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1. Safety precautions

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

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

**CAUTION**  Failure to follow these instructions properly may cause injury or property damage.

It could have serious consequences depending on the circumstances.

- The following pictograms are used in the text:
  - Never do.
  - Always follow the instructions given.

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

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
</table>
| • Consult your dealer or a professional contractor to install the unit.  
Improper installation made on your own may cause electric shocks, fire or dropping of the unit. |
| • Installation work should be performed properly according to this installation manual.  
Improper installation work may result in electric shocks, fire or break-down. |
| • Be sure to use accessories and specified parts for installation work.  
Use of unspecified parts may result in drop, fire or electric shocks. |
| • Install the unit properly to a place with sufficient strength to hold the weight.  
If the place is not strong enough, the unit may drop and cause injury. |
| • Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.  
Power source with insufficient and improper work can cause electric shock and fire. |
| • Shut OFF the main power supply before starting electrical work.  
Otherwise, it could result in electric shocks, break-down or malfunction. |
| • Do not modify the unit.  
It could cause electric shocks, fire, or break-down. |
| • Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit.  
Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury. |
| • Do not install the unit in appropriate environment or where inflammable gas could generate, flow in, accumulate or leak.  
If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor, corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline solution, special spray, etc. are used, it could cause electric shocks, break-down, smoke or fire as a result of significant deterioration of its performance or corrosion. |
| • Do not install the unit where water vapor is generated excessively or condensation occurs.  
It could cause electric shocks, fire, or break-down. |
| • Do not use the unit in a place where it gets wet, such as laundry room.  
It could cause electric shocks, fire, or break-down. |
| • Do not operate the unit with wet hands.  
It could cause electric shocks. |
| • Do not wash the unit with water.  
It could cause electric shocks, fire, or break-down. |
| • Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.  
Improper connections or fixing could cause heat generation, fire, etc. |
| • Seal the inlet hole for remote control cable with putty.  
If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.  
If dew or water enters the unit, it may cause screen display anomalies. |
WARNING

- When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.
  It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc.
  The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.

- Do not leave the remote control with its upper case removed.
  If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

CAUTION

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

- To connect to a personal computer via USB, use the dedicated software.
  Do not connect other USB devices and the remote controller at the same time.
  It could cause malfunction or break-down of the remote controller/personal computer.

2. Accessories & Prepare on site

Following parts are provided.

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

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

<table>
<thead>
<tr>
<th>Item name</th>
<th>Q'ty</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch box&lt;br&gt;For 1 piece or 2 pieces (JIS C8340 or equivalent)</td>
<td>1</td>
<td>These are not required when installing directly on a wall.</td>
</tr>
<tr>
<td>Thin wall steel pipe for electric appliance directly on a wall.&lt;br&gt;(JIS C8305 or equivalent)</td>
<td>As required</td>
<td></td>
</tr>
<tr>
<td>Lock nut, bushing (JIS C8330 or equivalent)</td>
<td>As required</td>
<td></td>
</tr>
<tr>
<td>Lacing (JIS C8425 or equivalent)</td>
<td>As required</td>
<td>Necessary to run R/C cable on the wall.</td>
</tr>
<tr>
<td>Putty</td>
<td>Suitably</td>
<td>For sealing gaps</td>
</tr>
<tr>
<td>Molly anchor</td>
<td>As required</td>
<td></td>
</tr>
<tr>
<td>R/C cable (0.3 mm² x 2 pcs)</td>
<td>As required</td>
<td>See right table when longer than 100 m</td>
</tr>
</tbody>
</table>

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 mm² x 2-core |
| 300m     | 0.75 mm² x 2-core |
| 400m     | 1.25 mm² x 2-core |
| 600m     | 2.0 mm² x 2-core |
3. Installation place

Secure the installation space shown in the figure. For the installation method, “embedding wiring” or “exposing wiring” can be selected. For the wiring direction, “Backward”, “Upper center” or “Upper left” can be selected. Determine the installation place in consideration of the installation method and wiring direction.

4. Installation procedure

Perform installation and wiring work for the remote controller according to the following procedure.
Dimensions (Viewed from front)

To disassemble the R/C case into the upper and lower pieces after assembling them once
- Insert the tip of flat head screwdriver or the like in the recess at the lower part of R/C and twist it lightly to remove. It is recommended that the tip of the screwdriver be wrapped with tape to avoid damaging the case.
- Take care to protect the removed upper case from moisture or dust.

In case of embedding wiring
(When the wiring is retrieved “Backward”)
1. Embed the switch box and the R/C wires beforehand.
   Seal the inlet hole for the R/C wiring with putty.
② When wires are passed through the bottom case, fix the bottom case at 2 places on the switch box.

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

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

**Cautions for wire connection**

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

Tighten by hand (0.7 N·m or less) the wire connection.

If the wire is connected using an electric driver, it may cause failure or deformation.

**In case of exposing wiring**

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

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

When taking the wiring out from the upper center, open a hole before separating the upper and bottom cases. This will reduce risk of damaging the PCB and facilitate subsequent work.

When taking the wiring out from the upper left, take care not to damage the PCB and not to leave any chips of cut thin wall inside.

② Fix the bottom R/C case on a flat surface with two wood screws.

③ In case of the upper center, pass the wiring behind the bottom case. (Hatched section)

④ Connect wires from X and Y terminals of R/C to X and Y terminals of indoor unit. R/C wires (X, Y) have no polarity. Fix wires such that the wires will run around the terminal screws on the top case of R/C.

⑤ Install the top case with care not to pinch wires of R/C.

⑥ Seal the area cut in ① with putty.
5. Main/Sub setting when more than one remote controls are used

Up to two units of R/C can be used at the maximum for 1 indoor unit or 1 group.
One is main R/C and the other is sub R/C.
Operating range is different depending on the main or sub R/C.

```
<table>
<thead>
<tr>
<th>R/C operations</th>
<th>Main</th>
<th>Sub</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run/Stop</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Change set temp.</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Change flap direction, Auto swing, Change fan speed operations</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>High power operation, Energy-saving operation</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Silent mode control</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Useful functions</td>
<td>Individual flap control</td>
<td>○</td>
</tr>
<tr>
<td></td>
<td>Anti-draft setting</td>
<td>○</td>
</tr>
<tr>
<td>Timer</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Favorite setting</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Weekly timer</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Home leave mode</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>External ventilation</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Select the language</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Silent mode control</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Energy-saving setting</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>Filter</td>
<td>Filter sign reset</td>
<td>○</td>
</tr>
</tbody>
</table>

User setting

<table>
<thead>
<tr>
<th>Initial settings</th>
<th>Main</th>
<th>Sub</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrator settings</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Permissa/Prohibition setting</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Outdoor unit silent mode timer</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Setting time range</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Temp increment setting</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Set temp display</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>R/C display setting</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Change administrator password</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>F1/F2 function setting</td>
<td>○</td>
<td>×</td>
</tr>
</tbody>
</table>

```

Service setting

<table>
<thead>
<tr>
<th>Installation settings</th>
<th>Main</th>
<th>Sub</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation date</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Company information</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Fault run</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Fault unit settings</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Change auto-address</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Address setting of main IU</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>R1 back-up function</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Motion sensor setting</td>
<td>○</td>
<td>×</td>
</tr>
</tbody>
</table>

RC function settings

<table>
<thead>
<tr>
<th>Main/Sub of R/C</th>
<th>Main</th>
<th>Sub</th>
</tr>
</thead>
<tbody>
<tr>
<td>Return air temp</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>R/C sensor</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>R/C sensor adjustment</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Operation mode</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>C°/°F</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>Fan speed</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>External input</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Upper/lower flap control</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>Left/right flap control</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>Ventilation setting</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>Auto restart</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>Auto temp setting</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>Auto fan speed</td>
<td>×</td>
<td>○</td>
</tr>
</tbody>
</table>

I/O settings

<table>
<thead>
<tr>
<th>I/O address</th>
<th>Main</th>
<th>Sub</th>
</tr>
</thead>
<tbody>
<tr>
<td>Next service date</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Operation data</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>Error display</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Error history</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Display/erase anomaly data</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Reset periodic check</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>Saving IO settings</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>Special</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Break I/O address</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>CPU reset</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Restores of default setting</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>Touch panel calibration</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>Indoor unit capacity display</td>
<td>×</td>
<td>○</td>
</tr>
</tbody>
</table>

Advice: Connection to personal computer

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

Advice: Initializing of password

Administrator password (for daily setting items) and service password (for installation, test run and maintenance) are used.
- The administrator password at factory default is “0000”. This setting can be changed (Refer to User’s Manual).

If the administrator password is forgotten, it can be initialized by holding down the [F1] and [F2] switches together for five seconds on the administrator password input screen.
- Service password is “9999”, which cannot be changed.

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

Advice

When connecting two or more FDT/FDTC to one R/C, unify the panel type either to a panel with anti draft function or a standard panel.
6. Functions and menu items of the remote control

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

① Run/Stop switch
One push on the button starts operation and another push stops operation.

② F1 switch ③ F2 switch
This switch starts operation that is set in F1/F2 function setting.

④ Operation lamp
This lamp lights in green (yellow-green) during operation. It changes to red (orange) if any error occurs.
Operation lamp luminance can be changed.

⑤ LCD (With backlight)
A tap on the LCD lights the backlight.
The backlight turns off automatically if there is no operation for certain period of time.
Lighting period of the backlight lighting can be changed.
If the backlight is ON setting, when the screen is tapped while the backlight is turned off, the backlight only is turned on. (Operations with switches ①, ② and ③ are excluded.)

⑥ USB port
USB connector (mini-B) allows connecting to a personal computer.
For operating methods, refer to the instruction manual attached to the software for personal computer (remote control utility software).

Note
When connecting to a personal computer, do not connect simultaneously with other USB devices.
Please be sure to connect to the computer directly, without going through a hub, etc.
Names and functions of sections on the R/C (Display)

*All icons are shown for the sake of explanation.

**TOP screen**

① Clock, Room name display
② Icon display
③ Menu button
④ Change operation mode button
⑤ Change set temp button
⑥ Change flap direction button
⑦ Change the fan speed button
⑧ Timer button
⑨ Select the language button
⑩ Zone operation button
⑪ Message display
⑫ F1, F2 switch function display
**Clock, Room name display**
Displays the current time and the room name.

**Icon display**
Each icon is displayed when one of following settings is going on.
- When the demand control is effective.
- When setting is made from the sub R/C.
- When the central control (Optional) is running.
- During the ventilation operation.
- When the Permission/Prohibition setting is made.
- When the weekly timer is set.

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

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

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

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

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

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

**Select the language button**
Select a language to be displayed on the R/C.

---

**Zone operation button**
Tap this button to go to the zone operation screen.

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

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

Main menu

Basic operation
- Run
- Stop
- Change operation mode
- Change set temp
- Change flap direction
- Change the fan speed
- Zone ON/OFF operation
- Zone name setting
- F1, F2 switch operation
- Anti draft ON/OFF operation
- High power operation
- Energy-saving operation

Useful functions
- Individual flap control
- Anti draft setting
- Timer
  - Set ON timer by hour
  - Set OFF timer by hour
  - Set ON timer by clock
  - Set OFF timer by clock
  - Confirm
- Favorite setting
- Weekly timer
- Home leave mode
- External ventilation
- Select the language
- Silent mode control

Energy-saving setting
- Sleep timer
- Peak-cut timer
- Automatic temp set back
- Motion sensor control

Filter
- Filter sign reset

User setting
- Initial settings
  - Clock setting
  - Date & time display
  - Summer time
  - Contrast
  - Backlight
  - Controller sound
  - Operation lamp luminance
- Administrator settings
  - Permission/Prohibition setting
  - Outdoor unit silent mode timer
  - Setting temp range
  - Temp increment setting
  - Set temp display
  - R/C display setting
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  - F1/F2 function setting

Please refer to User's manual.
Main menu

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- External input 2 signal ............................................. 24
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Contact company ..................................................... 31

Please refer to User's manual.
8. Power on and initial setting

Set the main and sub R/C units according to the display at the power on.
- Main/Sub setting not performed ⇒ (1)
- Main/Sub setting performed ⇒ (2)

(1) **When the main and sub are not yet set,**
①⇒② Main/sub input screen is displayed.
When tapping the [Main] or [Sub] button, initial setting starts.
If any wrong button has been tapped by mistake, the setting can be changed after the end of the initializing operation. (10. R/C function setting④)
When using two remote controllers for one IU or one group, if the first one is set for the Main, the second is set for the Sub automatically.

![Start screen](image)
![Main/sub set input](image)

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

![IU search on](image)
![IU info acquisition on](image)

The red LED will blink if communication is not established in ten minutes.
(2) When the main and sub are set

Set continue acknowledge

Do you want to save up the previous settings of R/C before power ON?

Yes  No

The screen changes to ⑧⇒⑤.

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.

Initialize acknowledge

Do you want to restore default R/C setting?

Yes  No

The screen changes to ①⇒②.

Initialize set on

R/C is initializing.

Yes  No

The screen changes to ⑥.

After the initializing, it returns to the default state.
9. Installation settings and test run

TOP screen ➔ Menu ➔ Service setting ➔ Installation settings ➔ Service password

1. Installation settings menu #1
   - Installation date
   - Company information
   - Test run
   - Duct unit settings
   - Change auto-address

2. Installation settings menu #2
   - Installation settings
     - Address setting of main IU
     - IU back-up function
     - Motion sensor setting

3. Installation date
   - Set the date.
   - Select the date with ▲▼ buttons, and tap the Set button.

4. Company information
   - Company information
     - Company
     - Phone No.

5. Enter the Company
   - Company
     - Number
     - Alphabet
   - Company information
     - Company
     - Phone No.

6. Enter the Phone No.
   - Phone No.
   - Input the phone No & tap [Set].

7. Test run
   - Test run
     - Cooling test run
     - Drain pump test run
     - Compressor Hz fixed operation
   - The selected screen is displayed.

8. Cooling test run
   - Cooling test run
     - 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.

9. Drain pump test run
   - Drain pump test run
     - Drain pump can be operated independently.

Enter the company information.

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

Enter the phone number of the company using up to 13 characters and then tap the Set button.
Static pressure adjustment:
Performs external static pressure Adjustment for the duct unit.
Zone settings: Set when performing zone control.
Zone settings reset: Resets all zone settings.

Design the duct so that the common zone equals 50% of total air flow.
If this is acceptable, tap the OK button.

Set the existence of zones 1 to 4. (Enable: Present, Disable: Not present)
Zones 1 to 3 can be set when setting common zones.

Select a Spill zone.
Zones set as spill zones will automatically open if the spill zone is closed and one or more other zone are closed.
Spill zone selection is required when there is no common zone. This screen will not be displayed if there is a common zone.

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

Set when performing zone control.
Set whether or not there is a common zone.
(Enable: Present, Disable: Not present)
A common zone is a zone in which a damper is not installed.
In case of Multi series (KX) models, the IU addresses registered with the auto-address setting method can be changed with this function. This function changes the OU address for each IU. Select an IU and, when an indoor unit is selected and the Change button is tapped, the display changes to the Change auto-address screen.

1. Tap the Set button to return to the screen and display the new address.
2. Tap the Finish button to register the new address.

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

In case of 2 sets of indoor units (2 groups) connected to one R/C, it is available to perform back-up operation with them.
1. IU rotation: Operate 2 sets of indoor units alternately at every set time of operation interval.
2. IU capacity back-up: When the temp difference between the set temp and the actual room temp is higher than the set temp diff., 2 sets of indoor units operate.
3. IU fault back-up: If one of the IU has a fault and stops, the other one starts operation. Select Enable/Disable (tapping Disable changes to Enable) and tap the Enter button to confirm the settings.

Resets all zone settings. If this is acceptable, tap the Yes button.

Design the duct so that the spill zone equals 50% of total air flow. If this is acceptable, tap the OK button.

Design the duct so that the spill zone equals 50% of total air flow.
For customers who adapt a motion sensor, please proceed the setting shown on the left and enable the indoor unit to be used to detect the activity amounts of persons. When the motion sensor is disabled, activity amounts of persons will not be detected and thus the motion sensor control (power saving and auto-off) will not be performed. For indoor units without a motion sensor, tap the Motion sensor setting to display "Invalid request".

### Back-up control restrictions

1. The back-up control is unavailable when the operation mode is "Auto". When the back-up control is set for the air conditioner that specifies "Auto" for the operation mode, the operation mode changes to "Cooling" automatically.
2. When the rotation control is set, the fault back-up control will be enabled automatically. In this case, the fault back-up control cannot be disabled alone. When the rotation operation is disabled, the fault back-up control will also be disabled.
3. When the capacity back-up control is set, the fault back-up control will be enabled automatically. In this case, the fault back-up control cannot be disabled alone. When the capacity back-up control is disabled, the fault back-up control will also be disabled.
4. It is also possible to enable the fault back-up control alone.
5. The home leave mode, warming up and external input cannot be set together with the back-up control.
6. While the rotation or fault back-up control is set, either of the two target indoor units (two groups) will operate. Both units will not operate at the same time.
7. An indoor unit having younger address will start the operation first in each control.
10. R/C function settings

Advice: It is valid when unit stops.

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

The selected screen is displayed.

④ Main/Sub of R/C

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

⑤ 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.
1. 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.
2. 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.
3. Averaged temp: Thermo. rule is applied based on the average of return air temperatures of IUs connected.

⑥ R/C sensor

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

Disable: The Indoor temp display changes to the temperature measured by the sensor at the main unit. ⇒ ⑦
Enable: The Indoor temp display changes to the temperature measured by the R/C side sensor. ⇒ ⑧
Enable(Heating only): The Indoor temp display changes to the temperature measured by the R/C side sensor during heating only.
Enable(Cooling only): The Indoor temp display changes to the temperature measured by the R/C side sensor during cooling only.
When the R/C sensor is disabled, the TOP screen displays "Room ○ °C".

When the R/C sensor is enabled, the TOP screen displays "Room (R/C) ○ °C".

You can adjust the R/C sensor detection temperature.

Adjustment in cooling
Adjustment in heating

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

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

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.

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

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

Individual This is applied only to the IU receiving CNT input.

All units This is applied to all indoor units connected.
Stop at fixed position  The upper/lower flap can be set to stop at one of four positions.
Stop at any position  The flap can be set to stop at any position immediately after operating the R/C switch.

Fixed position stop  The left/right flap can be set to stop in eight different patterns.
Stop at any position  The flap can be set to stop at any position immediately after operating the R/C switch.

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

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

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

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

Advice: It is valid when unit stops.

TOP screen  Menu  ⇒  Service setting  ⇒  IU settings  ⇒  Service password

① IU select #1

IU select  Menu

000  001  002  003
 004  005  006  007

All units  Next  Back

Select an IU address.

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

② IU select #2

IU select  Menu

008  009  010  011
 012  013  014  015

All units  Previous  Back

Select an IU address.

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

③ Loading

Loading. Wait a while.

The selected screen is displayed.

④ IU setting menu #1

IU settings

Fan speed setting  
Filter sign  
External input 1  
External input 1 signal  
External input 2  

Select the item.

⑤ IU setting menu #2

IU settings

External input 2 signal  
Heating thermo-OFF temp adjustment  
Return temperature adjustment  
Fan control in cooling thermo-OFF  
Fan control in heating thermo-OFF  

Select the item.

⑥ IU setting menu #3

IU settings

Anti-frost temp  
Anti-frost control  
Drain pump operation  
Keep fan operating after cooling is stopped  
Keep fan operating after heating is stopped  

Select the item.

⑦ IU setting menu #4

IU settings

Intermittent fan operation in heating  
Fan circulator operation  
Control pressure adjust  
Auto operation mode  
Thermo. rule setting  

Select the item.

⑧ IU setting menu #5

IU settings

Auto fan speed control  
IU overload alarm  
External output setting  

Select the item.

⑨ Fan speed setting

Fan speed setting

Standard
Setting 1
Setting 2

Select the item.

Set the fan speed tap for the IU. Refer to the engineering data for details.
Set the time to display the filter sign.

- **Filter sign**
  - **Setting 1**: 180Hr
  - **Setting 2**: 600Hr
  - **Setting 3**: 1,000Hr
  - **Setting 4**: 1,000Hr Operation stop

Set the control at the time when the signal is input to the external input 1 (CNT) of IU. Refer to the engineering data for details.

- **External input 1 #1**
  - **Run/Stop**
  - **Permission/Prohibition**
  - **Cooling/Heating**
  - **Emergency stop**
  - **Setting temperature shift**

Set the signal type to input to the external input 1 (CNT) of IU. Refer to the engineering data for details.

- **External input 1 signal**
  - **Level input**
  - **Pulse input**

This is operable when the IU equipped with the external input 2 is connected. Refer to the engineering data for details.

- **External input 2 #1**
  - **Run/Stop**
  - **Permission/Prohibition**
  - **Cooling/Heating**
  - **Emergency stop**
  - **Setting temperature shift**

- **External input 2 #2**
  - **Run/Stop**
  - **Permission/Prohibition**
  - **Cooling/Heating**
  - **Emergency stop**
  - **Setting temperature shift**

- **External input 2 signal**
  - **Level input**
  - **Pulse input**
Adjust the temperature for judging to make thermostat ON or OFF during heating operation.
Adjustable range is 0°C / +1°C / +2°C / +3°C.

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

Set the fan speed at the cooling thermo-OFF.
Low
Set fan speed
Intermittent
Stop

Set the fan speed at the heating thermo-OFF.
Low
Set fan speed
Intermittent
Stop

Select the anti-frost control temperature.
Temp Low
Temp High

Set the fan control during the anti-frost control.
Enable
Disable
Select the residual fan operation time period after stopping and the thermo-OFF in cooling mode.

No setting: Residual fan operation not performed.
Setting 1: 0.5 hours
Setting 2: 2 hours
Setting 3: 6 hours
*Residual time may vary.

Drain pump operation
- Standard (in cooling & dry)
  Operates in cooling and dry modes.
- Operate in standard & heating
  Operates in cooling, dry and heating modes.
- Operate in heating & fan
  Operates in all modes.
- Operate in standard & fan
  Operates in cooling, dry and fan modes.

Intermittent fan operation in heating
- Stop
  Stop for 20 min & run for 5 min
  Stop for 5 min & run for 5 min
  Check the operating conditions every 25 min and run the fan for 5 min.
  Stop for 5 min & run for 5 min
  Check the operating conditions every 10 min and run the fan for 5 min.

Fan circulator operation
- 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.

Control pressure adjust
- Standard
  Normal
- Type1
  When all operating IUs are in this mode, the control pressure value is changed.
The method of switching between cooling and heating in the auto operation mode can be selected from three options. Set the condition for each method.

**Auto 1**

The temp difference between the set temp and the actual room temp switch cooling and heating.

**Auto 2**

The temp difference between the set temp and the actual room temp/outdoor temp switch cooling and heating.

**Auto 3**

The actual room temp and outdoor temp switch cooling and heating.

**Auto rule selection**

Auto rule selection

Auto 1

Auto 2

Auto 3

Select the item.

---

**Auto 1 details**

Temp switching to cooling

Temp switching to heating

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

---

**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

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

---

**Auto 3 details**

Temp switching to cooling

Temp switching to heating

Outdoor temp setting to limit in cooling

Outdoor temp setting to limit in heating

Set the condition for each method.

---

**Auto rule selection**

Auto rule selection

Auto 1

Auto 2

Auto 3

Select the item.

---

**Auto 1 details**

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

⇒ Operation mode: Cooling

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

⇒ Operation mode: Heating

---

**Auto 2 details**

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

⇒ Operation mode: Cooling

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

⇒ Operation mode: Heating

---

**Auto 3 details**

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

⇒ Operation mode: Cooling

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

⇒ Operation mode: Heating

---

*◆ Switching between cooling and heating can be set after thermo-OFF at least for 5 minutes.
◆ When temp switching to cooling and temp switching to heating are set to 3 °C.*
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]”  ⇒ Operation mode: Cooling

“[Indoor temp, heating] > [Indoor return air temp]” and “[Outdoor temp, heating] > [Outdoor air temp]”  ⇒ Operation mode: Heating

The outdoor temp setting to limit in cooling is 19 °C, the outdoor temp setting to limit in heating is 20 °C, the indoor temp switching to cooling is 18 °C, and the indoor temp switching to cooling is 25 °C.

Set the outdoor temperature for cooling with Auto 2 and Auto 3. The temperature can be set within the range of 10 to 30 °C.

Set the indoor temperature for heating with Auto 3. Indoor temp, cooling: Can be set within the range of 18°C to 30°C.
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 ⇒ Medium ⇒ Low.

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

Cooling 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 + Heating offset value] during heating.
   The thermostat trips ON when [Indoor temp] < [Outdoor temp + Heating offset value].
   This value can be set in the range of 0°C to 5°C.

Heating offset

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

Thermo. rule setting

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

Standard
The thermostat judges based on the indoor temperature and set temperature.

Outdoor temp basis
The thermostat judges based on the outdoor temperature and the cooling and heating offset values.
The room temperature setting will be disabled.
When the room temperature differs to some extent from the setting temperature at 30 minutes after the start of operation, the overload alarm signal is transmitted from the external output (CNT-5).

Select the output destination to change and then select the function to be allocated to the selected output.

The following shows output connectors and defaults.

External output 1  CNT-2  Operation output
External output 2  CNT-3  Heating output
External output 3  CNT-4  Compressor ON output
External output 4  CNT-5  Inspection (Error) output

Refer to the engineering data for details.
12. Service & Maintenance

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.

Check run mode

Run: Tap this button to start the fan operation.
Stop: Tap this button to stop the fan operation.

Next service date

Set the date.

Service message

Contents are reset if the next service date is updated. If the No setting button is tapped, messages are not displayed.

Operation data #1

Operation data #2

Operation data #3

After reading the indoor unit data, the operation data at the time of reading are displayed. Tapping the Update button updates the data.
Automatically updates and displays the six selected items.

Date and time when error occurred, IU address and Error Code are displayed. Tap the [Delete] button to delete the error history.

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

The anomaly data is erased.

The time count is reset by resetting the periodical check.

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.

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

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

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

Advice Have you ever lost setting contents after replacing an IU board? When IU settings are saved in the R/C, the saved data can be written to IU using "Transfer the saved data".
The selected screen is displayed.

Use this when the display and the touch position are not matched.
Tap the center of [+] and check the deviation from the display.
Finish ⇒ Calibration is completed.

Capacities of IUs connected to the R/C are displayed.
When seven units or more are connected, tap the Next button to view all.
These items may not be displayed depending on the combination of IUs and OUs.
13. Select the language

**[Selecting the language with the ]**

Tap the button on the TOP screen while the air conditioner is stopped.

Depending on how the Permission/Prohibition setting (Refer to user's manual) is set, the administrator password input screen may be displayed.

**[Selecting the language with the ]**

The menu for select the language is displayed.

Select the language to be displayed on the R/C and tap the button.

You can select from the following languages:
English/German/French/Spanish/Italian/Dutch/Turkish/Portuguese/Russian/Polish/Japanese/Chinese