Before using the controller, read this Instruction Book carefully to ensure proper operation. Retain this Instruction Book for future reference. Make sure that this manual as well as the Installation Manual are passed on to any future air condition system users. To ensure safety and proper operation of the unit, the unit should only be installed by qualified personnel.
Safety Precautions

Thoroughly read the following safety precautions prior to installation.

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

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

**Nomenclature**

(Potential actions) (Do not touch) (No water) (No wet hands) (Electric shock hazards) (Injury hazards) (Important actions)

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 AT-50A users.

All electric work must be performed by qualified personnel.

**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.

To reduce the risk of electric shock, malfunctions, smoke or fire, do not operate the switches/buttons or touch other electrical parts with wet hands.

**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 electric shock or malfunctions, do not touch the touch panel, switches, or buttons with a pointy or sharp object.

**Precautions during installation**

**WARNING**

Do not install the controller where there is a risk of leaking flammable gas.

If flammable gas accumulates around the controller, it may ignite and cause a fire or explosion.

Properly dispose of the packing materials. Plastic bags pose suffocation hazard to children.

**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 reduce the risk of shorting, electric shock, fire, or malfunction, do not touch the circuit board with tools or with your hands, and do not allow dust to accumulate on the circuit board.

**Additional precautions**

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

AT-50A is designed for exclusive use with the Building Management System by Mitsubishi Electric. The use of this controller for other systems or for other purposes may cause malfunctions.

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

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.

To avoid damage to the controller, provide protection against static electricity.

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

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To avoid damage to the controller, provide protection against static electricity.
### Function List

The table below summarizes the functions that are available on the AT-50A. Refer to the pages listed for details.

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit Operation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ON/OFF Operation</td>
<td>Switches the ON/OFF operation of the units such as air conditioning units. The LED on the Collective ON/OFF button will light up when one or more units are in operation and off when all units are stopped.</td>
<td>18</td>
</tr>
<tr>
<td>Mode</td>
<td>Switches the mode “Cooling/Dry/Fan/Auto/Heating” for each group or all groups. (Switches the mode “Bypass/Heat recovery/ Auto” for LOSSNAY groups.)</td>
<td>18</td>
</tr>
<tr>
<td>Set Temperature</td>
<td>Sets the set temperature for each group or all groups.</td>
<td>20</td>
</tr>
<tr>
<td>Fan Speed</td>
<td>Adjusts the fan speed for each group or all groups.</td>
<td>21</td>
</tr>
<tr>
<td>Air Direction</td>
<td>Adjusts the air direction for each group or all groups.</td>
<td>21</td>
</tr>
<tr>
<td>Louver</td>
<td>Enables/disables the louvers for each group or all groups.</td>
<td>21</td>
</tr>
<tr>
<td>ON/OFF Operation for Interlocked Ventilation</td>
<td>The ON/OFF operation of the interlocked ventilation unit is interlocked with the ON/OFF operation of the air conditioning unit. The interlocked ventilation units can be independently operated for ON (High/Low)/OFF for each group or all groups. (When the ventilation unit is interlocked with the air conditioning unit, the ventilation mode cannot be used.)</td>
<td>21</td>
</tr>
<tr>
<td>Collective Operation</td>
<td>The following functions can be collectively executed on multiple groups: Setback, Schedule, Mode, Temperature Correction, RC Prohibition.</td>
<td>19</td>
</tr>
<tr>
<td><strong>Time and Schedule</strong></td>
<td></td>
<td>27</td>
</tr>
<tr>
<td>Date and Time</td>
<td>Sets the date, time, and display formats. The current time will appear at the top-right corner of the HOME screen.</td>
<td>27</td>
</tr>
<tr>
<td>Weekly/1-day schedule</td>
<td>Allows the user to set the Weekly schedule for each group.</td>
<td>27</td>
</tr>
<tr>
<td>• Maximum of 16 events can be scheduled for each day.</td>
<td>-maximum of 12 patterns can be configured for the Weekly schedule, and 5 for 1-day schedule.</td>
<td>27</td>
</tr>
<tr>
<td>• Two types of weekly schedule (Summer/Winter) can be set.</td>
<td>1-day schedule overrides the Weekly schedule.</td>
<td>27</td>
</tr>
<tr>
<td>Setback Control</td>
<td>The function helps keep the indoor temperature in the temperature range while the units are stopped and during the time this function is effective.</td>
<td>35</td>
</tr>
<tr>
<td>Disabling scheduled operation</td>
<td>Scheduled operation can be temporarily disabled. This setting must be set to OFF to run scheduled operation.</td>
<td>22</td>
</tr>
<tr>
<td><strong>System Management</strong></td>
<td></td>
<td>59</td>
</tr>
<tr>
<td>System-Changeover</td>
<td>Automatically switches the entire system (all indoor units that are connected to the same outdoor units) to Cooling or Heating by periodically monitoring the room temperature and the preset temperature of each group and determining the best operation mode.</td>
<td>59</td>
</tr>
<tr>
<td>• The System-Changeover function is not available for the following types of products: Simultaneous Cooling/Heating units (with automatic mode change function), Mr. SLIM®, LOSSNAY, and DIDO controller.</td>
<td>59</td>
<td></td>
</tr>
</tbody>
</table>

*1: Available functions vary depending on the unit type. Only the functions that are supported by the connected units can be controlled from the AT-50A.
Names and Functions of Controller Components

Product features

The AT-50A described in this manual is a centralized controller with color LCD touch panel for air conditioning units, LOSSNAY, and General equipment using the Mitsubishi Electric DIDO controller (PAC-YG66DCA).

AT-50A can control up to 50 units/50 groups. (*1)
AT-50A controls and monitors the air conditioning units of each group. AT-50A also can control detailed scheduling and prohibits the local remote controller operation in each room (group), which may lead to energy savings.

Basic operations are accessed through the AT-50A touch panel. ON/OFF, F1, and F2 operations that control air conditioning units collectively are accessed by using buttons next to the touch panel.

AT-50A display screen consists of three types, corresponding to the usage.
- **HOME screen**: Monitoring screen to monitor the operation status of the units (described in this Instruction Book)
- **Main Menu screen**: Setting screen to set the functions such as schedule settings (described in this Instruction Book)
- **Maintenance screen**: Initial setting screen to set the basic systems such as group settings (described in the Installation Manual)

* 1 Group: minimum unit to be controlled by AT-50A

A group consists of units (16 units maximum).

Touch panel / Buttons

1. **Display/Touch panel**
   AT-50A features a 5" color LCD touch panel. Touch panel displays the operation status of the units. Function settings such as week schedule settings are accessed through the touch panel. The backlight lights up when the panel is touched, and lights off after certain period of time. The backlight will remain lit as long as an error exists.

2. **Collective ON/OFF** Button *1
   The Collective ON/OFF button enables the collective ON/OFF function that allows the user to turn on/off the air conditioning units, LOSSNAY, and DIDO controllers in all groups collectively. The indicator corresponds to the operation status of controlled units.
   - **Unlit**: Indicates that all units are stopped.
   - **Lit**: Indicates that one or more units are in operation.
   - **Blink**: Indicates that an error is occurring.

3. **Function 1** Button (F1), 4. **Function 2** Button (F2) *1 *2
   Desired functions from the following list can be assigned to the F1 and F2 buttons.
   (Setback/Schedule/Operation Mode/Temperture Correction/Remote Controller Prohibition)
   The functions to assign to these buttons can be selected from the Function Key Setting on the Control Panel.
   The indicator on the buttons indicates the enabled/disabled status of the function.
   - **Unlit**: The assigned function is disabled.
   - **Lit**: The assigned function is enabled.
   The indicators on the F1 and F2 buttons will be lit or unlit when the functions that are assigned to the F1 and F2 buttons are enabled or disabled from the Collective Operation panel.

4. **Power indicator**
   The power indicator lights up when the power to AT-50A is turned on.
   - **Unlit**: Power OFF
   - **Lit**: Power ON

* 1 When the button is pressed while the operation is prohibited, the LED will blink twice.
* 2 Buttons 2, 3, and 4 are available only on the HOME screen.
Screen Configuration [HOME screen]

1. How to switch the HOME screen
   Touch tabs to change the display format.
   - : Displays the GRID screen.
   - : Displays the GRID (zoom-out) screen.
   - : Displays the GRID (zoom-in) screen.
   - : Displays the LIST screen.
   - : Displays the GROUP screen.

2. How to move to the Main Menu screen
   : Displays the Main Menu screen.

3. How to move to the Maintenance screen
   Refer to the Installation Manual.
Buttons [HOME screen]

**HOME screen**

**GRID (zoom-out) screen**
Displays the operation status of all groups. The button layout varies with the number of the registered groups.

**GRID (zoom-in) screen**
Displays the detailed operation status of each group. (10 groups on 5 pages maximum)

**LIST screen**
Displays the detailed operation status of each group with group name. (5 groups on 10 pages maximum)

**GROUP screen**
Displays the detailed operation status of each group. (When the air conditioning units are controlled)

**GRID screen button**
Displays the GRID screen.

**LIST screen button**
Displays the LIST screen.

**GROUP screen button**
Displays the GROUP screen.

**MAIN MENU screen button**
Displays the MAIN MENU screen.

**Operation lock button**
Locks or unlocks the buttons on the AT-50A. Press and hold the button for two seconds to lock or unlock the buttons. The locked/unlocked status icon will appear on the buttons.

**Operation lock button**
Press and hold the button for two seconds to lock or unlock the buttons. The locked/unlocked status icon will appear on the buttons.

**Select All button**
Selects/Deselects groups collectively. Adds check marks to all selected icons.

**GRID (zoom-out/zoom-in) screen button**
- : Displays the zoom-out screen.
- : Displays the zoom-in screen.

**“Access the Collective Operation panel” button**
Press this button to bring up the collective operation panel. (Refer to P19 for information about the collective operation panel.)

**GRID (zoom-out/zoom-in) screen button**
- : Displays the zoom-out screen.
- : Displays the zoom-in screen.

**Move-to-the-selected-group button**
Moves to the GROUP screen of the selected group. Moves to the Multiple group selection screen when multiple groups are selected. Refer to P23 “Multiple group selection screen” for details.

**Page button**
Flips through pages.

**Display selection button**
Shows/Hides the display for the information below.
- Set temperature
- Scheduled operation is enabled.

**Group button**
Switches the group to be displayed.

**Mode button**
Switches the operation mode of the air conditioning units and LOSSNAY.

**Set temperature button**
Adjusts the set temperature by using the + and – buttons. Set temperature appears above the button.

**“Disable scheduled operation” button**
Use this button to temporarily disable the scheduled operation on the display. The indicator on the button will remain lit when the function is enabled. The scheduled operation will not be run when the icon is displayed.

**Interlocked ventilation (LOSSNAY)/Air direction/Fan speed/Louver setting button**
Displays the popup window of Interlocked ventilation (LOSSNAY)/Air direction/Fan speed/Louver setting screen.

* Refer to P21 “Interlocked ventilation units (LOSSNAY)/Fan speed/Air direction/Louver settings” for the popup window.

**ON/OFF button**
Changes the operation to ON/OFF.

**Fan speed selection button**
Switches LOSSNAY fan speed between Lo and High.

**Current time**
Displays the current time.

**Current page/Total pages**
Displays the Current page/Total page number.

---

**Note:** Depending on the units to be controlled and AT-50A settings, available button operations and displays vary.

- While the icon is displayed on the button, the operation is locked.

---

**Sample displays above are for default setting: Operation mode 2.**

---

**Operation mode 1**

**Operation mode 2**

**Operation mode 3**

---

**Lossnay**

---

**Buttons**

---

**Note:** Depending on the units to be controlled and AT-50A settings, available button operations and displays vary.
Icon Displays [HOME screen]

(1) GRID (zoom-out) screen

[ON (BG Color: blue)]
Group No.

[OFF (BG Color: black)]
[Error (BG Color: yellow)]

(2) GRID (zoom-in) screen

[Air conditioning]

[LOSSNAY group]

[General equipment group]

[Error (BG Color: yellow)]
[Air conditioning unit/LOSSNAY/General equipment group]

(3) LIST screen

Error:
Displays when an error occurs.
Startup (communication) error:
Displays as well as the error display when a startup (communication) error occurs.
Filter sign:
Displays when filter needs maintenance.
During scheduled operation:
Displays during scheduled operation.

When the "Disable scheduled operation" button is enabled:
Displays when the "Disable scheduled operation" button is enabled.

Room temperature:
Display ranges 8-39°C (46-102°F). When the temperature is beyond the range, 8°C (46°F) or 39°C (102°F) will blink on the display.
When multiple air conditioning units (indoor units) are registered to a group, current indoor temperature on the main indoor unit is displayed.

Interlocked ventilation (LOSSNAY):
Displays when there are ventilation units interlocked with the air conditioning (indoor) units in the group.
Icon color indicates the operation status (Blue: ON, Black: OFF).

General equipment icon:
Displays the General equipment type.
Icon Displays [HOME screen]

**Error:**
- Displays  when an error occurs.
- **Startup (communication) error:** Displays  as well as the error display when a startup (communication) error occurs.
- **Filter sign:** Displays  when filter needs maintenance.
- **During scheduled operation:** Displays  during scheduled operation.

**Note:** While the  icon is displayed on the button, the operation is locked.

**When the "Disable scheduled operation" button is enabled:**
- Displays  when the "Disable scheduled operation" button is enabled.

**Room temperature:**
- Display ranges 8-39°C (46-102°F). When the room temperature is beyond the range, 8°C (46°F) or 39°C (102°F) will blink on the display.
- When multiple air conditioning units (indoor units) are registered to a group, current indoor temperature on the main indoor unit is displayed.

**When the Temperature Correction function is enabled:**
- When the Temperature Correction function is enabled, the corrected temperature will appear in the green outline font.

**Interlocked ventilation (LOSSNAY):**
- Displays the operation status of the ventilation that is interlocked with the air conditioning (indoor) units.

**General equipment icon:**
- Displays the General equipment type.
Basic Operations

Screen selection
GRID (zoom-out) screen appears at the initial startup. Select the desired screen.

GRID (zoom-out) screen

1. Operation mode 1, 2, 3

When the Group icon is touched, the action differs depending on the operation mode. Operation mode consists of three modes (shown below), and default is set to the operation mode 2. Refer to P41 for changing the mode.

- **Operation mode 2**: Appears in the area marked ②. Allows the user to select groups to be operated. Moves to the Group screen.

  Touch the Group icon to select the group to be operated. Groups can be selected on the GRID or the LIST screens.
  Touch the Group icon to switch between displaying check marks (selected) and hiding check marks (deselected). Touch ③ to select all groups.
  Touch the Group icons of the groups to be operated, and then touch ② to move to the Group screen.

  The number of selected groups = 1: The selected group appears on the Group screen.
  The number of selected groups > 1: The Multiple group selection screen appears.
  (The selected groups can be operated collectively.)

- **Operation mode 3**: Nothing appears in the area marked ②. Moves to the Group screen by touching the Group icon ①.

- **Operation mode 1**: Appears in the area marked ②. Stops or starts the operation of the air conditioning units through Group icon ①.

  *ON/OFF operation lock*
  When AT-50A restricts its own ON/OFF operation, the icon above will appear. The ON/OFF operation will be disabled.

  *During receiving the external input signal*
  The ON/OFF function cannot operate when the following displays appear.
  - Displays the emergency stop level-signal input
  - Displays ON/OFF level-signal input

  When the group icon button is set to the operation mode 1

- **Operation mode 3**: Nothing appears in the area marked ②.
Basic Operations

**Operation Screen (Group screen)**

Operating the Air conditioning unit group

**Basic Operations (GROUP screen)**

1. 
2. 
3. 
4. 
5.

**ON/OFF operation**

Touching ③ allows the indoor units in the displayed group to start/stop. When interlocked ventilation units (LOSSNAY) are connected, the ventilation units work in conjunction with indoor units.

**Mode** (useable only while the unit is in operation)

Touch ② to access the modes in order of “Cooling, Dry, Fan, Auto, and Heating.” The selected mode will appear in the area labeled ①.

*Refer to P51 for Auto mode cooling/heating settings.
*To operate an indoor unit in the heating (cooling) mode while the indoor unit is already operating in the opposite mode, the operation mode cannot be changed until all of the indoor units operate in the same mode or stop. In this case, the mode ① will blink.
*Available mode varies depending on the model. Modes that are unavailable do not appear.
*The operation mode which is restricted by this controller or other controllers cannot be selected.

**Collective Operation Panel**

This panel has the functions that can be executed collectively (Setback, Schedule, Mode, Temperature Correction, RC Prohibition).

Touching the icon at the left bottom of the icon on the GRID or the LIST screen will bring up the Collective Operation panel.

Each button has an indicator and the function name.
The indicators on the buttons show which functions are assigned to which buttons.

*Before using the Collective Operation buttons, the groups to execute collective settings on must be selected, and the parameters must be set from Main Menu>Operation Setting>Collective Operation Setting.
*If ✗ appears on an icon of a given function, the function is not available.

**Performing Collective Operation**

1. On the GRID or the LIST screen, touch the button that brings up the Collective Operation Panel.
2. Select the Collective Operation button on the Collective Operation panel.
3. Press OK on the Collective Operation panel. (Go to 4 if Setback or Mode was selected. Otherwise, the setting is complete.)
4. If Setback or Mode was selected, take the following steps.

When Setback is selected

Select the desired item, and touch OK.

*Scheduled: Scheduled operation is enabled. The units will operate according to the Setback Control settings. (P35)
*Unscheduled: Scheduled operation is disabled. The units will operate according to the Collective Operation settings (Setback). (P39)
*OFF: The Setback function will not be executed.

Regardless of how the above settings are made, the Setback function will not be executed if the operation switch is on.

* A blinking indicator on a button indicates that the function that corresponds to the button cannot be collectively executed. Check the settings for the “Collective Operation Setting.”
Basic Operations

Temperature setting (useable only while the unit is in operation)

Touch to adjust the temperature setting.

(* When fan mode is selected, the temperature setting cannot be made.)

Available set temperature range varies depending on the mode or model.
Cool/Dry : 19°C - 30°C / 67°F - 87°F
Heat : 17°C - 28°C / 63°F - 83°F
Auto : 19°C - 28°C / 67°F - 83°F

Checking the Function button settings

On the GRID or the LIST screen, touch the button that brings up the Collective Operation Panel.

(A) : The function is assigned to the F1 button.
(B) : The function is assigned to the F2 button.
(C) : The function is not assigned to the F1 or F2 button.

Checking the status of the collective operation functions

1. On the GRID or the LIST screen, touch the button that brings up the Collective Operation panel.
2. Check the color of the indicator on the collective operation button.

(Yellow) : The function is enabled.
(Gray) : The function is disabled.

Interlocked ventilation units (LOSSNAY)/Fan speed/Air direction/Louver settings

Touch to show the Interlocked ventilation units (LOSSNAY)/Fan speed/Air direction/ Louver settings screen.

After setting A through D, touch the OK button.
Basic Operations

“Disable scheduled operation” button

The “Disable scheduled operation” function is ON. The “Disable scheduled operation” function is OFF.

Use button ⑤ (P18) to temporarily disable the scheduled operation.
When the function is enabled, the indicator on button ⑤ will light up in yellow.
When this function is enabled, the icon 🗝️ will appear on the screen, and the scheduled operation will not be run.

Operating the LOSSNAY group

Displays that are not marked by numbers on the screen are the same as those on the Air conditioning unit group screen.

Mode

Touch (1) to access the modes in the order *Bypass, Heat recovery, Auto.*
The selected mode will appear in the area marked (2).

*Available mode varies depending on the model.
Modes that are unavailable do not appear.

Fan speed setting

Touch (3) to access the fan speeds in the order *Low, High.*
The selected fan speed will appear in the area marked (4).

Disabling functions

Lock Buttons

When AT-50A locks its own functions for ON/OFF, Mode, Temperature, Fan speed, “Disable scheduled operation” button, the icon above will appear on the corresponding buttons, and the functions will be disabled.
When the ON/OFF function is locked, the Collective ON/OFF button will be enabled.
Example) ON/OFF operation lock

During receiving the external input signal

The ON/OFF function cannot operate when the following displays appear.

Operation restrictions

If the ON/OFF, Mode, and Temperature buttons on the AT-50A are disabled from other controllers, 🛑 will appear on the buttons, and these buttons will not be available for selection.
If the AT-50A denies other controllers access to itself, other controllers cannot disable the functions on the AT-50A.
**Menu Screen**

The Main Menu screen allows the user to configure the basic settings. To access the [Main Menu] screen, touch the \( \text{HOME} \) icon at the right top corner of the [HOME] or the [Menu] screen.

---

**Main Menu screen (Top screen)**

1. **[HOME]** button
   - Accesses the [HOME] screen.

2. **Back** button
   - Returns the screen to the previous screen.
   (When touched on the Main Menu screen, returns the screen to the HOME screen.)

3. **Touch Panel Cleaning** button
   - Touch this button to access the screen that will not respond when touched (except when the numbers in the four corners are touched in a specified order), allowing the user to clean the touch panel without accidentally changing the settings.

4. **Service Menu** button
   - Accesses the maintenance menu for service personnel. Normally, general users do not need to change any settings in the maintenance menu.

---

### Operation Setting

1. **Time and Schedule**
   - Sets the date, time, schedules, and Setback control. (P26)

2. **Collective Operation Setting**
   - Sets the collective operation settings. (P38)

3. **Group Icon Setting**
   - Changes the behavior of the group icon on the HOME screen.
   * Three setting options are available. (P41)

---

### Restriction Settings

1. **Lock Buttons**
   - Locks the buttons and the functions on the AT-50A. (P42)

2. **Set Temperature Range Limit**
   - Sets the temperature range for the local remote controllers. (P44)

3. **Prohibit Remote Controller**
   - Locks the buttons* on the local remote controllers.
   * ON/OFF, Mode, Set Temperature, and Filter Reset buttons (P46)

4. **Operation Mode Selection Limit**
   - Limits the operation mode selection. (P48)

---

### Control Panel

1. **Display Format**
   - Selects the display formats* on the Home and Menu screens.
   * Display language, temperature unit, display or non-display of room temperature and Cooling/Heating mode icons (during Auto mode), and backlight timer, and group names. (P50)

2. **Function Key Setting**
   - Assigns the functions to the F1 and F2 buttons.
   * Setback, Schedule, Mode, Temperature Correction, and RC Prohibition can be assigned. (P54)

3. **Volume Control**
   - Sets the sound volume and screen brightness. (P55)

4. **Touch Panel Calibration**
   - Calibrates the touch panel. (P56)

---

### System Management

1. **Status List**
   - Displays errors and filter signs. (P57)

2. **System-Changeover**
   - Selects the System-Changeover* setting.
   * Automatically switches the entire system to Cooling or Heating based on the room temperature and the preset temperature of each group.
   * This function cannot be used when the Operation Mode Selection Limit function is used. (P59)
Usage - Main Menu Settings

Operation Setting

Main Menu > Operation Setting

A Setting the date, time, and display format

1. Touch the A Date and Time button on the [Time and Schedule] screen.
2. On the [Date and Time] screen, touch the ① [Date] tab to set the date, or ② [Time] tab to set the time.
3. Using the ③ Y M A buttons, set the following items: [Month/Date/Year] and [Hour/Minute/AM · PM].
4. On each tab, select one of the three display formats by checking the ④ checkbox next to the desired format.
5. Touch the ⑤ Save button.

- The initial date/time setting is 1/1/2011 12:00AM.
- If the clock is set forward, the operations that were scheduled to have taken place before the new time will be cancelled.

Main Menu > Operation Setting > Time and Schedule > Set Schedules

B Setting the operation schedule

<table>
<thead>
<tr>
<th>Types of schedules</th>
<th>Number of operation patterns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly</td>
<td>Maximum 12 patterns</td>
</tr>
<tr>
<td>One Day</td>
<td>Maximum 5 patterns</td>
</tr>
</tbody>
</table>

[Note] If a specific pattern is assigned to multiple groups or days and the configuration of the pattern is changed, the change will be reflected on all the groups and days.

Use a different pattern number to save a given configuration of events if you do not want the changes to be reflected on the groups and days to which the pattern is assigned.

---

Main Menu > Operation Setting > Time and Schedule

1. Time and Schedule
Usage - Main Menu Settings

Operation Setting (cont’d)

Schedule setting flowchart

Step 1: Select the Weekly or One Day tab.
Step 2: Validity period.
Step 3: Select a group.
Step 4: Select days or dates.
Step 5: Assign a pattern to the selected days or dates.
Step 6: Configure the pattern.

Set Schedule screens

1. Touch the [Set Schedules] button on the [Time and Schedule] screen to access the Select Group and Days/Dates screen.

Schedule Setting Procedures

1. Touch the [Set Schedules] button on the [Time and Schedule] screen to access the Select Group and Days/Dates screen.

2. Touch the Weekly or One Day tab.

   When the Weekly tab was selected, the “Seasonal settings” must be made as follows.
   (1) Touch the [Seasonal settings] button on the Select Group and Days/Date screen.
      (The “Seasonal settings” button appears only on the [Weekly] screen.)
   (2) Touch the button [Weekly2], and select the use or non-use of Weekly2.
   (3) Use the buttons to select the use or non-use of Weekly1 and the effective period for Weekly2.
      If Weekly2 is set to “Do not use Weekly2,” the effective period cannot be set.
   (4) Pressing the OK button will take the screen back to the Select Group and Days/Date screen, and the effective period on the “Seasonal Settings” button will be updated. If the effective periods for Weekly1 and Weekly2 overlap, the setting cannot be completed.

   (cont’d)
Usage - Main Menu Settings

Operation Setting (cont’d)

3. Select the cell where a specific group and a day (date) intersect to assign a pattern.
   * Patterns can be copied, pasted, or deleted on the Select Group and Days/Dates screen.
     (e.g., The weekly schedule of a specific group can be copied and pasted to another group, or the schedule pattern of a specific day can be copied and pasted to another day. Refer to P32 for details.)

4. On the Select Pattern screen, select [–] (deselected) or one of the 12 or 5 patterns (between [P01] and [P12] on the Weekly tab OR between [P01] and [P05] on the One Day tab). Each pattern can be newly configured, copied and pasted, or edited. See ①, ②, and ③ below for details.

   * Patterns can be copied, pasted, or deleted on the Select Group and Days/Dates screen.
   * Touch a schedule pattern to select it.
   * Black pattern numbers indicate that the patterns have already been configured, and the white ones indicate blank patterns.

① To configure a new pattern using a blank pattern

   Touch a blank pattern number, then touch the button to access the Edit Pattern screen.

   ⇒ See Step 5.

② To copy an existing pattern and paste it to selected days or dates

   Touch a pattern number to select it, then touch the [OK] button to return to the Select Group and Day/Date screen. To set the schedule for other groups or days/date ⇒ See Step 2.

   When setting is complete ⇒ See Step 10.

③ To edit an existing pattern

   Touch an existing pattern number, then touch the button to access the Edit Pattern screen.

   If the selected pattern number is assigned to other groups or days, the message “This pattern is used for another schedule. To use different pattern number, select the number, and touch the OK button.” will appear. Change the schedule of the day or date that was selected in Step 3 above alone, select a new blank pattern number and then touch the [OK] button. To change the setting of all groups and days to which the pattern is assigned, just touch the [OK] button.

5. On the Edit Pattern screen, touch an event number to edit its contents.

   * The scheduled actions for each event will be displayed over two pages. Use the scroll buttons to switch between the pages.
   * On the Edit Pattern screen, the events of a specific pattern can be copied and pasted to another pattern.

   ⇒ See Step 5.

   * Refer to P34 for icon definitions.

Operation pattern numbers

Schedules events for the selected pattern

• Appears only if the selected pattern has been configured.
• The functions not supported by the selected group will appear underlined in red, and they will not be executed.

* Touch the < > buttons to check the actions for each scheduled event.
* Refer to P34 for icon definitions.

① To configure a new pattern using a blank pattern

   Touch a blank pattern number, then touch the button to access the Edit Pattern screen.

   ⇒ See Step 5.

If one or more patterns have been configured and saved, the message “When copying other setting patterns to edit, select the pattern to be copied, and touch the OK button.” will appear. Touch the [OK] button to create a new pattern using a blank pattern. To use an existing pattern as a template, select a desired pattern and then touch the [OK] button.

② To copy an existing pattern and paste it to selected days or dates

   Touch a pattern number to select it, then touch the [OK] button to return to the Select Group and Day/Date screen. To set the schedule for other groups or days/date ⇒ See Step 2.

   When setting is complete ⇒ See Step 10.

③ To edit an existing pattern

   Touch an existing pattern number, then touch the button to access the Edit Pattern screen.

   ⇒ See Step 5.

   If the selected pattern number is assigned to other groups or days, the message “This pattern is used for another schedule. To use different pattern number, select the number, and touch the OK button.” will appear. Change the schedule of the day or date that wasselected in Step 3 above alone, select a new blank pattern number and then touch the [OK] button. To change the setting of all groups and days to which the pattern is assigned, just touch the [OK] button.

5. On the Edit Pattern screen, touch an event number to edit its contents.

   * The scheduled actions for each event will be displayed over two pages. Use the scroll buttons to switch between the pages.
   * On the Edit Pattern screen, the events of a specific pattern can be copied and pasted to another pattern.

   ⇒ See Step 5.

   * Refer to P34 for icon definitions.

Operation pattern numbers

Schedules events for the selected pattern

• Appears only if the selected pattern has been configured.
• The functions not supported by the selected group will appear underlined in red, and they will not be executed.

* Touch the < > buttons to check the actions for each scheduled event.
* Refer to P34 for icon definitions.
Usage - Main Menu Settings

Operation Setting (cont’d)

6. Set the time and the actions for the selected event number.

* Functions that can be included in each event are as follows: Execution Time, ON/OFF, Mode, Fan Speed, Air Direction, Set Temperature, and Local Remote Controller Operation Prohibition settings.
* Refer to P34 for icon definitions.
* The Set Temperature must be set to a temperature within the range that was specified in the Initial Settings 1/Basic Settings under the Service Menu.
Refer to the Installation Manual to change the temperature setting range.

7. When finished making the settings, touch the OK button to return to the Edit Pattern screen.
8. Repeat Steps 5 through 7 above to set as many events and the execution time for the events as necessary.
9. When finished, touch the Return button ⇒ to return to the Select Group and Days/Date screen.
   To set the schedule for other groups or days/date ⇒ See Step 2.
   When setting is complete ⇒ See Step 10.
10. To exit the screen and return to the “Time and Schedule” screen, press on the “Select Group and Days/Date” screen.

Copying and pasting the existing settings

1. Touch the item to be copied.
   * Items that can be copied include the weekly schedule for a group, the pattern assigned to a specific day, or the event that is scheduled to take place at a certain time.
   * A red checkmark will appear on the selected item(s).

(Example) To copy the weekly schedule for a group

(Example) To copy an event (a set of actions executed at a scheduled time)

2. Touch the Copy button. The selected item will be highlighted in blue.

3. Touch the copy destination.
   * Multiple copy destinations can be selected.
   * A red checkmark will appear on the selected item(s).

4. Touch the Paste button.
5. Touch the OK button on the window that pops up.

Deleting selected settings

1. Touch the items to be deleted.
   * Items that can be deleted at once include the weekly schedule for a group, the pattern assigned to a specific day, or the event that is scheduled to take place at a certain time.
   * Multiple items can be deleted at once.

2. Touch the Delete button.
3. Touch the OK button on the window that pops up.
Usage - Main Menu Settings

Operation Setting (cont’d)

Inserting an event

1. Touch a row to insert an event above it.
   * A red checkmark will appear on the selected row.

2. Touch the **Insert** button. A blank row will appear above the selected row.
   * If the maximum number of events have been set, no more rows can be inserted.

Icon Definitions

<table>
<thead>
<tr>
<th>Functions</th>
<th>Deselected *1</th>
<th>Setting Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON/OFF</td>
<td></td>
<td>Off [red]</td>
</tr>
<tr>
<td>Mode</td>
<td></td>
<td>On [green]</td>
</tr>
<tr>
<td>Fan Speed</td>
<td></td>
<td>Auto</td>
</tr>
<tr>
<td>Air Flow Direction</td>
<td></td>
<td>Auto</td>
</tr>
<tr>
<td>Local remote controller operation prohibition (ON/OFF)</td>
<td></td>
<td>Off [red]</td>
</tr>
<tr>
<td>Local remote controller operation prohibition (Mode)</td>
<td></td>
<td>Off [red]</td>
</tr>
<tr>
<td>Local remote controller operation prohibition (Set Temperature)</td>
<td></td>
<td>Off [red]</td>
</tr>
<tr>
<td>Local remote controller operation prohibition (Filter Sign Reset)</td>
<td></td>
<td>Off [red]</td>
</tr>
</tbody>
</table>

*1 The icons corresponding to the functions that are not scheduled will not be displayed except in the Edit Pattern popup screen.

Main Menu > Operation Setting > Time and Schedule > Setback Control

**Setting the Night setback function**

Night setback function is a function that prevents indoor dew or extreme temperature rise by heating/cooling automatically when the room temperature goes outside of the specific range during the set time period.

- When the air conditioning group with night setback function is off and when the temperature exceeds the preset temperature, heating/cooling operation starts.
- If the room temperature is measured by the air-conditioner’s suction temperature sensor, the temperature may not be correct when the air-conditioner is inactive and the air is not fresh. When the air-conditioner is inactive, using a remote sensor or a remote control sensor is recommended to measure room temperature correctly.
- If the temperature setting or ON/OFF operation is prohibited for this unit, Setback operation cannot be used.
- If the operation mode change is prohibited or the operation mode selection is limited for this unit, Setback function may not function properly.

When the night setback control is set, air conditioning group operates as shown below.

- When the temperature drops below the lower limit temperature (heating control)
- When the temperature rises above the upper limit temperature (cooling control)

1. Touch the **Setback Control** button on the [Time and Schedule] screen.
2. Read the pop-up message, and touch the **OK** button to confirm.
Usage - Main Menu Settings

Operation Setting (cont’d)

3. Press button ① to bring up the “Control Time Period” and “lower/upper limit temperature” settings screen, and make necessary settings.

Setting of night setback control time period
Touch the ② buttons to set the control time.

Setting of lower/upper limit temperature
Touch the ③ buttons to set the upper and lower limits.
When [–] is set, setback control will not be operated.

Click OK to close the popup window and return to the “Setback Control” screen. The new settings will appear on the display section ④ on the screen.
Pressing “Cancel” will close the popup window, but the new setting will not be reflected on the display section ④ on the screen.

4. Press the button labeled ⑤ to set different lower/upper limit temperature for different groups.
The groups whose temperature setting is different from the one for the collective setting will appear underlined.

5. Select the groups to include from the Group buttons labeled ⑥. By default, all groups are selected.

6. Touch the ⑦ Save button.

- The minimum difference between the upper and lower limits is 4°C (8°F).
- The temperature range that can be set depends on the connected units.
- The temperature can be set within the following range.
  
  [Lower limit] 12°C - 28°C [17°C - 28°C] / 53°F - 83°F [63°F - 83°F]

* [ ] in case of using Mr.SLIM® units.
- The groups that do not support the Setback function cannot be selected.
- The changes that are made while the Setback function is turned on will not be reflected. To have the settings reflected, turn off the Setback function and then turn it back on. Refer to P19 for how to turn on/off the Setback function.
- The Setback status can be verified by accessing the “Check Current Settings” screen from the “Time and Schedule” screen.

Checking the Weekly/One Day Schedule Settings

1. Touch the [Check Current Settings] button on the [Time and Schedule] screen.
2. Touch the Weekly or One Day tab.
3. Touch the row that corresponds to the group whose schedules you want to check.
   Touch the pattern number under a specific day to check the day’s schedule that appears under the pattern numbers.
4. Touch the < > buttons to check the actions for each scheduled event.
   Touch the [Close] button to return to the previous screen.
5. To change the schedule settings, touch the Return button to return to the Time and Schedule screen, and access the Set Schedules screen.

• Appears only if the selected pattern has been configured.
• The functions not supported by the selected group will appear underlined in red, and they will not be executed.
  * Refer to P34 for icon definitions.
• The effective time for the Night Setback function will appear as a yellow line on the timeline.
To select the groups on which to execute the Collective ON/OFF function

1. Touch the ON/OFF button on the [Collective Operation Setting] screen.
2. Read the pop-up message, and touch the OK button to confirm.
3. Touch the buttons to set the upper and lower limits. By default, all groups are selected.
4. Touch the Save button.

- The DIDO controller groups that do not support the Collective ON/OFF function cannot be selected.

To select the groups on which to execute the Collective Operation (Enable or disable the Setback function)

1. Touch the Setback button on the [Collective Operation Setting] screen.
2. Read the pop-up message, and touch the OK button to confirm.
3. Touch the buttons to set the upper and lower limits. By default, all groups are selected.
4. Touch the Save button.

- The minimum difference between the upper and lower limits is 4°C (8°F).
- The temperature range that can be set depends on the connected units.

To select the groups on which to execute the Collective Operation (Enable or disable Scheduled operation)

1. Touch the Schedule button on the [Collective Operation Setting] screen.
2. Read the pop-up message, and touch the OK button to confirm.
3. Touch the Save button.

- The groups that do not support the Setback function cannot be selected.
- The changes that are made while the Setback function is turned on will not be reflected.
- The settings reflected, turn off the Setback function and then turn it back on. Refer to P19 for how to turn on/off the Setback function.
Usage - Main Menu Settings

Operation Setting (cont’d)

To select the groups on which to execute the Collective Operation (Operation Mode)

1. Touch the Mode button on the [Collective Operation Setting] screen.
2. Read the pop-up message, and touch the OK button to confirm.
3. Select the groups to include from the Group buttons labeled A. By default, all groups are selected.
4. Touch the Save button.

To select the groups on which to execute the Collective Operation (Temperature Correction)

1. Touch the Temperature Correction button on the [Collective Operation Setting] screen.
2. Read the pop-up message, and touch the OK button to confirm.
3. Select a value to be used as the temperature offset value from the buttons labeled C.
4. Select the groups to include from the Group buttons labeled A. By default, all groups are selected.
5. Touch the Save button.

To select the groups on which to execute the Collective Operation (Locking or unlocking access to the ON/OFF, Mode, Set Temperature, and Filter Sign Reset settings from the local and other system controllers).

1. Touch the RC Prohibition button on the [Collective Operation Setting] screen.
2. Read the pop-up message, and touch the OK button to confirm.
3. Select the groups to include from the Group buttons labeled A. By default, all groups are selected.
4. Touch the Save button.

- The DIDO controller groups and the LOSSNAY groups that do not support this function cannot be selected.

- The Temperature Correction function is used to temporarily raise or lower the preset temperature setting by a certain preselected amount.
- Positive offset is used for units that are operated in the Cooling and Dry modes, and negative offset is used for units that are operated in the Heating mode.
- The DIDO controller groups and the LOSSNAY groups that do not support this function cannot be selected.

Main Menu > Operation Setting

3) To assign an operation mode to the Group icon on the [HOME] screen

Touch the Group Icon Setting button on the [Operation Setting] screen.

1. Select among Operation mode 1, Operation mode 2, and Operation mode 3 by touching the corresponding button labeled ①.
2. Touch the Save button.
Restriction Settings

Main Menu > Restriction Settings

1) Selecting the functions to be locked and setting the password to unlock the locked functions

Selecting the functions to be locked

1. Touch the Lock Buttons button on the [Restriction Setting] screen.
2. Enter the password on the [Login] screen, and touch the Login button. Refer to below for the details on log in. If the correct password is entered, the [Lock Buttons] screen will appear.
3. Press the Category button that includes the function to be locked. The screen that looks like the figure above will appear. (The items in each category and the type of functions that can be locked are summarized in Table A.)
4. Touch the button that corresponds to the function to be locked so that will appear. (The items whose corresponding icon is cannot be locked.)
5. Touch the Save button.

<table>
<thead>
<tr>
<th>Category button</th>
<th>Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON/OFF</td>
<td>Collective ON/OFF button *1</td>
<td></td>
</tr>
<tr>
<td>F1</td>
<td>Function button *1</td>
<td></td>
</tr>
<tr>
<td>F2</td>
<td>Function button *2</td>
<td></td>
</tr>
<tr>
<td>Screen</td>
<td>Touch Panel Screen *2</td>
<td></td>
</tr>
<tr>
<td>Main Menu</td>
<td>Main Menu Button</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Category button</th>
<th>Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON/OFF</td>
<td>ON/OFF button *3</td>
<td></td>
</tr>
<tr>
<td>Mode</td>
<td>Mode button *3</td>
<td></td>
</tr>
<tr>
<td>Set Temp</td>
<td>Set temperature button *3</td>
<td></td>
</tr>
<tr>
<td>Fan Speed</td>
<td>Fan speed button *3</td>
<td></td>
</tr>
<tr>
<td>Schedule ON/OFF</td>
<td>Schedule ON/OFF button *3</td>
<td></td>
</tr>
</tbody>
</table>

*1 If the function is locked, the LED on the button will blink twice when touched.
*2 When the Touch Panel Screen is locked, the category or will not be available for selection.
*3 The buttons that can be locked are the ones that appear on the HOME screen.
*4 On the HOME screen, the icon will appear on the buttons that are locked.

Setting the Unlock password

1. Touch the Lock Buttons button on the [Restriction Setting] screen.
2. Enter the password on the [Login] screen, and touch the Login button. Refer to below for the details on log in. If the correct password is entered, the [Lock Buttons] screen will appear.
3. Press . The screen that looks like the figure at left will appear.
4. To allow unlocking the buttons without entering the password, touch "No password" to activate the button. To require a password to unlock the buttons, touch "Password" to activate the button.
5. Touch the Save button.

Use the same password as the login password to unlock buttons.

To log in

1. Enter the login password from the keyboard on the touch panel. Touch to delete a character.
2. Touch the Login button.
3. If the password matches, the Lock Buttons screen will be displayed.

To change the password

1. Enter the current password on the login screen, and then touch . The screen at left will appear.
2. Enter the new password in the [New Password] field.
   * Password should be between four and eight characters.
   * Touch to delete a character.
3. Touch the [Retype Password] field, and enter the new password again.
4. Touch the OK button to reflect the change and return to the previous screen.
Usage - Main Menu Settings

Restriction Settings (cont'd)

Main Menu > Restriction Settings

1. Touch the Set Temperature Range Limit button on the [Restriction Settings] screen.
2. Read the pop-up message, and touch the OK button to confirm.
3. Click on the Group button on the [Set Temperature Range Limit] screen to select the groups to change their settings.
4. Touch the Edit button.

5. Use the ▼ ▲ buttons shown in the pop-up window at right to set the range for each operation mode (Cooling, Heating, and AUTO).

To clear the lower limit, keep hitting the ▼ button until -- appears. To clear the upper limit, keep hitting the ▲ button until -- appears.

Not all functions are supported by all local remote controllers. The ▼ ▲ buttons for the unsupported functions will be grayed out.

6. Touch the OK button to save the settings.

• The temperature setting range and the operation mode that can be set depend on the indoor unit and remote controller models.
• Operation from the local remote controllers that are connected to Mr. SLIM® cannot be prohibited from the AT-50A. Use the button lock function on the controllers instead.
• If the temperature limits are set too high or low, the System-Changeover function may not work properly and the units may not operate in the expected mode (Cooling or Heating). When using the System-Changeover function, it is recommended not to use the temperature range limit function.

Select All button
Selects all groups.

Show Group Name List button
Displays a list of group names in a pop-up window.

Group buttons
Displays group numbers. Touch the button for a specific group to edit the settings.

Edit button
Edits the temperature range for the selected group.

▼ ▲ buttons
Use to flip through the pages. (Each page lists four groups.)
Usage - Main Menu Settings

Restriction Settings (cont'd)

Main Menu > Restriction Settings

2. Read the pop-up message, and touch the OK button to confirm.
3. Click on the [Group] button on the [Prohibit Remote Controller] screen to select the groups and change their settings.
4. Touch the [Edit] button.
5. Use the buttons labeled [ ] in the pop-up window at right to lock or unlock access to each item.
6. Touch the [OK] button to save the settings.

・ When [ ] appears on the "Prohibit Remote Controller" button, this function will not be available.

Main Menu > Restriction Settings > Prohibit Remote Controller

3. Locking or unlocking access to the ON/OFF, Mode, Set Temperature, and Filter Sign Reset settings from the local and other system controllers

1. Show Group Name List button
   Displays a list of group names in a pop-up window.

2. Group buttons
   Displays group numbers. Touch the button for a specific group to edit its settings.

3. Edit button
   Edits the temperature range for the selected group.

4. [ ] buttons
   Use to flip through the pages. (Each page lists four groups.)

5. [ ] button
   Selects all groups.

・ The screen shown left will always display the latest prohibit/permit status. If an event takes place that changes the prohibit/permit status of a specific item, the screen display will be updated. (The mark will appear or disappear.)
・ When this function is in use, the buttons on AT-50A cannot be disabled from the system controller.

<table>
<thead>
<tr>
<th></th>
<th>Indoor unit groups</th>
<th>LOSSNAY groups</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. ON/OFF</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>2. Mode</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>3. Set temperature</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>4. Filter Sign reset</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>
Usage - Main Menu Settings

Restriction Settings (cont'd)

Main Menu > Restriction Settings

1. Touch the Operation Mode Selection Limit button on the [Restriction Settings] screen.
2. Touch the button to set the operation mode limit.

- Touch the button repeatedly to select from following settings.

<table>
<thead>
<tr>
<th>Button</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Limitation</td>
<td>The limits will be cancelled.</td>
</tr>
<tr>
<td>No Cooling Operation</td>
<td>The cooling, dry and automatic modes cannot be selected with the Mode button.</td>
</tr>
<tr>
<td>No Heating Operation</td>
<td>The heating and automatic modes cannot be selected with the Mode button.</td>
</tr>
<tr>
<td>No Heating/Cooling</td>
<td>The cooling, dry, heating and automatic modes cannot be selected with the Mode button.</td>
</tr>
</tbody>
</table>

3. Select the groups to include from the Group buttons labeled ③.
4. Touch the Save button.

- When this function is used, the System-Changeover function cannot be used.
- Note that this function cannot be used with some indoor units. In this case, changeover of the operation mode cannot be limited with the local remote controller.

Operation mode selection limit (season changing)

Selection to specific operation modes with this controller or the local remote controller for all groups can be limited.

For example, the mode selection can be limited according to the season.

Cooling mode limit (winter), heating mode limit (summer), cooling + heating mode limit (between seasons)

1. Touch the Operation Mode Selection Limit button on the [Restriction Settings] screen.
2. Touch the button to set the operation mode limit.

- Touch the button repeatedly to select from following settings.

- When ④ appears on the “Operation Mode Selection Limit” button, this function will not be available.

- The groups whose limitation setting is different from the one for the collective setting will appear underlined.

- Press the button labeled ② to set different limitation type for different groups.
Usage - Main Menu Settings

Control Panel

Main Menu > Control Panel

Setting the basic display settings on the HOME and MENU screens

Touch the [Display Format] button on the [Control Panel] screen.

- The [Display Format] screen consists of three pages (1/3 - 3/3). Use the buttons to flip through the pages. After setting all the settings, touch the [Save] button.

Display Format screen: 1/3

1) Touch the [Language] button on the [Display Format] screen (1/3).
2) Select a desired language from the language options (buttons labeled in the figure) on the pop-up screen.
3) Press the [OK] button to return to the previous screen.

To select the display language

To show or hide the room temperature

Touch the Room Temperature button on the [Display Format] screen (1/3) to switch between [Show] and [Hide].

Display Format screen: 2/3

To show or hide the Cooling/Heating mode icon (during Auto mode) when the operation mode is enabled

Touch the Automatic Mode Display Setting button to switch between Show ( ) and Hide ( ).

Example) [HOME] screen

To set the backlight timeout time

Touch the Backlight timeout setting button to set the timeout time.

- The backlight will go off after a specified time of non-use.
  - Touch the button repeatedly to select from the following settings.
    - 1 min. → 3 min. → 5 min. → 7 min. → 10 min.

- The backlight will remain lit as long as an error exists.

To select the temperature unit

Touch the Temperature unit button on the [Display Format] screen (1/3) to switch between °C and °F.
Usage - Main Menu Settings

Control Panel (cont'd)

Main Menu > Control Panel

To change the group name
1. Touch the Jump to the group name setting screen button on the [Display Format] screen (3/3).
2. Select a desired group name button labeled on the [Group Name Setting] screen to change its group name.
3. Enter the group name on the pop-up window. (Refer to the next page for details.) Group names can be copied and pasted by using the Copy and Paste buttons.
4. Touch the Save button.
Assigning Collective Operation functions to the Function Button 1 (F1) and Function Button 2 (F2)

Touch the Function Key Setting button on the [Control Panel] screen.

1. Touch the check mark [✓] that corresponds to the function to assign to F1 or F2 so that the checkmark will appear as [✓].
   (Check the check mark in the F1 column to assign a function to F1, and check the check mark in the F2 column to assign a function to F2. Touch the button again so that the button will appear as [✓] to cancel the selection.)
2. Touch the Save button.

Adjusting the volume and brightness

Touch the Volume Control button on the [Control Panel] screen.

To adjust the volume
1. Touch the Sound button on the [Volume Control] screen.
   Every time the Sound button is touched, the sound level changes as follows: [Level 0] → [Level 1] → [Level 2] → [Level 3].
2. Touch the Save button.

To adjust the brightness
1. Touch the Brightness button on the [Volume Control] screen.
   Every time the Brightness button is touched, the brightness level changes as follows: [70%] → [80%] → [90%] → [100%].
2. Touch the Save button.

- As a default, no functions are assigned to either F1 or F2.
- The F1 and the F2 will be effective only on the HOME screen.
- To use the F1 or F2 button to execute a function, certain settings for Collective Operation must be set. (Refer to P38 for information about the Collective Operation settings.)
- If [✗] appears on the checkbox, the function that corresponds to the checkbox is not available and the function cannot be assigned to the F1 or F2 button.
1. Touch the **Touch Panel Calibration** button on the [Control Panel] screen.
   Touch the **OK** button on the confirmation screen.
2. Touch the white squares (④) in the order they appear, starting from the top left corner.
3. After all nine squares are touched, the screen will return to the [Control Panel] screen.

**If each square is not touched within one minute after the last square is touched, calibration will be cancelled and the screen will return to the previous screen.**

**To calibrate the screen properly, use a pointy, but not sharp, object to touch the squares.**

* Sharp objects may scratch the touch panel.

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**Usage - Main Menu Settings**

**Control Panel (cont’d)**

**Main Menu > Control Panel > Touch Panel Calibration**

4]Calibrating the touch panel

**Main Menu > System Management**

**Main Menu > System Management > Status List**

**Checking or resetting the Error or Filter Sign**

To check the error

1. Touch the **[Malfunction]** tab to check the number of errors, the names of the group in which the errors occurred, the addresses of the error-source units, and the error codes.

   - If an error occurs, note the error code and consult your dealer or a maintenance provider.

To reset the error

1. Touch the **[Malfunction]** tab.
2. Touch the **[All Reset]** button.
3. Touch the **OK** button on the pop-up window.

   - Those groups whose errors have been reset will have an icon indicating that they are stopped.
Usage - Main Menu Settings

System Management (cont'd)

To check the information about the units whose Filter Signs are turned on:

1. Touch the [Filter Sign] tab, and check the number of units whose Filter Signs are turned on, the names of the groups they belong to, and their addresses.

- When a Filter Sign appears, clean, wash, or replace the filter as necessary. Refer to the air conditioner or LOSSNAY manual for details.
- When[
appears on the Reset button, the button will not be available.

To reset the Filter Sign after cleaning the filter:

- Reset button: Clears the specific Filter Sign.
- All Reset button: Clears all Filter Signs.

Main Menu > System Management

Number of Filter Signs detected
Displays the number of Filter Signs that have been detected.

Usage - Main Menu Settings

System Management (cont'd)

Main Menu > System Management > System-Changeover

Using the System-Changeover function

Use the System-Changeover mode to automatically change a group of indoor units that are connected to the same outdoor unit over between the Cooling and Heating modes according to temperature changes.

Use this function to control the indoor units that do not have an automatic changeover mode. They can be operated in the Heating mode in the morning, and then automatically changed over to the Cooling or Heating mode all at once in the afternoon, for example, without the need to manually change the mode via each remote controller.

- This function should not be used in conjunction with the System-Changeover function on the outdoor unit or other system controllers.
- When the System-Changeover mode is set to [Auto], the operation mode is selected based on the demands of the majority of the group, taking into consideration the capacity of each indoor unit. When it is set to [Representative Group], the operation mode is selected based on the demand of the representative group through updating its status every 15 minutes and changing over to the cooling or heating mode as necessary. Because the operation mode is selected based on the demands of the representative group or of the majority of the groups, not all areas may be air conditioned to the optimum temperature.

- If the temperature limits are set too high or low (see P44), the System-Changeover function may not work properly and the units may not operate in the expected mode (Cooling or Heating).
- The System-Changeover function is not available for the following types of products: Simultaneous Cooling/Heating units (with Auto mode), Mr. SLIM®, LOSSNAY, and DIDO controller.

- When X appears on the “System-Changeover” button, this function will not be available for selection.
Usage - Main Menu Settings

System Management (cont'd)

1. Touch the System-Changeover button on the [System management] screen.
2. Touch the Change mode button to select between [None], [Auto], and [Representative Group].
3. Touch the Save button on the [System-Changeover] screen.

1. Touch the System-Changeover button on the [System management] screen.
2. Touch the Change mode button to select between [None], [Auto], and [Representative Group].
3. Touch the Save button on the [System-Changeover] screen.

System-Changeover mode

- **None** (default): Select this option so as not to use the System-Changeover function.
- **Auto**: The operation modes (cooling/heating) will be changed-over based on the following:
  - Temperature differences between the preset temperature and the room temperature of all indoor unit groups that are connected to a specific outdoor unit, AND the capacity of each indoor unit in each group.
  - The operation mode of the groups of units that are not operating, or the ones that are operating in the Fan or Auto mode, will remain the same.
- **Representative Group**: The operation modes (Cooling/Heating) will be changed-over based on the temperature difference between the preset temperature of the representative group and the room temperature.
  - When the air conditioning units in the Representative Group are not operating, or they are operating in the Fan or Auto mode, the System-Changeover function will work in the same way as when the System-Changeover mode is set to Auto.

When [Representative Group] is selected, the group that is currently designated as the Representative Group will be displayed.

- To designate a different group as the Representative Group, select a new group on the screen that appears (shown right) when the Representative Group button is pressed, and then touch the OK button.

- The initial setting for the Representative Group is the group in a specific block with the smallest group number.

Future setting for the Representative Group

- To designate a different group as the Representative Group, select a new group on the screen that appears (shown right) when the Representative Group button is pressed, and then touch the OK button.

- The initial setting for the Representative Group is the group in a specific block with the smallest group number.

Maintenance

Touch Panel Cleaning screen

To clean the touch panel

- This screen allows the user to wipe the touch screen without accidentally changing the settings.
- 1. Touch the icon on the [Main menu] screen to bring up the screen shown above.
- 2. When done cleaning the touch panel, touch the four numbers in the corners 1, 2, 3, and 4 in that order to return to the [Main Menu] screen.

- The four numbers must be touched in the correct order. If you touch the numbers in the wrong order, start over from 1.
- Wipe with a soft dry cloth, a cloth soaked in water with mild detergent, or a cloth dampened with ethanol. Do not use acidic, alkaline, or organic solvents.
Troubleshooting

Problem
The indicator on the Collective ON/OFF button is blinking.

Solution
Touch Main Menu > System Management > Status List. ON the Malfunction tab, check the error code and the error source address on the screen, and consult your dealer. Refer to P57.

Problem
⚠️ is displayed on the screen.

Solution
Touch Main Menu > System Management > Status List. ON the Malfunction tab, check the error code and the error source address on the screen, and consult your dealer. Refer to P57.

Problem
A Filter Sign is displayed on the screen.

Solution
Touch Main Menu > System Management > Status List. ON the Malfunction tab, check the error code and the error source address on the screen. Clean the filter on the unit whose Filter Sign is on according to the instructions in the manual for the applicable unit. Refer to P57.

Problem
[Emergency Stop (Level-signal)] is displayed on the screen, and the controller does not respond to the ON/OFF button.

Solution
If the external input interface receives an emergency stop signal, all indoor units and the LOSSNAY that are controlled by the AT-50A will stop. The AT-50A controller, low-level system controllers, or local remote controllers will not respond until the emergency stop signal input is removed. When the emergency stop signal is removed, the operation status before the signal was received will be restored.

Specifications

<table>
<thead>
<tr>
<th>Power source</th>
<th>30VDC *1 (for connection to M-NET only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receives power from the power supply unit for transmission line or from outdoor units via the M-NET transmission cable. The power consumption coefficient*2 of AT-50A is <em>4.</em></td>
<td></td>
</tr>
</tbody>
</table>

*1 Not for use with a generic DC power supply device. Use the power supply unit for transmission line (PAC-SC51KUA etc.) by Mitsubishi. 

*2 "Power consumption Coefficient" is a coefficient to calculate the relative power consumption of the devices that receive power through the M-NET transmission line. Refer to the note at the end of Chapter 1-5 "System diagram" in the Installation Manual.

Operating conditions

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<thead>
<tr>
<th>Temperature</th>
<th>Operating temperature range</th>
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<tbody>
<tr>
<td>0 - 40°C [32°F - 104°F]</td>
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| Storage temperature range |
| 20 - 70°C [4°F - 158°F] |

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This product is designed and intended for use in the residential, commercial and light-industrial environment.

This product at hand is based on the following EU regulations:
  • Low Voltage Directive 2006/95/EC
  • Electromagnetic Compatibility Directive 2004/108/EC