HEAD OFFICE : TOKYO BUILDING, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO100-8310, JAPAN

■ Do not install indoor units in areas (e.g., mobile phone base stations) where the emission of VOCs such as phthalate compounds and formaldehyde is known to be high as this may result in a chemical reaction.

■ Our air-conditioning equipments and heat pumps contain a fluorinated greenhouse gas, R410A.

■ When installing or relocating or servicing the air conditioners, use only the specified refrigerant (R410A) to charge the refrigerant lines. Do not mix it with any other refrigerant and do not allow air to remain in the lines. If air is mixed with the refrigerant, then it can be the cause of abnormal high pressure in the refrigerant lines, and may result in an explosion and other hazards.

The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.
Product Features

Safety precautions

Names and functions of controller components

Read before operating the controller

Controller operation: Basic operations

Navigating through the Main menu

Controller operation: Function settings

Maintenance

Initial setting

Service

Installation

System control (for Mr.Slim)

Specifications · Outline Dimensions
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"OU Silent mode" and "Refrigerant volume check" that appear on the display of the remote control do not function.
Product Features

Ideal remote controller in pursuit of easy operation, convenience, and energy saving.

EASY OPERATION

Backlit LCD (Liquid Crystal Display)
Full dot backlit LCD makes it easy to see and control units.

Feature 1
Large, easy-to-see display
Full-dot LCD display with large characters for easy viewing. Contrast also adjustable.

Feature 2
Simple button arrangement
Buttons are arranged according to usage to allow for intuitive navigation. Frequently used buttons are larger than other buttons to prevent unintended.

CONVENIENCE

Night Setback
To prevent indoor dew or excessive temperature rise, this control starts heating operation when the control object group is stopped and the room temperature drops below the preset lower limit temperature. Also, this control starts cooling operation when the control object group is stopped and the room temperature rises above the preset upper limit temperature.

ENERGY SAVING

Auto Return
This function helps to maintain the indoor temperature at the required level. Even if the temperature setting is changed during operation, the set temperature automatically returns to the originally preset temperature after certain amount of time. It is possible to set the required temperature for limited time (30-120 min. in 10-minute increments).

<Sample screens when the Auto return function is enabled>
Example: Lower the Set temp. to 24°C. 60 minutes later, the Set temp. will be back to 28°C.

The Set temp. is changed from 28°C to 24°C by a user.

60 minutes later, the Set temp. returns to 28°C automatically.
## Functions

### Basic Functions
- ON/OFF
- Operation mode switching
- Room temperature setting/display
- Fan speed setting
- Vane setting
- Louver setting
- Clock setting/display
- Filter information display

### Advanced Functions

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display mode switching</td>
<td>The main display can be displayed in two different modes: &quot;Full&quot; and &quot;Basic&quot;</td>
</tr>
</tbody>
</table>
| Error information                     | Error code, error unit, unit address, unit model, serial number, contact information (dealer’s phone number) can be displayed.  
* The unit model, serial number, and contact information need to be registered in advance to be displayed.  
* The unit address may not be displayed depending on the error type.MITTED |
| Ventilation equipment control         | Interlock settings and interlock operation settings for Lossnay units can be made.  
OFF/High/Low can be switched. |
| High power                            | The units operate at higher-than-normal capacity for up to 30 minutes.                                  |
| Auto descending panel                 | The automatic descending panel can be operated.  
* Valid only for the indoor units that are compatible with this function. |
| Timer                                 | On/Off timer: The unit automatically turns on or off at the preset time.  
* Time can be set in 5-minute increments.  
* It is possible to set only the time when the unit turns on or when the unit turns off.  
Auto-Off timer: The unit automatically stops after the preset time has elapsed.  
* Time can be set to a value from 30 to 240 in 10-minute increments. |
| Weekly timer                          | ON/OFF and temperature setting can be scheduled for each day.  
* Up to eight operation patterns can be set for each day.  
* Time can be set in 5-minute increments.  
* Not valid when the On/Off timer is enabled. |
| Energy saving                         | The start/stop times to operate the units in the energy-save mode for each day of the week, and the energy-saving rate can be set.  
* Up to four energy-save operation patterns can be set for each day.  
* Time can be set in 5-minute increments.  
* Energy-saving rate can be set to a value from 0% and 50 to 90% in 10% increments. |
| Operation lock                        | Settings including ON/OFF, Operation mode, Set temp. and Vane can be locked. |
| Temperature range restriction         | The lower limit and the upper limit of the settable temperature in each operation mode can be limited.  |
| Password                              | Administrator password (required for schedule setting) and Maintenance password (required for test run and function setting) can be set. |
| Language selection                    | Language to be displayed on the screen can be selected from eight languages: English, French, German, Spanish, Italian, Portuguese, Swedish, and Russian. |
| Contrast                              | Screen contrast can be adjusted.                                                                       |
| Manual vane angle                     | The vane angle can be set to a fixed position.  
* Valid only for the indoor units that are compatible with this function. |
Safety precautions

- Thoroughly read the following safety precautions before using the unit.
- Observe these precautions carefully to ensure safety.

**WARNING** Indicates a risk of death or serious injury.

**CAUTION** Indicates a risk of serious injury or structural damage.

- After reading this manual, pass it on to the end user to retain for future reference.
- Keep this manual for future reference and refer to it as necessary. This manual should be made available to those who repair or relocate the controller. Make sure that the manual is passed on to any future users.

### General precautions

**WARNING**

- Do not install the unit in a place where large amounts of oil, steam, organic solvents, or corrosive gases, such as sulfuric gas, are present or where acidic/alkaline solutions or sprays are used frequently. These substances can compromise the performance of the unit or cause certain components of the unit to corrode, which can result in electric shock, malfunctions, smoke, or fire.
- To reduce the risk of shorting, current leakage, electric shock, malfunctions, smoke, or fire, do not wash the controller with water or any other liquid.
- When disinfecting the unit using alcohol, ventilate the room adequately. The fumes of the alcohol around the unit may cause a fire or explosion when the unit is turned on.

**CAUTION**

- To reduce the risk of fire or explosion, do not place flammable materials or use flammable sprays around the controller.
- To reduce the risk of damage to the controller, do not directly spray insecticide or other flammable sprays on the controller.
- To reduce the risk of injury and electric shock, avoid contact with sharp edges of certain parts.
- To avoid injury from broken glass, do not apply excessive force on the glass parts.

### Precautions for moving or repairing the controller

**WARNING**

- The controller should be repaired or moved only by qualified personnel. Do not disassemble or modify the controller. Improper installation or repair may cause injury, electric shock, or fire.

**CAUTION**

- To avoid discoloration, do not use benzene, thinner, or chemical rag to clean the controller. To clean the controller, wipe with a soft cloth soaked in water with mild detergent, wipe off the detergent with a wet cloth, and wipe off water with a dry cloth.

### Additional precautions

- To avoid damage to the controller, use appropriate tools to install, inspect, or repair the controller.

- This controller is designed for exclusive use with the Building Management System by Mitsubishi Electric. The use of this controller for with other systems or for other purposes may cause malfunctions.

- To avoid damage to the controller, provide protection against static electricity.
Names and functions of controller components

Controller interface

The functions of the function buttons change depending on the screen. Refer to the button function guide that appears at the bottom of the LCD for the functions they serve on a given screen.

When the system is centrally controlled, the button function guide that corresponds to the locked button will not appear.

1. **ON / OFF button**
   Press to turn ON/OFF the indoor unit.

2. **SELECT button**
   Press to save the setting.

3. **RETURN button**
   Press to return to the previous screen.

4. **MENU button**
   Press to bring up the Main menu.

5. **Backlit LCD**
   Operation settings will appear. When the backlight is off, pressing any button turns the backlight on and it will stay lit for a certain period of time depending on the screen.

   When the backlight is off, pressing any button turns the backlight on and does not perform its function. (except for the (ON / OFF) button)

6. **ON / OFF lamp**
   This lamp lights up in green while the unit is in operation. It blinks while the remote controller is starting up or when there is an error.

7. **Function button F1**
   Main display : Press to change the operation mode.
   Main menu : Press to move the cursor down.

8. **Function button F2**
   Main display : Press to decrease temperature.
   Main menu : Press to move the cursor up.

9. **Function button F3**
   Main display : Press to increase temperature.
   Main menu : Press to go to the previous page.

10. **Function button F4**
    Main display : Press to change the fan speed.
    Main menu : Press to go to the next page.
The main display can be displayed in two different modes: "Full" and "Basic". The factory setting is "Full". To switch to the "Basic" mode, change the setting on the Main display setting. (Refer to page 50)

<Full mode>
* All icons are displayed for explanation.

<Basic mode>

Most settings (except ON/OFF, mode, fan speed, temperature) can be made from the Main menu. (Refer to page 19.)
Read before operating the controller

Menu structure

Press the [MENU] button. Move the cursor to the desired item with the [F1] and [F2] buttons, and press the [SELECT] button.

Main menu

- Vane · Louver · Vent. (Lossnay) ........................................... Page 21
- High power ................................................................. Page 23
- Timer
  - On / Off timer ......................................................... Page 24
  - Auto-Off timer ....................................................... Page 26
- Filter information ......................................................... Page 28
- Error information ....................................................... Page 30
- Weekly timer ............................................................ Page 32
- OU silent mode .......................................................... Page 34
- Restriction
  - Temp. range ............................................................ Page 36
  - Operation lock ....................................................... Page 38
- Energy saving
  - Auto return .......................................................... Page 39
  - Schedule .............................................................. Page 41
- Night setback ............................................................ Page 43
- Maintenance
  - Auto descending panel ............................................. Page 45
  - Manual vane angle .................................................. Page 46
  - 3D i-See sensor setting ............................................ Page 48
- Initial setting
  - Main / Sub ............................................................. Page 54
  - Clock ................................................................. Page 55
  - Main display ........................................................ Page 56
  - Contrast ............................................................... Page 57
  - Display details ........................................................ Page 58
  - Auto mode ............................................................ Page 60
  - Administrator password ......................................... Page 61
  - Language selection ................................................ Page 62
  - Daylight saving time .............................................. Page 63
- Service
  - Service menu ........................................................ Page 65
  - Test run .............................................................. Page 66
  - Drain pump test run ............................................... Page 67
  - Input maintenance info. .......................................... Page 68
  - Function setting (Mr. Slim) .................................... Page 72
  - Function setting (City Multi) ................................. Page 74
  - Lossnay (City Multi only) ....................................... Page 76
  - Check ................................................................. Page 78
  - Self check ............................................................ Page 83
  - Maintenance password .......................................... Page 84
  - Remote controller check .................................... Page 85

Not all functions are available on all models of indoor units.
<table>
<thead>
<tr>
<th>Setting and display items</th>
<th>Setting details</th>
<th>Reference page</th>
</tr>
</thead>
</table>
| **Vane · Louver · Vent. (Lossnay)** | Use to set the vane angle.  
  - Select a desired vane setting from five different settings.  
 **Use to turn ON / OFF the louver.**  
  - Select a desired setting from “ON” and “OFF.”  
 **Use to set the amount of ventilation.**  
  - Select a desired setting from “Off,” “Low,” and “High.” | 21 |
| **High power** | Use to reach the comfortable room temperature quickly.  
  - Units can be operated in the High-power mode for up to 30 minutes. | 23 |
| **Timer** | **On/Off timer**  
  - Use to set the operation On/Off times.  
  - Time can be set in 5-minute increments.  
  - Clock setting is required. | 24 |
| | **Auto-Off timer**  
  - Use to set the Auto-Off time.  
  - Time can be set to a value from 30 to 240 in 10-minute increments. | 26 |
| **Filter information** | Use to check the filter status.  
  - The filter sign can be reset. | 28 |
| **Error information** | Use to check error information when an error occurs.  
  - Error code, error source, refrigerant address, unit model, manufacturing number, contact information (dealer’s phone number) can be displayed.  
  - The unit model, manufacturing number, and contact information need to be registered in advance to be displayed. | 30 |
| **Weekly timer** | Use to set the weekly operation On / Off times.  
  - Up to eight operation patterns can be set for each day.  
  - Clock setting is required.  
  - Not valid when the On/Off timer is enabled. | 32 |
| **Energy saving** | **Auto return**  
  - Use to get the units to operate at the preset temperature after performing energy-save operation for a specified time period.  
  - Time can be set to a value from 30 and 120 in 10-minute increments.  
  - This function will not be valid when the preset temperature ranges are restricted.  
  - 1°C increments | 39 |
| | **Schedule**  
  - Set the start/stop times to operate the units in the energy-save mode for each day of the week, and set the energy-saving rate.  
  - Up to four energy-save operation patterns can be set for each day.  
  - Time can be set in 5-minute increments.  
  - Energy-saving rate can be set to a value from 0% and 50 to 90% in 10% increments.  
  - Clock setting is required. | 41 |
| **OU silent mode** | Use to set the time periods in which priority is given to quiet operation of outdoor units over temperature control. Set the Start/Stop times for each day of the week.  
  - Select the desired silent level from “Normal,” “Middle,” and “Quiet.”  
  - Clock setting is required. | 34 |
| **Night setback** | Use to make Night setback settings.  
  - Select “Yes” to enable the setting, and “No” to disable the setting. The temperature range and the start/stop times can be set.  
  - Clock setting is required.  
  - 1°C increments | 43 |
| **Restriction** | **Temp. range**  
  - Use to restrict the preset temperature range.  
  - Different temperature ranges can be set for different operation modes.  
  - 1°C increments | 36 |
| | **Operation lock**  
  - Use to lock selected functions.  
  - The locked functions cannot be operated. | 38 |
| **Maintenance** | **Auto descending panel**  
  - Auto descending panel (Optional parts) Up / Down you can do. | 45 |
| | **Manual vane angle**  
  - Use to set the vane angle for each vane to a fixed position. | 46 |
| | **3D I-See sensor setting**  
  - Appears with the units are operated in the energy-save mode with 3D I-see Sensor. | 48 |
| **Initial setting** | **Main/Sub**  
  - When connecting two remote controllers, one of them needs to be designated as a sub controller. | 54 |
| | **Clock**  
  - Use to set the current time. | 55 |
| | **Main display**  
  - Use to switch between “Full” and “Basic” modes for the Main display.  
  - The default setting is “Full.” | 56 |
<table>
<thead>
<tr>
<th>Setting and display items</th>
<th>Setting details</th>
<th>Reference page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial setting</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contrast</td>
<td>Use to adjust screen contrast.</td>
<td>57</td>
</tr>
<tr>
<td><strong>Display details</strong></td>
<td>Make the settings for the remote controller related items as necessary.</td>
<td>58</td>
</tr>
<tr>
<td>Clock</td>
<td>The factory settings are &quot;Yes&quot; and &quot;24h&quot; format.</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>Set either Celsius (°C) or Fahrenheit (°F).</td>
<td></td>
</tr>
<tr>
<td>Room temp.</td>
<td>: Set Show or Hide.</td>
<td></td>
</tr>
<tr>
<td>Auto mode</td>
<td>Set the Auto mode display or Only Auto display.</td>
<td></td>
</tr>
<tr>
<td><strong>Auto mode</strong></td>
<td>Whether or not to use the AUTO mode can be selected by using the button.</td>
<td>60</td>
</tr>
<tr>
<td><strong>Administrator password</strong></td>
<td>The administrator password is required to make the settings for the following items.</td>
<td>61</td>
</tr>
<tr>
<td></td>
<td>• Timer setting • Energy-save setting • Weekly timer setting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Restriction setting • Outdoor unit silent mode setting • Night set back</td>
<td></td>
</tr>
<tr>
<td>Language selection</td>
<td>Use to select the desired language.</td>
<td>62</td>
</tr>
<tr>
<td>Daylight saving time</td>
<td>Sets the daylight saving time</td>
<td>63</td>
</tr>
<tr>
<td><strong>Service</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test run</td>
<td>Select &quot;Test run&quot; from the Service menu to bring up the Test run menu.</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td>• Test run • Drain pump test run</td>
<td></td>
</tr>
<tr>
<td>Input maintenance info</td>
<td>Select &quot;Input maintenance Info.&quot; from the Service menu to bring up the Maintenance information screen.</td>
<td>68</td>
</tr>
<tr>
<td></td>
<td>The following settings can be made from the Maintenance Information screen.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Model name input • Serial No. input • Dealer information input</td>
<td></td>
</tr>
<tr>
<td>Function setting(Mr.slim)</td>
<td>Make the settings for the indoor unit functions via the remote controller as necessary.</td>
<td>72</td>
</tr>
<tr>
<td>Function setting(City Multi)</td>
<td>Use to make settings to for indoor unit's function.</td>
<td>74</td>
</tr>
<tr>
<td>LOSSNAY setting (City Multi only)</td>
<td>This setting is required only when the operation of City Multi units is interlocked with LOSSNAY units.</td>
<td>76</td>
</tr>
<tr>
<td>Check</td>
<td>Error history: Display the error history and execute delete error history.</td>
<td>78</td>
</tr>
<tr>
<td></td>
<td>Refrigerant leak check: Refrigerant leaks can be judged.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Smooth maintenance: The indoor and outdoor maintenance data can be displayed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Request cord: Details of the operation data including each thermistor temperature and error history can be checked.</td>
<td></td>
</tr>
<tr>
<td>Self check</td>
<td>Error history of each unit can be checked via the remote controller.</td>
<td>83</td>
</tr>
<tr>
<td>Maintenance password</td>
<td>Take the following steps to change the maintenance password.</td>
<td>84</td>
</tr>
<tr>
<td>Remote controller check</td>
<td>When the remote controller does not work properly, use the remote controller checking function to troubleshoot the problem.</td>
<td>85</td>
</tr>
</tbody>
</table>

**Remote controller function**

* The functions which can be used are restricted according to the model.

<table>
<thead>
<tr>
<th>Function</th>
<th>PAR-33MAA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Slim</td>
</tr>
<tr>
<td><strong>Function</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Body</strong></td>
<td></td>
</tr>
<tr>
<td>Product size</td>
<td>120 × 120 × 19</td>
</tr>
<tr>
<td>LCD</td>
<td>Full Dot LCD</td>
</tr>
<tr>
<td>Backlight</td>
<td></td>
</tr>
<tr>
<td><strong>Energy-saving</strong></td>
<td></td>
</tr>
<tr>
<td>Energy-saving operation schedule</td>
<td></td>
</tr>
<tr>
<td>Automatic return to the preset temperature</td>
<td></td>
</tr>
<tr>
<td><strong>Restriction</strong></td>
<td></td>
</tr>
<tr>
<td>Setting the temperature range restriction</td>
<td></td>
</tr>
<tr>
<td><strong>Function</strong></td>
<td></td>
</tr>
<tr>
<td>Operation lock function</td>
<td></td>
</tr>
<tr>
<td>Weekly timer</td>
<td></td>
</tr>
<tr>
<td>On / Off timer</td>
<td></td>
</tr>
<tr>
<td>High Power</td>
<td></td>
</tr>
<tr>
<td>Manual vane angle</td>
<td></td>
</tr>
<tr>
<td>Auto (dual set point) mode</td>
<td></td>
</tr>
</tbody>
</table>

○: Supported ❌: Unsupported

* The functions which can be used are restricted according to the model.
The following settings cannot be made from the sub remote controller. Make these settings from the main remote controller. "Main" is displayed in the title of the Main menu on the main remote controller.

- Timer (On / Off timer, Auto-Off timer)
- Weekly timer
- OU silent mode
- Energy saving (Auto return, Schedule)
- Night setback
- Maintenance (Manual vane angle)
Controller operation : Basic operations

Power ON / OFF

Button operation

[ON]
Press the button.
The ON / OFF lamp will light up in green, and the operation will start.

[OFF]
Press the button again.
The ON / OFF lamp will come off, and the operation will stop.

Operation status memory

<table>
<thead>
<tr>
<th></th>
<th>Remote controller setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation mode</td>
<td>Operation mode before the power was turned off</td>
</tr>
<tr>
<td>Preset temperature</td>
<td>Preset temperature before the power was turned off</td>
</tr>
<tr>
<td>Fan speed</td>
<td>Fan speed before the power was turned off</td>
</tr>
</tbody>
</table>

Settable preset temperature range

<table>
<thead>
<tr>
<th>Operation mode</th>
<th>Preset temperature range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cool/Dry</td>
<td>19 ~ 30 °C (67 ~ 87 °F)</td>
</tr>
<tr>
<td>Heat</td>
<td>17 ~ 28 °C (63 ~ 83 °F)</td>
</tr>
<tr>
<td>Auto (Single set point)</td>
<td>19 ~ 28 °C (67 ~ 83 °F)</td>
</tr>
<tr>
<td>Auto (Dual set points)</td>
<td>[Cool] Preset temperature range for the Cool mode [Heat] Preset temperature range for the Heat mode</td>
</tr>
<tr>
<td>Fan/Ventilation</td>
<td>Not settable</td>
</tr>
</tbody>
</table>

The settable temperature range varies with the model of indoor units.
**Controller operation**

**[Operation mode]**

Press the [F1] button to go through the operation modes in the order of "Cool, Dry, Fan, Auto, and Heat." Select the desired operation mode.

- **Cool**
- **Dry**
- **Fan**
- **Auto**
- **Heat**

- Operation modes that are not available to the connected indoor unit models will not appear on the display.

**<Automatic operation>**

- According to a set temperature, cooling operation starts if the room temperature is too hot and heating operation starts if the room temperature is too cold.
- During automatic operation, if the room temperature changes and remains 2°C or more above the set temperature for 15 minutes, the air conditioner switches to cooling mode. In the same way, if the room temperature remains 2°C or more below the set temperature for 15 minutes, the air conditioner switches to heating mode.

**<What the blinking mode icon means>**

The mode icon will blink when other indoor units in the same refrigerant system (connected to the same outdoor unit) are already operated in a different mode. In this case, the rest of the unit in the same group can only be operated in the same mode.

**<AUTO (dual set point) mode>**

When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

The graph below shows the operation pattern of indoor unit operated in the Auto (dual set point) mode.
[Preset temperature]

*Cool, Dry, Heat, and Auto (single set point)*

Press the F2 button to decrease the preset temperature, and press the F3 button to increase.
- Refer to the table on page 15 for the settable temperature range for different operation modes.
- Preset temperature range cannot be set for Fan/Ventilation operation.
- Preset temperature will be displayed either in Centigrade in 0.5- or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.

Example display
(Centigrade in 0.5-degree increments)

*Auto (dual set point) mode*

The current preset temperatures will appear.
Press the F2 or F3 button to display the Settings screen.

Press the F1 or F2 button to move the cursor to the desired temperature setting (cooling or heating).
Press the F3 button to decrease the selected temperature, and F4 to increase.
- Refer to the table on page 15 for the settable temperature range for different operation modes.
- The preset temperature settings for cooling and heating in the Auto (dual set point) mode are also used by the Cool/Dry and Heat modes.
- The preset temperatures for cooling and heating in the Auto (dual set point) mode must meet the conditions below:
  - Preset cooling temperature is higher than preset heating temperature.
  - The minimum temperature difference requirement between cooling and heating preset temperatures (varies with the models of indoor units connected) is met.
  - If preset temperatures are set in a way that does not meet the minimum temperature difference requirement, both preset temperatures will automatically be changed within the allowable setting ranges.

Navigating through the screens
- To return to the Main screen ....... button
[Fan speed]

Press the F4 button to go through the fan speeds in the following order.

- The available fan speeds depend on the models of connected indoor units.
Navigating through the Main menu

Button operation

[Accessing the Main menu]

Press the button.
The Main menu will appear.

[Item selection]

Press F1 to move the cursor down.
Press F2 to move the cursor up.

[Navigating through the pages]

Press F3 to go to the previous page.
Press F4 to go to the next page.
[Saving the settings]

Select the desired item, and press the button.
The screen to set the selected item will appear.

[Exiting the Main menu screen]

Press the button to exit the Main menu and return to the Main display.

If no buttons are touched for 10 minutes, the screen will automatically return to the Main display. Any settings that have not been saved will be lost.

[Display of unsupported functions]

The message at left will appear if the user selects a function not supported by the corresponding indoor unit model.
Controller operation : Function setting

Vane · Louver · Vent. (Lossnay)

Button operation

[Accessing the menu]

Select "Vane · Louver · Vent. (Lossnay)" from the Main menu (refer to page 19), and press the button.

[Vane setting]

Press the F1 or F2 button to go through the vane setting options: "AUTO", "Step 1", "Step 2", "Step 3", "Step 4", "Step 5" and "Swing."

Select the desired setting.

Select "Swing" to move the vanes up and down automatically. When set to "Step 1" through "Step 5", the vane will be fixed at the selected angle.

Under the vane setting icon

This icon will appear when the vane is set to "Step 5" and the fan operates at low speed during cooling or dry operation (depends on the model). The icon will go off in an hour, and the vane setting will automatically change.
**[Louver setting]**

Press the **F4** button to turn the louver swing ON and OFF.

![Sample screen on City Multi](image)

**[Vent. setting]**

Press the **F3** button to go through the ventilation setting options in the order of “Off,” “Low,” and “High.”

* Settable only when LOSSNAY unit is connected.

![Sample screen on Mr. Slim](image)

• The fan on some models of indoor units may be interlocked with certain models of ventilation units.

**[Returning to the Main menu]**

Press the **button** to go back to the Main menu.

![Main menu](image)
High power

High-power operation function allows the units to operate at higher-than-normal capacity so that the room air can be conditioned to an optimum temperature quickly. This operation will last for up to 30 minutes, and the unit will return to the normal operation mode at the end of the 30 minutes or when the room temperature reaches the preset temperature, whichever is earlier. The units will return to the normal operation when the operation mode or fan speed is changed.

Button operation

[1]  
Select "High power" from the Main menu during Cooling, Heating, or AUTO operation (refer to page 19), and press the button.

“High power” operation is valid only with models which support high power operation.

Move the cursor to “YES” with the F3 or F4 button, and press the button.

A confirmation screen will appear.

Navigating through the screens

• To go back to the Main menu ................. button
• To return to the previous screen ............... button
**Timer**

**On / Off timer**
The unit automatically turns on or off at the preset time.
(ex. Operation start time PM 2:30/ Operation stop time AM 12:50/ only one)

**Button operation**

1. **Select “Timer” from the Main menu (refer to page 19), and press the button.**

   The On/Off timer will not work in the following cases:
   - when On/Off timer is disabled, during an error, during check (in the service menu), during test run, during remote controller diagnosis, when the clock is not set, during Function setting, when the system is centrally controlled (when On/Off operation or Timer operation from local controller is prohibited).

2. **The current settings will appear.**

   **Move the cursor to the On / Off timer, and press the button.**

   Administrator password setting. (Refer to page 61)

3. **The screen to set the timer will appear.**

   **Select the desired item with the F1 or F2 button out of "On / Off timer", "On", "Off" or "Repeat".**
Change the setting with the [F3] or [F4] button.

- **On / Off timer**: No (disable) / Yes (enable)
- **On**: Operation start time (settable in 5-minute increments)
  * Press and hold the button to rapidly advance the numbers.
- **Off**: Operation stop time (settable in 5-minute increments)
  * Press and hold the button to rapidly advance the numbers.
- **Repeat**: No (once) / Yes (repeat)

Press the [✓] button to save the settings.

A confirmation screen will appear.

Navigating through the screens
- To go back to the Main menu ................ [F] button
- To return to the previous screen ............ [button]

will appear on the Main display in the Full mode when the On/Off timer is enabled.

appears when the timer is disabled by the centralized control system.
**Timer**

| Auto-Off timer |

**Button operation**

[1] Bring up the Timer setting screen. (Refer to page 24.)

Select "Auto-Off", and press the **button.

Administrator password setting. (Refer to page 61)

The Auto-Off timer will not work in the following cases:
when Auto-Off timer is disabled, during an error, during check (in the service menu), during test run, during remote controller diagnosis, when the clock is not set, during Function setting, when the system is centrally controlled (when On/Off operation or Timer operation from local controller is prohibited).


Move the cursor to the "Auto-Off" or "Stop in --- min" with the **F1** or **F2** button.

[3] Change the setting with the **F3** or **F4** button.

- **Auto-Off**: No (disable) / Yes (enable)
- **Stop in --- min**: Timer setting
  (The settable range is 30 to 240 minutes in 10-minute increments.)

**Button operation**

1. Bring up the Timer setting screen. (Refer to page 24.)
2. Select "Auto-Off", and press the **button.
3. The current settings will appear.
4. Change the setting with the **F3** or **F4** button.

**Button operation**

1. Bring up the Timer setting screen. (Refer to page 24.)
2. Select "Auto-Off", and press the **button.
3. The current settings will appear.
4. Change the setting with the **F3** or **F4** button.
Press the button to save the settings.

A confirmation screen will appear.

Navigating through the screens
• To go back to the Main menu ....................... button
• To return to the previous screen ............... button

will appear on the Main display in the Full mode when the Auto-off timer is enabled.

appears when the timer is disabled by the centralized control system.
Filter information

![Display Image]

The symbol will appear on the Main display in the Full mode when it is time to clean the filters. Wash, clean, or replace the filters when this sign appears. Refer to the indoor unit Instructions Manual for details.

Button operation

[1] Main menu:

Select "Filter information" from the Main menu (refer to page 19), and press the button.

[2] Filter information

Press the F4 button to reset filter sign.

Refer to the indoor unit Instructions Manual for how to clean the filter.

[3] Filter information

Select "OK" with the F4 button.

A confirmation screen will appear.

Navigating through the screens

• To go back to the Main menu ................. or button
If two or more indoor units are connected, filter cleaning timing for each unit may be different, depending on the filter type.

The icon 🌿 will appear when the filter on the main unit is due for cleaning.

When the filter sign is reset, the cumulative operation time of all units will be reset.

The icon 🌿 is scheduled to appear after a certain duration of operation, based on the premise that the indoor units are installed in a space with ordinary air quality. Depending on the air quality, the filter may require more frequent cleaning.

The cumulative time at which filter needs cleaning depends on the model.
Error information

When an error occurs, the following screen will appear. Check the error status, stop the operation, and consult your dealer.

Button operation

[1] Error information 1/2

Error code, error unit, refrigerant address, unit model name, and serial number will appear. The model name and serial number will appear only if the information have been registered.

Press the F1 or F2 button to go to the next page.

Contact information (dealer's phone number) will appear if the information have been registered.

[2] Error information 1/2

Press the F4 button or the button to reset the error that is occurring.

Errors cannot be reset while the ON/OFF operation is prohibited.

Select "OK" with the F4 button.

Navigating through the screens
• To go back to the Main menu ........ button
Checking the error information

While no errors are occurring, page 2/2 of the error information (refer to page 30) can be viewed by selecting "Error information" from the Main menu (refer to page 19).
Errors cannot be reset from this screen.
Weekly timer

- ON / OFF and temperature setting can be scheduled for each day.
- "Weekly timer" is not executed when the On / Off timer is enabled.

Button operation

[1] Select "Weekly timer" from the Main menu (refer to page 19), and press the button.

The Weekly timer will not work in the following cases:
when the On / Off timer is enabled, when the weekly timer is disabled, during an error, during check (in the service menu), during test run, during remote controller diagnosis, when the clock is not set, during Function setting, when the system is centrally controlled (On / Off operation temperature setting or Timer operation from local controller is prohibited).


Press the F1 or F2 button to see the settings for each day of the week.

Press the F4 button to see patterns 5 through 8.

Press the button to go to the setting screen.

Administrator passwaord setting. (Refer to page 61)

[3] The screen to enable (Yes) and disable (No) the weekly timer will appear.

To enable the setting, move the cursor to "Yes" with the F3 or F4 button, and press the button.
The weekly timer setting screen will appear and the current settings will be displayed.
Up to eight operation patterns can be set for each day.

Move the cursor to the desired day of the week with the F1 or F2 button, and press the F3 button to select it. (Multiple days can be selected.)

Press the button.

Operation pattern setting screen will appear.

Press the F1 button to move the cursor to the desired pattern number.
Move the cursor to the time, On / Off, or temperature with the F2 button.
Change the settings with the F3 or F4 button.

• Time: settable in 5-minute increments
  * Press and hold the button to rapidly advance the numbers.
• On/Off/Auto: Selectable settings depend on the model of connected indoor unit. (When an Auto pattern is executed, the system will operate in the Auto (dual set point) mode.)
• Temperature: The settable temperature range depends on the connected indoor units. (1°C increments)
  When the Auto (dual set point) mode is selected, two preset temperatures can be set. If an operation pattern with a single preset temperature setting is executed during the Auto (dual set point) mode, its setting will be used as the cooling temperature setting in the Cool mode.

Press the button to save the settings.
A confirmation screen will appear.

Navigating through the screens
• To go back to the setting change/day of the week selection screen .... button
• To go back to the Main menu ..................................................... button
• To return to the previous screen ................................................ button

will appear on the Main display in the Full mode when the weekly timer setting for the current day exists.
The icon will not appear while the On/Off timer is enabled or the system is under centralized control (Timer operation from local remote controller is prohibited).
OU silent mode

This function allows the user to set the time periods in which priority is given to quiet operation of outdoor units over temperature control. Set the start and stop times each day of the week for the quiet operation. Select the desired silent level from “Middle” and “Quiet”.

Button operation

1. Select "OU silent mode" from the Main menu (refer to page 19), and press the button.

   *OU silent mode* function is available only on the models that support the function.

2. The current settings will appear.

   Press the F1 or F2 button to see the settings for each day of the week.

   Press the button to go to the setting screen.

3. The screen to enable (Yes) and disable (No) the silent mode will appear.

   To enable this setting, move the cursor to "Yes" with the F3 or F4 button, and press the button.
Controller operation: Function setting

The setting screen will appear.

To make or change the setting, move the cursor to the desired day of the week with the F1 or F2 button, and press the F3 button to select it. (Multiple days can be selected.)

Press the button.

Navigating through the screens
• To go back to the setting change/day of the week selection screen .... button
• To go back to the Main menu .................................................... button
• To return to the previous screen ................................................ button

will appear on the Main display in the Full mode during the OU silent mode.
Restriction

Setting the temperature range restriction
Use to restrict the preset temperature range.

Button operation

[1] Select "Restriction" from the Main menu (refer to page 19), and press the ☑ button.


Move the cursor to "Temp. range" with the F1 or F2 button, and press the ☑ button.

Administrator password setting. (Refer to page 61)

[3] The screen to set the temperature range will appear.

Move the cursor to the desired item with the F1 button out of "Temp. range", "Cool · Dry", "Heat" or "Auto."
Controller operation : Function setting

Change the settings with the [F3] or [F4] button.

- **Temp. range**: No (unrestricted) or Yes (restricted)
- **Cool · Dry**: Upper and lower limit temperature (1°C increments)
- **Heat**: Upper and lower limit temperature (1°C increments)
- **Auto**: Upper and lower limit temperature (1°C increments)

### <Temperature setting ranges>

<table>
<thead>
<tr>
<th>Mode</th>
<th>Lower limit</th>
<th>Upper limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cool · Dry *1</td>
<td>19 – 30°C</td>
<td>30 – 19°C</td>
</tr>
<tr>
<td></td>
<td>(67 – 87°F)</td>
<td>(87 – 67°F)</td>
</tr>
<tr>
<td>Heat</td>
<td>17 – 28°C</td>
<td>28 – 17°C</td>
</tr>
<tr>
<td></td>
<td>(63 – 83°F)</td>
<td>(83 – 63°F)</td>
</tr>
<tr>
<td>Auto</td>
<td>19 – 28°C</td>
<td>28 – 19°C</td>
</tr>
<tr>
<td></td>
<td>(67 – 83°F)</td>
<td>(83 – 67°F)</td>
</tr>
</tbody>
</table>

* The settable range varies depending on the connected unit.
*1 Temperature ranges for the Cool, Dry, and Auto (dual set point) modes can be set.
*2 Temperature ranges for the Heat and Auto (dual set point) modes can be set.
*3 Temperature ranges for the Heat, Cool, and Dry modes must meet the conditions below:
  - Upper limit for cooling - upper limit for heating ≥ Minimum temperature difference (varies with indoor unit model)
  - Lower limit for cooling - lower limit for heating ≥ Minimum temperature difference (varies with indoor unit model)
*4 Temperature range for the Auto (single set point) mode can be set.

Press the [✓] button to save the settings.

A confirmation screen will appear.

**Navigating through the screens**

- To go back to the Main menu ................. button
- To return to the previous screen ............. button

will appear on the Main display in the Full mode when the temperature range is restricted.
Restriction

Operation lock function

- To enable the operation lock function, set the item "Operation locked" to "Yes".
- The On/Off operation, Operation mode setting, Preset temp, Setting and Vane Setting operations can all be restricted.

Button operation

1. Bring up the Restriction setting screen. (refer to page 36)
   Move the cursor to "Operation locked" and press the button.
   Administrator password setting. (Refer to page 61)

2. The screen to make the settings for the operation lock function will appear.
   Move the cursor to the desired item with the F1 or F2 button out of "Operation locked", "On/Off", "Mode", "Set temp.", or "Vane".
   Change the settings with the F3 or F4 button.
   - **Operation locked**: No (disable) / Yes (enable)
   - **On/Off**: On/Off operation
   - **Mode**: Operation mode setting
   - **Set temp.**: Preset temp. setting
   - **Vane**: Vane setting
   Press the button to save the settings.
   A confirmation screen will appear.

Navigating through the screens
- To go back to the Main menu .............. button
- To return to the previous screen .............. button

(When Set temp. is locked)
Energy saving

Automatic return to the preset temperature

After the Auto return function is enabled, when the operation mode change or ON/OFF operation is performed from this remote controller, the set temperature automatically returns to the required temperature regardless of the set time.

Button operation

[1] Select "Energy saving" from the Main menu (refer to page 19), and press the button.


Move the cursor to “Auto return” with the F1 or F2 button, and press the button.

Administrator password setting. (Refer to page 61)

[3] The screen to make the settings for the automatic return to the preset temperature will appear.

Move the cursor to the desired item with the F1 or F2 button out of “Auto return”, “Cool” or “Heat.”
Change the settings with the F3 or F4 button.

- **Auto return**: No (disable) / Yes (enable)
- **Cool**: Timer setting range is 30 to 120 minutes in 10-minute increments. Temperature setting range is 19 to 30°C (67 to 87°F) (1ºC increments).
- **Heat**: Timer setting range is 30 to 120 minutes in 10-minute increments. Temperature setting range is 17 to 28°C (63 to 83°F) (1ºC increments).

"Cool" includes "Dry" and "AUTO Cooling" modes, and "Heat" includes "AUTO Heating" mode.

Press the button to save the settings.

The screen to set the selected item will appear.

The above Timer or Preset temperature settings will not be effective when the Temp. range is restricted and when the system is centrally controlled (when the Temp. range setting from local controller is prohibited). When the system is centrally controlled (when Timer operation from local remote controller is prohibited), only the Timer setting will be ineffective.

---

<Sample screens when the Auto return function is enabled>

Example: Lower the Set temp. to 24°C (75°F). 60 minutes later, the Set temp. will be back to 28°C (83°F).

The Set temp. is changed from 28°C (83°F) to 24°C (75°F) by a user.

60 minutes later, the Set temp. returns to 28°C (83°F) automatically.
Setting the energy-saving operation schedule
Set the Energy-saving operation start time, end time and performance save value for one week.

Button operation

[1] Bring up the "Energy saving" screen. (refer to page 39)
Move the cursor to the "Schedule," and press the button.

[2] The screen to see the schedule will appear.
Press the F1 or F2 button to see the settings for each day of the week.
Press the button to go to the setting screen.
Administrator passwaord setting. (Refer to page 61)

[3] The screen to enable (Yes)/disable (No) the energy-saving operation schedule will appear.
Select "No" or "Yes" with the F3 or F4 button.
Press the button to go to the setting change/day of the week selection screen.

* Up to four operation patterns can be set for each day.
Move the cursor to the desired day of the week with the F1 or F2 button, and press the F3 button to select it. (Multiple days can be selected.)
Press the button to go to the pattern setting screen.
The pattern setting screen will appear.

Press the F1 button to move the cursor to the desired pattern number.

Move the cursor to the desired item with the F2 button out of the start time, stop time, and energy-saving rate (arranged in this order from the left).

Change the settings with the F3 or F4 button.

- **Start/Stop time**: settable in 5-minute increments
- **Energy-saving rate**: The setting range is 0% and 50 to 90% in 10% increments.

Press the button to save the settings.

A confirmation screen will appear.

- **The lower the value, the greater the energy-saving effect.**

**Navigating through the screens**
- To go back to the setting change/day of the week selection screen .... button
- To go back to the Main menu.......................... button
- To return to the previous screen ................................ button

♦ Overlapping times can be set. Refer to <Example 2> for details on the operation methods.

**Example1**
- *pattern1*: 8:15~12:00/ 90%
- *pattern2*: 12:00~17:00/ 80%
- *pattern3*: 18:00~21:00/ 90%
- *pattern4*: 8:15~12:00/ 90%

**Example2**
- *pattern1*: 8:15~21:00/ 90%
- *pattern2*: 12:00~16:00/ 70%
- *pattern3*: 16:00~19:00/ 90%
- *pattern4/: No restriction

will appear on the Main display in the Full mode when the unit is operated in the energy saving mode.
Night setback

This control starts heating operation when the control object group is stopped and the room temperature drops below the preset lower limit temperature. Also, this control starts cooling operation when the control object group is stopped and the room temperature rises above the preset upper limit temperature.

The Night setback function is not available if the operation and the temperature setting are performed from the remote controller.

If the room temperature is measured by the air-conditioner's suction temperature sensor, the accurate temperature may not be obtained when the air-conditioner is inactive or when the air is not clean. In this case, switch the sensor to a remote sensor (PAC-SE40TSA/PAC-SE41TS-E) or a remote control sensor.

Button operation

[1]
Select "Night setback" from the Main menu (refer to page 19), and press the button.

[2]
The current settings will appear.

Press the button to go to the setting screen.

Administrator password setting. (Refer to page 61)

[3]
Move the cursor to the desired item with the F1 or F2 button out of Night setback No (disable)/Yes (enable), Temp. range, Start time, or Stop time.

Change the settings with the F3 or F4 button.

- **Temp. range**: The lower limit temperature (for heating operation) and the upper limit temperature (for cooling operation) can be set. The temperature difference between the lower and upper limits must be 4°C (8°F) or more. The settable temperature range varies depending on the connected indoor units.
  - 1°C increments
- **Start/Stop time**: settable in 5-minute increments
  - Press and hold the button to rapidly advance the numbers.

Press the button to save the settings.

A confirmation screen will appear.

Navigating through the screens
- To go back to the Main menu.............. button
- To return to the previous screen.............. button
Controller operation: Function setting

Cool

Room 28°C

Set temp.

Auto

14:38 Fri

±

Temp.

Fan

will appear on the Main display in the Full mode when the Night setback function is enabled.

appears when the timer is disabled by the centralized control system.

The Night setback will not work in the following cases:
when the unit is in operation, when the Night setback function is disabled, during an error, during check (in the service menu), during test run, during remote controller diagnosis, when the clock is not set, during Function setting, when the system is centrally controlled (On/Off operation temperature setting or Timer operation from local controller is prohibited).
Select “Maintenance” from the Main menu (refer to page 19), and press the
button.

Select “Auto descending panel” with the F1 or F2 button, and press the
button.

* When using the auto descending panel, always set the “Address” and “Unit
No.” with “Service” – “Function setting”.

Move the cursor to "Ref. address", "Unit No." or "Operation" with the F1
button to select.

Select the refrigerant address and the unit number for the units to whose
falls panel, with the F2 or F3 button, and press the button.

- Ref. address: Refrigerant address
- Unit No.: 1, 2, 3, 4, All
- Operation: Down / Up

Press the F4 button to confirm the unit.

<Confirmation of target unit>
If the unit being set is unknown, make the setting and then press the F4 but-
ton to confirm.
The air conditioner which is blowing downward is the target air conditioner.

Navigating through the screens
- To return to the previous screen .................. button
**Manual vane angle**

Applies to the of Ceiling cassette type.
Use to set the vane angle for each vane to a fixed position.

**Button operation**

1. Select "Maintenance" from the Main menu (refer to page 19), and press the button.

2. Select "Manual vane angle" with the F1 or F2 button, and press the button.

3. Move the cursor to "Ref. address", "Unit No." or "Operation" with the F1 button to select.

   Select the refrigerant address and the unit number for the units to whose vanes are to be fixed, with the F2 or F3 button, and press the button.

   - **Ref. address**: Refrigerant address
   - **Unit No.**: 1, 2, 3, 4

   Press the F4 button to confirm the unit.

   Pressing the button to returns the display to [3].

   **<Confirmation of target unit>**
   - If the unit being set is unknown, make the setting and then press the F4 button to confirm.
   - The air conditioner which is blowing downward is the target air conditioner.

   The screen at left shows a sample display on Mr. Slim. On City Multi units, "M-NET address," is displayed instead of "Ref. address", and the "Unit No." will not be displayed.
The current vane setting will appear.

**Select the desired outlets from 1 through 4 with the [F1] or [F2] button.**
- Outlet: “1,” “2,” “3,” “4,” and “1, 2, 3, 4, (all outlets)”

- Press the [F3] or [F4] button to go through the option in the order of “No setting (reset),” “Step 1,” “Step 2,” “Step 3,” “Step 4,” and “Step 5.”
- Select the desired setting.

**<Vane setting>**

- No setting
- Step 1
- Step 2
- Step 3
- Step 4
- Step 5
- All outlets

- Press the [ ] button to save the settings.

A screen will appear that indicates the setting information is being transmitted. The setting changes will be made to the selected outlet.
The screen will automatically return to the previous screen when the transmission is completed.
Make the settings for other outlets, following the same procedures.

**If all outlets are selected, [ ] will be displayed the next time the unit goes into operation.**

*[Draft reduction]*
The [Draft reduction] mode keeps the vane angle more horizontal than the angle of Step 1 so that the airflow will not be directed toward the people.
This function can be set only for one outlet.
This function cannot be set for models with two or three outlets.
In the Draft reduction mode, the airflow may cause the ceiling discoloration.
3D i-See sensor setting

3D i-See sensor setting

Button operation

[1] Select "Maintenance" from the Main menu (refer to page 19), and press the button.

[2] Select "3D i-See sensor" with the F1 or F2 button, and press the button.

[3] Select the desired menu with the F1 or F2 button, and press the button.

- **Air distribution**
  - Select the airflow direction control method when the airflow direction is set to "Auto".
- **Energy saving option**
  - Operates the energy-save mode according to whether persons are detected in the room by the 3D i-See sensor.
- **Seasonal airflow**
  - When the thermostat turns off, the fan and the vanes operate according to the control settings.
Select "Maintenance" from the Main menu (refer to page 19), and press the \( \checkmark \) button.

Select "3D i-See sensor" with the F1 or F2 button, and press the \( \checkmark \) button.

Select "Air distribution" with the F1 or F2 button, and press the \( \checkmark \) button.

Move the cursor to "Ref. address", "Unit No." or "Operation" with the F1 button to select.

Select the refrigerant address and the unit number for the units to whose vanes are to be fixed, with the F2 or F3 button, and press the \( \checkmark \) button.

- Ref. address: Refrigerant address
- Unit No.: 1, 2, 3, 4

Press the F4 button to confirm the unit.

<Confirmation of target unit>
If the unit being set is unknown, make the setting and then press the F4 button to confirm.
The air conditioner which is blowing downward is the target air conditioner.

The vane of only the target indoor unit is pointing downward.
Select the menu with the \[F4\] button.
Default $\rightarrow$ Area $\rightarrow$ Direct/Indirect $\rightarrow$ Default...

Default: The vanes move the same as during normal operation.
During cooling mode, all of the vanes move to the horizontal airflow direction.
During heating mode, all of the vanes move to the down airflow direction.

Area: The vanes move to the down airflow direction toward areas with a high floor temperature during cooling mode and toward areas with a low floor temperature during heating mode. Otherwise, the vanes move to the horizontal airflow direction.

Direct/Indirect: The vanes automatically move relative to the areas where persons are detected.
The vanes operate as indicated in the following table.

<table>
<thead>
<tr>
<th>Vane setting</th>
<th>Direct</th>
<th>Indirect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling</td>
<td>horizontal $\rightarrow$ swing</td>
<td>keep horizontal</td>
</tr>
<tr>
<td>Heating</td>
<td>keep downward</td>
<td>downward $\rightarrow$ horizontal</td>
</tr>
</tbody>
</table>

When Direct/Indirect is selected, set each air outlet.
Select the air outlet with the \[F1\] or \[F2\] button, and change the setting with the \[F4\] button.

After changing the settings for all of the air outlets, press the $\checkmark$ button to save the settings.

* In order to enable this function, the airflow direction must be set to “Auto”.
## Energy saving option

### Button operation

1. Select "Maintenance" from the Main menu (refer to page 19), and press the button.

2. Select "3D i-See sensor" with the F1 or F2 button, and press the button.

3. Select "Energy saving option" with the F1 or F2 button, and press the button.

4. Select the desired menu with the F1 or F2 button.

   - **No occupancy energy save**
     If there are no persons in the room for 60 minutes or more, energy-saving operation equal to 2 °C is performed.

   - **Room occupancy energy save**
     If the occupancy rate decreases to approximately 30% of the maximum occupancy rate, energy-saving operation equal to 1 °C is performed.

   - **No occupancy Auto-OFF**
     If there are no persons in the room for the set amount of time (60–180 minutes), the operation is automatically stopped.

2. When No occupancy energy save or Room occupancy energy save is selected.

   Select the setting with the F4 button.

   OFF → Cooling only → Heating only → Cooling/Heating → OFF...

   After changing the setting, press the button to save the setting.
OFF: The function is disabled.
Cooling only: The function is enabled only during cooling mode.
Heating only: The function is enabled only during heating mode.
Cooling/Heating: The function is enabled during both cooling mode and heating mode.

When No occupancy Auto-OFF is selected
Set the time with the F3 or F4 button.

---: The setting is disabled (the operation will not stop automatically).
60–180: The time can be set in 10-minute increments.

The message at left will appear if the operation was stopped automatically by the No occupancy Auto-OFF setting.
Seasonal airflow function

Button operation

1. Select "Maintenance" from the Main menu (refer to page 19), and press the check button.

2. Select "3D i-See sensor" with the F1 or F2 button, and press the check button.

3. Select "Seasonal airflow" with the F1 or F2 button, and press the check button.

Select the setting with the F4 button.
OFF → Cooling only → Heating only → Cooling/Heating → OFF...

After changing the setting, press the check button to save the setting.

OFF: The function is disabled.
Cooling only: When the thermostat turns off during cooling mode, the vanes move up and down.
Heating only: When the thermostat turns off during heating mode, the vanes move to the horizontal airflow direction to circulate the air.
Cooling/Heating: The function is enabled during both cooling mode and heating mode.

* In order to enable this function, the airflow direction must be set to "Auto".
Initial setting

Main / Sub

When connecting two remote controllers, one of them needs to be designated as a sub controller.

Button operation

[1]
Select "Initial setting" from the Main menu (refer to page 19), and press the button.

[2]
Move the cursor to the "Main / Sub" with the F1 or F2 button, and press the button.

[3]
Select "Main" or "Sub" (refer to page 14) with the F3 or F4 button, and press the button.

If the setting is changed from "Sub remote controller" to "Main remote controller", automatically restart after changing the settings.

Navigating through the screens
- To go back to the Main menu ................. button
- To return to the previous screen ............. button
Clock

Button operation

[1] Select "Initial setting" from the Main menu (refer to page 19), and press the button.

Clock setting is required before making the following settings.
- On/Off timer
- Weekly timer
- OU silent mode
- Energy saving
- Night setback

[2] Move the cursor to the "Clock" with the F1 or F2 button, and press the button.

If a given system has no system controllers, the clock time will not automatically be corrected. In this case, periodically correct the clock time.

[3] Move the cursor to the desired item with the F1 or F2 button out of year, month, date, hour or minute.

Increase or decrease the value for the selected item with the F3 or F4 button, and press the button.

A confirmation screen will appear.

Navigating through the screens
- To go back to the Main menu .................. button
- To return to the previous screen ................ button
Select "Initial setting" from the Main menu (refer to page 19), and press the \( \checkmark \) button.

Move the cursor to the "Main display" with the \( \text{F1} \) or \( \text{F2} \) button, and press the \( \checkmark \) button.

Select "Full" or "Basic" (refer to page 10) with the \( \text{F3} \) or \( \text{F4} \) button, and press the \( \checkmark \) button.

A confirmation screen will appear.

Navigating through the screens
- To go back to the Main menu ................. \( \text{F1} \) button
- To return to the previous screen .............. \( \text{F2} \) button
Contrast

Button operation

[1] Select "Initial setting" from the Main menu (refer to page 19), and press the \checkmark button.

Move the cursor to the "Contrast" with the F1 or F2 button, and press the \checkmark button.

[2] Adjust the contrast with the F3 or F4 button, and press the \select or \ensure button.

Navigating through the screens
• To go back to the Main menu .................. \select button
• To return to the previous screen .............. \select button
Display detail setting

**Clock**

**Button operation**

1. Select "Initial setting" from the Main menu (refer to page 19), and press the \( \sqrt{ } \) button.

2. Move the cursor to the "Display details" with the \( \text{F1} \) or \( \text{F2} \) button, and press the \( \sqrt{ } \) button.

3. Move the cursor to the "Clock" with the \( \text{F1} \) or \( \text{F2} \) button, and change the setting with the \( \text{F4} \) button.

4. Move the cursor to the "Clock", "12 disp." or "AM / PM disp." with the \( \text{F1} \) or \( \text{F2} \) button, and change the setting with the \( \text{F3} \) or \( \text{F4} \) button.

The factory settings are "Yes" (display) and "24h" format.

- **Clock display**: Yes (Time is displayed on the Main display)
  No (Time is not displayed on the Main display)
- **Display format**: 24h : 24h format
  12h : 12h format
- **AM / PM display** (Effective when the display format is 12-hour):
  AM / PM before the time [AM12:00]
  AM / PM after the time [12:00AM]

Note: Time display format will also be reflected on the time and schedule setting display. The time is displayed as shown below.

<table>
<thead>
<tr>
<th>12-hour format</th>
<th>24-hour format</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM12:00 – AM1:00 – PM12:00 – PM1:00 – PM11:59</td>
<td>0:00 – 1:00 – 12:00 – 13:00 – 23:59</td>
</tr>
</tbody>
</table>

Press the \( \sqrt{ } \) button to save the settings.

**Navigating through the screens**

- To go back to the Main menu ............. \( \text{B} \) button
- To return to the previous screen ............. \( \text{S} \) button
Display details setting

Temperature Unit, Room temp, Auto mode

Button operation

[1]

Select “Initial setting” from the Main menu (refer to page 19), and press the button.

Move the cursor to the "Display details" with the F1 or F2 button, and press the button.

Move the cursor to the “Temperature”, “Room temp.” or “Auto mode” with the F1 or F2 button, and change the setting with the F3 or F4 button.

[2]

Change the setting with the F3 or F4 button.

[1] Temperature unit setting (The factory default setting is Celsius (˚C))
  • ˚C: Temperature is displayed in Centigrade. Temperature is displayed in 0.5- or 1-degree increments, depending on the model of indoor units.
  • ˚F: Temperature is displayed in Fahrenheit.
  • 1˚C: Temperature is displayed in Centigrade in 1-degree increments. This item will not appear on a sub remote controller.

[2] Room temperature display (The factory default setting is “Yes”)
  • Yes: Room temperature appears on the Main display.
  • No: Room temperature does not appear on the Main display.

Note: Even when “Yes” is set, the room temperature is not displayed on the Main display in the “Basic” mode.

[3] Auto mode setting (The factory default setting is “Yes”)
  • Yes: “AUTO COOL” or “AUTO HEAT” is displayed during operation in the AUTO (single set point) mode.
  • No: Only “AUTO” is displayed during operation in the AUTO (single set point) mode.

Press the button to save the settings.

Navigating through the screens

• To go back to the Main menu ……………… button
• To return to the previous screen …………… button

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Auto mode setting

Whether or not to use the Auto (single set point) or Auto (dual set points) mode can be selected by using the button. This setting is valid only when indoor units with the AUTO mode function are connected.

Button operation

[1] Select “Initial setting” from the Main menu (refer to page 19), and press the button.

Move the cursor to the ”Auto mode” with the F1 or F2 button, and press the button.

[2] Change the setting with the F3 or F4 button.

Press the button to save the changes mode.

Auto mode setting: The factory default setting is “Yes”.
• Yes: The AUTO mode can be selected in the operation mode setting.
• No: The AUTO mode cannot be selected in the operation mode setting.

Navigating through the screens
• To go back to the Main menu ................. button
• To return to the previous screen ............... button
Administrator password setting

The administrator password is required to make the settings for the following items.
- Timer setting
- Energy-save setting
- Weekly timer setting
- Restriction setting
- Outdoor unit silent mode setting
- Night set back

Button operation

[1] Select “Initial setting” from the Main menu (refer to page 19), and press the button.

Move the cursor to the “Administrator password” with the F1 or F2 button, and press the button.

[2] To enter the current Administrator password (4 numerical digits), move the cursor to the digit you want to change with the F1 or F2 button.

Set each number (0 through 9) with the F3 or F4 button.

Press the button.

Note: The initial administrator password is “0000”. Change the default password as necessary to prevent unauthorized access. Have the password available for those who need it.

: If you forget your administrator password, you can initialize the password to the default password “0000” by pressing and holding the F1 and F2 buttons simultaneously for three seconds on the administrator password setting screen.

[3] If the password matches, a window to enter a new password will appear.

Enter a new password in the same way as explained above, and press the button.

[4] Press the F4 button (OK) on the password change confirmation screen to save the change.

Press the F3 button (Cancel) to cancel the change.

Note: The administrator password is required to make the settings for the following items.
- Timer setting  
- Weekly timer setting  
- Energy-save setting  
- Outdoor unit silent mode setting  
- Restriction setting

Refer to the Instruction Book that came with the remote controller for the detailed information about how to make the settings for these items.
Language selection

The desired language can be set. The language options are English, French, German, Spanish, Italian, Portuguese, Swedish, and Russian.

Button operation

Select "Initial setting" from the Main menu (refer to page 19), and press the [✓] button.

Move the cursor to the "Language selection" with the [F1] or [F2] button, and press the [✓] button.

Move the cursor to the language you desire with the [F1] through [F4] buttons, and press the [✓] button to save the setting.

When the power is on for the first time, the Language selection screen will be displayed. Select a desired language. The system will not start-up without language selection.

A screen will appear that indicates the setting has been saved.

Navigating through the screens

• To go back to the Main menu .................. [Page] button
• To return to the previous screen ............. [Cursor] button
Daylight saving time

The start/end time for daylight saving time can be set. The daylight saving time function will be activated based on the setting contents.

- If a given system has a system controller, disable this setting to keep the correct time.
- At the beginning and the end of daylight saving time, the timer may go into action twice or not at all.
- This function will not work unless the clock has been set.

Button operation

Select "Initial setting" from the Main menu (refer to page 19), and press the button.

Move the cursor to the "Daylight saving time" with the F1 or F2 button, and press the button.
Move the cursor to the following items with the F1 button to make the settings.

- **DST**
  Select "No" (disable) or "Yes" (enable) with the F2 button. The default setting is "No."

- **Date(Start)*1**
  Set the day of the week, week number, and month with the F3 or F4 button. The default setting is "Sun/5th/Mar."

- **Start time**
  Set the start time for daylight saving time with the F3 or F4 button.

- **Forward to**
  Set the time when the clock is to be set forward to at the start time above with the F3 or F4 button.

- **Date(End)*1 (2nd page)**
  Set the day of the week, week number, and month with the F3 or F4 button. The default setting is "Sun/5th/Oct."

- **End time (2nd page)**
  Set the end time for daylight saving time with the F3 or F4 button.

- **Backward to (2nd page)**
  Set the time when the clock is to be set backward to at the end time above with the F3 or F4 button.

*1 If "5th" is selected for the week number and the 5th week does not exist in the selected month of the year, the setting is considered to be "4th."

Press the [SELECT] button to save the settings. A confirmation screen will appear.

Navigating through the screens
- To go back to the Main menu .......... [MENU] button
- To return to the previous screen .......... [RETURN] button
Service menu

Maintenance password is required

Button operation

[1] When the Service menu is selected, a window will appear asking for the password.

To enter the current maintenance password (4 numerical digits), move the cursor to the digit you want to change with the F1 or F2 button.

Set each number (0 through 9) with the F3 or F4 button.

Then, press the button.

Note: The initial maintenance password is “9999”. Change the default password as necessary to prevent unauthorized access. Have the password available for those who need it.

If you forget your maintenance password, you can initialize the password to the default password “9999” by pressing and holding the F1 and F2 buttons simultaneously for three seconds on the maintenance password setting screen.

[2] Select “Service” from the Main menu (refer to page 19), and press the button.

*At the main display, the menu button and select “Service” to make the maintenance settings.

[3] If the password matches, the Service menu will appear.

The type of menu that appears depends on the connected indoor units’ type (City Multi or Mr. Slim).

Note: Air conditioning units may need to be stopped to make certain settings. There may be some settings that cannot be made when the system is centrally controlled.

A screen will appear that indicates the setting has been saved.

Navigating through the screens

• To go back to the Main menu ............ button
• To return to the previous screen ............ button
Test run

Refer to the indoor unit Installation Manual for how to make the settings.

Button operation

[1]
Select “Service” from the Main menu (refer to page 19), and press the button.

Select “Test run” with the F1 or F2 button, and press the button.

[2]
Select “Test run” with the F1 or F2 button, and press the button.

Test run operation

Press the F1 button to go through the operation modes in the order of “Cool and Heat”.

- Cool mode: Check the cold air blow off.
- Heat mode: Check the heat blow off.

Press the button and open the Vane setting screen.

Auto vane check

Check the auto vane with the F1 F2 buttons.
* Check the operation of the outdoor unit’s fan.

Press the button to return to “Test run operation”.

Press the button.

When the test run is completed, the “Test run menu” screen will appear.
* The test run will automatically stop after two hours.
Drain pump test run

It is possible to run just the drain pump without running the indoor unit’s fan. Carry this out after completing the indoor and outdoor electrical work.
* Refer to the indoor unit’s installation manual, and confirm that the water is accurately drained, and that no water is leaking from the pipe connections.

Button operation

[1] Service menu 1/2
- Test run
  - Input maintenance info.
  - Function setting
  - Check
  - Self check

Main menu: 

Select “Service” from the Main menu (refer to page 19, and press the button.

Select “Test run” with the F1 or F2 button, and press the button.

[2] Test run menu
- Test run
  - Drain pump test run

Service menu:

Select “Drain pump test run” with the F1 or F2 button, and press the button.

[3] Drain pump test run 2:08
- Drain pump Off
- Pump On/Off:

Start the drain pump test run.

Press the button.

* The drain pump will be prepared for the “Drain pump test run”, and the test run will start.

[4] Drain pump test run 2:08
- Drain pump On
- Pump On/Off:

Check the drain pump’s operation state.

End the drain pump test run.

Press the button.

The drain pump test run will be finished, and then the “Test run menu” screen will appear.
* The drain pump test run will automatically stop after two hours.
Input maintenance info.

Select "Input maintenance info." from the Service menu to bring up the Maintenance information screen. Refer to the indoor unit Installation Manual for how to make the settings.

Button operation

[1] Select "Service" from the Main menu (refer to page 19), and press the button.

Select "Input maintenance info." with the F1 or F2 button, and press the button.

Model name input

[2] Select "Model name input" with the F1 or F2 button, and press the button.

Select the Ref. address, Outdoor unit and Indoor unit to be registered.

<For Mr.Slim>

"Refrigerant address" setting [0] to [15]

<For City Multi>

"M-NET address" setting [1] to [255]

*Only a connected address can be selected.

Press the button.

The registered model information can be copied and pasted into the refrigerant address/M-NET address units.

- F3 button: Copies the model information for the selected address.
- F4 button: Overwrites the copied model information onto the selected address.
Model name input.

Select the unit to be registered with the [F1] and [F2] buttons.

<For Mr.Slim>

- Setting the “Registered unit” [OU] / [IU1] to [IU4]
  - OU: Outdoor unit
  - IU1: Indoor unit No. 1
  - IU2: Indoor unit No. 2
  - IU3: Indoor unit No. 3
  - IU4: Indoor unit No. 4
  - IU2 to IU4 may not appear depending on the type of connected air conditioner (single, twin, triple, quadruple).

Move the input cursor to the left and right with the [F1] and [F2] buttons, and select the letters with the [F3] and [F4] buttons.

- Input letters
  Select from: A, B, C, D ... Z, 0, 1 2 ... 9, -, space
  *Model names can be input up to 18 letters.

Press the [✔] button.

- Repeat the above step, and register the model names for the outdoor unit and indoor unit of the selected refrigerant address and M-NET address.
- Changing the refrigerant address and M-NET address
  After the model name is registered above, press the [✔] button. The "3" screen will appear. Change the refrigerant address and M-NET address, and using the previous procedure input the Model name.

Serial No. input

<For Mr.Slim>

Select "Serial No. input" on the Maintenance information screen, and press the [✔] button.

Register the Serial No. with the procedure given in [3] [4].
*Serial No. can be input up to 8 letters.
Select "Dealer information input" on the Maintenance information, and press the \( [\checkmark] \) button.

The current settings will appear. Then press the \( [\checkmark] \) button again.

Move the input cursor to the left and right with the \( \text{F1} \) and \( \text{F2} \) buttons, and select the letters with \( \text{F3} \) and \( \text{F4} \) buttons.

- **Input letters**
  Select from: 0, 1, 2, ..., 9, - , space
  *Dealer information can be input up to 13 letters.

Press the \( [\checkmark] \) button.

---

Select "Initialize maintenance info." on the Maintenance information, and press the \( [\checkmark] \) button.

Select "Model/Serial No. information" and press the \( [\checkmark] \) button.

A confirmation screen will appear asking if you want to reset the Model/Serial No. information.

Press the \( \text{F4} \) button (OK) to reset the Model/Serial No information.
Dealer information reset.

Select "Initialize maintenance info." on the Maintenance information, and press the button.

Select "Dealer information" and press the button.

A confirmation screen will appear asking if you want to reset the Dealer information.

Press the button (OK) to reset the Dealer information.
Function setting (Mr. Slim)

Button operation

[1] Service menu

- Test run
- Input maintenance info.
- Function setting
- Check
- Self check

Main menu:

F1 F2 F3 F4

Select "Service" from the Main menu (refer to page 19), and press the button.

Select "Function setting" with the F1 or F2 button, and press the button.

[2] Function setting

- Ref. address
- Unit No.
- Grp. 1/2/3/4/All

Monitor:

F1 F2 F3 F4

Set the indoor unit refrigerant addresses and unit numbers with the F1 through F4 buttons, and then press the button to confirm the current setting.

<Checking the indoor unit No.>

When the button is pressed, the target indoor unit will start fan operation. If the unit is common or when running all units, all indoor units for the selected refrigerant address will start fan operation.

Make the settings for the indoor unit functions via the remote controller as necessary.

Select "Function setting" from the Service menu to bring up the Function setting screen.

[3] Function setting

- Ref. address
- Unit #1 (1/4)
- Grp. 1/2/3/4/All

F1 F2 F3 F4

When data collection from the indoor units is completed, the current settings appears highlighted.

Non-highlighted items indicate that no function settings are made.

Screen appearance varies depending on the "Unit No." setting.

[4] Function setting

- Ref. address
- Unit #1 (1/4)

Use the F1 or F2 button to move the cursor to select the mode number, and change the setting number with the F3 or F4 button.

Individual items

(Unit No.1 through 4)
When the settings are completed, press the button to send the setting data from the remote controller to the indoor units.

When the transmission is successfully completed, the screen will return to the Function setting screen.

note: • Make the above settings only on Mr. Slim units as necessary.
  • The above function settings are not available for the City Multi units.
  • Table 1 summarizes the setting options for each mode number. Refer to the indoor unit Installation Manual for the detailed information about initial settings, mode numbers, and setting numbers for the indoor units.
  • Be sure to write down the settings for all functions if any of the initial settings has been changed after the completion of installation work.

<Table1> Function setting options

<table>
<thead>
<tr>
<th>Mode No.</th>
<th>Mode</th>
<th>Settings</th>
<th>Setting No.</th>
<th>Unit numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Automatic recovery after power failure</td>
<td>Disable</td>
<td>1</td>
<td>Set &quot;Grp.&quot; for the Unit number. These settings apply to all the connected indoor units.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enable (Four minutes of standby time is required after the restoration of power.)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>Thermistor selection (indoor temperature detection)</td>
<td>Average temperature reading of the indoor units in operation</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Thermistor on the indoor unit to which the remote controller is connected (fixed)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Built-in sensor on the remote controller</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>LOSSNAY connection</td>
<td>Not connected</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connected (without outdoor air intake by the indoor units )</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connected (with outdoor air intake by the indoor units )</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>Power voltage</td>
<td>240 V</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>220 V, 230 V</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>05</td>
<td>AUTO mode</td>
<td>Enable (Automatically the unit achieves effective energy saving operation.)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Disable</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>07</td>
<td>Filter sign</td>
<td>100 hours</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2500 hours</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not displayed</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>08</td>
<td>Fan speed</td>
<td>Silent mode (or standard)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard (or High ceiling 1)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>High ceiling (or High ceiling 2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>Outlet</td>
<td>4 directional</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 directional</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 directional</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Optional parts (High-efficiency filter)</td>
<td>No</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Vane</td>
<td>No vanes (or the vane setting No.3 is effective.)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Equipped with vanes (The vane setting No.1 is effective.)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Equipped with vanes (The vane setting No.2 is effective.)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Function setting (City Multi)

Make the indoor units’ function settings from the remote controller as necessary.
- The following settings should be made only for City Multi units and as necessary.
- Refer to the Installation Manual for how to make the settings for Mr. Slim units.
- Refer to the indoor unit Installation Manual for information about the factory settings of indoor units, function setting numbers, and setting values.
- When changing the indoor units' function settings, record all the changes made to keep track of the settings.

Button operation

Select “Service” from the Main menu (refer to page 19), and press the button.

Select “Function setting” with the F1 or F2 button, and press the button.

The Function Setting screen will appear.
Press the F1 or F2 button to move the cursor to one of the following: M-NET address, function setting number, or setting value.

Then, press the F3 or F4 button to change the settings to the desired settings.

Once the settings have been completed, press the button.
A screen will appear that indicates that the settings information is being sent.

To check the current settings of a given unit, enter the setting for its M-NET address and function setting number, select Conf for the Function, and press the button.
A screen will appear that indicates that the settings are being searched for. When the search is done, the current settings will appear.
When the settings information has been sent, a screen will appear that indicates its completion.

To make additional settings, press the button to return to the screen shown in Step 3 above. Set the function numbers for other indoor units by following the same steps.

<table>
<thead>
<tr>
<th>M-NET address</th>
<th>Function No.</th>
<th>Data</th>
<th>Setting completed</th>
</tr>
</thead>
</table>

Navigating through the screens
• To return to the Service Menu screen ........................................ button
• To return to the previous screen ................................................ button
This setting is required only when the operation of City Multi units is interlocked with LOSSNAY units. This setting is not available for the Mr. Slim units. Interlock settings can be made for the indoor unit to which the remote controller is connected. (They can also be confirmed or deleted.)

Note:
• Use the centralized controller to make the settings if it is connected.
• To interlock the operation of the indoor units with the LOSSNAY units, be sure to interlock the addresses of all indoor units in the group and that of the LOSSNAY unit.

Button operation

[1] Select "Service" from the Main menu (refer to page 19), and press the button.

Select "Lossnay" with the F1 or F2 button, and press the button.

F1 F2 F3 F4

[2] When "Lossnay" on the Service menu is selected, the remote controller will automatically begin searching for the registered LOSSNAY addresses of the currently connected indoor unit.

Lossnay
IU address
Lossnay address
Collecting data

[3] When the search is completed, the smallest address of the indoor units that are connected to the remote controller and the address of the interlocked LOSSNAY unit will appear. "--" will appear if no LOSSNAY unit is interlocked with the indoor units.

If no settings need to be made, press the button to go back to the Service menu.

Lossnay
IU address
Lossnay address
Function Select: Conf/Del.

Select: Address Select: 

F1 F2 F3 F4

Press
To make LOSSNAY interlock setting

Enter the addresses of the indoor unit and the LOSSNAY unit to be interlocked, with the F1 through F4 buttons, select "Set" in the "Function", and press the button to save the settings.

"Sending data" will appear on the screen. If the setting is successfully completed, "Setting completed" will appear.

To search for the LOSSNAY address

Enter the address of the indoor unit to which the remote controller is connected, select "Conf" in the "Function", and press the button.

"Collecting data" will appear on the screen. If the signal is received correctly, the indoor unit address and LOSSNAY address will appear. "--" will appear when no LOSSNAY unit is found. "Unit not exist" will appear if no indoor units that are correspond to the entered address are found.

To delete the interlock setting

To delete the interlocked setting between LOSSNAY unit and the indoor units to which the remote controller is connected, enter the indoor unit address and LOSSNAY address with the F1 through F4 buttons, select "Del." in the "Function", and press the button. "Deleting" will appear.

The screen will return to the search result screen if the deletion is successfully completed. "Unit not exist" will appear if no indoor units that are correspond to the entered address are found. If deletion fails, "Request rejected" will appear on the screen.
Error history

Button operation

[1] Select "Service" from the Main menu (refer to page 19), and press the \( \checkmark \) button.

Select "Check" with the \( F_1 \) or \( F_2 \) button, and press the \( \checkmark \) button.

[2] <For Mr.Slim>

Select "Error history" with the \( F_1 \) or \( F_2 \) button, and press the \( \checkmark \) button.

[3] Error history

Select "Error history" from the Check menu, and press the \( \checkmark \) button to view up to 16 error history records.

Four records are shown per page, and the top record on the first page indicates the latest error record.

[4] Deleting the error history

To delete the error history, press the \( F_4 \) button (Delete) on the screen that shows error history.

A confirmation screen will appear asking if you want to delete the error history.

Press the \( F_4 \) button (OK) to delete the history.

"Error history deleted" will appear on the screen.

Press the \( \checkmark \) button to go back to the Check menu screen.
Refrigerant leak check
Refrigerant leakage is detected after a long time.
To enable this function, the refrigerant volume must be saved (initial learning) after installation. Always operate this function in the following manner after installation.
- Always perform test run before using this function, and confirm that the air conditioner operates normally.
- To accurately detect refrigerant leaks, set the wind speed to strong, and execute this operation.

* "Refrigerant leak check" is valid only with models which support the refrigerant leak check function.

Button operation

1. Select "Service" from the Main menu (refer to page 19), and press the button.
2. Select "Check" with the F1 or F2 button, and press the button.
3. Select "Refrigerant leak check" with the F1 or F2 button, and press the button.

Stable mode will start.
Press the button, stable mode will start.
*Stable mode will take approx. 20 minutes.

The operation data will appear.
The following value is the reference for the refrigerant volume check. If the refrigerant is leaking, "NG" will appear.
The refrigerant volume check reference value can be changed with the function selection.
Default value (Z)RP71 – : 80%
– (Z)RP50 : 70%

<Resetting the initial learning data>
If the unit has been relocated or if refrigerant has been additionally charged, the initial learning data must be reset and learning performed again.
How to reset the data:
1. Turn the main power OFF.
2. Attach the short-circuit pin for the emergency operation connector (CN31) on the outdoor controller board to the ON side.
3. Turn ON the test run switch (SW4-1) on the outdoor controller board.
4. The data will be reset when the main power is turned ON.
5. Turn the main power OFF.
6. Turn OFF the test run switch (SW4-1).
7. Return the short-circuit pin for the emergency operation connector (CN31) to the OFF side.

* Under the following conditions, it may not be possible to carry out stable operation or accurately detect refrigerant leaks.
  - When the outdoor intake temperature is 40°C or higher, or when the indoor intake temperature is 23°C or less.
  - When the indoor fan speed is not set to strong.
**Smooth maintenance**

Maintenance data, such as the indoor/outdoor unit’s heat exchanger temperature and compressor operation current can be displayed with “Smooth maintenance”.

* This cannot be executed during test operation.
* Depending on the combination with the outdoor unit, this may not be supported by some models.

**Button operation**

1. Select “Service” from the Main menu (refer to page 19), and press the button.

2. Select “Check” with the F1 or F2 button, and press the button.

3. Select “Smooth maintenance” with the F1 or F2 button, and press the button.

   - Set each item.
     - Select the item to be changed with the F1 or F2 button.
     - Select the required setting with the F3 or F4 button.

   - Press the button, Fixed operation will start.
     - Stable mode will take approx. 20 minutes.

4. The operation data will appear.

   - The Compressor-Accumulated operating (COMP. run) time is 10-hour unit, and the Compressor-Number of operation times (COMP. On / Off) is a 100-time unit (fractions discarded).

**Navigating through the screens**

- To go back to the Main menu .......... button
- To return to the previous screen .......... button
Details on the operation data including each thermistor temperature and error history can be confirmed with the remote controller.

### Button operation

1. Select "Service" from the Main menu (refer to page 19), and press the button.
2. Select "Check" with the F1 or F2 button, and press the button.
3. Select "Request code" with the F1 or F2 button, and press the button.

#### Set the Refrigerant address and Request code.

Select the item to be changed with the F1 or F2 button.

Select the required setting with the F3 or F4 button.

- **<Ref.address>** setting [0] – [15]
- **<Request code>** setting [Refer to next page]

Press the button, Data will be collected and displayed.

#### <Operation state> (Request code "0")

<table>
<thead>
<tr>
<th>Display</th>
<th>Operation mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>STOP • FAN</td>
</tr>
<tr>
<td>C</td>
<td>COOL • DRY</td>
</tr>
<tr>
<td>H</td>
<td>HEAT</td>
</tr>
<tr>
<td>d</td>
<td>Defrost</td>
</tr>
</tbody>
</table>

#### 2) Relay output state

<table>
<thead>
<tr>
<th>Display</th>
<th>Power currently supplied to compressor</th>
<th>Compressor</th>
<th>Four-way valve</th>
<th>Solenoid valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>1</td>
<td>—</td>
<td>—</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>ON</td>
</tr>
<tr>
<td>3</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>ON</td>
</tr>
<tr>
<td>4</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>ON</td>
</tr>
<tr>
<td>5</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>ON</td>
</tr>
<tr>
<td>6</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>ON</td>
</tr>
<tr>
<td>7</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>ON</td>
</tr>
<tr>
<td>8</td>
<td>—</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>A</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
</tbody>
</table>
### Request Cord list

*The Request code 150 – 152 data is the information for the indoor unit to which the remote controller is connected.*

<table>
<thead>
<tr>
<th>Request code</th>
<th>Request content</th>
<th>Description (Display range)</th>
<th>Unit</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Operation state</td>
<td>Refer to &quot;Operation mode&quot;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Compressor - Operating current (rms)</td>
<td>0 – 50</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Compressor - Accumulated operating time</td>
<td>0 – 9999</td>
<td>10 hours</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Compressor - Number of operation times</td>
<td>0 – 9999</td>
<td>100 times</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Discharge temperature (TH4)</td>
<td>3 – 217</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Outdoor unit - Liquid pipe 1 temperature (TH3)</td>
<td>-40 – 90</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Outdoor unit - 2 phase pipe temperature (TH6)</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Outdoor unit - Outside air temperature (TH7)</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Outdoor unit - Heatsink temperature (TH8)</td>
<td>-40 – 200</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Discharge superheat (SHd)</td>
<td>0 – 255</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Sub - cool (SC)</td>
<td>0 – 130</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Compressor - Operating frequency</td>
<td>0 – 255</td>
<td>Hz</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Outdoor unit - Fan output step</td>
<td>0 – 10</td>
<td>Step</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>LEV (A) opening</td>
<td>0 – 500</td>
<td>Pulses</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Indoor unit - Setting temperature</td>
<td>17 – 30</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Indoor unit - Intake air temperature &lt;Measured by thermostat&gt;</td>
<td>8 – 39</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Indoor unit - Liquid pipe temperature (Unit No.1)</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Indoor unit - Liquid pipe temperature (Unit No.2)</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Indoor unit - Liquid pipe temperature (Unit No.3)</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Indoor unit - Liquid pipe temperature (Unit No.4)</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Indoor unit - Cond./ Eva. pipe temperature (Unit No.1)</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Indoor unit - Cond./ Eva. pipe temperature (Unit No.2)</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Indoor unit - Cond./ Eva. pipe temperature (Unit No.3)</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Indoor unit - Cond./ Eva. pipe temperature (Unit No.4)</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Outdoor unit - Error postponement history 1 (latest)</td>
<td>Displays postponement code (&quot;--&quot; is displayed if no postpone- ment code is present)</td>
<td>Code</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Error history 1 (latest)</td>
<td>Displays error history (&quot;--&quot; is displayed if no history is present)</td>
<td>Code</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Error history 2 (Second to last)</td>
<td>Displays error history (&quot;--&quot; is displayed if no history is present)</td>
<td>Code</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Operation mode at time of error</td>
<td>Displayed in the same way as request code &quot;0&quot;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Indoor - Actual intake air temperature</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Indoor - Liquid pipe temperature</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Indoor - 2 phase pipe temperature</td>
<td>-39 – 88</td>
<td>°C</td>
<td></td>
</tr>
</tbody>
</table>
Select "Service" from the Main menu (refer to page 19), and press the button.

Select "Self check" with the F1 or F2 button, and press the button.

With the F1 or F2 button, enter the refrigerant address (Mr. Slim) or the M-NET address (City Multi), and press the button.

Error code, unit number, attribute, and indoor unit demand signal ON / OFF status at the contact (City Multi only) will appear. 
"-" will appear if no error history is available.

Resetting the error history.
Press the F4 button (Reset) on the screen that shows the error history.

A confirmation screen will appear asking if you want to delete the error history.

Press the F4 button (OK) to delete the error history.

If deletion fails, "Request rejected" will appear. 
"Unit not exist" will appear if no indoor units that are correspond to the entered address are found.

Navigating through the screens
• To go back to the Main menu .......... F4 button
• To return to the previous screen ........ button
## Maintenance password

### Button operation

1. **Select “Service” from the Main menu (refer to page 19), and press the ** button.**
   
2. **Select “maintenance password” with the F1 or F2 button, and press the ** button.**
   
3. **Move the cursor to the digit you want to change with the F1 or F2 button, and set each digit to the desired number (0 through 9) with the F3 or F4 button.**
   
4. **Press the ** button to save the new password.**
   
5. **A confirmation screen will appear asking if you want to change the maintenance password.**
   
6. **Press the F4 button (OK) to save the change.**
   
7. **Press the F3 button (Cancel) to cancel the change.**
   
8. **“Changes saved” will appear when the password is updated.**
   
**Press the ** button to return to the Service menu or press the ** button to go back to the "Maintenance password" screen.**

### Note:
The default maintenance password is "9999". Change this password if necessary so that settings cannot be changed by persons other than the administrator.

Store the password where it can be accessed if necessary.

### Navigating through the screens

- To go back to the Main menu ............. ** button
- To return to the previous screen ........ ** button
Remote controller check

When the remote controller does not work properly, use the remote controller checking function to troubleshoot the problem.

**Button operation**

1. Select "Service" from the Main menu (refer to page 19), and press the button.
   - Select "Remote controller check" with the F1 or F2 button, and press the button.

2. Select "Remote controller check" from the Service menu, and press the button to start the remote controller check and see the check results.
   - To cancel the remote controller check and exit the Remote controller check menu screen, press the or the button.
   - The remote controller will not reboot itself.

3. Remote controller check results screen
   - OK: No problems are found with the remote controller. Check other parts for problems.
   - E3, 6832: There is noise on the transmission line, or the indoor unit or another remote controller is faulty. Check the transmission line and the other remote controllers.
   - NG (ALL0, ALL1): Send-receive circuit fault. Remote controller needs replacing.
   - ERC: The number of data errors is the discrepancy between the number of bits in the data transmitted from the remote controller and that of the data that was actually transmitted over the transmission line. If data errors are found, check the transmission line for external noise interference.

   If the button is pressed after the remote controller check results are displayed, remote controller check will end, and the remote controller will automatically reboot itself.

Check the remote controller display and see if anything is displayed (including lines). Nothing will appear on the remote controller display if the correct voltage (8.5 – 12 VDC) is not supplied to the remote controller. If this is the case, check the remote controller wiring and indoor units.
1. Component names and supplied parts

The following parts are included in the box.

<table>
<thead>
<tr>
<th>Parts name</th>
<th>Qty.</th>
<th>Appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote controller (front cover)</td>
<td>1</td>
<td>Right figure 1</td>
</tr>
<tr>
<td>Remote controller (top case)</td>
<td>1</td>
<td>Right figure 2</td>
</tr>
<tr>
<td>Remote controller (bottom case)</td>
<td>1</td>
<td>Right figure 3</td>
</tr>
<tr>
<td>Roundhead cross slot screws M4×30</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Wood screw 4.1×16 (for direct wall installation)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Installation Manual</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Simple Operation Manual</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CD-ROM (Instruction Book and Installation Manual)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

*4 The front cover (*1) is already installed on the top case (*2) at factory shipment.
*5 Remote controller cable is not included.

2. Field-supplied parts/Required tools

(1) Field-supplied parts

The following parts are field-supplied parts.

<table>
<thead>
<tr>
<th>Parts name</th>
<th>Qty.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double switch box</td>
<td>1</td>
<td>Not required for direct wall installation</td>
</tr>
<tr>
<td>Thin metal conduit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lock nut and bushing</td>
<td></td>
<td>Necessary</td>
</tr>
<tr>
<td>Cable cover</td>
<td></td>
<td>Required for routing remote controller cable along a wall</td>
</tr>
<tr>
<td>Putty</td>
<td></td>
<td>Reasonable</td>
</tr>
<tr>
<td>Molly anchor</td>
<td></td>
<td>Necessary</td>
</tr>
<tr>
<td>Remote controller cable (Use a 0.3 mm² (AWG22) 2-core sheathed cable.)</td>
<td></td>
<td>Necessary</td>
</tr>
</tbody>
</table>

(2) Field-supplied tools

- Flat-tip screwdriver (Width: 4 – 7 mm (5/32 – 9/32 inch)) or Plate service tool (Part No. R6100835)
- Nipper
- Miscellaneous tools

3. Selecting an installation site

This remote controller is for the wall installation. It can be installed either in the switch box or directly on the wall. When performing direct wall installation, wires can be thread through either back or top of the remote controller.

(1) Selecting an installation site

Install the remote controller (switch box) on the site where the following conditions are met.

(a) For connection to the indoor unit with an Auto descending panel, a place where people can check the Auto descending panel operation of the indoor unit while they are operating the remote controller (Refer to the indoor unit Instructions Book for how to operate Auto descending panel.)

(b) A flat surface

(c) A place where the remote controller can measure the accurate indoor temperature

Sensors to monitor indoor temperature are on the indoor unit and on the remote controller. When the room temperature is monitored with the sensor on the remote controller, the main remote controller monitors the room temperature. When using the sensor on the remote controller, follow the instructions below.

- To monitor the accurate indoor temperature, install the remote controller away from direct sunlight, heat sources, and the supply air outlet of the air conditioner.
- Install the remote controller in a location that allows the sensor to measure the representative room temperature.
- Install the remote controller where no wires are routed around the temperature sensor on the controller.

(If wires are routed, the sensor cannot measure accurate indoor temperature.)
4. Installation / Wiring work

(1) Installation work
Controller can be installed either in the switch box or directly on the wall. Perform the installation properly according to the method.

① Drill a hole in the wall.
- Installation using a switch box
  - Drill a hole in the wall, and install the switch box on the wall.
  - Connect the switch box to the conduit tube.
- Direct wall installation
  - Drill a hole in the wall, and thread the cable through it.

② Seal the cable access hole with putty.
- Installation using a switch box
  - Seal the remote controller cable access hole at the connection of switch box and conduit tube with putty.

To reduce the risk of electric shock, malfunctions, or fire, seal the gap between the cables and cable access holes with putty.

③ Prepare the bottom case of the remote controller.

④ Connect the remote controller cable to the terminal block on the bottom case.
Peel off 6 mm of the remote controller cable sheath as shown in the figure below, and thread the cable from behind the bottom case. Thread the cable to the front of the bottom case so that the peeled part of the cable cannot be seen behind the bottom case. Connect the remote controller cable to the terminal block on the bottom case.

«Important»

Do not install the controller in a place where the difference between the remote controller surface temperature and the actual room temperature will be great. If the temperature difference is too high, room temperature may not be adequately controlled.

To avoid deformation and malfunction, do not install the remote controller in direct sunlight or where the ambient temperature may exceed 40°C (104°F) or drop below 0°C (32°F).

To reduce the risk of shorting, current leakage, electric shock, malfunctions, smoke, or fire, do not install the controller in a place exposed to water or in a condensing environment.

(2) Installation space
Leave a space around the remote controller as shown in the figure at right, regardless of whether the controller is installed in the switch box or directly on the wall. Removing the remote controller will not be easy with insufficient space. Also, leave an operating space in front of the remote controller.
● Direct wall installation
  • Seal the hole through which the cable is threaded with putty.

To reduce the risk of electric shock, shorting, or malfunctions, keep wire pieces and sheath shavings out of the terminal block.

**Important**

Do not use solderless terminals to connect cables to the terminal block. Solderless terminals may come in contact with the circuit board and cause malfunctions or damage the controller cover.

6. **Install the bottom case.**

- Installation using a switch box
  • Secure at least two corners of the switch box with screws.

- Direct wall installation
  • Thread the cable through the groove.
  • Secure at least two corners of the remote controller with screws.
  • Be sure to secure top-left and bottom-right corners of the remote controller (viewed from the front) to prevent it from lifting. (Use molly anchor etc.)

"Important"

To avoid damage to the controller, do not overtighten the screws.

To avoid damage to the controller, do not make holes on the controller cover.

6. **Cut out the cable access hole.**

- Direct wall installation (when running the cable along the wall)
  • Insert a flat-tip screwdriver with a blade width of 4-7 mm (5/32-9/32 inch) or a Plate service tool into either of the two latches at the bottom of the remote controller, and move it in the direction of the arrow as shown in the figure at right.
  • The top case will come loose from the front cover. Pull the top case toward you to remove it.
  • Cut out the thin-wall part on the front cover (indicated with the shaded area in the right figure) with a nipper.
    (This cutout hole will be used to thread the remote controller cable through, after the cable is threaded through the groove on the back of the bottom case.)
  • Place the top case onto the front cover.

"Notice"

To prevent damage to the circuit board, remove the front cover from the top case before cutting out a cable access hole.
Securely connect the connectors.

«Important»
To prevent malfunctions, do not remove the protective film or the circuit board from the casing.
To prevent cable breakage and malfunctions, do not hang the top controller casing hang by the cable.

8. Route the wire to the top case.

«Important»
Hold the cables in place with clamps to prevent undue force from being applied to the terminal block and causing cable breakage.

9. Install the front cover and top case on the bottom case.
Two mounting tabs are at the top of the top case. (A cover is already installed on the case at the time of factory shipment.) Hook those two tabs onto the bottom case, and click the top case into place. Check that the case is securely installed and not lifted.

«Important»
When attaching the cover and the top casing to the bottom casing, push it until it click into place.
If they are not properly locked into place, they may fall, causing personal injury, controller damage, or malfunctions.

- Direct wall installation (when running the cable along the wall)
  - Thread the cable through the access hole at the top of the remote controller.
  - Seal the cut-out part of the cover with putty.
  - Use a cable cover.

Installation is complete.
Follow the instructions below when uninstalling them.
<Uninstalling the front cover and top case>

1. Uninstalling the front cover
Insert a flat-tip screwdriver or a Plate service tool into either of the two latches at the bottom of the remote controller, and move it in the direction of the arrow as shown in the figure at right. Note that the top case may also be removed if the driver or the tool is inserted deeply.

2. Uninstalling the top case
Insert a flat-tip screwdriver or a Plate service tool into either of the two latches at the bottom of the remote controller, and move it in the direction of the arrow as shown in the figure at right.

**Important**

Use a flat-head screwdriver with a blade width of 4-7 mm (5/32-9/32 inch). The use of a screwdriver with a narrower or wider blade tip may damage the controller casing.

To prevent damage to the control board, do not insert the driver into the slot strongly.

To prevent damage to the controller casing, do not force the driver to turn with its tip inserted in the slot.

3. Installing the cover and top case
Two mounting tabs are at the top of the top case. Hook those two tabs onto the bottom case, and click the top case into place. Install the cover on the top case in the same way as with the top case. Check that the top case is securely installed and not lifted.

**Important**

When attaching the cover and the top casing to the bottom casing, push it until it they click into place. If they are not properly locked into place, they may fall, causing personal injury, controller damage, or malfunctions.

### 5. Important

- Discrepancy between the indoor temperature measured at the wall and the actual indoor temperature may occur. If the following conditions are met, the use of the temperature sensor on the indoor unit is recommended.
  - Supply air does not reach to the wall easily where the remote controller is installed due to improper airflow distribution.
  - There is a great discrepancy between the wall temperature and the actual indoor temperature.
  - The back side of the wall is directly exposed to the outside air.

**Note**

When temperature changes rapidly, the temperature may not be detected accurately.
6. Connecting the transmission wire

The remote controller wiring differs according to whether it is connected to a multi air conditioner or Mr. Slim air conditioner. The method also varies according to the system configuration. Always check before starting.

(1) Connecting to a multi air conditioner
(a) to (d) in the following figure correspond to (a) to (d) in the explanations.

(a) Wiring the remote controller and indoor unit
- Connect to the terminal block (TB15) for the indoor unit’s MA remote controller wire.
- Connect to the remote controller’s terminal block (symbol A, B). The terminal block has no polarity.

(b) When operating groups (Group 03 and 04 above)
- Use a crossover wire between the terminal block (TB15) for the MA remote controller wires of the indoor units to be operated in a group, and connect the remote controller to the crossover.
- When using with the MELANS system controller as shown above, the group must be set on the system controller (central controller shown above).

(c) Overall distance of remote controller cable, and number of connectable remote controllers
   The restrictions differ according to the connected indoor unit. Refer to the catalog or system design and work manual, etc.
   The overall distance when connecting one remote controller is 200m.

(d) When running a LOSSNAY in conjunction, refer to the Installation Manual (Setting Section) and set the remote controller.

(2) Connecting to Mr. Slim air conditioner
The remote controller wiring will vary according to the system configuration. Refer to the following example, and connect.
(a) to (c) in the following figure correspond to (a) to (c) in the explanations.

When connecting a remote controller for each refrigerant system (Standard 1:1, Twin, Triple, Quadruple)
**When grouping in different refrigerant systems**

- The refrigerant address is set with the outdoor unit’s DIP switch. (Refer to the Outdoor Unit Installation Manual for details.)
- All indoor units enclosed in the box are controlled as one group.

(a) Wiring the remote controller and indoor unit
- Connect to the terminal block (TB5) for the indoor unit’s remote controller wire. (The terminal block has no polarity.)
- When using the simultaneous multi-type and different indoor unit models exist, always connect the remote controller to the indoor unit having the most functions (wind speed, vane, louver, etc.).

(b) Wiring to group with different refrigerant systems
- Groups are formed with the remote controller cables. Use crossover wires between the remote controller terminal blocks (TB5) of the main indoor unit in each refrigerant system to be grouped.
- If there are different indoor unit models in the same group, always use the outdoor unit to which the indoor unit with most functions (wind speed, vane, louver, etc.) is connected as the main unit (refrigerant address = 00).
- If the main unit is a simultaneous multi-type, make sure that the conditions in (a) above are satisfied.
- Up to 16 refrigerant systems can be controlled as one group using the MA remote controller.

(c) Up to two remote controllers can be connected to one group.
- If two remote controllers are connected to one group, always set the main remote controller and sub remote controller.
- If only one remote controller is connected to the group, always set the main remote controller. If two remote controllers are connected to one group, set each remote controller as the main or sub remote controller. (Refer to the Installation Manual (Setting Section.)

(d) Overall distance of remote controller cable
- The overall distance is 500m. Use a 0.3m² 2-core cable for the remote controller cable. (Procure locally.)
- The overall distance is 200m when two remote controllers are connected.

**Note**
- Do not use a crossover wire between the remote controller terminal blocks (TB5) for the indoor units within the same refrigerant system.
- The system may not operate correctly if a crossover wire is used.

When connecting to the remote controller terminal block (TB5) of the indoor unit, up to two wires having the same size can be connected to one terminal block.
- Improper connections can result in contact defects or wire disconnection.

Do not use crossover wires between the remote controllers.
- Only one wire can be connected to the remote controller’s terminal block.
## System control (for Mr. Slim)

### Variety Of System Function

<table>
<thead>
<tr>
<th>System Name</th>
<th>System Diagram</th>
<th>Features</th>
<th>Parts Required in Addition</th>
</tr>
</thead>
</table>
| **A. Remote controller operation (Standard)**    | ![Diagram]     | • There are 2 types of remote controllers: wired type and wireless type.  
• Simultaneous twin, triple and quad units are counted as 1 unit, and the indoor units are started or stopped simultaneously.                     | —                                                                                                                     |
| **B. Remote controller operation**                | ![Diagram]     | • Up to 2 remote controllers can be connected to one group.  
• Simultaneous twin, triple and quad units are counted as 1 unit.  
• Operation control by the latest command (last entered priority)  
• Wired and wireless remote controllers can be combined as a pair.                                      | Wired remote controller (additional) (PAR-33MAA)  
For PKA-M-HAL/KAL, use remote controller PAC-SH29TC-E with terminal block kit. |
| **C. Group control operation**                    | ![Diagram]     | • 1 group can consist of up to 16 indoor units, and they can be started sequentially by connecting the remote controller to them and assigning an address to each outdoor unit.  
• Simultaneous twin, triple and quad units are counted as 1 unit.  
• All the units belonging to the same group are operated in the same mode, but thermostats can be turned ON/OFF individually for each outdoor unit.  
• Up to 2 remote controllers can be connected.                                      | Wired remote controller (additional) (PAR-33MAA)  
For PKA-M-HAL/KAL, use remote controller PAC-SH29TC-E with terminal block kit. |
| **D. Remote / local combined control operation**  | ![Diagram]     | • All the air conditioners can be turned ON/OFF collectively from a distance.  
• Operations (e.g., temperature adjustment, airflow, airflow direction) except for start/stop operations can be performed even if operations from the local remote controller are prohibited.  
• In the case of simultaneous twin, triple, and quadruple units, connect the controller to one indoor unit only.  
• If connected to 2 or more indoor units, an error (operation stop) may occur. Control by an external timer is possible by connecting it. | Remote ON/OFF adapter (PAC-SE55RA-E)  
Relay box (Part to be provided at your site)  
Remote operating panel (Part to be provided at your site) |
| **E. Operation by external signal**               | —              | Use of optional "remote ON/OFF adapter" enables remote control via relay. (Level signal)                                                                                                               | Remote ON/OFF adapter (PAC-SE55RA-E)                                                                                 |
| **F. Control and remote display by external signal (extraction of monitor signal)** | ![Diagram]     | Extraction of non-voltage contact output  
Use of optional "remote operation adapter" and "remote display panel" (Part to be provided at your site) provides non-voltage contact outputs of signals (operation, error) and operation / stop input function.  
Extraction of DC12 V contact output  
Use of optional "Multiplex remote controller adapter" and "remote display panel" (Part to be provided at your site) provides DC12 V contact outputs of signals (operation, error) and operation / stop input function. | Remote operation adapter (PAC-SF40RM-E)  
Remote display panel (Part to be provided at your site)  
Multiple remote controller adapter (PAC-SA88HA)  
Remote display panel (Part to be provided at your site) |
### G. Timer operation

Enables control of start and stop.

* For control by external timer, refer to Remote/local combined control operation*.

- **Weekly timer:** In addition to ON/OFF, up to 8 temperature patterns can be set for each day of the week.
  - Only 1 timer can be selected; the auto off, simple and weekly timers cannot be combined.
  - **Simple timer:** Start and stop operations can each be performed once within 72 hours (can be set in 1-hour increments).
  - **Auto off timer:** Operation is stopped when the pre-set time elapses following the start of operation. The time can be set from 30 minutes to 4 hours in 30-minute increments.
  - Only one timer can be selected; the simple and auto off timers cannot be combined.

Parts Required in Addition to Standard System Components (Indoor / Outdoor Units, Remote Controller)

- **MA Remote controller** (PAR-33MAA)

### H. Interlock operation with peripheral equipment

Enables control of Mitsubishi Lossnay ventilator by remote controller.

- Connecting a Lossnay ventilator and an indoor unit enables control of interlock/solo ventilation operation and airflow. (Only the microcomputer type Lossnay ventilator can be used.)

### I. Central control

- Connecting the M-NET connection adapter to Indoor unit enables connection of MELANS system controller (for M-NET).
- When using A-control operation, the number of indoor units in a MELANS system is limited to the number of outdoor units. (Simultaneous twin, triple, and quadruple units are counted as 1 unit.)
- Number of controlled outdoor units
  - **Central controller:** 50 units

Parts Required in Addition to Standard System Components (Indoor / Outdoor Units, Remote Controller)

- **M-NET adapter** (Option PARTS)
  - **Central controller** (AE-200E)

### J. Demand control

- Demand control is available by external input. In this mode, power consumption is decreased within the range of usual 0-100%.

Parts Required in Addition to Standard System Components (Indoor / Outdoor Units, Remote Controller)

- **Adapter to input external demand signals** (PAC-SC36NA-E)
  - **Relay box** (Part to be provided at your site)
  - **Remote operating panel** (Part to be provided at your site)
1. Remote Controller (Standard) Operation

1-1. Wired Remote Controller
(OC: Outdoor unit IC: Indoor unit R: Remote controller (for wireless type: optical receiver adapter)

<table>
<thead>
<tr>
<th>Slim Air Conditioners System</th>
<th>Standard 1:1</th>
<th>Simultaneous Twin</th>
<th>Simultaneous Triple</th>
<th>Simultaneous Quadruple</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor unit OC</td>
<td>OC</td>
<td>OC</td>
<td>OC</td>
<td>OC</td>
</tr>
<tr>
<td>Indoor unit IC</td>
<td>IC-1</td>
<td>IC-1</td>
<td>IC-2</td>
<td>IC-3</td>
</tr>
<tr>
<td>Wired remote controller R</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>R</td>
</tr>
</tbody>
</table>

* Numbers given in ( ) apply when power is supplied to the indoor and outdoor units separately.

<Reference>
1) If simultaneous twin, triple or quadruple, connect the remote controller to any one of the indoor units. All functions of the indoor unit can be controlled even if different models (different types) are mixed.
2) Do not use crossover wiring among indoor units with simultaneous twin, triple or quadruple units. (Prohibited item.)
3) Electrical wiring diagram

![System Diagram](image)

1-2. Wired Remote Controller or Wireless Remote Controller Receiver Built into Indoor Unit

<table>
<thead>
<tr>
<th>Slim Air Conditioners System</th>
<th>Standard 1:1</th>
<th>Simultaneous Twin</th>
<th>Simultaneous Triple</th>
<th>Simultaneous Quadruple</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor unit OC</td>
<td>OC</td>
<td>OC</td>
<td>OC</td>
<td>OC</td>
</tr>
<tr>
<td>Indoor unit IC</td>
<td>IC-1</td>
<td>IC-1</td>
<td>IC-2</td>
<td>IC-3</td>
</tr>
<tr>
<td>Wireless remote controller receiver section R*</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>R</td>
</tr>
</tbody>
</table>

(Reference)
1) If simultaneous twin, triple or quadruple connect the remote controller to an indoor unit. All functions of the indoor unit can be controlled even if different models (different types) are mixed. Note that there may be some restrictions of the functions.
2) Do not use crossover wiring among indoor units with simultaneous twin, triple or quadruple units. (Prohibited item.)
3) Electrical wiring diagram

![System Diagram](image)
2. 2-remote Controller Operation

2-1. 2 Wired Remote Controllers

<table>
<thead>
<tr>
<th>Slim Air Conditioners System</th>
<th>Standard 1:1</th>
<th>Simultaneous Twin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor unit OC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indoor unit IC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wired remote controller R</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Numbers given in ( ) apply when power is supplied to the indoor and outdoor units separately.

<Reference>
1) If simultaneous twin, triple or quadruple, connect the remote controller to any one of the indoor units. All functions of the indoor unit can be controlled even if different models (different types) are mixed.
2) Do not use crossover wiring among indoor units with simultaneous twin, triple, and quadruple units. (Prohibited item.)
3) Set one of the remote controllers as the main controller (initial setting) and the other as the sub controller using the remote controller's function selection.

2-2. 1 Wired and 1 Wireless Remote Controller

<table>
<thead>
<tr>
<th>Slim Air Conditioners System</th>
<th>Standard 1:1</th>
<th>Simultaneous Twin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor unit OC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indoor unit IC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wired remote controller R</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Numbers given in ( ) apply when power is supplied to the indoor and outdoor units separately.

<Reference>
1) If simultaneous twin, triple or quadruple, connect both the wired remote controller and wireless remote controller receiver to any one of the indoor units. All the functions of the indoor unit can be controlled even if different models (different types) are mixed.
2) Do not use crossover wiring among indoor units with simultaneous twin, triple, and quadruple units. (Prohibited item.)
3) When using 2 or more remote controllers, the display contents on the remote controllers may differ from the actual settings, since the operation mode last by any of the wireless remote controllers will be effective.
3. Group Control Operation
(Collective Operation And Control Of Multiple Refrigerant Systems (2 to 16))

- Multiple Mr.Slim air conditioners can be operated with the same settings (e.g., operation mode, preset temperature, etc.) by using 1 remote controller. Each outdoor unit can be turned ON / OFF individually by the intake sensor.
- Up to 16 refrigerant systems can be controlled as a group by 1 remote controller.
- A refrigerant address must be set for each outdoor unit. Addresses "0" to "15" can be set with no duplicates. Address "0" must be set for one of the outdoor units.
  * In the case of simultaneous twin, triple units, only 1 refrigerant system is used.

### System diagram
(Wired remote controller, wireless remote controller)

<table>
<thead>
<tr>
<th>Outdoor unit OC</th>
<th>Indoor unit IC</th>
<th>Wired remote controller R</th>
</tr>
</thead>
<tbody>
<tr>
<td>OC-A 3(2)</td>
<td>IC-A 2</td>
<td>R</td>
</tr>
<tr>
<td>OC-B 3(2)</td>
<td>IC-B 2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outdoor unit OC</th>
<th>Indoor unit IC</th>
<th>Wireless remote controller receiver section R</th>
</tr>
</thead>
<tbody>
<tr>
<td>OC-A 3(2)</td>
<td>IC-A 2</td>
<td>R</td>
</tr>
<tr>
<td>OC-B 3(2)</td>
<td>IC-B 2</td>
<td></td>
</tr>
</tbody>
</table>

* Numbers given in ( ) apply when power is supplied to the indoor and outdoor units separately.

### <Reference>
1) For 2-remote controller control, refer to "2-1. 2-Remote Controller Operation". However, when using both wired and wireless remote controllers, receivers must be connected to indoor units that are connected by crossover wiring.

2) Connect an indoor unit having the highest functions among the group to the outdoor unit assigned to refrigerant address "0" (Refer to the example given below). The remote controller operation follows the function of the unit that has the highest functions among the group.

### Function specifications <Example>

<table>
<thead>
<tr>
<th>Item</th>
<th>4-way ceiling cassette</th>
<th>Ceiling suspended</th>
<th>Ceiling suspended (suitable for kitchen)</th>
<th>Wall mounted</th>
<th>Floor standing</th>
<th>Ceiling concealed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan</td>
<td>Notch</td>
<td>4 speed + Auto</td>
<td>2 speed</td>
<td>3 speed + Auto</td>
<td>2 speed</td>
<td>3 speed + Auto</td>
</tr>
<tr>
<td>Up/down vane</td>
<td>Presence / absence</td>
<td>5 direction + Auto</td>
<td>5 direction + Auto</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Function</td>
<td></td>
<td>Swing function</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Left/right swing louver</td>
<td>Presence / absence</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

3) In the case of free component multi type systems consisting of simultaneous twin, triple, and quad units, the indoor units should not be connected by crossover wiring. (Prohibited)

4) PKA-M HAL/KAL models do not have a remote controller terminal block. Attach the terminal block for remote controller (option).

### <System diagram>

Indoor unit (Main unit) Ref. address "0"
Indoor unit (Sub unit) Ref. address "01"
Indoor unit (Sub unit) Ref. address "02"
Indoor unit (Sub unit) Ref. address "15"

Outdoor unit No.(Ref.address) 00 01 02 15 Setting by the switch
Indoor unit No. 1 1 1 1
Remote controller feeding (Indoor unit : Main) – – – 1 Auto configuration
<Work procedures>
- Connect the remote controller to one of the indoor units, and connect each refrigerant system with a crossover wire. Always wire from the indoor unit.
- Set the refrigerant address for each outdoor unit, and turn the power ON.
- Set the refrigerant address before turning the power ON.
- The power for the remote controller is supplied from the address 00 indoor unit. (LED2 on the indoor control board will light.)

<Outdoor unit address setting>
- For group control, an address must be set for each outdoor unit.
- To set addresses to outdoor units, use the DIP switch SW1 (3-6) provided on each outdoor control board (Initial setting: All are set to "OFF").
- Address setting by SW1 is as follows.

<table>
<thead>
<tr>
<th>SW1 Function selection</th>
<th>Operation by switch</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Forced defrosting</td>
<td>Start</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Error history clear</td>
<td>Clear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Refrigerant address setting</td>
<td>Used to set outdoor unit addresses</td>
<td>&quot;0&quot; to &quot;15&quot;.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>↑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>↑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>↑</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Checking the outdoor unit refrigerant addresses
To find the location of an outdoor unit with a specific refrigerant address, specify the address in self-diagnosis mode. The outdoor unit will operate intermittently.

<Sequential Start Timer>
The refrigerant address also acts as a sequential start timer (one-second interval) to suppress the rush current. The initial refrigerant address is 0. In this case, the sequential start timer is "0", and the delay time is * 0 to 9. Depending on the combination of the No. 3 to 6 switch settings, the units can be sequentially started at one-second intervals between 1 to 15 (delay time is 10 to 24).
* Differs according to the remote controller operation timing.
(Example) Sequential start timer 12 = 8 + 4 → Switch No. 5 and 6 ON

Refrigerant address setting and sequential start timer following SW1 (No. 3 to 6) switch operations

<table>
<thead>
<tr>
<th>Setting details</th>
<th>ON</th>
<th>ON</th>
<th>ON</th>
<th>ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerant address</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Sequential start timer</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Delay timer (Sec.)</td>
<td>10</td>
<td>11</td>
<td>13</td>
<td>17</td>
</tr>
</tbody>
</table>

* Indicates switch position

<Confirming the outdoor unit address>
To determine which outdoor unit corresponds to the designated refrigerant address, designate the refrigerant address with the self-diagnosis mode. The designated outdoor fan will run intermittently.
With the initial setting (refrigerant address 0), the sequential start timer is "0" and the delay time is * 0 to 9.
4. Power Outage Automatic Recovery Operation

- Whenever a power outage or switching of the power supply causes the power supply of an operating air conditioner to go from OFF to ON, this function will automatically restore the operation of the air conditioner to its previous operating mode.
- If the power is turned from OFF to ON when the air conditioner is not in operation, the air conditioner will not automatically be turned on. However, the timer operation will be cancelled if the air conditioner is in timer operation (including when the unit is waiting for its start time). Setting for timer operation must be performed once again.
- If there is a momentary power outage of less than 1 second while the air conditioner is in operation, there may not be a clear determination of whether or not there was a power failure. When it has been determined that there has been a power failure, recovery will take approximately 4 minutes after the power is restored. So please wait. (Once "PLEASE WAIT" has appeared on the display, a protection system will operate to prevent the unit from restarting for 3 minutes.)
- When it has been determined that there has been no power failure, operation will continue as is.
- Settings can be made by function selections from the remote controller.
- When there is group control, selection of all refrigerants is required.

Judging a power outage during an instantaneous power failure
When an instantaneous power failure occurs, the air conditioner judges that a power outage has occurred depending on the length of the power failure as shown below.

If it is determined that a power outage has occurred, the air conditioner will stop. (Even if the power is recovered after the instantaneous power failure, the air conditioner will remain stopped.)

<table>
<thead>
<tr>
<th>Instantaneous power failure</th>
<th>Time for unit operation to change after power outage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard model (model without inverter): approx. 40ms</td>
</tr>
<tr>
<td></td>
<td>Inverter model: approx. 100ms (Varies according to the power voltage during operation and the operation state.)</td>
</tr>
</tbody>
</table>

**What occurs after the above time elapses?**

- Operation stop
  - (An error extension occurs when the outdoor unit’s compressor over-current shutoff occurs, so the operation may restart after three minutes. The time that an error extension occurs varies according to the operation load and power voltage.)

**What happens when the power is restored?**

- Operation remains stopped. However, when automatic restart after power failure is set, the state will return to the pre-power failure state.

<table>
<thead>
<tr>
<th>Power outage lasting more than one minute</th>
<th>What happens when the power fails?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Operation stops</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>What happens when the power is restored?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation remains stopped. However, when automatic restart after power failure is set, the state will return to the pre-power failure state.</td>
</tr>
</tbody>
</table>

**Unit operation during power outage**

- If automatic restart after power failure is set, the unit can be restored to the pre-power failure state after the power is recovered. (Note) Automatic restart after power failure can be set with the remote controller function settings.

* To return the air conditioner to the pre-power failure operation state after the power is restored (to resume operation if the air conditioner was running, or stay stopped if it was stopped), enable the "automatic restart after power failure" mode with the remote controller function selection.

After the power is restored, the air conditioner will resume operation after the system startup time (20 seconds to 1 minute) and the balance time to protect the compressor (3 minutes) have elapsed.

5. Individual Control Operation From A Separate Room

- By simply centralizing the remote controllers installed in each room in a separate control room, individual control or centralized monitoring of the air conditioners in each room can be attained.
- Air conditioner control can be performed up to a total of 500 meters away by connecting the indoor units and remote controllers with 0.3 to 1.25 mm² 2-core cable.

- If a remote controller is installed in a room and control room, refer to the section on operating with 2 remote controllers.
6. Mode set by external input

6.1 Low-level sound priority mode (Local wiring)
By performing the following modification, operation noise of the outdoor unit can be reduced by about 3-4 dB. The low noise mode will be activated when a commercially available timer or the contact input of an ON/OFF switch is added to the CNDM connector (option) on the control board of the outdoor unit.

- The ability varies according to the outdoor temperature and conditions, etc.

1. Complete the circuit as shown when using the external input adapter (PAC-SC36NA-E). (Option)
2. SW7-1 (Outdoor unit control board): OFF
3. SW1 ON: Low noise mode
   SW1 OFF: Normal operation

6.2 On demand control (Local wiring)
By performing the following modification, energy consumption can be reduced to 0–100% of the normal consumption. The demand function will be activated when a commercially available timer or the contact input of an ON/OFF switch is added to the CNDM connector (option) on the control board of the outdoor unit.

1. Complete the circuit as shown when using the external input adapter (PAC-SC36NA-E). (Option)
2. By setting SW7-1 on the control board of the outdoor unit, the energy consumption (compared to the normal consumption) can be limited as shown below.

<table>
<thead>
<tr>
<th>Demand function</th>
<th>SW7-1</th>
<th>SW2</th>
<th>SW3</th>
<th>Energy consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ON</td>
<td>OFF</td>
<td>75%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ON</td>
<td>ON</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>ON</td>
<td>0%</td>
<td></td>
</tr>
</tbody>
</table>

- **Operation when using both remote controller settings and external input**
  When using both the remote controller and external input, the lower setting value will be valid.
### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product size</strong></td>
<td>120(W) × 120(H) × 19(D) mm (4 3/4 × 4 3/4 × 3/4 [in] (not including the protruding part)</td>
</tr>
<tr>
<td><strong>Net weight</strong></td>
<td>0.25kg (9/16lb.)</td>
</tr>
<tr>
<td><strong>Rated power supply voltage</strong></td>
<td>12V DC (supplied from indoor units)</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>0.3W</td>
</tr>
<tr>
<td><strong>Usage environment</strong></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>0 – 40°C (32 - 104°F )</td>
</tr>
<tr>
<td>Humidity</td>
<td>30 – 90%RH (with no dew condensation)</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td></td>
</tr>
<tr>
<td>Panel</td>
<td>PMMA</td>
</tr>
<tr>
<td>Main body</td>
<td>PC + ABS</td>
</tr>
<tr>
<td><strong>Sound Pressure Level</strong></td>
<td>The A-weighted sound pressure level is below 70dB</td>
</tr>
</tbody>
</table>

### Connection model

<table>
<thead>
<tr>
<th>Unit controlled</th>
<th>This manual explains the methods of connecting to the Mr.slim air conditioner.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr.Slim Air conditioners Indoor unit (A controlled)</td>
<td></td>
</tr>
<tr>
<td>Multi air conditioners Indoor unit</td>
<td></td>
</tr>
<tr>
<td>Multi air conditioners LOSSNAY *1</td>
<td></td>
</tr>
</tbody>
</table>

*1. Connecting via an indoor unit (Direct connection not possible)
## Function list (as of February 1, 2017)

<table>
<thead>
<tr>
<th>Function</th>
<th>CITY MULTI</th>
<th>Mr. Slim</th>
<th>Required password</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operation/Display</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power ON/OFF</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Operation mode switch</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Room temperature setting</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Auto (dual set point) mode</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Fan speed setting</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Vane angle setting</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Louver setting</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Ventilation setting</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>High power operation</td>
<td>×</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Auto descending panel</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Backlight</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Contrast setting</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Main display mode switch</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Clock setting</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Clock display format setting</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Language selection (8 languages)</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Daylight saving time</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Room temperature display</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Error display</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Filter information</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td><strong>Schedule/Timer</strong></td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>On/Off timer</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Auto-off timer</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Weekly timer</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Night setback</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>OÜ silent mode</td>
<td>×</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td><strong>Energy saving</strong></td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Auto return</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Schedule</td>
<td>×</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td><strong>Restriction</strong></td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Operation lock</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Temperature range restriction</td>
<td>○</td>
<td>○</td>
<td>administrator</td>
</tr>
<tr>
<td>Password (Administrator and Maintenance)</td>
<td>○</td>
<td>○</td>
<td>administrator maintenance</td>
</tr>
<tr>
<td><strong>Others</strong></td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Manual vane angle</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>3D i-See sensor</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
<tr>
<td>Test run</td>
<td>○</td>
<td>○</td>
<td>maintenance</td>
</tr>
<tr>
<td>Model information input</td>
<td>○</td>
<td>○</td>
<td>maintenance</td>
</tr>
<tr>
<td>Dealer information input</td>
<td>○</td>
<td>○</td>
<td>maintenance</td>
</tr>
<tr>
<td>Function setting</td>
<td>○</td>
<td>○</td>
<td>maintenance</td>
</tr>
<tr>
<td>Smooth maintenance</td>
<td>×</td>
<td>○</td>
<td>maintenance</td>
</tr>
<tr>
<td>Refrigerant volume check</td>
<td>×</td>
<td>○</td>
<td>maintenance</td>
</tr>
<tr>
<td>Refrigerant leak check</td>
<td>×</td>
<td>○</td>
<td>maintenance</td>
</tr>
</tbody>
</table>

* The supported functions vary depending on the unit model.
Outline dimensions

(Front view) 120 [4-23/32]

(Side view) 19 [3/4]

(Rear view) 83.5 [3-9/32]

Unit: mm [in.]
### List of functions that can/cannot be used in combination

<table>
<thead>
<tr>
<th></th>
<th>High power</th>
<th>On/Off timer</th>
<th>Auto-off timer</th>
<th>Weekly timer</th>
<th>OU silent mode</th>
<th>Temperature range</th>
<th>Operation lock</th>
<th>Auto return</th>
<th>Energy saving schedule</th>
<th>Night setback</th>
</tr>
</thead>
<tbody>
<tr>
<td>High power</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>On/Off timer</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>Auto-off timer</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>Weekly timer</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>OU silent mode</td>
<td>△</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Temperature range</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Operation lock</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto return</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Energy saving schedule</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Night setback</td>
<td>●</td>
<td>●</td>
<td>△</td>
<td>△</td>
<td>△</td>
<td>△</td>
<td>△</td>
<td>△</td>
<td>△</td>
<td>●</td>
</tr>
</tbody>
</table>

- ○: Can be used in combination
- △: Restricted
- ●: Cannot be used in combination

**△1**: This function is enabled after completing the high power operation because the high power operation has the higher priority.

**△2**: This function cannot be operated if some operation is locked.

**△3**: Night setback function cannot be used when the unit is in operation by On/Off timer setting.

**△4**: Auto-off function cannot be used for Night setback operation.

**△5**: Night setback function cannot be used when the unit is in operation by Weekly timer setting.

**△6**: Temperature range setting cannot be used for Night setback operation.

**△7**: Auto return function cannot be used for Night setback operation.

**X 1**: Weekly timer setting is not effective because On/Off timer has the higher priority.

**X 2**: Auto return function cannot be used because Temperature range setting has the higher priority.
NOTICE

- Do not install indoor units in areas (e.g., mobile phone base stations) where the emission of VOCs such as phthalate compounds and formaldehyde is known to be high as this may result in a chemical reaction.
- Our air-conditioning equipments and heat pumps contain a fluorinated greenhouse gas, R410A.
- When installing or relocating or servicing the air conditioners, use only the specified refrigerant (R410A) to charge the refrigerant lines. Do not mix it with any other refrigerant and do not allow air to remain in the lines.
  - If air is mixed with the refrigerant, then it can be the cause of abnormal high pressure in the refrigerant lines, and may result in an explosion and other hazards.
  - The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.

Eco Changes is the Mitsubishi Electric Group’s environmental statement and expresses the Group’s stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.