out the thin wall sections on the cases for the size of wire.



If the hole is cut too large, moisture, dust or insects may enter. Seal gaps with putty or the like.

- ④ Fix the bottom R/C case on a flat surface with wood screws.
- ⑤ In case of the upper center, pass the wiring behind the bottom case. (Hatched section)
- ⁽⁶⁾ Fix wires such that the wires will run around the terminal screw of the top case of R/C.
- ⑦ Install the top case with care not to pinch wires of R/C.





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

Main-Sub setting for use of two or more R/Cs

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 7.

R/C function	Main	Sub
Run/Stop, setting temperature, fan speed and flap direction operations	\bigcirc	\bigcirc
High power and energy-saving operations	\bigcirc	0
Energy-saving setting	0	—
R/C sensor	\bigcirc	—
Test run menu operation	0	—
Room temperature range setting	0	_
Indoor unit settings	\bigcirc	—
Individual flap control	0	—
Operation data display	0	_
Error history display	0	0



Note: 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. If dust, insect, etc. enters, it could cause electric



shocks or breakdown.

Special software is necessary for the connection. For details, view the web site or refer to the engineering data.

Do not connect to a personal computer without using the special software. Do not connect the personal computer to the USB

simultaneously with other USB devices. It could cause malfunction or breakdown of R/C or personal computer.



Note: 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). When the administrator password is forgotten, it can be initialized, if the [Highpower] and the [Energy-saving] buttons are pushed simultaneously for 5 seconds on the administrator password input screen.



O Service password is "9999", which cannot be changed. When the administrator password is input, the service password is also accepted.

Note: Combination of R/C and indoor unit

(1) It can be used as the combination of Main and Sub with RC-E3 to -E5 type of wireless R/C (optional part).

(2) It can be combined with FD-V or FD-KX E6 type and later types of indoor units

(3) In cases of combination with FD-V or FD-KX E6 type unit, there are some controlling items which cannot be used. If operating such items, the message "Invalid request" is displayed.

4. Functions and menu items of Remote control

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



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) High power and (3) Energy-saving switches.

 \bigcirc \bigcirc switch

One push on the button starts operation and another push stops operation. (\bigstar)

2 Switch

Pushing this button starts the high-power operation. (\bigstar)

Pushing this button starts the energy-saving operation. (\bigstar)

(4) Operation lamp

This lamp lights in green (yellow-green) during operation. It changes to red if any error occurs.

(5) LCD (With backlight)

A touch on the LCD lights the backlight.

The backlight turns off automatically if there is no operation for certain period of time.

Duration of the backlight lighting can be changed. (\bigstar)

When the backlight is setting ON, if the screen is tapped while the backlight is turned off, the backlight only is turned on. (Operations of 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 User's manual attached to the software for personal computer (Utility software of Eco-touch remote control RC-EX1)

Request

• 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.

★ See User's manual for details.

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

* All icons are shown for explanation.



1) Clock, R/C name display

Displays the current time (\bigstar) and the name of R/C (★)

(2) Icon display

Each icon is displayed when one of following settinas is aoina on.

IDI timer is set.

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When the peak-cut When setting is made from the sub R/C. (★)

When the central control (Optional) is running.

During the ventilation

(★)

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When "filter sign" is up. (★)

When the periodical

inspection is necessary.

(★)

operation

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A When the Permission/ Prohibition setting is made. (★)

When the weekly timer is set. (★)

-

When the paek-cut timer is set. (★)

(3) Menu button

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

(4) Change operation mode button (\bigstar)

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

(5) Change set temp button (\bigstar)

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

(6) Flap direction button (\bigstar)

Displays the flap direction which is selected currently. Tap this button to change the flap direction.

(7) Fan speed change button (\bigstar)

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

(8) Timer button (\bigstar)

Displays simplified contents of the timer which is set currently.

(When two or more timers are set, a content of the timer which will be operated immediately after is displayed.)

Tap this button to set the timer.

(9) Message display

Operation status of air conditioner and messages related to R/C operations, etc, are displayed.

★ See User's manual for details.

Menu item

Main menu

Basic operation		~
	- Run/Stop	
	- Change operation mode	
	- Change set temp	
	- Change flap direction	
	- Change fan speed	
	- High power operation	
	Energy-saving operation	
Energy-saving setting		
	- Sleep timer	
	- Peak-cut timer	
	- Automatic temp set back	
Individual flap control	·····	
Ventilation		
Initial setting		
	- Clock setting	
	- Date & time display	
	- Summer time	
	- Contrast	Please refer to
	- Backlight	User's manual
	- Controller sound	
Timer		
	- Set ON timer by hour	
	- Set OFF timer by hour	
	- Set ON timer by clock	
	- Set OFF timer by clock	
	- Confirm	
Weekly timer		
Home leave mode		
Administrator settings		
	- Permission/prohibition setting	
	- Silent mode timer	
	- Setting temp range	
	- Temp increment setting	
	- R/C display setting	
	- Change administrator password	
	- Change set temp display	
Filter sign reset		J

 (\$)	Installation settings
 Installation date	
Company information	
— Test run	
 Static pressure adjustment	
— Change auto-address	
Address setting of main IU	
— IU back-up function	
	R/C settings (⊘)
— Main/Sub of R/C	h/C settings (\/)
Return air temp	
R/C sensor R/C sensor	
R/C sensor adjustment	
— Operation mode	
— 67 F	
•	
External input Vontilation patting	
Ventilation setting Flap control	
•	
Auto-restart	
Auto temp setting Auto fan speed	
	IU settings (🔿)
— High ceiling	
— Filter sign	
— External input 1	
— External input 1 signal	
— External input 2	
— External input 2 signal	
— Heating thermo-OFF temp adjustment …	
Return air sensor adjustment	
— Fan control in cooling thermo-OFF	
— Fan control in heating thermo-OFF	
— Anti-frost temp	
— Anti-frost control	
Drain pump operation	
Residual fan operation in cooling	
— Residual fan operation in heating	
— Intermittent fan operation in heating	
— Fan circulator operation	
Control pressure adjust	
Auto operation mode	
— Thermo. rule setting	
Auto fan speed control	
— IU overload alarm	
	Service & Maintenanc
— IU address	
— Next service date	
— Operation data	
— Error display	
— Saving IU settings	
— Special settings	

5. The indication when power source is supplied

Power on and initial setting

Power on and initial setting

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

(1) When the main and sub are not yet set, $(1) \Rightarrow (2)$ 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.

(2) When the main and sub R/C units have already been set, (6) Ackowledge screen to continue setting is displayed.

(3) When using 2 units of RC-EX1 as the main and sub, if the first one is set for the main, the second is set for the sub automatically.







 $\begin{bmatrix} Main \end{bmatrix} (3) \Rightarrow (4) \Rightarrow (5) \\ \begin{bmatrix} Sub \end{bmatrix} (1) \Rightarrow (5) \Rightarrow (6) \\ \end{bmatrix}$

Caution

 \cdot 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.

When two R/Cs are used, if either one of them is set for the main, the other is set for sub automatically.

(5) TOP screen
6:11PM(Wed)
Now stopping.
Tap the panel for change.
6 Set continue acknowledge
N 1 1 1 1
Do you want to save up the previous settings of R/C before power ON?
Yes No
⑦ Initialize acknowledge
De unu munt de uneterne de faulte
Do you want to restore default R/C setting?
Yes No
⑧ Initialize set on
R/C is initializing.

[Yes]Continue \Rightarrow (6) \Rightarrow (5)[No]Change \Rightarrow (7)

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).

 $\begin{array}{ll} [\text{Yes}] & \Rightarrow \textcircled{8} \Rightarrow \fbox{5} \\ [\text{No}] & \Rightarrow \textcircled{6} \end{array}$

After the initializing, it returns to the default state.

6. Installation settings

Installation settings cover the following items.

- (1) Installation date: Register the date when the unit was installed. $\rightarrow \bigcirc$
- (2) Company information: Enter the information of contact for service. $\rightarrow (8)$
- (3) Test run: Cooling test run, drain pump test run or compressor Hz fixed operation is performed. \rightarrow (1)
- (4) Static pressure adjustment: Static pressure is adjusted in case of connecting the duct type IU equipped with the external static pressure adjustment function. →15
- (5) Change auto-address: In case of the Multi Series (KX) models, the IU address can be changed after the auto-address setting. \rightarrow 16
- (6) Address setting of main IU: In case of the Multi Series (KX) models, set the address of main/sub IU to prevent from mixing operation modes (Cooling, heating). →18
- (7) IU back-up function: IU rotation, IU capacity back-up, IU fault back-up are set. \rightarrow (19)



② Menu screen		
Menu		
Energy-saving setting		
Individual flap control		
External ventilation		
Filter sign reset		
Initial settings		
Select the item.	ext Back	
3 Menu screen #2	2]
	2]
③ Menu screen #2	2]
③ Menu screen #2	2]
3 Menu screen #2	2]
③ Menu screen #2 Menu Timer Weekly timer	2]



1) Tap the Menu button on the TOP screen.

23 Main menu screen is displayed.

Tap the "Installation settings" button on the menu screen.

④ Display the service password input screen.

Enter the service password (4-digit number). The service password is "9999". (Unable to change)

5 Installation	settings menu
Installation setting	s
Installation date	~7)
Company information	~8
Test run	~11)
Static pressure adju	ustment <15
Change auto-address	~16
Select the item.	Next
6 Installation	settings menu
Installation setting	s
Address setting of i	nain IU - 18
IU back-up function	-19
Previous	Back
Select the item.	
(7) Installation	date
Installation date	
]/20
	1

1 Installation date

Enter the date when the unit was installed. Select the date with

8 Compa	ny information
Company informa	tion
Company	9
Phone No.	-10
Select the item.	Back

Back

Set

Set the date.

(9) Enter the contact								
Compa	any						Se	et "
Alph	abet) 🛯	「MHI umber	<u> </u>	٢			110
A	В	С	D	Ε	F	G	H	Ι
J	К	L	M	N	0	Р	Q	R
Delete Next Back Input the name & tap [Set].								

(8) Company information

Enter the company information. Company \rightarrow (9) Phone No. \rightarrow (10)

(9) Enter the contact.

Up to 10 1-byte alpha numeric letters can be used. Tap the Set button after the input.

1 Enter the Phone No. of the contact
Di sus Na
0123-456-7899
0 1 2 3 4 Delete
56789 Set
Input the phone No. & tap [Set].
1) Test run

Test run	
Cooling test run	~12)
Drain pump test run	~13)
Compressor Hz fixed operation	214)
Select the item.	Back

2 Cooling test run
Cooling test run
Start
When tapping [Start], test run starts for 30 min. at 5°C in cooling. Finish-condition of test run is follows. Passage of 30 min./Stop the IU/Change "Set temp" ,"Operation mode" on the TOP screen. Back
13 Drain pump test run
Drain pump test run





1 Enter the Phone No. of the contact.

Tap the Set button after the input.

(1) Test run

Select a test run item to be implemented.

- (a) Cooling test run: Operation can be made only in cooling mode. \rightarrow
- (b) Drain pump test run \rightarrow (13)
- (c) Compressor Hz fixed operation: Setting can be made when the unit is stopped. This operation starts by operation procedure of the unit. \rightarrow (4)
- 12 Cooling test run

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.

13 Drain pump test run

Drain pump can be operated independently.

(4) Compressor Hz fixed operation

Compressor operation frequency of the inverter outdoor unit can be fixed. It may not be able to control effectively depending on the outdoor unit models.



16 Change auto-address			
Change auto-address	Finish		
IU address	OU address		
000 ⇒ 001	00 ⇒ 01		
001	00 ⇒ 01		
002	00		
003 ⇒ 004	00		
004	01		
005	01		
Change Select the IU address	Next Back		





15 Static pressure adjustment

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

Operating method is described in the installation manuals for the indoor units with this function.

1617 Change auto-address

In case of Multi series (KX) models, the IU addresses registered with the autoaddress setting method can be changed with this function .

18 Address setting of main IU

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 which shall be followed to the Main IU by using each R/C connected to each Sub IU.

In case of the single PAC unit, or the plural indoor units connected to one R/C, it is not available to operate.

Setting can be made from the main R/C of Sub IU only. It cannot be set from the sub R/C of Sub IU.

IU back-up function		
IU rotation	Disable	Details
IU capacity back-up	Disable	Details
IU fault back-up	Disable	
IU †ault back-up	Uisable Set	Back

19 IU Back-up function

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

IU rotation: Operate 2 sets of indoor units alternately at every set time of operation interval.

Set the timer for changeover $\rightarrow 20$

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. When the temp difference reaches to the set temp diff. it is switched to one unit operation.

Set the temp diff. for back-up \rightarrow (21)

IU fault back-up: If one of the IU has a fault and stops, the other one starts operation.

[Enable/Disable] setting of each function can be done.

When [IU rotation] or [IU capacity beck-up] is set [Enable], [IU fault back-up] is set [Enable] automatically.

20 Set the timer for changeover

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



2) Set the temp diff. for back-up

In IU capacity back-up function, the temperature difference between the temp to start operation of 2 indoor units and the set temp is set. (Setting range $2-5^{\circ}$ C)



7. R/C function settings

R/C function settings cover the following items. These settings can be done only when the unit is stopped.

- (1) Main/Sub of R/C: Set the main or sub R/C . \rightarrow (8)
- (2) Return air temp: Set the detection method of return air temp for applying to thermo. rule*. $\rightarrow 9$
- (3) R/C sensor: Set the operation mode to apply the temp detected with R/C sensor to thermo. rule*. $\rightarrow \bigcirc$
- (4) R/C sensor adjustment: Adjust the temperature detected with the R/C sensor. $\rightarrow 11$
- (5) Operation mode: Set Enable/Disable for each operation mode. \rightarrow
- (6) °C/°F: Set which of °C or °F is used. \rightarrow (15)
- (7) Fan speed: Changes the fan speed. \rightarrow 16
- (8) External input: Set the range to apply the external input (CNT) connected to plural indoor units. $\rightarrow \bigcirc$
- (9) Ventilation setting: Set this when a ventilation device is connected. $\rightarrow 18$
- (10) Flap control: Set one of 4 flap stop positions or free flap stop. \rightarrow (19)
- (11) Auto-restart: Set Enable or Disable of Auto-restart function. \rightarrow 20
- (12) Auto temp set: Set Enable or Disable of Auto temp set function. \rightarrow (21)
- (13) Auto fan speed: Set Enable or Disable of Auto fan speed function. \rightarrow
- * "Thermo. rule" means the "Judging to make thermostat ON or OFF" by detecting temperature.



1) Tap the Menu button on the TOP scre
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2 Menu screen
Menu
Energy-saving setting
Individual flap control
External ventilation
Filter sign reset
Initial settings
Select the item.

③ Menu screen #2
Menu
R/C function settings
IU settings
Service & Maintenance
Select the language
Contact company
Previous Back Select the item.

23 Main menu screen is displayed.

Tap the "R/C function settings" button on the menu screen.



5 R/C setting menu 1			
R/C function settings			
Main/Sub of R/C	~8		
Return air temp	9		
R/C sensor	~10		
R/C sensor adjustment	~11		
Operation mode	~14)		
	Next Back		
Select the item.			

~15
-16
~17)
-18
-19
Next Back

⑦ R/C setting menu 3		
R/C function settings	;	
Auto-restart	~20	
Auto temp setting	-21	
Auto fan speed	-22	
Previous		Back
Select the item.		

⑧ Main/Sub of R/C

Main/Sub of R/C	
Main	
Sub	
Select the item.	Васк

4 Display the service password input screen.

Enter the service password (4-digit number). The service password is "9999". (Unable to change)

(5)6) Display the R/C setting menu screens.

⑧ Main/Sub of R/C

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

9 Return air temp
Return air temp
Individual
Master IV
Averaged temp
Select the item.

Disable Enable	
Enable(Heating only)	
Enable(Cooling only)	

(1) R/C sensor adjustment	
R/C sensor adjustment	
Adjustment in cooling	~12
Adjustment in heating	-13
Select the item.	Back

(9) Return air temp

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.
- * "Thermo. rule" means the "Judging to make thermostat ON or OFF" by detecting temperature.

10 R/C sensor

Thermo. rule* is applied based on the temp detected with the R/C sensor.

Enable: Thermo. rule* is applied based on the temp detected with the R/C sensor in all operation modes.

- Enable (Heating only): Thermo. rule* is applied based on the temp detected with the R/C sensor in heating operation only. In case of other operation modes (including auto-heating mode), it is based on the Individual control of return air temperature.
- Enable (Cooling only): Thermo. rule* is applied based on the temp detected with the R/C sensor, excepted in heating operation. In case of heating modes, it is based on the Individual control of return air temperature.
- * "Thermo. rule" means the "Judging to make thermostat ON or OFF" by detecting temperature.

1) R/C sensor adjustment

Temperatures detected with the R/C sensor can be adjusted. Set this within the range of -3 to +3. (At 1°C intervals)

Adjustment in cooling $\rightarrow 12$ Adjustment in heating $\rightarrow 13$



(14) Operation mode		
Operation mode		
Auto	Disable	Enable
Cooling	Disable	Enable
Heating	Disable	Enable
Dry	Disable	Enable
Select the item.	Set	Back

12 Adjustment in cooling

13 Adjustment in heating

(1) Operation mode

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

(15) °C/°F	
°C/°F	
°C *F	
Select the item.	Back

6 Fan speed	
Fan speed	
4-speed	
3-speed	
2-speed(Hi-Lo)	
2-speed (Hi-Me)	
1-speed	
Select the item.	Back

15 °C/°F

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

- °C: Temperature is displayed in °C.
- °F: Temperature is displayed in °F.

16 Fan speed

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.

17 External input	
External input	
Individual	
All units	
Select the item.	Back

18 Ventilation setting	
Ventilation setting	
Disable	
Inter lock ing	
Independent	
Select the item.	

19 Flap control	
Flap control	
Stop at fixed position	
Stop at any position	
Select the item.	Back

20 Auto-restart	
Auto-restart	
Enable	
Disable	
Select the item.	Back

① External input

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.

18 Ventilation setting

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. Independent: If the ventilation is selected from the menu, only the ventilation device is operated or stopped independently.

19 Flap control

Set the flap stop control.

Stop at fixed position: The flap can be set to stop at one of 4 positions. Stop at any position: The flap can be set to stop at any position immediately after operating the R/C switch.

20 Auto-restart

Set the state of operation to be started when the power supply is restored after a power failure.

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, regardless the state of operation before the power failure.

2 Auto set temp	
Auto temp setting	
Enable	
Disable	
Select the item.	Back

Back

2 Auto fan speed

Auto fan speed

Select the item

Enable Disable

2 Auto set temp

Select Enable or Disable on the Auto temp setting screen.

Enable: Auto set temp can be selected.

Disable: Auto set temp cannot be selected. No select switch is displayed on the screen.

22 Auto fan speed

Select Enable or Disable on the Auto fan speed screen.

Enable: Auto fan speed can be selected.

- 25 -

Disable: Auto fan speed cannot be selected. No select switch is displayed on the screen.

8. IU settings

IU settings cover the following items. These settings can be done only when the unit is stopped.

- (1) High ceiling: Set the fan speed for High ceiling operation. $\rightarrow \textcircled{1}$
- (2) Filter sign: Set the time to display the filter sign. $\rightarrow 12$
- (3) External input 1: Set the control at the time when the signal is input to the external input 1 (CNT) of IU. \rightarrow (3)
- (4) External input 1 signal: Set the type of signal to input to the external input 1 (CNT) of IU. \rightarrow (4)
- (5) External input 2: Set the control at the time when the signal is input to the external input 2 (CNTA) of the IU equipped with the external input 2. \rightarrow (5)
- (6) External input 2 signal: Set the type of signal to input to the external input 2 (CNTA) of the IU. \rightarrow 16
- (7) Heating thermo-OFF temp adjustment: Adjust the temperature for judging to make thermostat ON or OFF during heating operation. →①
- (8) Return air sensor adjustment: Adjust the temperature detected with the return air temp sensor. $\rightarrow \textcircled{18}$
- (9) Fan control in cooling thermo-OFF: Set the fan control during cooling thermo-OFF. \rightarrow (9)
- (10) Fan control in cooling thermo-OFF: Set the fan control during heating thermo-OFF. \rightarrow 20
- (11) Anti-frost temp: Select the Anti-frost control temperature. \rightarrow (21)
- (12) Anti-frost control: Set the fan control during the Anti-frost control. \rightarrow (2)
- (13) Drain pump operation: Set the operation mode to operate the drain pump. \rightarrow
- (14) Residual fan operation in cooling: Select the residual fan operation time after stopping and thermo-OFF in cooling operation. \rightarrow
- (15) Residual fan operation in heating: Select the residual fan operation time period after stopping and thermo-OFF in heating operation.→②
- (16) Intermittent fan operation in heating: Select the fan control after the residual fan operation following stopping and thermo-OFF in heating operation.→@
- (17) Fan circulator operation: Set this when operating the fan as a circulator. $\rightarrow \textcircled{D}$
- (18) Control pressure adjust: Adjust the control pressure when connecting the outdoor air conditioning unit to the Multi (KX) System. → (28)
- (19) Auto operation mode: Set the control method for the auto operation mode. \rightarrow (29)
- (20) Thermo rule setting: Set the switching methods and conditions for the thermo rule. \rightarrow (40)
- (21) Auto fan speed control; Set the switching range of the fan tap at the auto fan speed setting. \rightarrow (4)
- (22) IU overload alarm: Overload alarm signal is transmitted when the room temperature differs to some extent from the setting temperature at 30 minutes after the start of operation. \rightarrow (45)



1) Tap the Menu button on the TOP screen.

2 Menu screen 1
Menu
Energy-saving setting
Individual flap control
External ventilation
Filter sign reset
Initial settings
Select the item.
③ Menu screen 3
R/C function settings
IU settings Service & Maintenance
Contact company
Previous Back Select the item.
④ Service password input



(5) Select IU			
IU select			
OOO WEST01	OO1 WEST02	OO2 WEST03	OO3 WEST04
OO4 EASTO1	OO5 EASTO2	OO6 EASTO3	OO7 EAST04
Select an 1		Next	Back

6 IU setting menu 1			
IU settings			
High ceiling	~11		
Filter sign	~12		
External input 1	~13		
External input 1 signa	ıl ~14)		
External input 2	~15		
Select the item.	Next Back		

2 3 Main menu screen is displayed.

Tap the "IU settings" on the menu screen.

④ Display the service password input screen.

Enter the service password (4-digit number). The service password is "9999". (Unable to change)

(5) When plural indoor units are connected, select the IU for the IU settings.

When the name/address of IU connected are displayed, select the unit to be set.

If all units are selected, the same setting is done for all units.

6~10 IU settings menu screens are displayed after receiving data from the IU.

⑦ IU setting menu 2	
IU settings	
External input 2 signal	-16
Heating thermo-OFF temp adjustment	~17)
Return air sensor adjustment	-18
Fan control in cooling thermo-OFF	-19
Fan control in heating thermo-OFF	-20
Previous	Back
Select the item.	

⑧ IU setting menu 3		
IU settings		
Anti-frost temp -21		
Anti-frost control -22		
Drain pump operation -23		
Residual fan operation in cooling -24)		
Residual fan operation in heating -25)		
Previous Next A Back		
Select the item.		

IU setting menu 4		
IU settings		
Intermittent fan operatio	n in heating < 26	
Fan circulator operation	~27)	
Control pressure adjust	-28	
Auto operation mode	-29	
Thermo. rule setting	-40	
Previous Select the item.	Next Back	

10 IU setting menu 5		
IU settings		
Auto fan speed control	-44	
IU overload alarm	-45	
Previous Select the item.		Back

(1) High ceiling

High ceiling Standard High ceiling 1 High ceiling 2 Select the item.

(1) High ceiling

Set the fan speed tap for the IU.

It may not be available to set depending on IU models connected.

12 Filter sign	
Filter sign	
No display	
Setting 1	
Setting 2	
Setting 3	
Setting 4	
Select the item.	Back

13 External input 1

External input 1

Select the item.

Permission/Prohibition Cooling/Heating Emergency stop

Run/Stop

12 Filter sign

Set the time to display the filter sign.

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

13 External input 1

Set the control at the time when the signal is input to the external input 1 (CNT) of IU.

14 External input 1 signal

Set the signal type to input to the external input 1 (CNT) of IU.

15 External input 2

16 External input 2 signal

This is operable when the IU equipped with the external input 2 is connected.

(1) External input 1 signal		
Forteneral Second Lastrees		
External input 1 signal Level input		
Pulse input		
Select the item.		

Back

(15) External	input 2	

External input 2	
Run/Stop	
Permission/Prohibition	
Cooling/Heating	
Emergency stop	
Select the item.	Back

16 External	input 2	signal
-------------	---------	--------

External input 2 signal	
Level input	
Pulse input	
Select the item.	Back





19 Fan control in cooling thermo-OFF	
Fan control in cooling thermo-OFF	
Low	
Set fan speed	
Intermittent	
Stop	
Select the item.	

2 Fan control in heating thermo-OFF
Fan control in heating thermo-OFF
Low
Set fan speed
Intermittent
Stop
Select the item.

1 Heating thermo-OFF temp adjustment

Adjust the temperature for judging to make thermostat ON or OFF during heating operation.

Adjustable range is 0° C to $+3^{\circ}$ C.

18 Return air sensor adjustment

Adjust the temperature detected with the return air temp sensor.

Adjustable range is -2° C to $+2^{\circ}$ C.

19 Fan control in cooling thermo-OFF

Set the fan speed at the cooling 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.

20 Fan control in heating thermo-OFF

Set the fan speed at the cooling 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.

2 Anti-frost temp
Anti-frost temp
Temp Low
Temp High
Select the item. Back

Back

Back

2 Anti-frost control

Anti-frost control

Select the item.

Drain pump operation

Select the item.

Standard(in cooling & dry) Operate in standard & heating Operate in heating & fan Operate in standard & fan

23 Drain pump operation

Enable Disable

21 Anti-	-frost	temp
----------	--------	------

Select the anti-frost control temperature.

2 Anti-frost control

Set the fan control during the anti-frost control.

Enable: The fan speed increases during the anti-frost control. Disable: The fan speed does not change during the anti-frost control.

23 Drain pump operation

Set the operation mode to operate the drain pump.

Standard (in cooling & dry):	Operates in cooling and dry mode.
Operate in standard & heating:	Operates in cooling, dry, and heating mode.
Operate in heating & fan:	Operates in heating and fan mode.
Operate in standard & fan:	Operates in cooling, dry and fan mode.

2 Residual fan oper	ration in cooling
Residual fan operation i	n cooling
No setting Setting1	
Setting2	
Setting3	
Select the item.	Back

24 Residual fan operation in cooling

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

Setting1: 0.5 hr Setting2: 2 hrs Setting3: 6 hrs

* Residual time period may vary occasionally.

25 Residual fan operation in heating
Residual fan operation in heating
No setting
Setting1
Setting2
Setting3
Select the item.

26 Intermittent fan operation in heating	
Intermittent fan operation in heating	
Stop	
Stop for 20 min & run for 5 min	
Stop for 5 min & run for 5 min	
Select the item Back	

Pan circulator operation
Fan circulator operation
Disable
Enable
Select the item. Back

Control pressure	adjust
Control pressure adjust	
Standard	
Туре1	
Select the item.	Back

25 Residual fan operation in heating

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

Setting1: 0.5 hr Setting2: 2 hrs Setting3: 6 hrs

26 Intermittent fan operation in heating

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 and run for 5 min:Check the operating conditions at every 25 min
and run the fan for 5 min.Stop for 5 min and run for 5 min:Check the operating conditions at every 10 min
and run the fan for 5 min.

27 Fan circulator operation

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.

28 Control pressure adjust

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

Standard: Normal

Type 1: When all operating IUs are in this mode, the control pressure value is changed.

29 Auto operatio	on mode
Auto operation mode	
Auto rule selection	-30
Auto 1 details	~31
Auto 2 details	-32
Auto 3 details	~33
Select the item.	Back

30 Auto rule selection	ו
Automala and action	
Auto rule selection auto1	
auto2	
auto3	
Select the item.	Back

3 Auto 1 details	
Auto 1 details	
Temp switching to cooling	
Temp switching to heating	
Select the item.	Васк

Temp switching to cooling \rightarrow 34 Temp switching to heating \rightarrow 35

- 29 Auto operation mode
- 30 Auto rule selection

Set the control method for the auto operation mode.

Method of switching between cooling and heating during automatic operation can be selected.

- Auto1: Cooling and heating are switched based on the difference between the set temperature and the room temperature.
- Auto2: Cooling and heating are switched based on the difference between the set temperature and the room temperature, and on the outdoor temperature.
- Auto3: Cooling and heating are switched based on the indoor and outdoor temperatures.

3) Auto 1 details

Set the temperatures switching to cooling and heating. Switching temperatures can be set within the range of 1°C to 4°C.

[Set temp - Temp switching to cooling] < [Indoor return air temp] \Rightarrow

Operation mode: Cooling

[Set temp + Temp switching to heating] > [Indoor return air temp] \Rightarrow

Operation mode: Heating



32 Auto 2 details
0
Auto 2 details
Temp switching to cooling
Temp switching to heating
Outdoor temp setting to limit in cooling
Outdoor temp setting to limit in heating
Select the item.

Temp switching to cooling $\rightarrow 34$

Temp switching to heating \rightarrow 35

32 Auto 2 details

Set the temperatures switching to cooling and heating and the outdoor temp settings to limit in cooling and heating.

"[Set temp - Temp switching to cooling] < [Indoor return air temp]" and "[Outdoor temp, cooling] < [Outdoor air temp]" \Rightarrow Operation mode: Cooling "[Set temp + Temp switching to heating] > [Indoor return air temp]" and "[Outdoor temp, heating] > [Outdoor air temp]" \Rightarrow Operation mode: Heating

30 Selection range of outdoor temp. in cooling 28 26 Cooling The no-OFF Temp.diff Outdoor temp setting to limit in cooling \rightarrow 36 24 Indoor temp 22 Outdoor temp setting to limit in heating $\rightarrow 37$ 20 Thermo-OFF Heating Forced Thermo-OFF Selection range of outdoor temp, in heating



Auto 3 (detai	ls				
Outdoor	temp	setting	to	limit	in	cooling
Outdoor	temp	setting	to	limit	in	heating
Indoor t	emp s	witching	to	cooli	ng	
Indoor t	emp s	witching	to	heati	ng	

33 Auto 3 details

Set the outdoor temp settings to limit in cooling and heating and the indoor temp settings to limit in cooling and heating.

- "[Indoor temp, cooling] < [Indoor return air temp]" and
- "[Outdoor temp, cooling] < [Outdoor air temp]" \Rightarrow Operation mode: Cooling "[Indoor temp, heating] > [Indoor return air temp]" and
- "[Outdoor temp, heating] > [Outdoor air temp]" \Rightarrow Operation mode: Heating

Outdoor temp setting to limit in cooling \rightarrow 36 Outdoor temp setting to limit in heating $\rightarrow \Im$ Indoor temp switching to cooling $\rightarrow 38$ Indoor temp switching to heating \rightarrow (39)













- 34 Temp switching to cooling
- 35 Temp switching to heating

In the Auto 1 and Auto 2, set the temperatures switching to cooling and heating. The switching temperatures can be set within the range of $1^{\circ}C$ to $4^{\circ}C$.

36 Outdoor temp set for cooling37 Outdoor temp set for heating

In the Auto 2 and Auto 3, set the outdoor temperatures for cooling and heating.

Outdoor temp, cooling: Can be set within the range of 10°C to 30°C. Outdoor temp, heating: Can be set within the range of 10°C to 22°C.

38 Indoor temp set for cooling39 Indoor temp set for heating

In the Auto 3, set the indoor temperatures for cooling and heating.

Indoor temp, cooling: Can be set within the range of 18°C to 30°C. Indoor temp, heating: Can be set within the range of 10°C to 30°C.


(1) Standard/Outdoor temp basis		
Standard/Outdoor temp basis		
Standard		
Outdoor temp basis		
Select the item		





(40) Thermo rule setting

Set the switching method and conditions for the thermo rule.

(4) Standard/Outdoor temp basis

Set the switching method for the thermo rule.

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. \rightarrow @

42 Cooling offset

43 Heating offset

The thermostat judges based on the outdoor temperature and the cooling and heating offset values.

(a) Cooling offset: The thermostat judges based on [Outdoor temp - Cooling offset value] during cooling.

The thermostat trips ON when [Indoor temp] > [Outdoor temp - Cooling offset value].

This value can be set in the range of 0°C to 10°C.

(b) Heating offset: The thermostat judges based on [Outdoor temp + Cooling offset value] during heating.

The thermostat trips ON when [Indoor temp] < [Outdoor temp + Cooling offset value].

This value can be set in the range of 0°C to 5°C.



Auto fan speed control
Auto for second constant
Auto fan speed control Auto 1
Auto 2
Select the item. Back



(4) Auto fan speed control

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 \Rightarrow Medium \Rightarrow Low. Auto 2: The fan tap is changed in the range of Powerful high \Rightarrow High \Rightarrow Medium \Rightarrow Low.

45 IU overload alarm

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).

9. Service & Maintenance

Service & Maintenance settings cover the following items.

- (1) IU address: Displays the "IU address" and "OU address" of the IU connected to the R/C. $\rightarrow \bigcirc$
- (2) Next service date: Enter the next service date (dd/mm/yy). $\rightarrow 9$
- (3) Operation data: Operation data are displayed when the indoor unit No is selected. $\rightarrow \bigcirc$
- (4) Error display: Error history and the data at occurrence of error, which are in the memory of R/C, are displayed. \rightarrow (4)
- (5) Saving IU settings: Contents of IU settings are saved in the R/C or transferred to IU. \rightarrow (2)
- (6) Special settings: This is used for the erasing of IU address, resetting of CPU, initializing, etc. \rightarrow (26)



1) Tap the Menu button on the TOP screen.

23 Main menu screen is displayed.

Tap the "Service & Maintenance" on the menu screen.

 ③ Menu screen 3

 Menu

 R/C function settings

 IU settings

 Service & Maintenance

 Select the language

 Contact company

 Previous

 Select the item.

Back

Next

Initial settings

Select the item

④ Service password input			
Input password			
Input the service password.			
0 1 2 3 4 Delete			
56789 Set			
Input 4 digit number & tap [Set] Back			

④ Display the service password input screen.

Enter the service password (4-digit number). The service password is "9999". (Unable to change)

(5) Service & ma	intenance menu 1
Service & Maintenand	ce .
IU address	~7)
Next service date	9
Operation data	~11)
Error display	~14)
Saving IU settings	~21)
Select the item.	
6 Service & ma	intenance menu 2
	intenance menu 2
6 Service & ma Service & Maintenand Special settings	

⑦ IU address			
IU address			
IU address	Name of IU	OU address	
000			
001			
002			
003			
004			
005			
006			
Check		Next Back	

(8) Check ru	n mode
check run mode	
Fan operation	Run Stop
Tap [Run] to check	Back



(5)6 Service & maintenance menus are displayed.

1 IU address

IU address, name of IU and OU address of the units connected to the R/C are displayed.

When 8 or more units are connected, further data are displayed on the next page. When the [Check] button is tapped after selecting an IU address, the fan of the selected IU can be operated . (Available only with Main) \rightarrow (8)

(8) Check run mode

In case that the address of the selected IU is registered but its installation place is unknown, when the fan operation is implemented individually., the installation place of IU can be identified with this procedure. Tap the [Run] button to start the fan operation.

Tap the [Stop] button to stop the fan operation.

9 Next service date10 Service message

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 [No setting] button is tapped, messages are not displayed.



(1) Operation data, IU select <u>IU select</u> <u>WEST01</u> <u>000</u> <u>001</u> <u>002</u> <u>003</u> <u>003</u> <u>WEST04</u> <u>005</u> <u>006</u> <u>007</u> <u>EAST01</u> <u>EAST01</u> <u>Next</u> <u>Back</u> Select an IU address.

12 Operation date			
Operation data		Up	date
IU OOO OU			
Item	Data		Disp.
01 Operation mode	Coc	oling	1
02 Set temp	28	°C	1
03 Return air temp	26	°C	1
04 R/C temp	29	°C	
05 IU heat exch. temp 1	10	°C	
Display Select 3 items for display	Next y & ta		lack play].

1) Operation data, IU select

If plural IUs are connected to the R/C, select the IU to be displayed. If only one IU is connected, the IU select screen is not displayed.

12 Operation data

After read the indoor unit data, the operation data at the time of reading are displayed. (Operation data are not updated automatically.)

Tapping the [Update] button to update the data.

If it is necessary to update the data and display automatically, 3 items to be updated automatically can be selected. (3 items must be selected.)

When the [Display] button is tapped after selecting 3 items, the display changes to the Individual display screen. \rightarrow (13)

< Operation data items>

No	Item	No	ltem	No	ltem
01	Operation mode	12	IU operation Hrs	30	SH control
02	Set temp	13	Supply air temp	31	SH
03	Return air temp	21	Outdoor air temp	32	TDSH
04	R/C temp	22	OU heat exch. temp 1	33	Protection control
05	IU heat exch. temp 1	23	OU heat exch. temp 2	34	OU fan speed
06	IU heat exch. temp 2	24	Compressor Hz	35	63H1
07	IU heat exch. temp 3	25	High pressure	36	Defrost
08	IU fan speed	26	Low pressure	37	Comp running Hrs
09	Required Hz	27	Discharge pipe temp	38	OU EEV1 opening
10	Answer Hz	28	Comp bottom temp	39	OU EEV2 opening
11	IU EEV opening	29	Current		

13 Individual display			
Operation data			
Operation mode	Cooling		
Set temp	28°C		
Return air temp	26°C		
	Back		

~(15)

~(18)

~(19)

-20

IU

Next

7PM 014

6:57PM 015 6:57PM 012

6:57PM 013

6:57PM 010 6:57PM 011

Back

Delete

ErrorCode

Back

E16 E15 E14

E13 E12 E11

(1) Error display

Display anomaly data

Reset periodical check

15 Error history

Erase anomaly data

Select the item

Error history

19/01/2011 19/01/2011 19/01/2011

19/01/2011

<u>19/01/2011</u> 19/01/2011

19/01/2011

Select the item

Time

Error display

Error history

13 Individual display

Data of selected items are updated and displayed automatically.

(14) Error display

Error history and data at occurrence of error saved in the R/C are displayed.

(a) Error history

- (b) Display anomaly data
- (c) Erase anomaly data
- (d) Reset periodical check

1516 Error history

Date and time when error occurred, IU address and Error Code are displayed. If none is recorded in the error history, no error is displayed.

16 No error display Error history No anomaly Back 17 Delete error history Delete error history Yes

Back

17 Delete error history

If the [Delete] button on the Error history screen is tapped, the Delete error history acknowledge screen is displayed. Tap [Yes] to erase the display of error history.

18 Display anomaly data

(19) Erase anomaly data

Yes

2 Reset periodical check

Do you want to reset the periodical check?

Yes

Back

Back

Erase anomaly data

Select the item

Reset periodical check

If yes, tap [Yes].

Display anomaly data				
IU 000 ErrorCode E	:09 OU			
Item	Data			
01 Operation mode	Cooling			
02 Set temp	28°C			
03 Return air temp	26°C			
05 IU heat exch. temp 1	10°C			
06 IU heat exch. temp 2	10°C			
	Next Back			

18 Display anomaly data

Operation data taken just before the occurrence of error are displayed. Display items are same as the <Operation data items> (refer to (2)).

19 Erase anomaly data

When tapping the [Yes] button on the Erase anomaly data acknowledge screen, the anomaly data are erased.

20 Reset periodical check

When tapping the [Yes] button on the Reset periodical check acknowledge screen, the periodical check is reset and the time count is reset.

2 Saving IU settings

Contents of setting for IU are saved in the R/C or transmitted to IU.

(a) Save IU settings

- (b) Automatic saving
- (c) Transfer the saved data

② Saving IU settings Saving IU settings Save IU settings Automatic saving Transfer the saved data Select the item.



22 Save IU settings

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

IU setting item for saving				
High ceiling	Fan control in heating thermo-OFF	Control pressure adjust		
Filter sign	Anti-frost temp	Auto operation mode		
External input 1	Anti-frost control	Thermo rule setting		
External input 1 signal	Drain pump operation	Auto fan speed control		
External input 2	Residual fan operation in cooling	Individual flap control		
External input 2 signal	Residual fan operation in heating			
Heating thermo-OFF temp adjustment	Intermittent fan operation in heating			
Return air sensor adjustment	Fan circulator operation			

23 Automatic saving Automatic saving Saving automatically at the set time. ۸ 0:00 Set

Back

.

23 Automatic saving

Set the time when the automatic saving is performed everyday. If the [No setting] button is tapped, the automatic saving is not performed.

24 Select IU **25** Transfer the saved data

IU setting data saved in the R/C are transferred to IU.

If an IU to which the saved date is transferred is selected, the Transfer the saved data acknowledge screen is displayed. Tap [Yes] to transfer the data.



T

No setting

Tap ▲▼ to set time & tap [Set].



Special settings	;
Special settings	
Erase IU address 📿 27)	
CPU reset -28	
Restore of default setting	~ 29
Touch panel calibration	-30
Select the item.	Back

26 Special settings

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).
Initializing:	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.

Image: Constraint of the second se

If OK, tap [Yes].

28 CPU reset

Restart after reset.

If OK, tap [Yes].

If OK, tap [Set].

Yes

29 Restore of default setting

Do you want to restore all settings?

Yes

Restore of default setting

CPU reset

Back

Back

Back

2 Erase IU address

Memory of the IU address for Multi (KX) unit is erased. This is operable from the main R/C only and only when IUs are stopped. Tap [Yes] to erase IU address

28 CPU reset

All microcomputers on the R/C operated, other R/Cs, IUs and OUs are reset (State of restoration after power failure). Tap [Yes] to reset CPU

29 Restore of default setting

Settings on the R/C and IU connected are restored to the default setting (State of factory default). Tap [Yes] to restore the default setting.

3 Touch panel calibration	3 Touch panel calibration
Touch panel calibration	Use this when the display and the touch position are not matched. Tap the [Start] button to start calibration Tap the center of [+] according to the prompt.
If Yes, tap [Start]. (3) Touch panel calibration 1	Tap [+] on the lower right
Tap [+] on the lower right.	
+ ③ Touch panel calibration 2	Tap [+] on the upper left
Tap [+] on the upper left.	
③ Touch panel calibration end + + + + +	Tap the center of [+] and check the deviation from the display. [Cancel] \Rightarrow The display returns to the screen ③. [Redo] \Rightarrow Retry the calibration on the screen ③. [Finish] \Rightarrow Calibration is completed.
Tap center of [+] & check screen position. + Cancel Redo Finish +	

6:52PM(Wed)
Coolins Set temp
1 23.0 ° ₽
Now stopping.
Tap the panel for change.
2 Menu screen
Menu
Energy-saving setting
Individual flap control
External ventilation
Filter sign reset
Initial settings
Next A Back
Select the item.
③ Menu screen #2
Menu
R/C function settings
IV settings
Service & Maintenance
Select the language 🦷
Contact company
Previous Back
Select the item.
④ Service password input
Input password
Input password Input the service password.
0 1 2 3 4 Delete
5 6 7 8 9 Set
Back
Input 4 diśit number & tap [Set]
5 Select the language
Select the language
English
Set Back
Select the language

① TOP screen

1) Tap the Menu button on the TOP screen.

23 Main menu screen is displayed.

Tap the "Select the language" on the menu screen.

④ When the Input password screen is displayed, enter the administrator password (4-digit number).

Default number of the administrator password is "0000". (Able to change)

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

eco touch REMOTE CONTROL RC-EX1 QUICK REFERENCE

Quick reference ENGLISH



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

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

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

When the ownership of the unit is changed, please be sure to transfer this manual and the "Installation Manual" (in CD-R) to a new owner.

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

INSTALLATION

For the operation part of this Quick reference refer to page 18. Refer to the "Installation manual" (in CD-R) for details.

Contents

1. Safety Precautions3
2. Accessories & Prepare on site4
3. Remote control installation procedure4
4. The indication when power source is supplied7
5. Menu Items8
5.1 Installation settings9
5.2 R/C function settings 11
5.3 IU settings 13
5.4 Service & Maintenance 16

1. Safety Precautions

This installation manual describes the installation methods and precautions related to the remote control. Use this manual together with the user's manuals for the indoor unit, outdoor unit and other optional equipment. Please read this manual carefully before starting the installation work to install the unit properly.

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.

Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc
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.

•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, the "Installation Manual" should be given to a new owner.

⚠WARNING	
Ask a professional contractor to carry out installation work according to the installation manual. Improper installation work may result in electric shocks, fire or break-down.	\bigcirc
Shut OFF the main power supply before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.	0
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.	\bigcirc
Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire or break-down.	\bigcirc
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.	0
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.	
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.	0
Do not install the remote control at following places. It could cause break-down or deformation of remote control. (1) Where it is exposed to direct sunlight (2) Near the equipment to generate heat (3) Where the surface is not flat	0
Do not leave the remote control with its upper case removed. When the upper case is removed, put it in a packing box or packing bag to protect internal PCBs or other parts from dust, moisture, etc.	0

2. Accessories & Prepare on site

Accessories

R/C main unit, wood screw (ø3.5 x 16) 2 pcs User's Manual, Installation Manual

Parts procured at site

Item name	Q'ty	Remark
Switch box For 1 piece or 2 pieces (JIS C8340 or equivalent)	1	
Thin wall steel pipe for electric appliance (JIS C8305 or equivalent)	As required	These are not required when installing directly on a wall.
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
< 300 m	0.75 mm ² x 2-core
< 400 m	1.25 mm ² x 2-core
< 600 m	2.0 mm ² x 2-core

3. Remote control installation procedure

Determine where to install the remote control Installation space Installation "Using a switch box" "Installed directly on a wall" 30mm Wiring direction "Backward" Wiring "Upper center", "Upper left" Cautions for selecting installation place 30mm 30mm (1) Installation surface must be flat and sufficiently strong. R/C case must not be deformed. (2) Where the R/C can detect room temperatures accurately. This is a must when detecting room temperatures with the temperature sensor of R/C. · Install the R/C where it can detect the average temperature in the room. · Install the R/C separated from a heat source sufficiently. · Install the R/C where it will not be influenced by the turbulence of air when the R/C temperature sensor door is opened or closed. Secure minimum spaces for Select a place where the R/C is not exposed to direct sunlight or blown by winds disassembling the case. from the air conditioner or temperatures on the wall surface will not deviate largely 20mm Upper left and Upper right sides from actual room temperature.30mm or more Bottom side...120mm or more If using L-shaped screwdriver, 50mm or more is available.



Installation procedure

Dimensions (Viewed from front) Fixing holes $\overline{123}$ $\overline{123}$ $\overline{123}$ $\overline{123}$

① 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.

In case of embedding wiring (When the wiring is retrieved "Backward")

Take care to protect the removed upper case

from moisture or dust.

PCB side (Viewed from rear)



② 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.

19





In case of exposing wiring (When the wiring is taken out from the "upper center" or "upper left" of R/C)

③ Cut out the thin wall sections on the cases for the size of wire.

If the hole is cut too large, moisture, dust or insects may enter. Seal gaps with putty or the like.

- ④ Fix the bottom R/C case on a flat surface with wood screws.
- (§ In case of the upper center, pass the wiring behind the bottom case. (Hatched section)
- (6) Fix wires such that the wires will run around the terminal screw of the top case of R/C.
- ⑦ Install the top case with care not to pinch wires of R/C.





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

Main-Sub setting for use of two or more R/Cs

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 7.



R/C function	Main	Sub
Run/Stop, setting temperature, fan speed and flap direction operations	0	0
High power and energy-saving operations	0	0
Energy-saving setting	0	-
R/C sensor	0	-
Test run menu operation	0	-
Room temperature range setting	0	-
Indoor unit settings	0	-
Individual flap control	0	-
Operation data display	0	-
Error history display	0	0



Note: Combination of R/C and indoor unit

(1) It can be used as the combination of Main and Sub with RC-E3 to -E5 type of wireless R/C (optional part).

(2) It can be combined with FD-V or FD-KX E6 type and later types of indoor units

(3) In cases of combination with FD-V or FD-KX E6 type unit, there are some controlling items which cannot be used.

If operating such items, the message "Invalid request" is displayed.

4. The indication when power source is supplied

Power on and initial setting

Power on and initial setting

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

(1) When the main and sub are not yet set, $(1) \Rightarrow (2)$ 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.

- (2) When the main and sub R/C units have already been set, (6) Ackowledge screen to continue setting is displayed.
- (3) When using 2 units of RC-EX1 as the main and sub, if the first one is set for the main, the second is set for the sub automatically.



If the screen is not tapped for more than 15 seconds, the [Yes] (Continue) is selected and the display changes to the screen of $(\overline{5})$.

After the initializing, it returns to the default state.

3. Menu items

Main menu	(♦) It is necess	ary to input	the Service password for menu items showing.
_	Basic operation]	Refer to User's manual
_	Energy-saving setting]	Refer to User's manual
_	Individual flap control]	Refer to User's manual
_	Enternal ventilation]	Refer to User's manual
_	Filter sign reset]	Refer to User's manual
_	Initial settings]	Refer to User's manual
_	Timer setting		Refer to User's manual
_	Weekly timer]	Refer to User's manual
_	Home leave mode]	Refer to User's manual
_	Administrator settings]	Refer to User's manual
_	Select the language]	Refer to User's manual
_	Comtact company]	Refer to User's manual
_	Installation settings (أ)	<u> </u>	Installation date 9 Company information 9
			Static pressure adjustment
			Change auto-address 10
			Address setting of main IU
_	R/C settings (◊)		Main/Sub of R/C
			Return air temp
			R/C sensor adjustment
			°C / °F Refer to Installation manual
			Fan speedRefer to Installation manual External input
			Ventilation setting
			Flap control
			Automatic set temp 13
			Auto fan speed
-	IU settings (⊘)		High ceiling
			External input 1
			External input 1 signa I External input 2
			External input 2 signal J Heating thermo-OFF temp adjustment
			Return air sensor adjustment
			Fan control in cooling thermo-OFF
			Anti-frost temp Refer to Installation manual
			Anti-frost control
			Residual fan operation in cooling
			Intermittent fan operation in heating 15
			Fan circulator operation
			Auto operation mode
			Thermo. rule setting
			IU overload alarm
L	Service & Maintenance (أ)	<u> </u>	IU address
			Next service date
			Error display
			Saving ID settings

Installation settings (Service password)

Installation settings cover the following items.

- (1) Installation date: Register the date when the unit was installed. $\rightarrow (7)$
- (2) Company information: Enter the information of contact for service. \rightarrow (8)
- (3) Test run: Cooling test run, drain pump test run or compressor Hz fixed operation is performed. $\rightarrow (1)$
- (4) Static pressure adjustment: Static pressure is adjusted in case of connecting the duct type IU equipped with the external static pressure adjustment function. →15
- (5) Change auto-address: In case of the Multi Series (KX) models, the IU address can be changed after the auto-address setting. →(i6)
- (6) Address setting of main IU: In case of the Multi Series (KX) models, set the address of main/sub IU to prevent from mixing operation modes (Cooling, heating), →18
- (7) IU back-up function: IU rotation, IU capacity back-up, IU fault back-up are set. →19





1) Tap the Menu button on the TOP screen.



screen.

Enter the service password (4-digit number). Refer to the Installation manual.



Installation date

Enter the date when the unit was installed Select the date with **A v** buttons, and tap the Set button.



(10) Enter the Phone No. of the contact. Tap the Set button after the input.

(2)(3) Main menu screen is displayed. Tap the "Installation settings" button on the menu screen.



(4) Display the service password input (5)(6) Display the installation settings screen.

Company		
	~ 10	
Phone No.	_10	

⑧ Company information Enter the company information. Company → ⑨

Phone No. →10

Drain pump test run 🗐
Compressor Hz fixed operation 🖂 14)

Enter the contact Set								
Alphabet Number								
A	В	С	D	Ε	F	G	H	I
J	K	L	н	N	0	Ρ	Q	R
Delete Input the) nane	& ta	e Di	Nex et].	t	Ba	ick

③ Menu screen #2

Henu

Veekly timer

Home Leave mode

Select the item

Administrator settings

Installation settings

Installation settings

IU back-up function

Select the item

Address setting of main IU

Previous

Previous

6 Installation settings menu

ht |

<18)

∠19)

Back

Back

(9) Enter the contact.

Up to 10 1-byte alpha numeric letters can be used. Tap the Set button after the input.

- (a) Cooling test run: Operation can be made only in cooling mode. $\rightarrow 12$
- (b) Drain pump test run \rightarrow (3)
- (c) Compressor Hz fixed operation: Setting can be made when the unit is stopped. This operation starts by operation procedure of the unit. \rightarrow (14)

1) Test run

Select a test run item to be implemented.

1 Cooling test run
Coolins test run
Start
When tapping [Start], test run starts for 30 min. at 5°C in cooling. Finish-condition of test run is follows
Passage of 30 min./Stop the IU/Change "Set temp" ,'Operation mode" on the TUP screen.
Back

13 Drain pump test run Drain pump test run Ru Back Select the item



(12) Cooling test run

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.

(4) Compressor Hz fixed operation
Compressor operation frequency of the inverter
outdoor unit can be fixed. It may not be able to
control effectively depending on the outdoor unit
models.



(5) Static pressure adjustment

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

Operating method is described in the installation manuals for the indoor units with this function.





1617 Change auto-address

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

When an indoor unit is selected and the Change button is tapped, the display

changes to the Change auto-address screen (7). When the address is changed with **A** buttons and the Set button is tapped, it returns to the Change auto-address screen 16 on which the new address is displayed. Tap the Finish button to register the new address.

Details

Back



19 IU Back-up function

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

Disable Details

Disahla

IU rotation: Operate 2 sets of indoor units alternately at every set time of operation interval.

Set the timer for changeover $\rightarrow 20$

- 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. When the temp difference reaches to the set temp diff. it is switched to one unit operation. Set the temp diff. for back-up $\rightarrow (21)$
- IU fault back-up: If one of the IU has a fault and stops, the other one starts operation.

[Enable/Disable] setting of each function can be done.

When [IU rotation] or [IU capacity beck-up] is set [Enable], [IU fault backup] is set [Enable] automatically.



(18) Address setting of main IU

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 which shall be followed to the Main IU by using each R/C connected to each Sub IU.

In case of the single PAC unit, or the plural indoor units connected to one R/ C, it is not available to operate.

Setting can be made from the main R/C of Sub IU only. It cannot be set from the sub R/C of Sub IU.



20 Set the timer for changeover

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



2) Set the temp diff. for back-up

In IU capacity back-up function, the temperature difference between the temp to start operation of 2 indoor units and the set temp is set. (Setting range 2-5°C)

R/C function settings (Service password)

R/C function settings cover the following items. These settings can be done only when the unit is stopped.

- (1) Main/Sub of R/C: Set the main or sub R/C . \rightarrow (8)
- (2) Return air temp: Set the detection method of return air temp for applying to thermo, rule^{*}, \rightarrow (9)
- (3) R/C sensor: Set the operation mode to apply the temp detected with R/C sensor to thermo. rule*. → 10
- (4) R/C sensor adjustment: Adjust the temperature detected with the R/C sensor. $\rightarrow \widehat{11}$
- (5) Operation mode: Set Enable/Disable for each operation mode. \rightarrow
- (6) °C/°F: Set which of °C or °F is used. →Refer to Installation manual
- (7) Fan speed: Changes the fan speed. \rightarrow Refer to Installation manual
- (8) External input: Set the range to apply the external input (CNT) connected to plural indoor units. →(5)
- (9) Ventilation setting: Set this when a ventilation device is connected. $\rightarrow 16$
- (10) Flap control: Set one of 4 flap stop positions or free flap stop. $\rightarrow (\overline{12})$
- (11) Auto-restart: Set Enable or Disable of Auto-restart function. →18
- (12) Auto temp set: Set Enable or Disable of Auto temp set function. \rightarrow (19)
- (13) Auto fan speed: Set Enable or Disable of Auto fan speed function. →20
- * "Thermo. rule" means the "Judging to make thermostat ON or OFF" by detecting temperature.



1) Tap the Menu button on the TOP screen.

② Menu screen	3 Menu screen #2
Nenu	Menu
Energy-saving setting	R/C function settings
Individual flap control	IU settings
External ventilation	Service & Maintenance
Filter sign reset	Select the language
Initial settings	Contact company
Select the item.	Previous Back Select the item.
Initial settings	Select the language Contact company Previous Back

23 Main menu screen is displayed. Tap the "R/C function settings" button on the menu screen.

6 R/C setting menu 2	⑦ R/C setting menu 3
R/C function settings	R/C function settings
°C/'F	Auto-restart 🔨
Fan speed	Auto temp settins 🔨 19
External input <15	Auto fan speed 🛛 📿 20
Yentilation setting -16	
Flap control 17	
Previous Next Back	Previous Back
Select the item.	Select the item.

567 Display the R/C setting menu screens.

(5) R/C setting menu 1 R/C function settings Main/Sub of R/C

Return air tem

Operation mode

Select the item

R/C sensor adjustment

R/C sensor

18

-(9) **√**10)

-(11)

√14 Next Raci

(4) Service password input Delet Input 4 digit number & tap [Set] Back

④ Display the service password input screen. Enter the service password (4-digit number). Refer to the Installation manual.

⑧ Main/Sub of R	/C
Main/Sub of R/C	
Main Sub	
Select the item.	Back

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

9 Return air temp	
Return air temp	
Individual	
Master IV	
Averased temp	
Select the item.	Back

(9) Return air temp

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. * "Thermo. rule" means the "Judging to make thermostat ON or OFF" by detecting temperature.

10 R/C sensor	
R/C sensor	
Disable	
Enable	
Enable(Heating only)	
Enable(Cooling only)	
	_
Select the item.	Back

10 R/C sensor

Thermo. rule* is applied based on the temp detected with the R/C sensor.

Enable: Thermo. rule* is applied based on the temp detected with the R/C sensor in all operation modes.

- Enable (Heating only): Thermo. rule* is applied based on the temp detected with the R/C sensor in heating operation only. In case of other operation modes (including auto-heating mode), it is based on the Individual control of return air temperature.
- Enable (Cooling only): Thermo. rule* is applied based on the temp detected with the R/C sensor, excepted in heating operation. In case of heating modes, it is based on the Individual control of return air temperature.
- * "Thermo. rule" means the "Judging to make thermostat ON or OFF" by detecting temperature.

R/C sensor adjustment	
Adjustment in cooling	√12
Adjustment in heating	√13)

 R/C sensor adjustment Temperatures detected with the R/ C sensor can be adjusted.
 Set this within the range of -3 to +3. (At 1°C intervals)

Adjustment in cooling $\rightarrow \textcircled{2}$ Adjustment in heating $\rightarrow \textcircled{3}$



2 Adjustment in cooling

(3) Adjustment in heating

ustment in heating			
nt in heating			
	Set		
≝° ▼			
to set offset value.	Back		

 Operation mode

 Breaction mode

 Auto
 Disable

 Cooling
 Disable

 Heating
 Disable

 Pry
 Disable

 Select the ites
 Set

(1) Operation mode

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

15 External input	t
External input Individual	
All units	
Select the item.	Back

(5) External input

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.

18 Auto-restart	
Auto-restart	
Enable	
Disable	
Salast the item	Back

18 Auto-restart

Set the state of operation to be started when the power supply is restored after a power failure.

- 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, regardless the state of operation before the power failure.

Ventilation	setting	
Disable		
Inter lock in	ś	
Independent		

6	Venti	lation	setting
---	-------	--------	---------

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. Independent: If the ventilation is selected from the menu, only the ventilation device is operated or stopped independently.

19 Auto set temp)
Auto temp setting	
Enable	
Disable	
Select the item.	Back

19 Auto set temp

Select Enable or Disable on the Auto temp setting screen.

Enable: Auto set temp can be selected. Disable: Auto set temp cannot be selected. No select switch is displayed on the screen.

1 Flap control	
Flap control	
Stop at fixed position	
Stop at any position	
Select the item.	Back

Flap control Set the flap stop control.

Stop at fixed position: The flap can be set to

Stop at inter position. The hap can be set to stop at one of 4 positions. Stop at any position: The flap can be set to stop at any position immediately after operating the R/C switch.

2 Auto fan speed	
Auto fan speed	
Enable	
Disable	
Select the item.	Back

20 Auto fan speed

Select Enable or Disable on the Auto fan speed screen.

Enable: Auto fan speed can be selected. Disable: Auto fan speed cannot be selected. No select switch is displayed on the screen.

IU settings (Service password)

IU settings cover the following items. These settings can be done only when the unit is stopped.

- (1) High ceiling: Set the fan speed for High ceiling operation. $\rightarrow (1)$
- (2) Filter sign: Set the time to display the filter sign. →①
- (3) External input 1: Set the control at the time when the signal is input to the external input 1 (CNT) of IU. →Refer to Installation manual
- (4) External input 1 signal: Set the type of signal to input to the external input 1 (CNT) of IU. →Refer to Installation manual
- (5) External input 2: Set the control at the time when the signal is input to the external input 2 (CNTA) of the IU equipped with the external input 2. →Refer to Installation manual
- (6) External input 2 signal: Set the type of signal to input to the external input 2 (CNTA) of the IU. →Refer to Installation manual
- (7) Heating thermo-OFF temp adjustment: Adjust the temperature for judging to make thermostat ON or OFF during heating operation. →(3)
- (8) Return air sensor adjustment: Adjust the temperature detected with the return air temp sensor. →(1)
- (9) Fan control in cooling thermo-OFF: Set the fan control during cooling thermo-OFF. →(5)
- (10) Fan control in cooling thermo-OFF: Set the fan control during heating thermo-OFF. →16
- (11) Anti-frost temp: Select the Anti-frost control temperature. →Refer to Installation manual
- (12) Anti-frost control: Set the fan control during the Anti-frost control. →Refer to Installation manual
- (13) Drain pump operation: Set the operation mode to operate the drain pump. $\rightarrow \bigcirc$
- (14) Residual fan operation in cooling: Select the residual fan operation time after stopping and thermo-OFF in cooling operation. → (18)
- (15) Residual fan operation in heating: Select the residual fan operation time period after stopping and thermo-OFF in heating operation. --
- (16) Intermittent fan operation in heating: Select the fan control after the residual fan operation following stopping and thermo-OFF in heating operation. \rightarrow
- (17) Fan circulator operation: Set this when operating the fan as a circulator. $\rightarrow (2)$
- (18) Control pressure adjust: Adjust the control pressure when connecting the outdoor air conditioning unit to the Multi (KX) System. → 🕲
- (19) Auto operation mode: Set the control method for the auto operation mode. \rightarrow (2)
- (20) Thermo rule setting: Set the switching methods and conditions for the thermo rule. →25
- (21) Auto fan speed control; Set the switching range of the fan tap at the auto fan speed setting. $\rightarrow \varnothing$
- (22) IU overload alarm: Overload alarm signal is transmitted when the room temperature differs to some extent from the setting temperature at 30 minutes after the start of operation. →28

① TOP	screen	
6:52PN(lled)		Menu
Coolins &	Set temp	Direction
Timer ©	23.0∘	*
Now stopping	5.	
Tap the pane	l for chanse.	

(1) Tap the Menu button on the TOP screen.



(4) Display the service password input screen

Enter the service password (4-digit number). Refer to Installation manual.

(3) II L anthing many 0	
⑦ IU setting menu 2	
10 settings	
External input 2 signal	
Heating thermo-OFF temp adjustment	<13
Return air sensor adjustment	-14
Fan control in cooling thermo-OFF	√15
Fan control in heating thermo-OFF	<16
Previous Next A	Back
V	
(1) High ceiling	
Hish ceilins	
Standard	

High ceiling 1	
High ceiling 2	
Select the item.	Back

1) High ceiling

Set the fan speed tap for the IU. It may not be available to set depending on IU models connected.

(1) Return air sensor a	djustment
Return air sensor adjustment	
+1.5 .₀ ▲	Set
Tap ▲▼ to set offset value.	Back

(4) Return air sensor adjustment

Adjust the temperature detected with the return air temp sensor. Adjustable range is -2°C to +2°C.

② Menu screen 1	
Nenu	
Energy-saving setting	
Individual flap control	
External ventilation	
Filter sign reset	
Initial settings	
Select the item.	

③ Menu screen 3	
Nenu	
R/C function settings	
IV settings h	
Service & Maintenance	
Select the language	
Contact company	
Previous	Back
Select the item.	

23 Main menu screen is displayed. Tap the "IU settings" on the menu screen.



- (5) When plural indoor units are connected, select the IU for the IU settings.
- When the name/address of IU connected are displayed, select the unit to be set.

If all units are selected, the same setting is done for all units.

IU settings		
High ceiling	√11	
Filter sign	√12	
External input 1		
External input 1 sig	nal	
External input 2		
Select the item.	Next e Ba	ick

6~10 IU settings menu screens are displayed after receiving data from the IU.

ng menu 3	9
	11
	In
rol	Fa
ation 🗐	Co
eration in cooling 🗐	Au
eration in heating 🗐	Th
vious Next N Back	10
	Sel

IU setting menu 4
10 settings
Intermittent fan operation in heating 20
Fan circulator operation <21
Control pressure adjust <22
Auto operation mode 🛛 🖉 23
Thermo. rule settins 🖌 乏 5
Previous Next 🕅 Back
Select the item.

Auto fan speed control	27)	
IV overload alarm	-∠28	







2 Filter sign

i disel

(8) IU setti IU settings Anti-frost tem Anti-frost com Drain pump ope Residual fan op sidual fan o Pre iter

Set the time to display the filter sign.

Fan control	in cooling the	erno-OFF
Lov		
Set fan spe	ed	
Intermittent		
Stop		

15 Fan control in cooling thermo-OFF

Set the fan speed at the cooling thermo-OFF. The fan runs at the low speed. Low: 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.

(13) Heating thermo-OFF temp adjustment Adjust the temperature for judging to make thermostat ON or OFF during heating operation. Adjustable range is 0°C to +3°C.

Fan conte	rol in heatins	thermo-OFF	
Lov			
Set fan s	speed		
Intermitt	ent		
Stop			

16 Fan control in heating thermo-OFF

Set the fan spe	eed at the cooling 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	t: Cycles of Lo fan operation for 2 minutes
	and stop for 5 minutes are repeated.
Stop:	The fan is stopped.

-14 -

⑦ Drain pump operation
Drain pump operation
Standard(in cooling & dry)
Operate in standard & heating
Operate in heating & fan
Operate in standard & fan
Select the item.

17 Drain pump operation Set the operation mode to oper

e		peration mode ard (in cooling		the drain pump. Operates in cooling and dry mode.
	Opera	te in standard	& heating:	Operates in cooling, dry, and heating mode.
	Opera	te in heating a	& fan:	Operates in heating and fan mode.
	Opera	te in standard	& fan:	Operates in cooling, dry and fan mode.

20 I	nitt	ant fa	n opera	tion in	heat	ns.
Stop						
Stop	for	20 mi	nårur	for 5	nin	
Stop	for	5 min	& run	for 5 m	in	
	+ +1	e item			T	Back

20 Intermittent fan operation in heating

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 and run for 5 min: Check the operating conditions at every 25 min and run thor 5 min. Stop for 5 min and run for 5 min: Check the operating conditions at every

10 min and run the fan for 5 min.

Residual fan operation in cooling				
No setti	ng			
Setting 1				
Settins2				
Setting3				



- (18) Residual fan operation in cooling
- (9) Residual fan operation in heating

Select the residual fan operation time period after stopping and the thermo-OFF in heating mode. Setting1: 0.5 hr $\,$

Setting2: 2 hrs

Setting3: 6 hrs

* Residual time period may vary occasionally.

Fan circulator operation					
Disable					
Enable					

2) Fan circulator operation

- 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.

2 Control pressure	adjust
Control pressure adjust	
Standard	
Type 1	
Select the item.	Back

② Control pressure adjust

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

Standard: Normal

Type 1: When all operating IUs are in this mode, the control pressure value is changed.

Auto operation mode	Auto rule
Auto rule selection 📿 24	auto 1
Auto 1 details	auto2
Auto 2 details	auto3
Auto 3 details	
Select the item. Back	Select the

24 Auto rule selection	
Auto rule selection	
autol	
auto2	
auto3	
Select the item.	Back

. . .

125 Thermo rule setting	(26) Stand
Thermo, rule setting	Standard/Ou
Standard/Outdoor temp basis 👔 🛹 26	Standard
Caoling offset	Outdoor tem
Heating offset	
Select the item. Back	Select the i

Standard/Outdoor temp basis Standard/Outdoor temp basis Standard
Standard
Outdoor temp basis
Select the item. Back

2 Auto operation mode

2 Auto rule selection

Set the control method for the auto operation mode.

Method of switching between cooling and heating during automatic operation can be selected.

- Auto1: Cooling and heating are switched based on the difference between the set temperature and the room temperature.
- Auto2: Cooling and heating are switched based on the difference between the set temperature and the room temperature, and on the outdoor temperature.
- Auto3: Cooling and heating are switched based on the indoor and outdoor temperatures.

25 Thermo rule setting

Set the switching method and conditions for the thermo rule.

26 Standard/Outdoor temp basis

Set the switching method for the thermo rule.

- 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.

2 Auto fan speed control
Auto fan speed control
Auto I
Auto 2
Select the item.

2 Auto fan speed control

- 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 \Rightarrow Medium \Rightarrow Low. Auto 2: The fan tap is changed in the range of Powerful high \Rightarrow High \Rightarrow Medium \Rightarrow Low.

Service & Maintenance (Service password)

Service & Maintenance settings cover the following items.

- (1) IU address: Displays the "IU address" and "OU address" of the IU connected to the R/C. →⑦
- (2) Next service date: Enter the next service date (dd/mm/yy). $\rightarrow (9)$
- (3) Operation data: Operation data are displayed when the indoor unit No is selected. \rightarrow (1)
- (4) Error display: Error history and the data at occurrence of error, which are in the memory of R/C, are displayed, $\rightarrow \widehat{(4)}$
- (5) Saving IU settings: Contents of IU settings are saved in the R/C or transferred to IU. \rightarrow (2)
- Special settings: This is used for the erasing of IU address, resetting of CPU, initializing, etc. $\rightarrow \emptyset$ (6)

(1) TOP :	screen	Nenu A
Cooling S Timer C	Set temp 23.0°c	
Now stopping Tap the pane		

① Tap the Menu button

on the TOP screen.

Select the item

② Menu screen 1	3 M
Nenu	Nenu
Energy-saving setting	R/C fun
Individual flap control	10 sett
External ventilation	Service
Filter sign reset	Select
Initial settings	Contact
Select the item.	Select
③ Main menu screen is dis	played.

Tap the "Service & Maintenance" on the menu screen.

e menu 2

③ Menu screen 3	
Nenu	
R/C function settings	
IU settings	
Service & Maintenance	
Select the language)
Contact company	
Previous	Back
Select the item.	

28 IU overload alarm 10 overload alarn

Cancel

28 IU overload alarm

۸

¥

Tap ▲▼ to set temp & tap [Set]

transmitted from the external output (CNT).

Back

When the room temperature differs to some extent from the setting tempera-

ture at 30 minutes after the start of operation, the overload alarm signal is



(4) Display the service password input screen. Enter the service password (4-digit number). Refer to Installation manual.

(5) Service & mai	intenance menu 1	6 Service & maintenan
Service & Maintenance	9	Service & Naintenance
IV address	-7	Special settings 🗐
Next service date	-8	
Operation data	~10	
Error display	√12	
Saving IU settings	~ 17	
	Next & Back	Previous

Back Select the item

(5)(6) Service & maintenance menus are displayed.



(7) IU address

IU address, name of IU and OU address of the units connected to the R/C are displayed.

When 8 or more units are connected, further data are displayed on the next page. When the [Check] button is tapped after selecting an IU address, the fan of the selected IU can be operated . (Available only with Main)

(8) Next service date (9) Service message

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 [No setting] button is tapped, messages are not displayed.



1 Operation data, IU select			
000	OO 1	OO2	OO3
WEST01	WEST02	WEST03	WEST04
004	OO5	OO6	OO7
EAST01	EAST02	EAST03	EAST04
Select an		Next	Back

(1) Operation date	_	edate
Operation data		_
Iten	Data	Disp.
Ol Operation mode	Cooling	1
02 Set temp	28°C	1
03 Return air temp	26°C	1
04 R/C temp	29°C	
05 IU heat exch. temp 1	10°C	
Display Select 3 items for display		Back splay].

10 Operation data, IU select

If plural IUs are connected to the R/C, select the IU to be displayed. If only one IU is connected, the IU select screen is not displayed.

(1) Operation data

After read the indoor unit data, the operation data at the time of reading are displayed. (Operation data are not updated automatically.) Tapping the [Update] button to update the data.

If it is necessary to update the data and display automatically, 3 items to be updated

automatically can be selected. (3 items must be selected.) When the [Display] button is tapped after selecting 3 items, the display changes to

When the [Display] button is tapped after selecting 3 items, the display changes to the Individual display screen.

Error display	
Error history	√13
Display anomaly data	-14
Erase anonaly data	√15
Reset periodical check	-(16)

12 Error display

Error history and data at occurrence of error saved in the R/C are displayed.

- (a) Error history→(3)
- (b) Display anomaly data→14
- (c) Erase anomaly data→15
- (d) Reset periodical check→16

13 Error h	nistory		
Error history	1		Delete
Time		IU	ErrorCode
19/01/2011	6:57PM	014	E16
19/01/2011	6:57PM	015	E15
19/01/2011	6:57PM	012	E14
19/01/2011	6:57PM	013	E13
19/01/2011	6:57PM	010	E12
19/01/2011	6:57PM	011	E11
19/01/2011	6:57PM	800	E10
		Next	Back

13 Error history

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

If none is recorded in the error history, no error is displayed.

(1) Display anomaly data			
Display anomaly data			
IU 000 ErrorCode E	09 00		
Iten	Data		
01 Operation mode	Cooling		
02 Set temp	28°C		
OS Return air temp	26°C		
05 IU heat exch. temp 1	10°C		
06 IU heat exch. temp 2	10°C		
	Next Back		

(4) Display anomaly data

Operation data taken just before the occurrence of error are displayed.

15 Erase anomaly	data
Erase anomaly data	
Yes	
Select the item.	Back

(15) Erase anomaly data

When tapping the [Yes] button on the Erase anomaly data acknowledge screen, the anomaly data are erased.

(6) Reset periodical check
Reset periodical check
Do you want to reset the periodical check?
Yes
If yes, tap [Yes].

16 Reset periodical check

When tapping the [Yes] button on the Reset periodical check acknowledge screen, the periodical check is reset and the time count is reset.

③ Saving IU settings	
Savins IU settinss	
Save IU settings	
Automatic saving	
Transfer the saved data	
Select the item.	Back

1 Saving IU settings

Contents of setting for IU are saved in the R/C or transmitted to IU. (a) Save IU settings

(a) Save IO settings (b) Automatic saving

(~)	/ 10/10/11/01			
(C)	Transfer	the	saved	data

Erase IU address	
CPU reset	
Restore of default setting	
Touch panel calibration	

(B) Special settings

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).

Initializing: 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.

OPERATION

Refer to the "User's manual" (in CD-R) for details.

Contents

1. Safety Precautions	19
2. Functions and menu items of Remote control (R/C)	20
3. Menu items	22
3.1 Basic operation	22
3.2 Energy-saving settings	25
3.3 Individual flap control	27
3.4 Initial settings	28
3.5 Timer	29
3.6 Weekly timer	31
3.7 Select the language	32
4. Maintenance &After-sale service	32
4.1 Method of the filter sign reset	32
4.2 Maintenance of Unit and LCD	33
4.3 Error display	33
4.4 Notice of inspection date	33
4.5 After-sale service	33

1. Safety precautions

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.

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

The following pictograms are used in the text.

\bigcirc	Never do.	Always follow the instructions given.
ļ	Be sure to ground the unit.	Absolutely keep wet hands away.
	Absolutely keep water 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 and the "Installation Manual" (in CD-R) should be given to a new owner.

Electrical wiring work must be implemented only by qualified specialists.

<u>∧</u> 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.	0	Do not use or let use the unit or remote control as play equipment. Improper operations could cause ill health or health disorder.	\bigcirc
Consult your dealer when moving, disassembling or repairing the unit. Never modify the unit. Improper handling may result in injury, electric shocks, fire, etc.	0	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.	\bigcirc
Take care to protect terminal connections from external forces or stress caused by wiring.		Do not wash the remote control with water or liquid. It could cause electric shocks, fire or break-down.	Ì
Improper connection or fixing could cause heat generation, smoke or fire.	U	Do not install the remote control where it may be splashed with water.	
Do not install the unit at a place where inflammable gas may generate, flow in, accumulate or leak.	\bigcirc	If water gets into the device accidentally, it could cause electric shocks or breaking electronic parts.	-
Inflammable gas could catch fire if it accumulates around the unit. Avoid using combustible substances (hair spray, insecticide, etc) near the unit.		Do not touch electric parts or operate buttons or screens with wet hands. It could cause electric shocks, fire or break-down.	
Do not use benzene or paint thinner to clean the unit. It could cause cracks, electric shocks or fire.	\bigcirc	Be sure to stop operation and shut down the circuit breaker before starting maintenance work. It could cause electric shocks or injury.	0
The unit should not be used in inappropriate environment. Using the unit at the following places could deteriorate its performance significantly or cause electric shocks, break-down, smoke or fire as a result of corrosion.		Install the remote control securely where it can be stable. Insufficient strength or improper installation could cause the remote control to drop off.	0
Where air contains dense oil mist, steam, organic solvent vapor, corrosive gas (ammonium, sulfuric compound, acid, etc) Where acidic or alkaline solution, cosmetics, special spray, etc. are used frequently		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.	0
• Where oil mist generates • Where doese cigarette smoke exists • Where dust floats in air • Where water vapor generates or heavily humid area		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.	0
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.	0	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	0
Stop operation when any anomaly is detected. If operation is continued, it could cause fire or break-down. Consult		dry cloth.	
you dealer.		Do not pull or twist the cable of the remote control. It could cause break-down.	0
		Do not tap the remote control buttons or screen with pointed objects.	0

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)



Touch panel system, which is operated by tapping the LCD screen with a finger, is employed for any operations other than the (Run/Stop, (? High power and (? Energy-saving switches.

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

* All icons are shown for the sake of explanation.



3. Menu items

Main menu		(�) It is necess	ary to input	the Administrator password for m	enu items showing.
	D		1		
	Basic operation			Run/Stop	
				Charge operation mode	
				Change set temp	
				Change flap direction	
				Change fan speed	
				Highpower operation	
				Energy-saving operation	
	Energy-saving s	ettina (🔿)		Sleep timer	
		3(\$)		Peak-cut timer	
				Automatic temp set back	
	Individual flap c	ontrol	L		
		onuoi	[_
-	Enternal ventilat	tion	ļ		
	Initial settings		L	Clock setting	28
	initial settings			Date & time display	
				Summer time.	
				Contrast	
				Backlight	
				Controller sound	
				Controller sound	
	 Timer setting 		L	Set ON timer by hour	
			' <u> </u>	Set OFF timer by hour	
				Set ON timer by clock	
				Set OFF timer by clock	
				Confirm	
	M/		1		
	Weekly timer				
	Home leave mo	de (�)			Refer to User's manual
	 Administrator set 	ettings (<>)		Permission/Prohibition setting	Refer to User's manual
			' <u> </u>	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
	Select the langu	lade			
	Installation setti		1	Befe	er to Installation manual
		ings			
	R/C settings		 		er to Installation manual
	IU settings			Refe	
	Service & Maint	enance	<u> </u>	Method of the filter sign reset	
			·	Maintenance of Unit and LCD	
				Contact company & Error display .	
				Notice of inspection date	
			L	After-sale service	



1 Run

Push the 🖒 switch.

Operation lamp (green) lights and operation starts.



2 Stop

Push the 🖒 switch.

The operation lamp turns off and the operation stops.

6:11PM(Ned)	Menu
Now stopping. Tap the panel for change	e.

When the operation stops, all operation buttons on the screen turn off. When the set lighting time of backlight (139 page 29) 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". (#page 39)
 - The unit starts to operate initially with the following settings after the power on. These settings can be changed as desired. Operation mode ... With auto mode: Auto cooling
 - Without auto mode: Cooling
 - Set temp 23 0°C
 - ... High Fan sneed
 - Flap position .. Level

In the following cases, a message "Operation mode invalid" is displayed and it changes to the fan operation, because operation modes are not matched.

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



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.

3 When the operation mode is selected, 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

6:53PW(Ved)		Nenu
Coolins S Timer O	Set temp 23.0%	Direction
	for running.	

Tap the 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.
- 4 The display returns to the TOP screen after tapping the Set button.

For allowable temperature setting ranges, refer to the range setting of set temp (== page 45).

- Reference set temp
 - Cooling ... 26 to 28°C Dry
 - ... 24 to 26°C
 - Heating ... 20 to 24°C
 - ... Setting temp is not required. Fan
- If the Auto is selected for the set temp, the set temp display shows "0". Temperature can be selected within the range of -6°C to +6°C with using buttons. Temperature increases by 1°C at each tap on the A button or decreases by 1°C at each tap on the 💌 button.
- (If "0" is set, it becomes 24°C for the cooling operation or 26°C for the heating operation.) 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



Tap the Change flap direction button on the TOP screen.



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

To swing the flap, tap the Auto swing button. To fix the flap position, tap one of 1 to 4 buttons.

3 After selecting the flap direction, the display returns to the TOP screen. 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.)
- When the Ind. flap control button is tapped, the flap motion range (upper or lower limit position) at each air outlet can be set. (== page 23)



Do not move the flap forcibly by hands. It could damage the flap. 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 FDE)

Change fan speed



Tap the Change fan speed button on the TOP screen.



- 2 When the Change 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 <u>Auto</u> is selected, the fan speed is changed automatically depending on the capacity.

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.



- Push the **Sec** switch to start the high power operation.
- Operation will start when the switch is pushed, even if dy switch is off.



- 2 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.
- 3 One more push on the switch terminates the high power operation. Then it returns to normal operation. Pushing the b switch stops the operation.
- The high power operation is terminated also when the operation mode, set temp or fan speed is changed.

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.



- Push the Provide the energysaving operation.
- The operation will start when the P switch is pushed, even if b switch is off.



2 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.

— 23 —

3 One more push on the *P* switch, terminates the energy-saving operation, and it changes to the normal operation.

Pushing the 🕁 switch stops the operation.

- Set temp cannot be changed during the energy-saving operation. If it is attempted, a message "Invalid request" is displayed on the screen.
- Energy-saving operation is operable only when the cooling, heating or auto is selected for the operation mode. If the *P* switch is pushed in any operation mode other than the cooling, heating or auto mode, the message "Invalid request" is displayed on the R/C screen.
- Energy-saving operation is terminated also when the operation mode is changed.

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 S is displayed on the R/C screen.

	Main	Sub
Basic operation	0	0
High power operation	0	0
Energy-saving operation	0	0
Energy-saving setting	0	
Individual flap control	0	
External ventilation	0	0
Filter sign reset	0	0
Initial settings	0	0
Timer	0	0 *1
Weekly timer	0	
Home leave mode	0	
Administrator settings	0	* 2
Installation settings	0	
R/C settings	0	* 3
IU settings	0	
Service & Maintenance	0	* 4
Select the language	0	0
Error display & Error display	0	0

*1 Warming up function cannot be set

- R/C display setting, Set temp display and Change administrator password can be set.
 Main/Sub of R/Cs can be set.
- *4 IU address, Error display, Error history, Reset periodical check, CPU reset and Touch panel Calibration can be

Operations on menu screens



Tap the Menu button on the TOP screen

Enersy-saving setti	ins
Individual flap cont	trol
External ventilatio	n
Filter sign reset	
Initial settings	
Select the item.	Next Back

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

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

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

Next		ack A
	Next	Next B

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



5 When the Set button is displayed on the setting screen for each item, tapping this button to confirm the setting



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

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

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

Note

For the administrator password at the factory setting, refer to the Installation Manual (consult your dealer). When your administrator password is forgotten, initialize the password by referring to the Installation Manual (consult your dealer).

Cautions for each setting screen

the following buttons or switches.

- Return to Main screen ... Menu button
- Return to the last previous screen ... Back button
- Return to TOP screen ... () 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 🖒 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.
- When returning to the screen mentioned below from each setting screen, operate 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 O 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.
 - Energy-saving setting Administrator setting

-24 -

Energy-saving settings (Administrator password)



Energy-saving setting Individual flap control External ventilation Filter sign reset Initial settings Next Back Select the iten.

Tap the Menu button on the TOP screen.å

2 Tap the "Energy-saving setting" on the main menu screen.

Always stop the air conditioner with the 👌 switch before starting the energy-saving operation. If the "Energy-saving setting" is tapped while the air conditioner is operating, the message "Invalid request" is displayed.



- 4 When the Energy-saving setting screen is displayed, select a desired item.
- Sleep timer
- Peak-cut timer
- Automatic temp set back



3 When the Input password screen is displayed, enter the administrator password.

After entering the administrator password (4-digit number), tap the Set button.

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

Note

For the administrator password at the factory setting, refer to the Installation Manual (consult your dealer). When your administrator password is forgotten, initialize the password by referring to the Installation Manual (consult your dealer).

Sleep timer

Note



- If the "Sleep timer" is tapped on the Energy-saving setting menu screen, contents of current setting are 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".
- If the "State Enable" is selected, operation stops at the set time every time.

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

Advice

When the peak-cut timer is used, be sure to make the Clock setting in advance (= page 27).
 The peak-cut timer control may not be performed depending on combination of IU and OU.



- 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 (1974)
 - ③ All days : Monday Sunday
 - ④ Each day : Moves to the day of the week setting screen. (1972)
- 2 If a desired day of the week ① is tapped on the display, contents of current setting for the day are displayed. (☞ 5)



For the holiday setting, tap the block ② under a day to switch between " D" (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".



Screen to check contents of current setting is displayed. When the contents are changed or new setting is added, ① select a setting line No. and ② tap the 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. (IFT)
 - 3 If the Peak-cut button is tapped, the peak-cut % can be set. (#9)



Set the peak-cut %

Set the peak-cut % with the • huttons

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. (IP 10)





7 Set the Start time.

Peak-cut tiner

State

Peak-cut 80%

Select the item

displayed.

Set the hour and minute with the buttons. Setting time can be set at 5-min intervals Tap the Set button after the setting. (1988)



8 Set the End time.

Set the hour and minute with the ▼ buttons. The 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)

Peak-cut timer State Start time End time Peak-cut 8:00PM 1 Enable 7:00PM 40% 2 Disable 7:00AH 8:00AM 3 Disable Change Enter_{el} Back. Select a li e & tai ("Appanse]

- 12 Display a day of the week setting content check screen. (1985)
 - 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: (1-④Each day) Save the setting and move to a day of the week selection screen (1272)

- confirmed and a day of the week setting content check screen (1985) is displayed.

Stort tim

End tim

7:004H

8:00AM

1 O The setting content check screen (1076) is

If the Set button is tapped, the contents are

Change

Back Set

- If the settings are corrected or added further within the same day, repeat the setting. (1975)
- When contents of the setting are duplicated, the priority is given to the set contents of smaller peak-cut %

1 3 Display the group setting acknowledge screen.

Tap the YES to save the setting.

The display changes to a day of the week setting check screen after the saving. (1883)

14 When making the setting after changing a day of the week, repeat the setting from the step 2.

Automatic temp set back

Note

It is not economical to cool too much during the cooling operation. If it is set back to a relatively higher set temp when the temperature has been closed to an appropriate level, the eco operation will be realized. It is not economical to heat too much during the heating operation. If it is set back to a relatively lower set temp when the temperature has been closed to an appropriate level, the eco operation will be realized.

Setting in cooling	
Setting in heating (100)	



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

Tap the "Setting in cooling" when setting for the cooling operation or the "Setting in heating" when setting for the heating operation.

The Setting in the 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.

Individual flap setting

Motion range (upper and lower limit positions) of the flap at each air outlet can be set at a desired range individually.

When the R/C is set as the sub R/C, the individual flap control cannot be set. When changing contents of the individual flap control, stop the air conditioner.



Tap the Menu button on the TOP screen, and select the "Individual flap control", or tap the Change flap Direction button on the TOP menu and the "change flap direction" screen is displayed.



administrator password (4-digit number). When the password is unknown or wrong, the setting cannot be changed.

There are cases that the Input password screen is displayed when the Permission/Prohibition setting is "Prohibition" (ser page 42).

Tap the Set button after entering the

For the administrator password at the factory setting, refer to the

When your administrator password is forgotten, initialize the

2 When the Input password screen is displayed, enter the administrator password.

When only one IU is connected to one R/C, go to the step ${\boldsymbol 4}$.

When two or more IUs are connected to one R/C, go to the step $\ensuremath{\mathfrak{S}}$.





- 5 When the air conditioner is operating, the acknowledge screen to stop operation is displayed. Tap the Yes to stop the air conditioner.
- When the air conditioner is operating, the "Individual flap control" cannot be changed. To stop the air conditioner, push the Δ switch or reset the "Individual flap control setting" with the Back button.



- File 0 Suns, race
- 6 Select one of the upper limit positions from 1~ 6 for the range of flap motion.

Selected upper limit position is displayed on the screen.

Tap the Set button after the setting.

8 Acknowledge screen for the range of flap motion is displayed. Tap the Yes button if there is

no change on the setting. If there is any change, tap the Back button.







3 When two or more IUs are connected to one R/C, an IU list is displayed. Tap the IU No. to be set.

The IU select screen shows up to 8 units. When 9 or more units are connected, the 9th and later units are displayed by tapping the $\boxed{\text{Next}}$ button.



When there is only one outlet flap such as the FDK type, only the flap is displayed. (The same applies also to the FDE type.)



7 Select one of the lower limit positions from $1 \sim 6$ for the range of flap motion.

Range of flap motion based on the upper and lower limit positions which are selected at the last action is displayed on the screen.

Tap the Set button after the setting.

9 Acknowledge screen for the completion of setting is displayed.

When changing the range of flap motion for other air outlet is desired, tap the Yes button. ($^{\ensuremath{\mbox{\tiny VFM}}}$)

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

D password by referring to the Installation Manual (consult your deaker).

Installation Manual (consult your dealer).

 Select the No. of air outlet of which the flap motion range is changed.

Note

When there are two or more air outlets such as the FDT type and the air outlet to be set cannot be identified, set the upper and lower limit positions of any flap provisionally. When the setting is confirmed, the flap at the set air outlet moves once to the lower limit position so that the air outlet position can be identified. After checking the air outlet position in this way, select the air outlet ho. to be set.



Pipe side

Drain

Air outlet No. [In case of FDT] o olde

External ventilation



Tap the Menu button on the TOP screen.

	\$
Individual flap contro	ol
External ventilation	ĥ
Filter sign reset	100
Initial settings	

- 2 Tap the "External ventilation" on the main menu screen.
- The ventilation operation is enabled in case that the External ventilation is set "Independent".
- In case that the External ventilation is set "Disable" or "Interlocking", the ventilation operation is disable. For details, refer to Installation manual.



- 3 The External ventilation screen is displayed. If the Venti. On button is taped, 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.

Initial settings



Tap the Menu button on the TOP screen.

Clock setting



Tap the "Clock setting" on the Initial settings menu screen. Set the "dd/mm/yy" with the A buttons. Tap the Time button after the setting

Date & time display

Date & time	ON	OFF
A day of the week	ON D	OFF
Display method	12H	24H
	The	

- Tap the "Date & time display" on the Initial settings menu screen.
 - T ap ON/OFF for the Date and time.
 - T ap ON/OFF for A day of the week.
 - ⊤ ap Display method "12H or 24H".
 - 12 Hours ... If it is 3.50 PM, it displays "3:50PM". 24 Hours ... If it is 3:50 PM, it displays "15:50".
- 2 After setting each item, tap the Set button.



2 Tap the "Initial settings" on the main menu screen.

Initial settings	Initial settings
Clock setting	Controller sound
Date & time display	
Summer time	
Contrast	
Backlight	
Next Back	Previous Back
Select the item.	Select the item.

3 When the "Initial settings" menu screen is displayed, tap a desired item. Clock setting Contrast

Peak-cut timer

· Weekly timer

· Silent mode timer

- Date & time display Backlight Summer time
 - Controller sound

The "clock setting" is necessary for the following settings.

· Set ON timer by clock, Set OFF timer by clock

· Filter sign reset, Setting next cleaning date



2 Set the "hour : minute" with the • buttons on the clock setting screen. Tap the Set button after the setting To change the "dd/mm/yy", tap the Date button.

Summer time



- Tap the "Summer time" on the Initial settings menu screen.
 - () hanging from "Disable" to "Enable"... (Current time + 1 hr) is displayed.
 - C hanging from "Enable" to "Disable"... (Current time - 1 hr) is displayed.

Contrast



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.

2 Tap the Set button after the setting.

Backlight



- Tap the "Backlight" on the Initial settings menu screen, Tap the ON or OFF 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.
- 2 Tap the Set button after the setting.

Controller sound

Controller sound	
OFF	
Select the item.	Back

- Tap the "Controller sound" on the Initial settings menu screen, 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.

Timer

Note The Clock setting (## page 27) must be made when the Set ON timer by clock or Set OFF timer by clock is used. 1 Tap the Timer button on the TOP screen or Nenu Nenu tap the Menu button on the TOP screen, and 6:52PW/Ved Nenu₄ 6:52PM(Ved select the "Timer" on the main menu screen. Coolins Set tem Veekly time Coolins an Set tem an Home leave moo 23.0° **23.0**° Time (-) 52 Administrator settings Timer 52 - 11 Installation settings 11 Nov st Previous Next Back nv sto for chante Select the iter 2 Tap a desired item on the Timer menu. Operation of each time ①Set ON timer by hour When the set time elapses, the air conditioner starts. Set ON timer by hour Tiner Operating conditions at the start of operation can be set. Set OFF timer by hour Set ON timer by hour Operation takes place once at each setting Set ON timer by clock Set OFF timer by hour 2 Set OFF timer by hour When the set time elapses, the air conditioner stops, Set OFF timer by clock Operation takes place once at each setting. Set ON timer by clock Confirm The air conditioner starts at the set time. 3 Set ON timer by clock Set OFF timer by clock Operating conditions at the start of operation can be set. When the timer is set, the Confirm button is Back Confirm Only one day (Once) operation or operation Everyday can be set. displayed Select the item ④Set OFF timer by clock The air conditioner stops at the set time. The button is not displayed unless the timer is set. Only one day (Once) operation or operation Everyday can be set Setting of each timer can be combined. Allowable combination settings are as shown below.

Allowable combination setting (O: Allowed, X: Prohibited)

	Sleep	OFF: Hours	ON: Hours	OFF: Clock	ON: Clock	Weekly
Sleep		×	×	0	0	0
OFF: Hours	×	/	×	×	×	×
ON: Hours	×	×		×	×	×
OFF: Clock	0	×	×		0	×
ON: Clock	0	×	×	0		×
Weekly	0	×	×	×	×	

- only dire bay (Melle) operation to operation to retrain a use set ■Priority order of the timer settings (①→③) is as follows. ①Set 0FF timer by hour/clock, weekly 0FF timer ③Set 00 Himer b hour/clock, weekly 0N timer
- (3)Set UN timer by hour/clock, weekly UN 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.

If a prohibited combination setting is made, a message "This combination cannot be accepted" is displayed for 3 seconds.

Set ON timer by hour



When the "Set ON timer by hour" is tapped on the timer setting menu screen, 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
- Set UN there by now

 Details

 Barsing up (N)

 23 co (Select the item to change.
 - 4 Set the following operating conditions. ① Warming up ON/OFF (the Main R/C only) ② Operation mode ... To 5 ③ Set temp ... To 6 ④ Fan speed ... To 7

Warming up setting can be made with the main R/C only. Set the operation mode before setting the set temperature.

Note 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 0N, 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 0N 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) If the No setting button is tapped, "--°C" is displayed, and it operates at the last action.



7 Tap a desired fan speed.

If the No setting button is tapped, it operates at the last action. (IFF 4)

8 After setting the desired contents at the screen of the step 4

on the previous page, tap the <u>Set</u> button. Operation will start at set hours later.

Set OFF timer by hour



- Tap the "Set OFF timer by hour" on the timer setting menu screen.
- 2 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.

Select each setting referring to the steps $\mathbf{4}$ to $\mathbf{7}$ of the Set ON timer by hour setting. Tap the Set button after the setting.

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



- Tap the "Set OFF timer by clock" on the timer setting menu screen.
- 2 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".

Set ON timer by clock



- Tap the "Set ON timer by clock" on the timer setting menu screen.
- 2 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.

Confirm



Tap the Confirm button on the timer setting menu Screen

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

Weekly timer

Note



Tap the Menu button on the TOP screen



- 4 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 (127)
 - ③ All days : Monday Sunday
 - 4 Each day : Moves to the day of the week setting screen. (#5)



2 Tap the "Weekly timer" on the main menu screen



3 When the Input password screen is displayed, enter the administrator password.



- There are cases that the Input password screen is displayed by the Permission/Prohibition setting. (IP page 43).
 - Tap the Set button after entering the administrator password (4-digit number). If the password is unknown or wrong, the
 - setting cannot be changed

Note

For the administrator password at factory setting, refer to the Installation Manual (consult your dealer). When your administrator password is forgotten, initialize the password by referring to the Installation Manual (consult your dealer).

- To enable the timer on the day set as holiday, it is necessary to reset the holiday setting.
 - If ③ "All Disable" is tapped, the timer does not operate on all days of the week.

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

- 5 When a desired day of the week 1 is tapped on the display, contents of current setting for the day are displayed. (BP7)
- **6** For the holiday setting, tap the block (2) under the day to switch between " \mathcal{D} " (the holiday setting) and "(Blank)" (reset).

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

	ekly ti ekdavs	1611				
-	State	Туре	Tine	Node	Fan	Tenp
1	Engole	ON J	11:00M	恭	att	23°C
2	Enthe	ON	0:00AM			
3	E/~~)	OFF	0:004M			
4	En Ó	ON J	0:00AM	Ø	Auto	Auto
L L	Change lect a l	Ent ine &	er DufChan	Next sel.		lack
		_	Ø			

7 Screen to check contents of current setting is 8 Detail setting screen for the timer setting contents is displayed. displayed.

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



10 Tap a desired operation mode.

When the No setting button is tapped, it operates with the same operation mode at the last action. (# 9)



- (1) Tap the State button to switch between "State Enable"
- and "State Disable" ②Tap 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. (100 9)



1 Select a desired temperature (at 1°C intervals) with 12 the 🔺 🔻 buttons. Or tap the Auto button to select the Auto temp setting.

Tap the Set button after the selection. (** 9)

When the No setting button is tapped, "--°C" is displayed, and it starts operation at the last setting temperature.



9 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 ... To 10
- ... To 11 3 Set temp ... To 12
- ④ Fan speed

Set the operation mode before setting the set temperature.



Tap a desired fan speed.

When the No setting button is tapped, starts operation at the last fan speed. (** 9)

13 After setting desired contents at the screen of the step 9, tap the Set button.

ų,	ekdays					
	State	Туре	Tine	Node	Fan	Tenp
	Enable		11:00AM	蓉	att	23°C
	Enaiole		0:004M			
3	Enable	OFF	0:004M			
4	Enable	CN J	0:00AM	Q	Auto	Auto

save the setting and move to a day of the week selection screen. (197 5)

- Veekly time To you sant to apply group setting? Yes Back
- 15 Display the group setting acknowledge screen.

Tap the Yes and save the setting. The display changes to a day of the week setting check screen after saving.

16 When making the setting after changing a day of the week, repeat the setting from the step 5.

Select the language

14 Display the setting contents check screen (1977)

Move to the group setting screen. (** 15)

1 In case of group setting (Weekdays, Sat/Sun, All days setting)

2 n case of the individual setting (Each day setting)

To register the setting, tap the Enter button.

Select the language to be displayed on the R/C

6:52PW(Ved) Coolins % Timer ©	Set temp 23.0'c	Menu Direct
Now stopping		
lap the pane	l for change.	
Tap the	Menu butto	n on the TOP

Tap the Menu button on the TOP screen.

Select the language	
English	
Set Select the language	Back
Detect die tanbuase	

RC function settings RC function settings Service & Waintenance Select the Language Contact conserv Previous Select the item. Back

2 Tap the "Select the language" on the main menu screen.

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



3 When the Input password screen is displayed, enter the administrator password. There are cases that the Input password screen is displayed by the Permission/Prohibition setting (== page 43).

Tap the Set button after entering the administrator password (4-digit number).

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

Note

 For the administrator password at facory setting, refer to the Installation Manua (consult your dealer).

When your administrator password is forgotten, initialize the password by referring to the Installation Manual (consult your dealer).

4. Maintenance and After-sale service

Method of the filter sign reset

In order to announce the time for cleaning of the air filter, the message of "Filter cleaning" is displayed when the cumulative operation time of the IU reaches the preset time. After cleaning the air filter, erase the message "Filter cleaning" displayed.





Enersy-saving sett	tins
Individual flap con	ntrol
External ventilati	on
Filter sign reset	ĥ
Initial settings	100
	Next Back
Select the item	

3 The reset acknowledge screen is displayed. Tap the Yes button. Not to reset, tap the Back button

Reset	A
Settin≲ next cleanin	s date 100
	-



- Tap the "Filter sign reset" on the main menu screen.
- 2 The filter sign reset menu screen is displayed.

To reset the filter sign, tap the "Reset". (IPP 3)

To set next cleaning date, tap the "Setting next cleaning date".

4 The Setting next cleaning date screen is displayed. Select a desired date with the

Select a desired date with the buttons and tap the Set button.

The message of "Filter cleaning" will be displayed on the set date.

Note

 \cdot When setting next cleaning date, the Clock setting must be made.

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.

Request

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

Warning



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

∧Caution

Do not wash the remote control.

Doing so may cause electric leakage and result in electric shocks or fire.

Be sure to stop the operation of the air conditioner and turn off the power supply breaker at the time of maintenance.

Failure to do so may result in electric shocks or injury.

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.



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

Tap the Menu button.

When the Normal display and Error display button is displayed, tap the Error display button.

Error display Code IU DU E07 000 WEST01 E08 001 WEST02	
E08 001 WEST02	
E09 002 WEST03 E40 003 WEST04 00	
R/C : Normal	
Sele ten.	

Nenu		
R/C function settings		
IV settings		
Service & Maintenance		
Select the language		
Contact company	6	
Previous Select the item.	B	Back

2 Contents of error are displayed.

After checking the error contents (Code), tap the Contact button. Or tap the Normal display button on the previous screen and select the "Contact company" on the menu screen and tap it.

Tap the "Contact company" on the main menu screen.



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

Bank

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 begining of the month which includes the set date. When this screen is displayed, contact your dealer.

Usage time 1 veers & 9 monthes Nert check 10/2011 Commann Phone No.	Usage time 12 veers & 9 months Next check 10/2011 Company Phone Mo. It's the end of a product's life. Please wake an inspection.	V d V
--	---	-------------

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 are and other targets.
- •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.

▲Warning

Do not disassemble, modify, or repair the unit by yourself. Doing so may result in electric shocks or fire. Consult your dealer.

Do not move or reinstall the remote control by yourself. Improper installation may result in electric shocks or fire. (Consult your dealer.



AIR-CONDITIONING & REFRIGERATION SYSTEMS HEADQUARTERS

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