MITSUBISHI ELECTRIC

<ORIGINAL>

CE

Air Conditioning Control System
Centralized Controller
AE-200A/AE-50A/EW-50A
AE-200E/AE-50E/EW-50E

Instruction Book
–Integrated Centralized Control Web–

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Before using the controller, please read this Instruction Book carefully to ensure proper operation.
Retain this manual for future reference.

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Chapter 1. General descriptions

1. Before use

1-1. Introduction

This Instruction Book explains how to monitor and operate the units connected to the AE-200A/AE-50A/EW-50A and AE-200E/AE-50E/EW-50E using a Web browser.
For initial settings and function settings, refer to the Instruction Book (Initial Settings).

1-2. Terms Used in This Manual

- “Centralized Controller AE-200A/AE-200E” is referred to as “AE-200.”
- “Centralized Controller AE-50A/AE-50E” is referred to as “AE-50.”
- “Centralized Controller EW-50A/EW-50E” is referred to as “EW-50.”
- “Booster unit” and “Water HEX unit” are referred to as “Air To Water (PWFY) unit.”
- “Advanced HVAC CONTROLLER” is referred to as “AHC.”
- “Hot Water Heat Pump unit” is referred to as “HWHP (CAHV, CRHV) unit.”
- The display/operation items included in this manual may not be able to be displayed/operated depending on the connected air conditioning unit models.
- Screen images used in this manual are from Windows 7® and Google Chrome™.
- Screen images used in this manual are from the display that has a resolution of 1600 x 1200.

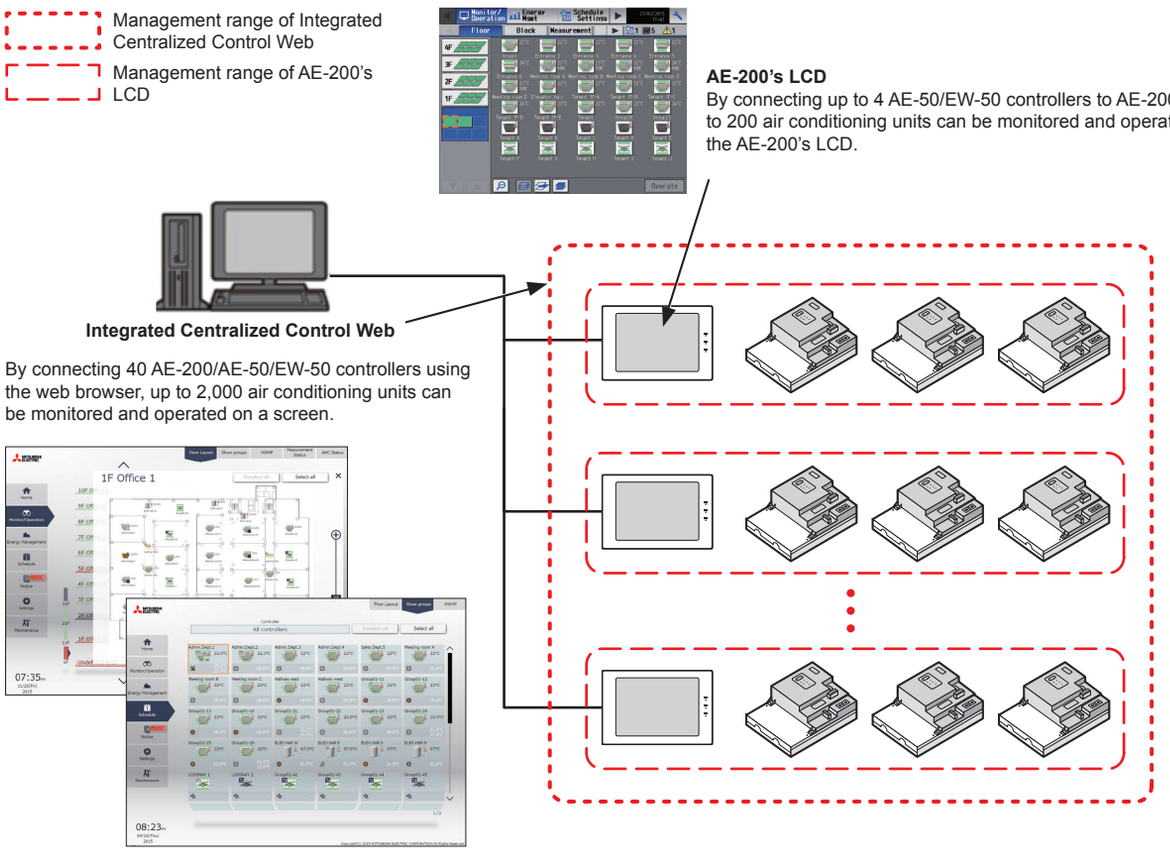
1-3. Main Features

The main features of Integrated Centralized Control Web are as follows.

(1) Monitoring and operating air conditioning units

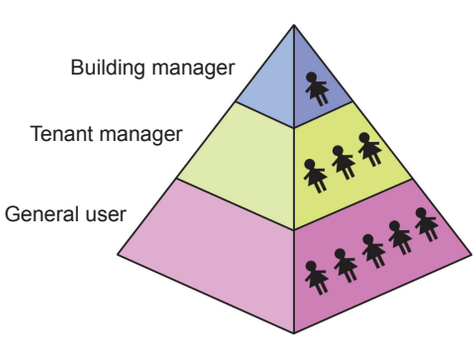
By using the Integrated Centralized Control Web, up to 2,000 air conditioning units connected to 40 AE-200/AE-50/EW-50 centralized controllers can be monitored and operated. On the AE-200's LCD, up to 200 air conditioning units can be monitored and operated, and the air conditioning units connected to all centralized controllers within the Integrated Centralized Control Web can be integrated and managed.
Visibility is improved and management work is substantially reduced as the air conditioning units can be displayed anywhere on a floor layout by configuring the Floor Layout settings. Furthermore, intuitive operation is possible.

Note: "Integrated Centralized Control Web" license is required to use the Integrated Centralized Control Web that spans multiple AE-200E or EW-50E systems. (AE-200E/AE-50E/EW-50E only)



(2) Large number of monitoring and operation terminals

If a centralized controller and wireless LAN router are connected, the air conditioning units can be monitored and operated using tablets and smartphones.
General users can use smartphones in addition to PCs and tablets.



User	PC	Tablet	Smartphone
Building manager	V	V	–
Tenant manager	V	V	–
General user	V	V	V

Note: When using a tablet, lock the landscape orientation. If the screen rotates to portrait, the layout may break. If this is the case, read the layout again.

Note: "Tenant/Personal Web" license is required to register tenant managers and general users.

(3) User management function

In addition to a building manager that can manage all air conditioning units, you can set tenant managers that can manage specific air conditioning units and general users that can perform only monitoring and operation. Since the functions that can be used differ for each user, this facilitates user management that meets requirements.

Note: Up to 50 users can access the Integrated Centralized Control Web at the same time. While 50 users are accessing the Integrated Centralized Control Web, no more users can access the Integrated Centralized Control Web.

User	Number of users
Building manager	1
Tenant manager	200
General user	2000

List of accessible functions for each user

The available functions differ depending on the user that logs in.

Accessible functions for different users

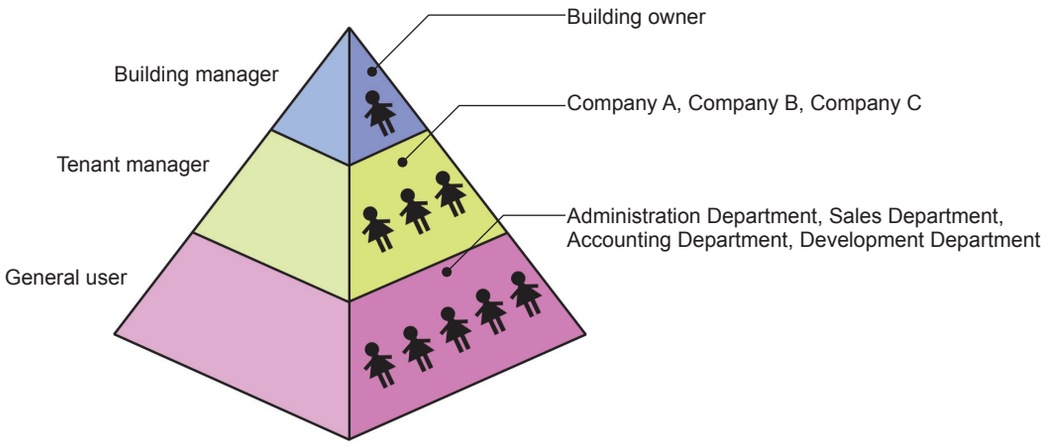
V: Accessible function

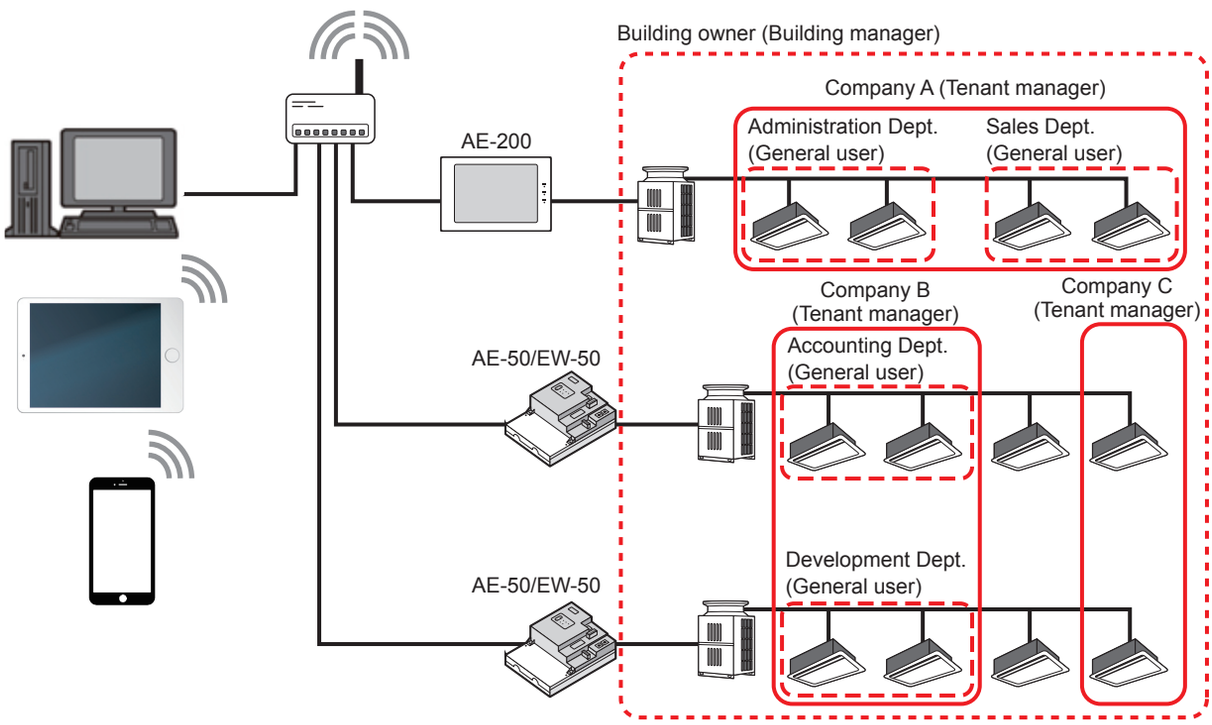
Function		Building manager	Tenant manager	General user
Home	Operation status for each floor/Electric energy consumption/Notice	V	–	–
Monitor/Operation	Floor Layout	V	–	–
	Show groups	V	V	V
	Measurement Status	V	–	–
	AHC Status	V	–	–
	HWHP	V	V	V *1
	Advanced settings	V	V	V
Energy Management	Energy Use Status	V	V	–
	Ranking	V	V	–
	Target Value	V	V	–
	Peak Cut	V	–	–
Schedule	Schedule settings	V	V	–
	Date range setting for Weekly schedule	V	–	–
Notice	Error List	V	–	–
	Unit error log/ Communication error log	V	–	–
	Filter sign	V	–	–
Settings	Screen display settings	V	–	–
	User registration	V	–	–
	Date and time settings	V	–	–
	License registration	V	–	–
Maintenance	Send Mail Log	V	–	–
	Outdoor Unit Status	V	–	–
	Free Contact	V	–	–
	Gas Refrigerant Amount Check	V	–	–
	CSV Output	V	–	–

*1 HWHP units cannot be monitored or operated on the smartphone.

Sample user setting

The air conditioning unit groups to be managed can be set for each user as shown in the figure below.





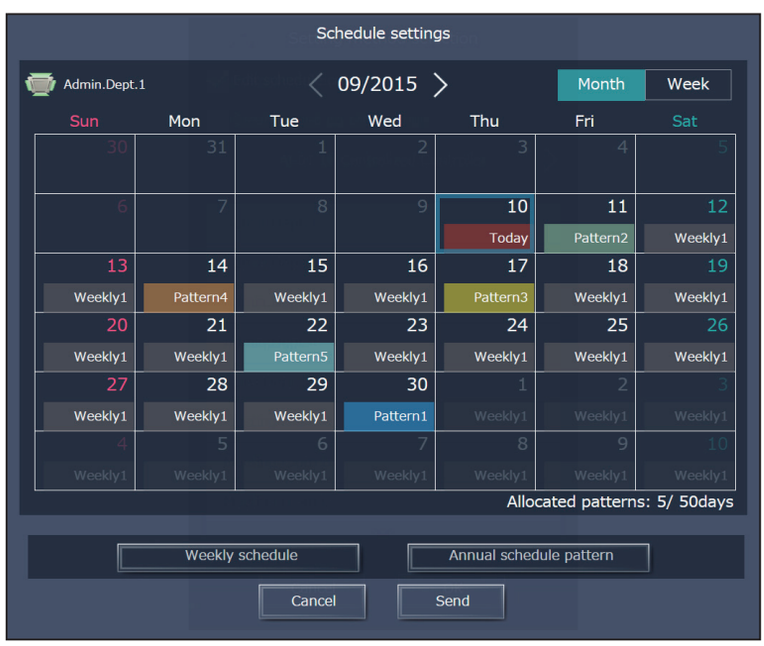
(4) Energy management function

The energy-control-related status, such as electric energy consumption, operation time, and outdoor temperature, can be displayed in a graph. This allows you to consider and check the energy-saving measures as you can grasp the current operating status and check the energy saving effect. Also, ease of maintenance can be improved by grasping air conditioning unit conditions such as abnormal electricity consumption.



(5) Schedule function

Scheduled operation is possible by setting the operation, stop, and other times of the air conditioning units. You can set Weekly Schedule to set each day of the week and Annual Schedule to set specific days such as national holidays. Furthermore, you can change the schedule settings of just the day.



1-4. Operating environment

The following table shows the supported operating systems, browsers, and models for using this Integrated Centralized Control Web with PCs, tablets, and smartphones.
Operation with any operating environment other than the following cannot be guaranteed.

Item		Requirement
PC	CPU	1 GHz or faster (2 GHz or faster recommended)
	Memory	2 GB or more
	Screen resolution	1024 x 768 or higher (1920 x 1080 recommended)
	OS	• Microsoft® Windows® 8.1 or Windows® 7 • Mac OS® X10.9
	Browser	• Microsoft® Internet Explorer® 11 • Google Chrome™ Ver. 45 • Safari® 7
	Microsoft® Excel®	• Microsoft® Excel® 2007 or later

	OS	Browser	Model
Smartphone	iOS7–9	Safari® 7–9	• iPhone5 • iPhone5s • iPhone6 (Plus) • iPhone6s (Plus)
	Android™ 4.2–6.0	Google Chrome™ Ver. 45	• GalaxyS5 • Nexus5 • XperiaZ5
Tablet	iOS7	Safari® 7	• iPad Air
	Android™ 4.2–4.4	Google Chrome™ Ver. 45	• Nexus10 • XperiaZ2

Note: The operating environments were verified with AE-200/AE-50/EW-50 Ver. 7.4.

Note: Registered trademarks

- Android is a registered trademark of Google Inc. in the U.S. and other countries.
- Apple is a trademark of Apple Inc., registered in the U.S. and other countries.
- Google is a registered trademark of Google Inc.
- Google Chrome is a registered trademark of Google Inc. in the U.S. and other countries.
- Internet Explorer is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries.
- The official name of Internet Explorer is “Microsoft® Internet Explorer Internet browser”.
- iOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.
- iPad is a trademark of Apple Inc., registered in the U.S. and other countries.
- Mac OS is a trademark of Apple Inc., registered in the U.S. and other countries.
- Microsoft Office Excel is a product name of Microsoft Corporation in the U.S.
- Windows is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries.
- The official name of Windows is “Microsoft® Windows® Operating System”.
- Safari is a trademark or registered trademark of Apple Computer, Inc. in the U.S.
- Nexus is a registered trademark of Google Inc. in the U.S. and other countries.
- Xperia is a trademark or registered trademark of Sony Corporation.
- Galaxy is a trademark or registered trademark of Samsun Co., Ltd.

Note: Company name or product name that is described in this manual may be a trademark or a registered trademark of each company.

2. Setting the Operating Environment

This Integrated Centralized Control Web can be connected to multiple centralized controllers to operate and monitor air conditioning unit groups.
This section explains the settings for the condition monitoring and operating of air conditioning units with Integrated Centralized Control Web.

2-1. License

A license may be required for this Integrated Centralized Control Web depending on the scope of integrated management. (AE-200E/AE-50E/EW-50E only)
If you wish to manage the centralized controllers of two or more systems with Integrated Centralized Control Web, a license is required.

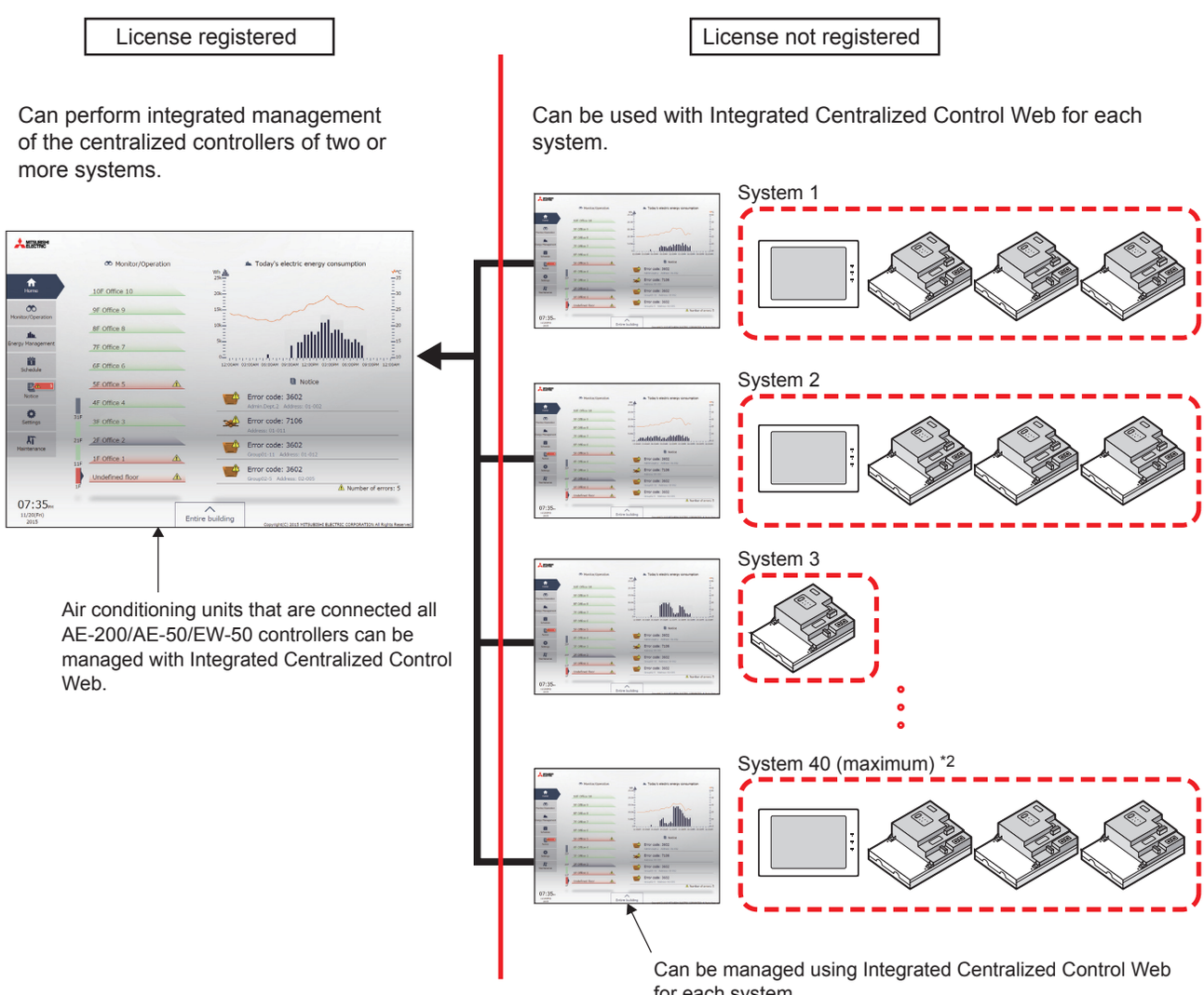
License	Management scope	Maximum number of air conditioning units to be managed
Not registered	1 system	200 *1
Registered	2 or more systems	2000

*1 50 units when using a single EW-50.

Note: License registration enables up to 40 centralized controllers to be managed.

Note: One system is a set of equipment consisting of one AE-200 and up to four expansion controllers, and a group of 200 air conditioning units can be connected to one system. When using a single EW-50, the EW-50 counts as one system.

Note: When the license is not registered, the number of air conditioning units that can be managed when using a single EW-50 is 50.



*2 When using EW-50 for all systems

2-2. System Settings

To use Integrated Centralized Control Web, you need to configure the settings using Initial Setting Tool.
Refer to the Instruction Book (Initial Settings) for details.

Important

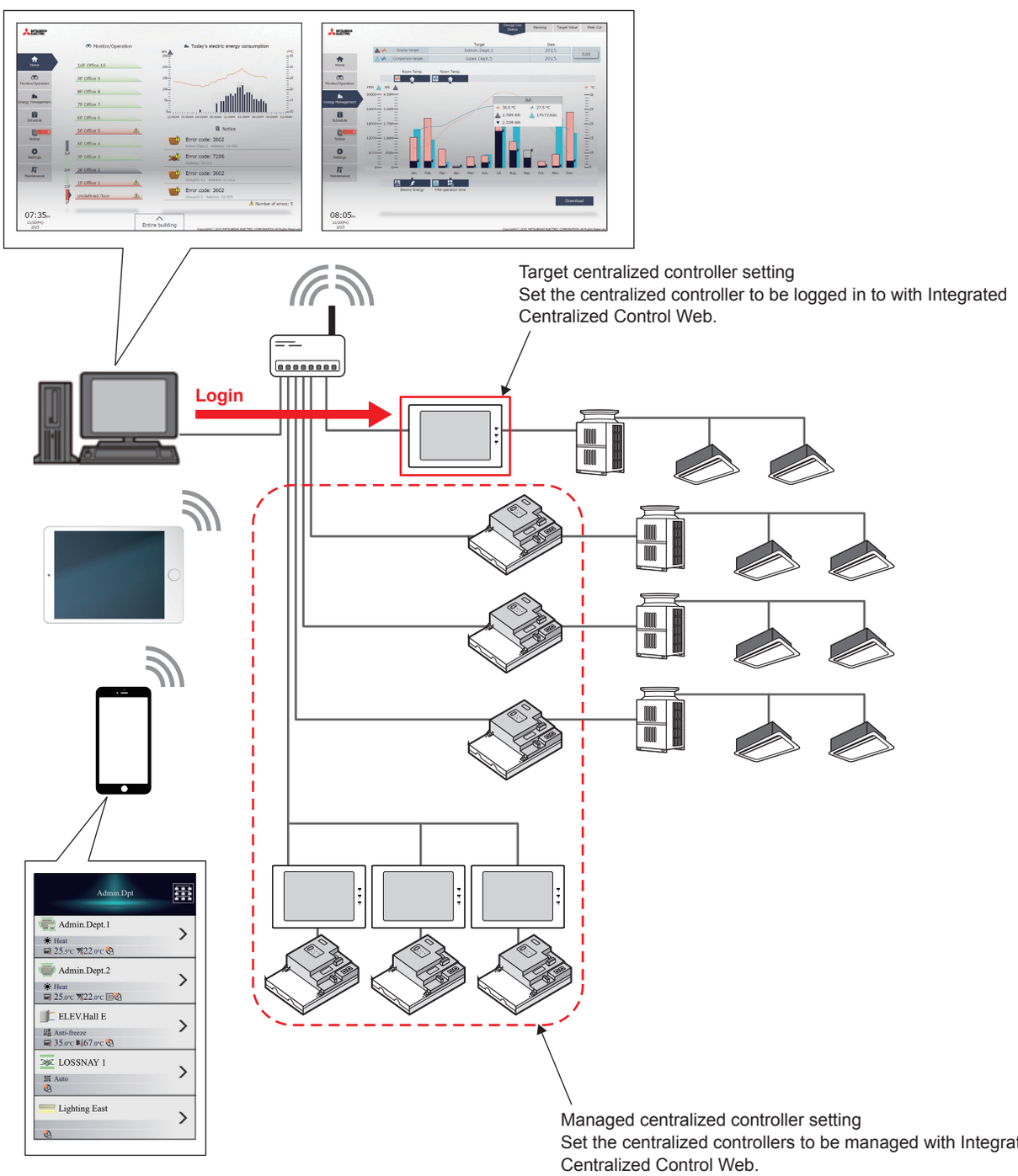
- When using Initial Setting Tool, be sure to configure the settings as described in the procedures of Instruction Book (Initial Settings).
- When not using Initial Setting Tool, only the indoor/outdoor units that are under the control of the login destination centralized controller can be monitored and operated.

[1] Settings of the centralized controllers to be managed with Integrated Centralized Control Web

Use Initial Setting Tool to configure the settings of the centralized controllers to be managed with Integrated Centralized Control Web.

(1) In [Basic Settings] > [System Configuration] of Initial Setting Tool, specify the IP address of each centralized controller to be managed with Integrated Centralized Control Web.

(2) In [Floor Settings] > [Floor for Integrated Centralized Control Web], set the login destination centralized controller (target centralized controller) of Integrated Centralized Control Web and the management target centralized controllers (managed centralized controllers).



Note: When connecting an AE-200/AE-50/EW-50 to an existing LAN, consult the system administrator to decide the IP addresses.

Note: When using an AE-200/AE-50/EW-50-dedicated LAN, it is recommended that the AE-200 unit and the EW-50 unit (only when used alone) be assigned an IP address between the range [192.168.1.1] and [192.168.1.40], and the expansion controller AE-50/EW-50 unit be assigned an IP address between the range [192.168.1.211] and [192.168.1.249].

[2] Floor settings

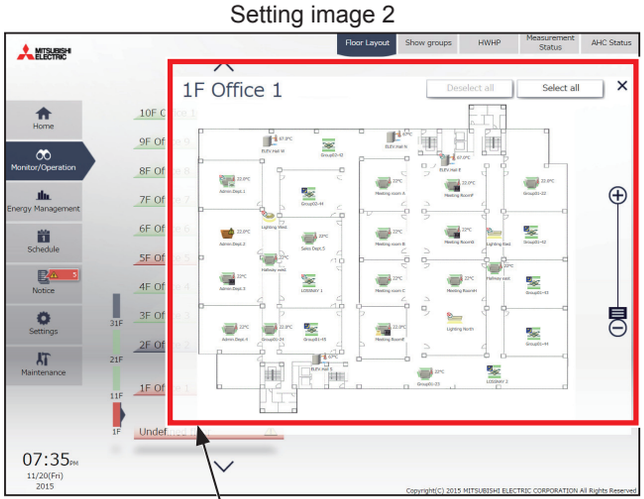
Use Initial Setting Tool to configure the floor settings of Integrated Centralized Control Web.
The configured settings are displayed in Integrated Centralized Control Web.

Setting image 1



Procedure 1
Make settings of floors and floor names on the “Floor for Integrated Centralized Control Web” setting screen.

Setting image 2



Procedure 2
Make settings of floor layouts and icon locations on the “Floor Layout for Integrated Centralized Control Web” setting screen.

(1) In [Floor Settings] > [Floor for Integrated Centralized Control Web] of Initial Setting Tool, set the floor names and floor number configuration displayed on the home screen of Integrated Centralized Control Web.

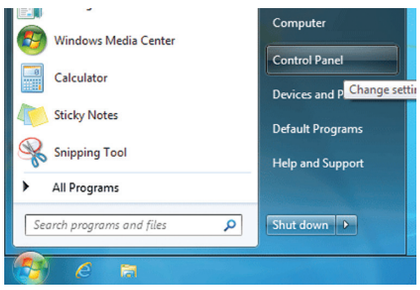
(2) In [Floor Settings] > [Floor Layout for Integrated Centralized Control Web], set the floor layout diagram and icon locations.

2-3. Network settings

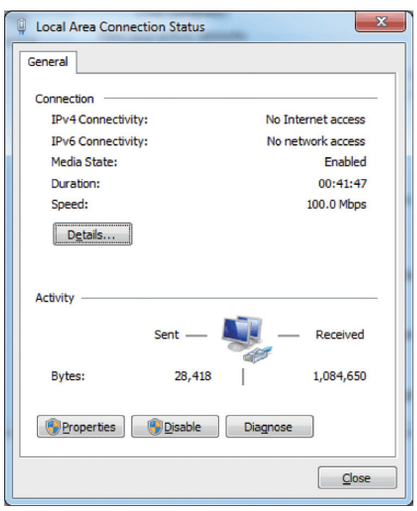
[1] Setting the IP address of the PC

Follow the instructions below to set the PC's IP address to connect the Integrated Centralized Control Web and multiple centralized controllers.
The PC's IP address must have the same network address as the AE-200/AE-50/EW-50's IP address.

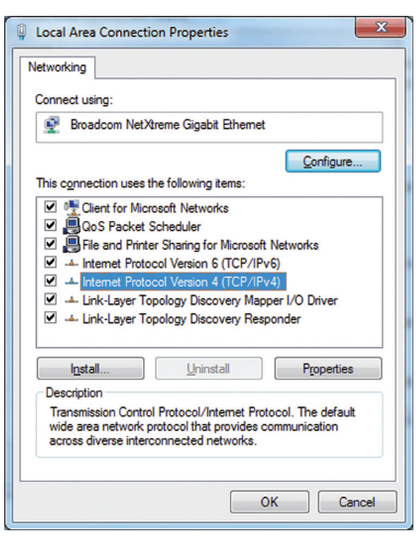
(1) Click [Control Panel] in the Start menu.



(2) Click [Network and Sharing Center]>[Local Area Connection].
In the [Local Area Connection Status] window, click [Properties].



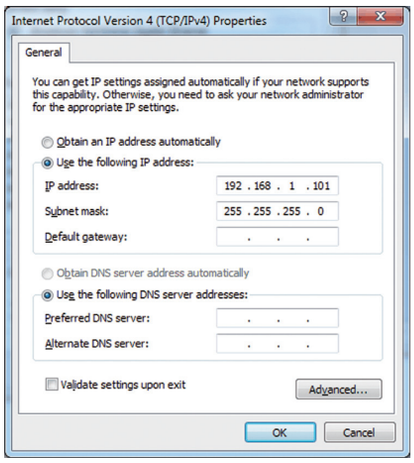
(3) Click [Internet Protocol Version 4 (TCP/IPv4)] to select it, and click [Properties].



(4) In the [Internet Protocol Version 4 (TCP/IPv4) Properties] window, check the radio button next to [Use the following IP address].
Enter the PC's IP address (e.g., [192.168.1.101]) in the [IP address] field, and enter the subnet mask [255.255.255.0] (unless otherwise specified) in the [Subnet mask] field.
In the [Default gateway] field, enter the gateway address as necessary.

Note: Consult the system administrator to decide the IP, subnet mask, and gateway addresses.

Note: Take a note of the IP address, subnet mask, and default gateway before making changes.

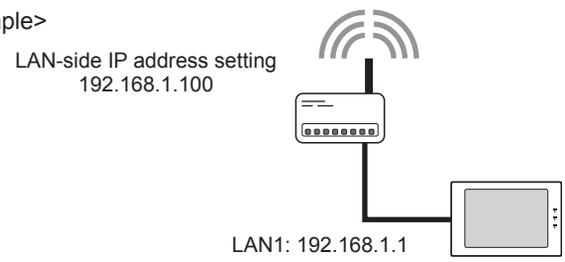


(5) Keep clicking [OK] or [Close] to close all windows.

[2] Setting the wireless LAN router

When connecting a tablet, you need to configure the wireless LAN router settings.
Set the LAN-side IP address of the wireless LAN router to a network address of the same system as the IP address of the centralized controller AE-200/AE-50/EW-50.

<Example>



Important

- For details on how to set the IP address of the wireless LAN router, refer to the Instruction Book of your wireless LAN router.

[3] Setting the IP address of the tablet and smartphone

When using this Integrated Centralized Control Web with a tablet or smartphone, you need to set the IP address of the tablet or smartphone.
Here we describe the example of using an Apple iPad.

(1) Select the [Settings] icon on the home screen.

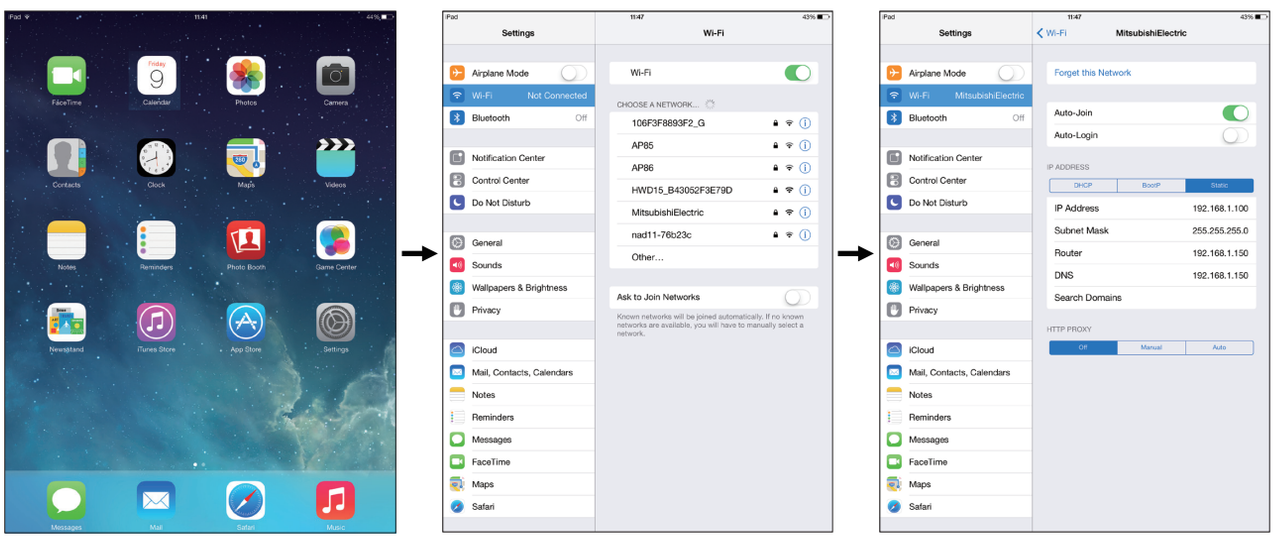
(2) Select the [Wi-Fi] menu in the [Settings] screen and then turn on the Wi-Fi setting.
Select the SSID of the wireless LAN router you wish to connect to from the [CHOOSE A NETWORK...] list and then connect.

(3) Open the [Static] tab and configure the IP address settings of the tablet.

Important

- Consult the system administrator to decide the IP address, subnet mask, and DNS.
- Set the IP address of the tablet and smartphone so that it does not duplicate the IP address of a centralized controller.
- We recommend setting a static IP address for the IP address of the tablet or smartphone.

Note: The tablet or smartphone cannot be connected to the external Internet when connected to the wireless LAN router for Integrated Centralized Control Web.

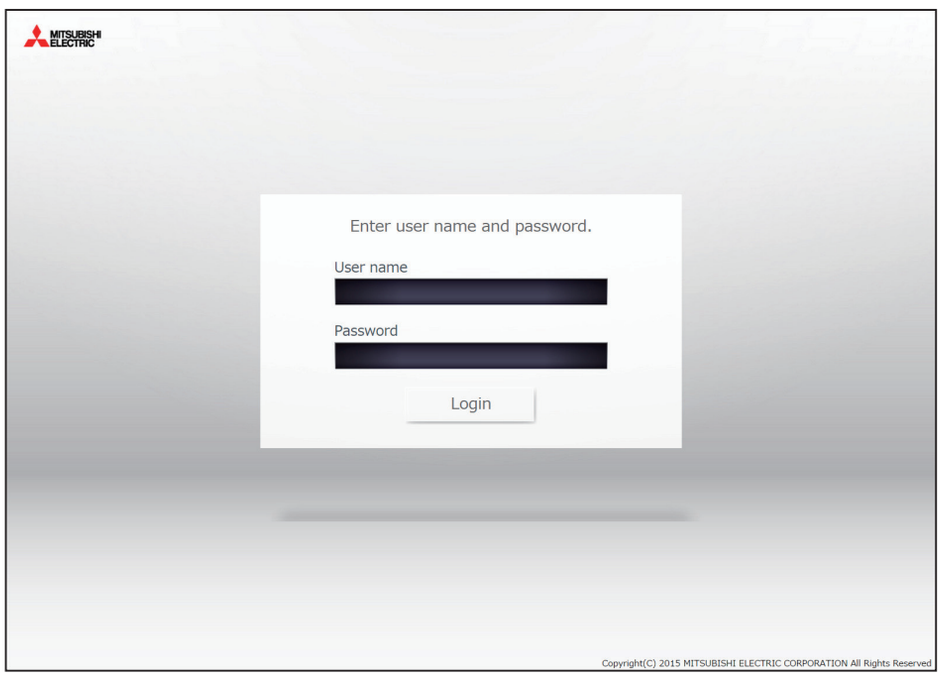


3. Logging in to the Integrated Centralized Control Web

3-1. Logging in from the PC/tablet

(1) Enter the web page address in the address field of the Web browser as follows:
http://[IP address of the login destination AE-200/EW-50]/control/index.html

(2) A login screen will appear.



Note: If the IP address of the AE-200/EW-50 is [192.168.1.1], the web page address is [http: //192.168.1.1/control/index.html].

Note: Use an Initial Setting Tool to configure the login destination centralized controller settings.

Note: The web page will be displayed in the same language as the operating system on the PC.
The web page can be displayed in other languages by entering the web page address as follows:

Chinese	http://[IP address of AE-200/EW-50]/control/index.html?zh
English	http://[IP address of AE-200/EW-50]/control/index.html?en
French	http://[IP address of AE-200/EW-50]/control/index.html?fr
German	http://[IP address of AE-200/EW-50]/control/index.html?de
Italian	http://[IP address of AE-200/EW-50]/control/index.html?it
Japanese	http://[IP address of AE-200/EW-50]/control/index.html?ja
Portuguese	http://[IP address of AE-200/EW-50]/control/index.html?pt
Russian	http://[IP address of AE-200/EW-50]/control/index.html?ru
Spanish	http://[IP address of AE-200/EW-50]/control/index.html?es
Turkish	http://[IP address of AE-200/EW-50]/control/index.html?tr

Note: You can add the web page address to your Favorites on the login screen for easy access in the future.

Note: When using the Integrated Centralized Control Web on a tablet, depending on the tablet used, the bottom of the operation screen may be cut off. In the event of this, create a shortcut on the Home screen from which to start the application. Refer to 5 “Screen displayed with bottom part cut off on a tablet” in Chapter 5 for details on how to add a shortcut to the Home screen.

Note: Depending on the PC display used, the bottom of the operation screen may be cut off. In the event of this, switch the browser to full screen mode.

(3) Enter the user name and the password in the login screen, and click [Login]. A screen that shows the operation status of the air conditioning units will appear.
The table below shows the default user names, passwords, and functions that are available for building managers, tenant managers, and general users.

User	Terminal	Default user name	Default password	Available functions	
Building manager	• PC • Tablet	administrator	admin	Home	• Brief display of all floors • Display of electric energy consumption • Display of error status
				Monitor/ Operation	• Display of floor layouts and monitoring/ operating the operation status on the group list • Display of measurement status • Display of AHC status • Monitoring/operating the HWHP operation status
				Energy Management	• Energy use status • Ranking • Monitoring target values • Peak Cut Control status
				Schedule	• Changing today's schedule • Weekly schedule setting 1–5 • Annual schedule setting • Date range setting for weekly schedule
				Notice	• Display of units in error • Display of unit error log • Display of communication error • Display of filter sign
				Settings	• Screen display setting • User registration • Current time setting • License registration
				Maintenance	• Error notification e-mail log • Monitoring outdoor unit operation status • Monitoring indoor unit free contact • Gas Refrigerant Amount Check • CSV output (only PC)
Tenant manager		—	—	Monitor/ Operation	• Monitoring/operating the operation status on the group list • Monitoring/operating the HWHP operation status
				Energy Management	• Energy use status • Ranking • Monitoring target values
				Schedule	• Changing today's schedule • Weekly schedule setting 1–5 • Annual schedule setting
General user	• PC • Tablet • Smartphone	—	—	Monitor/ Operation	• Monitoring/operating the operation status • Monitoring/operating the HWHP operation status (excluding smartphone)

Note: Tenant managers and general users are not registered at the time of shipment. Up to 200 tenant managers and 2,000 general users can be registered. You can log in with building manager privileges and then use the user management function to set the air conditioning unit groups that can be monitored and operated by each user. Refer to 2-5-2 "User registration" in Chapter 2 for details.

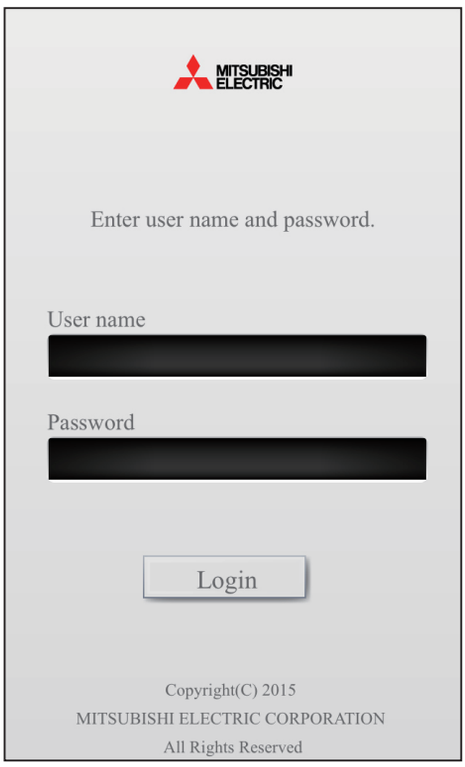
Note: It is recommended to change the default user name and password so that the users other than the building managers will not be able to change the settings.

3-2. Logging in from the smartphone

Note: Be sure to use a smartphone in portrait mode.

(1) Enter the web page address in the address field of the Web browser as follows:
http://[IP address of the login destination AE-200/EW-50]/mobile/index.html

(2) A login screen will appear.



Note: Use an Initial Setting Tool to configure the login destination centralized controller settings.

Note: Only general users can log in.

Note: If the IP address of the AE-200/EW-50 is [192.168.1.1], the web page address is [http: //192.168.1.1/mobile/index.html].

Note: The web page will be displayed in the same language as the operating system on the smartphone.
The web page can be displayed in other languages by entering the web page address as follows:

Chinese	http://[IP address of AE-200/EW-50]/mobile/index.html?zh
English	http://[IP address of AE-200/EW-50]/mobile/index.html?en
French	http://[IP address of AE-200/EW-50]/mobile/index.html?fr
German	http://[IP address of AE-200/EW-50]/mobile/index.html?de
Italian	http://[IP address of AE-200/EW-50]/mobile/index.html?it
Japanese	http://[IP address of AE-200/EW-50]/mobile/index.html?ja
Portuguese	http://[IP address of AE-200/EW-50]/mobile/index.html?pt
Russian	http://[IP address of AE-200/EW-50]/mobile/index.html?ru
Spanish	http://[IP address of AE-200/EW-50]/mobile/index.html?es
Turkish	http://[IP address of AE-200/EW-50]/mobile/index.html?tr

Note: You can add the web page address to your Favorites on the login screen for easy access in the future.

(3) Enter the user name and the password in the login screen, and click [Login]. A screen that shows the operation status of the air conditioning units will appear. The table below shows the functions that are available for general users.
No user names and passwords are registered at the time of shipment, so you need to log in with building manager privileges and register the users.

User	Terminal	Default user name	Default password	Available functions	
General user	• Smartphone	—	—	Monitor/ Operation	• Monitoring/operating the operation status

Note: The user name and password of a general user is the same as for a PC or tablet.

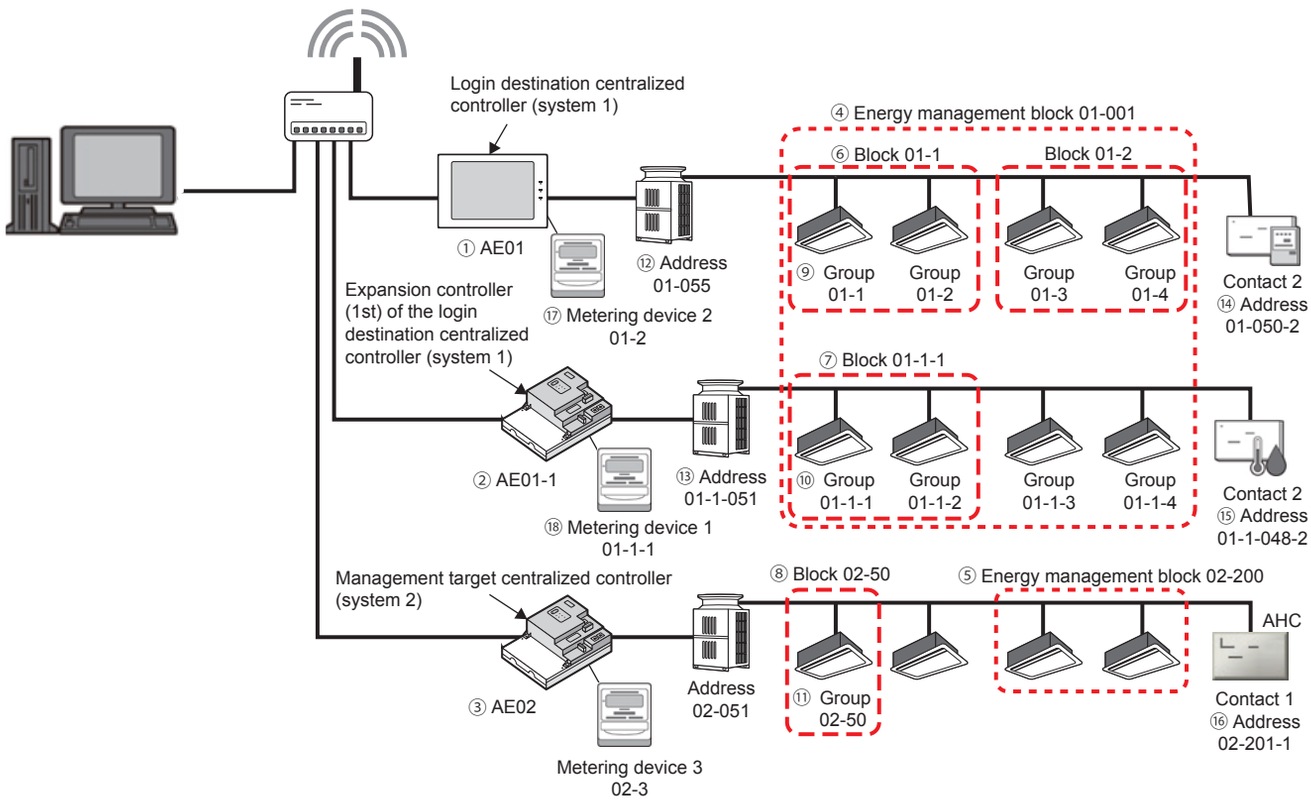
4. Name Display

The names of air conditioning units can be displayed in this Integrated Centralized Control Web. If the name settings are not set, names are displayed in accordance with the following rules.

Note: For how to set the names of groups, blocks, and energy management blocks, refer to the Instruction Book (Initial Settings).

Note: The numbering system of centralized controllers and expansion controllers becomes the numbers registered in “Initial Setting Tool – Basic Settings – System Configuration” in the Instruction Book (Initial Settings).

Note: EW-50 is displayed as “AE**” on the Integrated Centralized Control Web.



Name display in Integrated Centralized Control Web when the name settings are not set

Target	No.	Description	Name
Centralized controller	①	Login destination centralized controller (system 1)	AE01 (AE No.)
	②	Expansion controller (1st) of the login destination centralized controller (system 1)	AE01-1 (AE No.)
	③	Management target centralized controller (system 2)	AE02 (AE No.)
Energy management block	④	Energy management block (Block No. 1) of the login destination centralized controller (system 1)	Energy management block 01-001
	⑤	Energy management block (Block No. 200) of the login destination centralized controller (system 2)	Energy management block 02-200
Block	⑥	Block (Block No. 1) of the login destination centralized controller (system 1)	Block 01-1
	⑦	Block (Block No. 1) of the expansion controller (1st) of the login destination centralized controller (system 1)	Block 01-1-1
	⑧	Block (Block No. 1) of the management target centralized controller (system 2)	Block 02-50
Group	⑨	Group (Group No. 1) of the login destination centralized controller (system 1)	Group 01-1
	⑩	Group (Group No. 1) of the expansion controller (1st) of the login destination centralized controller (system 1)	Group 01-1-1
	⑪	Group (Group No. 50) of the management target centralized controller (system 2)	Group 02-50

Target	No.	Description	Name
Address	⑫	Address (Address No. 55) of the login destination centralized controller (system 1)	Address 01-055
	⑬	Address (Address No. 51) of the expansion controller (1st) of the login destination centralized controller (system 1)	Address 01-1-051
	⑭	Contact number (Contact No. 2) of the Address (Address No. 50) of the login destination centralized controller (system 1)	Address 01-050-2
	⑮	Contact number (Contact No. 2) of the Address (Address No. 48) of the expansion controller (1st) of the login destination centralized controller (system 1)	Address 01-1-048-2
	⑯	Contact number (Contact No. 1) of the Address (Address No. 201) of the management target centralized controller (system 2)	Address 02-201-1
Metering device (Pulse input)	⑰	Contact number (Contact No. 2) of the Pulse input of the login destination centralized controller (system 1)	Metering device 01-2
	⑱	Contact number (Contact No. 1) of the Pulse input of the expansion controller (1st) of the login destination centralized controller (system 1)	Metering device 01-1-1

Chapter 2. For building managers

When logged in with building manager privileges, all functions on the Integrated Centralized Control Web are available for use.

1. Home screen

Log into the AE-200 to display the Home screen. From here, it is possible to carry out monitoring, operation, and start various functions.

Login URL: http://[IP address of the login destination centralized controller AE-200/EW-50]/control/index.html

Note: For how to log in to the Integrated Centralized Control Web using a PC or tablet, refer to 3 “Logging in to the Integrated Centralized Control Web” in Chapter 1.

Note: Login processing may require approximately 1 minute. Also, switching between pages sometimes takes approximately 3 seconds. More time may be required, depending on your communications environment, terminal functionality, and the number of devices in the managed air conditioning unit group.

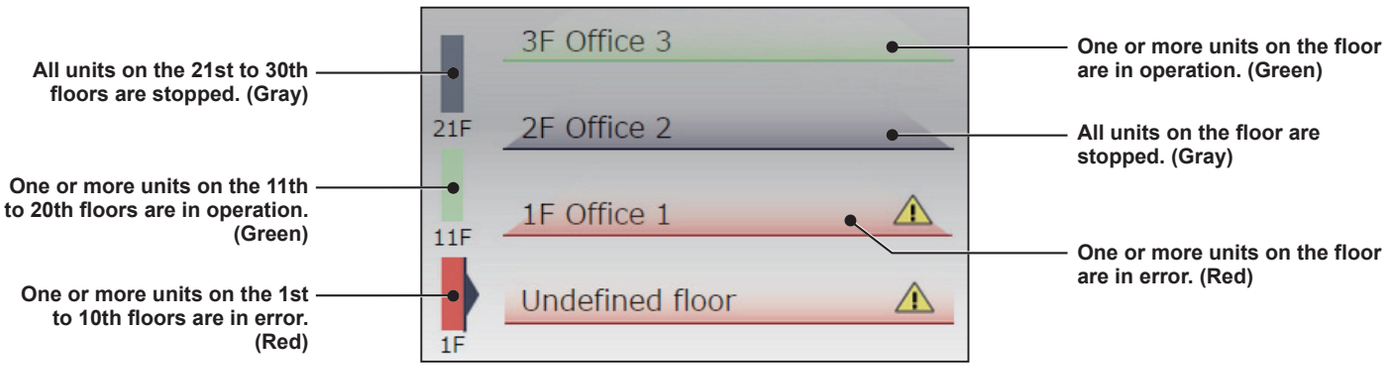


[1] Menu

Home	Home	Displays a Home screen.
Monitor/Operation	Monitor/Operation	Displays a screen to monitor and operate the operation conditions of each unit group.
Energy Management	Energy Management	Displays the energy use status of each unit group.
Schedule	Schedule	Sets the schedule operations for each unit group.
Notice	Notice	Displays error status that are occurring in a system. Indicates the number of errors on the button.
Settings	Settings	Sets the settings such as screen display and user management.
Maintenance	Maintenance	Displays and sets the maintenance information of unit groups.

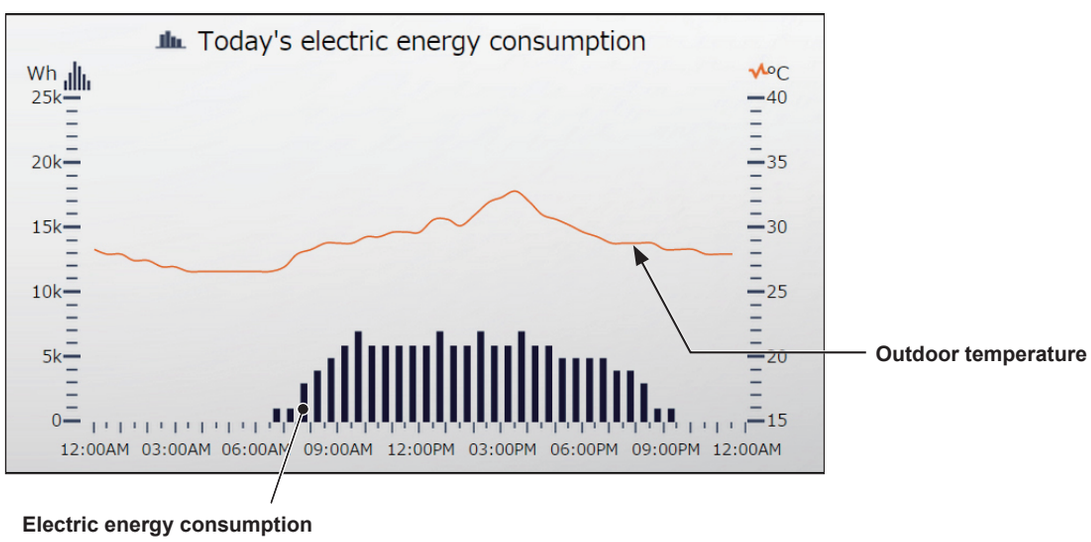
[2] Monitor/Operation

This simply displays the operation status of the unit groups in the system.
It allows you to quickly grasp the operation, stopped, and error occurrence status on each floor.



[3] This year's electric energy consumption

This displays the electric energy consumption and outdoor temperature for all unit groups in the system.
Clicking the graph changes the screen to "Energy Use Status" of the "Energy Management" menu.

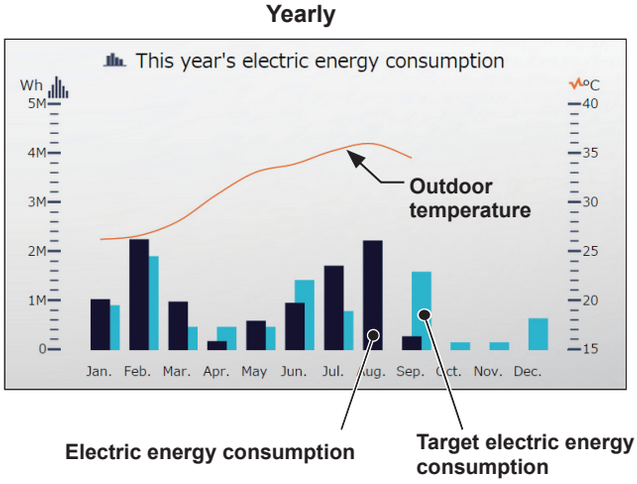


Note: The outdoor temperature will appear only when the temperature sensor to measure the outdoor temperature is set in the Energy Management settings for the login destination centralized controller. Refer to the Instruction Book (Initial Settings) for settings methods.

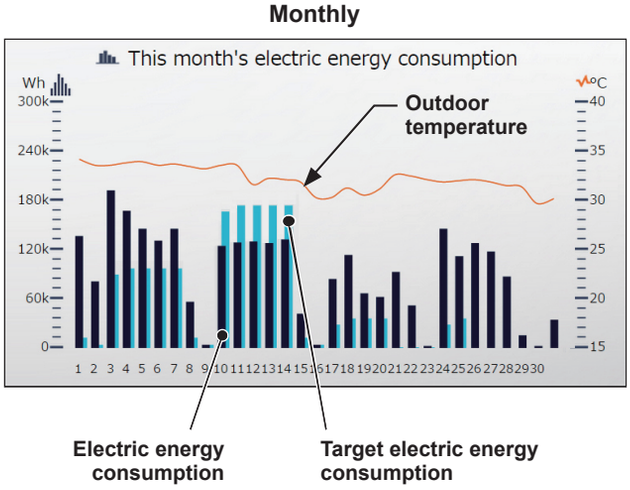
Note: "Yearly," "Monthly," and "Daily" can be selected for the electric energy consumption displayed on the Home screen. Refer to section 2-5-1 "Screen display settings" for settings methods. The factory default setting is "Daily."

Note: When the target electric energy is set, the target electric energy is displayed only for "Yearly" and "Monthly".

Yearly

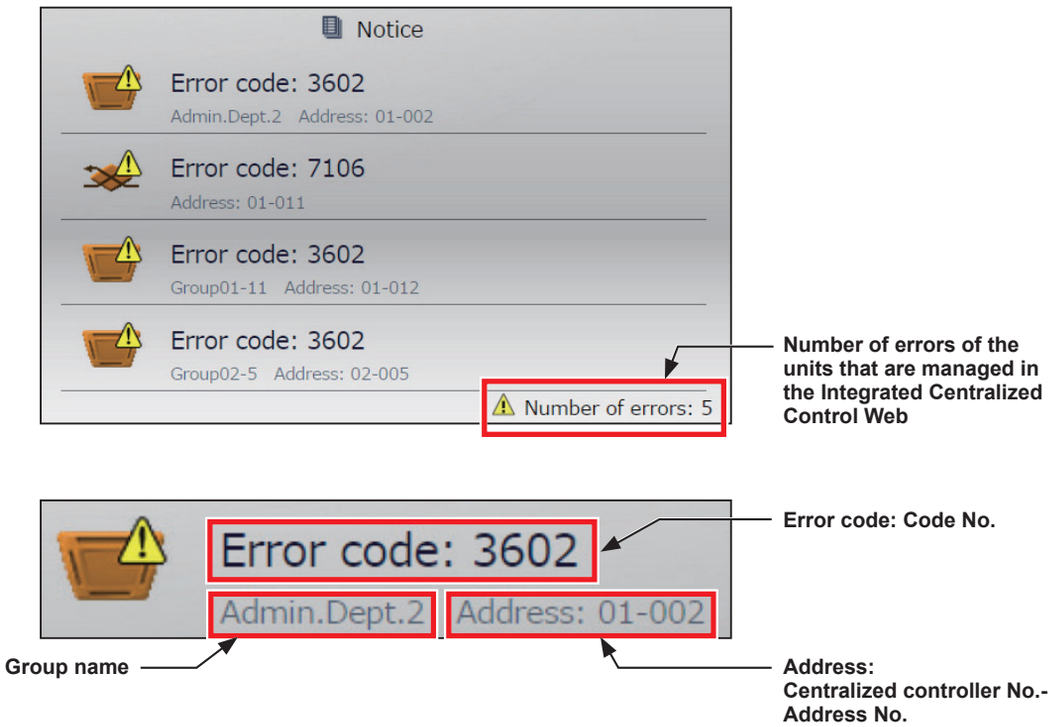


Monthly



[4] Notice

This displays the current error status of unit groups in the system.
Clicking this changes the screen to “Error list” of the “Notice” menu.



[5] Entire building

This allows you to simultaneously operate all unit groups that are managed by the Integrated Centralized Control Web.

[6] Current date and time

This displays the time of the PC on which Integrated Centralized Control Web is used.

Note: Execution time of the scheduled tasks as well as time in history log files are executed and displayed as per the time on the centralized controller.

Note: Schedule setting and date selection/display for energy management are as per the time on the PC.

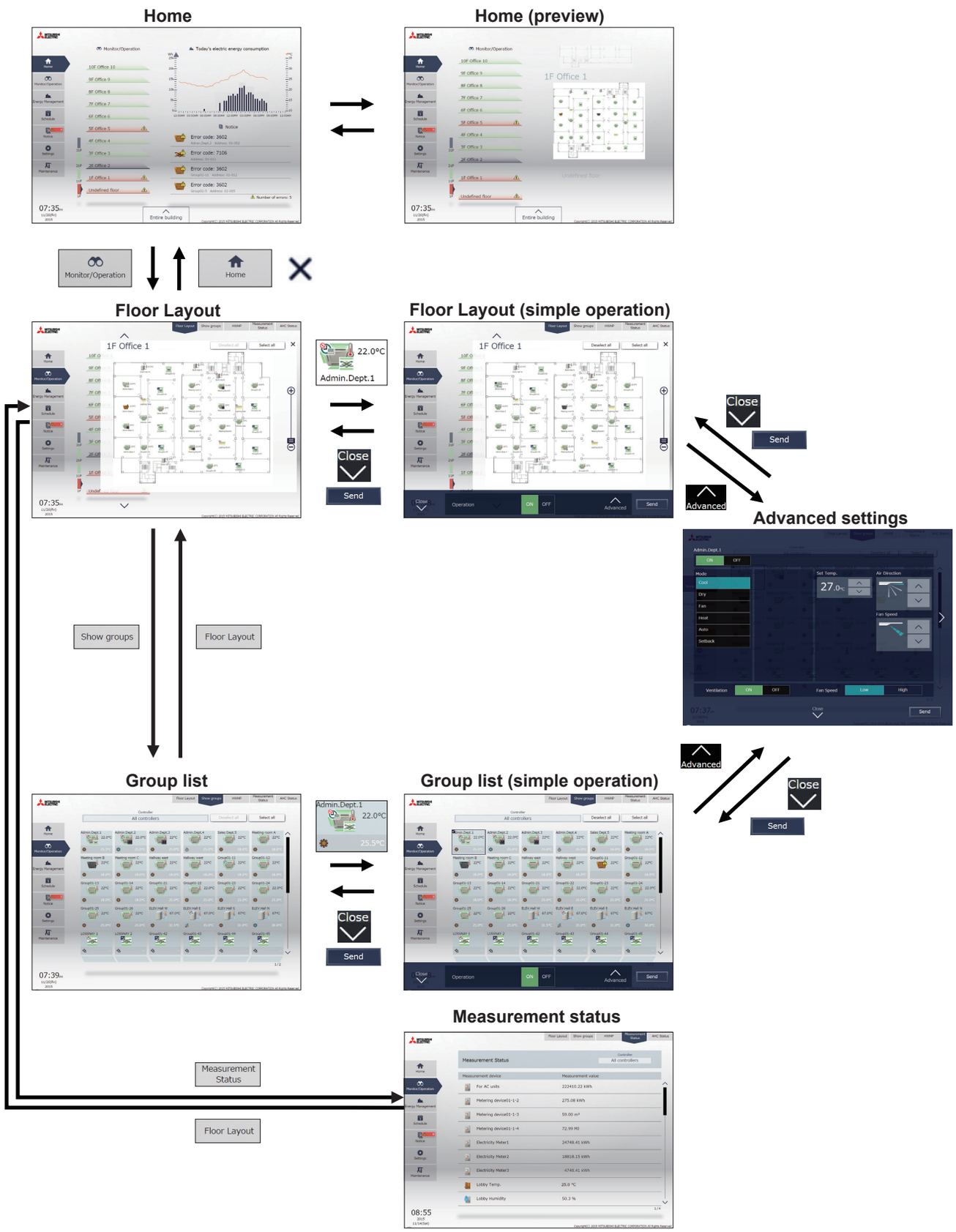
Note: Ensure that the time on the Integrated Centralized Control Web and on the managed centralized controller match when using the Integrated Centralized Control Web. Refer to 2-5-3 [1] “Date and Time Settings” in Chapter 2 for details on ensuring these match.

2. Usage

This section explains how to monitor and operate the air conditioning units, LOSSNAY units, Air To Water (PWFY) units, general equipment, and HWHP (CAHV, CRHV) units that are connected to the AE-200/AE-50/EW-50, and to check the measurement data, malfunctioning units, units whose filter sign is triggered, and AHC status.

2-1. Monitoring/Operation

2-1-1. Screen sequence

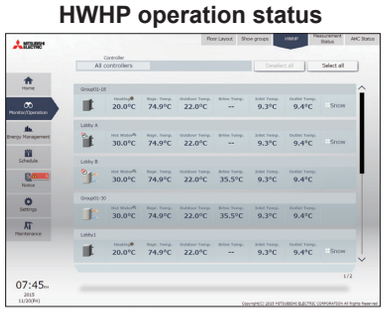


Floor Layout



HWHP ↕ Floor Layout

HWHP operation status



AHC Status ↕ HWHP

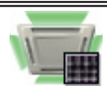
AHC status



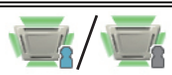
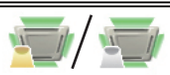
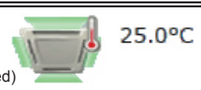
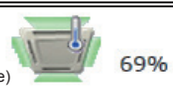
2-1-2. Group icons

Each group icon indicates the operation condition of the group. Click the icon, and then click [Advanced] to bring up the operation settings screen.

[1] Air conditioning unit group

ON	OFF	Error	Filter sign ON *1 *15	Interlocked LOSSNAY ON *2
				

Interlocked LOSSNAY OFF *3	Schedule set	Schedule disabled	Energy-saving ON *4 *10	Setback ON *8
				

Unit unknown *9	Occupied/Vacant *5 *6 *15	Bright/Dark *7 *8 *15	Room/Set temperature display *11 *15	Room humidity display *12 *13 *15
	 (blue) (gray)	 (yellow) (gray)	 (red) 25.0°C	 (blue) 69%

Hold ON *14


*1 Whether or not to display the filter sign ([ON], [OFF]) can be set in the initial settings.

*2 If the LOSSNAY unit is interlocked with the operation of Mr. Slim units, “Interlocked LOSSNAY ON” icon will appear, even when the LOSSNAY unit is operated individually.
(Applicable M-NET adapter model: PAC-SF48/50/60/70/80/81MA-E)

*3 If a LOSSNAY unit is interlocked with the operation of indoor units in multiple groups, the LOSSNAY unit may be in operation, even when the “Interlocked LOSSNAY OFF” icon is displayed.

*4 The “Energy-saving ON” icon will appear while the Peak Cut control is performed. Even when the operation of the group is stopped due to the Peak Cut control, the icon will appear.

*5 The Occupancy/Vacancy status icon will appear only when the remote controller in the group has an occupancy sensor. (ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA)) The Occupancy/Vacancy status icon will appear only when [ ] (blue), [ ] (gray), or [ ] (blue/gray) is selected in the initial settings.

*6 The Occupancy/Vacancy status icon takes priority over the “Interlocked LOSSNAY ON” and “Interlocked LOSSNAY OFF” icons.

*7 The Brightness/Darkness status icon will not appear only when the remote controller in the group has a brightness sensor. (ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA)) The Brightness/Darkness status icon will appear only when [ ] (yellow), [ ] (gray), or [ ] (yellow/gray) is selected in the initial settings.

*8 The “Setback ON” icon takes priority over the Brightness/Darkness status icon.

*9 The “Unit unknown” icon will stay when the AE-200/AE-50/EW-50 cannot be recognized after startup. Check for proper connection of the air conditioning units and proper group settings.

*10 The “Energy-saving ON” icon takes priority over the “Room temperature display” and “Room humidity display” icons.

*11 Display option of the temperature ([Room temp. (Always)], [Room temp. (During operation)], [Set temp.], [Hide]) can be set in the initial settings.

*12 The “Room humidity display” icon will appear only when the remote controller in the group has a humidity sensor. (ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA))

*13 Whether or not to display the humidity ([ON], [OFF]) can be set in the initial settings.

*14 The “Hold ON” icon is displayed for the AE-200A/AE-50A/EW-50A, but not for the AE-200E/AE-50E/EW-50E.

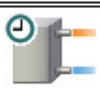
*15 Initial settings can be configured in the basic settings screen on the LCD or the Web browser for initial settings. Refer to the Instruction Book (Initial Settings) for details.

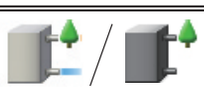
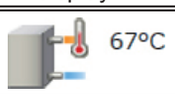
[2] LOSSNAY unit (ventilator) group

ON	OFF	Error	Filter sign ON *1 *6	Schedule set *3
				

Schedule disabled *3	Energy-saving ON *2	Night Purge ON *3	Hold ON *7
		 (blue)	

[3] Air To Water (PWFY) unit group and HWHP (CAHV, CRHV) unit group

ON	OFF	Error	Schedule set	Schedule disabled
				

Energy-saving ON *2	Water temperature display *4	Hold ON *7
	 (red) 67°C	

[4] Other equipment group

ON	OFF	Error	Schedule set *5 *6	Schedule disabled
				

Hold ON *7


*1 Whether or not to display the filter sign ([ON], [OFF]) can be set in the initial settings.

*2 The “Energy-saving ON” icon will appear while the Peak Cut control is performed. Even when the operation of the group is stopped due to the Peak Cut control, the icon will appear. This icon will not appear for the HWHP (CAHV, CRHV) unit groups.

*3 If Schedule is set during Night Purge operation, then the order of priority for display will be “Night Purge ON” → “Schedule set”. Even if Schedule is disabled, the order of priority for display will be “Night Purge ON” → “Schedule disabled”.

*4 The “Water temperature display” icon will not appear for the HWHP (CAHV, CRHV) unit groups.

*5 If any schedule setting is applied to a DIDO controller whose prohibition setting is enabled (“Allow operations” is set to [No operations] on the group settings screen in the initial settings), the “Schedule set” icon will appear, but the scheduled operations will not be performed. Refer to the Instruction Book (Initial Settings) for settings methods

*6 Initial settings can be configured in the basic settings screen on the Initial Setting Tool, LCD, or the Web browser for initial settings. Refer to the Instruction Book (Initial Settings) for details.

*7 The “Hold ON” icon is displayed for the AE-200A/AE-50A/EW-50A, but not for the AE-200E/AE-50E/EW-50E.

Note: Icons can be changed in the group settings screen in the initial settings. Refer to the Instruction Book (Initial Settings) for settings methods.

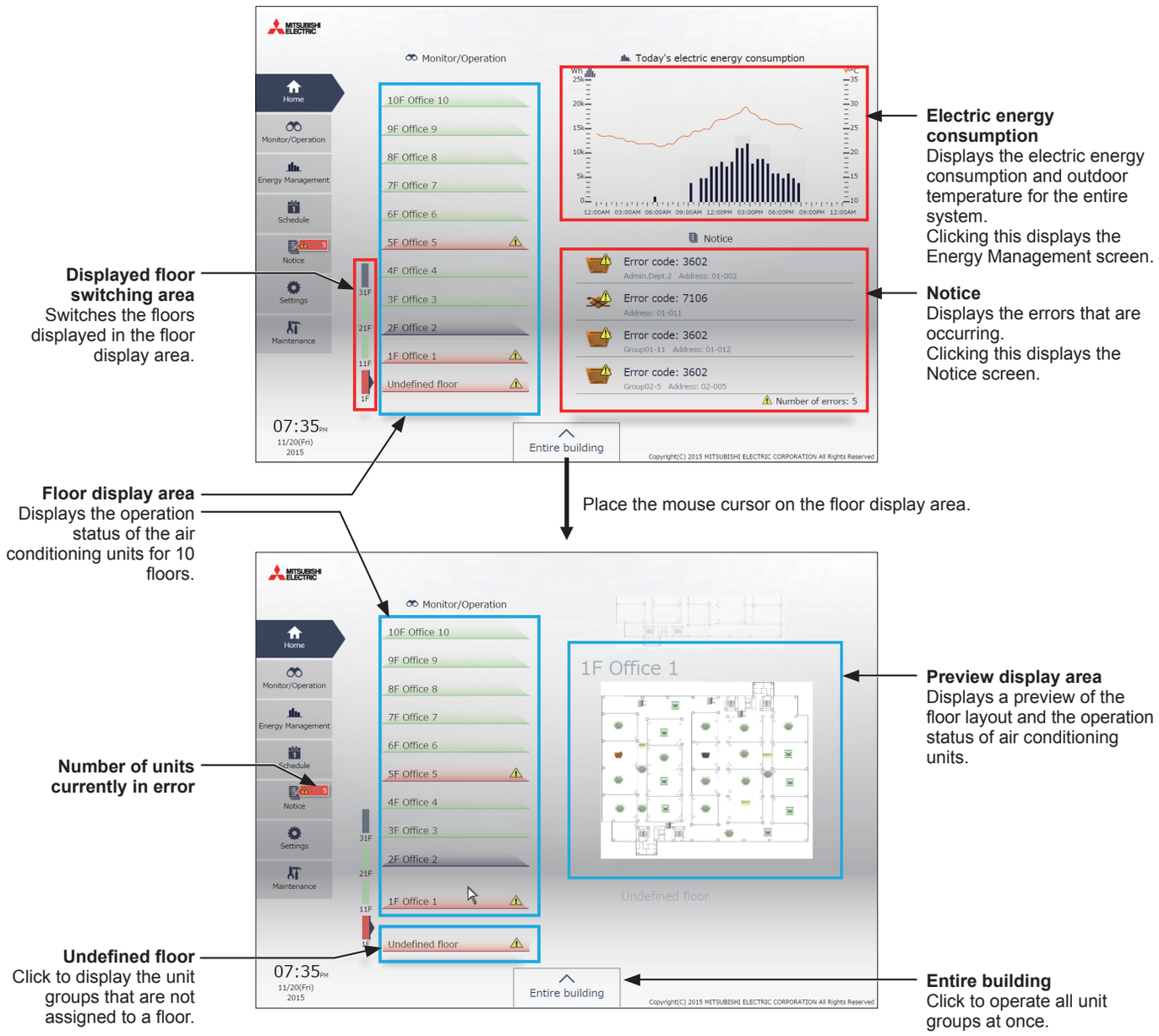
2-1-3. Monitoring the operation status

This section explains how to monitor the operation status of units.

[1] Home screen

The Home screen displays the operation status, electric energy consumption, and current error status of the units on each floor.

Placing the mouse cursor over the “Floor display area” displays a preview of the floor layout so that you can check the unit operation status. Clicking “Displayed floor switching area” switches the floors displayed in “Floor display area” in units of 10 floors.

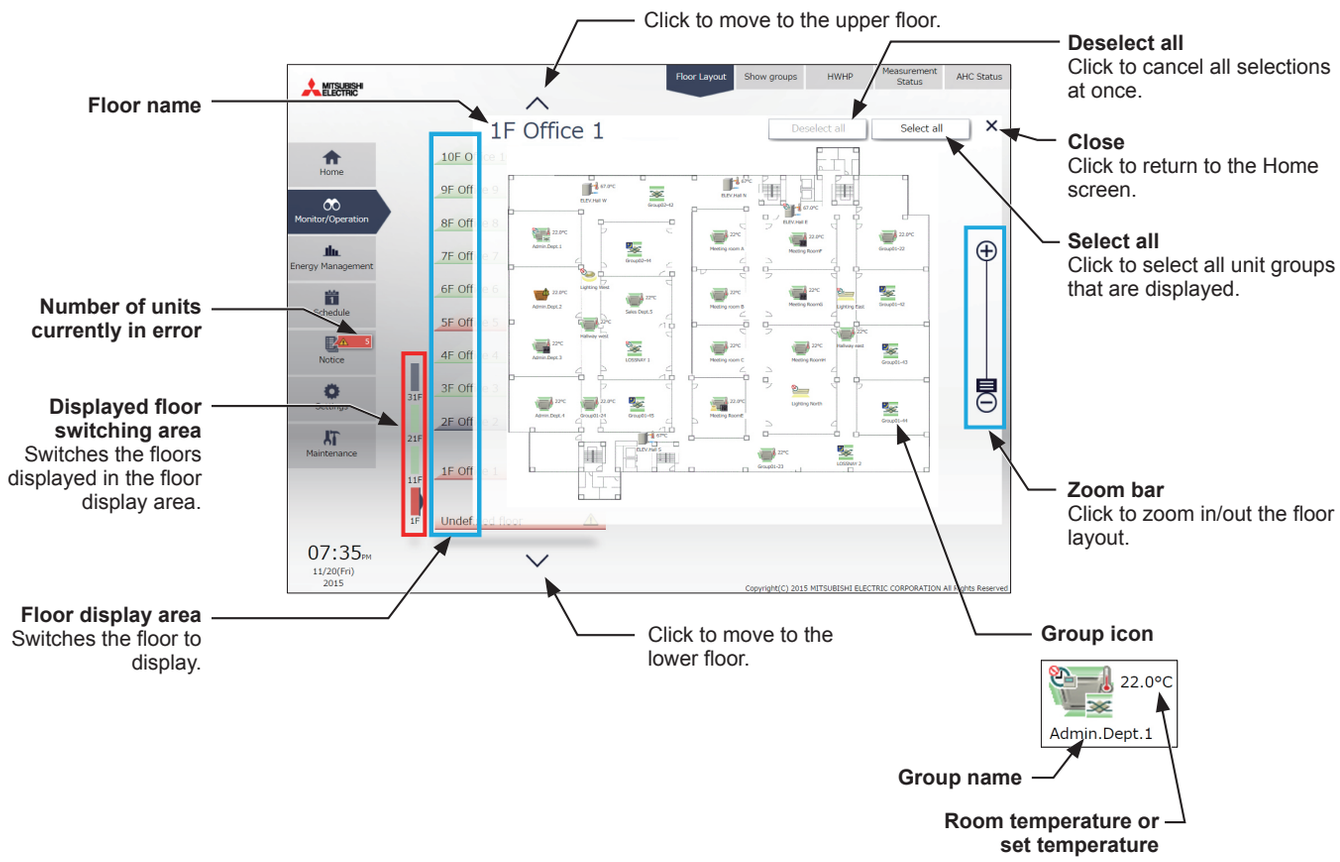


Item	Description
Displayed floor switching area	Switches the floors displayed in the floor display area in units of 10 floors. It simply displays the status of the air conditioning units registered to the floors. (Green): One or more units on the floor are in operation. (Gray): All units on the floor are stopped. (Red): One or more units on the floor are in error. Note: The number of buttons for switching displayed floors that are shown differs depending on the settings configured in “Floor settings” of Initial Setting Tool.
Floor display area	Displays the operation status of the air conditioning units for 10 floors. It simply displays the status of the air conditioning units registered to the floors. Green : One or more units on the floor are in operation. Gray : All units on the floor are stopped. Red : One or more units on the floor are in error.

Item	Description
Electric energy consumption	Displays the electric energy consumption of the entire air conditioning system. “Yearly,” “Monthly,” and “Daily” can be set for the display.
Notice	Displays the units with errors occurring in the entire air conditioning system.
Preview display area	Placing the mouse cursor over the floor display area displays a preview of the floor layout display.

[2] Floor Layout display

Click [Monitor/Operation] in the menu, and then click [Floor Layout] or “Floor display area” to display the operation status of unit groups on the floor layout. The floor layout to be displayed can be changed by clicking “Floor display area” and “Displayed floor switching area” while the floor layout is displayed.



Note: Either the room temperature or the set temperature can be displayed next to the group icon. The temperature display setting can be changed in the initial settings. Refer to the Instruction Book (Initial Settings) for how to make the temperature display setting.

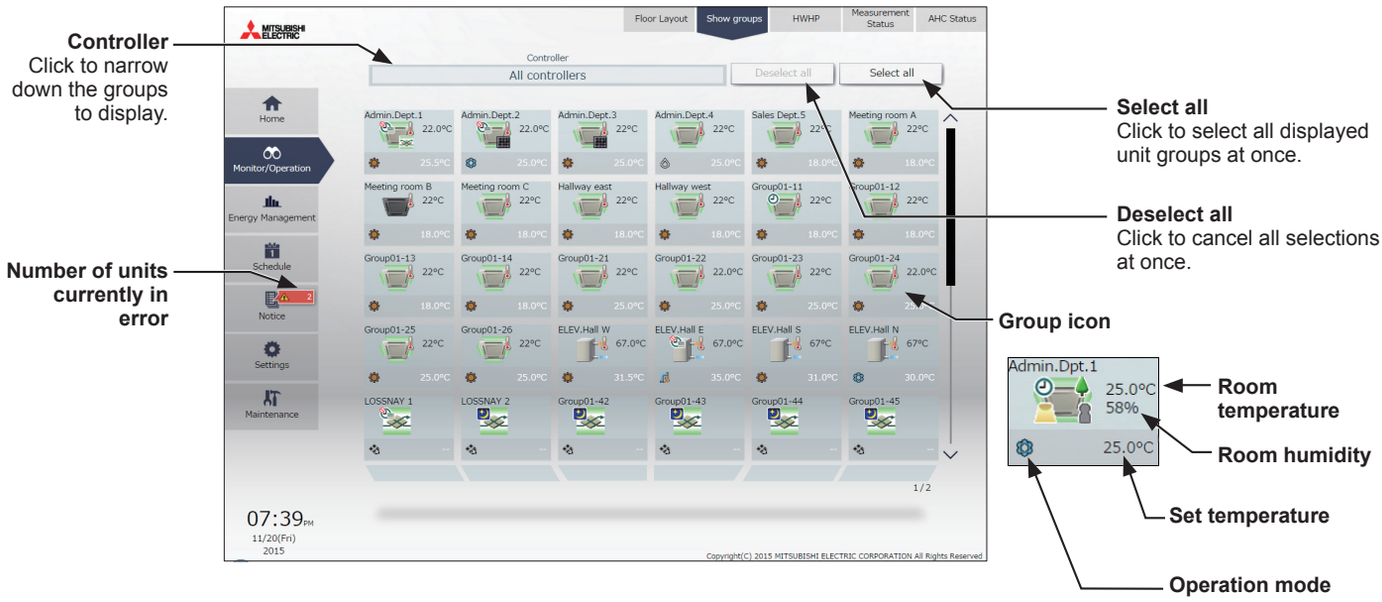
Note: If you click “Floor display area” in the Home screen, the menu changes to [Monitor/Operation] and the floor layout of the clicked floor is displayed.

Note: If a floor layout is not registered, a floor layout will not be displayed and all unit groups will be displayed in “Undefined floor.”

Note: The group name can be displayed using up to 10 double-byte, or 10 to 18 single-byte characters. The number of characters that can be displayed differs depending on character type. Name setting is carried out through initial settings. Refer to the Instruction Book (Initial Settings) for settings methods.

[3] Group list

Click [Monitor/Operation] in the menu, and then click [Show groups] to display the operation status of unit groups.



The operation mode currently in use is displayed in “Operation mode”.

• Air conditioning unit group

Cool	Dry	Fan	Heat	Auto	Auto (Cool)	Auto (Heat)	Setback
							

• LOSSNAY unit (ventilator) group

Bypass	Heat Recovery	Auto
		

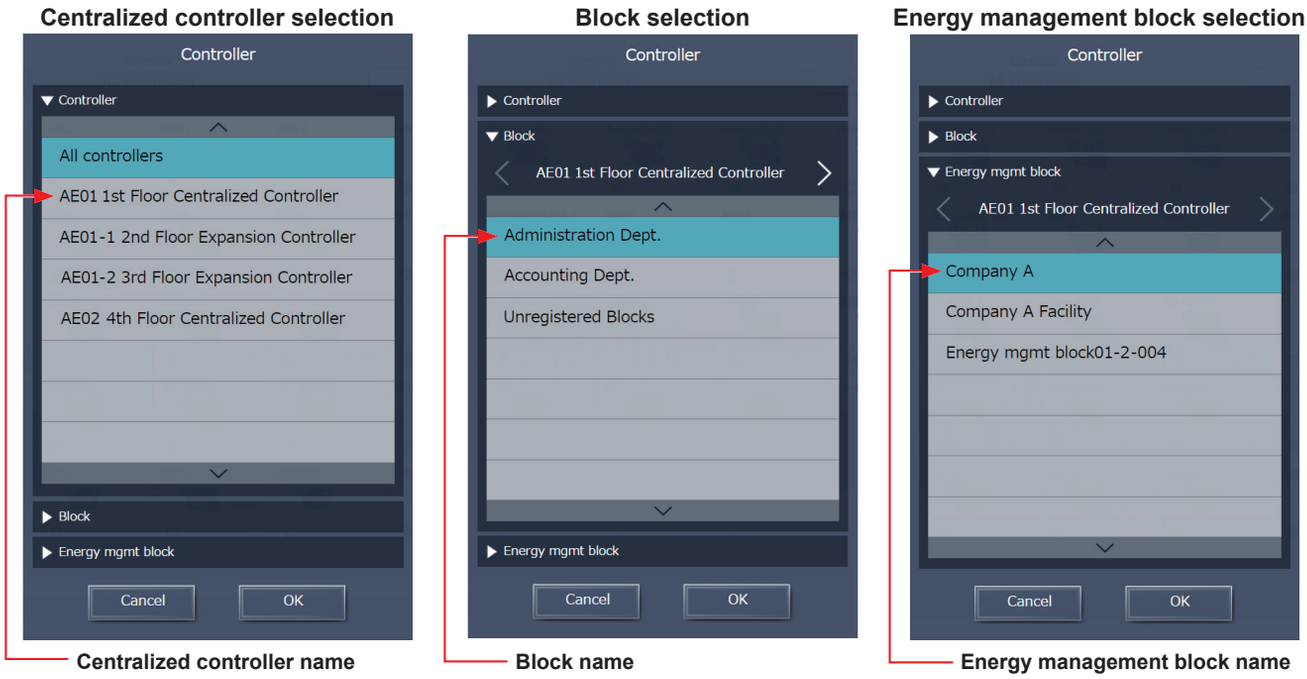
• Air To Water (PWFY) unit group

Heating	Heating ECO	Hot Water	Anti-freeze	Cooling
				

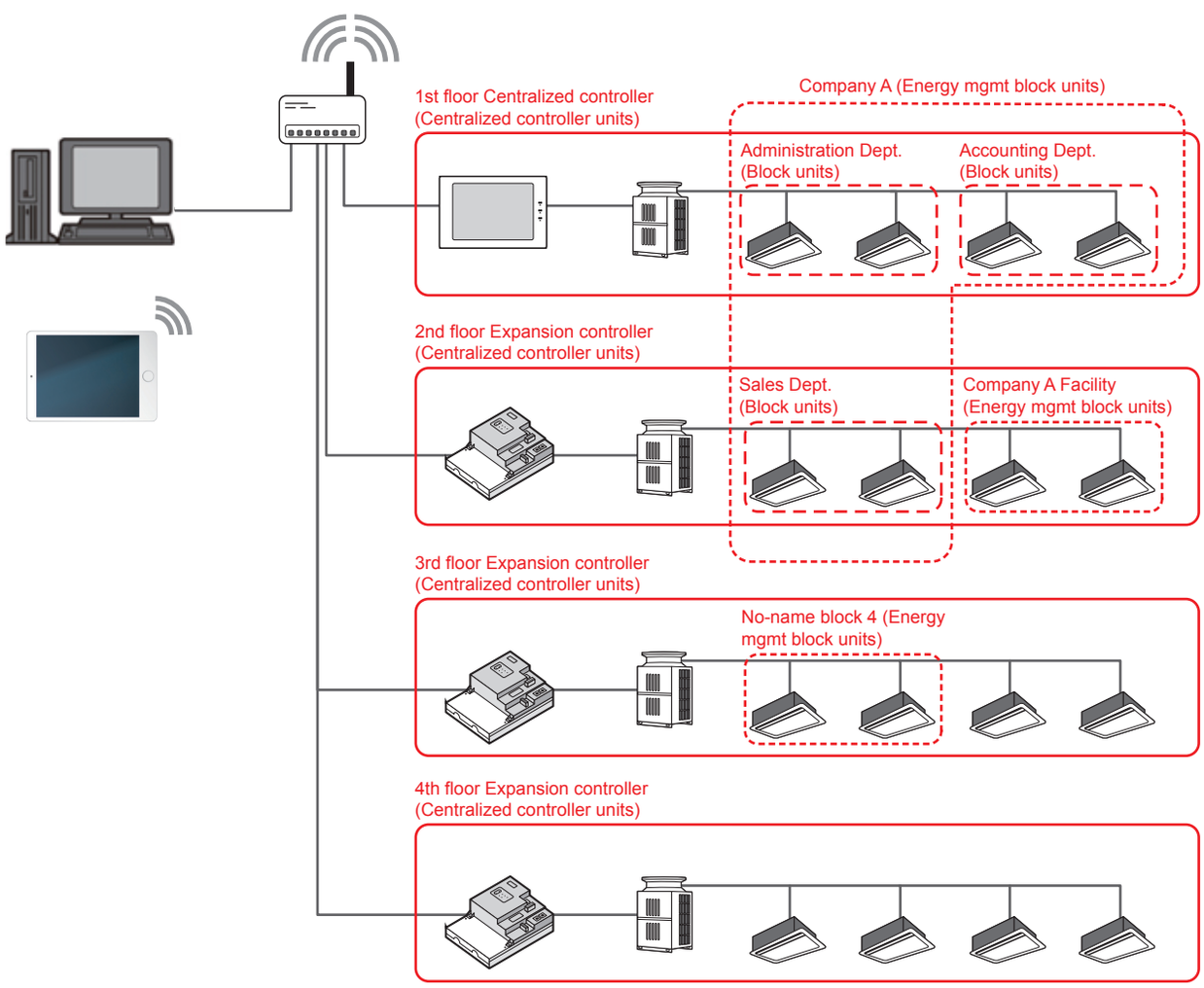
Note: In [Controller], it is possible to narrow down the unit groups for group display into “Centralized controller units,” “Block units,” and “Energy management block units.”

Note: For how to configure centralized controller name setting, block and energy management block settings, and name settings, refer to the Instruction Book (Initial Settings).

Note: The group name can be displayed using up to 10 double-byte, or 10 to 18 single-byte characters. The number of characters that can be displayed differs depending on character type. Name setting is carried out through initial settings. Refer to the Instruction Book (Initial Settings) for settings methods.



* Example of narrowing down the range in [Controller]



[4] HWHP (CAHV, CRHV) unit group

Click [Monitor/Operation] in the menu, and then click [HWHP] to display the operation status of HWHP (CAHV, CRHV) unit groups.

Note: [HWHP] will not appear if no HWHP (CAHV, CRHV) units have been registered to any group.

Note: Fan mode will appear only for CAHV units. Brine temperature will appear only for CRHV units.



Controller
Click to narrow down the HWHP unit groups to display.

Group name

Group icon

Operation mode

Set temperature

Select all
Click to select all displayed unit groups at once.

Deselect all
Click to cancel all selections at once.

Fan mode

Temperatures
Representative water temperature, outdoor temperature, brine temperature, inlet water temperature, and outlet water temperature are displayed.

The operation mode currently in use is displayed in “Operation mode”.

• HWHP (CAHV, CRHV) unit group

Heating	Heating ECO	Hot Water	Anti-freeze
			

[5] Measurement Status

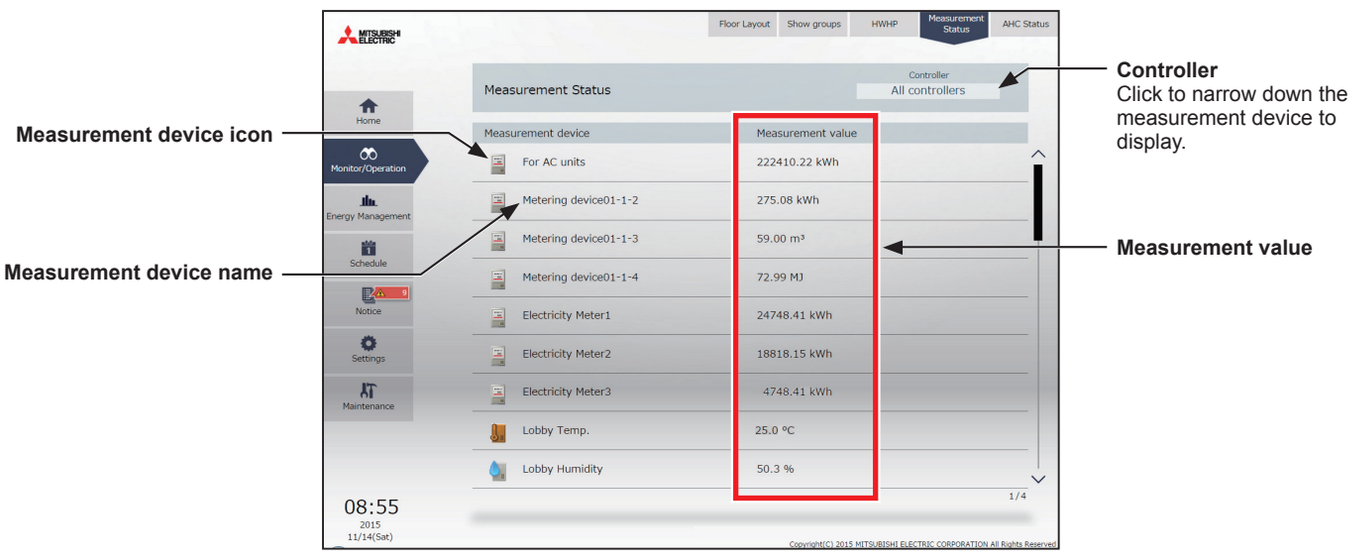
This section explains how to check the measurement data of the temperature sensors, humidity sensors, and metering devices.

Click [Monitor/Operation] in the menu, and then click [Measurement Status] to display the Measurement Status screen.

Note: An AI controller (PAC-YG63MCA), a commercially available temperature sensor, and a humidity sensor are required to measure the temperature and humidity.

Note: A PI controller (PAC-YG60MCA) and a commercially available pulse-output metering device is required to measure the electric, water, heat, and gas consumptions.

Note: A PI controller (PAC-YG60MCA) is not required when the built-in Pulse Input (PI) is used on the AE-200/AE-50/EW-50.



Item	Description
Controller	Narrows down the measurement devices to display on a centralized controller basis.
Measurement value	The current measurement values will appear. Note: The following icons are used to indicate the measuring devices. Icons will appear in orange when the measurement value reaches the upper or lower alarm threshold value that has been set in the initial settings. Refer to the Instruction Book (Initial Settings) for the settings methods.

	Normal	Upper/lower alarm threshold value is reached. (Orange)	Communication error/sensor error (Orange)
Temperature sensor			 *1
Humidity sensor			 *1
Metering device			 *2

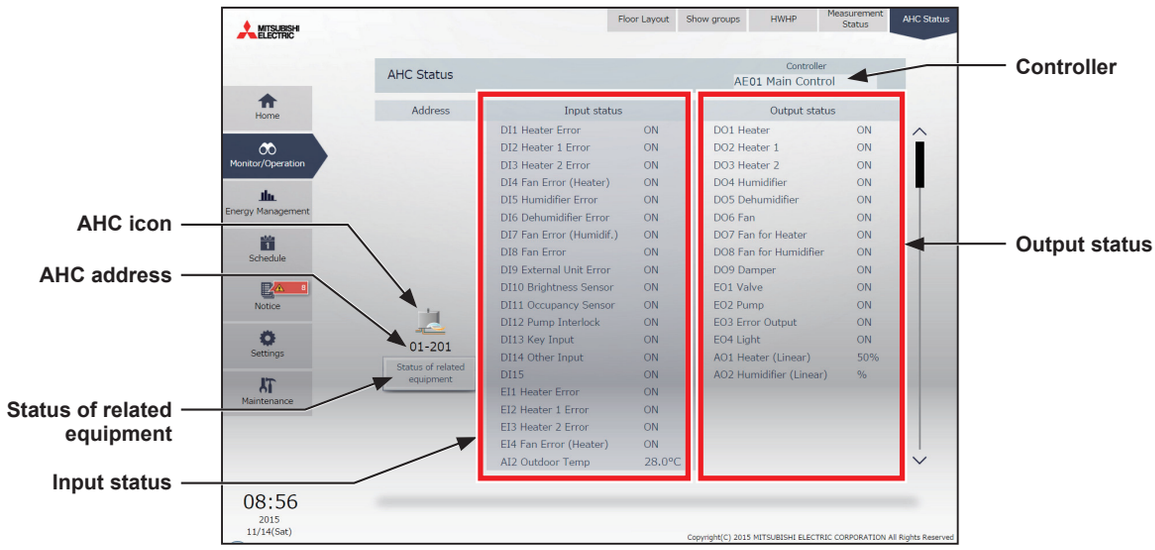
*1 When there is a communication error, the measurement value of the temperature or humidity sensor will be “--.”

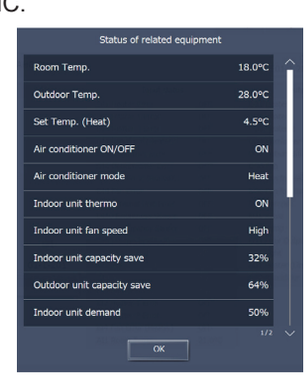
*2 When there is a communication error, the measurement value of the metering device will be the measured value immediately before the error detection.

[6] AHC Status

On the AHC Status screen, the status of input and output ports of each Advanced HVAC CONTROLLER (AHC) can be monitored.

Click [Monitor/Operation] in the menu, and then click [AHC Status] to display the AHC Status screen.



Item	Description
Controller	Narrows down the measurement devices to display on a centralized controller basis.
AHC icon	The following icons indicate the AHC status.  : Normal  : A communication error is occurring or an error signal has been input to the AHC.
AHC address	The address of the connected AHC will appear.
Input status	**[Input port code * + Input port name + Input status]** will appear. * DI1–DI15 (Digital input), EI1–EI4 (Extended digital input), AI1–AI8 (Analog input) Note: The status of the unused ports will not appear. Note: If a communication error occurs with AHC, no port information will appear.
Output status	**[Output port code * + Output port name + Output status]** will appear. * DO1–DO9 (Digital output), EO1–EO4 (Extended digital output), AO1–AO2 (Analog output) Note: The status of the unused ports will not appear. Note: If a communication error occurs with AHC, no port information will appear.
Status of related equipment	Click to display the status of the equipment that are used to control the equipments that are connected to the AHC. 

*1 The item will not appear if the number of units is “0.”

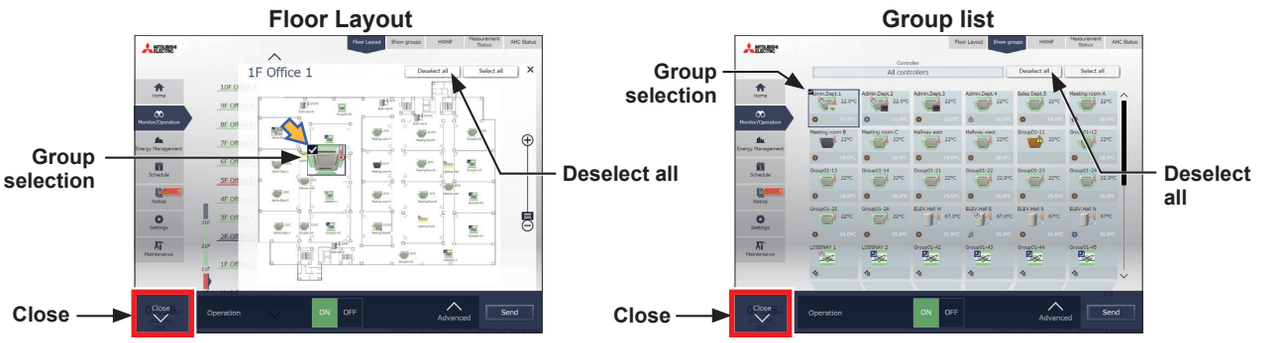
2-1-4. Selecting the icons of the groups to be operated

In the screens under the [Monitor/Operation] menu, select the icon(s) of the group(s) to be operated as explained below.

[1] Selecting group icons

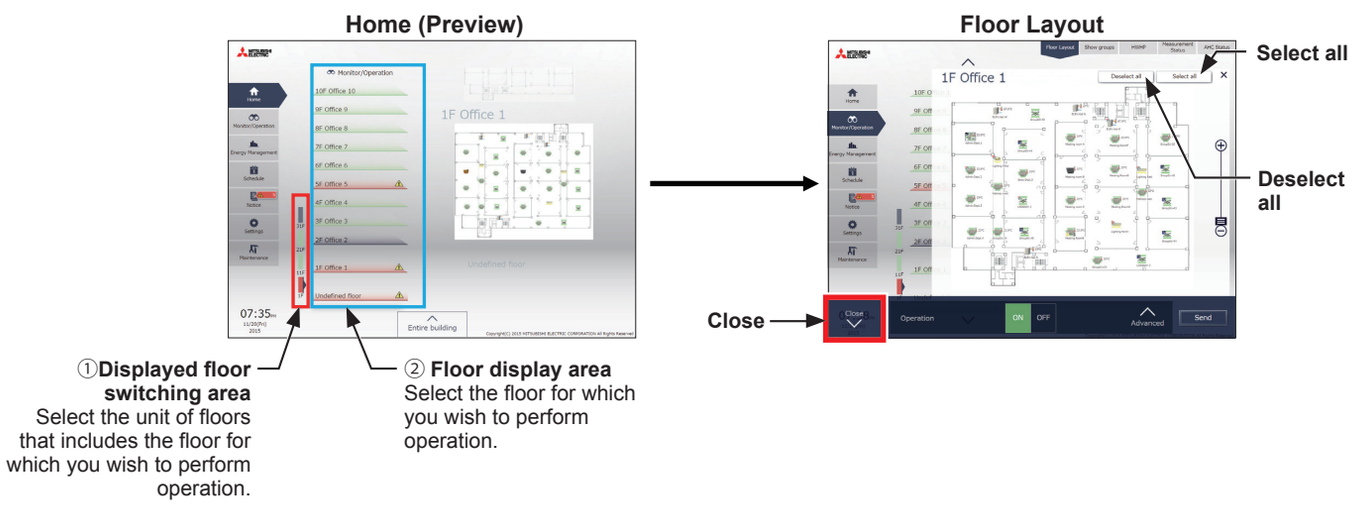
(1) Selecting unit group(s)

(1) In the Floor Layout screen or group list, click the icon(s) of the group(s) you want to operate.
The selected group icon(s) will appear with a checkmark and a dark blue frame.
Click again to deselect.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



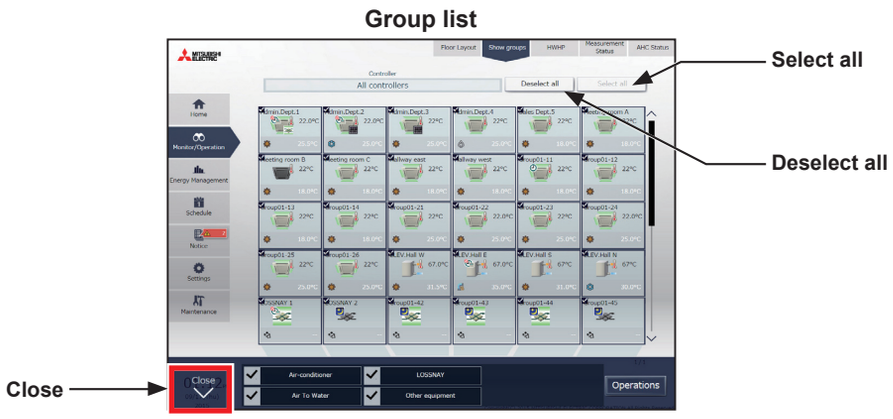
(2) Selecting all unit groups on the selected floor

(1) Select the floor for which you wish to perform operation by making a selection in “Displayed floor switching area” and then “Floor display area” on the Home (Preview) screen, and then click [Select all] on the [Floor Layout] screen.
All icon(s) on the selected floor will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



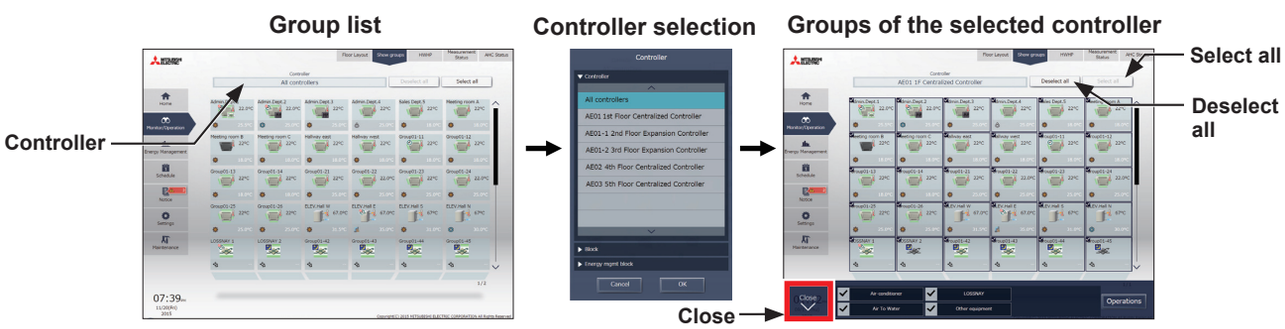
(3) Selecting all groups

(1) In the group list, click [Select all].
The all icon(s) will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



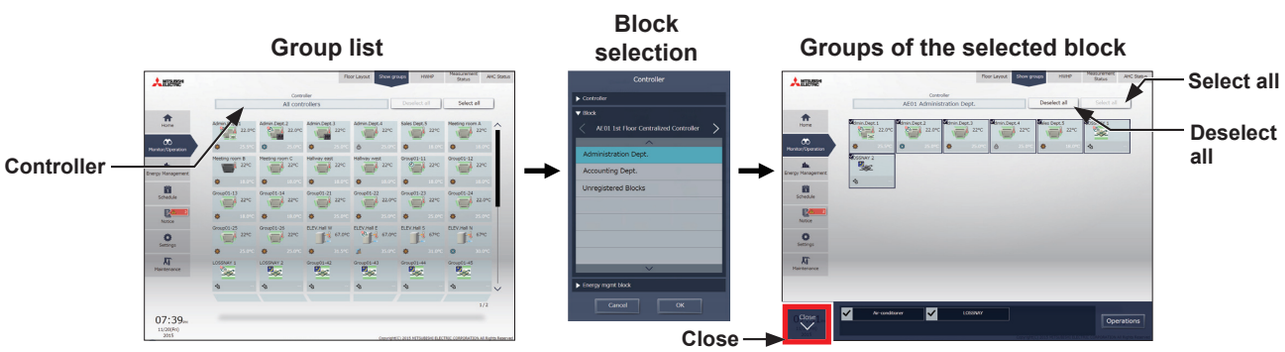
(4) Selecting all groups of a given centralized controller

(1) In the group list, click [Controller]. In the controller selection screen, select a centralized controller.
The unit groups that are under the control of the selected centralized controller will appear.
In the group list (centralized controller units), click [Select all]. All icons will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



(5) Selecting all groups in a given block

(1) In the group list, click [Controller]. In the block selection screen, select a block.
The unit groups that belong to the selected block will appear.
In the group list (block units), click [Select all]. All icons will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



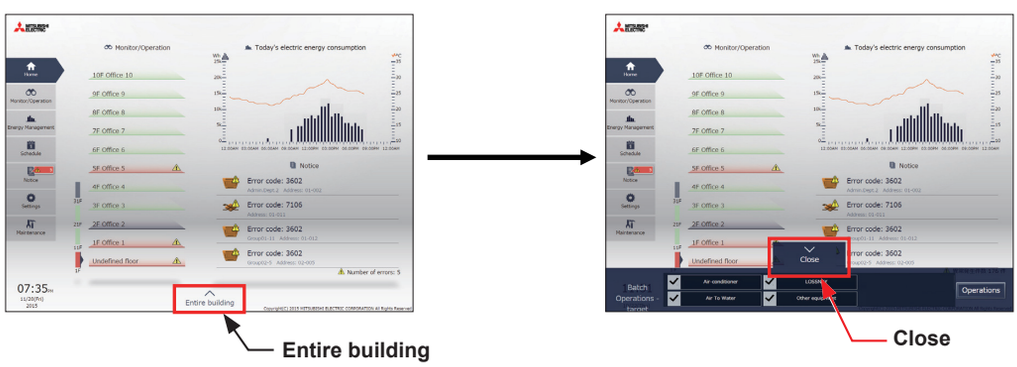
(6) Selecting all groups in a given energy management block

(1) In the group list, click [Controller]. In the block selection screen, select an energy management block.
The unit groups that belong to the selected energy management block will appear.
In the group list (energy management block units), click [Select all]. All icons will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



(7) Selecting all groups in the entire building

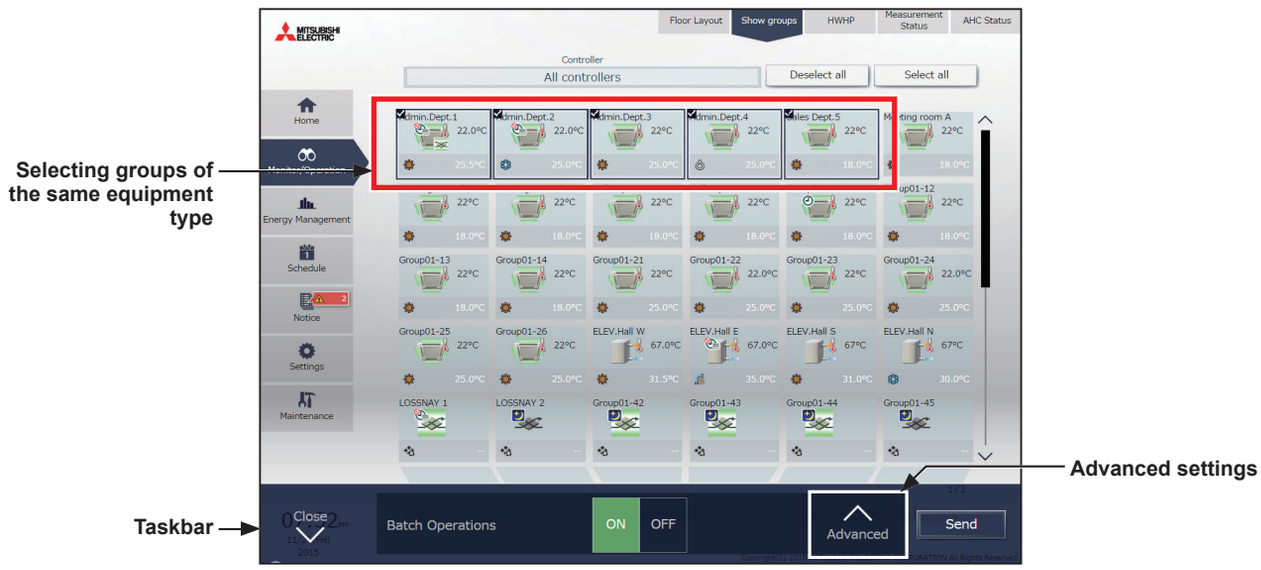
(1) In the Home screen, click [Entire building].
To cancel all group selections, click [Close] in the taskbar.



[2] Selecting equipment type

(1) When the equipment types of all selected groups are the same

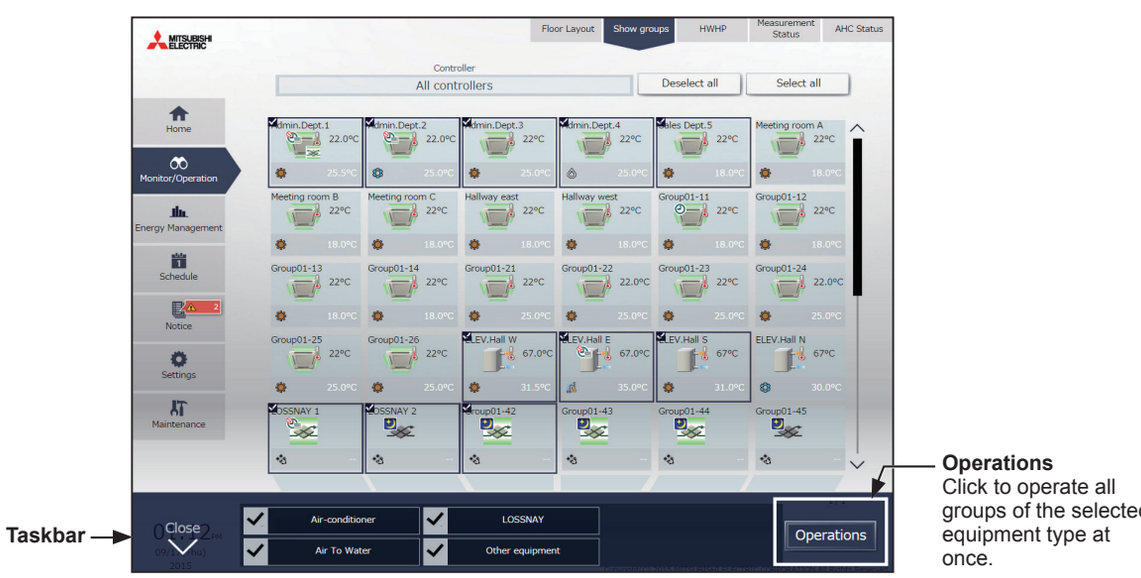
Selecting the group icons to operate and clicking [Advanced] in the taskbar will bring up the operation settings screen for the selected groups.
Refer to section 2-1-5 “Advanced settings” for details about the advanced settings.



Note: [ON] and [OFF] operations can be performed on the taskbar for the selected unit groups.

(2) When the equipment types of the selected groups are different

Selecting the group icons to operate will bring up the equipment type selection options in the taskbar.
Select an equipment type, and click [Operations] to display the operation settings screen.
Refer to section 2-1-5 “Advanced settings” for details about the advanced settings.



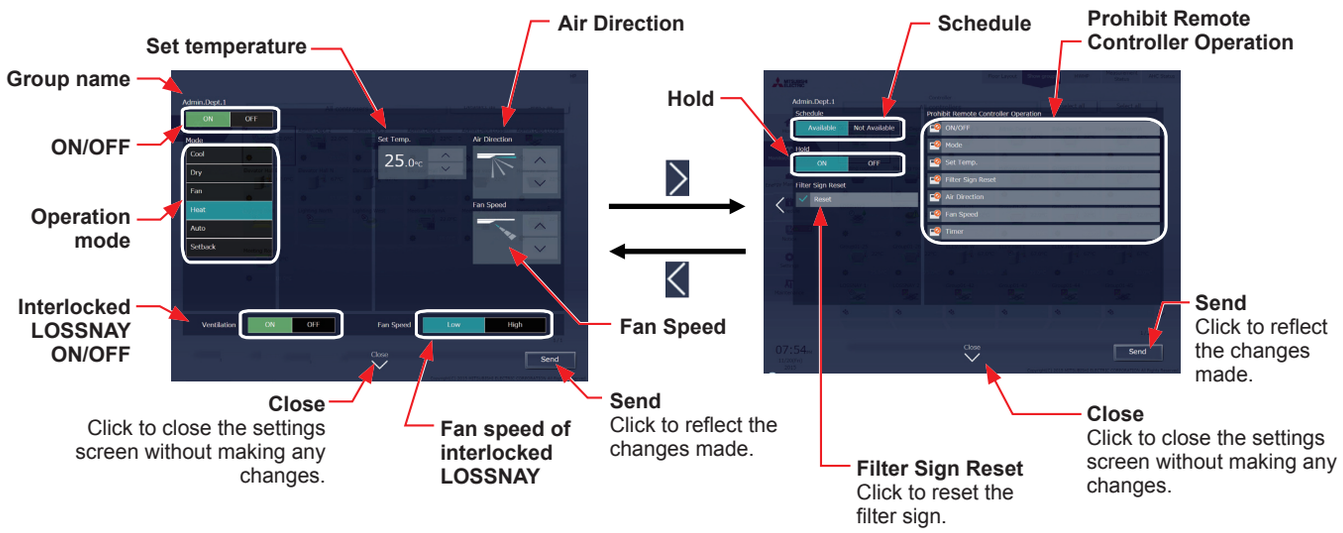
Note: When two or more equipment types are selected, only the [ON/OFF] and [Schedule] settings can be configured.
Note: [Other equipment] in the taskbar indicates general equipment.

2-1-5. Advanced settings

In the screens under [Monitor/Operation] menu, selecting the group icon(s) and clicking [Advanced] in the taskbar will bring up the operation settings screen for the selected group(s). The current operation status will appear. Change necessary operation settings, and then click [Send] to reflect the changes. Click [Close] to return to the previous screen without making any changes.

Note: When the setting is changed from other controllers, the operation status shown on the screen will not be updated while the screen is open.

[1] Air conditioning unit group

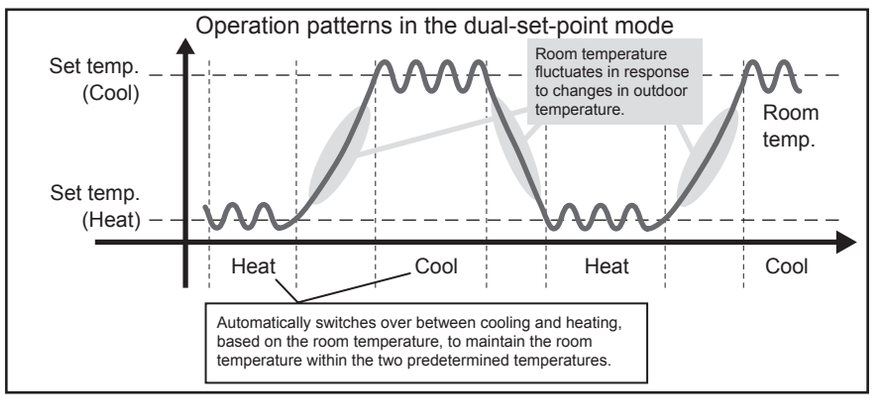


Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units.
Operation mode	Select an operation mode.	Click the desired operation mode. [Cool], [Dry], [Fan], [Heat], [Auto], [Setback] Note: When the operation mode signals from the cooling/heating switchover model of units are mixed (Cool and Heat), the operation mode will not change and the selected operation mode will blink. Note: The Setback mode can be selected on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Set temperature	Adjust the set temperature with the ∧ ∨ buttons.	Depending on settings values resulting from restrictions by device functions and set temperature range restriction functions, temperature settings ranges may be restricted. Note: For the same indoor unit, when changing operation mode and set temperature from multiple operation devices (system controllers, remote controllers), display of outside the allowable settings range may occur. Note: Depending on the unit model, setting in 0.5°C units and 1°C units is possible. Note: If the indoor unit supports the dual-set-point function in the Auto mode and when the operation mode above is set to Auto or Setback, two set temperatures for Cool mode and Heat mode can be set. For details about the dual-set-point function, refer to page 42. Note: When the indoor units that support the dual-set-point function and the indoor units that do not support the dual-set-point function exist in the same group, only one set temperature can be set in the Auto mode.
Air Direction	Adjust the air direction with the ∧ ∨ buttons.	
Fan Speed	Adjust the fan speed with the ∧ ∨ buttons.	

Item	Operation method	Description
Interlocked LOSSNAY ON/OFF	Select [ON] or [OFF].	Turns on or off the interlocked LOSSNAY units (ventilator).
Fan speed of interlocked LOSSNAY	Select [High] or [Low].	Switches the fan speed of the interlocked LOSSNAY units (ventilator).
Schedule	Select [Available] or [Not Available].	Enables/Disables the schedules. Note: When [Not Available] is set, the scheduled operations are disabled even if schedules are set. Note: The operations that have been scheduled on the remote controller will not be disabled.
Hold	Select [ON] or [OFF].	Enables/Disables the Hold function. When the Hold function is enabled, the scheduled operations are disabled. Note: The operations that have been scheduled on the remote controller will also be disabled. Note: [Hold type] can be specified in the [Advanced] screen in the initial settings. Refer to the Instruction Book (Initial Settings) for details. Note: The Hold function can be used on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Filter Sign Reset	Select [Reset] and click [Send].	Resets the filter sign. (The cumulative time will be reset.) When resetting, ensure the check mark is displayed as “ ”. Note: Reset the filter sign after cleaning the filter. Note: After the filter sign is reset, it takes up to an hour to clear the filter sign display on the local remote controllers.
Prohibit Remote Controller Operation	Click the operation item to switch the setting between “Prohibit” and “Permit”.	The following operations or setting change can be prohibited from the local remote controllers and when the Integrated Centralized Control Web is logged in with general user privileges: ON/OFF, Operation mode, Set temperature, Filter Sign Reset, Air Direction, Fan Speed, and Timer. : Permit : Prohibit Note: If “Timer” operation is prohibited, scheduled operations set on the local remote controller will be disabled.
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

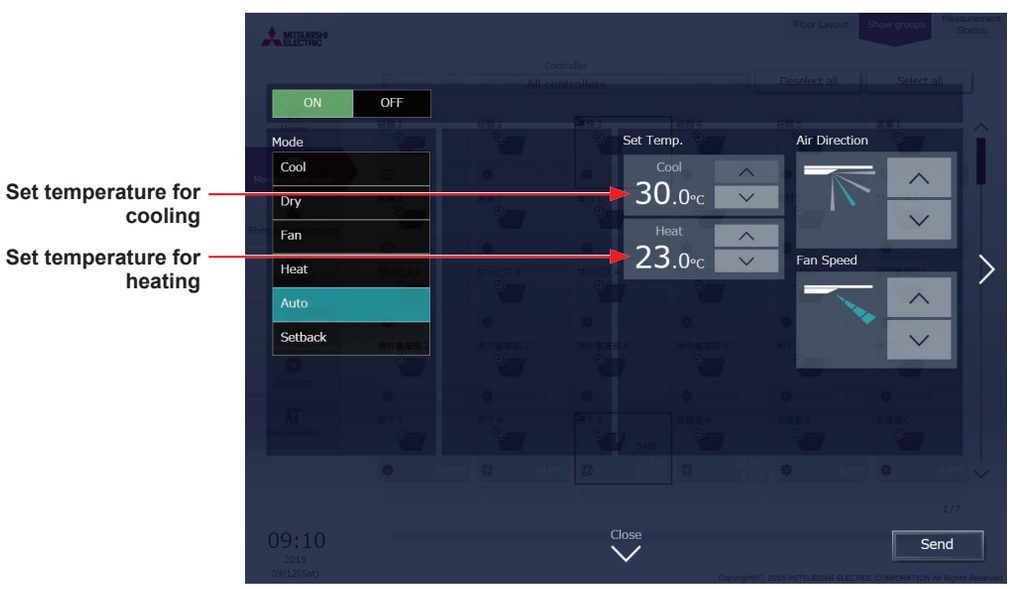
* After [Send] is clicked, it takes a while for the status of the LOSSNAY unit group icons to be updated.
* If a LOSSNAY unit is interlocked with the operation of indoor units in multiple groups, the LOSSNAY unit may be in operation, even when the LOSSNAY unit is displayed as “stopped”.

Note: When the indoor units support a dual-set-point function, two different set temperatures (one for cooling and the other for heating) can be set for the Auto mode. When this function is used, indoor units automatically switch over between cooling and heating, based on the room temperature, to maintain the room temperature within the two predetermined temperatures. The graph below shows an example of operation patterns of units operated in the dual-set-point mode.

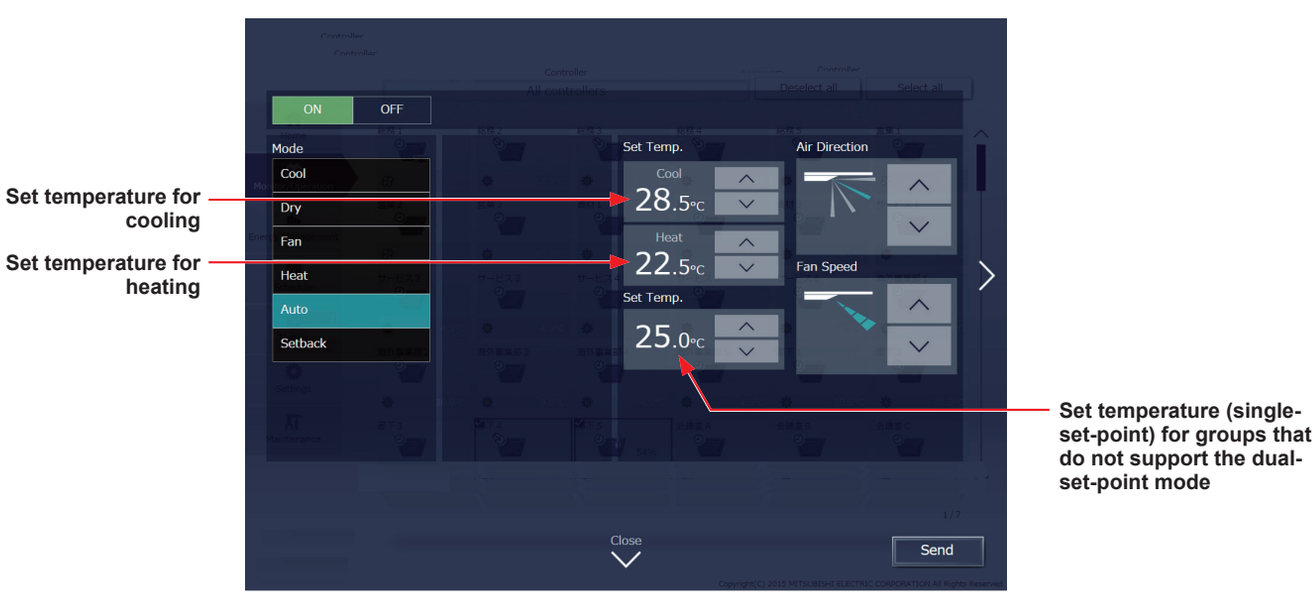


If the indoor units of the selected unit group support the dual-set-point function, two different set temperatures (one for cooling and the other for heating) can be set.

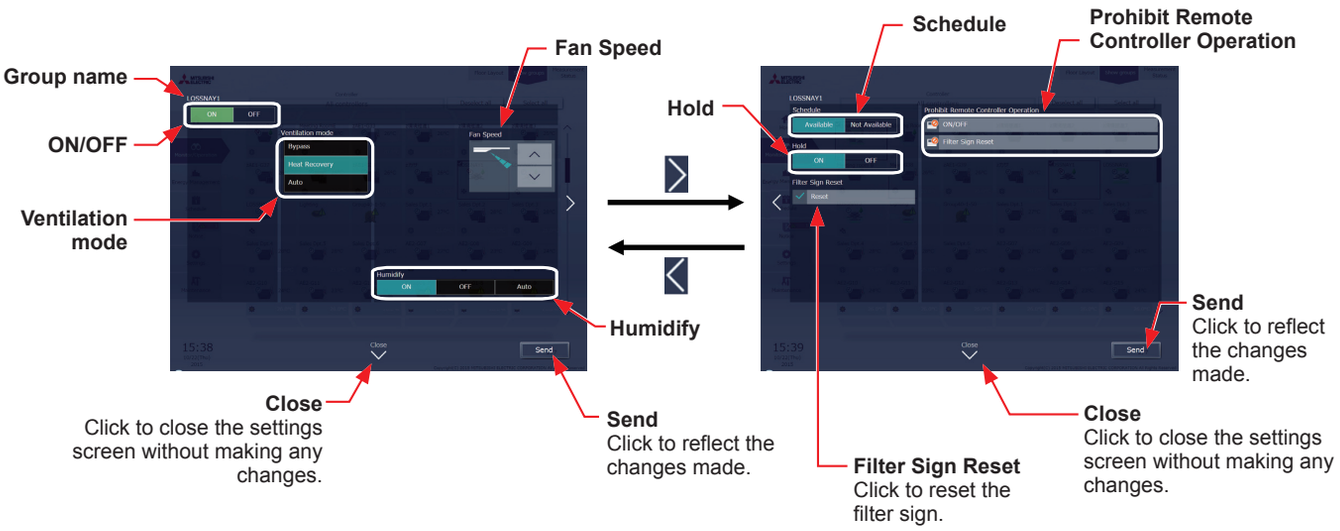
(1) Temperature setting for a group in which all indoor units support dual-set-point mode



(2) Temperature setting for when the groups that support the dual-set-point mode and the groups that do not are selected together

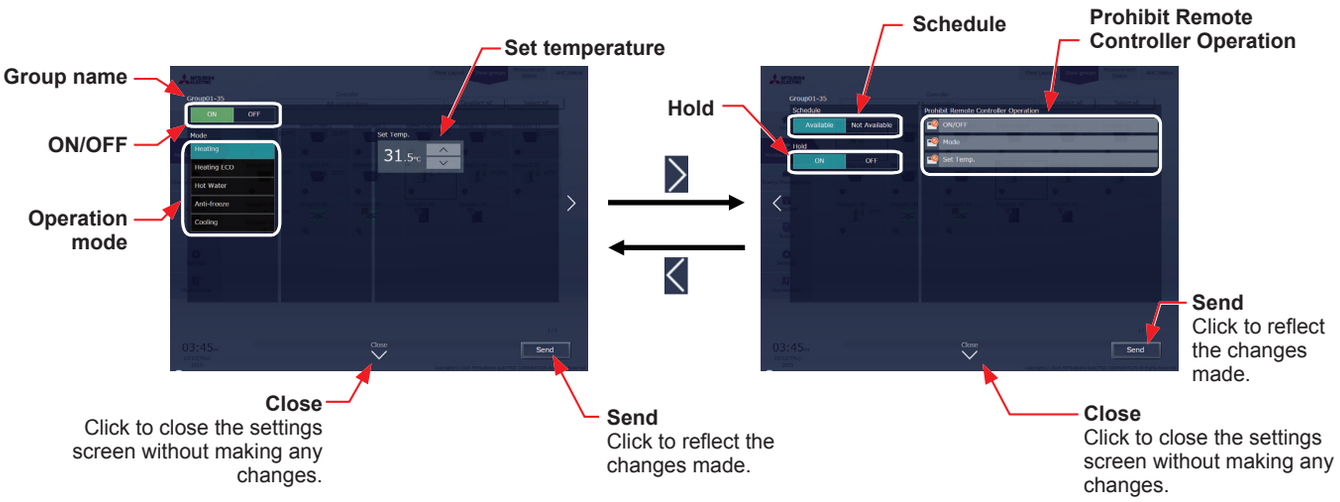


[2] LOSSNAY unit (ventilator) group



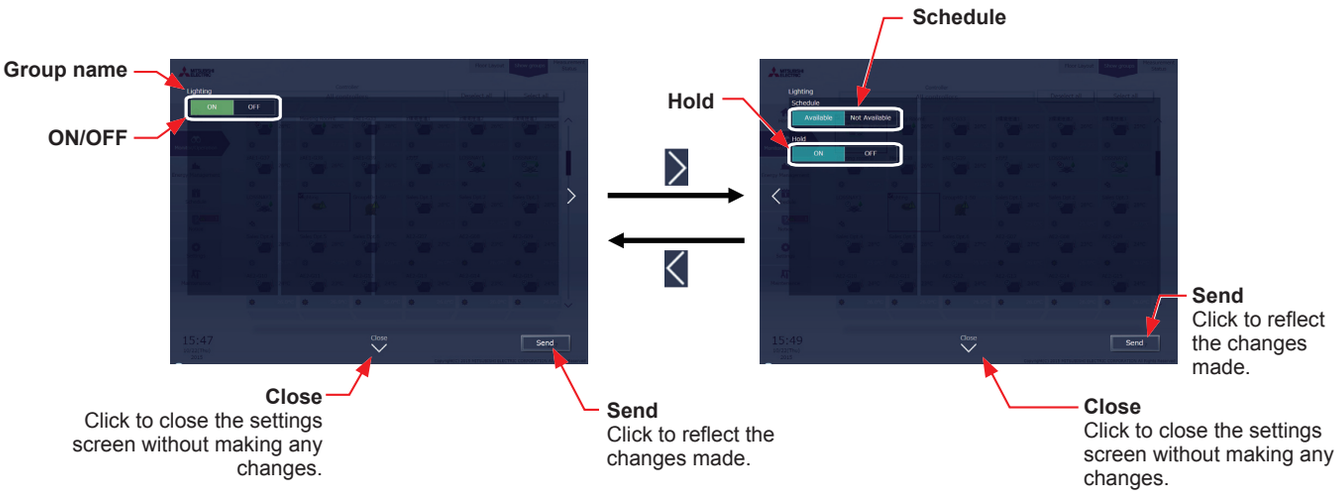
Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units. Note: If the units are turned off during the Night Purge operation, the Night Purge operation will not be performed until the next day.
Ventilation mode	Select a ventilation mode.	Click the desired ventilation mode. [Bypass], [Heat Recovery], [Auto] Note: This item will not appear during the Night Purge operation.
Fan Speed	Adjust the fan speed with the ∧ ∨ buttons.	 Note: During the Night Purge operation, the fan speed can be adjusted but  will not be displayed.
Humidify	Select [ON], [OFF], or [Auto].	Switches the operation status of the humidification function. Note: This item will not appear during the Night Purge operation.
Schedule	Select [Available] or [Not Available].	Enables/Disables the schedules. Note: When [Not Available] is set, the scheduled operations are disabled even if schedules are set.
Hold	Select [ON] or [OFF].	Enables/Disables the Hold function. When the Hold function is enabled, the scheduled operations are disabled. Note: The operations that have been scheduled on the remote controller will also be disabled. Note: [Hold type] can be specified in the [Advanced] screen in the initial settings. Refer to the Instruction Book (Initial Settings) for details. Note: The Hold function can be used on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Filter Sign Reset	Select [Reset] and click [Send].	Resets the filter sign. (The cumulative time will be reset.) When resetting, ensure the check mark is displayed as “  ”. Note: Reset the filter sign after cleaning the filter. Note: After the filter sign is reset, it takes up to an hour to clear the filter sign display on the local remote controllers.
Prohibit Remote Controller Operation	Click the operation item to switch the setting between “Prohibit” and “Permit”.	The following operations or setting change can be prohibited from the local remote controllers and when the Integrated Centralized Control Web is logged in with general user privileges: ON/OFF and Filter Sign Reset.  : Permit  : Prohibit
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

[3] Air To Water (PWFY) unit group



Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units.
Operation mode	Select an operation mode.	Click the desired operation mode. [Heating], [Heating ECO], [Hot Water], [Anti-freeze], [Cooling]
Set temperature	Adjust the set temperature with the ∧ ∨ buttons.	The settable temperature ranges depend on the operation mode and the unit model.
Schedule	Select [Available] or [Not Available].	Enables/Disables the schedules. Note: When [Not Available] is set, the scheduled operations are disabled even if schedules are set.
Hold	Select [ON] or [OFF].	Enables/Disables the Hold function. When the Hold function is enabled, the scheduled operations are disabled. Note: The operations that have been scheduled on the remote controller will also be disabled. Note: [Hold type] can be specified in the [Advanced] screen in the initial settings. Refer to the Instruction Book (Initial Settings) for details. Note: The Hold function can be used on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Prohibit Remote Controller Operation	Click the operation item to switch the setting between “Prohibit” and “Permit”.	The following operations or setting change can be prohibited from the local remote controllers and when the Integrated Centralized Control Web is logged in with general user privileges: ON/OFF, Operation mode, and Set temperature. : Permit : Prohibit
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

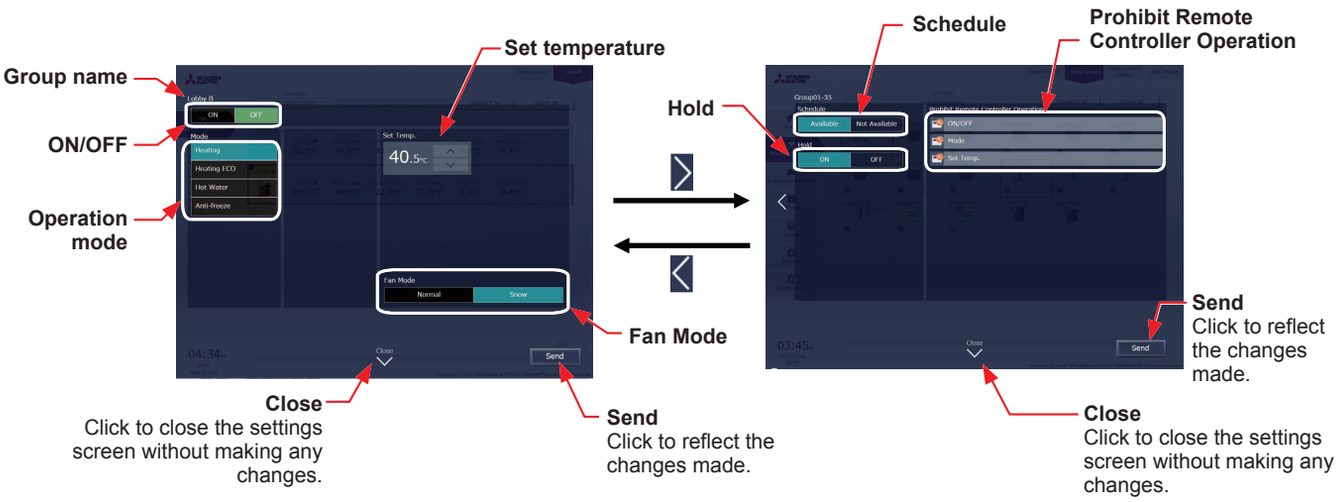
[4] Other equipment group



Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units.
Schedule	Select [Available] or [Not Available].	Enables/Disables the schedules. Note: When [Not Available] is set, the scheduled operations are disabled even if schedules are set.
Hold	Select [ON] or [OFF].	Enables/Disables the Hold function. When the Hold function is enabled, the scheduled operations are disabled. Note: The operations that have been scheduled on the remote controller will also be disabled. Note: [Hold type] can be specified in the [Advanced] screen in the initial settings. Refer to the Instruction Book (Initial Settings) for details. Note: The Hold function can be used on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

Note: General equipment whose prohibition setting is enabled (“Allow operations” is set to [No operations] on the group settings screen in the initial settings) cannot be operated and an operation prohibition mark is displayed. Refer to the Instruction Book (Initial Settings) for settings methods.

[5] HWHP (CAHV, CRHV) unit group



Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units.
Operation mode	Select an operation mode.	Click the desired operation mode. [Heating], [Heating ECO], [Hot Water], [Anti-freeze]
Set temperature	Adjust the set temperature with the ∧ ∨ buttons.	The settable temperature ranges depend on the operation mode and the unit model.
Schedule	Select [Available] or [Not Available].	Enables/Disables the schedules. Note:When [Not Available] is set, the scheduled operations are disabled even if schedules are set.
Hold	Select [ON] or [OFF].	Enables/Disables the Hold function. When the Hold function is enabled, the scheduled operations are disabled. Note: The operations that have been scheduled on the remote controller will also be disabled. Note: [Hold type] can be specified in the [Advanced] screen in the initial settings. Refer to the Instruction Book (Initial Settings) for details. Note: The Hold function can be used on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Fan Mode	Select [Normal] or [Snow].	This item will appear only on the operation settings screen for HWHP (CAHV) unit groups. The fan can be set to keep rotating even while the unit is stopped to avoid snow accumulation on the fan guard during the winter. Select [Normal] to stop the fan while the unit is stopped. Select [Snow] to operate the fan even while the unit is stopped. Note: The fan mode for CRHV units cannot be operated.
Prohibit Remote Controller Operation	Click the operation item to switch the setting between “Prohibit” and “Permit”.	The following operations or setting change can be prohibited from the local remote controllers and when the Integrated Centralized Control Web is logged in with general user privileges: ON/OFF, Operation mode, and Set temperature. : Permit : Prohibit
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

2-2. Energy management

The energy-control-related status, such as electric energy consumption, operation time, and outdoor temperature, can be displayed in a graph. Also, preset target value of the electric energy consumption can be checked.

Note: Energy use status data and ranking data can be output in a CSV format.

Note: Output to CSV is only possible on a PC. Output from tablet (Android, iOS tablet) is not possible and the [Download] button is not displayed.

Note: File names, as well as date formats, delimiter characters, and temperature units (°C, °F) within the files output as CSV will use formats set as initial settings. Refer to the Instruction Book (Initial Settings) for settings methods.

Note: For the file name and AE No. within the files output as CSV, refer to 4 “Name Display” in Chapter 1.

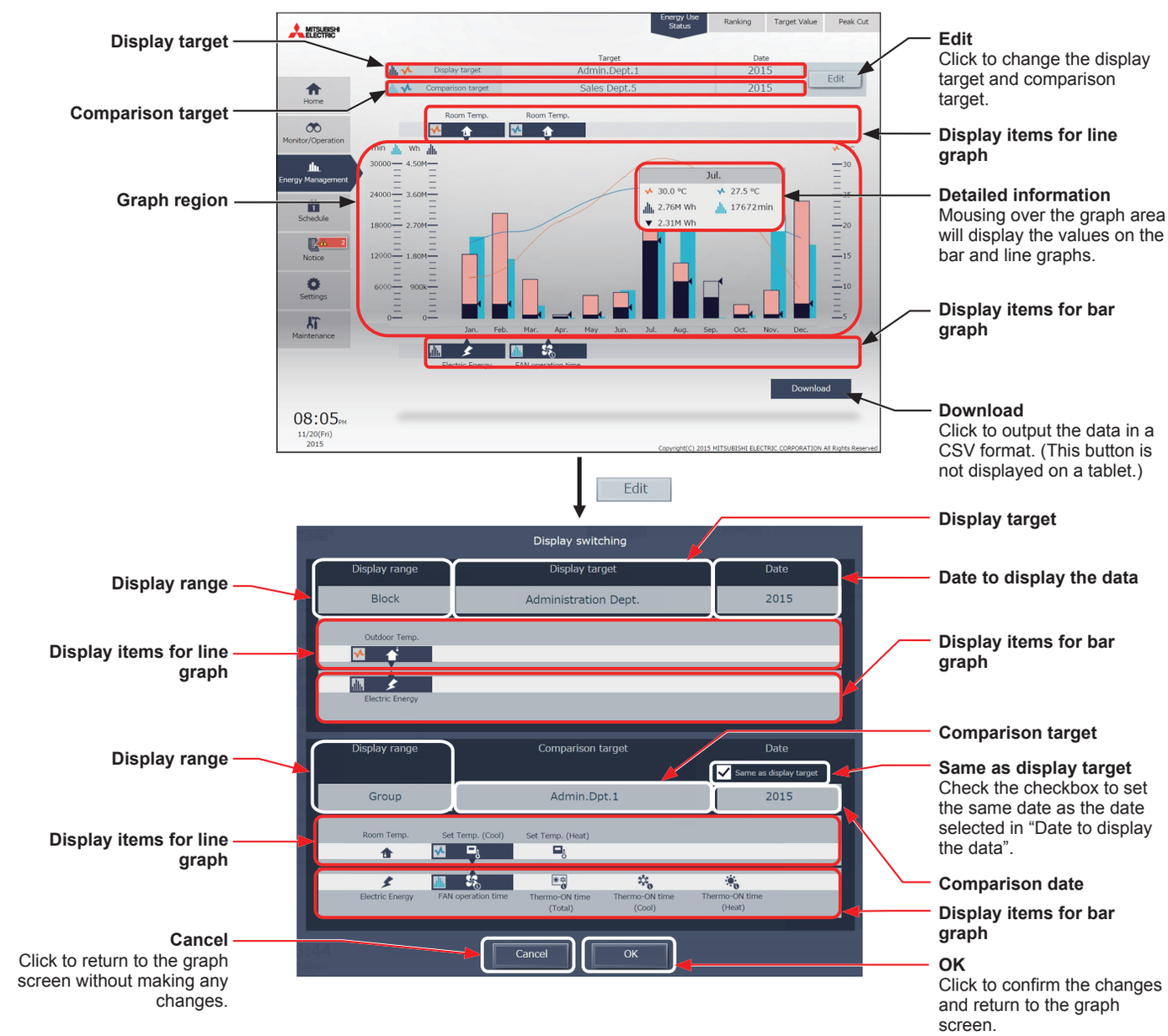
Important

- Energy management settings and measurement settings are required beforehand to display a graph. Refer to the Instruction Book (Initial Settings) for settings methods.

2-2-1. Energy Use Status

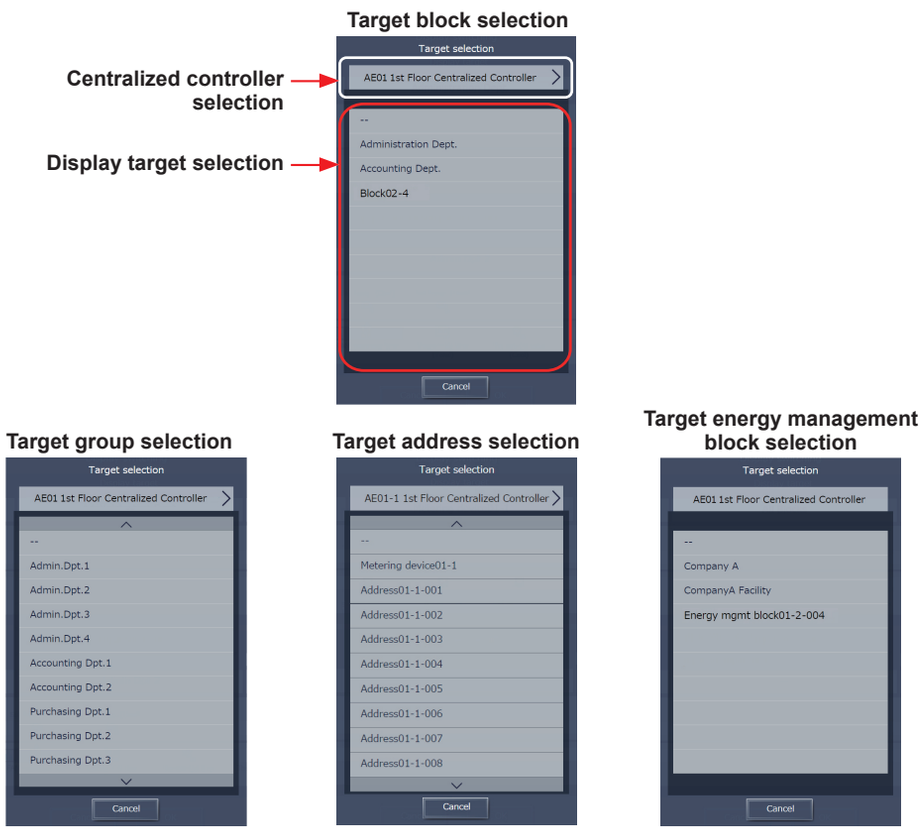
On the Energy Use Status screen, the energy-control-related status, such as electric energy consumption, operation time, and outdoor temperature, can be displayed in a graph. Operators can check the detailed status of given indoor units by specifying the date to display the data per unit address, group, block, or energy management block.
Also, the status of other indoor units can be displayed at the same time for comparison.
Displaying energy-control-related status of each hour, day, and month in a graph visualizes the energy-saving status.
Click [Energy Management] in the menu, and then click [Energy Use Status] to access the Energy Use Status screen.

(1) Click [Edit] to set the display items.

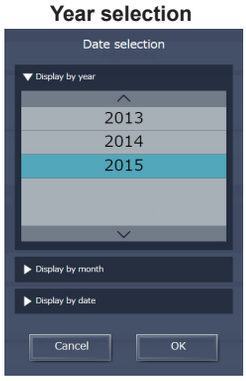


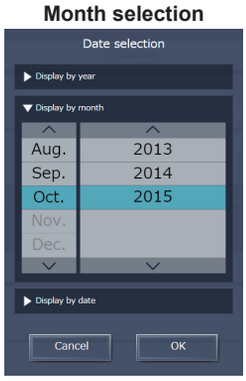
<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Display range</td><td>Select [Block], [Group], [Address], or [Energy management block] to display its data.</td></tr>
<tr><td>Display target</td><td>
Select a centralized controller, and then select a block, group, address, or energy management block to display its data.

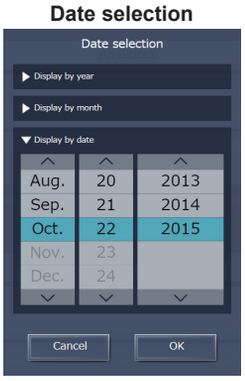
Out of the units that are under the control of the centralized controller selected in [Centralized controller selection], only the blocks and energy management blocks to which the unit groups managed by tenant managers belong are displayed.



Note: When the display range is [Address], unit addresses are displayed. Names cannot be registered.
Note: When the name has not been registered, the display varies with the display range setting as follows.
<table>
<tr><th>Display range</th><th>Name display</th></tr>
<tr><td>Block</td><td>“Block” + AE No. *1 + Block number</td></tr>
<tr><td>Group</td><td>“Group” + AE No. *1 + Group number</td></tr>
<tr><td>Energy management block</td><td>“Energy mgmt block” + AE No. *1 + Energy management block number</td></tr>
</table>
*1 For AE No., refer to 4 “Name Display” in Chapter 1.
Note: Blocks and groups of DIDO controllers (PAC-YG66DCA) are not displayed.
Note: To display input values of a built-in Pulse Input (PI), select the first option [Metering device] in the target address selection screen.
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Date to display the data</td><td>Click [Date] to specify a date to display the data. The date can be specified as daily, monthly, or yearly.
Year selection
 

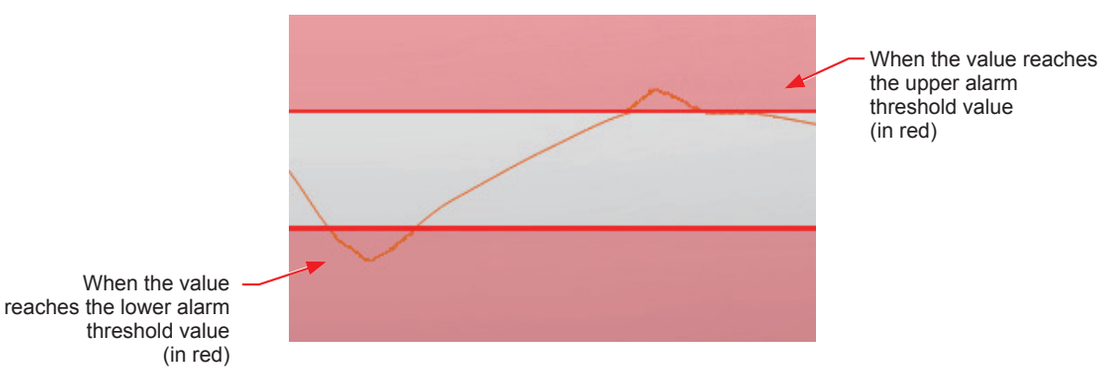
Month selection
 

Date selection
 

Note: The storage period of the energy use status data is as follows.
<table>
<tr><th>Date selection</th><th>Data storage period</th></tr>
<tr><td>Year</td><td>The current year and the last 24 months</td></tr>
<tr><td>Month</td><td>The current month and the last 24 months</td></tr>
<tr><td>Date</td><td>The current day and the last 24 months</td></tr>
</table></td></tr>
<tr><td>Comparison target</td><td>Select a block name, group name, address number, or energy management block name to display the comparison data. (The comparison target selection screen is the same as the display target selection screen.)</td></tr>
<tr><td>Comparison date</td><td>Specify a date to display the comparison data. (The comparison date selection screen is the same as the display target date selection screen.)</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Display items for bar graph</td><td>
Select an item to display its data in the bar graph.
Select a display range from [Block], [Group], [Address], or [Energy management block] to display its data. The selectable items vary, depending on the display range. Only the items that can be displayed in the graph appear. Refer to the table below for details.

 Display items for bar graph
■ Indoor unit
<table>
<tr><th>Display range</th><th>Display item</th></tr>
<tr><td>Address*7
Group*7
Block*7
Energy management block*7</td><td>*1 *2 Electric Energy
*3 *4 FAN operation time
*3 Thermo-ON time (Total)
*3 Thermo-ON time (Cool)
*3 Thermo-ON time (Heat)</td></tr>
</table>
■ PI controller*5 *8/Built-in Pulse Input (PI)*6 *8
<table>
<tr><th>Display range</th><th>Display item</th></tr>
<tr><td>Address</td><td>For AC units
01-1 Electric Energy:2
01-1 Water quantity:3
01-1 Thermal quantity:4</td></tr>
</table>
*1 The electric energy (kWh) consumed by indoor units will appear in the graph. The values are apportioned based on the setting for “Indoor unit operation apportioning mode”. Refer to the Instruction Book (Initial Settings) for the “Indoor unit operation apportioning mode” setting.
*2 A small amount of electric energy consumption (kWh) may appear in the graph even when no indoor units have been operated. This is because the standby electric energy is apportioned, which is normal.
*3 The indoor unit’s cumulative operation time (minute) for the selected item will appear in the graph.
• “FAN operation time” is the cumulative duration of time in which the indoor unit is ON.
• “Thermo-ON time (Total/Cool/Heat)” is the cumulative duration of time in which the refrigerant is flowing into the indoor unit. (Cool: when the Cool mode is selected; Heat: when the Heat mode is selected; Total: when either mode is selected)
*4 Only “FAN operation time” is displayed for LOSSNAY units.
*5 Displays display item buttons for the name of the metering device connected to the PI controller. Names are those as set on the Measurement screen. If the name is not registered, then if the metering device units are kWh, this will display “Electric energy 1”–“Electric energy 4”, if the units are m^3 “Water quantity 1”–“Water quantity 4”, and if the units are MJ “Heat quantity 1”–“Heat quantity 4”. If there are no metering device units “-”, then this will not be displayed. For how to register the names, refer to the Instruction Book (Initial Settings).
*6 If using a Pulse Input (PI), the display item buttons for the name of the metering device connected to the AE-200/AE-50/EW-50 CN7 will be displayed.
*7 “Energy Management License Pack” is required. (AE-200E/AE-50E/EW-50E only)
*8 If “Energy Management License Pack” has not been registered, only [Day] is available for selection as a Date range. To select [Month] or [Year], “Energy Management License Pack” is required.
</td></tr>
</table>

Item	Description
Display items for line graph	Select an item to display its data in the line graph. Note: When the display range is [Block] or [Energy Management Block], display items for line graph are not displayed.  Display items for line graph ■ Indoor unit ■ AI controller *3 ■ AHC *1 When [Day] is selected as a date, the temperature values obtained every hour and half hour will appear. When [Month] is selected, the average daily temperature values will appear. When [Year] is selected, the average monthly temperature values will appear. *2 [Outdoor Temp.] will appear only when the temperature sensor to measure the outdoor temperature is set in the Energy Management settings for the login destination centralized controller. Refer to the Instruction Book (Initial Settings) for settings methods. *3 Displays display item buttons for the name of the sensor connected to the AI controller (PAC-YG63MCA). Names can be registered in the initial settings. Refer to the Instruction Book (Initial Settings) for how to register sensor names. *4 “Energy Management License Pack” is required. (AE-200E/AE-50E/EW-50E only) *5 If “Energy Management License Pack” has not been registered, only [Day] is available for selection as a Date range. To select [Month] or [Year], “Energy Management License Pack” is required. Note: The background of the graph will appear in red when the temperature and humidity data of the AI controller (PAC-YG63MCA) are displayed and when the measurement value reaches the upper or lower alarm threshold value that has been set in the initial settings. The background will stay in red even when the measurement value becomes between the upper and lower threshold values. Refer to the Instruction Book (Initial Settings) for how to configure upper and lower alarm threshold values. 

Indoor unit

Display range	Display item			
Address Group Block Energy management block	*1 *2 *3 Outdoor Temp.	*1 *5 Room Temp.	*1 *5 Set Temp. (Cool)	*1 *5 Set Temp. (Heat)

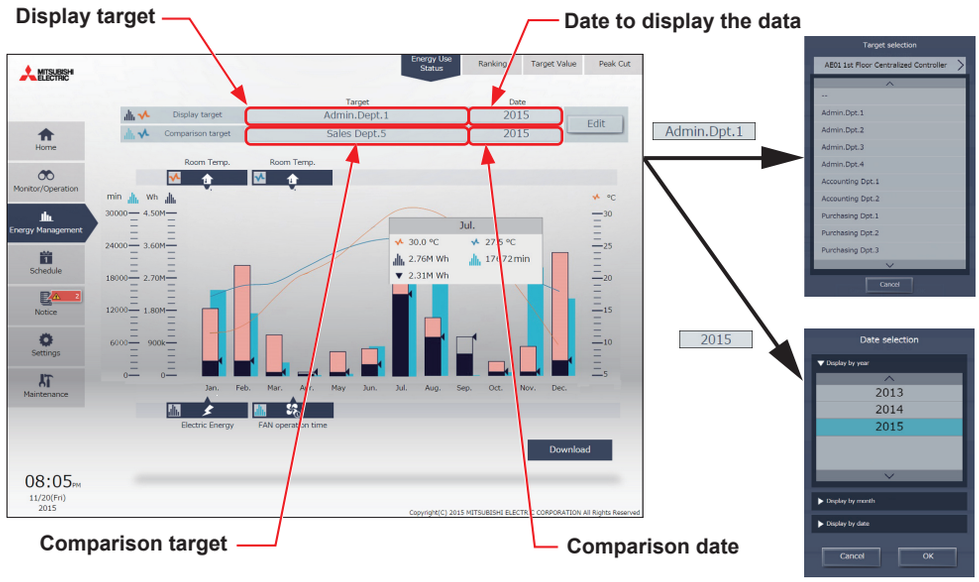
AI controller *3

Display range	Display item		
Address *5	*1 *2 *3 Outdoor Temp.	01-1-20 Temperature1	OutdoorTemp1

AHC

Display range	Display item		
Address *4	*1 *2 *3 Outdoor Temp.	OutdoorTemp1	01-1-201 Temperature2

Note: By quickly switching to items displayed on a graph and dates, it is possible to confirm the energy usage status.



(1) To switch the display target

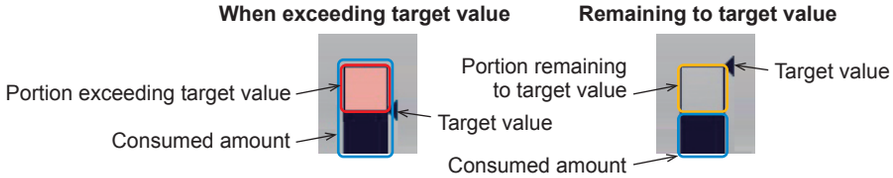
Click [Display target] or [Comparison target] to display the target selection screen, and switch to the items to display on a graph.

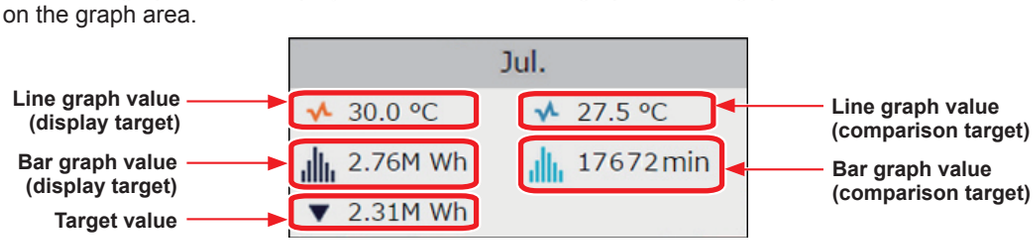
It is not possible to switch to [Display target] and [Comparison target] that have a display range different from before switching.

(2) To switch the date

Click [Date to display the data] or [Comparison date] to display the date selection screen, and switch to the dates to display on a graph. Ensure that the [Date to display the data] and the [Comparison date] units are the same.

(2) Click [OK] to return to the previous screen.
The display target data and the comparison target data will appear in a bar graph and a line graph.

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Graph region</td><td>
■ Bar graph/line graph
<table>
<tr><th></th><th>Display target</th><th>Comparison target</th><th>Target value *1</th></tr>
<tr><td>Bar graph</td><td>(Blue)</td><td>(Light blue)</td><td></td></tr>
<tr><td>Line graph</td><td>(Orange)</td><td>(Blue)</td><td></td></tr>
</table>
*1 The target values will appear in the graph when “Block” or “Energy management block” is selected as a display range and when [Electric Energy] is selected as a display item for bar graph.
Note: The data for a certain period of time may not appear if it does not exist due to the changes of the daylight saving time setting or current time setting.
If the data overlap for a certain period of time due to the time overlap that was occurred when daylight saving ended or the current time setting was changed, the newer data will appear in the graph.
Note: When the date is specified as daily, the graph is shown in 30-minute increments.
Note: When the target value is set, areas exceeding the target value will be displayed in pink.
When exceeding target value Remaining to target value


■ Detailed information
Mouse over the graph area to display the values on the bar graph and line graph for the dates moused over on the graph area.


</td></tr>
</table>

(3) To output the displayed measurement data in a CSV format, click [Download].
The file name and file format will vary as shown below, depending on the selected date range.

Note: This function cannot be used on a tablet.

Item	Description
File name	<When any item in the “Comparison target” field is selected> Date range: Year EM_AnnualTrend_[yyyy]_[Display target]_[Bar graph type]_[Line graph type]_[YYYY]_[Comparison target]_[Bar graph type]_[Line graph type].csv Date range: Month EM_MonthlyTrend_[yyyy]-[mm]_[Display target]_[Bar graph type]_[Line graph type]_[YYYY]-[MM]_[Comparison target]_[Bar graph type]_[Line graph type].csv Date range: Day EM_DailyTrend_[yyyy]-[mm]-[dd]_[Display target]_[Bar graph type]_[Line graph type]_[YYYY]-[MM]-[DD]_[Comparison target]_[Bar graph type]_[Line graph type].csv <When no item in the “Comparison target” field is selected> Date range: Year EM_AnnualTrend_[yyyy]_[Display target]_[Bar graph type]_[Line graph type].csv Date range: Month EM_MonthlyTrend_[yyyy]-[mm]_[Display target]_[Bar graph type]_[Line graph type].csv Date range: Day EM_DailyTrend_[yyyy]-[mm]-[dd]_[Display target]_[Bar graph type]_[Line graph type].csv

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>File name</td><td>
<table>
<tr><th>File-name contents</th><th colspan="2">Format</th></tr>
<tr><td>[yyyy]</td><td colspan="2">The year specified in the “Date to display the data” field</td></tr>
<tr><td>[mm]</td><td colspan="2">The month specified in the “Date to display the data” field</td></tr>
<tr><td>[dd]</td><td colspan="2">The date specified in the “Date to display the data” field</td></tr>
<tr><td rowspan="4">[Display target] *1</td><td>Address</td><td><Indoor unit>
AE No. + “_” + “A” + M-NET address (001–050) + “_” + “00”
<PI controller>
AE No. + “_” + “A” + M-NET address (001–050) + “_” + Metering device No. (01–04)
<Built-in Pulse Input (PI)>
AE No. + “_” + “A” + “_” + Channel No. (01–04)
<AI controller or AHC>
AE No. + “_” + “A” + M-NET address (001–050, 201–250) + “_” + Sensor No. (01–02)</td></tr>
<tr><td>Group</td><td>AE No. + “_” + “G” + Group No. (001–050) + “_” + “00”</td></tr>
<tr><td>Block</td><td>AE No. + “_” + “B” + Block No. (001–050, 999 *2) + “_” + “00”</td></tr>
<tr><td>Energy management block</td><td>AE No. + “_” + “E” + Energy management block No. (001–200) + “_” + “00”</td></tr>
<tr><td rowspan="10">[Bar graph type]</td><td colspan="2">B01: Indoor unit electric energy</td></tr>
<tr><td colspan="2">B02: Fan operation time</td></tr>
<tr><td colspan="2">B03: Thermo-ON time (Total)</td></tr>
<tr><td colspan="2">B04: Thermo-ON time (Cool)</td></tr>
<tr><td colspan="2">B05: Thermo-ON time (Heat)</td></tr>
<tr><td colspan="2">B06: PI controller/Built-in Pulse Input (PI) electric energy</td></tr>
<tr><td colspan="2">B08: PI controller/Built-in Pulse Input (PI) water quantity</td></tr>
<tr><td colspan="2">B09: PI controller/Built-in Pulse Input (PI) heat quantity</td></tr>
<tr><td colspan="2">B00: No selection</td></tr>
<tr><td colspan="2">B000: Unregistered blocks</td></tr>
<tr><td rowspan="9">[Line graph type]</td><td colspan="2">L01: Set temperature (Cool)</td></tr>
<tr><td colspan="2">L02: Set temperature (Heat)</td></tr>
<tr><td colspan="2">L03: Room temperature</td></tr>
<tr><td colspan="2">L04: AI controller temperature</td></tr>
<tr><td colspan="2">L05: AHC temperature</td></tr>
<tr><td colspan="2">L06: Outdoor temperature</td></tr>
<tr><td colspan="2">L08: AI controller humidity</td></tr>
<tr><td colspan="2">L00: No selection</td></tr>
<tr><td>[YYYY]</td><td colspan="2">The year specified in the “Comparison date” field</td></tr>
<tr><td>[MM]</td><td colspan="2">The month specified in the “Comparison date” field</td></tr>
<tr><td>[DD]</td><td colspan="2">The date specified in the “Comparison date” field</td></tr>
<tr><td rowspan="4">[Comparison target]</td><td>Address</td><td rowspan="4">The same output format as for display target</td></tr>
<tr><td>Group</td></tr>
<tr><td>Block</td></tr>
<tr><td>Energy management block</td></tr>
<tr><td>[Bar graph type]</td><td colspan="2">The type of the item selected for the bar graph display item for comparison target</td></tr>
<tr><td>[Line graph type]</td><td colspan="2">The type of the item selected for the line graph display item for comparison target</td></tr>
</table>
*1 For AE No., refer to 4 “Name Display” in Chapter 1.
*2 “B999” = Total of all blocks
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>File format</td><td>
<table>
<tr><th>Row</th><th>Item</th><th>Date range</th><th colspan="2">Format</th></tr>
<tr><td rowspan="3">1st</td><td rowspan="3">File Type</td><td>Year</td><td colspan="2">413</td></tr>
<tr><td>Month</td><td colspan="2">412</td></tr>
<tr><td>Day</td><td colspan="2">411</td></tr>
<tr><td rowspan="3">2nd</td><td rowspan="3">Date</td><td>Year</td><td colspan="2">yyyy:YYYY</td></tr>
<tr><td>Month</td><td colspan="2">yyyy/mm:YYYY/MM</td></tr>
<tr><td>Day</td><td colspan="2">yyyy/mm/dd:YYYY/MM/DD</td></tr>
<tr><td rowspan="5">3rd</td><td rowspan="5">Display target/ Comparison target *5</td><td colspan="2">Address</td><td><Indoor unit>
“Address” + AE No.*3 + “-” + M-NET address (001–050)
<PI controller>
“Address” + AE No.*3 + “-” + M-NET address (001–050) + “-” + Metering device No. (1–4)
<Built-in Pulse Input (PI)>
“Pulse input” + AE No.*3 + “-” + Channel No. (1–4)
<AI controller or AHC>
“Address” + AE No.*3 + “-” + M-NET address (001–050, 201–250) + “-” + Sensor No. (1–2)</td></tr>
<tr><td colspan="2">Group</td><td>Group name*2</td></tr>
<tr><td colspan="2">Block</td><td>Block name*2</td></tr>
<tr><td colspan="2">All Blocks</td><td>“All Blocks”</td></tr>
<tr><td colspan="2">Energy management block</td><td>Energy management block name*2</td></tr>
<tr><td>4th</td><td>Measurement item</td><td colspan="3">■ Date range: Year
“Month”, Display target (Bar), Comparison target (Bar), “Target electric energy[kWh]”*1, Display target (Line), Comparison target (Line)
■ Date range: Month
“Day”, Display target (Bar), Comparison target (Bar), “Target electric energy[kWh]”*1, Display target (Line), Comparison target (Line)
■ Date range: Day
“Time”, Display target (Bar), Comparison target (Bar), Display target (Line), Comparison target (Line)

The bar and line graph items that can be output vary with the display target/ comparison target.
V: Item that can be output; –: Item that cannot be output
<table>
<tr><th colspan="2">Display target/Comparison target</th><th>Bar graph</th><th>Line graph</th></tr>
<tr><td rowspan="4">Address</td><td>Indoor unit</td><td>V</td><td>V</td></tr>
<tr><td>Built-in Pulse Input (PI)</td><td>V</td><td>–</td></tr>
<tr><td>PI controller</td><td>V</td><td>–</td></tr>
<tr><td>AI controller</td><td>–</td><td>V</td></tr>
<tr><td colspan="2">Group</td><td>V</td><td>V</td></tr>
<tr><td rowspan="2">Block</td><td>Block</td><td>V</td><td>V</td></tr>
<tr><td>All Blocks</td><td>V</td><td>–</td></tr>
<tr><td colspan="2">Energy management block</td><td>V</td><td>V</td></tr>
</table>
</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>File format</td><td>
<table>
<tr><th>Row</th><th>Item</th><th colspan="2">Date range</th><th colspan="2">Format</th></tr>
<tr><td>4th</td><td>Measurement item</td><td colspan="2"></td><td colspan="2">The format of the display target and comparison target to be output is as follows.
■ Address
<Indoor unit>
“Address” + “-” + AE No.*3 + “-” + Address number + “-” + Display item (Bar/Line)
<PI controller>
“Address” + “-” + AE No.*3 + “-” + Address number + “-” + Metering device No. + “-” + Display item (Bar)
<Built-in Pulse Input (PI)>
“Pulse input” + “-” + AE No.*3 + “-” + Channel No. + “-” + Display item (Bar)
<AI controller or AHC>
“Address” + “-” + AE No.*3 + “-” + Address number + “-” + Sensor No. + “-” + Display item (Line)
■ Group
Group name*2 + “-” + Display item (Bar/Line)
■ Block
Block name*2 + “-” + Display item (Bar/Line)
■ All Blocks
“All Blocks” + “-” + Display item (Bar)
■ Energy management block
Energy management block name*2 + “-” + Display item (Bar/Line)</td></tr>
<tr><td rowspan="3">5th–*4</td><td rowspan="3">Data</td><td>Day</td><td>hh:mm,</td><td rowspan="3">Data value (Bar), Comparison data value (Bar), Target electric energy value*1, Data value (Line), Comparison data value (Line)</td></tr>
<tr><td>Month</td><td>dd,</td></tr>
<tr><td>Year</td><td>mm,</td></tr>
</table>
*1 “Target electric energy(kWh)” and the target electric energy value will appear only when the data is displayed in the graph.
*2 If the group name has not been registered, [“Group” + AE No. + “-” + Group number] will appear. If the block name has not been registered, [“Block” + AE No. + “-” + Block number] will appear. If the energy management block name has not been registered, [“Energy mgmt block” + AE No. + “-” + Energy management block number] will appear.
*3 For AE No., refer to 4 “Name Display” in Chapter 1.
*4 The number of rows varies with the selected date range. (Day: 5th–52nd; Month: 5th–35th; Year: 5th–16th)
*5 When no item is selected as a display item/comparison item, “Target None” will appear.
</td></tr>
<tr><td>File sample (Display range: Block)</td><td>
Date range: Year
413
2015:2014
Administration Dpt./Block01-1-03
Month,Administration Dpt. - Indoor Unit Electric Energy[kWh],Block01-1-03 - Indoor Unit Electric Energy[kWh],Target electric energy[kWh],Administration Dpt. - Outdoor Temp.[ºC],Block01-1-03 - Outdoor Temp.[ºC]
1,675.17,661.93,600,0.4,0.5
2,697.38,683.71,700,0.3,3.2
3,528.63,518.26,400,4.5,3.8

Date range: Month
412
2015/04:2014/04
Administration Dpt./Block01-1-03
Day,Administration Dpt. - Indoor Unit Electric Energy[kWh],Block01-1-03 - Indoor Unit Electric Energy[kWh],Target electric energy[kWh],Administration Dpt. - Outdoor Temp.[ºC],Block01-1-03 - Outdoor Temp.[ºC]
1,24.69,8.74,22,26.2,17.9
2,25.31,8.22,22,27,17.4
3,12.36,22.33,10,25.2,16.6

Date range: Day
411
2015/08/19:2014/06/01
Administration Dpt./Block01-1-03
Time,Administration Dpt. - Indoor Unit Electric Energy[kWh],Block01-1-03 - Indoor Unit Electric Energy[kWh],Administration Dpt. - Outdoor Temp.[ºC],Block01-1-03 - Outdoor Temp.[ºC]
0:00,0.61,0.25,23.2,17.8
1:00,0.65,0.51,23.1,17.6
2:00,0.66,0.48,22.1,18.1
</td></tr>
</table>

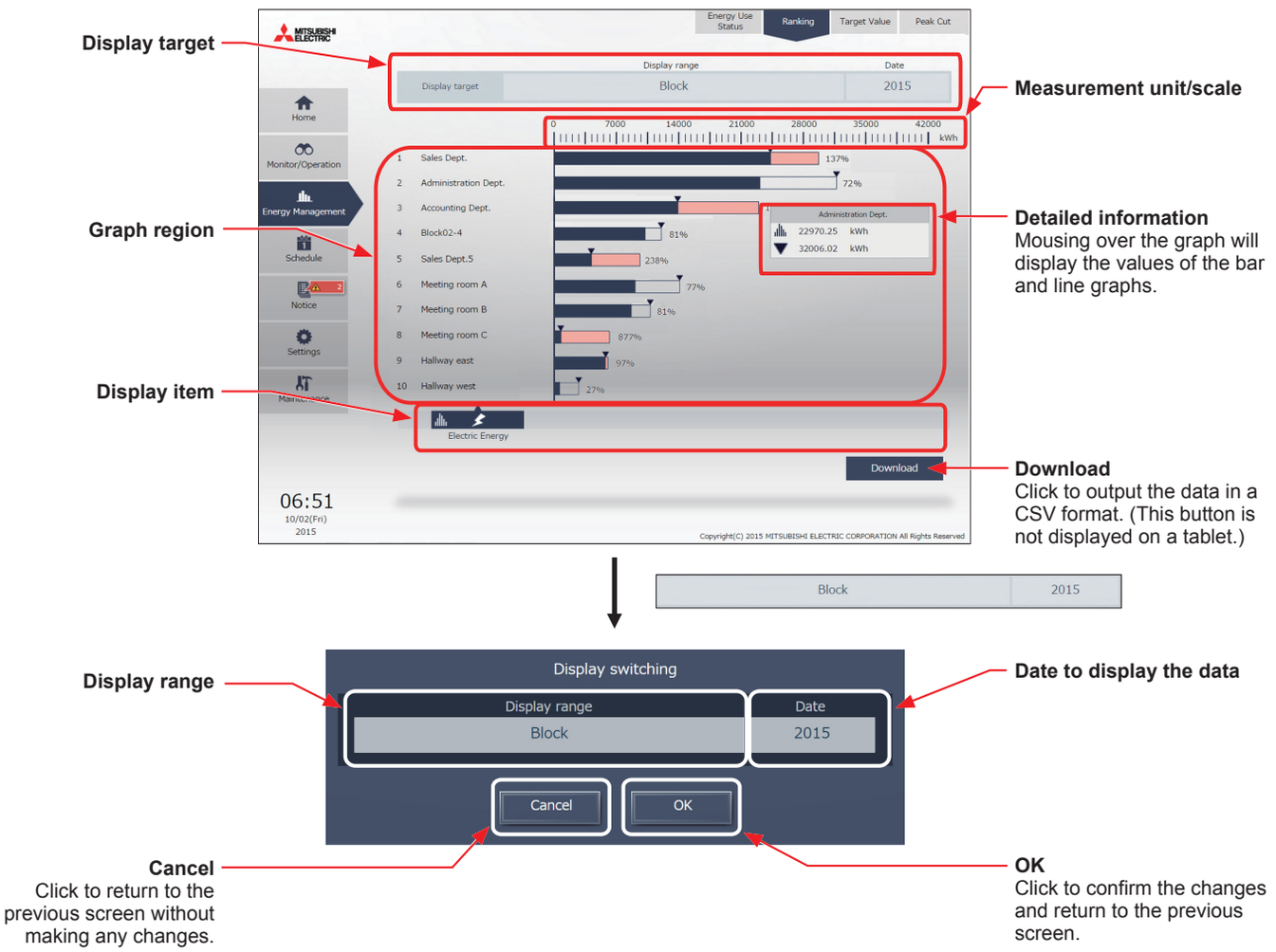
2-2-2. Ranking

On the Ranking screen, the rankings in electric energy consumption, fan operation time, and Thermo-ON time (Total/Cool/Heat) of given indoor units (connected to all centralized controllers that are under the control of the Integrated Centralized Control Web) can be displayed per block, group, unit address, and energy management block in descending order in the bar graph.

Click [Energy Mgmt] in the menu, and then click [Ranking] to access the Ranking screen.

Note: “Energy Management License Pack” is required to access the Ranking screen. (AE-200E/AE-50E/EW-50E only)

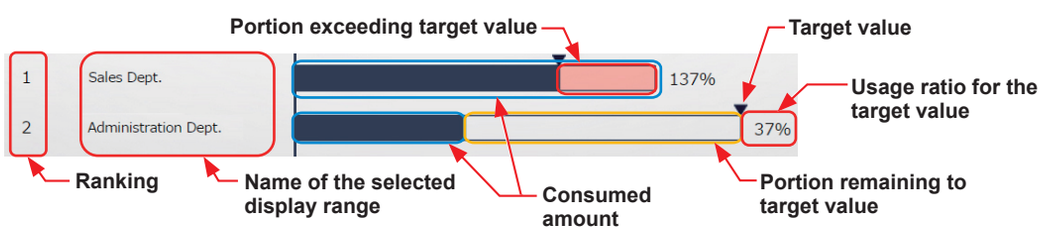
(1) Click [Display target] to set the display items.



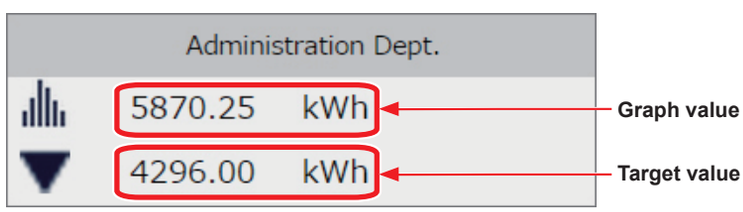
Item	Description
Display target	“Display range” and “date” to display a ranking graph are displayed.
Display range	Select [Block], [Group], [Address], or [Energy management block] to display its data in a ranking graph.
Date	Specify a date to display the data in a ranking graph. Click to display the screen to select “year”, “month”, or “day”. Note: When “year” is specified, specify “yyyy” from the current year or the last 5 years. When “month” is specified, specify “yyyy/mm” from the current month or the last 24 months. When “day” is specified, specify “yyyy/mm/dd” from the current day or the last 24 months. Important: Only the data for the period during which the AE-200/AE-50/EW-50 was powered on will appear in the graph. The data for the period during which the AE-200/AE-50/EW-50 was powered off will not appear in the graph.

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Display item</td><td>Select an item to display its data in a ranking graph.
Note: The selectable items vary, depending on the item selected in the “Display range” field.
<table>
<tr><th>Display range</th><th colspan="6">Display item</th></tr>
<tr><td>Address</td><td rowspan="4">Electric Energy</td><td rowspan="4">FAN operation time</td><td rowspan="4">Thermo-ON time (Total)</td><td rowspan="4">Thermo-ON time (Cool)</td><td rowspan="4">Thermo-ON time (Heat)</td></tr>
<tr><td>Group</td></tr>
<tr><td>Block</td></tr>
<tr><td>Energy management block</td></tr>
</table></td></tr>
<tr><td>Measurement unit/scale</td><td>The graph shows the measurement unit that is suitable for the selected display item, and scale that is automatically adjusted to show the full range of data.</td></tr>
</table>

(2) Click [OK] to return to the previous screen.
The graph will be created based on the specified criteria.

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Graph region</td><td>■ Ranking graph
 

Note: Target value will appear only when [Energy management block] or [Block] is selected.
Note: Target value will not appear when the target value is not set or set to “0”.

■ Detailed information
Mouse over the graph area to display the values on the graph for the area moused over on the graph area.
 
</td></tr>
</table>

(3) To output the displayed ranking data in a CSV format, click [Download].
The file name and file format will vary as shown below, depending on the selected date range.

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>File name</td><td>
Date range: Year
EM_AnnualRanking_[yyyy]_[Display range]_[Ranking graph type].csv

Date range: Month
EM_MonthlyRanking_[yyyy]-[mm]_[Display range]_[Ranking graph type].csv

Date range: Day
EM_DailyRanking_[yyyy]-[mm]-[dd]_[Display range]_[Ranking graph type].csv
<table>
<tr><th>File-name contents</th><th colspan="2">Format</th></tr>
<tr><td>[yyyy]</td><td colspan="2">The year specified in the [Date] field</td></tr>
<tr><td>[mm]</td><td colspan="2">The month specified in the [Date] field</td></tr>
<tr><td>[dd]</td><td colspan="2">The date specified in the [Date] field</td></tr>
<tr><td rowspan="4">[Display range]</td><td>Address</td><td>“A999”</td></tr>
<tr><td>Group</td><td>“G999”</td></tr>
<tr><td>Block</td><td>“B999”</td></tr>
<tr><td>Energy management block</td><td>“E999”</td></tr>
<tr><td rowspan="5">[Ranking graph type]</td><td colspan="2">B01: Indoor unit electric energy</td></tr>
<tr><td colspan="2">B02: Fan operation time</td></tr>
<tr><td colspan="2">B03: Thermo-ON time (Total)</td></tr>
<tr><td colspan="2">B04: Thermo-ON time (Cool)</td></tr>
<tr><td colspan="2">B05: Thermo-ON time (Heat)</td></tr>
</table>
</td></tr>
<tr><td>File format</td><td>
<table>
<tr><th>Row</th><th>Item</th><th>Date range</th><th colspan="2">Format</th></tr>
<tr><td rowspan="3">1st</td><td rowspan="3">File Type</td><td>Year</td><td colspan="2">416</td></tr>
<tr><td>Month</td><td colspan="2">415</td></tr>
<tr><td>Day</td><td colspan="2">414</td></tr>
<tr><td rowspan="3">2nd</td><td rowspan="3">Date</td><td>Year</td><td colspan="2">yyyy</td></tr>
<tr><td>Month</td><td colspan="2">yyyy/mm</td></tr>
<tr><td>Day</td><td colspan="2">yyyy/mm/dd</td></tr>
<tr><td rowspan="4">3rd</td><td rowspan="4" colspan="2">Display range</td><td>Address</td><td>“All Addresses”</td></tr>
<tr><td>Group</td><td>“All Groups”</td></tr>
<tr><td>Block</td><td>“All Blocks”</td></tr>
<tr><td>Energy management block</td><td>“All EM Blocks”</td></tr>
<tr><td rowspan="4">4th</td><td rowspan="4" colspan="2">Measurement item</td><td>Address</td><td>“Address number”, Display item</td></tr>
<tr><td>Group</td><td>“Group name”*1, Display item</td></tr>
<tr><td>Block</td><td>“Block name”*1, Display item, “Target electric energy[kWh]”*2</td></tr>
<tr><td>Energy management block</td><td>“Ene Block name”*1, Display item, “Target electric energy[kWh]”*2</td></tr>
<tr><td rowspan="4">5th–28th</td><td rowspan="4" colspan="2">Data</td><td>Address</td><td>Address number, Data value</td></tr>
<tr><td>Group</td><td>Group name*1, Data value</td></tr>
<tr><td>Block</td><td>Block name*1, Data value, Target electric energy value*2</td></tr>
<tr><td>Energy management block</td><td>Energy management block name*1, Data value, Target electric energy value*2</td></tr>
</table>
*1 If the group name has not been registered, [“Group” + AE No. + “-” + group number] will appear. If the block name has not been registered, [“Block” + AE No. + “-” + block number] will appear. If the energy management block name has not been registered, [“Energy mgmt block” + AE No. + “-” + Energy management block number] will appear.
*2 “Target electric energy(kWh)” and the target electric energy value will appear only when the data is displayed in the graph.
</td></tr>
</table>

Item	Description
File sample (Display range: Block)	Date range: Year 416 2015 All Blocks Block name,Indoor Unit Electric Energy[kWh],Target electric energy[kWh] Administration Dept.,9370.68,7886.4 Block01-1-03,7283.76,6744.36 Unregistered Blocks,6327.72,7339.56 Block01-01,4166.4,6286.8 Block03-01-10,2302.68,1949.28 Accounting Dept.,2224.56,4077.12 Date range: Month 415 2015/06 All Blocks Block name,Indoor Unit Electric Energy[kWh],Target electric energy[kWh] Administration Dept.,780.89,657.2 Block01-1-03,606.98,562.03 Unregistered Blocks,527.31,611.63 Block01-01,347.2,523.9 Block03-01-10,191.89,162.44 Accounting Dept.,185.38,339.76 Date range: Day 414 2015/06/01 All Blocks Block name,Indoor Unit Electric Energy[kWh],Target electric energy[kWh] Administration Dept.,25.19,21.2 Block01-1-03,19.58,18.13 Unregistered Blocks,17.01,19.73 Block01-01,11.2,16.9 Block03-01-10,6.19,5.24 Accounting Dept.,5.98,10.96

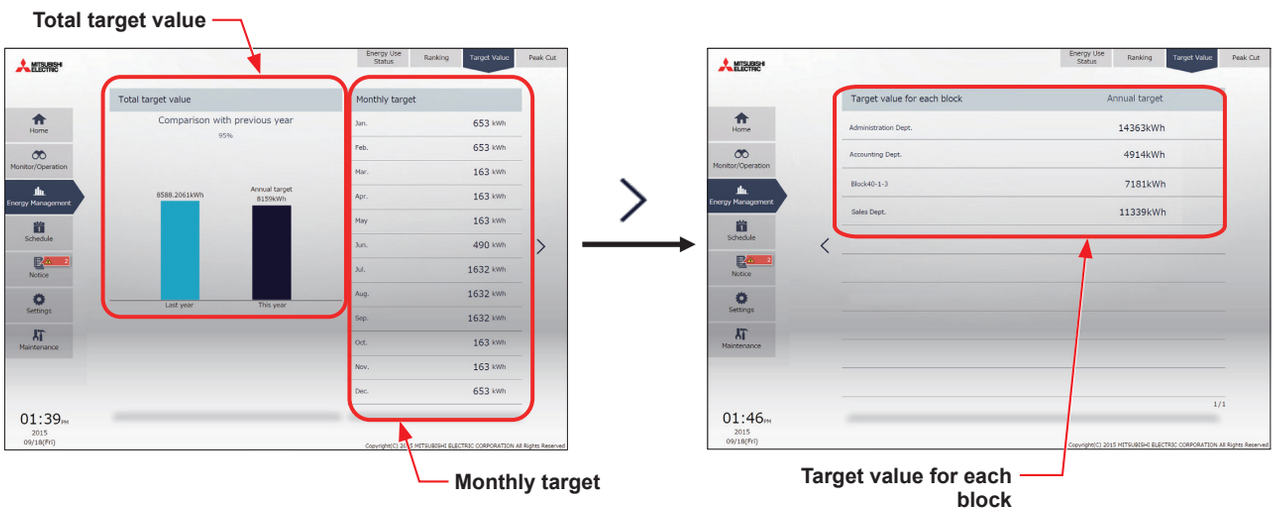
2-2-3. Target Value

On the Target Value screen, target values that are displayed in the graph on the Energy Use Status screen and the Ranking screen can be checked.

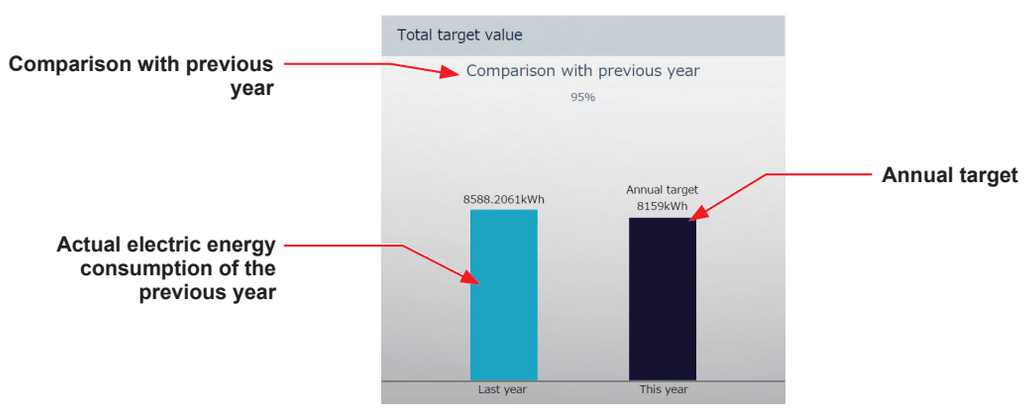
Target values will be set for each centralized controller. Here, target values for all centralized controllers that are managed by the Integrated Centralized Control Web can be displayed.

Click [Energy Mgmt] in the menu, and then click [Target Value] to access the Target Value screen.

Note: Target value settings can be configured on the AE-200/AE-50's LCD.



(1) Check the annual target electric energy value.



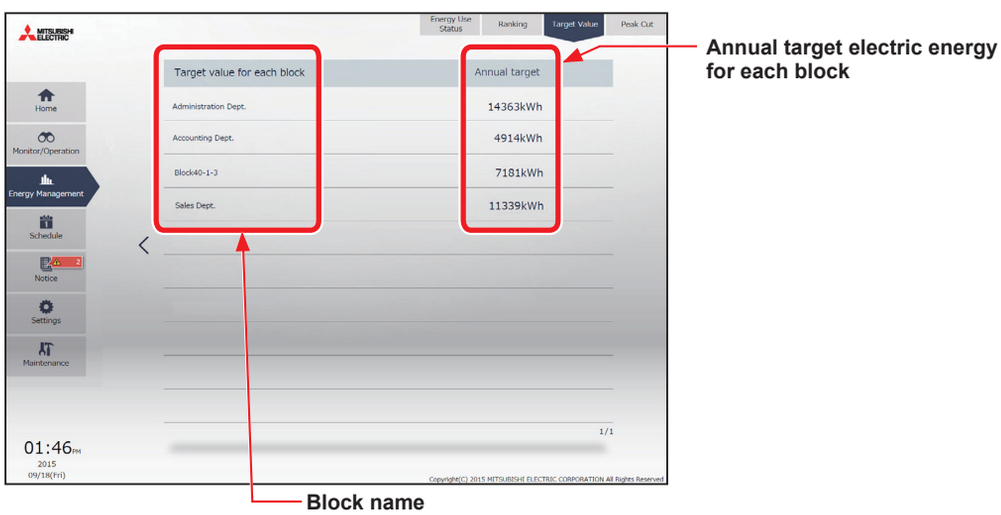
Item	Description
Annual target electric energy	The annual target electric energy consumption value is displayed.
Actual electric energy consumption of the previous year	The electric energy actually consumed in the previous year is displayed.
Comparison with previous year	The ratio of the annual target electric energy of the current year to the electric energy consumed in the previous year is displayed. Note: If there are results for the previous year, then at the new year, a comparison of the previous year's annual target electric energy and results will be displayed.

(2) Check the target electric energy values for each month.



Item	Description
Monthly target electric energy	The monthly target electric energy for the air conditioning units within the Integrated Centralized Control Web is displayed.

(3) Check the target electric energy values for each block.



Item	Description
Block name	The names of all the registered blocks are displayed. Note: The blocks set for tenant manager management are displayed. Note: If the block name has not been registered, [AE No. + “Block” + Block number] is displayed.
Annual target electric energy for each block	The annual target electric energy values for each block will appear are displayed.

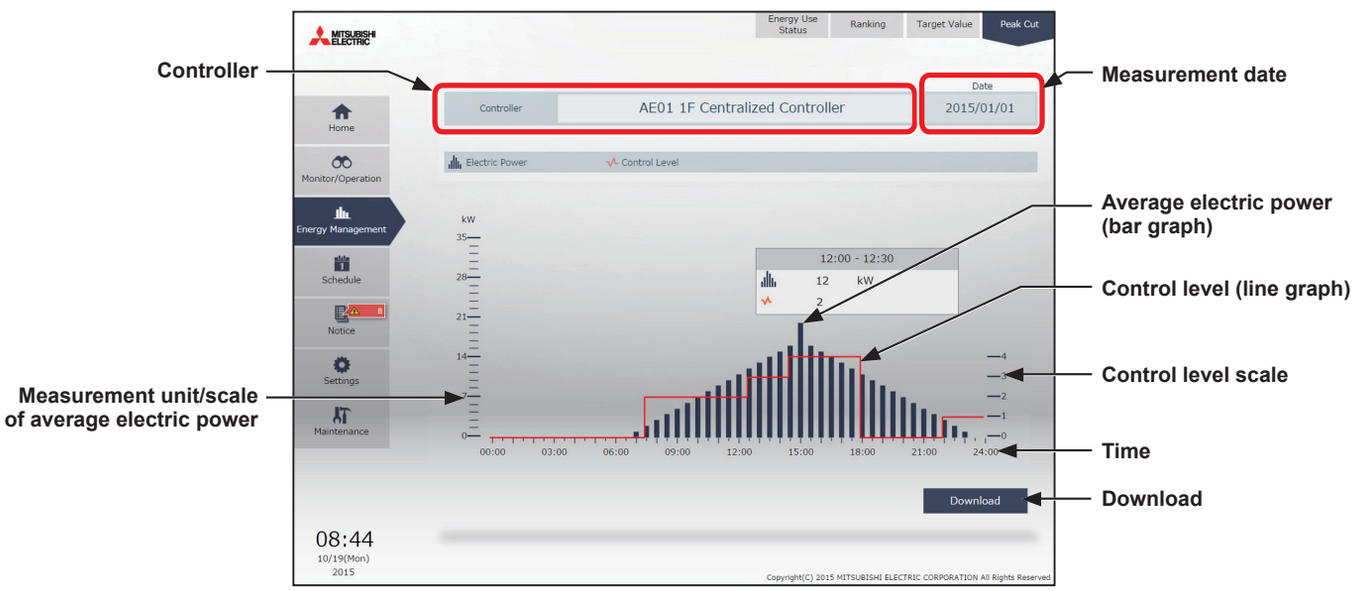
2-2-4. Peak Cut

The Peak Cut screen displays the average electric power consumption (30 minutes (demand value)) graph for each centralized controller, and the Peak Cut control level (0 to 4) graph.
Confirmation of daily energy-saving status through shifts in demand values, maximum values, and shifts in control levels is possible. Additionally, by looking at Peak Cut control status, adjustment of control level settings values (electric power) is possible.
Click [Energy Mgmt] in the menu, and then click [Peak Cut] to access the Peak Cut screen.

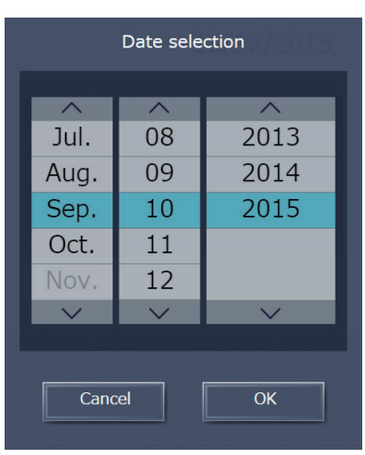
Note: A separate license is required to use the Peak Cut control.

Note: Peak Cut control settings are configured in the initial settings. Refer to the Instruction Book (Initial Settings) for settings methods.

Note: Average electric power consumption is based on the electric power consumed in 30-minute period (the first 30 minutes and the last 30 minutes of each hour) in the past.



(1) In the [Controller] section, select a centralized controller to display a Peak Cut control status graph.
The measurement data of the specified measurement date will appear.

Item	Description
Controller	Select a centralized controller.
Measurement date	Click to display the date selection screen, and select the measurement date.  Note: The data of the past 25 months including the current day can be displayed.

Item	Description
Average electric power	Average electric power consumption (kW) will appear in 30-minute increments in a bar graph. Note: Every hour on the hour, the average electric power for the previous 30 minutes (30 to 59 minutes) is displayed, and every hour on the half hour, the average electric power for the previous 30 minutes (00 to 29 minutes) is displayed. Note: Average electric power consumption data are stored every hour and half hour. If a power failure occurs, up to 30-minute worth of data will be lost. Note: The graph can be displayed only when the Peak Cut method is set to “Electric Amount Count PLC” or “PI Controller” in the initial settings. Refer to the Instruction Book (Initial Settings) for settings methods..
Control level	Peak Cut control level will appear in a line graph.

(2) Click [Download] to output the measurement data in a CSV format

Note: This function cannot be used on a tablet.

Item	Description
File name	Peakcut_[yyyy]-[mm]-[dd]_[AE No.].csv File-name contents / Format: [yyyy] — The year specified in [Measurement date] [mm] — The month specified in [Measurement date] [dd] — The date specified in [Measurement date] [AE No.] — Centralized controller No. *1 *1 For centralized controller No., refer to 4 “Name Display” in Chapter 1.
File format	Row 1st: File Type — 123 Row 2nd: Date — yyyy/mm/dd Row 3rd: Target — “Peakcut energy” Row 4th: Measurement item — “Time,Power(kW),Control level” Row 5th–: Data — hh:mm (1-minute intervals), average electric power consumption, control level Note: Average electric power consumption (kW) in 30-minute period will appear in 30-minute increments.
File sample	123 2015/06/01 Peakcut energy Time,Power(kW),Control level 00:00,12.73,1 00:01,12.73,1 00:02,12.73,1 : : 23:58,11.89,3 23:59,11.89,2

2-3. Schedule

Schedule function can be used to change the operation status of the air conditioning units automatically at a given time. Weekly (5 types), annual (5 types), and current day scheduling are available. Up to 24 events can be scheduled per day.

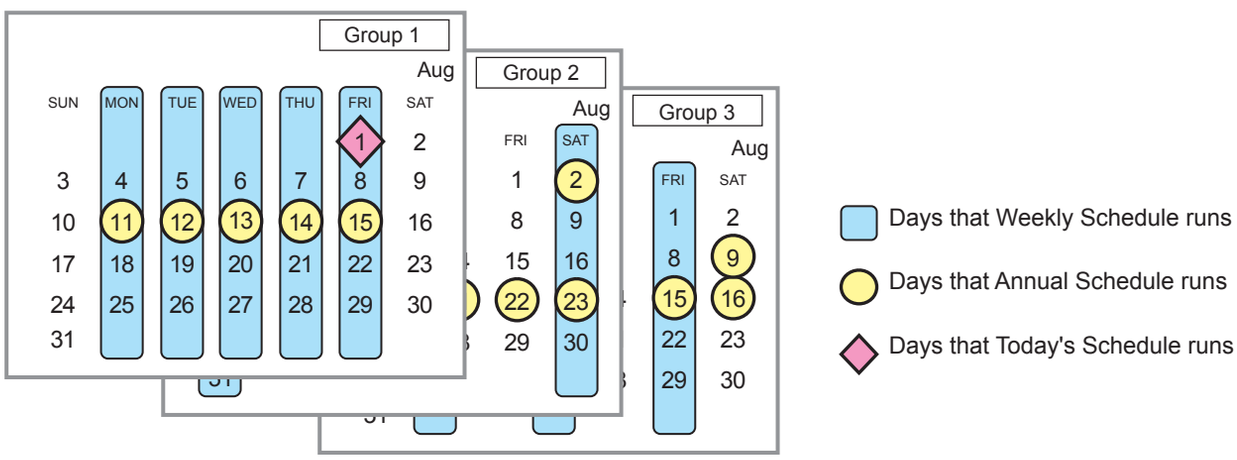
Note: When the schedules overlap, schedule with the highest priority will run as shown on the next page. (Today's schedule>Annual schedule>Weekly schedule 1 to 5)

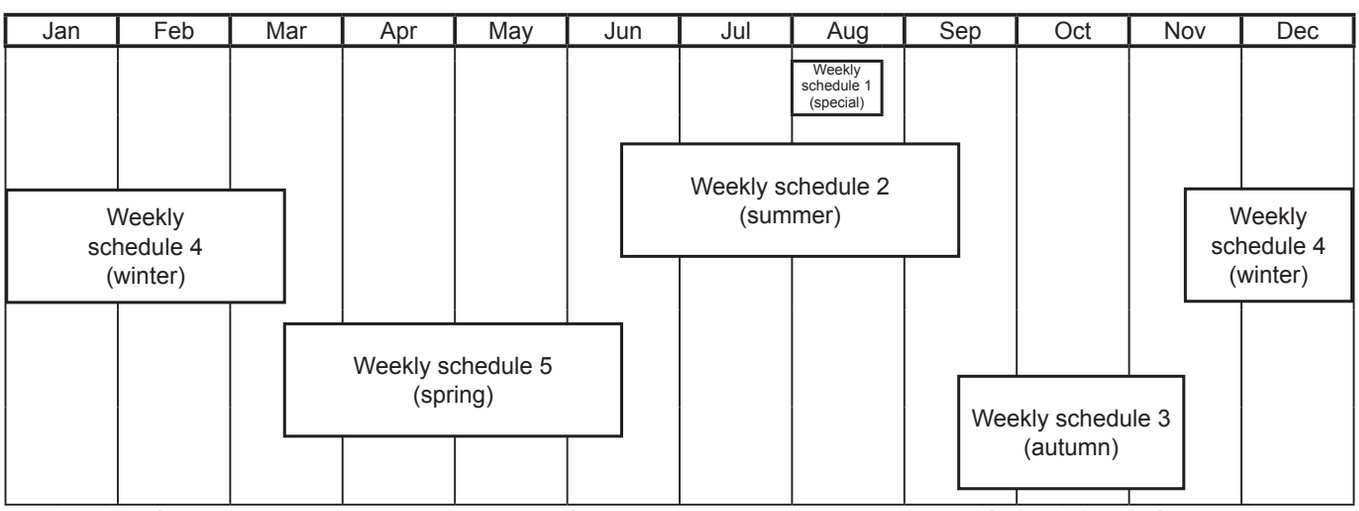
Note: Schedules can be set for each unit group.

Note: Set the [Schedule] setting on the operation settings screen for each unit group to [Available] to enable the scheduled events.

Note: Schedule settings are based upon the set PC time, however, execution of scheduled tasks uses the time set on the centralized controller.
Ensure that the times set on the PC and on the centralized controller match before configuring settings. Refer to 2-5-3 [1] "Date and Time Settings" in Chapter 2 for details on ensuring these match.

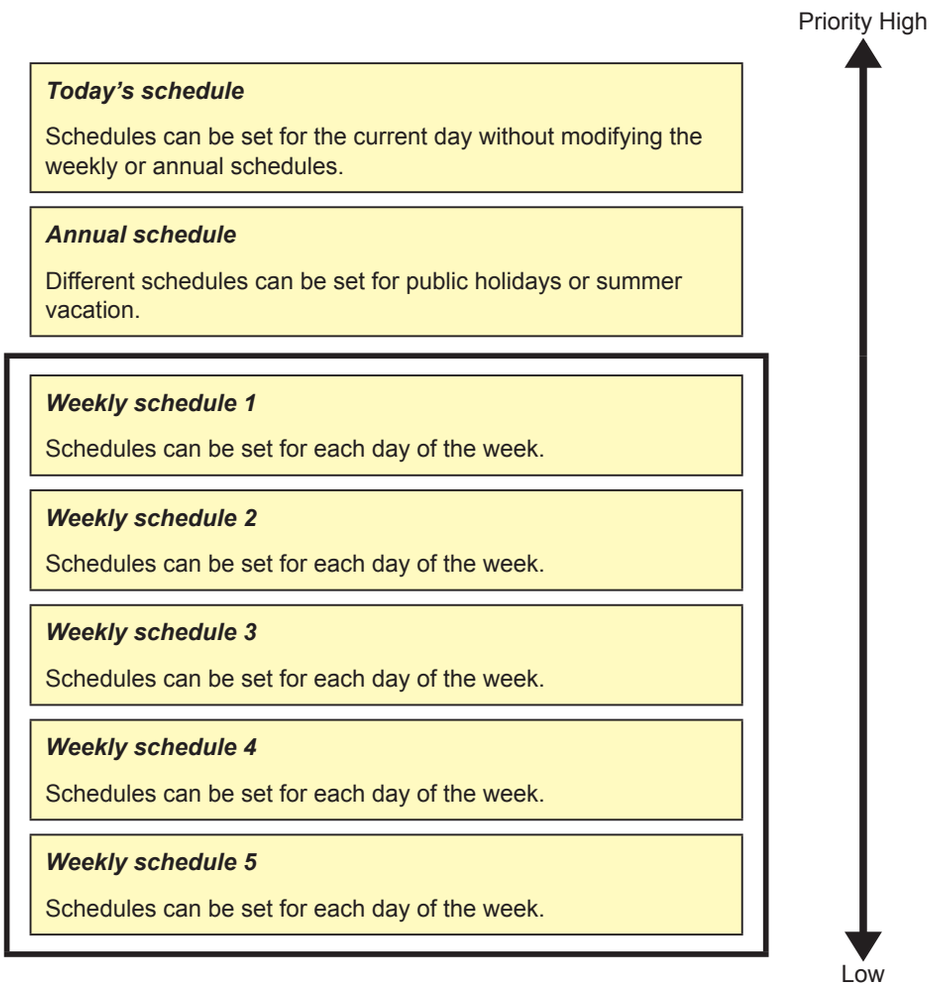
2-3-1. Schedule setting example





Note: The figure above shows the setting example of weekly schedules where the date period for each Weekly Schedule is set to the followings.
Weekly Schedule 1: Aug 1 - Aug 20
Weekly Schedule 2: Jun 16 - Sep 15
Weekly Schedule 3: Sep 16 - Nov 15
Weekly Schedule 4: Nov 16 - Mar 15
Weekly Schedule 5: Mar 16 - Jun 15

Note: When any of the Weekly Schedules 1, 2, 3, 4, and 5 overlap, the schedule with the lower number takes priority. For example, Weekly Schedule 1 takes precedence over Weekly Schedule 2.


Priority High
Today's schedule
Schedules can be set for the current day without modifying the weekly or annual schedules.
Annual schedule
Different schedules can be set for public holidays or summer vacation.
Weekly schedule 1
Schedules can be set for each day of the week.
Weekly schedule 2
Schedules can be set for each day of the week.
Weekly schedule 3
Schedules can be set for each day of the week.
Weekly schedule 4
Schedules can be set for each day of the week.
Weekly schedule 5
Schedules can be set for each day of the week.
Low

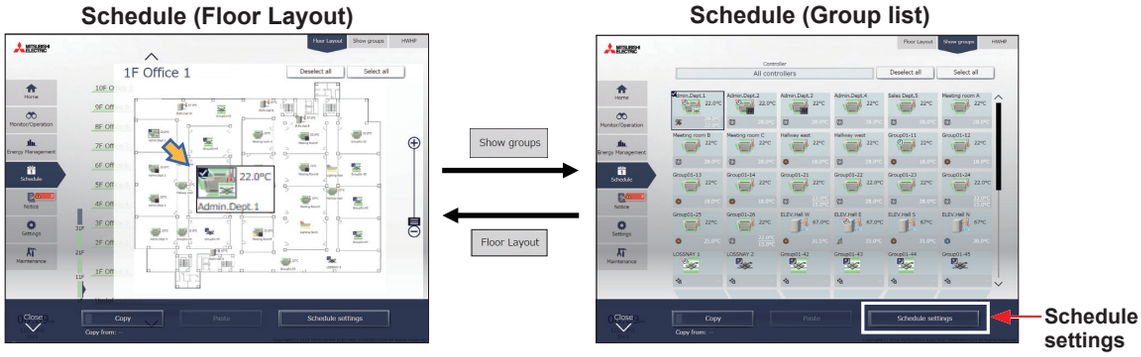
2-3-2. Weekly Schedule

Five types of weekly schedules (Weekly 1 to 5) can be set. Operations can be scheduled for each day of the week for each weekly schedule.

[1] Selecting a target to which the schedule will be applied

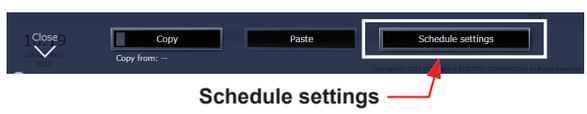
In the Floor Layout screen or group list, select a group icon(s) to which the schedule will be applied, and click [Schedule settings]. A screen to set a schedule for the selected group(s) will appear.
Refer to section 2-1-4 “Selecting the icons of the groups to be operated” for how to select group icons.

Schedule (Floor Layout) **Schedule (Group list)**



(1) Select [HWHP] to set the schedule for HWHP (CAHV, CRHV) units, or select [Show groups] to set the schedule for other equipment.

(2) Select a group icon(s) to which the schedule will be applied, and click [Schedule settings] in the taskbar.



(3) If different equipment types exist together, a screen to select an equipment type will appear.
Select one of the equipment types to set the schedule.

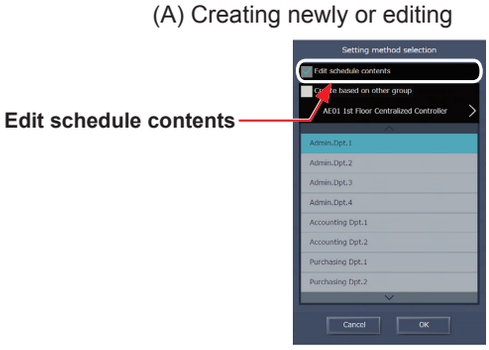


(4) Select a setting method.

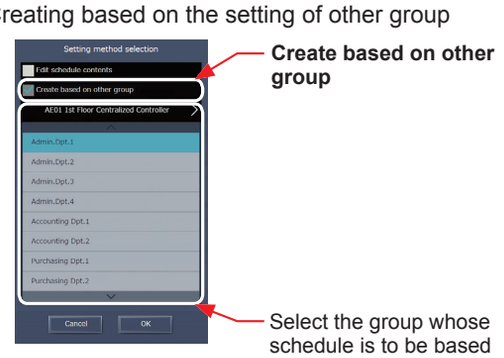
(A) To create a new schedule or to edit an existing schedule, click [Edit schedule contents] and click [OK].

(B) To create a schedule based on the existing setting of other group, select [Create based on other group], select the group whose schedule is to be based on, and click [OK]. The contents of the schedule that have been set for the selected group will appear on the screen that will appear next.

(A) Creating newly or editing



(B) Creating based on the setting of other group



Note: If the group whose schedule is to be based on has no schedule settings, no contents of the schedule will appear on the screen that will appear next.

[2] Setting the date range for each schedule

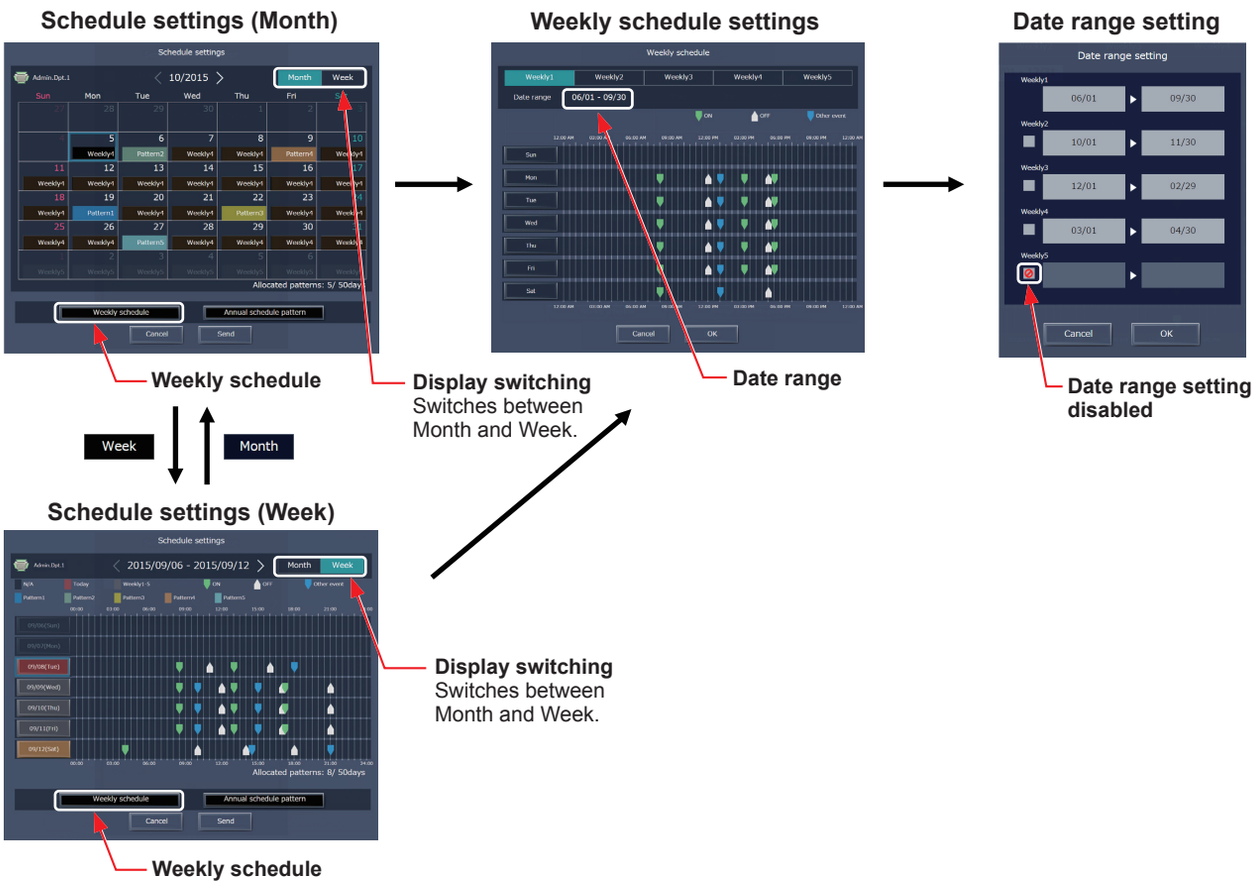
Five types of weekly schedules can be set. (One year is divided into the maximum of five periods.)

Note: The weekly schedule date ranges are set for each centralized controller (AE-200/AE-50/EW-50). When the weekly schedule date ranges are set with Integrated Centralized Control Web, the same settings will be sent to all the centralized controllers that are control targets of Integrated Centralized Control Web.

(1) In the Schedule settings screen (Month or Week display), click [Weekly schedule].

(2) In the Weekly schedule settings screen, click [Date range].

(3) In the date range settings screen, enter the date ranges in which each weekly schedule (Weekly 1 to 5) will be effective.



Note: On the date range setting screen, check the checkbox ( ) to disable the date range setting of the checked weekly schedule.

Note: If the “Schedule: Season setting” setting is set to “Not Available” in the initial settings, the date range settings cannot be used. For initial settings, refer to the Instruction Book (Initial Settings).

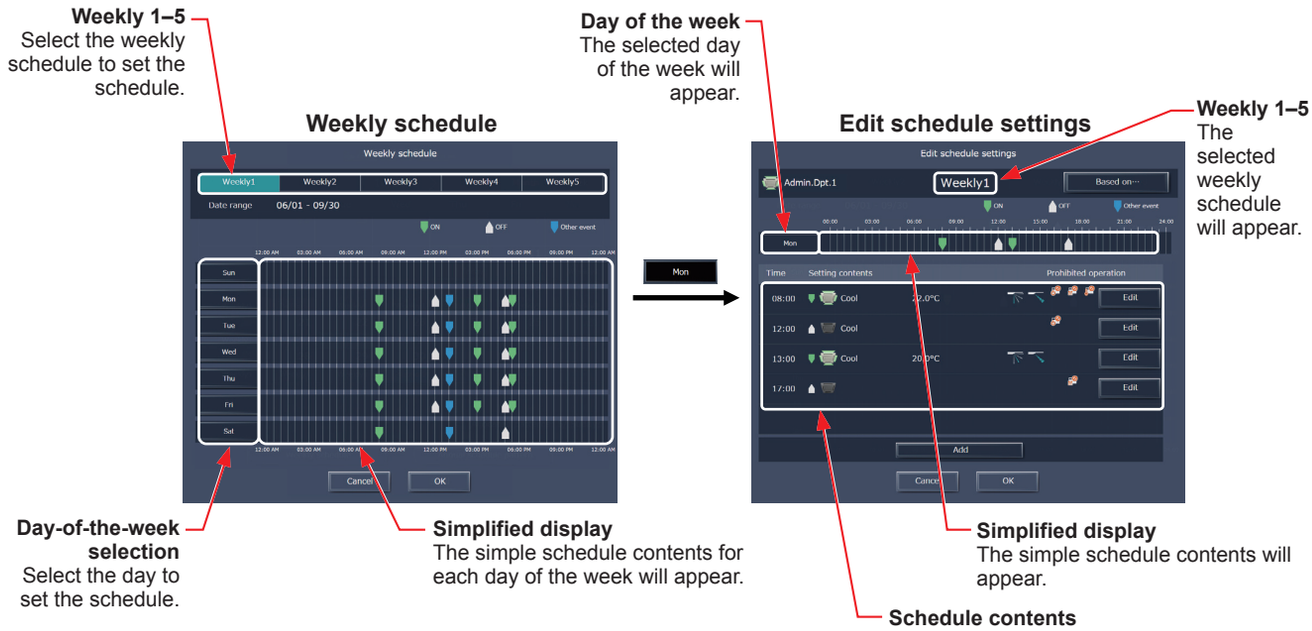
Note: Ensure that the “Available” or “Not Available” settings for “Schedule: Season setting” for all connected centralized controllers match.

[3] Selecting a day of the week

Schedules can be set for each day of the week for each weekly schedule (Weekly 1 to 5).

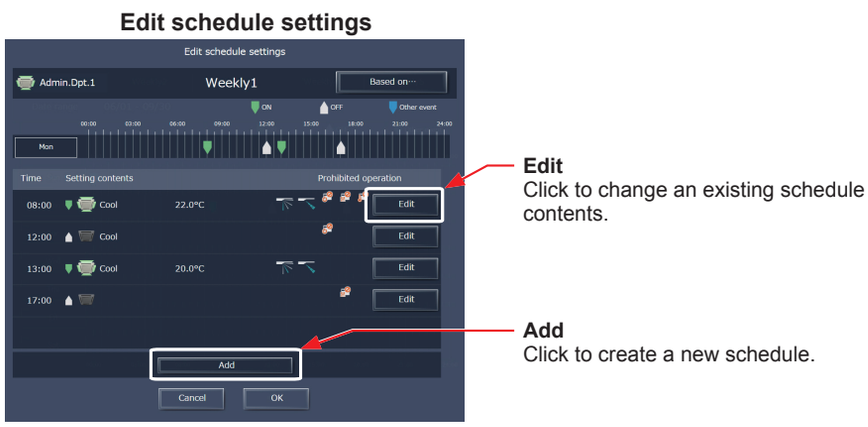
(1) In the Schedule settings screen, select one of the weekly schedule (Weekly 1 to 5).

(2) Click the day to set the schedule.
A screen to edit the schedules of the selected weekly schedule and the selected day of the week will appear.

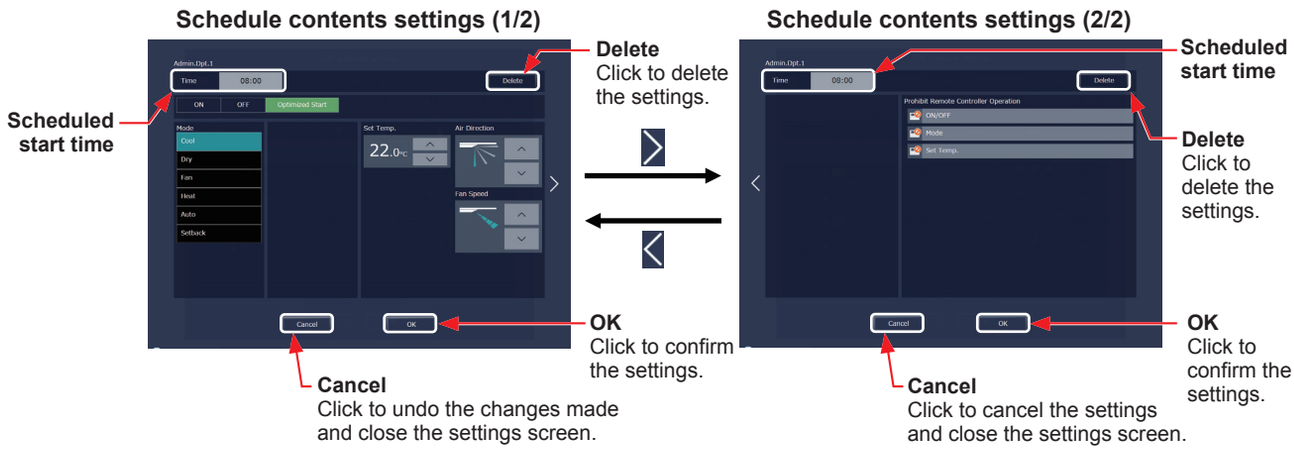


[4] Creating or changing the schedule contents

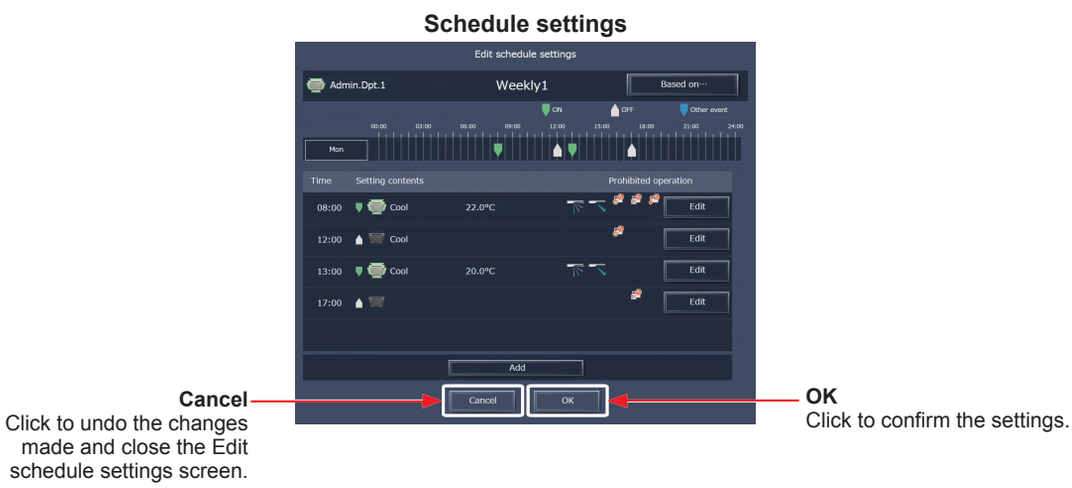
(1) In the Edit schedule settings screen, click [Add] to create a new schedule, or click [Edit] to change an existing schedule. A schedule contents settings screen will appear.



(2) In the schedule contents settings screen, set the start time to apply to the schedule, set the operations to be scheduled, and then click [OK].
If [Optimized Start] is selected, the operation mode and the set temperature need to be set as well.



(3) After all schedule settings are completed, click [OK] on the Edit schedule settings screen.



Note: When setting a schedule for a block or all groups collectively, all operation modes are available for selection, but the available operation modes depend on the unit model. The units will not operate in the selected mode not supported by the units.

Note: No need to set schedules for all operations. Set one or more necessary operations.

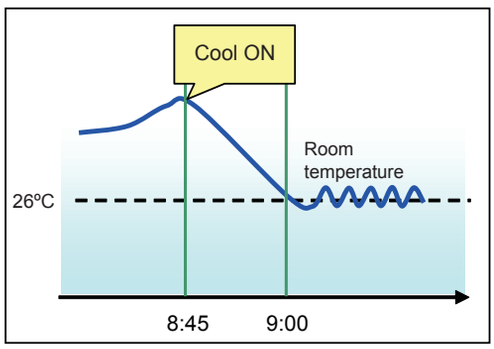
Note: The operation items that will appear on the screen vary, depending on the equipment type.

Note: For details about settings of each operation, refer to section 2-1-5 “Advanced settings”.

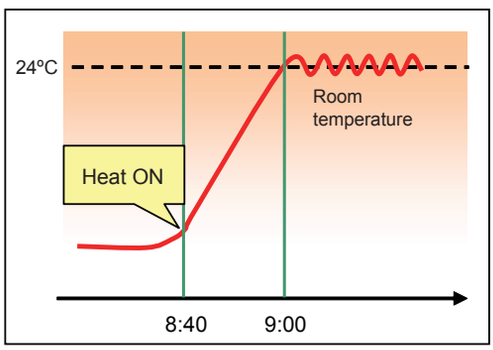
Note: About Optimized Start function

The Optimized Start function will start the units 5 to 60 minutes prior to the scheduled start time to reach the set temperature at the scheduled start time. To use this function, select [Optimized Start] on the schedule contents settings screen.

- When the units start the first time after a power reset, the units will start operation 30 minutes before the scheduled start time.
- If the room temperature is measured by the return air temperature sensor on the air conditioning unit, the measured value may not be an accurate representation of the temperature in the room. When this is the case, use an external temperature sensor (PAC-SE40TSA) or remote controller sensor to measure the room temperature.
- [Optimized Start] can be selected only for air conditioning units and Air To Water units.



Operation mode: Cool
Start time: 9:00
Set temperature: 26ºC

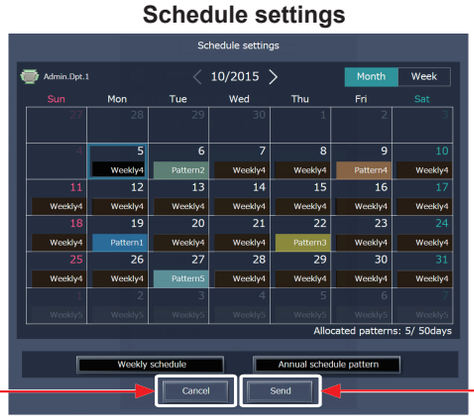


Operation mode: Heat
Start time: 9:00
Set temperature: 24ºC

[5] Saving the schedules

(1) After the schedule settings are completed, click [Send] on the Schedule settings screen to send and save the settings to the centralized controllers.
To undo the changes made, click [Cancel].

Schedule settings



Cancel
Click to undo the changes made and close the Schedule settings screen.

Send
Click to save the settings.

Note: Clicking [Send] will send the schedule settings to the centralized controllers (AE-200/AE-50/EW-50). It may take a few minutes to complete the transmission, depending on the volume of the schedule contents.

2-3-3. Annual Schedule

Schedules can be set for public holidays or summer vacation.
Up to five operation patterns (Pattern 1 to 5) can be set for the 24 months including the current month, and total of 50 days can be allocated to the patterns.

[1] Selecting a target to which the schedule will be applied

(1) In the Floor Layout screen or group list, select a group icon(s) to which the schedule will be applied.
Refer to [1] in 2-3-2 “Weekly Schedule” for details.

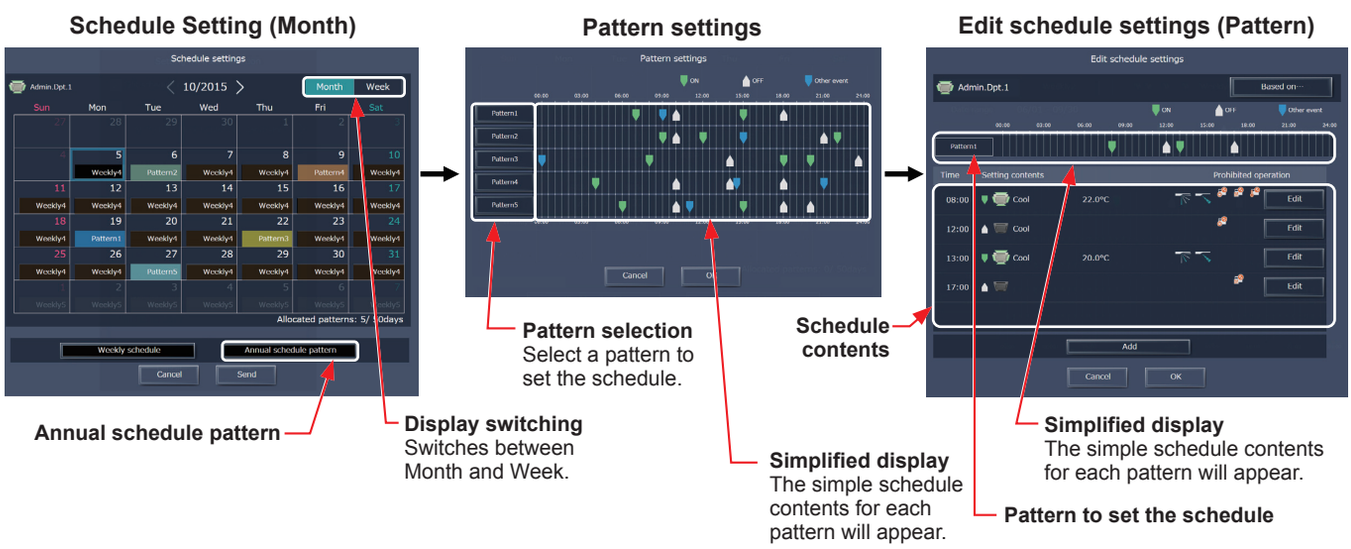
[2] Selecting a schedule pattern

Up to five operation patterns can be set.

(1) In the Schedule settings screen (Month or Week display), click [Annual schedule pattern].

(2) In the pattern settings screen, select a schedule pattern to set the schedule.

(3) An Edit schedule settings screen will appear.



[3] Creating or changing the schedule contents

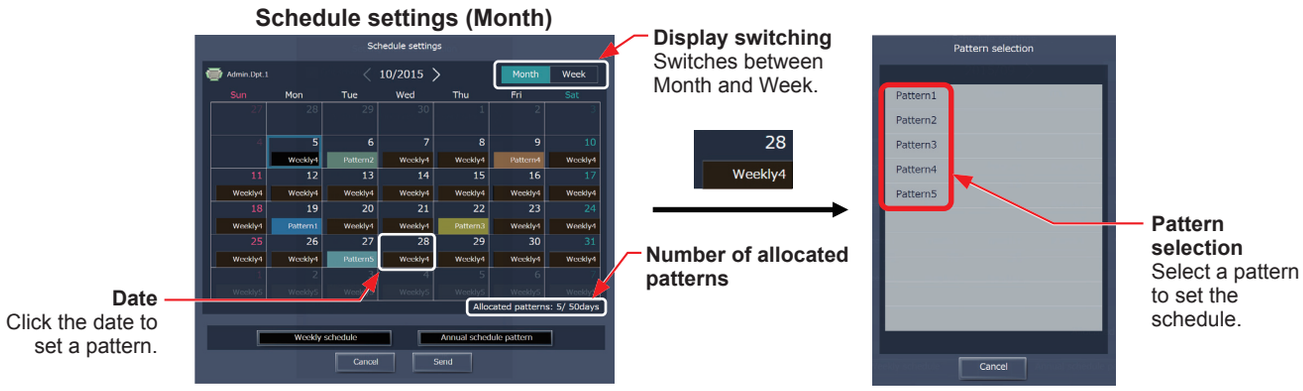
(1) In the Edit schedule settings screen, set the start time to apply to the schedule, set the operations to be scheduled, and then click [OK].
Refer to [4] in 2-3-2 “Weekly Schedule” for details.

[4] Allocating schedule patterns to special dates

Each schedule pattern can be allocated to the specified dates such as public holidays and summer vacation.

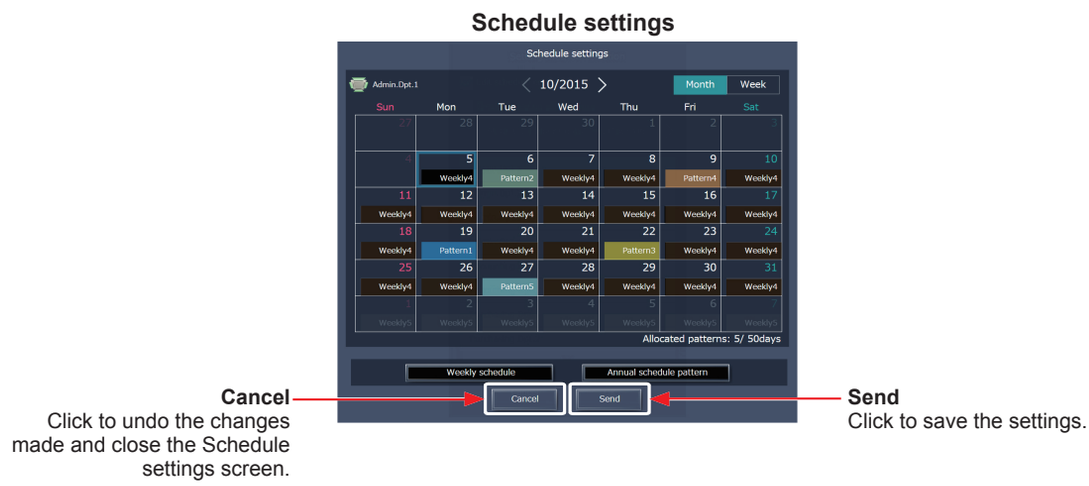
(1) In the Schedule settings screen (Month or Week display), click the date to set a pattern.

(2) Select the pattern to be allocated to the selected date.



[5] Saving the schedules

(1) After the schedule settings are completed, click [Send] on the Schedule settings screen to send and save the settings to the centralized controllers.
To undo the changes made, click [Cancel].



Note: Clicking [Send] will send the schedule settings to the centralized controllers (AE-200/AE-50/EW-50). It may take a few minutes to complete the transmission, depending on the volume of the schedule contents.

2-3-4. Today's Schedule

Schedules can be set for the current day without modifying the weekly or annual schedules.

Note: It is not possible to delete the today's schedule and change it to the weekly or annual schedule.

[1] Selecting a target to which the schedule will be applied

(1) In the Floor Layout screen or group list, select a group icon(s) to which the schedule will be applied.
Refer to [1] in 2-3-2 "Weekly Schedule" for details.

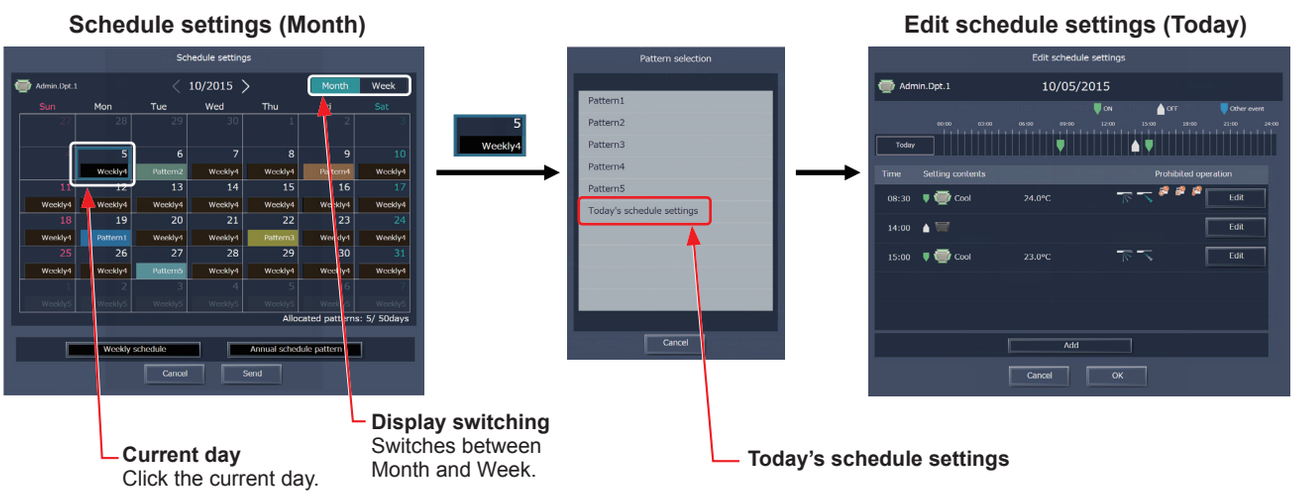
[2] Setting or changing the contents of the schedule

(1) In the Schedule settings screen (Month or Week display), click the date of the current day.
The current day is displayed with a blue frame.

(2) Click [Today's schedule settings].

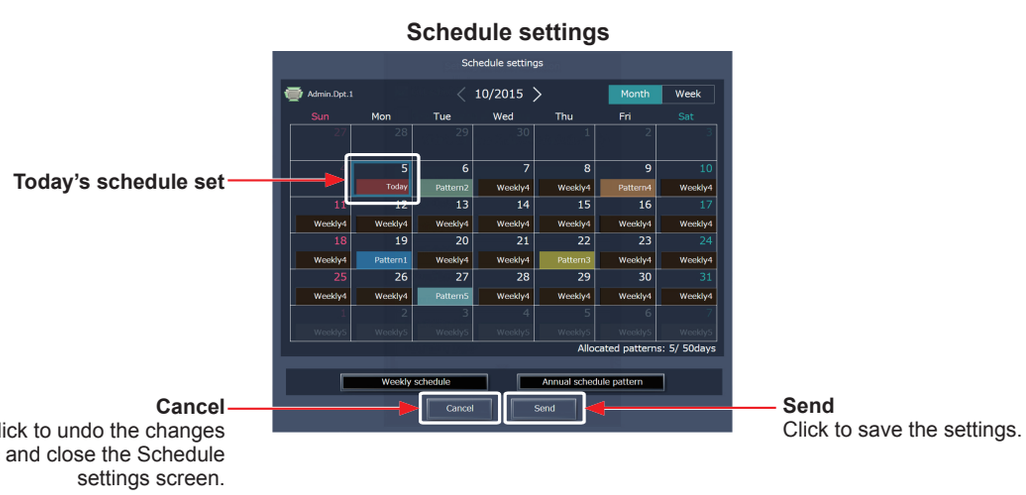
(3) In the Edit schedule settings screen, set the start time to apply to the schedule, set the operations to be scheduled, and then click [OK].
Refer to [4] in 2-3-2 "Weekly Schedule" for details.

Note: In the Schedule settings screen, "Today" (5 Today) is displayed on the date of the current day to which Today's schedule is set.



[3] Saving the schedules

(1) After the schedule settings are completed, click [Send] on the Schedule settings screen to send and save the settings to the centralized controllers.
To undo the changes made, click [Cancel].



Note: Clicking [Send] will send the schedule settings to the centralized controllers (AE-200/AE-50/EW-50). It may take a few minutes to complete the transmission, depending on the volume of the schedule contents.

2-3-5. Copying existing settings, or creating a schedule based on other settings

[1] Copying existing settings of other group

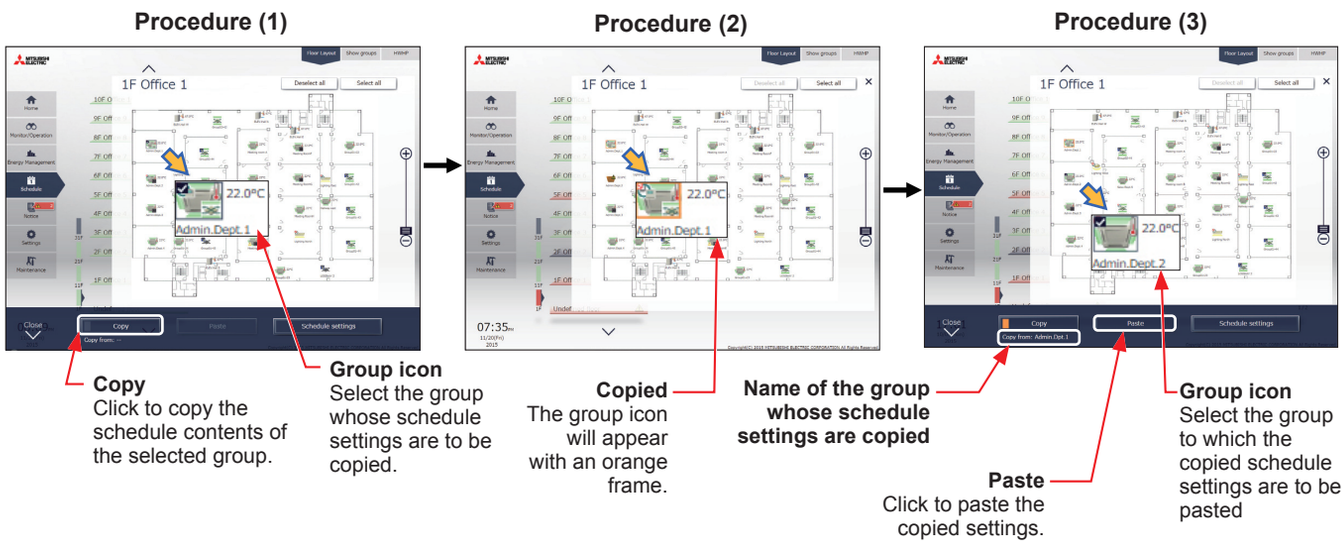
The schedule settings can be copied among groups.

(1) In the Floor Layout screen or group list, select the group whose schedule settings are to be copied, and then click [Copy] in the taskbar.

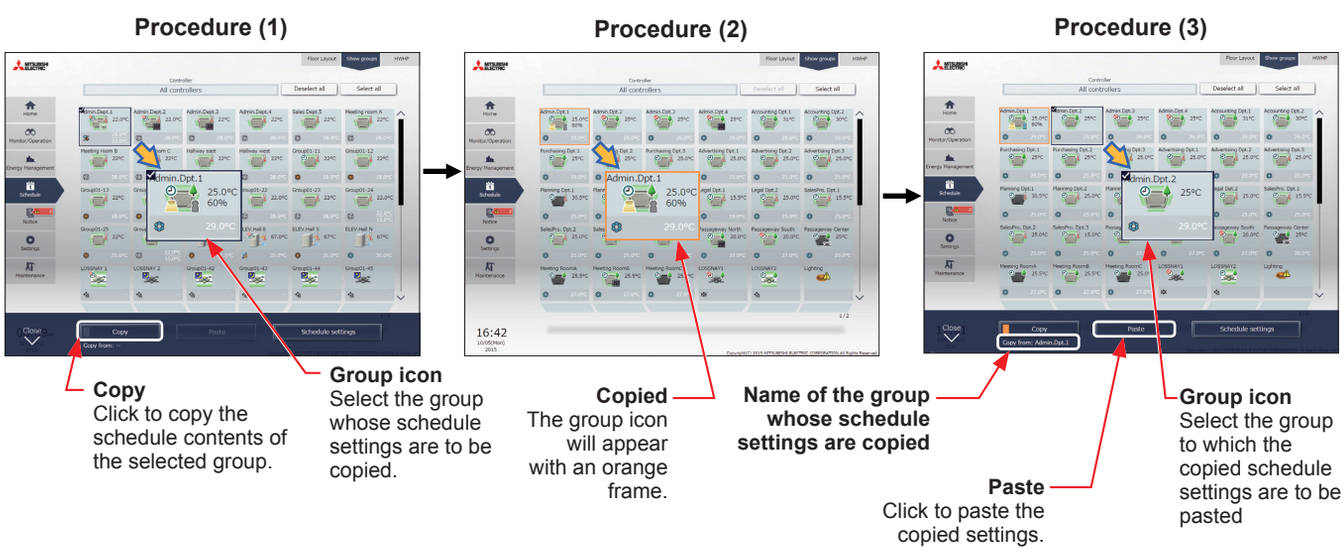
(2) The schedule contents of the selected group will be copied, and the group icon will appear with an orange frame.

(3) Select the group to which the copied schedule settings are to be pasted, and click [Paste].
The name of the group whose schedule settings have been copied appears under the [Copy] button.

• Floor Layout screen



• Group list



Note: Schedules of a group cannot be copied to a different type of group.

[2] Creating a schedule based on existing settings of other pattern/day of the week

When setting annual schedule patterns or setting schedules for each day of the week for weekly schedule, the schedule settings can be created based on existing settings of other pattern or other day of the week.

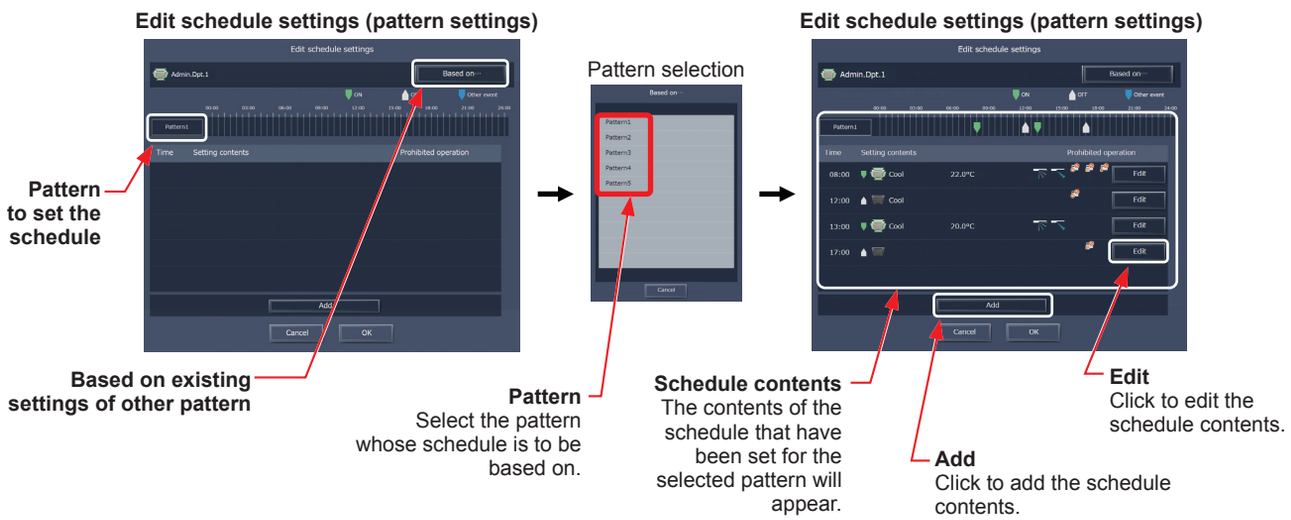
(1) In the Edit schedule settings screen, click [Based on...].

(2) In the [Based on...] screen, select the pattern or the day of the week whose schedule is to be based on.

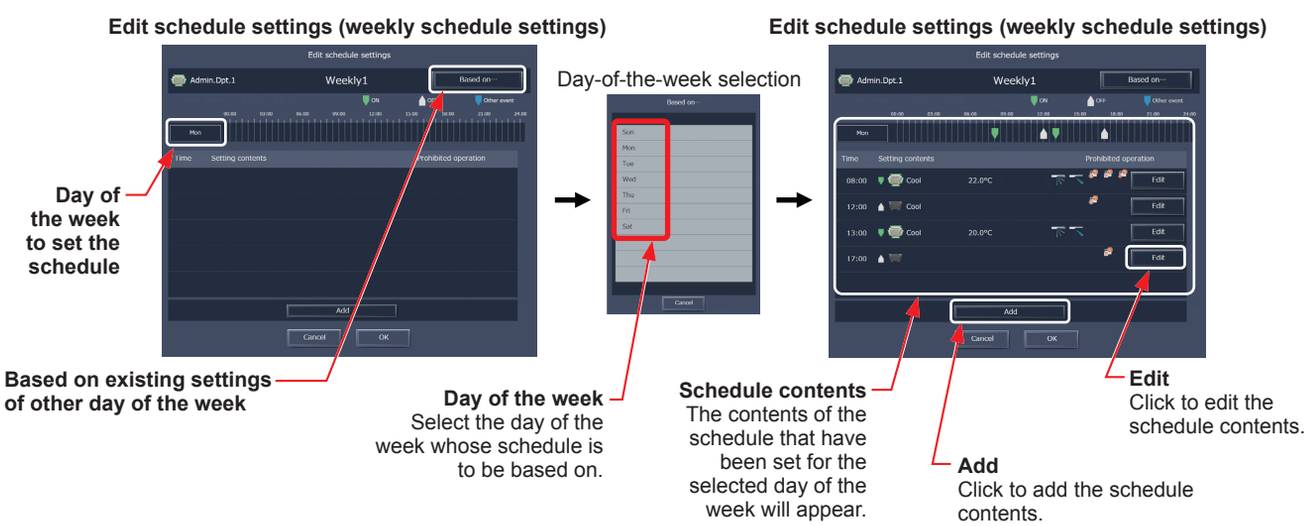
(3) The contents of the schedule that have been set for the selected pattern or the day of the week will appear in the Edit schedule settings screen.

(4) Add or change the schedule contents, if necessary.

• Annual schedule



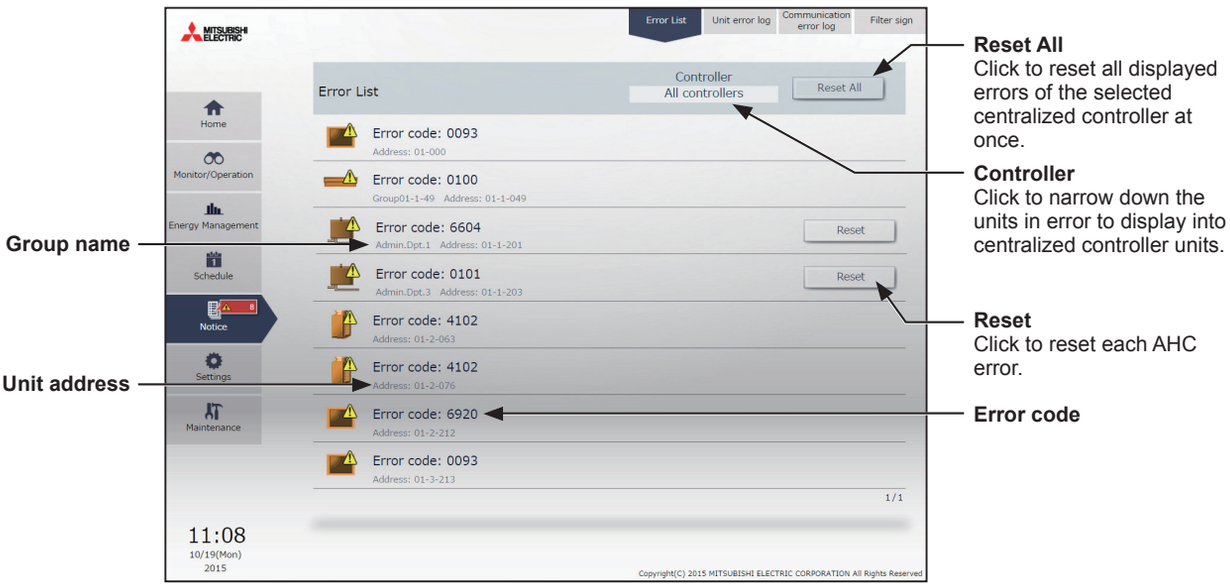
• Weekly schedule



2-4. Notice

2-4-1. Error List

Click [Notice] in the menu, and then click [Error List] to access the Error List screen.
A list of units that are currently malfunctioning will appear.



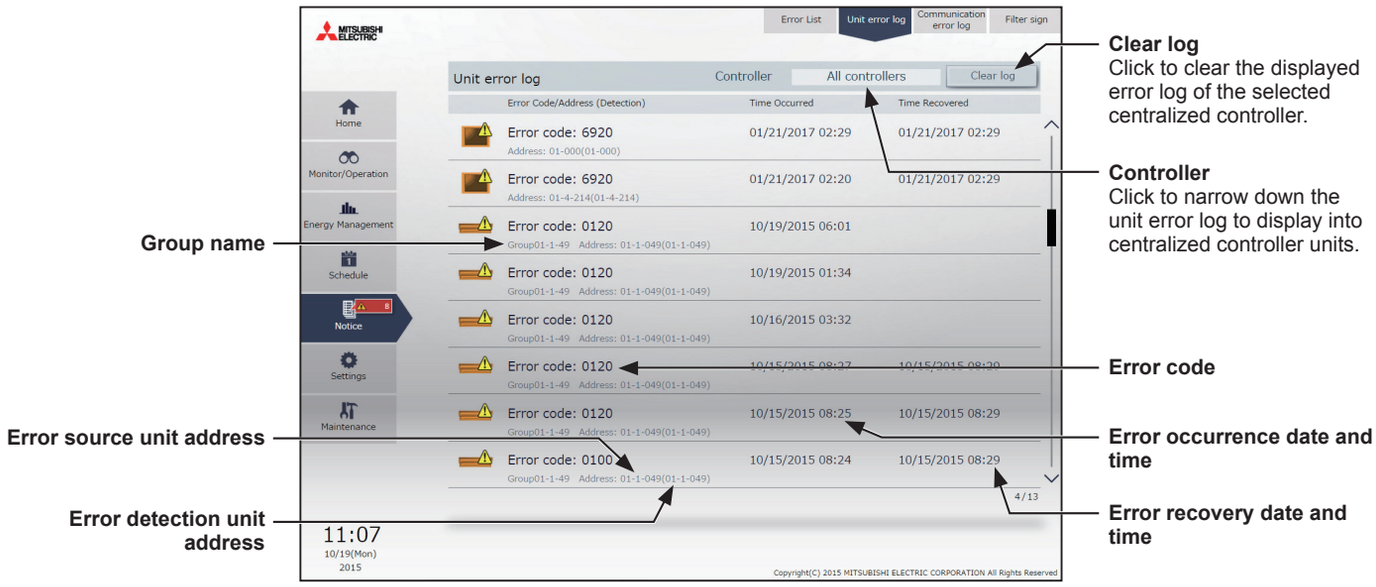
Item	Description
Controller	Display target units can be narrowed down by selecting a centralized controller.
Reset All	Click to reset the errors at once. Note: The units whose error has been reset will stop. Note: Only the errors of the centralized controller selected in [Controller] will be reset.
Group name	The name of the group that the unit in error belongs to will appear. Note: The group name will not be displayed if the unit in error is a unit such as an outdoor unit or a system controller.
Unit address	The centralized controller No. and address of the unit in error will appear. Note: For address display, refer to 4 “Name Display” in Chapter 1.
Error code	The error code that corresponds to the error will appear. Click the error code to display the definition. 
Reset	Click to reset each AHC error.

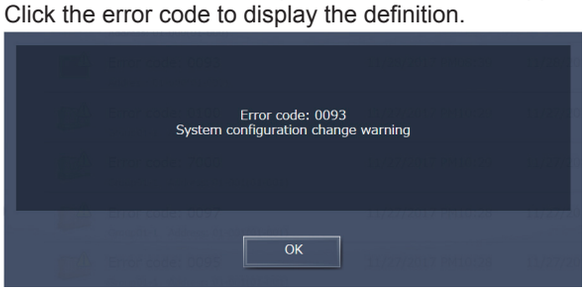
2-4-2. Unit error log

Click [Notice] in the menu, and then click [Unit error log] to access the Unit error log screen.

Note: The latest 64 unit errors will appear for each AE-200/AE-50/EW-50.

Note: Unit errors of all AE-200/AE-50/EW-50 controllers will appear in a list.



Item	Description
Controller	Display target error log can be narrowed down by selecting a centralized controller.
Clear log	Click to clear the displayed unit error log of the centralized controller selected in [Controller].
Error code	The error code that corresponds to the error will appear. Click the error code to display the definition. 
Error source unit address	The centralized controller No. and address of the unit in error will appear. Note: For address display, refer to 4 “Name Display” in Chapter 1.
Error detection unit address	The address of the unit that detected the error will appear.
Error occurrence date and time	The date and time when the error occurred will appear.
Error recovery date and time	The date and time when the error was resolved will appear.

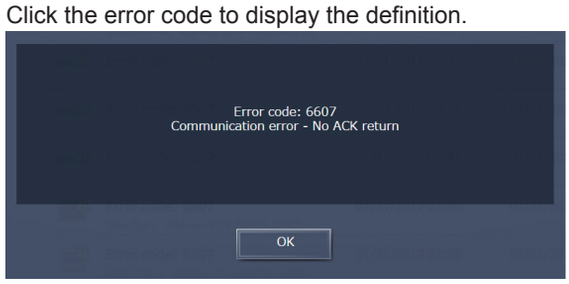
2-4-3. Communication error log

Click [Notice] in the menu, and then click [Communication error log] to access the Communication error log screen.

Note: The latest 64 communication errors are displayed for each AE-200/AE-50/EW-50.

Note: Communication errors of all AE-200/AE-50/EW-50 controllers will appear in a list.

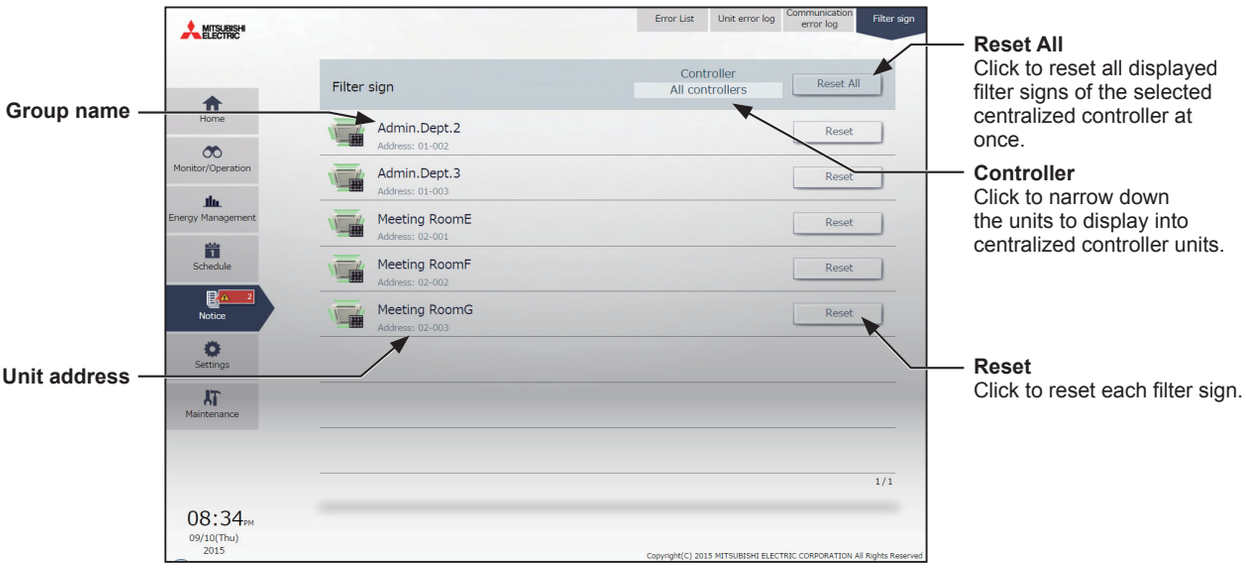


Item	Description
Controller	Display target error log can be narrowed down by selecting a centralized controller.
Clear log	Click to clear the displayed communication error log of the centralized controller selected in [Controller].
Error code	The error code that corresponds to the error will appear. Click the error code to display the definition. 
Error source unit address	The centralized controller No. and address of the unit in error will appear. Note: For address display, refer to 4 “Name Display” in Chapter 1.
Error detection unit address	The address of the unit that detected the error will appear.
Error occurrence date and time	The date and time when the error occurred will appear.
Error recovery date and time	The date and time when the error was resolved will appear.

2-4-4. Filter sign

A list of units whose filter sign is turned on can be displayed.

Click [Notice] in the menu, and then click [Filter sign] to access the Filter sign screen.



Item	Description
Controller	Display target unit groups can be narrowed down by selecting a centralized controller.
Group name	The name of the group that the unit whose filter sign is turned on belongs to will appear.
Unit address	The centralized controller No. and address of the unit whose filter sign is turned on will appear. Note: For address display, refer to 4 “Name Display” in Chapter 1.
Reset	Click to reset the filter sign of the group that the unit whose filter sign is turned on belongs to. Note: Reset the filter sign after cleaning the filter.
Reset All	Click to reset all filter signs of the centralized controller selected in [Controller] at once. Note: Reset the filter sign after cleaning the filter. Note: After the filter signs are reset, it takes up to an hour to clear the filter sign display on the local remote controllers. When the filter signs are reset from the local remote controllers, it takes up to an hour to clear the filter sign display on this screen.

2-5. Settings

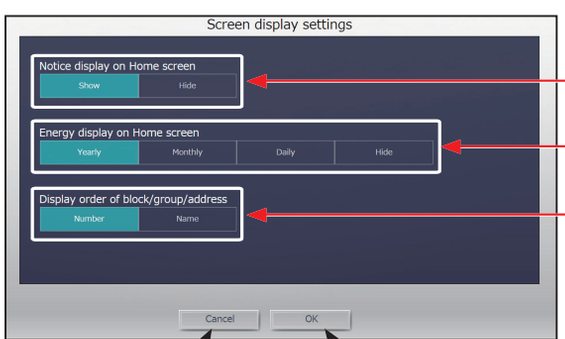
Click [Settings] in the menu to configure screen display settings, user registration, and other initial settings.



Setting item		Description
Screen display settings	Notice display on Home screen	Set whether or not to display “Notice” on the Home screen.
	Energy display on Home screen	Set whether or not to display “Energy Use Status” on the Home screen.
	Display order of block/group/ address	Set whether the unit groups are displayed on the screen in the order of their addresses or names.
User registration	Building manager	Set login ID and password for a building manager.
	Tenant manager	Set login IDs, passwords, and management unit groups for tenant managers.
	General user	Set login IDs, passwords, and management unit groups for general users.
Initial settings	Date and Time Settings	Set the date and time for the centralized controllers that are managed by the Integrated Centralized Control Web.
	License Registration	Register licences to activate various functions.

2-5-1. Screen display settings

In [Screen display settings], configure the display settings.



Notice display on Home screen
Set whether or not to display “Notice” on the Home screen.

Energy display on Home screen
Set whether or not to display “Energy Use Status” on the Home screen.

Display order of block/group/address
Set whether the unit groups are displayed on the screen in the order of their addresses or names.

Cancel
Click to cancel the settings and close the screen display settings screen.

OK
Click to save the settings.

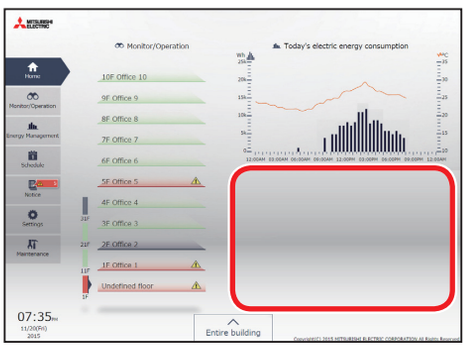
[1] Notice display on Home screen

Set whether or not to display “Notice” on the Home screen. The factory default setting is “Show.”

When set to “Show”



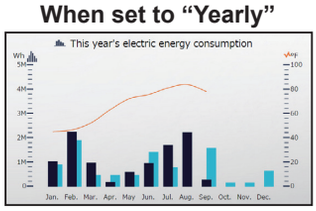
When set to “Hide”



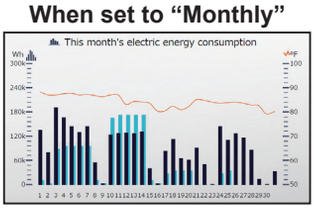
[2] Energy display on Home screen

Regarding the energy information display on the Home screen, select “Yearly,” “Monthly,” “Daily,” or “Hide.” The factory default setting is “Daily.”

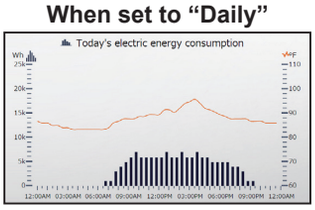
When set to “Yearly”



When set to “Monthly”



When set to “Daily”



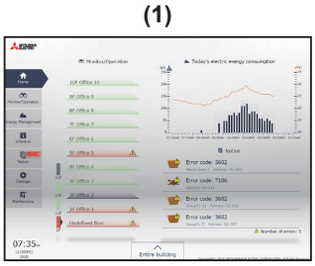
When set to “Hide”



Note: Home screen display will vary, depending on the “Notice display” and “Energy display” settings.

No.	“Notice display” setting	“Energy display” setting
(1)	Show	Show (Yearly/Monthly/Daily)
(2)	Show	Hide
(3)	Hide	Show (Yearly/Monthly/Daily)
(4)	Hide	Hide

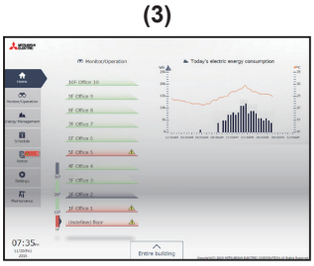
(1)



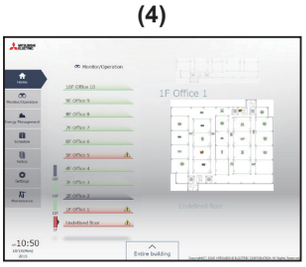
(2)



(3)



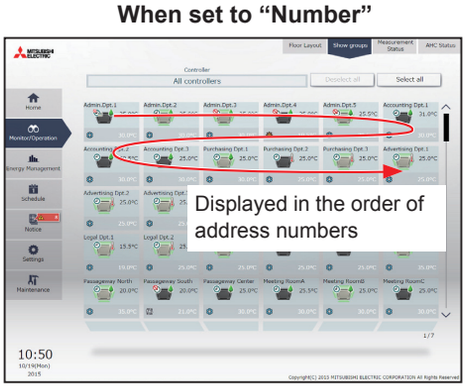
(4)



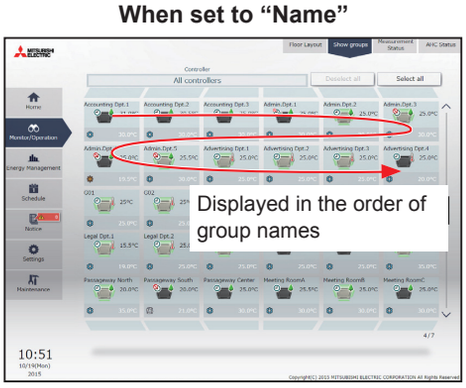
[3] Display order of block/group/address

Set whether the unit groups are displayed on the screen in the order of their addresses or names. The factory default setting is “Number.”

When set to “Number”



When set to “Name”



2-5-2. User registration

Login ID and password for a building manager can be set.

Also, login IDs, passwords, and management unit groups for tenant managers and general users can be set.

Note: A separate license is required to register tenant managers and general users.

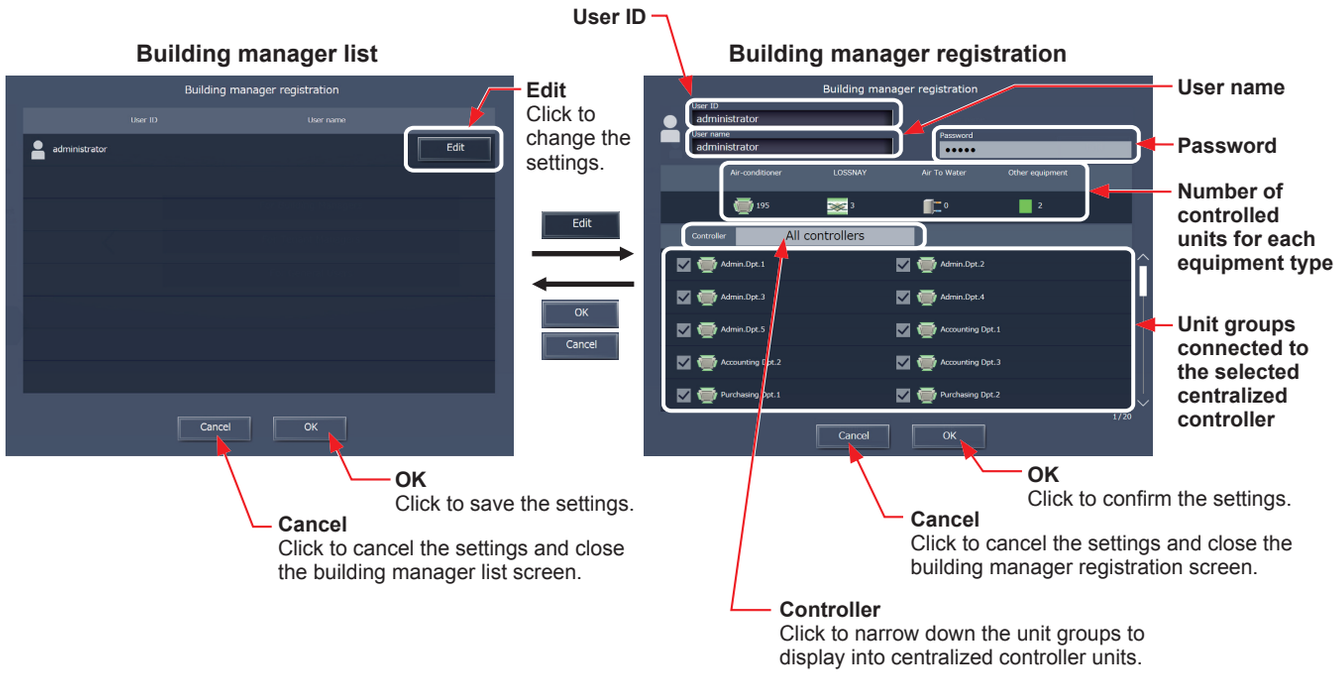


Note: The available functions differ depending on the user that logs in.

Function		Building manager	Tenant manager	General user
Home	Floor Layout	V	–	–
Monitor/Operation	Show groups	V	V	V
	Measurement Status	V	–	–
	HWHP	V	V	V
	AHC Status	V	–	–
	Advanced settings	V	V	V
Energy Management	Energy Use Status	V	V	–
	Ranking	V	V	–
	Target Value	V	V	–
	Peak Cut	V	–	–
Schedule	Schedule	V	V	–
	Weekly schedule date range settings	V	–	–
Notice	Error List	V	–	–
	Unit error log/Communication error log	V	–	–
	Filter sign	V	–	–
Settings	Screen display settings	V	–	–
	User registration	V	–	–
	Date and time settings	V	–	–
	License registration	V	–	–
Maintenance	Send Mail Log	V	–	–
	Outdoor Unit Status	V	–	–
	Free Contact	V	–	–
	Gas Refrigerant Amount Check	–	–	–
	CSV Output	V	–	–

[1] Building manager

In the building manager registration screen, user ID, user name, and password for a building manager can be set.



(1) Click [Edit] to display the building manager registration screen.

(2) In the building manager registration screen, enter the user ID, user name, and password for a building manager, and then click [OK].

Note: One building manager can be registered for an air conditioning system that are managed by the Integrated Centralized Control Web.

Note: The accessible unit groups for building managers cannot be specified because building managers can monitor and operate all unit groups.

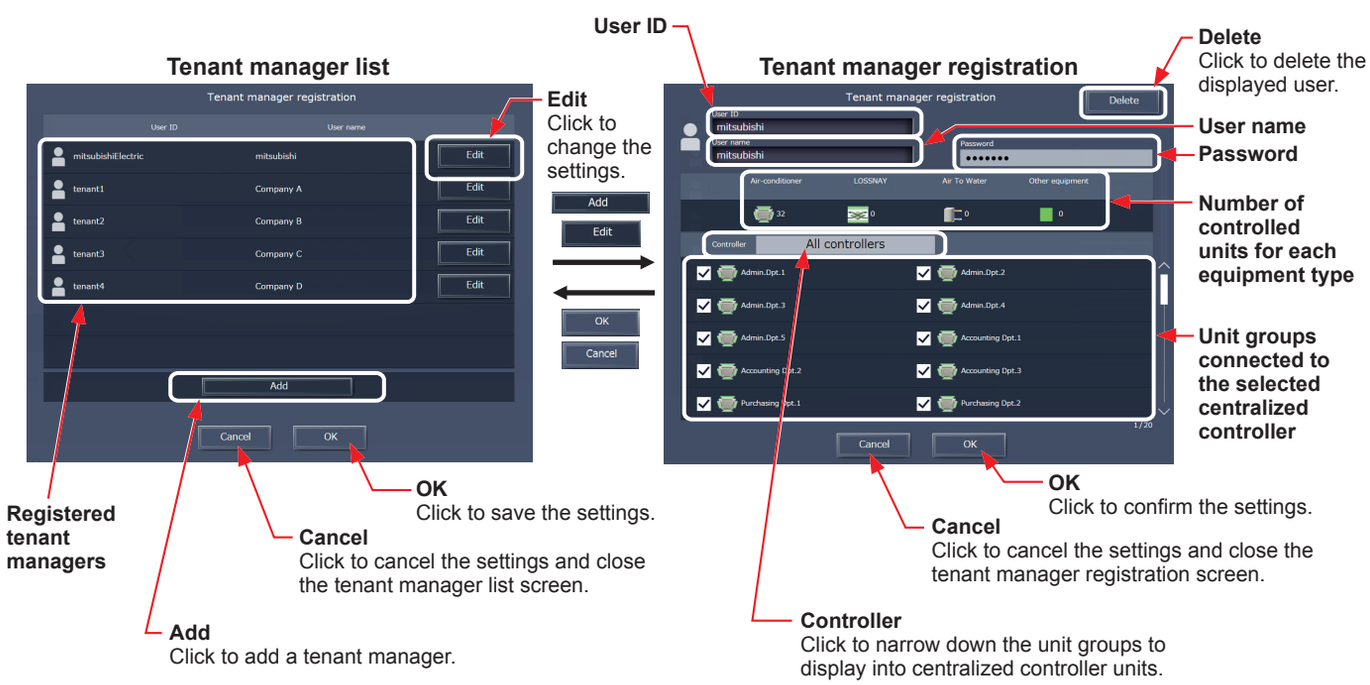
Note: The user name and password are case-sensitive. The password must be in 3 to 10 alphanumeric characters.

Note: User ID and password are required to log in.

[2] Tenant manager and general user

In the tenant manager registration screen, up to 200 tenant managers can be registered. In the general user registration screen, up to 2,000 general users can be registered. Set the unit groups that can be monitored and operated by each user.

Note: After creating a tenant manager and general user, contact the users with their user ID, password, and login URL.



(1) Click [Add] to register a new tenant manager/general user, or click [Edit] to change the existing tenant manager/general user settings. The user registration screen will appear.

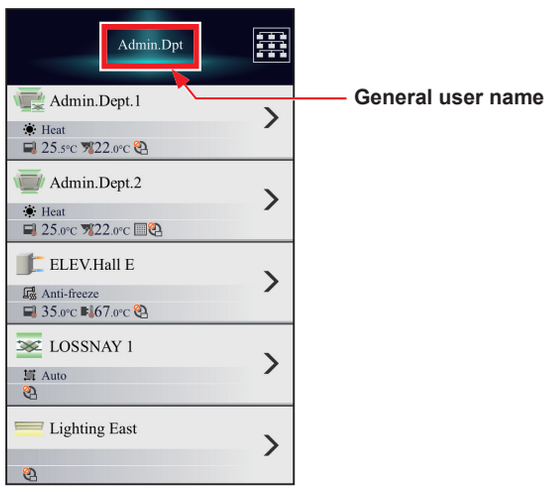
(2) In the user registration screen, enter the user ID, user name, and password, select the accessible unit groups, and then click [OK].

Note: Only the unit groups specified here will be accessible when logged in with tenant manager/general user privileges.

Note: The user name and password are case-sensitive. The password must be in 3 to 10 alphanumeric characters.

Note: User ID and password are required to log in.

Note: General user name will be displayed when a smartphone is used.



2-5-3. Initial settings

In [Initial settings], date and time settings can be configured and licenses can be registered.



Date and Time Settings
Set the date and time for the centralized controllers that are managed by the Integrated Centralized Control Web.

License Registration
Register licenses.

[1] Date and Time Settings

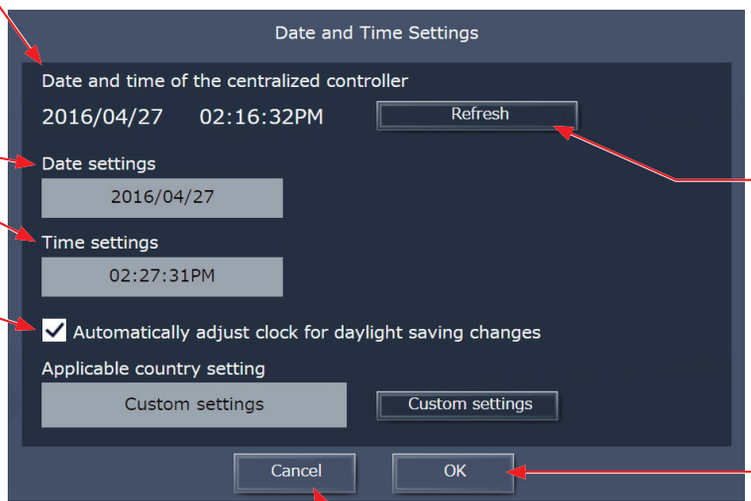
In [Date and Time Settings], the current date and time of the login destination centralized controller can be acquired and the current date and time can be set for all centralized controllers.
Enter the current date and time, and click [OK] to save the settings to the centralized controllers.

Date and time of the centralized controller
The current date and time of the login destination centralized controller appear.

Date settings
Enter the current date.

Time settings
Enter the current time.

Daylight saving time setting
Click to enable the daylight saving time setting.



Refresh
Click to acquire the current date and time of the login destination centralized controller.

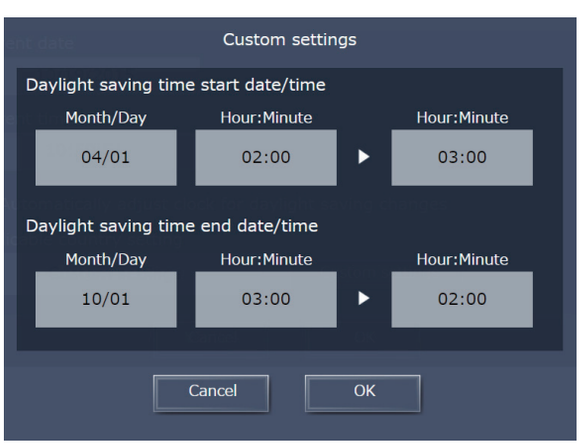
OK
Click to save the settings.

Cancel
Click to cancel the settings and close the date and time settings screen.

(1) Enter the current date and time.

(2) To adjust the daylight saving time automatically, check the [Automatically adjust clock for daylight saving changes] checkbox, click [Custom settings] on the left, and select the applicable country.

If the applicable country is not there, select [Custom settings] on the right instead to open the Custom settings screen, and configure the daylight saving time setting.



Note: The date and time set on this screen will be sent to all AE-200/AE-50/EW-50 controllers that are managed by the Integrated Centralized Control Web, and be reflected to all air conditioning units connected to them.

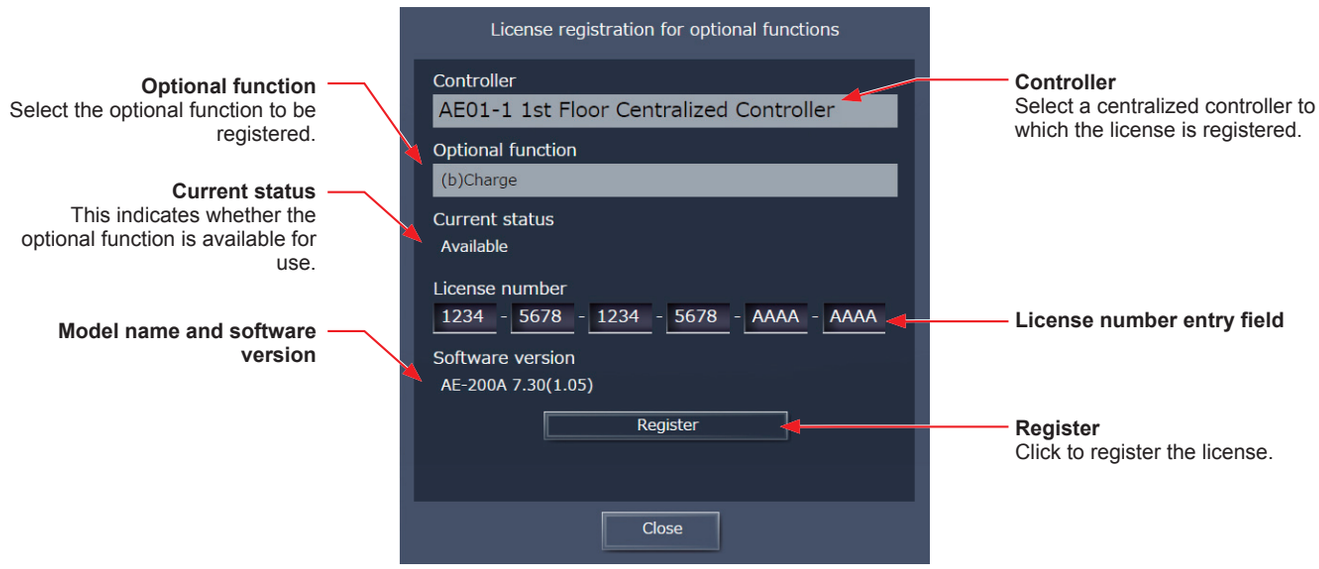
Note: Schedule settings are sent to the AE-200/AE-50/EW-50, based on the time of the PC that uses the Integrated Centralized Control Web.
If the current time is moved forward on this screen and the time differs from the PC time, the operation that was scheduled to take place during the time that was skipped will not be performed.

Note: When the daylight saving time is set, time difference may occur between the centralized controllers AE-200/AE-50/EW-50 and the PC, adversely affecting the schedule settings and energy management function. When setting the daylight saving time, be sure to set the same time for the PC time.

[2] License Registration

In [License Registration], register licenses for optional functions.
Please ask your dealer for how to purchase a license for optional functions.

Note: The license registration is required for all connected centralized controllers AE-200/AE-50/EW-50. Switch the centralized controller in [Controller] to register the license respectively.



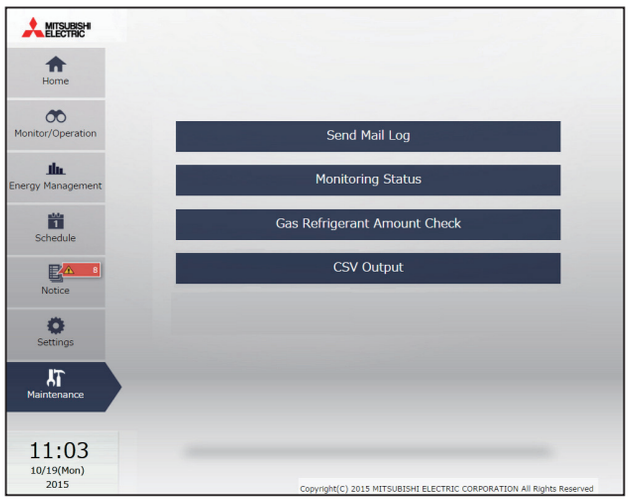
(1) In [Optional function], select the optional function to be registered.
The current availability will appear in the “Current status” section.

(2) In [License number entry field], enter the license number and click [Register].
In “Current status”, “Available” will appear.
If the registration is unsuccessful, verify that the selected optional function and the license number are correct.

Note: Alphabet “O” and “I” are not used for license number.

2-6. Maintenance

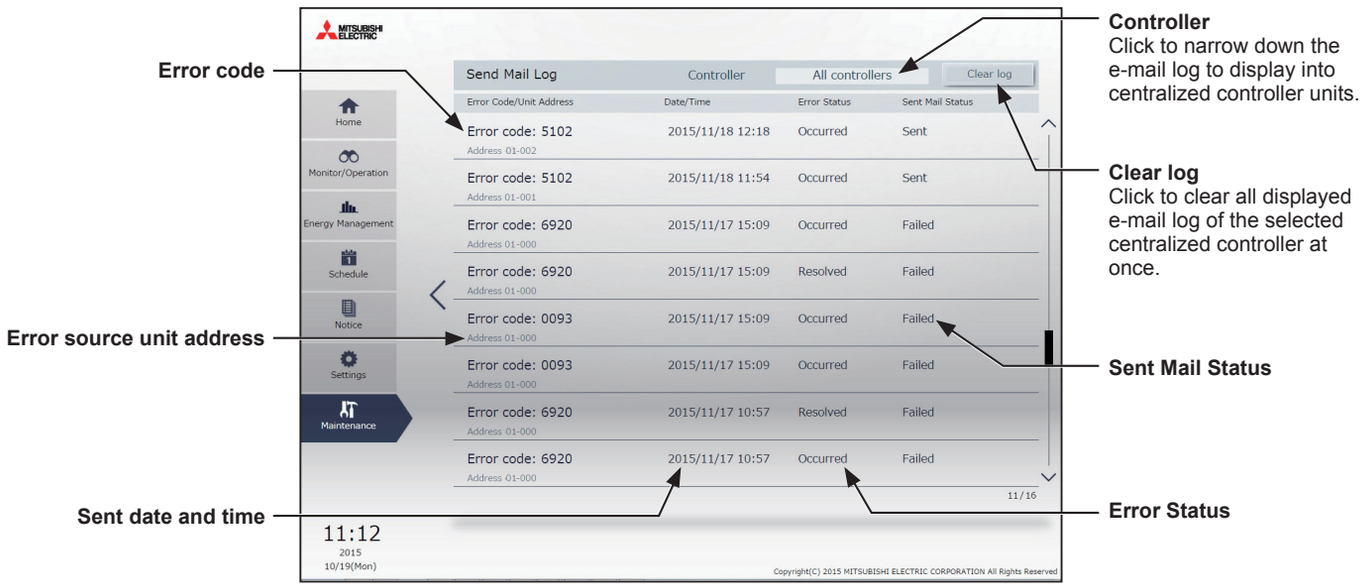
Click [Maintenance] in the menu to check various maintenance settings.



Setting item		Description
Send Mail Log		A list of error notification e-mail that have been sent can be checked. (E-mail settings must be configured in the initial settings.)
Monitoring Status	Outdoor Unit Status	Capacity value and refrigerant discharge/suction pressures of outdoor units can be checked.
	Free Contact	Input/output status of free contacts on the indoor units can be checked.
Gas Refrigerant Amount Check		Gas refrigerant amount can be checked.
CSV Output		Operation data of air conditioning units for each centralized controller can be output in a CSV format. Note: This button is not displayed on a tablet.

2-6-1. Send Mail Log

In [Send Mail Log], a list of error notification e-mail that have been sent can be checked.
Error notification e-mail function is the function to send the error information to the specified e-mail addresses.
To use this function, e-mail settings must be configured in the initial settings. Refer to the Instruction Book (Initial Settings) for details.



Item	Description
Controller	Display target e-mail logs can be narrowed down by selecting a centralized controller.
Clear log	Click to clear the e-mail log. Note: Only the e-mail log of the centralized controller selected in [Controller] will be reset. To clear all logs, select “All controllers.”
Sent date and time	The date and time when the e-mail was sent will appear.
Error source unit address	The centralized controller No. and address of the error source unit will appear. Note: For address display, refer to 4 “Name Display” in Chapter 1. Note: When an error occurs on the general equipment connected via DIDO controller (PAC-YG66DCA), the address of the DIDO controller will appear.
Error code	The error code that corresponds to the error will appear.
Error Status	Occurred: The e-mail was sent when an error occurred. Resolved: The e-mail was sent when the error was resolved.
Sent Mail Status	Sent: The e-mail was successfully sent. Failed: The e-mail failed to be sent.

2-6-2. Monitoring Status

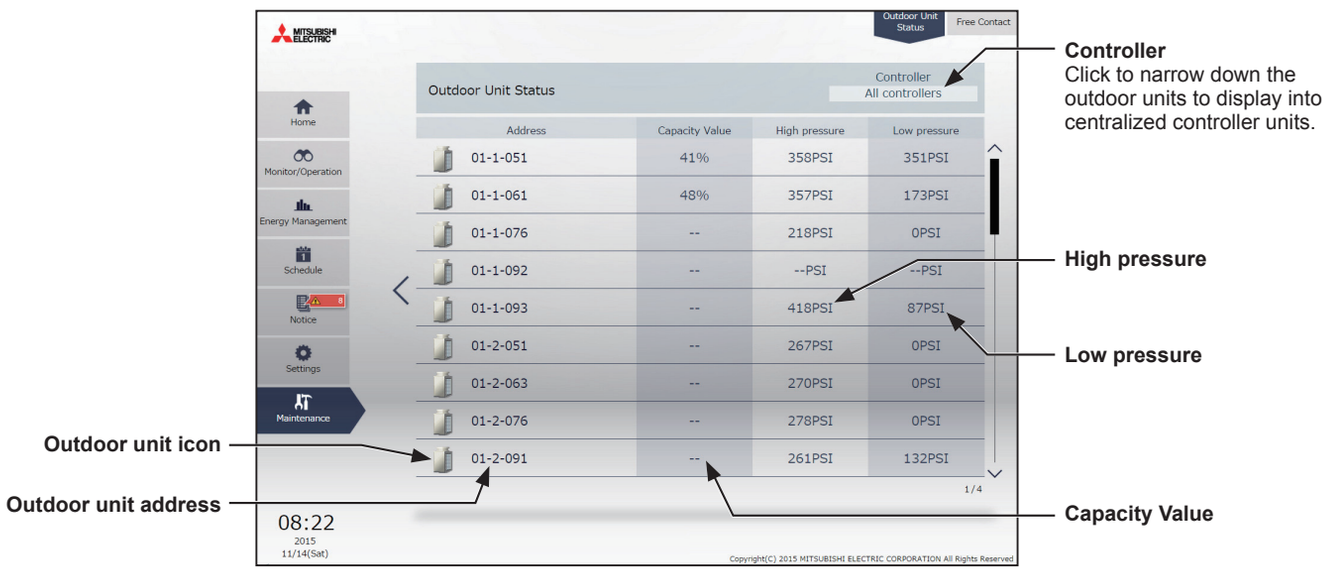
In [Monitoring Status], “Outdoor Unit Status” and “Free Contact” can be checked.

[1] Outdoor Unit Status

In the Outdoor Unit Status screen, operators can check the capacity value, high pressure, and low pressure of each outdoor unit.

Click [Monitoring Status], and then click [Outdoor Unit Status].

Note: If AE-200/AE-50/EW-50 is started up with the outdoor units turned off, outdoor unit status may not appear. In this case, restart the AE-200/AE-50/EW-50.



Item	Description
Controller	Display target outdoor units can be narrowed down by selecting a centralized controller.
Capacity Value	The capacity value of the compressor on a given outdoor unit will appear. Note: The capacity value of a sub outdoor unit will not appear.
High Pressure	Refrigerant discharge pressure of the compressor on a given outdoor unit will appear.
Low Pressure	Refrigerant suction pressure of the compressor on a given outdoor unit will appear.
Outdoor unit icon	 : Normal  : Communication error or unit error
Outdoor unit address	The centralized controller No. and address of the outdoor unit will appear. Note: For address display, refer to 4 “Name Display” in Chapter 1.

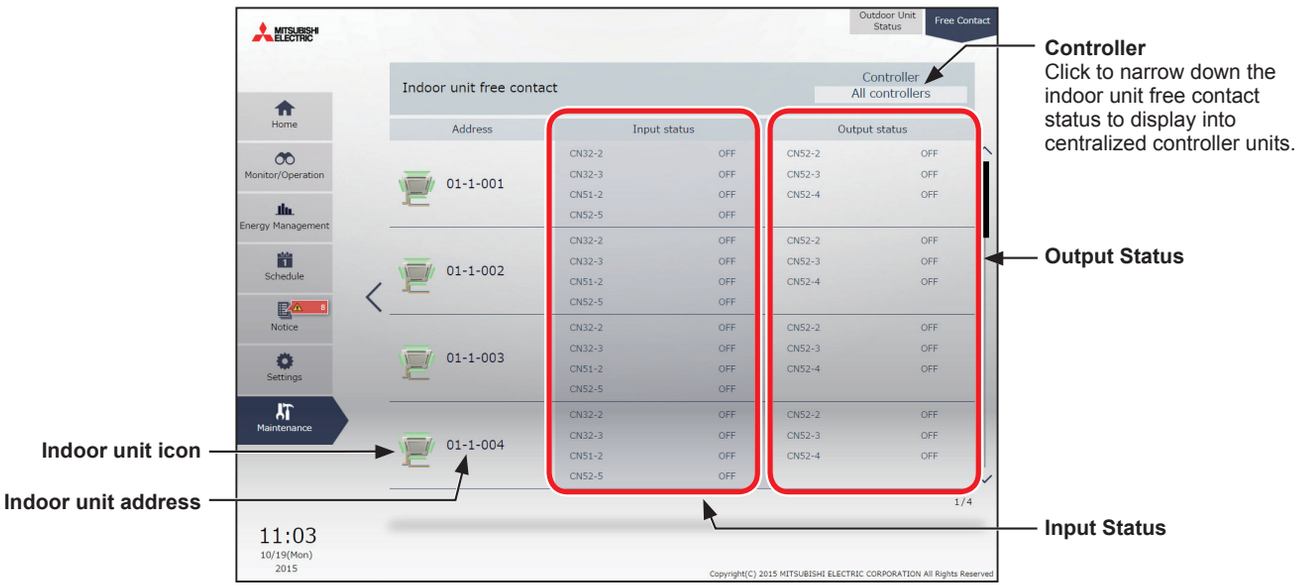
* When a communication error occurs, “--” will appear in the Capacity Value, High Pressure, and Low Pressure value fields.
* If the outdoor unit is a PUMY model of City Multi S-series, “--” will appear in the Capacity Value, High Pressure, and Low Pressure value fields.
* If the outdoor unit does not support a capacity display, “--” will appear in the Capacity Value field.

[2] Free Contact

The input/output status of free contacts on the indoor units can be checked.

Click [Monitoring Status], and then click [Free Contact].

Note: The indoor unit free contact settings must be made with the dipswitches on the indoor unit.



Item	Description
Controller	Display target indoor unit free contact status can be narrowed down by selecting a centralized controller.
Input Status	The input status (ON or OFF) of the free contacts CN32-2, CN32-3, CN51-2, and CN52-5 on the indoor unit will appear.
Output Status	The output status (ON or OFF) of the free contacts CN52-2, CN52-3, and CN52-4 on the indoor unit will appear.
Indoor unit icon	: Normal : Communication error or unit error
Indoor unit address	The centralized controller No. and address of the indoor unit will appear. Note: For address display, refer to 4 “Name Display” in Chapter 1.

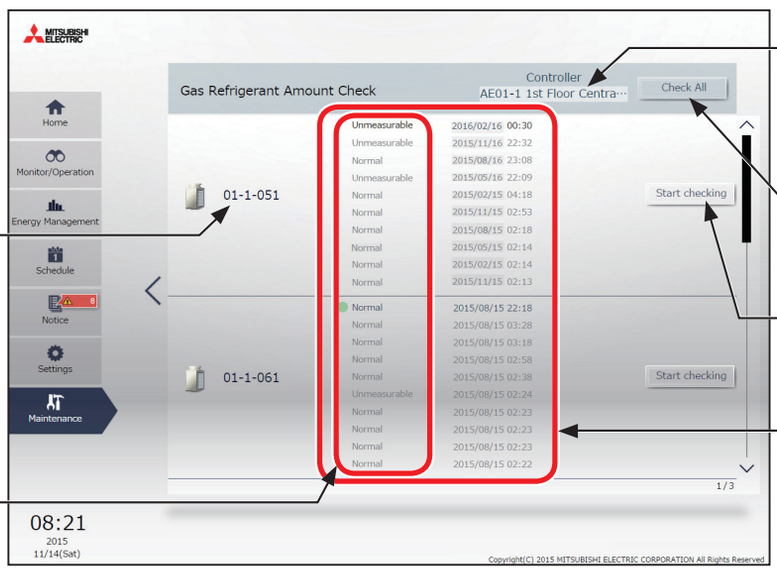
2-6-3. Gas Refrigerant Amount Check

On the Gas Refrigerant Amount Check screen, operators can check the outdoor units for proper gas refrigerant charge.

Note: Only the outdoor units that support the Gas Refrigerant Amount Check function will appear on the screen.

Note: During the Gas Refrigerant Amount Check, outdoor units will operate in a specific mode. The check will take between 30 minutes and 1 hour.

Note: Refer to the outdoor unit installation manual as regards the inspection methods right after installation of outdoor unit and when carrying out maintenance, as well as cautions.



M-NET address of the outdoor unit

Check Result
Normal, Low, or Unmeasurable will appear.

Controller
Click to narrow down the units to display into centralized controller units.

Check All
Click to start checking the gas refrigerant charge on all displayed outdoor units.

Start checking
Click to start checking the gas refrigerant charge for a given outdoor unit.

Log
Up to the last 10 check logs will appear. The date and time when each check ended and its check result will appear.

(1) To start a check for all outdoor units, click [Check All].
To start a check for a given outdoor unit, click [Start checking] in the row of the outdoor unit to be checked.
The [Start checking] button will change to [Cancel checking] button when clicked. To stop the check, click [Cancel checking].

(2) The check will take between 30 minutes and 1 hour. Upon completion, check result will appear.
Normal: Gas refrigerant charge is appropriate.
Low: Gas refrigerant charge is low.
Unmeasurable: Gas refrigerant charge cannot be measured.

Note: The screen can be closed before a check is completed. The check results will be displayed next time this screen is opened.

Note: When “Low” is displayed in Check Result, contact your dealer or a manufacturer-specified service company.

2-6-4. CSV Output

Operation data, such as apportioning parameters, metering device data, and energy management data, can be output in a CSV format from the CSV Output screen.

Important

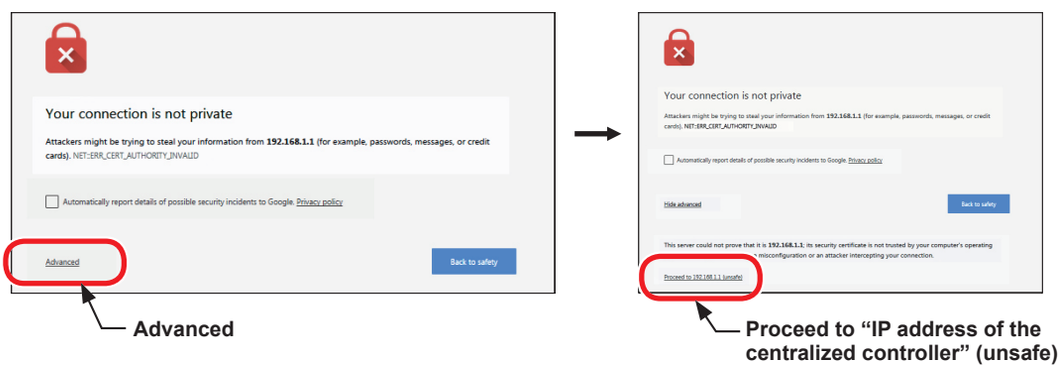
- File names, as well as date formats, delimiter characters, decimal separators, temperature units (°C, °F), MCP (PI controller) measurement units, and MCT (AI controller) measurement units (temperature, humidity) within the files output as CSV will use formats set as initial settings. Refer to the Instruction Book (Initial Settings) for settings methods.
- Operation data can be output for each centralized controller. Outputting operation data for all centralized controllers at once is not possible.
- Output from tablet is not possible.

Note: Use Microsoft® Excel® 2007 or later to read a CSV file.

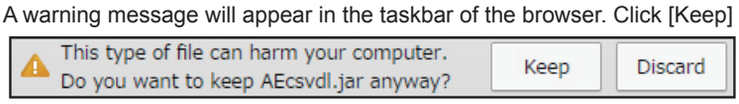
(1) Click [CSV Output] to download a tool “CSV File Download Tool” for carrying out CSV output from AE-200/AE-50/EW-50.

Note: Depending on the browser, a warning message may appear when downloading the tool for the first time. The following is a download method when Google Chrome is used.

1. Click [CSV Output] to display the screen below. Click [Advanced].
2. Click [Proceed to “IP address of the centralized controller” (unsafe)].



3. A warning message will appear in the taskbar of the browser. Click [Keep] to download the tool.



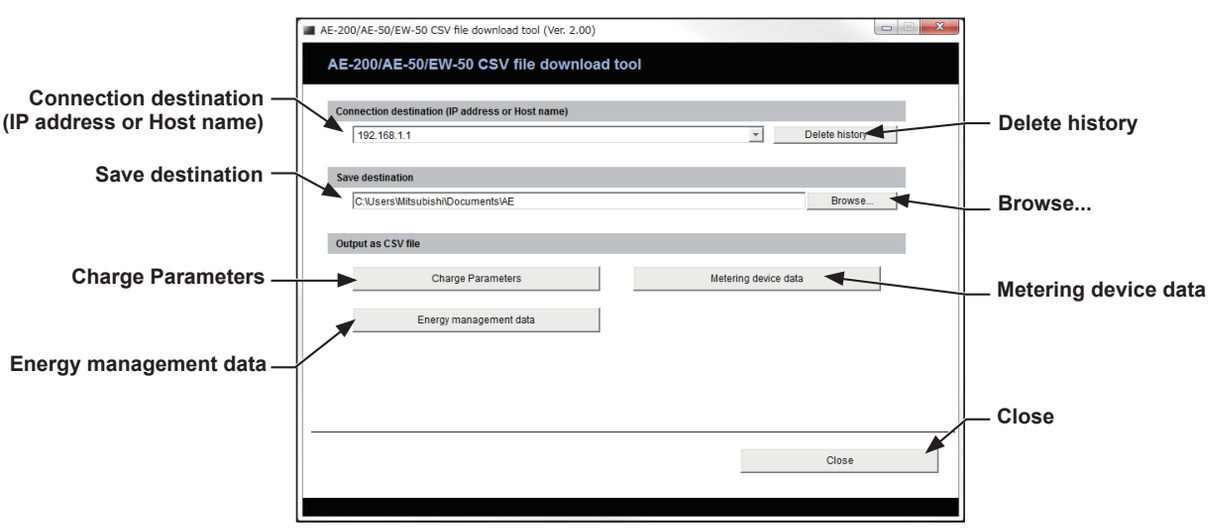
(2) Execute the saved “AEcsvdl.jar” to start up the CSV File Download Tool.

Note: If the “AEcsvdl.jar” file is associated with other applications, the CSV File Download Tool will not start up. Remove the association.

Note: If [Keep] is clicked, the “AEcsvdl.jar” file will be saved in the specified folder. In this case, double clicking the file will also start the CSV File Download Tool.

Note: The charge parameters and metering device data can be output only when the “Charge” license is registered.

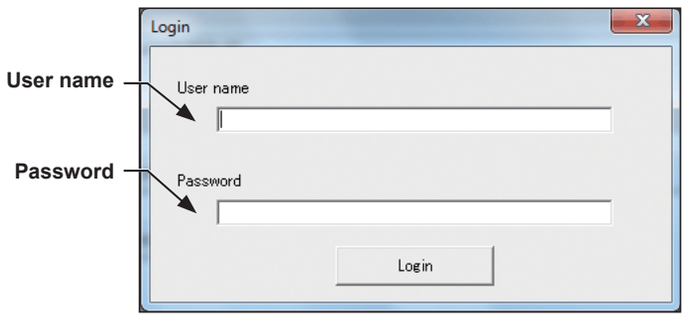
CSV File Download Tool



(3) Specify the connection destination and the save destination, and click [Charge Parameters], [Metering device data], or [Energy management data].
A login screen will appear. Enter the user name and the password, and click [Login].

Note: Maintenance users set on the AE-200/AE-50/EW-50 can login. For maintenance users, refer to the Instruction Book (Initial Settings) for details.

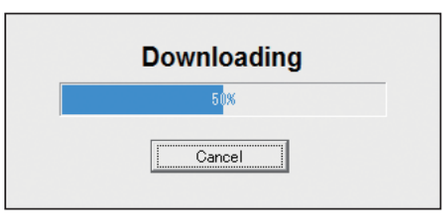
Note: The factory default user name is “initial” and password is “init”.



(4) The selected data will be output in a CSV format to the specified save destination. Percentages of process completion will appear.

Note: Once you have successfully logged in, there is no need to login again every time you download data as long as the CSV File Download Tool remains open.

Note: It may take a few minutes to complete the download, depending on the data volume.



Item	Description
Connection destination	Enter the IP address or host name of the AE-200/AE-50/EW-50 as a destination. The last input value will appear every time the CSV File Download Tool is started up. The last 20 input values will appear in the pulldown menu. Note: If there is no history, “192.168.1.1” will appear.
Delete history	Deletes all history in the pulldown menu.
Save destination	Specify the destination to save the CSV file. Note: The default destination will be “My Documents” folder in the login user folder.
Browse...	Click to display a dialog to select a folder where the CSV file will be saved.

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Charge Parameters</td><td>
Click to download a CSV file of the charge parameters.
■ File name
“ChargeParameter”_[yyyy]-[mm]-[dd]“A”[Indoor unit address]-[Time period (1–5)].csv
Note: Time periods 1 through 5 can only be set from TG-2000A or Initial Setting Tool. When shipped from the factory, only Time period 1 is settable.
■ File output destination
[Save destination]\[Serial No.]\“OperationalData”\“ChargeParameters”\[Date]
■ File format
<table>
<tr><th>Row</th><th>Item</th><th>Format</th></tr>
<tr><td>1st</td><td>File Type</td><td>201</td></tr>
<tr><td>2nd</td><td>Data range</td><td>Start date + “–” + End date</td></tr>
<tr><td>3rd</td><td>Indoor unit address</td><td>“Address” + M-NET address</td></tr>
<tr><td>4th</td><td>Item</td><td>“Date,SaveValue,ThermoTime,FanTime,SubHeaterTime”</td></tr>
<tr><td>5th–66th</td><td>Data *1*2*3</td><td>Date, Capacity-save value (min), Thermo-ON time (min), Fan operation time (min), Sub-heater-ON time (min) *4</td></tr>
</table>
*1 Each value is the cumulative value between the start date and the end date.
*2 The value will not appear if the data does not exist.
*3 Each file contains the data of up to 62 days.
*4 Even if the indoor unit is not equipped with a sub heater, “Sub-heater-ON time” is counted when the sub-heater-ON conditions are met, not when the sub heater actually turns on.
■ File sample
201
12/19/2014-1/10/2015
Address 31
Date,SaveValue,ThermoTime,FanTime,SubHeaterTime
12/19/2014,1258,0,465,0
12/20/2014,1260,0,468,0
12/21/2014,1262,0,472,0
12/22/2014,1264,0,477,0
12/23/2014,1266,0,490,0
:
01/10/2015,2058,0,1013,0
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Metering device data</td><td>
Click to download a CSV file of the metering device data.

■ File name
<When a PI controller (PAC-YG60MCA) is used>
“ChargeParameter”_[yyyy]-[mm]-[dd]“MCPA”[PI controller address]-[Time period (1–5)].csv

<When a built-in Pulse Input (PI) is used>
“ChargeParameter”_[yyyy]-[mm]-[dd]“MCP”-[Time period (1–5)].csv

Note: Time periods 1 through 5 can only be set from TG-2000A or Initial Setting Tool. When shipped from the factory, only Time period 1 is settable.

■ File output destination
[Save destination]\[Serial No.]\“OperationalData”\“ChargeParameters”\[Date]

■ File format

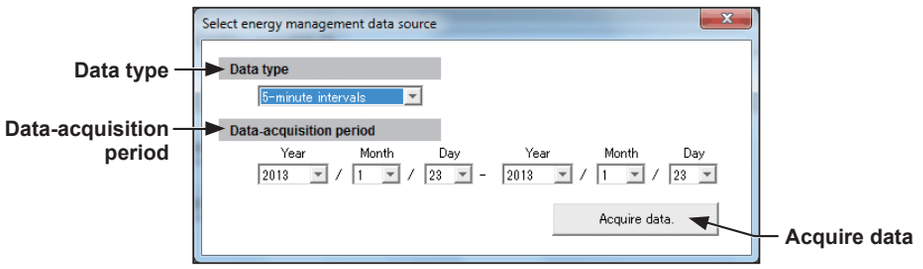
<table>
<tr><th>Row</th><th>Item</th><th>Format</th></tr>
<tr><td>1st</td><td>File Type</td><td>202</td></tr>
<tr><td>2nd</td><td>Data range</td><td>Start date + “–” + End date</td></tr>
<tr><td>3rd</td><td>MCP</td><td><When a PI controller (PAC-YG60MCA) is used>
“MCP” + M-NET address + “–” + Time period (1–5)

<When a built-in Pulse Input (PI) is used>
“MCP” + “–” + Time period (1–5)</td></tr>
<tr><td>4th</td><td>Item</td><td>“No.,Date,Count value(Ch1),Count value(Ch2),Count value(Ch3),Count value(Ch4)”</td></tr>
<tr><td>5th–66th</td><td>Data *1*2*3*4</td><td><When a PI controller (PAC-YG60MCA) is used>
MCP address + Time period, Date, MCP 1, MCP 2, MCP 3, MCP 4

<When a built-in Pulse Input (PI) is used>
Time period, Date, MCP 1, MCP 2, MCP 3, MCP 4</td></tr>
</table>
*1 Each value is the cumulative value between the start date and the end date.
*2 Each value is between 0.00 and 999999.99. If the value exceeds the maximum value, it will wrap around to zero.
*3 The value will not appear if the data does not exist.
*4 Each file contains the data of up to 62 days.

■ File sample

202
12/19/2013-1/10/2014
MCP 50-1
No.,Date,Count value(Ch1),Count value(Ch2),Count value(Ch3),Count value(Ch4)
501,12/19/2013,190887.43,872411.43,227424.88,55515.50
501,12/20/2013,190899.16,872420.12,227428.63,55526.70
501,12/21/2013,190905.22,872442.23,227435.74,55537.90
501,12/22/2013,190910.38,878449.77,227448.19,55549.84
:
501,01/10/2014,200014.38,87950.36,227925.19,60111.63
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Energy management data</td><td>
Click to download a CSV file of the energy management data. The “Select energy management data source” window will pop up. Select a data type and specify the data-acquisition period to acquire the data.
Refer to section 2-6-4 “CSV Output” [1] “Energy Management Data List” for details about the data that can be output in a CSV format.


<table>
<tr><td>Data type</td><td>Select [5-minute intervals], [30-minute intervals], [1-month intervals], [1-day intervals], or [1-year intervals].</td></tr>
<tr><td>Data-acquisition period</td><td>Specify the date period to acquire the data.
Note: The date range that can be specified will vary, depending on the item selected in the [Data type] field.
Note: If [1-month intervals] or [1-year intervals] is selected in the [Data type] field, the data-acquisition period cannot be specified.
Note: Only the data for the period during which the AE-200/AE-50/EW-50 was powered on will be output. The data for the period during which the AE-200/AE-50/EW-50 was powered off will not be output.</td></tr>
<tr><td>Acquire data</td><td>Click to output the CSV file based on the selected criteria.</td></tr>
</table>
■ File name
Data type: 5-minute intervals
“EnergyManagement”_“5MIN”_[YYYY]-[MM]-[DD]_[yyyy]-[mm]-[dd].csv
Data type: 30-minute intervals
“EnergyManagement”_“30MIN”_[YYYY]-[MM]-[DD]_[yyyy]-[mm]-[dd].csv
Data type: 1-day intervals
“EnergyManagement”_“1DAY”_[YYYY]-[MM]-[DD]_[yyyy]-[mm]-[dd].csv
Data type: 1-month intervals
“EnergyManagement”_“1MONTH”_[YYYY]-[MM]_[yyyy]-[mm].csv
Data type: 1-year intervals
“EnergyManagement”_“1YEAR”_[YYYY]-[yyyy].csv
<table>
<tr><th>File-name contents</th><th>Format</th></tr>
<tr><td>[YYYY]</td><td>Start year</td></tr>
<tr><td>[MM]</td><td>Start month</td></tr>
<tr><td>[DD]</td><td>Start date</td></tr>
<tr><td>[yyyy]</td><td>End year</td></tr>
<tr><td>[mm]</td><td>End month</td></tr>
<tr><td>[dd]</td><td>End date</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Energy management data</td><td>
■ File output destination
[Save destination]\[Serial No.]\“OperationalData”\“EnergyManagement2”\[Date]

Note: If the AE-200/AE-50/EW-50 software version is before Ver. 7.2, the file output destination is [Save destination]\[Serial No.]\“OperationalData”\“EnergyManagement”\[Date].

■ File format
[Data type: 5-minute intervals]
<table>
<tr><th>Row</th><th>Item</th><th>Format</th></tr>
<tr><td>1st</td><td>File Type</td><td>501</td></tr>
<tr><td>2nd</td><td>Data range</td><td>Start date + “–” + End date</td></tr>
<tr><td>3rd</td><td>Item *1*2</td><td>“DateTime,Data1(51),...Data1(100),Data2(51),...Data2(100),
Data3(51),...Data3(100),OutdoorTemp(51),...OutdoorTemp(100),
CoolSetTemp(1),...CoolSetTemp(50),HeatSetTemp(1),...HeatSetTemp(50),
RoomTemp(1),...RoomTemp(50),MCP1(0),...MCP1(50),
MCP2(0),...MCP2(50),MCP3(0),...MCP3(50),MCP4(0),...MCP4(50),
MCT1(1),...MCT1(50),MCT2(1),...MCT2(50),
AHC1(201),...AHC1(250),AHC2(201),...AHC2(250),
MCP1,MCP2,MCP3,MCP4*3”</td></tr>
<tr><td>4th</td><td>Measurement unit *6</td><td>
<table>
<tr><th>Item</th><th>Unit</th></tr>
<tr><td>Data1, Data2, Data3</td><td>-</td></tr>
<tr><td>OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp</td><td>ºC, ºF</td></tr>
<tr><td>MCP (PI controller/Built-in Pulse Input (PI))</td><td>kWh, m3, MJ, Blank</td></tr>
<tr><td>MCT (AI controller)</td><td>ºC, ºF, %</td></tr>
<tr><td>AHC (Advanced HVAC CONTROLLER)</td><td>ºC, ºF</td></tr>
</table>
</td></tr>
<tr><td>5th–17860th</td><td>Data *1*2*4*5</td><td>Date and time, Data 1 (51), ... (100), Data 2 (51), ... (100), Data 3 (51), ... (100),
Outdoor temperature (51), ... (100),Cooling set temperature (1), ... (50),
Heating set temperature (1) , ... (50),Room temperature (1), ... (50),
MCP 1 (1), ... (50), MCP 2 (1), ... (50), MCP 3 (1), ... (50), MCP 4 (1), ... (50),
MCT 1 (1), ... (50), MCT 2 (1), ... (50),AHC temperature 1 (201), ... (250),
AHC temperature 2 (201), ... (250), MCP 1, MCP 2, MCP 3, MCP 4</td></tr>
</table>
*1 The numbers shown after “MCP” and “MCT” indicate channel No.
*2 The numbers in the parentheses indicate M-NET addresses.
*3 The measurement value of the built-in Pulse Input (PI) to AE-200/AE-50/EW-50 is only MCP1–MCP4, and the addresses are not displayed.
*4 The value will not appear if the data does not exist.
*5 Each file contains up to 17856 data (2-month worth of data).
*6 The measurement units are displayed only when an air conditioning unit or measurement device is connected.
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Energy management data</td><td>
[Data type: 30-minute intervals]
<table>
<tr><th>Row</th><th>Item</th><th>Format</th></tr>
<tr><td>1st</td><td>File Type</td><td>502</td></tr>
<tr><td>2nd</td><td>Data range</td><td>Start date + “–” + End date</td></tr>
<tr><td>3rd</td><td>Item *1*2</td><td>“DateTime,Data1(51),...Data1(100),Data2(51),...Data2(100),
Data3(51),...Data3(100),OutdoorTemp(51),...OutdoorTemp(100),
CoolSetTemp(1),...CoolSetTemp(50),HeatSetTemp(1),...HeatSetTemp(50),
RoomTemp(1),...RoomTemp(50),FanTime(1),...FanTime(50),
CoolTime(1),...CoolTime(50),HeatTime(1),...HeatTime(50),
ThermoTime(1),...ThermoTime(50),CoolThermoTime(1),...CoolThermoTime(50),
HeatThermoTime(1),...HeatThermoTime(50),
ThermoCount(1),...ThermoCount(50),
SaveValue(1),...SaveValue(50),CoolSaveValue(1),...CoolSaveValue(50),
HeatSaveValue(1),...HeatSaveValue(50),
ApporionedElectricEnergy(1),...ApporionedElectricEnergy(50),
MCP1(0),...MCP1(50),MCP2(0),...MCP2(50),MCP3(0),...MCP3(50),
MCP4(0),...MCP4(50),MCT1(1),...MCT1(50),MCT2(1),...MCT2(50),
AHC1(201),...AHC1(250),AHC2(201),...AHC2(250),
MCP1,MCP2,MCP3,MCP4*3”</td></tr>
<tr><td>4th</td><td>Measurement unit *8</td><td>
<table>
<tr><th>Item</th><th>Unit</th></tr>
<tr><td>ApportionedElectricEnergy</td><td>kWh</td></tr>
<tr><td>ThermoCount, Data1, Data2, Data3</td><td>-</td></tr>
<tr><td>OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp</td><td>ºC, ºF</td></tr>
<tr><td>FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue</td><td>Minute</td></tr>
<tr><td>MCP (PI controller/Built-in Pulse Input (PI))</td><td>kWh, m3, MJ, Blank</td></tr>
<tr><td>MCT (AI controller)</td><td>ºC, ºF, %</td></tr>
<tr><td>AHC (Advanced HVAC CONTROLLER)</td><td>ºC, ºF</td></tr>
</table>
</td></tr>
<tr><td>5th–37204th</td><td>Data *1*2*4*5*6*7</td><td>Date and time, Data 1 (51), ... (100), Data 2 (51), ... (100), Data 3 (51), ... (100),
Outdoor temperature (51), ... (100), Cooling set temperature (1), ... (50),
Heating set temperature (1), ... (50), Room temperature (1), ... (50),
Fan operation time (1), ... (50), Cooling operation time (1),... (50),
Heating operation time (1), ... (50), Thermo-ON time (1), ... (50),
Cooling Thermo-ON time (1), ... (50), Heating Thermo-ON time (1), ... (50),
Number of Thermo-ON/OFF (1), ... (50), Capacity-save value (1), ... (50),
Cooling capacity-save value (1), ... (50), Heating capacity-save value (1), ... (50),
Apporioned electric energy (1), ... (50), MCP 1 (1), ... (50), MCP 2 (1), ... (50),
MCP 3 (1), ... (50), MCP 4 (1), ... (50), MCT 1 (1), ... (50), MCT 2 (1), ... (50),
AHC temperature 1 (201), ... (250), AHC temperature 2 (201), ... (250), MCP 1,
MCP 2, MCP 3, MCP 4</td></tr>
</table>
*1 The numbers shown after “MCP” and “MCT” indicate channel No.
*2 The numbers in the parentheses indicate M-NET addresses.
*3 The measurement value of the built-in Pulse Input (PI) to AE-200/AE-50/EW-50 is only MCP1–MCP4, and the addresses are not displayed.
*4 “Outdoor temperature,” “Cooling set temperature,” “Heating set temperature,” and “Room temperature” in the data are the temperature values obtained every hour and half hour.
*5 “MCT 1” and “MCT 2” in the data are the temperature or humidity values obtained every hour and half hour.
*6 The value will not appear if the data does not exist.
*7 Each file contains up to 37200 data (25-month worth of data).
*8 The measurement units are displayed only when an air conditioning unit or measurement device is connected.
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Energy management data</td><td>
[Data type: 1-day intervals]
<table>
<tr><th>Row</th><th>Item</th><th>Format</th></tr>
<tr><td>1st</td><td>File Type</td><td>503</td></tr>
<tr><td>2nd</td><td>Data range</td><td>Start date + “–” + End date</td></tr>
<tr><td>3rd</td><td>Item *1*2</td><td>“Date,Data1(51),...Data1(100),Data3(51),...Data3(100),
OutdoorTemp(51),...OutdoorTemp(100),CoolSetTemp(1),...CoolSetTemp(50),
HeatSetTemp(1),...HeatSetTemp(50),RoomTemp(1),...RoomTemp(50),
FanTime(1),...FanTime(50),CoolTime(1),...CoolTime(50),
HeatTime(1),...HeatTime(50),ThermoTime(1),...ThermoTime(50),
CoolThermoTime(1),...CoolThermoTime(50),
HeatThermoTime(1),...HeatThermoTime(50),
SaveValue(1),...SaveValue(50),CoolSaveValue(1),...CoolSaveValue(50),
HeatSaveValue(1),...HeatSaveValue(50),
ApporionedElectricEnergy(1),...ApporionedElectricEnergy(50),
TargetElectricEnergy(1),...TargetElectricEnergy(50),
MCP1(0),...MCP1(50),MCP2(0),...MCP2(50),MCP3(0),...MCP3(50),
MCP4(0),...MCP4(50),MCT1(1),...MCT1(50),MCT2(1),...MCT2(50),
AHC1(201),...AHC1(250),AHC2(201),...AHC2(250),
MCP1,MCP2,MCP3,MCP4*3”</td></tr>
<tr><td>4th</td><td>Measurement unit *8</td><td>
<table>
<tr><th>Item</th><th>Unit</th></tr>
<tr><td>ApportionedElectricEnergy, TargetElectricEnergy</td><td>kWh</td></tr>
<tr><td>Data1, Data3</td><td>-</td></tr>
<tr><td>OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp</td><td>ºC, ºF</td></tr>
<tr><td>FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue</td><td>Minute</td></tr>
<tr><td>MCP (PI controller/Built-in Pulse Input (PI))</td><td>kWh, m3, MJ, Blank</td></tr>
<tr><td>MCT (AI controller)</td><td>ºC, ºF, %</td></tr>
<tr><td>AHC (Advanced HVAC CONTROLLER)</td><td>ºC, ºF</td></tr>
</table>
</td></tr>
<tr><td>5th–779th</td><td>Data *1*2*4*5*6*7</td><td>Date, Data 1 (51), ... (100), Data 3 (51), ... (100),
Outdoor temperature (51), ... (100), Cooling set temperature (1), ... (50),
Heating set temperature (1), ... (50), Room temperature (1), ... (50),
Fan operation time (1), ... (50), Cooling operation time (1), ... (50),
Heating operation time (1), ... (50), Thermo-ON time (1), ... (50),
Cooling Thermo-ON time (1), ... (50), Heating Thermo-ON time (1), ... (50),
Capacity-save value (1), ... (50), Cooling capacity-save value (1), ... (50),
Heating capacity-save value (1), ... (50), Apporioned electric energy (1), ... (50),
Target electric energy (1), ... (50), MCP 1 (1), ... (50), MCP 2 (1), ... (50),
MCP 3 (1), ... (50), MCP 4 (1), ... (50), MCT 1 (1), ... (50), MCT 2 (1), ... (50),
AHC temperature 1 (201), ... (250), AHC temperature 2 (201), ... (250), MCP 1,
MCP 2, MCP 3, MCP 4</td></tr>
</table>
*1 The numbers shown after “MCP” and “MCT” indicate channel No.
*2 The numbers in the parentheses indicate M-NET addresses.
*3 The measurement value of the built-in Pulse Input (PI) to AE-200/AE-50/EW-50 is only MCP1–MCP4, and the addresses are not displayed.
*4 “Outdoor temperature,” “Cooling set temperature,” “Heating set temperature,” and “Room temperature” in the data are the average daily values of the temperature values obtained every hour.
*5 “MCT 1” and “MCT 2” in the data are the average daily temperature or humidity values obtained every hour.
*6 The value will not appear if the data does not exist.
*7 Each file contains up to 775 data (25-month worth of data).
*8 The measurement units are displayed only when an air conditioning unit or measurement device is connected.
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Energy management data</td><td>
[Data type: 1-month intervals]
<table>
<tr><th>Row</th><th>Item</th><th>Format</th></tr>
<tr><td>1st</td><td>File Type</td><td>504</td></tr>
<tr><td>2nd</td><td>Data range</td><td>Start year and month + “–” + End year and month</td></tr>
<tr><td>3rd</td><td>Item *1*2</td><td>“Month,Data1(51),...Data1(100),Data3(51),...Data3(100),
OutdoorTemp(51),...OutdoorTemp(100),CoolSetTemp(1),...CoolSetTemp(50),
HeatSetTemp(1),...HeatSetTemp(50),RoomTemp(1),...RoomTemp(50),
FanTime(1),...FanTime(50),CoolTime(1),...CoolTime(50),
HeatTime(1),...HeatTime(50),ThermoTime(1),...ThermoTime(50),
CoolThermoTime(1),...CoolThermoTime(50),
HeatThermoTime(1),...HeatThermoTime(50),
SaveValue(1),...SaveValue(50),CoolSaveValue(1),...CoolSaveValue(50),
HeatSaveValue(1),...HeatSaveValue(50),
ApporionedElectricEnergy(1),...ApporionedElectricEnergy(50).
TargetElectricEnergy(1),...TargetElectricEnergy(50),
MCP1(0),...MCP1(50),MCP2(0),...MCP2(50),MCP3(0),...MCP3(50),
MCP4(0),...MCP4(50),MCT1(1),...MCT1(50),MCT2(1),...MCT2(50),
AHC1(201),...AHC1(250),AHC2(201),...AHC2(250),
MCP1,MCP2,MCP3,MCP4*3”</td></tr>
<tr><td>4th</td><td>Measurement unit *8</td><td>
<table>
<tr><th>Item</th><th>Unit</th></tr>
<tr><td>ApportionedElectricEnergy, TargetElectricEnergy</td><td>kWh</td></tr>
<tr><td>Data1, Data3</td><td>-</td></tr>
<tr><td>OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp</td><td>ºC, ºF</td></tr>
<tr><td>FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue</td><td>Minute</td></tr>
<tr><td>MCP (PI controller/Built-in Pulse Input (PI))</td><td>kWh, m3, MJ, Blank</td></tr>
<tr><td>MCT (AI controller)</td><td>ºC, ºF, %</td></tr>
<tr><td>AHC (Advanced HVAC CONTROLLER)</td><td>ºC, ºF</td></tr>
</table>
</td></tr>
<tr><td>5th–29th</td><td>Data *1*2*4*5*6*7</td><td>yyyy/mm, Data 1 (51), ... (100), Data 3 (51), ... (100),
Outdoor temperature (51), ... (100), Cooling set temperature (1), ... (50),
Heating set temperature (1), ... (50), Room temperature (1), ... (50),
Fan operation time (1), ... (50), Cooling operation time (1), ... (50),
Heating operation time (1), ... (50), Thermo-ON time (1), ... (50),
Cooling Thermo-ON time (1), ... (50), Heating Thermo-ON time (1), ... (50),
Capacity-save value (1), ... (50), Cooling capacity-save value (1), ... (50),
Heating capacity-save value (1), ... (50), Apporioned electric energy (1), ... (50),
Target electric energy (1), ... (50), MCP 1 (1), ... (50), MCP 2 (1), ... (50),
MCP 3 (1), ... (50), MCP 4 (1), ... (50), MCT 1 (1), ... (50), MCT 2 (1), ... (50),
AHC temperature 1 (201), ... (250), AHC temperature 2 (201), ... (250), MCP 1,
MCP 2, MCP 3, MCP 4</td></tr>
</table>
*1 The numbers shown after “MCP” and “MCT” indicate channel No.
*2 The numbers in the parentheses indicate M-NET addresses.
*3 The measurement value of the built-in Pulse Input (PI) to AE-200/AE-50/EW-50 is only MCP1–MCP4, and the addresses are not displayed.
*4 “Outdoor temperature,” “Cooling set temperature,” “Heating set temperature,” and “Room temperature” in the data are the average monthly values of the average temperature values obtained every day.
*5 “MCT 1” and “MCT 2” in the data are the average monthly values of the average temperature or humidity values obtained every day.
*6 The value will not appear if the data does not exist.
*7 Each file contains up to 25 data (25-month worth of data).
*8 The measurement units are displayed only when an air conditioning unit or measurement device is connected.
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Energy management data</td><td>[Data type: 1-year intervals]
<table>
<tr><th>Row</th><th>Item</th><th>Format</th></tr>
<tr><td>1st</td><td>File Type</td><td>505</td></tr>
<tr><td>2nd</td><td>Data range</td><td>Start year + “–” + End year</td></tr>
<tr><td>3rd</td><td>Item *1*2</td><td>“Year,Data1(51),...Data1(100),Data3(51),...Data3(100),
FanTime(1),...FanTime(50),CoolTime(1),...CoolTime(50),
HeatTime(1),...HeatTime(50),ThermoTime(1),...ThermoTime(50),
CoolThermoTime(1),...CoolThermoTime(50),
HeatThermoTime(1),...HeatThermoTime(50),SaveValue(1),...SaveValue(50),
CoolSaveValue(1),...CoolSaveValue(50),
HeatSaveValue(1),...HeatSaveValue(50),
ApporionedElectricEnergy(1),...ApporionedElectricEnergy(50)
TargetElectricEnergy(1),...TargetElectricEnergy(50),
MCP1(0),...MCP1(50),MCP2(0),...MCP2(50),MCP3(0),...MCP3(50),
MCP4(0),...MCP4(50),
MCP1,MCP2,MCP3,MCP4*3”</td></tr>
<tr><td>4th</td><td>Measurement unit *6</td><td>
<table>
<tr><th>Item</th><th>Unit</th></tr>
<tr><td>ApportionedElectricEnergy, TargetElectricEnergy</td><td>kWh</td></tr>
<tr><td>Data1, Data3</td><td>-</td></tr>
<tr><td>FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue</td><td>Minute</td></tr>
<tr><td>MCP (PI controller/Built-in Pulse Input (PI))</td><td>kWh, m3, MJ, Blank</td></tr>
</table>
</td></tr>
<tr><td>5th–9th</td><td>Data *1*2*4*5</td><td>yyyy, Data 1 (51), ... (100), Data 3 (51), ... (100),
Fan operation time (1), ... (50), Cooling operation time (1), ... (50),
Heating operation time (1), ... (50), Thermo-ON time (1), ... (50),
Cooling Thermo-ON time (1), ... (50), Heating Thermo-ON time (1), ... (50),
Capacity-save value (1), ... (50), Cooling capacity-save value (1), ... (50),
Heating capacity-save value (1), ... (50), Apporioned electric energy (1), ... (50),
Target electric energy (1), ... (50), MCP 1 (1), ... (50), MCP 2 (1), ... (50),
MCP 3 (1), ... (50), MCP 4 (1), ... (50), MCP 1, MCP 2, MCP 3, MCP 4</td></tr>
</table>
*1 The numbers shown after “MCP” and “MCT” indicate channel No.
*2 The numbers in the parentheses indicate M-NET addresses.
*3 The measurement value of the built-in Pulse Input (PI) to AE-200/AE-50/EW-50 is only MCP1–MCP4, and the addresses are not displayed.
*4 The value will not appear if the data does not exist.
*5 Each file contains up to 5 data (5-year worth of data).
*6 The measurement units are displayed only when an air conditioning unit or measurement device is connected.</td></tr>
<tr><td>Close</td><td>Click to close the CSV File Download Tool.</td></tr>
</table>

[1] Energy Management Data List

"Table: Data items" below summarizes the energy-control-related items that can be output in a CSV format, their measurement units, and their data ranges for each data type.
"Table: Data period" below summarizes how many months/years worth of data each CSV file can contain.

Table: Data items

Unit type	Item	Data type (intervals)					Measurement unit	Data range *11
		5-minute	30-minute	1-day *6	1-month *7	1-year *8		
Outdoor unit	Data 1 *1	V	V	V	V	V	–	0–999999.99
	Data 2 *1	V	V				–	0–9999.99
	Data 3 *1	V	V	V	V	V	–	0–99.99
	Outdoor temperature	V	V *2	V *3	V *4		ºC, ºF	-100.0–1000.0
Indoor unit	Cooling set temperature	V	V *2	V *3	V *4		ºC, ºF	-100.0–1000.0
	Heating set temperature	V	V *2	V *3	V *4		ºC, ºF	-100.0–1000.0
	Room temperature	V	V *2	V *3	V *4		ºC, ºF	-100.0–1000.0
	Fan operation time		V *9	V *10	V *10	V *10	Minute	0–2147483647
	Cooling operation time		V *9	V *10	V *10	V *10	Minute	0–2147483647
	Heating operation time		V *9	V *10	V *10	V *10	Minute	0–2147483647
	Thermo-ON time		V *9	V *10	V *10	V *10	Minute	0–2147483647
	Cooling Thermo-ON time		V *9	V *10	V *10	V *10	Minute	0–2147483647
	Heating Thermo-ON time		V *9	V *10	V *10	V *10	Minute	0–2147483647
	Number of Thermo-ON/OFF *5		V *9				–	0–2147483647
	Capacity-save value		V *9	V *10	V *10	V *10	Minute	0–21474836.47
	Cooling capacity-save value		V *9	V *10	V *10	V *10	Minute	0–21474836.47
	Heating capacity-save value		V *9	V *10	V *10	V *10	Minute	0–21474836.47
	Apportioned electric energy		V *9	V *10	V *10	V *10	kWh	0–999999.9999
	Target electric energy			V *10	V *10	V *10	kWh	0–214748.3647
MCP (PI controller/ Built-in Pulse Input (PI))	MCP 1	V *9	V *9	V *10	V *10	V *10	kWh, m3, MJ, Blank	0–999999.99
	MCP 2	V *9	V *9	V *10	V *10	V *10	kWh, m3, MJ, Blank	0–999999.99
	MCP 3	V *9	V *9	V *10	V *10	V *10	kWh, m3, MJ, Blank	0–999999.99
	MCP 4	V *9	V *9	V *10	V *10	V *10	kWh, m3, MJ, Blank	0–999999.99
MCT (AI controller)	MCT 1	V	V *2	V *3	V *4		ºC, ºF, %	-100.0–1000.0
	MCT 2	V	V *2	V *3	V *4		ºC, ºF, %	-100.0–1000.0
AHC	AHC temperature 1	V	V *2	V *3	V *4		ºC, ºF	-100.0–1000.0
	AHC temperature 2	V	V *2	V *3	V *4		ºC, ºF	-100.0–1000.0

*1 The values are only for factory use. Do not use the values as reference.
*2 The values are the temperature or humidity values obtained every hour and half hour.
*3 The values are the average daily values of the temperature or humidity values obtained every hour.
*4 The values are the average monthly values of the average temperature or humidity values obtained every day.
*5 "Number of Thermo-ON/OFF" is the number of times the unit has gone from Thermo-OFF to Thermo-ON.
*6 If the data contains the data for the current day, the data will be output that were collected up to the point of time when the CSV file was downloaded.
*7 The data for the current month will contain the data that were collected up to the point of time when the CSV file was downloaded.
*8 The data for the current year will contain the data that were collected up to the point of time when the CSV file was downloaded.
*9 Each value is a cumulative value after the start of operation. If the value exceeds the maximum value, it will wrap around to zero.
*10 Each value is a total value for each time period (1-day, 1-month, or 1-year).
*11 The number of digits that will be shown after the decimal point varies with the data item. For example, if the data range is "0–99.99," two digits after the decimal point will be shown.

Table: Data period

Data type (intervals)	Data period
5-minute	Last 2 months
30-minute	Last 25 months
1-day	Last 25 months
1-month	Last 25 months
1-year	Last 5 years

Chapter 3. For tenant managers

If logged in with tenant manager privileges, Integrated Centralized Control Web monitoring and operating functions, energy management and schedule functions can be used.
Log in with tenant manager privileges to display the Monitor/Operation screen.

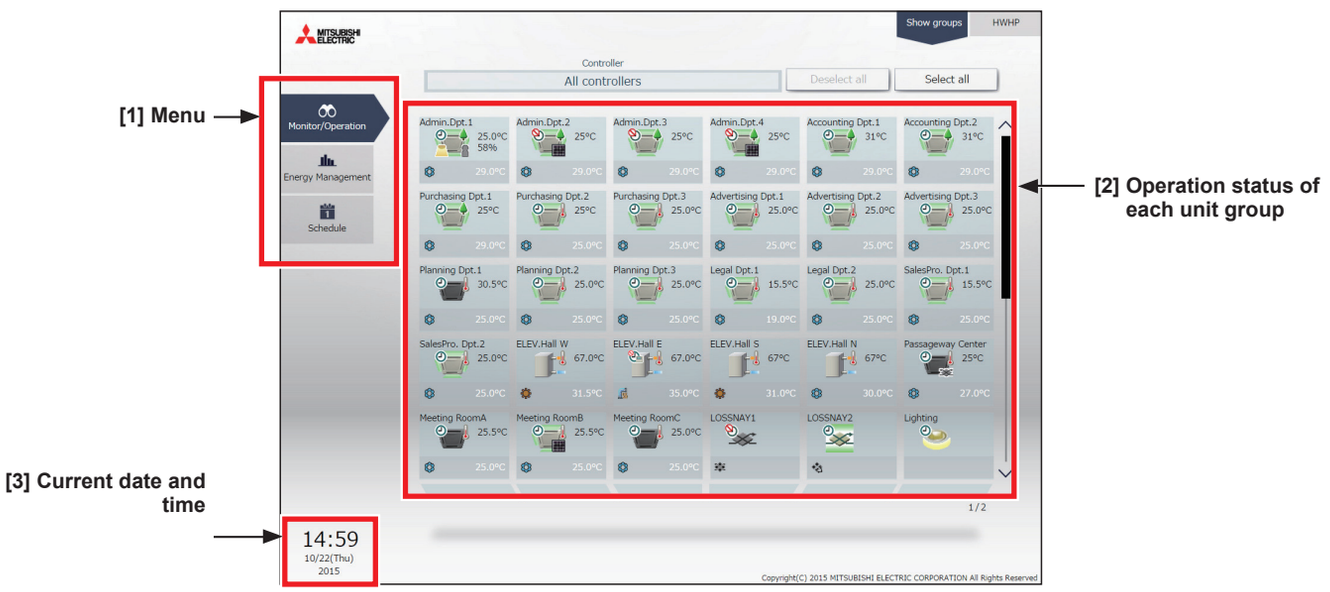
Login URL: http://[IP address of the login destination centralized controller AE-200/EW-50]/control/index.html

Note: For how to log in to the Integrated Centralized Control Web using a PC or tablet, refer to 3 “Logging in to the Integrated Centralized Control Web” in Chapter 1.

Note: Login processing may require approximately 20 seconds. Also, switching between pages sometimes takes approximately 3 seconds. More time may be required, depending on your communications environment, terminal functionality, and the number of devices in the managed air conditioning unit group.

Note: Consult with the building manager for the ID and password required for login.

Note: “Tenant/Personal Web” license is required to use tenant managers.



[1] Menu

Monitor/Operation	Monitor/Operation	Displays a screen to monitor and operate the operation conditions of each unit group.
Energy Management	Energy Management	Displays the energy use status of each unit group.
Schedule	Schedule	Sets the schedule operations for each unit group.

[2] Operation status of each unit group

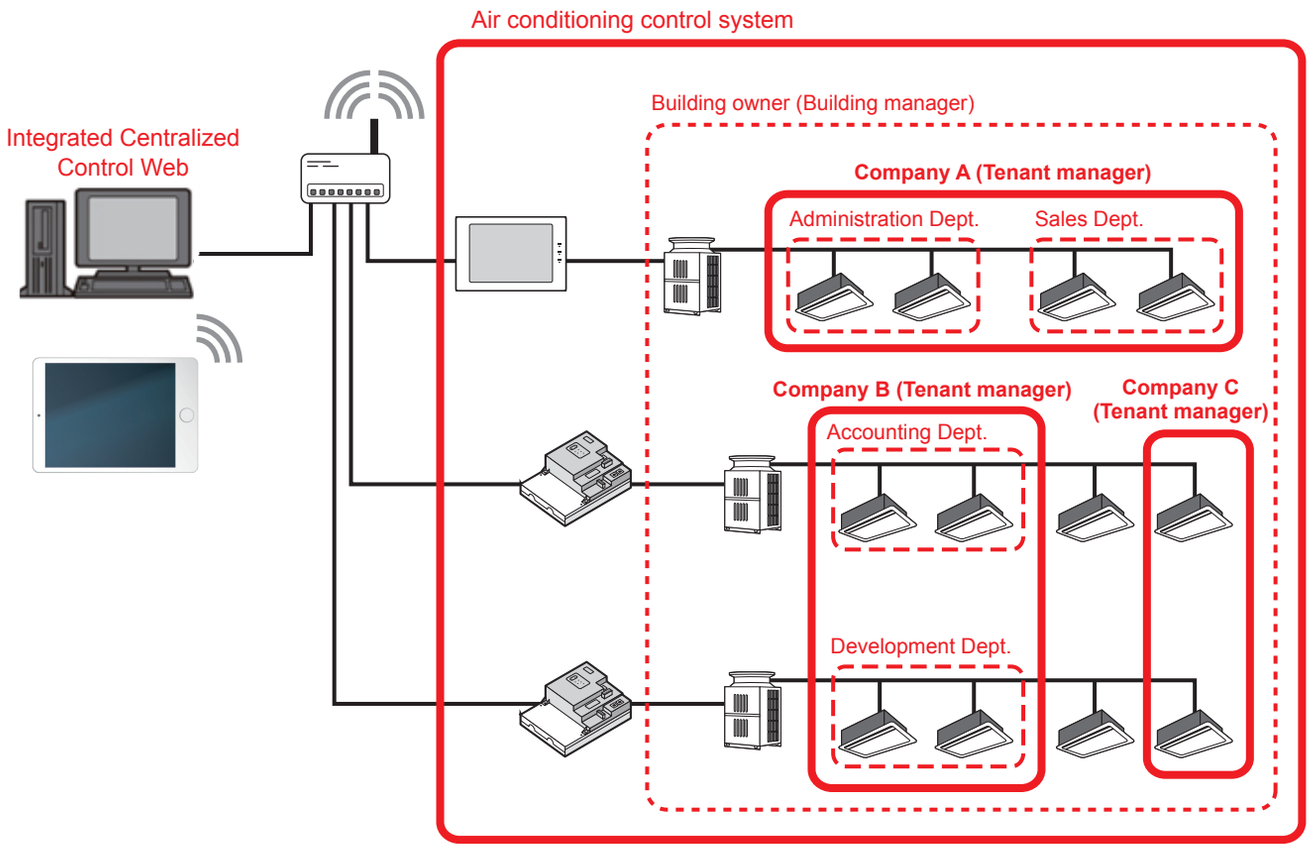
A list of unit groups set for login tenant manager management appears.

Note: Up to 200 tenant managers can be registered in the air conditioning control system of Integrated Centralized Control Web.

Note: Tenant manager settings can be configured on the Integrated Centralized Control Web. Refer to section 2-5-2 “User registration” in Chapter 2 for settings methods.

Note: Only the unit groups set for tenant manager management can be monitored and operated.

Example) Range of management for when tenant managers set for Company A, Company B, and Company C respectively



[3] Current date and time

This displays the time of the PC on which Integrated Centralized Control Web is used.

Note: Scheduled tasks are executed as per the time on the centralized controller.

Note: Schedule setting and date selection/display for energy management are as per the time on the PC.

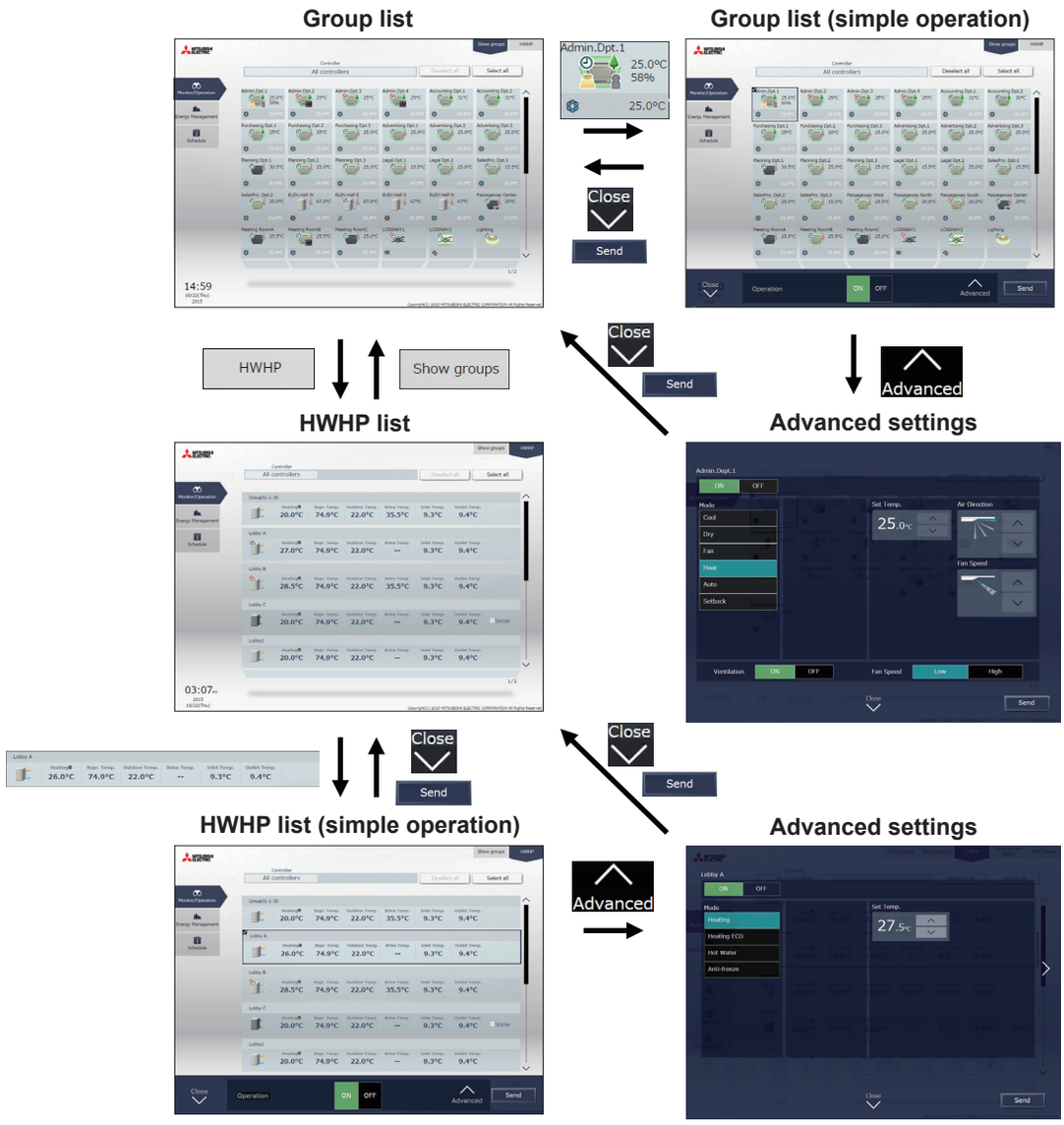
Note: Ensure that the time on the Integrated Centralized Control Web and on the managed centralized controller match when using the Integrated Centralized Control Web. Refer to 2-5-3 [1] “Date and Time Settings” in Chapter 2 for details on ensuring these match.

1. Usage

This section explains how to monitor and operate the air conditioning units, LOSSNAY units, Air To Water (PWFY) units, general equipment, and HWHP (CAHV, CRHV) units that are connected to the AE-200/AE-50/EW-50.

1-1. Monitor/Operation

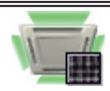
1-1-1. Screen sequence



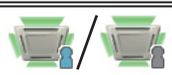
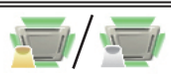
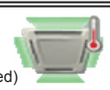
1-1-2. Group icons

Each group icon indicates the operation condition of the group. Click the icon, and then click [Advanced] to bring up the operation settings screen.

[1] Air conditioning unit group

ON	OFF	Error	Filter sign ON *1 *15	Interlocked LOSSNAY ON *2
				

Interlocked LOSSNAY OFF *3	Schedule set	Schedule disabled	Energy-saving ON *4 *10	Setback ON *8
				

Unit unknown *9	Occupied/Vacant *5 *6 *15	Bright/Dark *7 *8 *15	Room temperature display *11 *15	Room humidity display *12 *13 *15
	 (blue) (gray)	 (yellow) (gray)	 25.0°C (red)	 (blue) 69%

Hold ON *14


*1 Whether or not to display the filter sign ([ON], [OFF]) can be set in the initial settings.

*2 If the LOSSNAY unit is interlocked with the operation of Mr. Slim units, “Interlocked LOSSNAY ON” icon will appear, even when the LOSSNAY unit is operated individually.
(Applicable M-NET adapter model: PAC-SF48/50/60/70/80/81MA-E)

*3 If a LOSSNAY unit is interlocked with the operation of indoor units in multiple groups, the LOSSNAY unit may be in operation, even when the “Interlocked LOSSNAY OFF” icon is displayed.

*4 The “Energy-saving ON” icon will appear while the Peak Cut control is performed. Even when the operation of the group is stopped due to the Peak Cut control, the icon will appear.

*5 The Occupancy/Vacancy status icon will appear only when the remote controller in the group has an occupancy sensor. (ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA)) The Occupancy/Vacancy status icon will appear only when [ ] (blue), [ ] (gray), or [ ] (blue/gray) is selected in the initial settings.

*6 The Occupancy/Vacancy status icon takes priority over the “Interlocked LOSSNAY ON” and “Interlocked LOSSNAY OFF” icons.

*7 The Brightness/Darkness status icon will not appear only when the remote controller in the group has a brightness sensor. (ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA)) The Brightness/Darkness status icon will appear only when [ ] (yellow), [ ] (gray), or [ ] (yellow/gray) is selected in the initial settings.

*8 The “Setback ON” icon takes priority over the Brightness/Darkness status icon.

*9 The “Unit unknown” icon will stay when the AE-200/AE-50/EW-50 cannot be recognized after startup. Check for proper connection of the air conditioning units and proper group settings.

*10 The “Energy-saving ON” icon takes priority over the “Room temperature display” and “Room humidity display” icons.

*11 Display option of the room temperature ([Always show], [Show during operation], [Hide]) can be set in the initial settings.

*12 The “Room humidity display” icon will appear only when the remote controller in the group has a humidity sensor. (ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA))

*13 Whether or not to display the humidity ([ON], [OFF]) can be set in the initial settings.

*14 The “Hold ON” icon is displayed for the AE-200A/AE-50A/EW-50A, but not for the AE-200E/AE-50E/EW-50E.

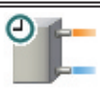
*15 Initial settings can be configured in the basic settings screen on the Initial Setting Tool, LCD, or the Web browser for initial settings. Refer to the Instruction Book (Initial Settings) for details.

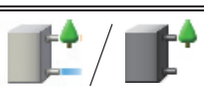
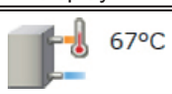
[2] LOSSNAY unit (ventilator) group

ON	OFF	Error	Filter sign ON *1 *6	Schedule set *3
				

Schedule disabled *3	Energy-saving ON *2	Night Purge ON *3	Hold ON *7
		 (blue)	

[3] Air To Water (PWFY) unit group and HWHP (CAHV, CRHV) unit group

ON	OFF	Error	Schedule set	Schedule disabled
				

Energy-saving ON *2	Water temperature display *4	Hold ON *7
	 (red) 67°C	

[4] Other equipment group

ON	OFF	Error	Schedule set *5 *6	Schedule disabled
				

Hold ON *7


*1 Whether or not to display the filter sign ([ON], [OFF]) can be set in the initial settings.

*2 The “Energy-saving ON” icon will appear while the Peak Cut control is performed. Even when the operation of the group is stopped due to the Peak Cut control, the icon will appear. This icon will not appear for the HWHP (CAHV, CRHV) unit groups.

*3 If Schedule is set during Night Purge operation, then the order of priority for display will be “Night Purge ON” → “Schedule set”. Even if Schedule is disabled, the order of priority for display will be “Night Purge ON” → “Schedule disabled”.

*4 The “Water temperature display” icon will not appear for the HWHP (CAHV, CRHV) unit groups.

*5 If any schedule setting is applied to a DIDO controller whose prohibition setting is enabled (“Allow operations” is set to [No operations] on the group settings screen in the initial settings), the “Schedule set” icon will appear, but the scheduled operations will not be performed. Refer to the Instruction Book (Initial Settings) for settings methods

*6 Initial settings can be configured in the basic settings screen on the Initial Setting Tool, LCD, or the Web browser for initial settings. Refer to the Instruction Book (Initial Settings) for details.

*7 The “Hold ON” icon is displayed for the AE-200A/AE-50A/EW-50A, but not for the AE-200E/AE-50E/EW-50E.

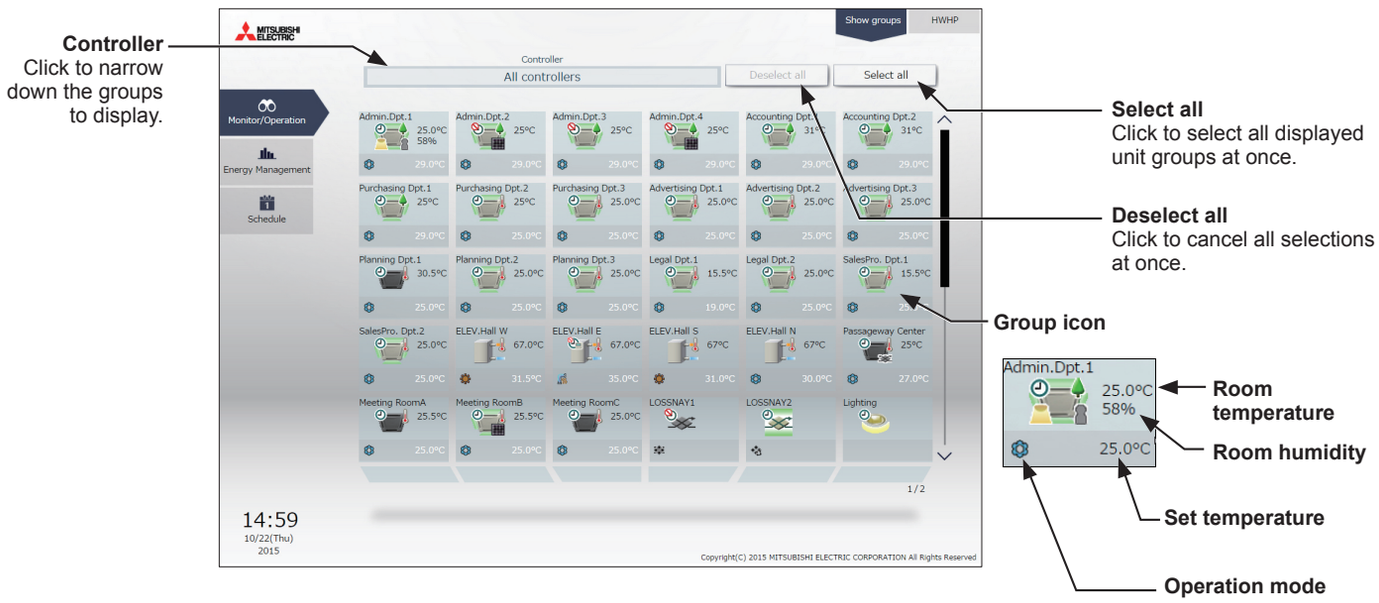
Note: Icons can be changed in the group settings screen in the initial settings. Refer to the Instruction Book (Initial Settings) for settings methods.

1-1-3. Monitoring the operation status

This section explains how to monitor the operation status of units.

[1] Air conditioning unit, LOSSNAY unit, Air To Water (PWFY) unit, and other equipment groups

Click [Monitor/Operation] in the menu, and then click [Show groups] to display the operation status of unit groups.



The operation mode currently in use is displayed in “Operation mode”.

• Air conditioning unit group

Cool	Dry	Fan	Heat	Auto	Auto (Cool)	Auto (Heat)	Setback
							

• LOSSNAY unit (ventilator) group

Bypass	Heat Recovery	Auto
		

• Air To Water (PWFY) unit group

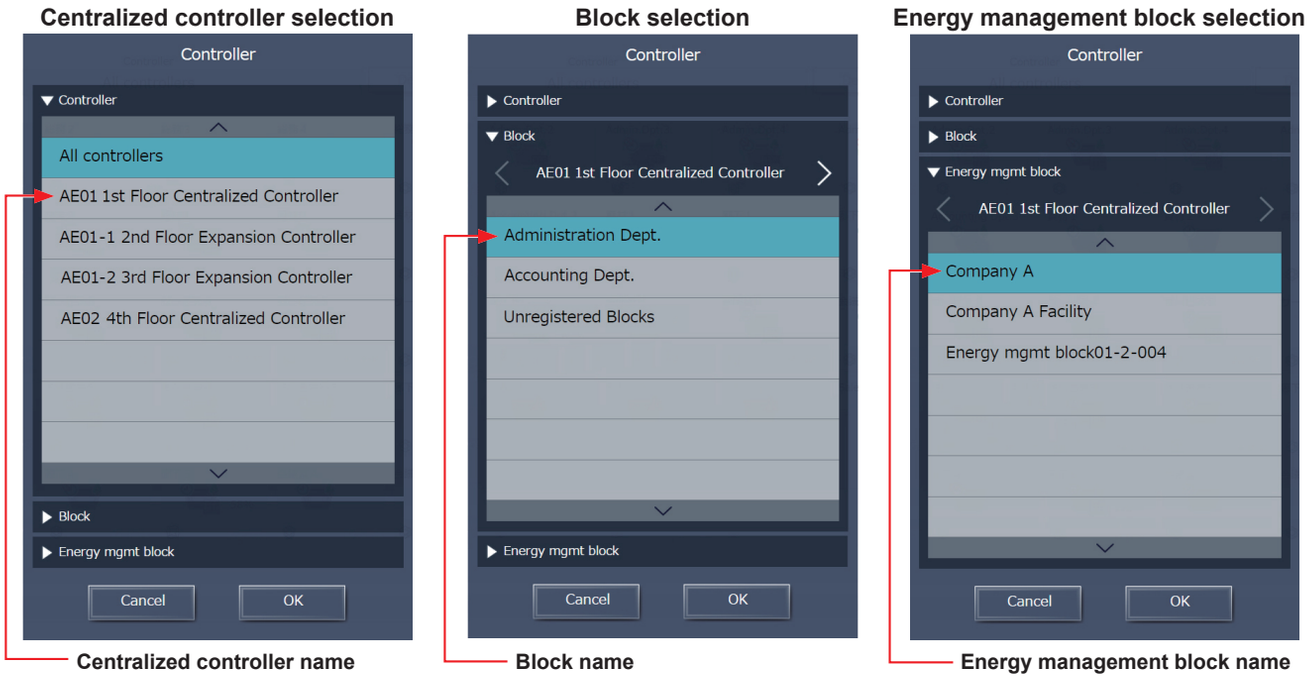
Heating	Heating ECO	Hot Water	Anti-freeze	Cooling
				

Note: In [Controller], it is possible to narrow down the unit groups for group display into “Centralized controller units,” “Block units,” and “Energy management block units.”

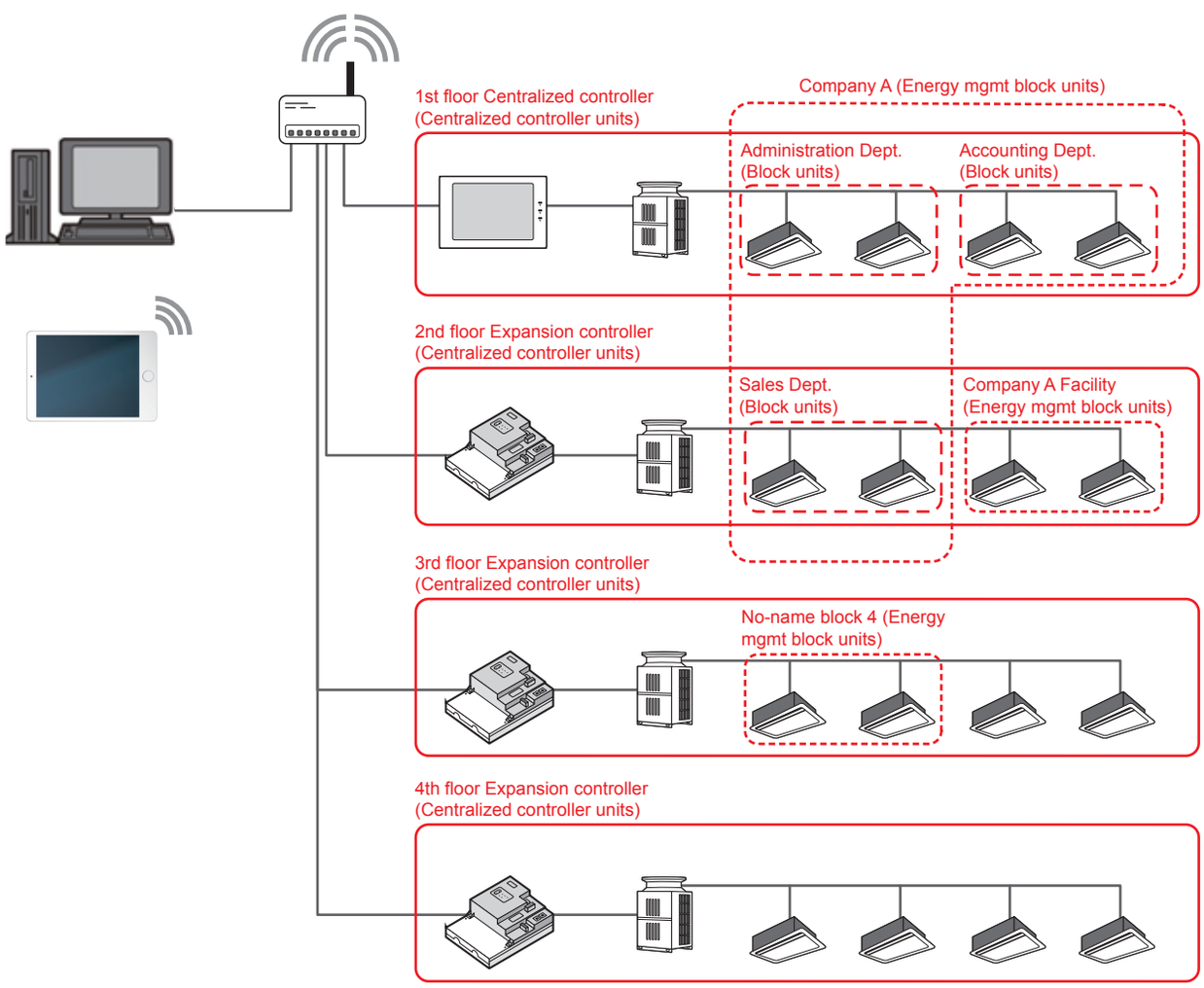
Note: The selection screen displays the centralized controllers to which unit groups set for tenant manager management (in section 2-5-2 “User registration” in Chapter 2) are connected and the blocks and energy management blocks of unit groups set for tenant manager management.

Note: For how to configure centralized controller name setting, block and energy management block settings, and name settings, refer to the Instruction Book (Initial Settings).

Note: The group name can be displayed using up to 10 double-byte, or 10 to 18 single-byte characters. The number of characters that can be displayed differs depending on character type. Name setting is carried out through initial settings. Refer to the Instruction Book (Initial Settings) for settings methods.



* Example of narrowing down the range in [Controller]



[2] HWHP (CAHV, CRHV) unit group

Click [Monitor/Operation] in the menu, and then click [HWHP] to display the operation status of HWHP (CAHV, CRHV) unit groups.

Note: [HWHP] will not appear if no HWHP (CAHV, CRHV) units have been registered to any group.

Note: Fan mode will appear only for CAHV units. Brine temperature will appear only for CRHV units.



The operation mode currently in use is displayed in “Operation mode”.

• HWHP (CAHV, CRHV) unit group

Heating	Heating ECO	Hot Water	Anti-freeze
			

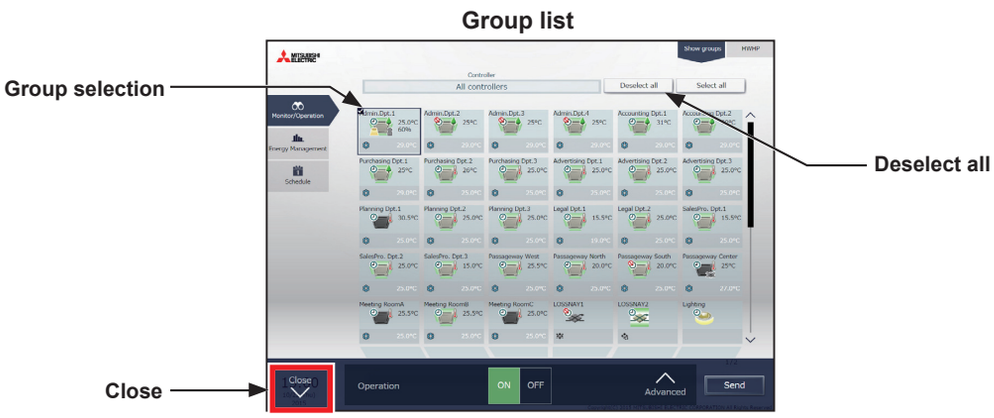
1-1-4. Selecting the icons of the groups to be operated

In the group list, select the icon(s) of the group(s) to be operated as explained below.

[1] Selecting group icons

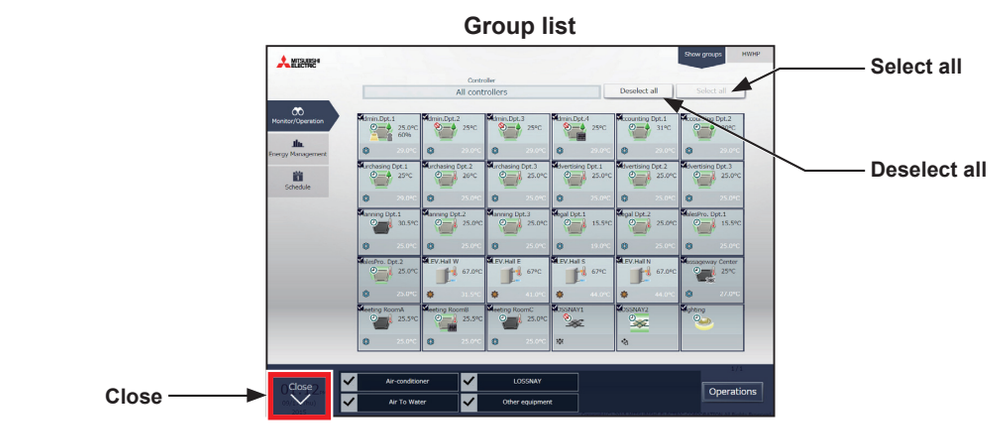
(1) Selecting unit group(s) that are managed by tenant managers

(1) In the group list, click the icon(s) of the group(s) you want to operate.
The selected group icon(s) will appear with a checkmark and a dark blue frame.
Click again to deselect.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



(2) Selecting all unit groups that are managed by tenant managers

(1) In the group list, click [Select all].
The all icon(s) will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



(3) Selecting all groups under the control of a given controller connected to the unit groups that are managed by tenant managers

(1) In the group list, click [Controller]. In the controller selection screen, select a centralized controller.
The unit groups that are under the control of the selected centralized controller will appear.
In the group list (centralized controller units), click [Select all]. All icons will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



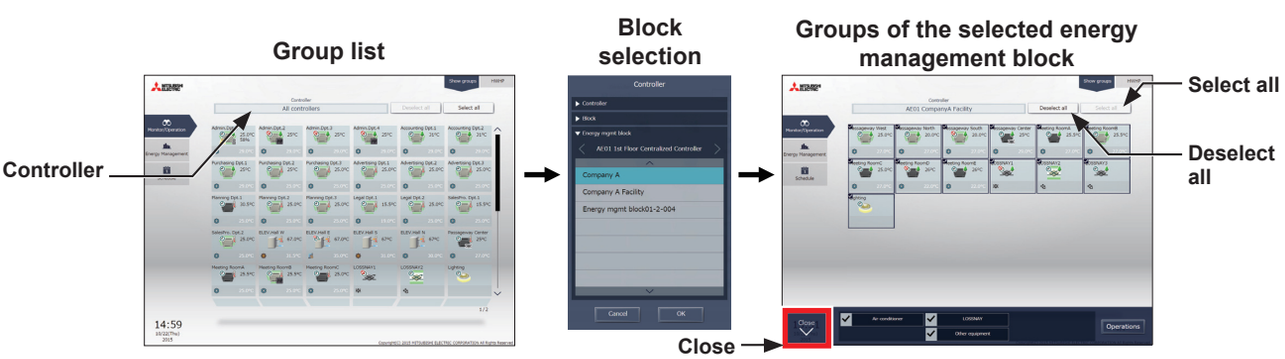
(4) Selecting all groups in a given block that are managed by tenant managers

(1) In the group list, click [Controller]. In the block selection screen, select a block.
The unit groups that belong to the selected block will appear.
In the group list (block units), click [Select all]. All icons will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



(5) Selecting all groups in a given energy management block that are managed by tenant managers

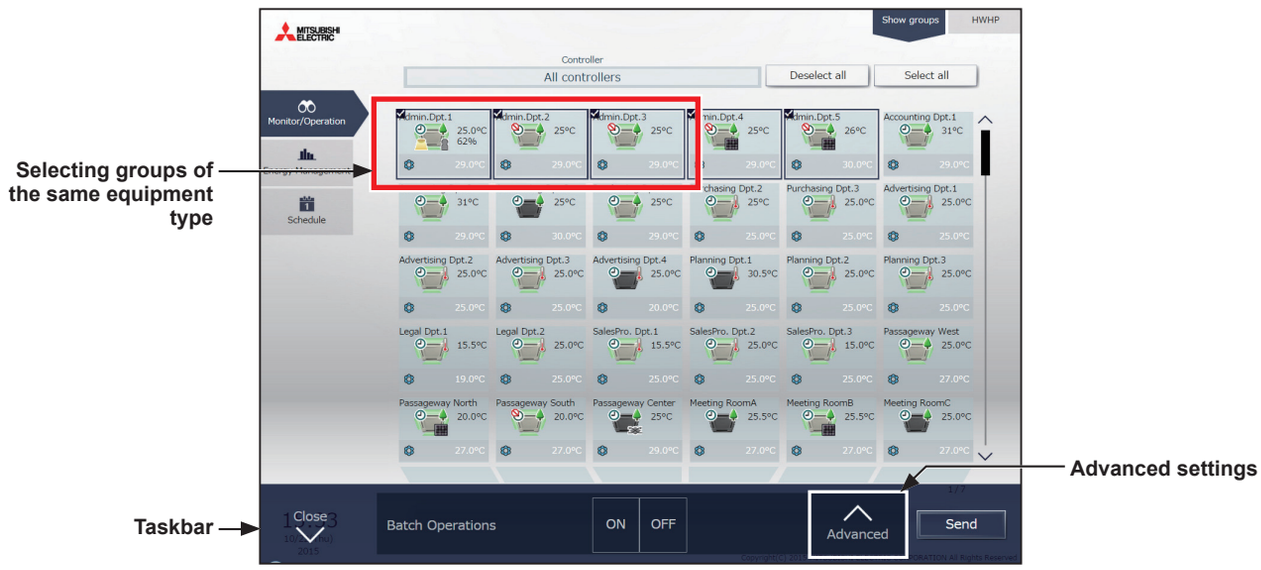
(1) In the group list, click [Controller]. In the block selection screen, select an energy management block.
The unit groups that belong to the selected energy management block will appear.
In the group list (energy management block units), click [Select all]. All icons will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



[2] Selecting equipment type

(1) When the equipment types of all selected groups are the same

Selecting the group icons to operate and clicking [Advanced] in the taskbar will bring up the operation settings screen for the selected groups.
Refer to section 1-1-5 “Advanced settings” for details about the advanced settings.



Note: [ON] and [OFF] operations can be performed on the taskbar for the selected unit groups.

(2) When the equipment types of the selected groups are different

Selecting the group icons to operate will bring up the equipment type selection options in the taskbar.
Select an equipment type, and click [Operations] to display the operation settings screen.
Refer to section 1-1-5 “Advanced settings” for details about the advanced settings.



Note: When two or more equipment types are selected, only the [ON/OFF] and [Schedule] settings can be configured.

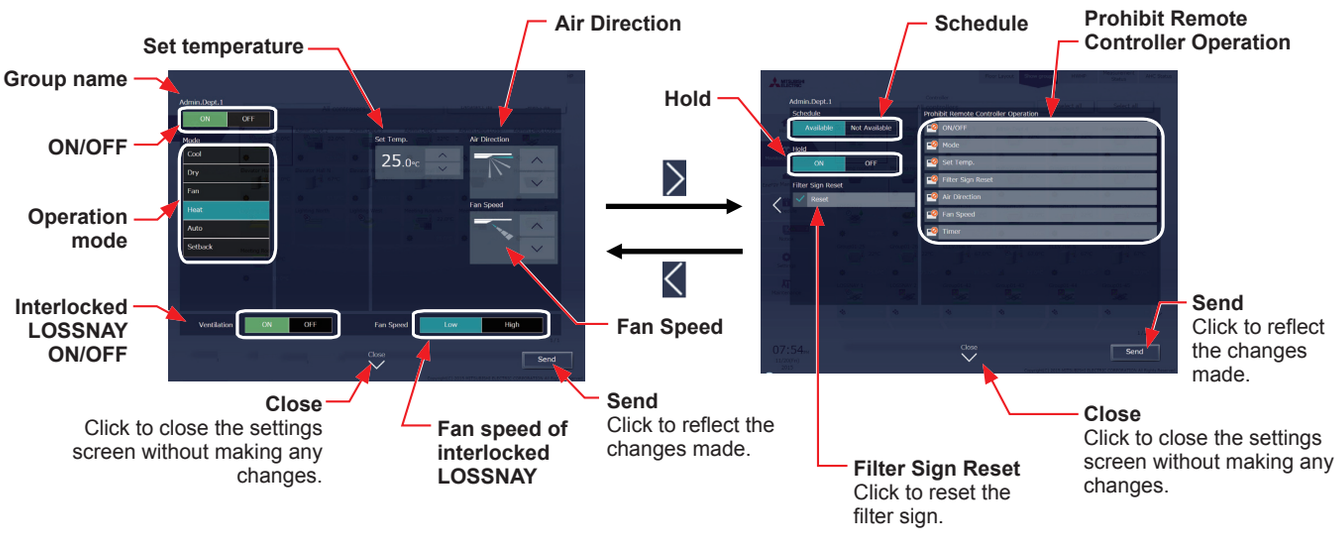
Note: [Other equipment] in the taskbar indicates general equipment.

1-1-5. Advanced settings

In the group list, selecting the group icon(s) and clicking [Advanced] in the taskbar will bring up the operation settings screen for the selected group(s). The current operation status will appear.
Change necessary operation settings, and then click [Send] to reflect the changes. Click [Close] to return to the previous screen without making any changes.

Note: When the setting is changed from other controllers, the operation status shown on the screen will not be updated while the screen is open.

[1] Air conditioning unit group

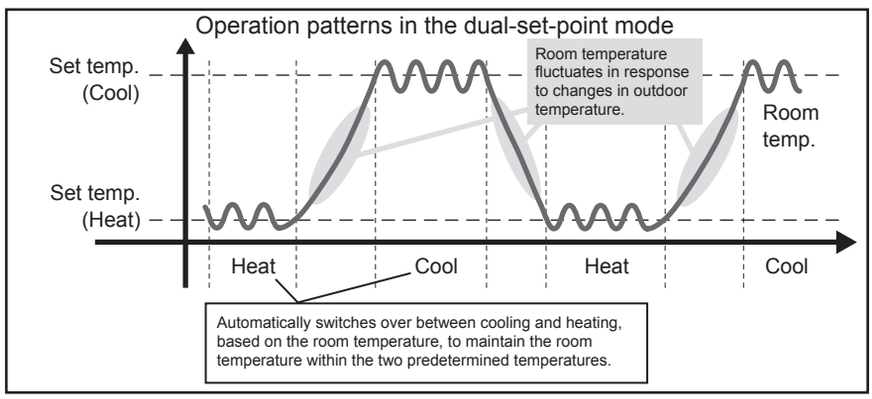


Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units.
Operation mode	Select an operation mode.	Click the desired operation mode. [Cool], [Dry], [Fan], [Heat], [Auto], [Setback] Note: When the operation mode signals from the cooling/heating switchover model of units are mixed (Cool and Heat), the operation mode will not change and the selected operation mode will blink. Note: The Setback mode can be selected on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Set temperature	Adjust the set temperature with the ∧ ∨ buttons.	Depending on settings values resulting from restrictions by device functions and set temperature range restriction functions, temperature settings ranges may be restricted. Note: For the same indoor unit, when changing operation mode and set temperature from multiple operation devices (system controllers, remote controllers), display of outside the allowable settings range may occur. Note: Depending on the unit model, setting in 0.5°C units and 1°C units is possible. Note: If the indoor unit supports the dual-set-point function in the Auto mode and when the operation mode above is set to Auto or Setback, two set temperatures for Cool mode and Heat mode can be set. For details about the dual-set-point function, refer to page 118. Note: When the indoor units that support the dual-set-point function and the indoor units that do not support the dual-set-point function exist in the same group, only one set temperature can be set in the Auto mode.
Air Direction	Adjust the air direction with the ∧ ∨ buttons.	
Fan Speed	Adjust the fan speed with the ∧ ∨ buttons.	

Item	Operation method	Description
Interlocked LOSSNAY ON/OFF	Select [ON] or [OFF].	Turns on or off the interlocked LOSSNAY units (ventilator).
Fan speed of interlocked LOSSNAY	Select [High] or [Low].	Switches the fan speed of the interlocked LOSSNAY units (ventilator).
Schedule	Select [Available] or [Not Available].	Enables/Disables the schedules. Note: When [Not Available] is set, the scheduled operations are disabled even if schedules are set. Note: The operations that have been scheduled on the remote controller will not be disabled.
Hold	Select [ON] or [OFF].	Enables/Disables the Hold function. When the Hold function is enabled, the scheduled operations are disabled. Note: The operations that have been scheduled on the remote controller will also be disabled. Note: [Hold type] can be specified in the [Advanced] screen in the initial settings. Refer to the Instruction Book (Initial Settings) for details. Note: The Hold function can be used on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Filter Sign Reset	Select [Reset] and click [Send].	Resets the filter sign. (The cumulative time will be reset.) When resetting, ensure the check mark is displayed as “ ”. Note: Reset the filter sign after cleaning the filter. Note: After the filter sign is reset, it takes up to an hour to clear the filter sign display on the local remote controllers.
Prohibit Remote Controller Operation	Click the operation item to switch the setting between “Prohibit” and “Permit”.	The following operations or setting change can be prohibited from the local remote controllers and when the Integrated Centralized Control Web is logged in with general user privileges: ON/OFF, Operation mode, Set temperature, Filter Sign Reset, Air Direction, Fan Speed, and Timer. : Permit : Prohibit Note: If “Timer” operation is prohibited, scheduled operations set on the local remote controller will be disabled.
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

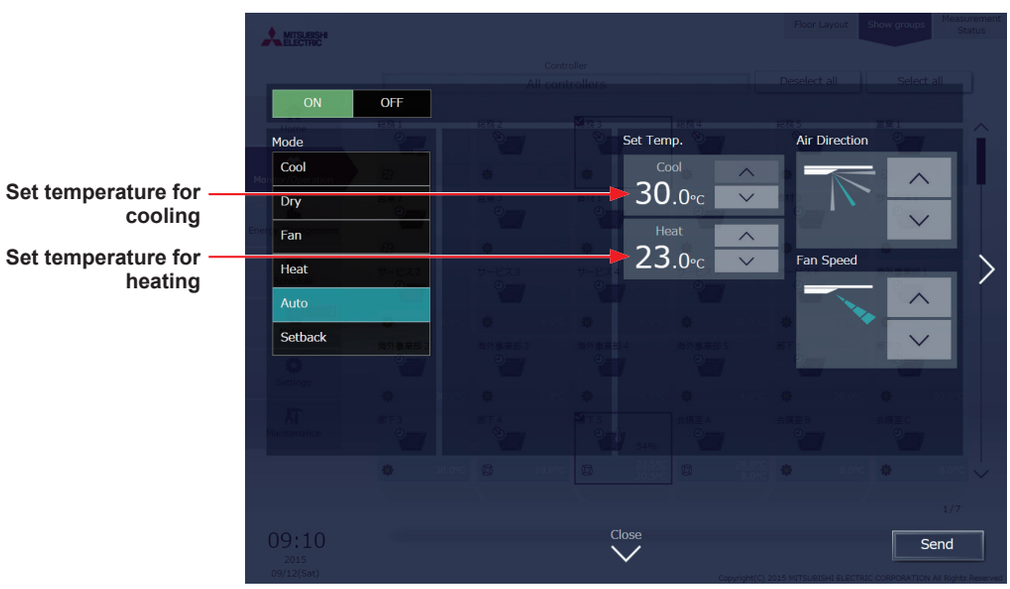
* After [Send] is clicked, it takes a while for the status of the LOSSNAY unit group icons to be updated.
* If a LOSSNAY unit is interlocked with the operation of indoor units in multiple groups, the LOSSNAY unit may be in operation, even when the LOSSNAY unit is displayed as “stopped”.

Note: When the indoor units support a dual-set-point function, two different set temperatures (one for cooling and the other for heating) can be set for the Auto mode. When this function is used, indoor units automatically switch over between cooling and heating, based on the room temperature, to maintain the room temperature within the two predetermined temperatures. The graph below shows an example of operation patterns of units operated in the dual-set-point mode.

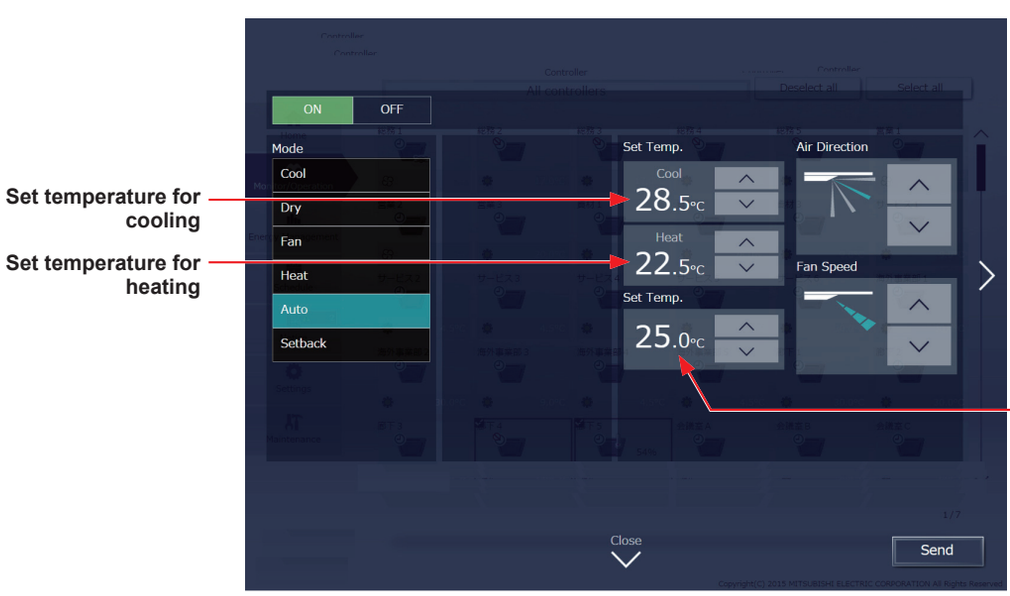


If the indoor units of the selected unit group support the dual-set-point function, two different set temperatures (one for cooling and the other for heating) can be set.

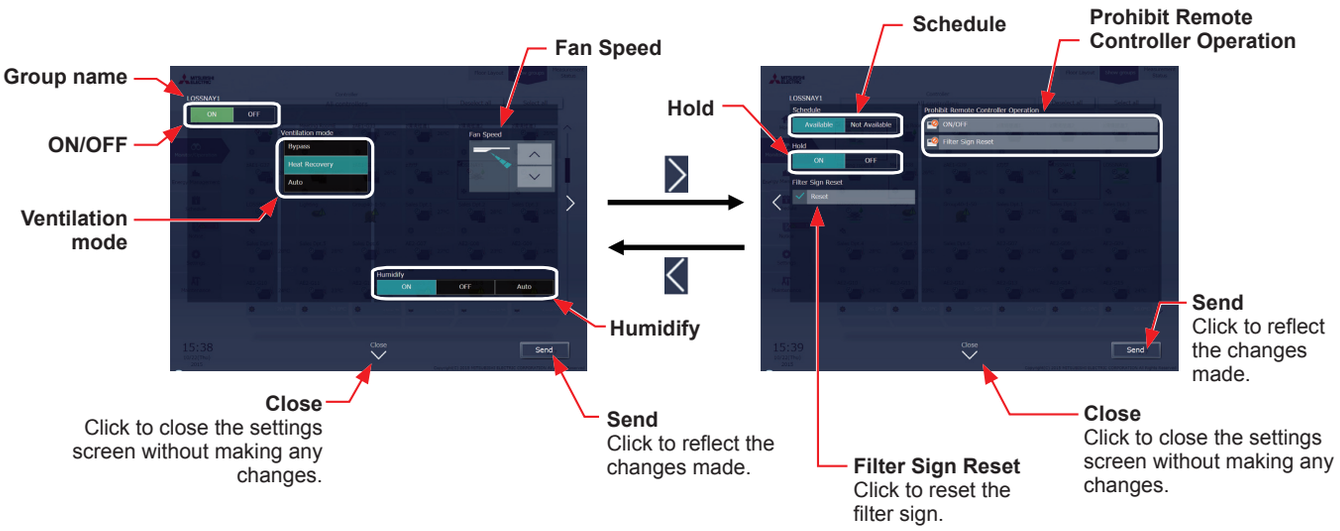
(1) Temperature setting for a group in which all indoor units support dual-set-point mode



(2) Temperature setting for when the groups that support the dual-set-point mode and the groups that do not are selected together

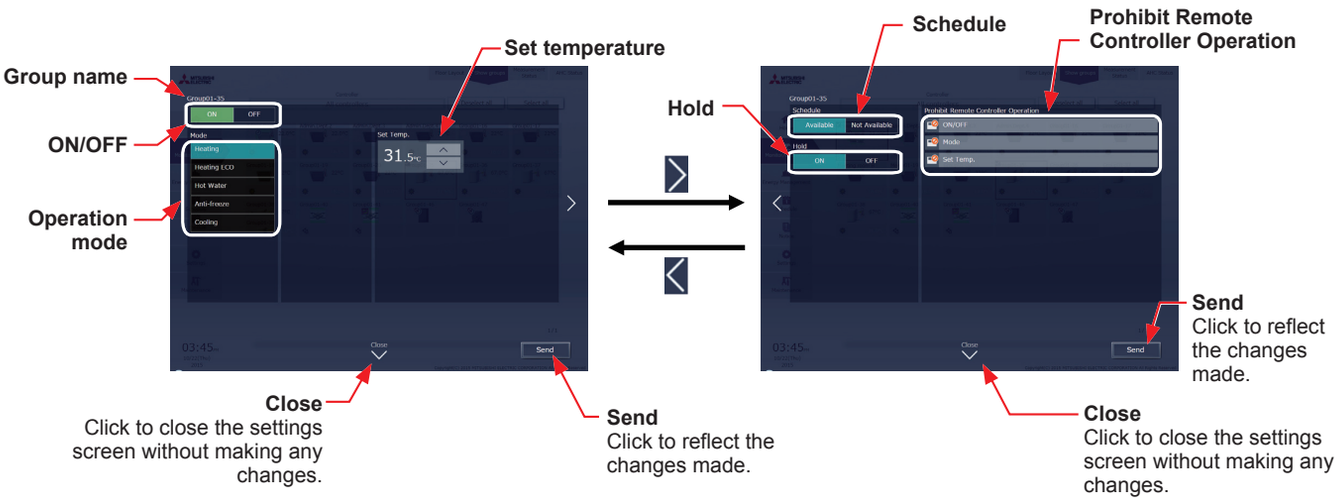


[2] LOSSNAY unit (ventilator) group



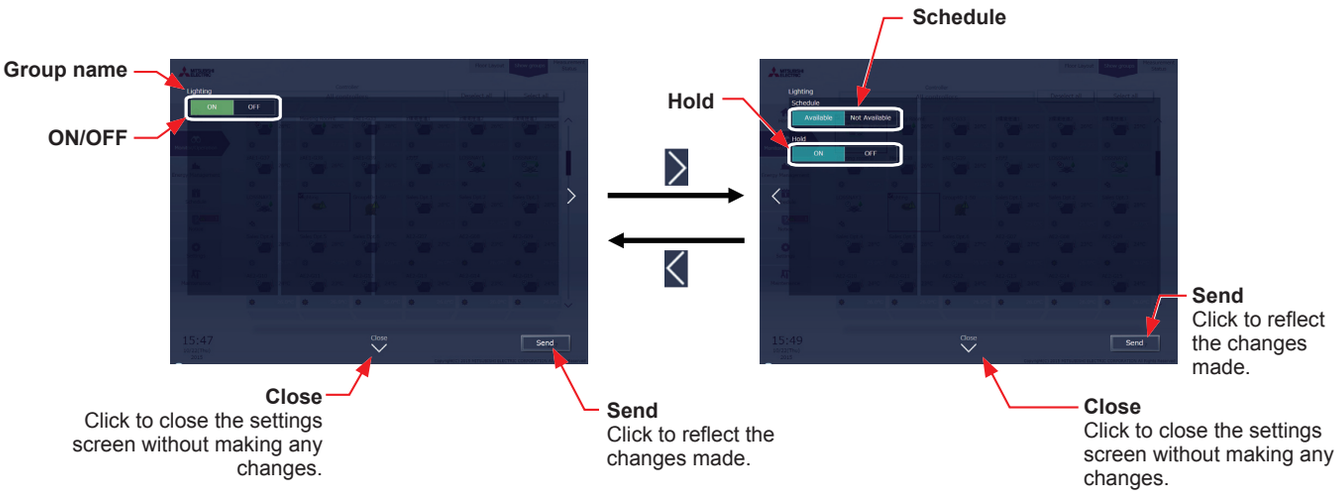
Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units. Note: If the units are turned off during the Night Purge operation, the Night Purge operation will not be performed until the next day.
Ventilation mode	Select a ventilation mode.	Click the desired ventilation mode. [Bypass], [Heat Recovery], [Auto] Note: This item will not appear during the Night Purge operation.
Fan Speed	Adjust the fan speed with the ∧ ∨ buttons.	 Note: During the Night Purge operation, the fan speed can be adjusted but  will not be displayed.
Humidify	Select [ON], [OFF], or [Auto].	Switches the operation status of the humidification function. Note: This item will not appear during the Night Purge operation.
Schedule	Select [Available] or [Not Available].	Enables/Disables the schedules. Note: When [Not Available] is set, the scheduled operations are disabled even if schedules are set.
Hold	Select [ON] or [OFF].	Enables/Disables the Hold function. When the Hold function is enabled, the scheduled operations are disabled. Note: The operations that have been scheduled on the remote controller will also be disabled. Note: [Hold type] can be specified in the [Advanced] screen in the initial settings. Refer to the Instruction Book (Initial Settings) for details. Note: The Hold function can be used on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Filter Sign Reset	Select [Reset] and click [Send].	Resets the filter sign. (The cumulative time will be reset.) When resetting, ensure the check mark is displayed as “  ”. Note: Reset the filter sign after cleaning the filter. Note: After the filter sign is reset, it takes up to an hour to clear the filter sign display on the local remote controllers.
Prohibit Remote Controller Operation	Click the operation item to switch the setting between “Prohibit” and “Permit”.	The following operations or setting change can be prohibited from the local remote controllers and when the Integrated Centralized Control Web is logged in with general user privileges: ON/OFF and Filter Sign Reset.  : Permit  : Prohibit
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

[3] Air To Water (PWFY) unit group



Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units.
Operation mode	Select an operation mode.	Click the desired operation mode. [Heating], [Heating ECO], [Hot Water], [Anti-freeze], [Cooling]
Set temperature	Adjust the set temperature with the ∧ ∨ buttons.	The settable temperature ranges depend on the operation mode and the unit model.
Schedule	Select [Available] or [Not Available].	Enables/Disables the schedules. Note: When [Not Available] is set, the scheduled operations are disabled even if schedules are set.
Hold	Select [ON] or [OFF].	Enables/Disables the Hold function. When the Hold function is enabled, the scheduled operations are disabled. Note: The operations that have been scheduled on the remote controller will also be disabled. Note: [Hold type] can be specified in the [Advanced] screen in the initial settings. Refer to the Instruction Book (Initial Settings) for details. Note: The Hold function can be used on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Prohibit Remote Controller Operation	Click the operation item to switch the setting between “Prohibit” and “Permit”.	The following operations or setting change can be prohibited from the local remote controllers and when the Integrated Centralized Control Web is logged in with general user privileges: ON/OFF, Operation mode, and Set temperature. : Permit : Prohibit
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

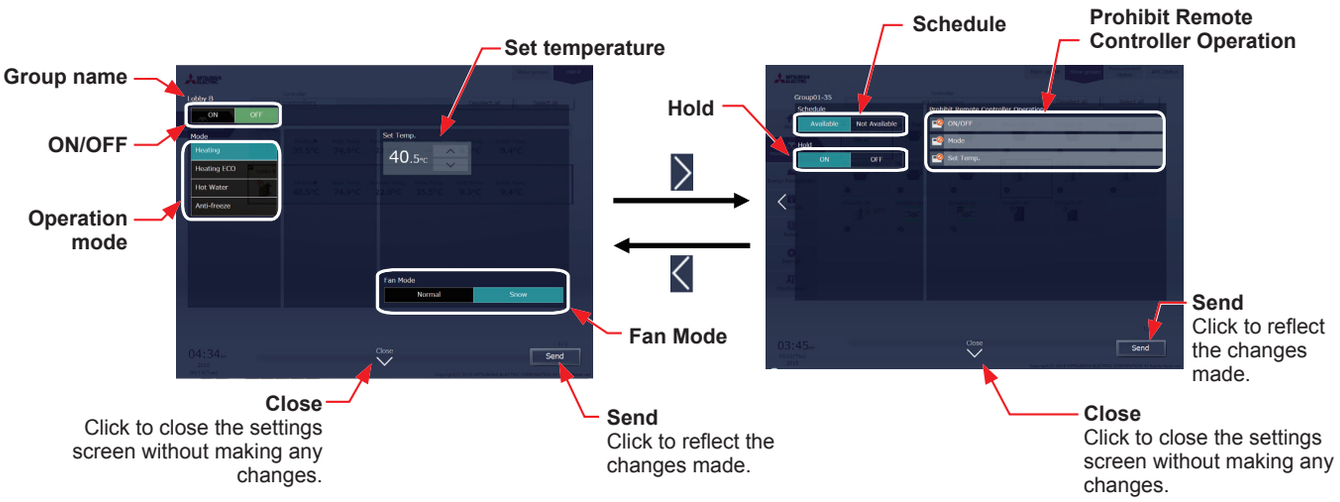
[4] Other equipment group



Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units.
Schedule	Select [Available] or [Not Available].	Enables/Disables the schedules. Note: When [Not Available] is set, the scheduled operations are disabled even if schedules are set.
Hold	Select [ON] or [OFF].	Enables/Disables the Hold function. When the Hold function is enabled, the scheduled operations are disabled. Note: The operations that have been scheduled on the remote controller will also be disabled. Note: [Hold type] can be specified in the [Advanced] screen in the initial settings. Refer to the Instruction Book (Initial Settings) for details. Note: The Hold function can be used on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

Note: General equipment whose prohibition setting is enabled (“Allow operations” is set to [No operations] on the group settings screen in the initial settings) cannot be operated and an operation prohibition mark is displayed. Refer to the Instruction Book (Initial Settings) for settings methods.

[5] HWHP (CAHV, CRHV) unit group



Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units.
Operation mode	Select an operation mode.	Click the desired operation mode. [Heating], [Heating ECO], [Hot Water], [Anti-freeze]
Set temperature	Adjust the set temperature with the ∧ ∨ buttons.	The settable temperature ranges depend on the operation mode and the unit model.
Schedule	Select [Available] or [Not Available].	Enables/Disables the schedules. Note:When [Not Available] is set, the scheduled operations are disabled even if schedules are set.
Hold	Select [ON] or [OFF].	Enables/Disables the Hold function. When the Hold function is enabled, the scheduled operations are disabled. Note: The operations that have been scheduled on the remote controller will also be disabled. Note: [Hold type] can be specified in the [Advanced] screen in the initial settings. Refer to the Instruction Book (Initial Settings) for details. Note: The Hold function can be used on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Fan Mode	Select [Normal] or [Snow].	This item will appear only on the operation settings screen for HWHP (CAHV) unit groups. The fan can be set to keep rotating even while the unit is stopped to avoid snow accumulation on the fan guard during the winter. Select [Normal] to stop the fan while the unit is stopped. Select [Snow] to operate the fan even while the unit is stopped. Note: The fan mode for CRHV units cannot be operated.
Prohibit Remote Controller Operation	Click the operation item to switch the setting between “Prohibit” and “Permit”.	The following operations or setting change can be prohibited from the local remote controllers and when the Integrated Centralized Control Web is logged in with general user privileges: ON/OFF, Operation mode, and Set temperature. : Permit : Prohibit
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

1-2. Energy management

The energy-control-related status, such as electric energy consumption, operation time, and outdoor temperature, can be displayed in a graph. Also, preset target value of the electric energy consumption can be checked.

Note: Energy use status data and ranking data can be output in a CSV format.

Note: Output to CSV is only possible on a PC. Output from tablet (Android, iOS tablet) is not possible and the [Download] button is not displayed.

Note: File names, as well as date formats, delimiter characters, and temperature units (°C, °F) within the files output as CSV will use formats set as initial settings. Refer to the Instruction Book (Initial Settings) for settings methods.

Note: For the file name and AE No. within the files output as CSV, refer to 4 “Name Display” in Chapter 1.

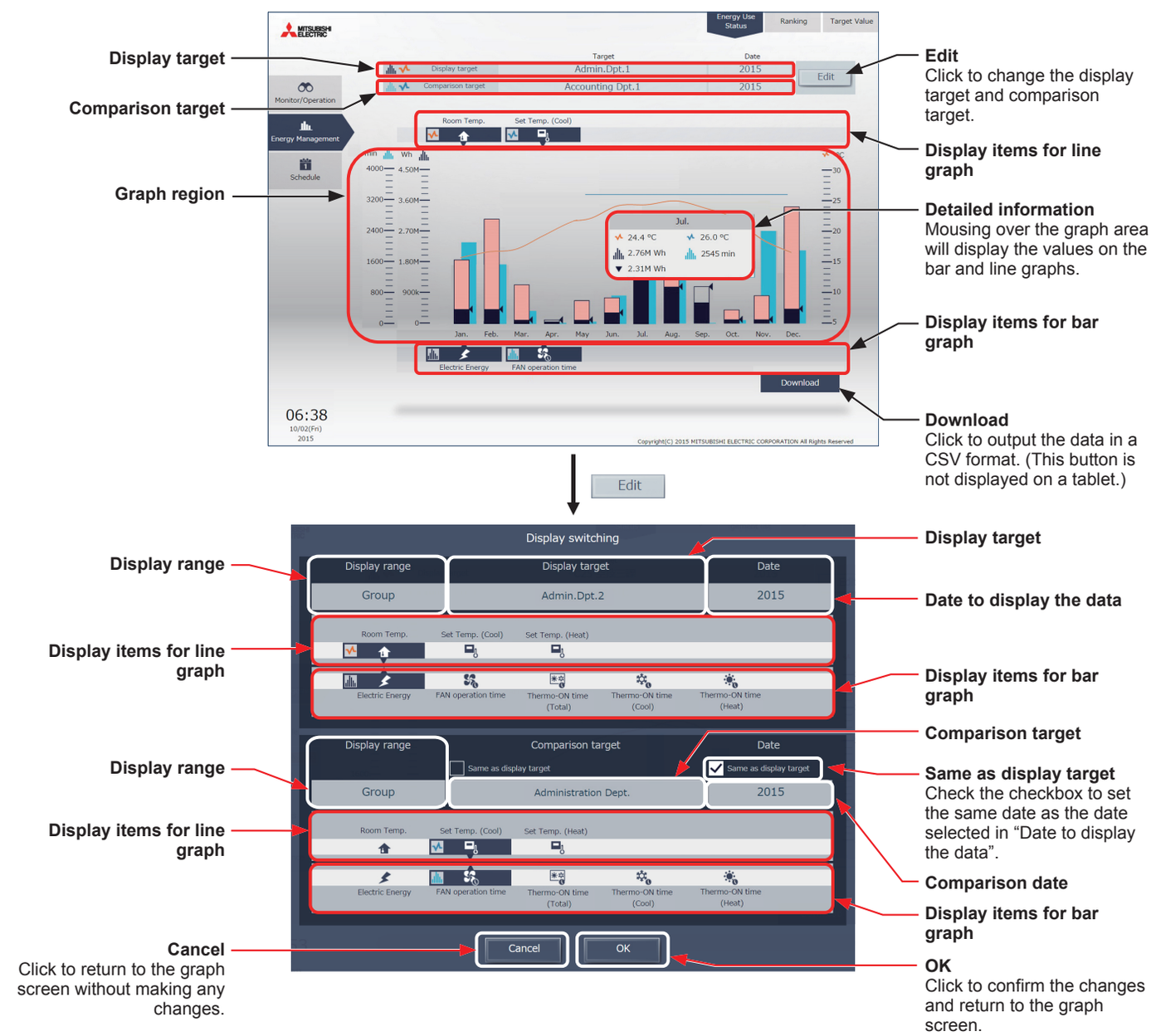
Important

- Energy management settings and measurement settings are required beforehand to display a graph. Refer to the Instruction Book (Initial Settings) for settings methods.

1-2-1. Energy Use Status

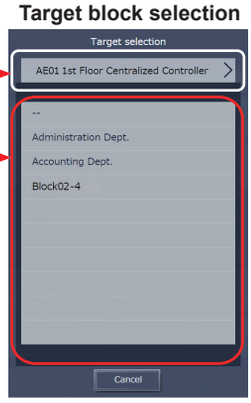
On the Energy Use Status screen, the energy-control-related status, such as electric energy consumption, operation time, and room temperature, can be displayed in a graph. Operators can check the detailed status of given indoor units by specifying the date to display the data per unit address, group, block, or energy management block.
Also, the status of other indoor units can be displayed at the same time for comparison.
Displaying energy-control-related status of each hour, day, and month in a graph visualizes the energy-saving status.
Click [Energy Management] in the menu, and then click [Energy Use Status] to access the Energy Use Status screen.

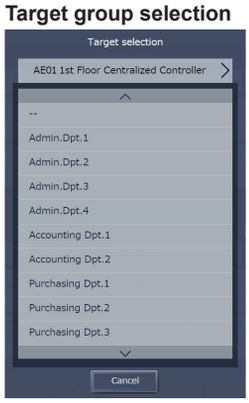
(1) Click [Edit] to set the display items.

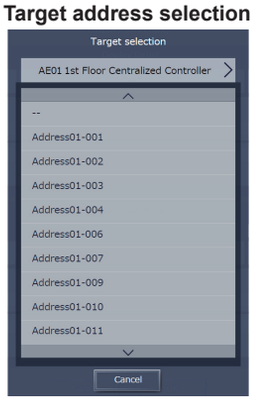


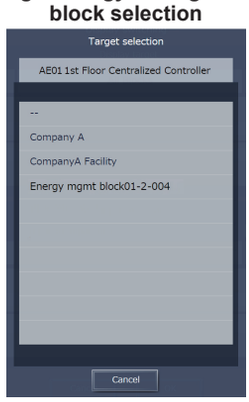
<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Display range</td><td>Select [Block], [Group], [Address], or [Energy management block] to display its data.</td></tr>
<tr><td>Display target</td><td>
Select a centralized controller, and then select a block, group, address, or energy management block to display its data.

Out of the units that are under the control of the centralized controller selected in [Centralized controller selection], only the blocks and energy management blocks to which the unit groups managed by tenant managers belong are displayed.

Target block selection
Centralized controller selection
Display target selection


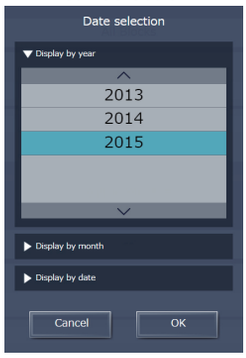
Target group selection


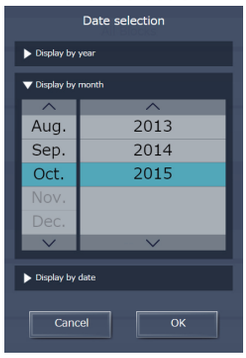
Target address selection


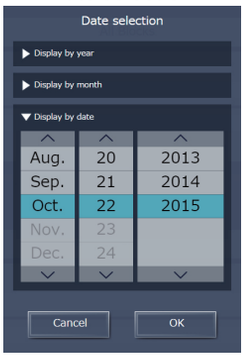
Target energy management block selection


Note: Tenant managers cannot select all blocks at once in the target block selection screen.
Note: When the display range is [Address], unit addresses are displayed. Names cannot be registered.
Note: When the name has not been registered, the display varies with the display range setting as follows.
<table>
<tr><th>Display range</th><th>Name display</th></tr>
<tr><td>Block</td><td>“Block” + AE No. *1 + Block number</td></tr>
<tr><td>Group</td><td>“Group” + AE No. *1 + Group number</td></tr>
<tr><td>Energy management block</td><td>“Energy mgmt block” + AE No. *1 + Energy management block number</td></tr>
</table>
*1 For AE No., refer to 4 “Name Display” in Chapter 1.
Note: Blocks and groups of DIDO controllers (PAC-YG66DCA) are not displayed.
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Date to display the data</td><td>
Click [Date] to specify a date to display the data. The date can be specified as daily, monthly, or yearly.

Year selection


Month selection


Date selection


Note: The storage period of the energy use status data is as follows.
<table>
<tr><th>Date selection</th><th>Data storage period</th></tr>
<tr><td>Year</td><td>The current year and the last 24 months</td></tr>
<tr><td>Month</td><td>The current month and the last 24 months</td></tr>
<tr><td>Date</td><td>The current day and the last 24 months</td></tr>
</table>
</td></tr>
<tr><td>Comparison target</td><td>Select a block name, group name, address number, or energy management block name to display the comparison data. (The comparison target selection screen is the same as the display target selection screen.)</td></tr>
<tr><td>Comparison date</td><td>Specify a date to display the comparison data. (The comparison date selection screen is the same as the display target date selection screen.)</td></tr>
<tr><td>Display items for bar graph</td><td>
Select an item to display its data in the bar graph.
Select a display range from [Block], [Group], [Address], or [Energy management block] to display its data. The selectable items vary, depending on the display range. Only the items that can be displayed in the graph appear. Refer to the table below for details.

  Display items for bar graph

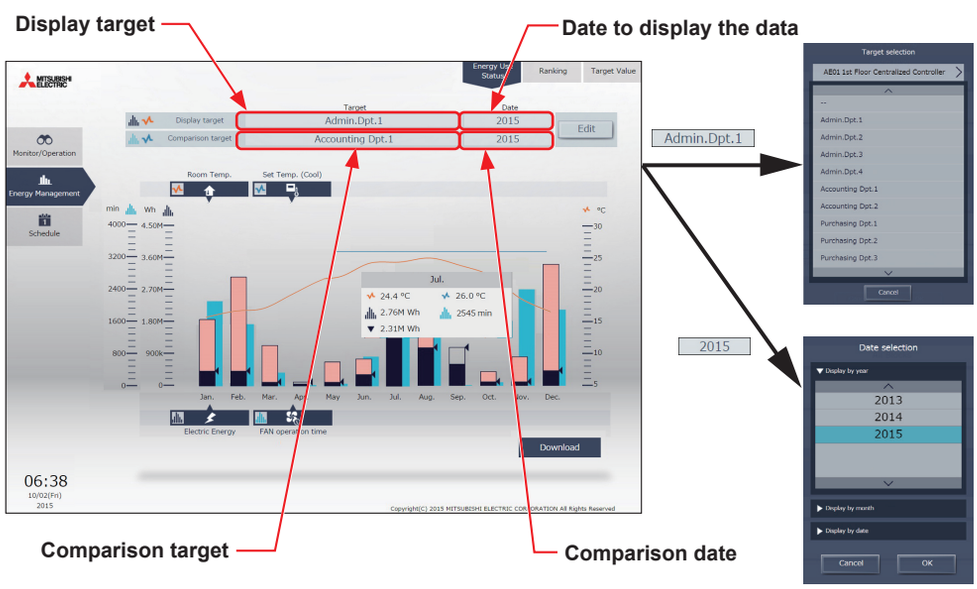
■ Indoor unit
<table>
<tr><th>Display range</th><th colspan="5">Display item</th></tr>
<tr><td>Address *5</td><td rowspan="4">*1 *2
Electric Energy</td><td>*3 *4
FAN operation time</td><td>*3
Thermo-ON time (Total)</td><td>*3
Thermo-ON time (Cool)</td><td>*3
Thermo-ON time (Heat)</td></tr>
<tr><td>Group *5</td><td rowspan="3"></td><td rowspan="3"></td><td rowspan="3"></td><td rowspan="3"></td></tr>
<tr><td>Block *5</td></tr>
<tr><td>Energy management block *5</td></tr>
</table>
*1 The electric energy (kWh) consumed by indoor units will appear in the graph. The values are apportioned based on the setting for “Indoor unit operation apportioning mode”. Refer to the Instruction Book (Initial Settings) for the “Indoor unit operation apportioning mode” setting.
*2 A small amount of electric energy consumption (kWh) may appear in the graph even when no indoor units have been operated. This is because the standby electric energy is apportioned, which is normal.
*3 The indoor unit’s cumulative operation time (minute) for the selected item will appear in the graph.
• “FAN operation time” is the cumulative duration of time in which the indoor unit is ON.
• “Thermo-ON time (Total/Cool/Heat)” is the cumulative duration of time in which the refrigerant is flowing into the indoor unit. (Cool: when the Cool mode is selected; Heat: when the Heat mode is selected; Total: when either mode is selected)
*4 Only “FAN operation time” is displayed for LOSSNAY units.
*5 “Energy Management License Pack” is required. (AE-200E/AE-50E/EW-50E only)
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Display items for line graph</td><td>
Select an item to display its data in the line graph.
Note: When the display range is [Block] or [Energy Management Block], display items for line graph are not displayed.
Note: If “Energy Management License Pack” is not registered, line graph cannot be selected. (AE-200E/AE-50E/EW-50E only)

Display items for line graph

■ Indoor unit
<table>
<tr><th>Display range</th><th colspan="3">Display item</th></tr>
<tr><td>Address
Group</td><td>Room Temp. *1</td><td>Set Temp. (Cool) *1</td><td>Set Temp. (Heat) *1</td></tr>
</table>
*1 When [Day] is selected as a date, the temperature values obtained every hour and half hour will appear. When [Month] is selected, the average daily temperature values will appear. When [Year] is selected, the average monthly temperature values will appear.
</td></tr>
</table>

Note: By quickly switching to items displayed on a graph and dates, it is possible to confirm the energy usage status.



(1) To switch the display target

Click [Display target] or [Comparison target] to display the target selection screen, and switch to the items to display on a graph.

It is not possible to switch to [Display target] and [Comparison target] that have a display range different from before switching.

(2) To switch the date

Click [Date to display the data] or [Comparison date] to display the date selection screen, and switch to the dates to display on a graph. Ensure that the [Date to display the data] and the [Comparison date] units are the same.

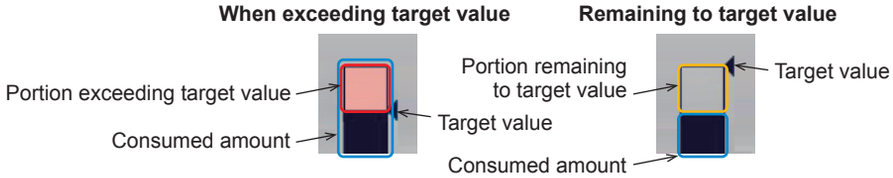
(2) Click [OK] to return to the previous screen.
The display target data and the comparison target data will appear in a bar graph and a line graph.

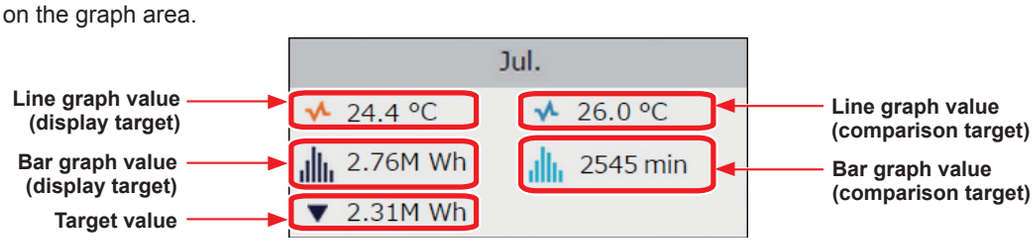
<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Graph region</td><td>
■ Bar graph/line graph
<table>
<tr><th></th><th>Display target</th><th>Comparison target</th><th>Target value *1</th></tr>
<tr><td>Bar graph</td><td>(Blue)</td><td>(Light blue)</td><td></td></tr>
<tr><td>Line graph</td><td>(Orange)</td><td>(Blue)</td><td></td></tr>
</table>
*1 The target values will appear in the graph when “Block” or “Energy management block” is selected as a display range and when [Electric Energy] is selected as a display item for bar graph.

Note: The data for a certain period of time may not appear if it does not exist due to the changes of the daylight saving time setting or current time setting.
If the data overlap for a certain period of time due to the time overlap that was occurred when daylight saving ended or the current time setting was changed, the newer data will appear in the graph.

Note: When the date is specified as daily, the graph is shown in 30-minute increments.

Note: When the target value is set, areas exceeding the target value will be displayed in pink.

When exceeding target value Remaining to target value


■ Detailed information
Mouse over the graph area to display the values on the bar graph and line graph for the dates moused over on the graph area.


</td></tr>
</table>

(3) To output the displayed measurement data in a CSV format, click [Download].
The file name and file format will vary as shown below, depending on the selected date range.

Note: This function cannot be used on a tablet.

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>File name</td><td>
<When any item in the “Comparison target” field is selected>
Date range: Year
EM_AnnualTrend_[yyyy]_[Display target]_[Bar graph type]_[Line graph type]_[YYYY]_[Comparison target]_[Bar graph type]_[Line graph type].csv

Date range: Month
EM_MonthlyTrend_[yyyy]-[mm]_[Display target]_[Bar graph type]_[Line graph type]_[YYYY]-[MM]_[Comparison target]_[Bar graph type]_[Line graph type].csv

Date range: Day
EM_DailyTrend_[yyyy]-[mm]-[dd]_[Display target]_[Bar graph type]_[Line graph type]_[YYYY]-[MM]-[DD]_[Comparison target]_[Bar graph type]_[Line graph type].csv

<When no item in the “Comparison target” field is selected>
Date range: Year
EM_AnnualTrend_[yyyy]_[Display target]_[Bar graph type]_[Line graph type].csv

Date range: Month
EM_MonthlyTrend_[yyyy]-[mm]_[Display target]_[Bar graph type]_[Line graph type].csv

Date range: Day
EM_DailyTrend_[yyyy]-[mm]-[dd]_[Display target]_[Bar graph type]_[Line graph type].csv
<table>
<tr><th>File-name contents</th><th colspan="2">Format</th></tr>
<tr><td>[yyyy]</td><td colspan="2">The year specified in the “Date to display the data” field</td></tr>
<tr><td>[mm]</td><td colspan="2">The month specified in the “Date to display the data” field</td></tr>
<tr><td>[dd]</td><td colspan="2">The date specified in the “Date to display the data” field</td></tr>
<tr><td rowspan="4">[Display target] *1</td><td>Address</td><td>AE No. + “_” + “A” + M-NET address (001–050) + “_” + “00”</td></tr>
<tr><td>Group</td><td>AE No. + “_” + “G” + Group No. (001–050) + “_” + “00”</td></tr>
<tr><td>Block</td><td>AE No. + “_” + “B” + Block No. (001–050) + “_” + “00”</td></tr>
<tr><td>Energy management block</td><td>AE No. + “_” + “E” + Energy management block No. (001–200) + “_” + “00”</td></tr>
<tr><td rowspan="8">[Bar graph type]</td><td colspan="2">B01: Indoor unit electric energy</td></tr>
<tr><td colspan="2">B02: Fan operation time</td></tr>
<tr><td colspan="2">B03: Thermo-ON time (Total)</td></tr>
<tr><td colspan="2">B04: Thermo-ON time (Cool)</td></tr>
<tr><td colspan="2">B05: Thermo-ON time (Heat)</td></tr>
<tr><td colspan="2">B00: No selection</td></tr>
<tr><td colspan="2">B000: Unregistered blocks</td></tr>
<tr><td rowspan="4">[Line graph type]</td><td colspan="2">L01: Set temperature (Cool)</td></tr>
<tr><td colspan="2">L02: Set temperature (Heat)</td></tr>
<tr><td colspan="2">L03: Room temperature</td></tr>
<tr><td colspan="2">L00: No selection</td></tr>
<tr><td>[YYYY]</td><td colspan="2">The year specified in the “Comparison date” field</td></tr>
<tr><td>[MM]</td><td colspan="2">The month specified in the “Comparison date” field</td></tr>
<tr><td>[DD]</td><td colspan="2">The date specified in the “Comparison date” field</td></tr>
<tr><td rowspan="4">[Comparison target]</td><td>Address</td><td rowspan="4">The same output format as for display target</td></tr>
<tr><td>Group</td></tr>
<tr><td>Block</td></tr>
<tr><td>Energy management block</td></tr>
<tr><td>[Bar graph type]</td><td colspan="2">The type of the item selected for the bar graph display item for comparison target</td></tr>
<tr><td>[Line graph type]</td><td colspan="2">The type of the item selected for the line graph display item for comparison target</td></tr>
</table>
*1 For AE No., refer to 4 “Name Display” in Chapter 1.
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>File format</td><td>
<table>
<tr><th>Row</th><th>Item</th><th>Date range</th><th colspan="2">Format</th></tr>
<tr><td rowspan="3">1st</td><td rowspan="3">File Type</td><td>Year</td><td colspan="2">413</td></tr>
<tr><td>Month</td><td colspan="2">412</td></tr>
<tr><td>Day</td><td colspan="2">411</td></tr>
<tr><td rowspan="3">2nd</td><td rowspan="3">Date</td><td>Year</td><td colspan="2">yyyy:YYYY</td></tr>
<tr><td>Month</td><td colspan="2">yyyy/mm:YYYY/MM</td></tr>
<tr><td>Day</td><td colspan="2">yyyy/mm/dd:YYYY/MM/DD</td></tr>
<tr><td rowspan="4">3rd</td><td rowspan="4">Display target/ Comparison target *5</td><td colspan="2">Address</td><td>“Address” + AE No.*3 + “_” + M-NET address (001–050)</td></tr>
<tr><td colspan="2">Group</td><td>Group name*2</td></tr>
<tr><td colspan="2">Block</td><td>Block name*2</td></tr>
<tr><td colspan="2">Energy management block</td><td>Energy management block name*2</td></tr>
<tr><td>4th</td><td>Measurement item</td><td colspan="3">■ Date range: Year
“Month”, Display target (Bar), Comparison target (Bar), “Target electric energy[kWh]”*1, Display target (Line), Comparison target (Line)
■ Date range: Month
“Day”, Display target (Bar), Comparison target (Bar), “Target electric energy[kWh]”*1, Display target (Line), Comparison target (Line)
■ Date range: Day
“Time”, Display target (Bar), Comparison target (Bar), “Target electric energy[kWh]”*1, Display target (Line), Comparison target (Line)

The bar and line graph items that can be output vary with the display target/ comparison target.
V: Item that can be output; –: Item that cannot be output
<table>
<tr><th>Display target/Comparison target</th><th>Bar graph</th><th>Line graph</th></tr>
<tr><td>Address/Indoor unit</td><td>V</td><td>V</td></tr>
<tr><td>Group</td><td>V</td><td>V</td></tr>
<tr><td>Block</td><td>V</td><td>–</td></tr>
<tr><td>Energy management block</td><td>V</td><td>–</td></tr>
</table>
The format of the display target and comparison target to be output is as follows.
■ Address
“Address” + “-” + AE No.*3 + Address number + “-” + Display item (Bar/Line)
■ Group
Group name*2 + “-” + Display item (Bar/Line)
■ Block
Block name*2 + “-” + Display item (Bar)
■ Energy management block
Energy management block name*2 + “-” + Display item (Bar)</td></tr>
<tr><td rowspan="3">5th–*4</td><td rowspan="3">Data</td><td>Year</td><td>mm,</td><td rowspan="3">Data value (Bar), Comparison data value (Bar), Target electric energy value*1, Data value (Line), Comparison data value (Line)</td></tr>
<tr><td>Month</td><td>dd,</td></tr>
<tr><td>Day</td><td>hh:mm,</td></tr>
</table>
*1 “Target electric energy(kWh)” and the target electric energy value will appear only when the data is displayed in the graph.
*2 If the group name has not been registered, [“Group” + AE No. + “-” + Group number] will appear. If the block name has not been registered, [“Block” + AE No. + “-” + Block number] will appear. If the energy management block name has not been registered, [“Energy mgmt block” + AE No. + “-” + Energy management block number] will appear.
*3 For AE No., refer to 4 “Name Display” in Chapter 1.
*4 The number of rows varies with the selected date range. (Day: 5th–52nd; Month: 5th–35th; Year: 5th–16th)
*5 When no item is selected as a display item/comparison item, “Target None” will appear.
</td></tr>
</table>

Item	Description
File sample (Display range: Block)	Date range: Year 413 2015:2014 Administration Dpt./Block01-1-03 Month,Administration Dpt. - Indoor Unit Electric Energy[kWh],Block01-1-03 - Indoor Unit Electric Energy[kWh],Target electric energy[kWh],Administration Dpt. - Outdoor Temp.[ºC],Block01-1-03 - Outdoor Temp.[ºC] 1,675.17,661.93,600,0.4,0.5 2,697.38,683.71,700,0.3,3.2 3,528.63,518.26,400,4.5,3.8 Date range: Month 412 2015/04:2014/04 Administration Dpt./Block01-1-03 Day,Administration Dpt. - Indoor Unit Electric Energy[kWh],Block01-1-03 - Indoor Unit Electric Energy[kWh],Target electric energy[kWh],Administration Dpt. - Outdoor Temp.[ºC],Block01-1-03 - Outdoor Temp.[ºC] 1,24.69,8.74,22,26.2,17.9 2,25.31,8.22,22,27,17.4 3,12.36,22.33,10,25.2,16.6 Date range: Day 411 2015/08/19:2014/06/01 Administration Dpt./Block01-1-03 Time,Administration Dpt. - Indoor Unit Electric Energy[kWh],Block01-1-03 - Indoor Unit Electric Energy[kWh],Administration Dpt. - Outdoor Temp.[ºC],Block01-1-03 - Outdoor Temp.[ºC] 0:00,0.61,0.25,23.2,17.8 1:00,0.65,0.51,23.1,17.6 2:00,0.66,0.48,22.1,18.1

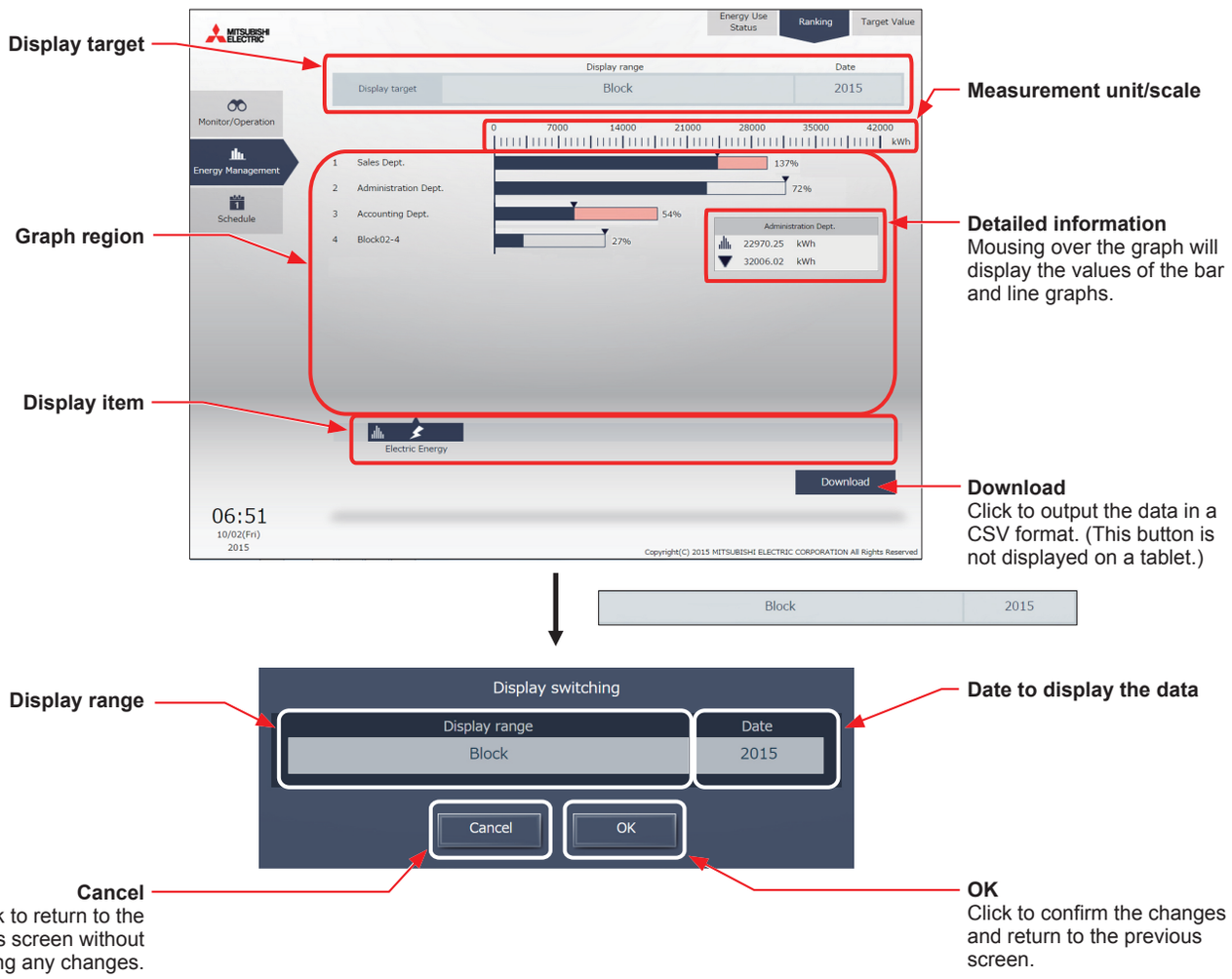
1-2-2. Ranking

On the Ranking screen, the rankings in electric energy consumption, fan operation time, and Thermo-ON time (Total/Cool/Heat) of given indoor units (managed by the tenant manager that logged in to the Integrated Centralized Control Web) can be displayed per block, group, unit address, and energy management block in descending order in the bar graph.

Click [Energy Mgmt] in the menu, and then click [Ranking] to access the Ranking screen.

Note: “Energy Management License Pack” is required to access the Ranking screen. (AE-200E/AE-50E/EW-50E only)

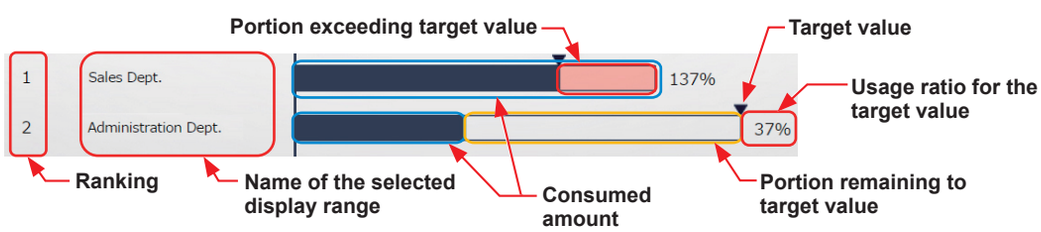
(1) Click [Display target] to set the display items.

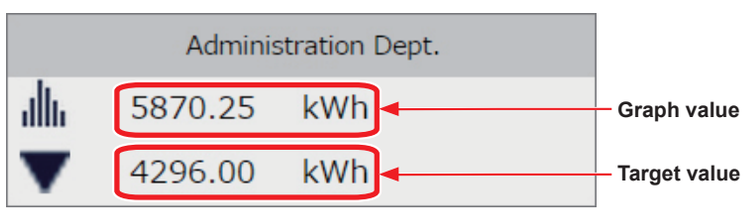


Item	Description
Display target	“Display range” and “date” to display a ranking graph are displayed.
Display range	Select [Block], [Group], [Address], or [Energy management block] to display its data in a ranking graph.
Date	Specify a date to display the data in a ranking graph. Click to display the screen to select “year”, “month”, or “day”. Note: When “year” is specified, specify “yyyy” from the current year or the last 5 years. When “month” is specified, specify “yyyy/mm” from the current month or the last 24 months. When “day” is specified, specify “yyyy/mm/dd” from the current day or the last 24 months. Important: Only the data for the period during which the AE-200/AE-50/EW-50 was powered on will appear in the graph. The data for the period during which the AE-200/AE-50/EW-50 was powered off will not appear in the graph.

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Display item</td><td>Select an item to display its data in a ranking graph.
Note: The selectable items vary, depending on the item selected in the “Display range” field.
<table>
<tr><th>Display range</th><th colspan="5">Display item</th></tr>
<tr><td>Address</td><td rowspan="4">Electric Energy</td><td>FAN operation time</td><td>Thermo-ON time (Total)</td><td>Thermo-ON time (Cool)</td><td>Thermo-ON time (Heat)</td></tr>
<tr><td>Group</td><td rowspan="3"></td><td rowspan="3"></td><td rowspan="3"></td><td rowspan="3"></td></tr>
<tr><td>Block</td></tr>
<tr><td>Energy management block</td></tr>
</table></td></tr>
<tr><td>Measurement unit/scale</td><td>The graph shows the measurement unit that is suitable for the selected display item, and scale that is automatically adjusted to show the full range of data.</td></tr>
</table>

(2) Click [OK] to return to the previous screen.
The graph will be created based on the specified criteria.

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Graph region</td><td>■ Ranking graph
 

Note: Target value will appear only when [Energy management block] or [Block] is selected.
Note: Target value will not appear when the target value is not set or set to “0”.
■ Detailed information
Mouse over the graph area to display the values on the graph for the area moused over on the graph area.
 
</td></tr>
</table>

(3) To output the displayed ranking data in a CSV format, click [Download].
The file name and file format will vary as shown below, depending on the selected date range.

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>File name</td><td>
Date range: Year
EM_AnnualRanking_[yyyy]_[Display range]_[Ranking graph type].csv

Date range: Month
EM_MonthlyRanking_[yyyy]-[mm]_[Display range]_[Ranking graph type].csv

Date range: Day
EM_DailyRanking_[yyyy]-[mm]-[dd]_[Display range]_[Ranking graph type].csv
<table>
<tr><th>File-name contents</th><th colspan="2">Format</th></tr>
<tr><td>[yyyy]</td><td colspan="2">The year specified in the [Date] field</td></tr>
<tr><td>[mm]</td><td colspan="2">The month specified in the [Date] field</td></tr>
<tr><td>[dd]</td><td colspan="2">The date specified in the [Date] field</td></tr>
<tr><td rowspan="4">[Display range]</td><td>Address</td><td>“A999”</td></tr>
<tr><td>Group</td><td>“G999”</td></tr>
<tr><td>Block</td><td>“B999”</td></tr>
<tr><td>Energy management block</td><td>“E999”</td></tr>
<tr><td rowspan="5">[Ranking graph type]</td><td colspan="2">B01: Indoor unit electric energy</td></tr>
<tr><td colspan="2">B02: Fan operation time</td></tr>
<tr><td colspan="2">B03: Thermo-ON time (Total)</td></tr>
<tr><td colspan="2">B04: Thermo-ON time (Cool)</td></tr>
<tr><td colspan="2">B05: Thermo-ON time (Heat)</td></tr>
</table>
</td></tr>
<tr><td>File format</td><td>
<table>
<tr><th>Row</th><th>Item</th><th>Date range</th><th colspan="2">Format</th></tr>
<tr><td rowspan="3">1st</td><td rowspan="3">File Type</td><td>Year</td><td colspan="2">416</td></tr>
<tr><td>Month</td><td colspan="2">415</td></tr>
<tr><td>Day</td><td colspan="2">414</td></tr>
<tr><td rowspan="3">2nd</td><td rowspan="3">Date</td><td>Year</td><td colspan="2">yyyy</td></tr>
<tr><td>Month</td><td colspan="2">yyyy/mm</td></tr>
<tr><td>Day</td><td colspan="2">yyyy/mm/dd</td></tr>
<tr><td rowspan="4">3rd</td><td rowspan="4" colspan="2">Display range</td><td>Address</td><td>“All Addresses”</td></tr>
<tr><td>Group</td><td>“All Groups”</td></tr>
<tr><td>Block</td><td>“All Blocks”</td></tr>
<tr><td>Energy management block</td><td>“All EM Blocks”</td></tr>
<tr><td rowspan="4">4th</td><td rowspan="4" colspan="2">Measurement item</td><td>Address</td><td>“Address number”, Display item</td></tr>
<tr><td>Group</td><td>“Group name”*1, Display item</td></tr>
<tr><td>Block</td><td>“Block name”*1, Display item, “Target electric energy[kWh]”*2</td></tr>
<tr><td>Energy management block</td><td>“Ene Block name”*1, Display item, “Target electric energy[kWh]”*2</td></tr>
<tr><td rowspan="4">5th–28th</td><td rowspan="4" colspan="2">Data</td><td>Address</td><td>Address number, Data value</td></tr>
<tr><td>Group</td><td>Group name*1, Data value</td></tr>
<tr><td>Block</td><td>Block name*1, Data value, Target electric energy value*2</td></tr>
<tr><td>Energy management block</td><td>Energy management block name*1, Data value, Target electric energy value*2</td></tr>
</table>
*1 If the group name has not been registered, [“Group” + AE No. + “-” + group number] will appear. If the block name has not been registered, [“Block” + AE No. + “-” + block number] will appear. If the energy management block name has not been registered, [“Energy mgmt block” + AE No. + “-” + Energy management block number] will appear.
*2 “Target electric energy(kWh)” and the target electric energy value will appear only when the data is displayed in the graph.
</td></tr>
</table>

Item	Description
File sample (Display range: Block)	Date range: Year 416 2015 All Blocks Block name,Indoor Unit Electric Energy[kWh],Target electric energy[kWh] Administration Dept.,9370.68,7886.4 Block01-1-03,7283.76,6744.36 Unregistered Blocks,6327.72,7339.56 Block01-01,4166.4,6286.8 Block03-01-10,2302.68,1949.28 Accounting Dept.,2224.56,4077.12 Date range: Month 415 2015/06 All Blocks Block name,Indoor Unit Electric Energy[kWh],Target electric energy[kWh] Administration Dept.,780.89,657.2 Block01-1-03,606.98,562.03 Unregistered Blocks,527.31,611.63 Block01-01,347.2,523.9 Block03-01-10,191.89,162.44 Accounting Dept.,185.38,339.76 Date range: Day 414 2015/06/01 All Blocks Block name,Indoor Unit Electric Energy[kWh],Target electric energy[kWh] Administration Dept.,25.19,21.2 Block01-1-03,19.58,18.13 Unregistered Blocks,17.01,19.73 Block01-01,11.2,16.9 Block03-01-10,6.19,5.24 Accounting Dept.,5.98,10.96

1-2-3. Target Value

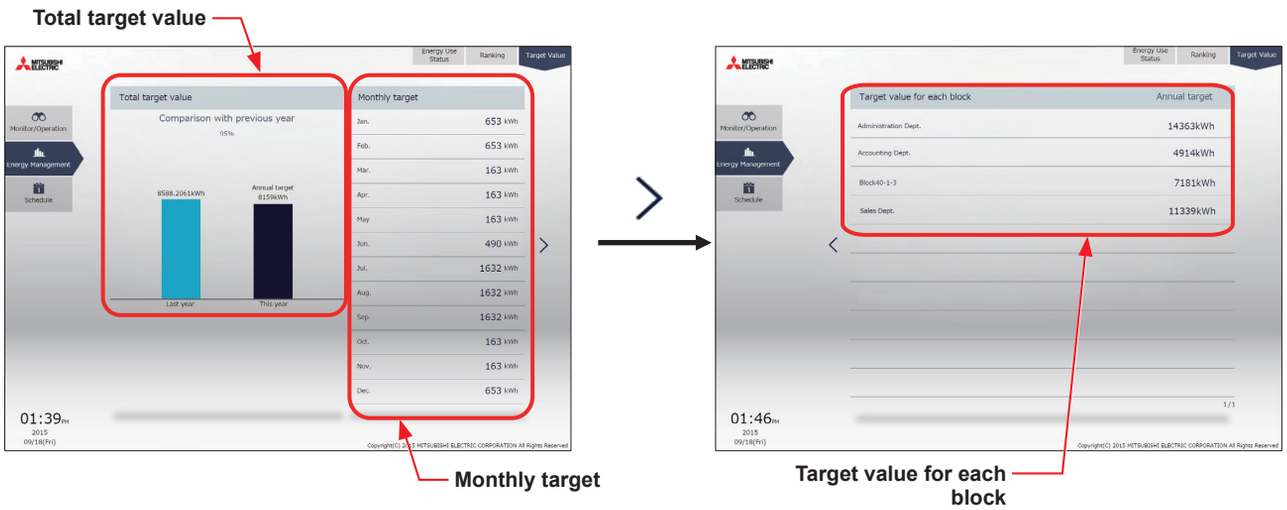
On the Target Value screen, target values that are displayed in the graph on the Energy Use Status screen and the Ranking screen can be checked.

Based on the total annual electric energy consumption, target values for each month, each day of the week, and each block are set.

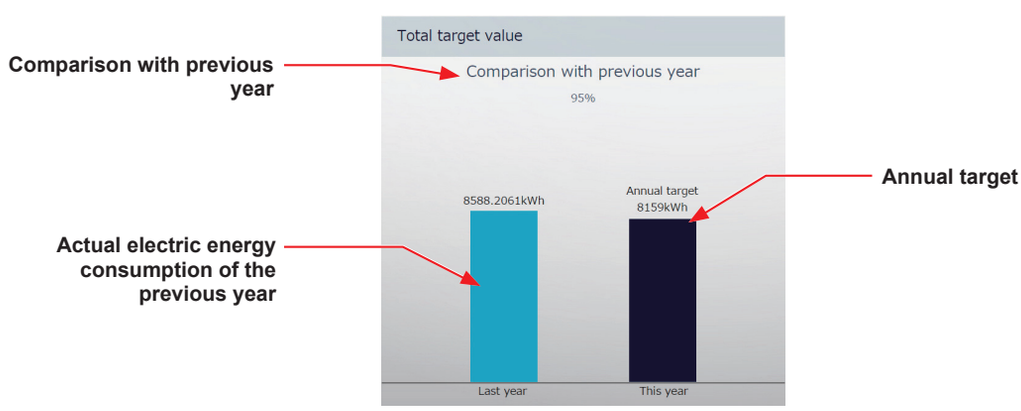
Click [Energy Mgmt] in the menu, and then click [Target Value] to access the Target Value screen.

Note: Target value settings can be configured on the AE-200/AE-50's LCD.

Note: Block registration is required for the air conditioning unit groups to be managed by tenant managers.



(1) Check the annual target electric energy value.



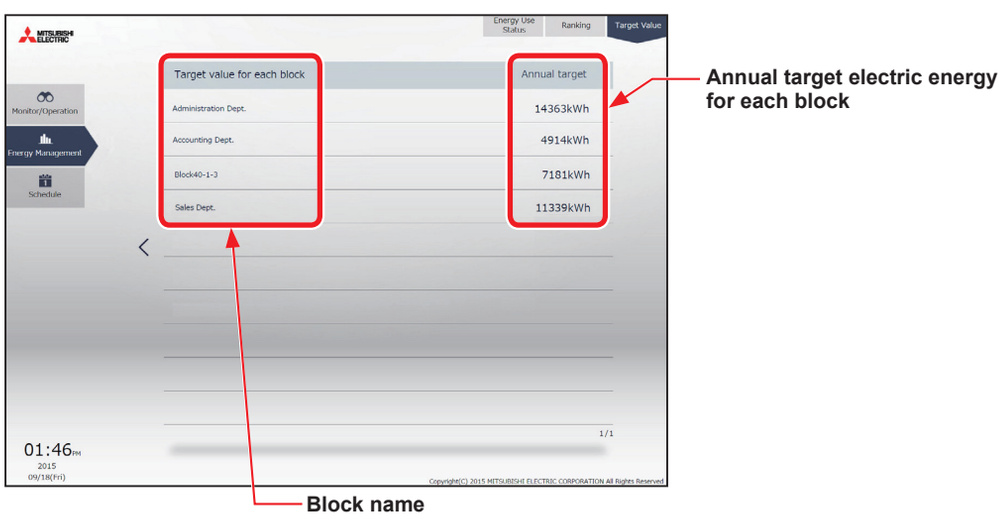
Item	Description
Annual target electric energy	The annual target electric energy consumption value is displayed.
Actual electric energy consumption of the previous year	The electric energy actually consumed in the previous year is displayed.
Comparison with previous year	The ratio of the annual target electric energy of the current year to the electric energy consumed in the previous year is displayed. Note: If there are results for the previous year, then at the new year, a comparison of the previous year's annual target electric energy and results will be displayed.

(2) Check the target electric energy values for each month.



Item	Description
Monthly target electric energy	Monthly target electric energy values for the air conditioning units managed by tenant managers are displayed.

(3) Check the target electric energy values for each block.



Item	Description
Block name	The names of all the registered blocks are displayed. Note: The blocks set for tenant manager management are displayed. Note: If the block name has not been registered, [AE No. + “Block” + Block number] is displayed.
Annual target electric energy for each block	The annual target electric energy values for each block will appear are displayed.

1-3. Schedule

Schedule function can be used to change the operation status of the air conditioning units automatically at a given time. Weekly (5 types), annual (5 types), and current day scheduling are available. Up to 24 events can be scheduled per day.

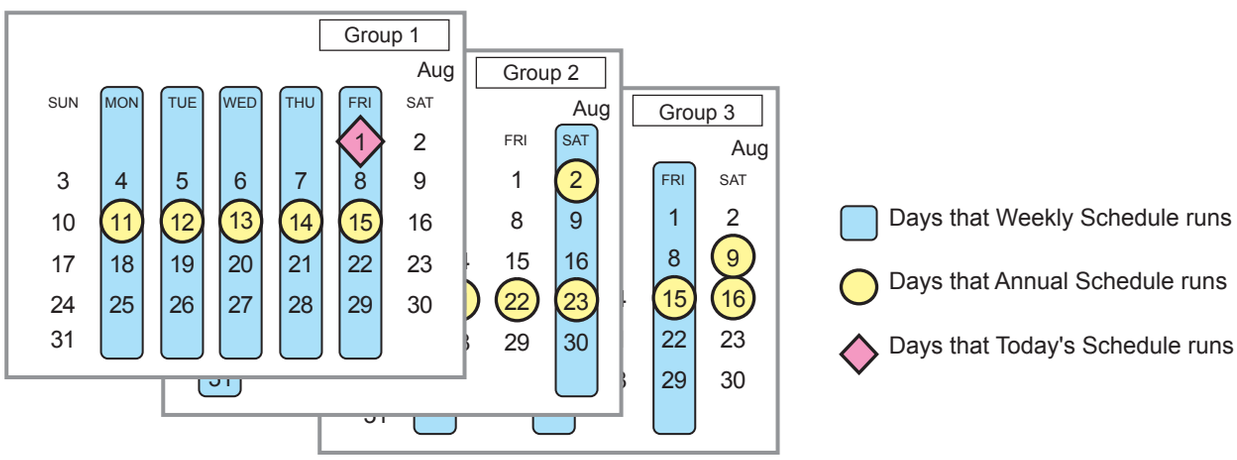
Note: When the schedules overlap, schedule with the highest priority will run as shown on the next page. (Today's schedule>Annual schedule>Weekly schedule 1 to 5)

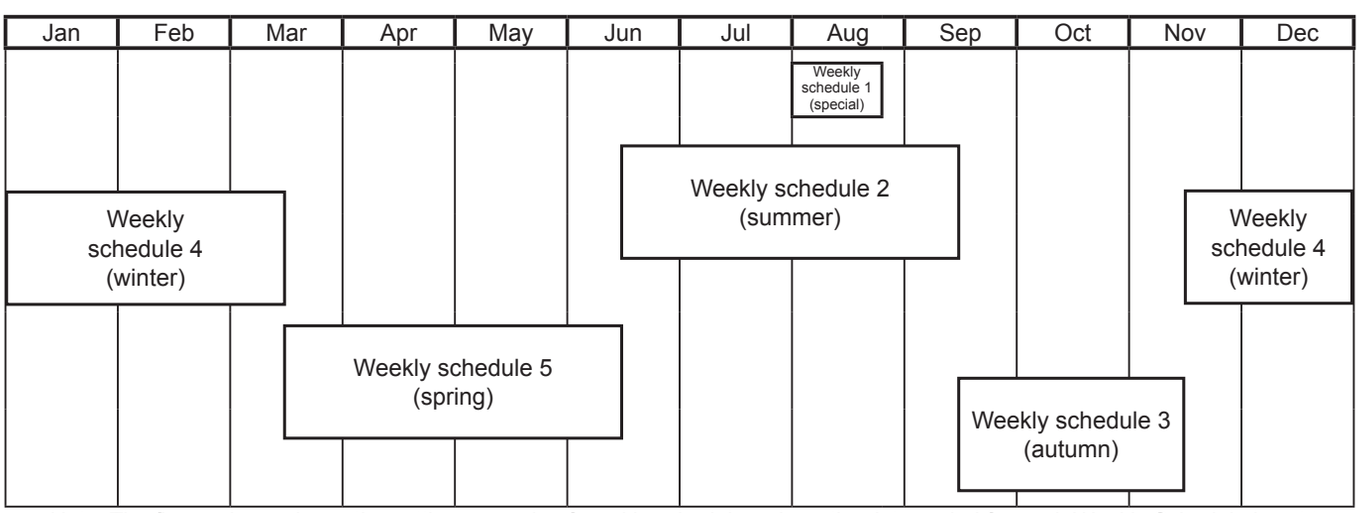
Note: Schedules can be set for each unit group.

Note: Set the [Schedule] setting on the operation settings screen for each unit group to [Available] to enable the scheduled events.

Note: Schedule settings are based upon the set PC time, however, execution of scheduled tasks uses the time set on the centralized controller.
Ensure that the times set on the PC and on the centralized controller match before configuring settings. Refer to 2-5-3 [1] "Date and Time Settings" in Chapter 2 for details on ensuring these match.

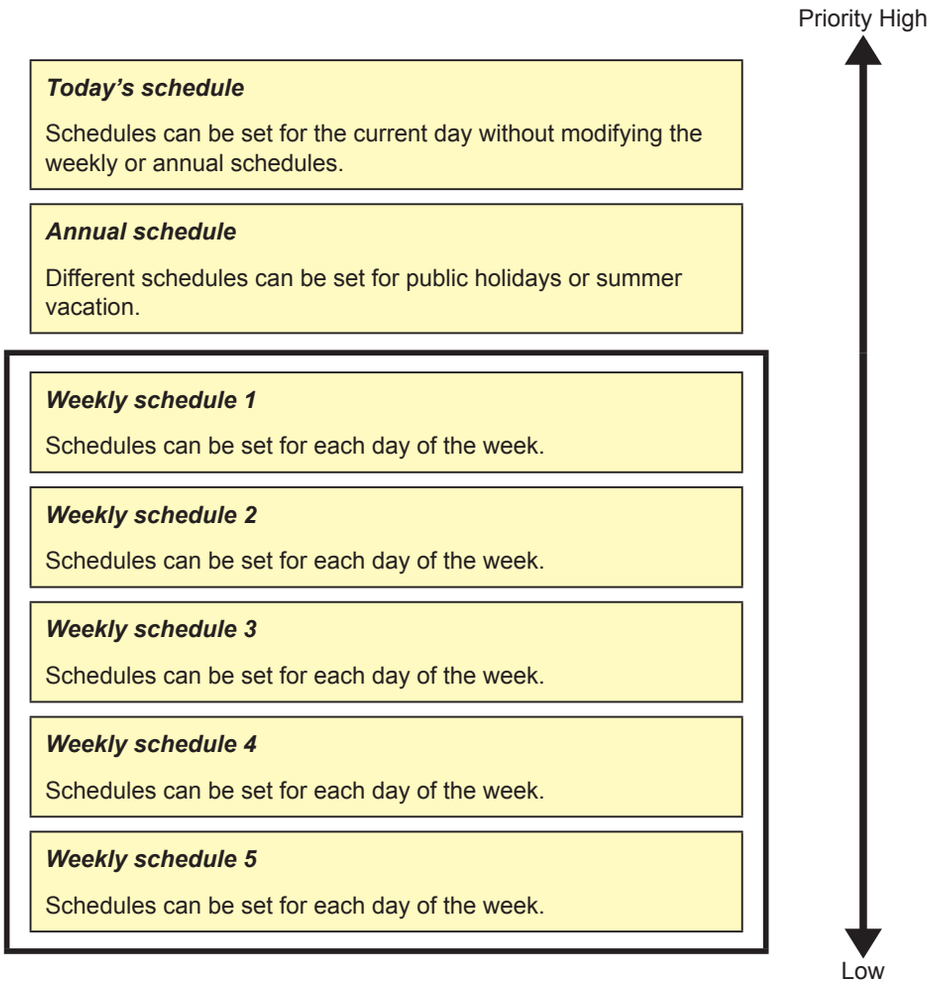
1-3-1. Schedule setting example





Note: The figure above shows the setting example of weekly schedules where the date period for each Weekly Schedule is set to the followings.
Weekly Schedule 1: Aug 1 - Aug 20
Weekly Schedule 2: Jun 16 - Sep 15
Weekly Schedule 3: Sep 16 - Nov 15
Weekly Schedule 4: Nov 16 - Mar 15
Weekly Schedule 5: Mar 16 - Jun 15

Note: When any of the Weekly Schedules 1, 2, 3, 4, and 5 overlap, the schedule with the lower number takes priority. For example, Weekly Schedule 1 takes precedence over Weekly Schedule 2.


Priority High
Today's schedule
Schedules can be set for the current day without modifying the weekly or annual schedules.
Annual schedule
Different schedules can be set for public holidays or summer vacation.
Weekly schedule 1
Schedules can be set for each day of the week.
Weekly schedule 2
Schedules can be set for each day of the week.
Weekly schedule 3
Schedules can be set for each day of the week.
Weekly schedule 4
Schedules can be set for each day of the week.
Weekly schedule 5
Schedules can be set for each day of the week.
Low

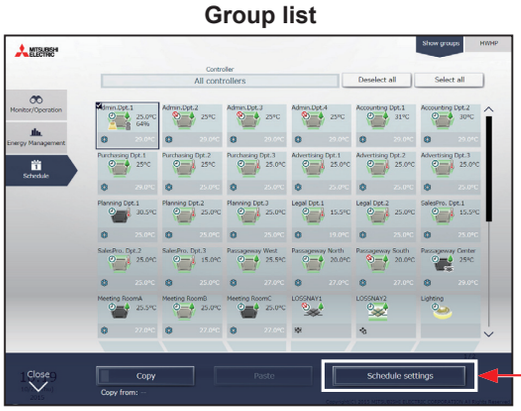
1-3-2. Weekly Schedule

Five types of weekly schedules (Weekly 1 to 5) can be set. Operations can be scheduled for each day of the week for each weekly schedule.

[1] Selecting a target to which the schedule will be applied

In the group list, select a group icon(s) to which the schedule will be applied, and click [Schedule settings]. A screen to set a schedule for the selected group(s) will appear.
Refer to section 1-1-4 “Selecting the icons of the groups to be operated” for how to select group icons.

Group list



Schedule settings

(1) Select [HWHP] to set the schedule for HWHP (CAHV, CRHV) units, or select [Show groups] to set the schedule for other equipment.

(2) Select a group icon(s) to which the schedule will be applied, and click [Schedule settings] in the taskbar.



Schedule settings

(3) If different equipment types exist together, a screen to select an equipment type will appear.
Select one of the equipment types to set the schedule.

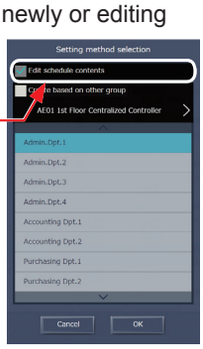


(4) Select a setting method.

(A) To create a new schedule or to edit an existing schedule, click [Edit schedule contents] and click [OK].

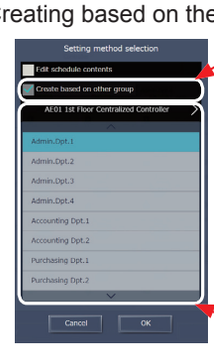
(B) To create a schedule based on the existing setting of other group, select [Create based on other group], select the group whose schedule is to be based on, and click [OK]. The contents of the schedule that have been set for the selected group will appear on the screen that will appear next.

(A) Creating newly or editing



Edit schedule contents

(B) Creating based on the setting of other group



Create based on other group

Select the group whose schedule is to be based on.

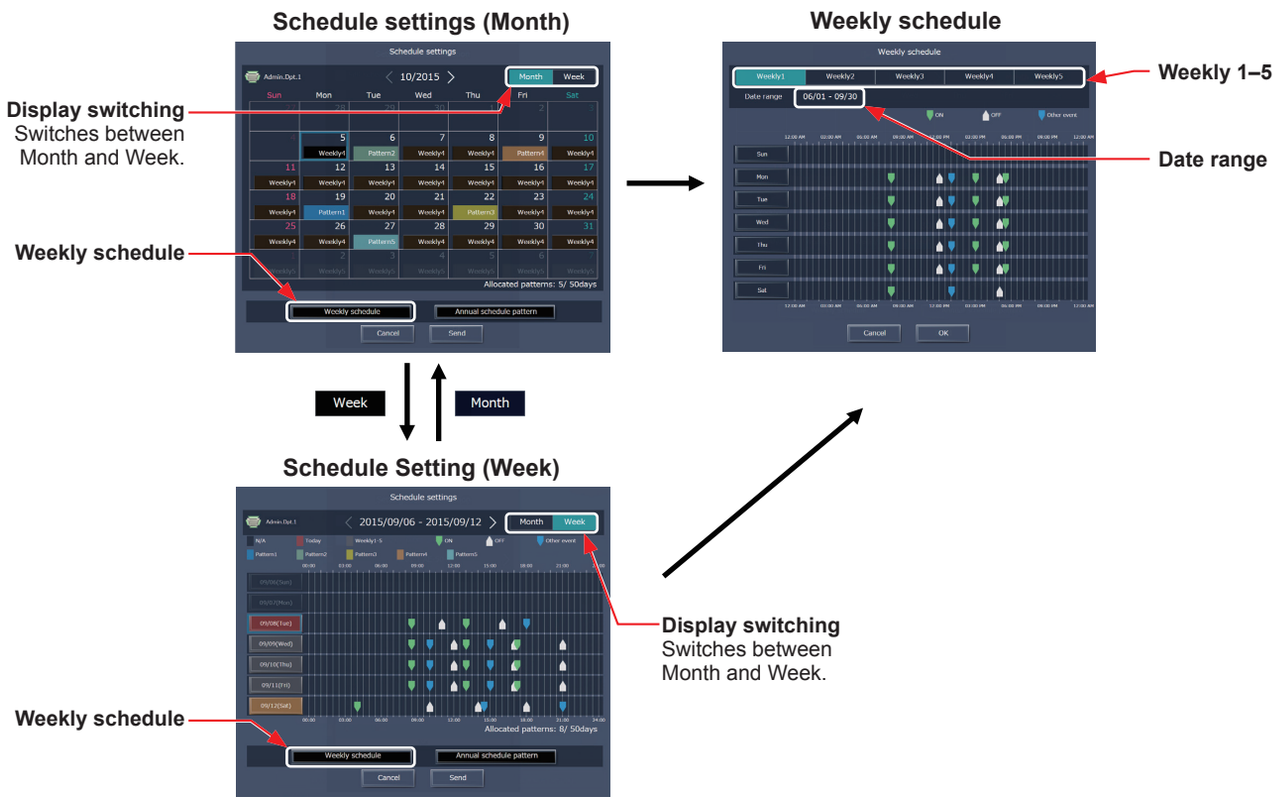
Note: If the group whose schedule is to be based on has no schedule settings, no contents of the schedule will appear on the screen that will appear next.

[2] Checking the date range for each schedule

Five types of weekly schedule date range settings (Weekly 1 to 5) that have been set on the Integrated Centralized Control Web can be checked.

(1) In the Schedule settings screen (Month or Week display), click [Weekly schedule].

(2) Clicking [Weekly 1–5] will display the date ranges in which each weekly schedule will be effective.



Note: Only building managers can configure the weekly schedule date range setting. Tenant managers cannot configure the setting.

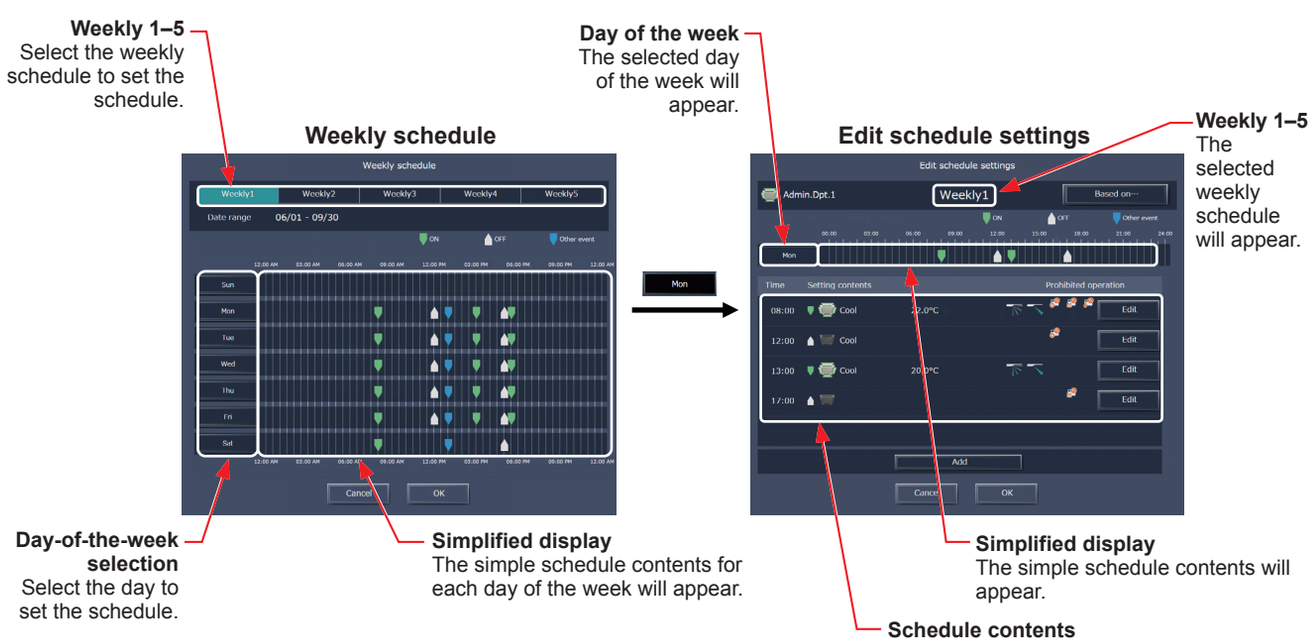
Note: The date range settings are set for each centralized controller (AE-200/AE-50/EW-50).

[3] Selecting a day of the week

Schedules can be set for each day of the week for each weekly schedule (Weekly 1 to 5).

(1) In the Schedule settings screen, select one of the weekly schedule (Weekly 1 to 5).

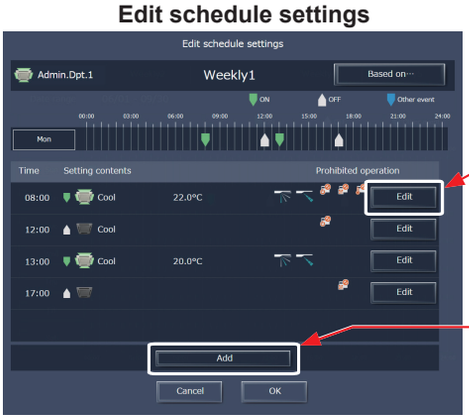
(2) Click the day to set the schedule.
A screen to edit the schedules of the selected weekly schedule and the selected day of the week will appear.



[4] Creating or changing the schedule contents

(1) In the Edit schedule settings screen, click [Add] to create a new schedule, or click [Edit] to change an existing schedule. A schedule contents settings screen will appear.

Edit schedule settings

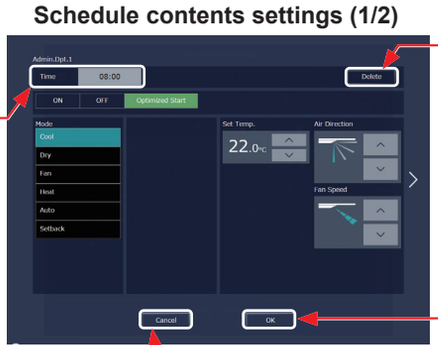


Edit
Click to change an existing schedule contents.

Add
Click to create a new schedule.

(2) In the schedule contents settings screen, set the start time to apply to the schedule, set the operations to be scheduled, and then click [OK].
If [Optimized Start] is selected, the operation mode and the set temperature need to be set as well.

Schedule contents settings (1/2)



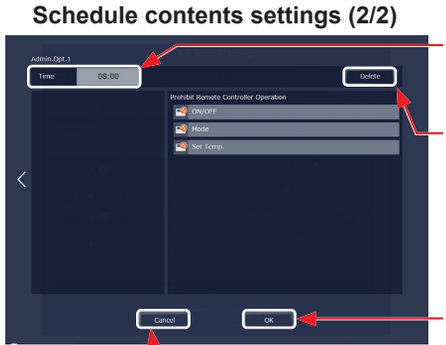
Scheduled start time

Delete
Click to delete the settings.

OK
Click to confirm the settings.

Cancel
Click to undo the changes made and close the settings screen.

Schedule contents settings (2/2)



Scheduled start time

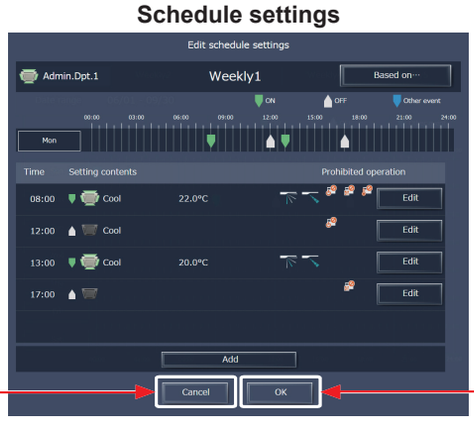
Delete
Click to delete the settings.

OK
Click to confirm the settings.

Cancel
Click to cancel the settings and close the settings screen.

(3) After all schedule settings are completed, click [OK] on the Edit schedule settings screen.

Schedule settings



Cancel
Click to undo the changes made and close the Edit schedule settings screen.

OK
Click to confirm the settings.

Note: When setting a schedule for a block or all groups collectively, all operation modes are available for selection, but the available operation modes depend on the unit model. The units will not operate in the selected mode not supported by the units.

Note: No need to set schedules for all operations. Set one or more necessary operations.

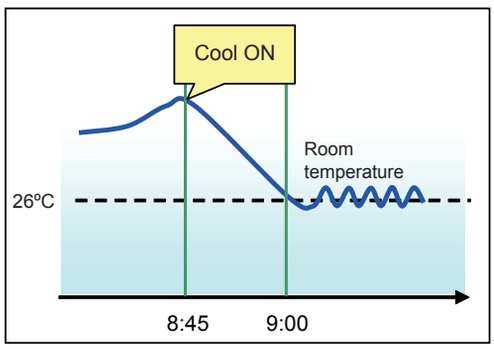
Note: The operation items that will appear on the screen vary, depending on the equipment type.

Note: For details about settings of each operation, refer to section 1-1-5 “Advanced settings”.

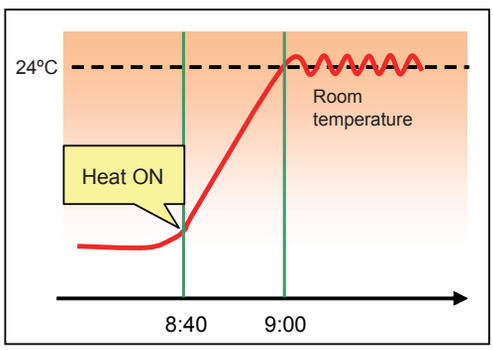
Note: About Optimized Start function

The Optimized Start function will start the units 5 to 60 minutes prior to the scheduled start time to reach the set temperature at the scheduled start time. To use this function, select [Optimized Start] on the schedule contents settings screen.

- When the units start the first time after a power reset, the units will start operation 30 minutes before the scheduled start time.
- If the room temperature is measured by the return air temperature sensor on the air conditioning unit, the measured value may not be an accurate representation of the temperature in the room. When this is the case, use an external temperature sensor (PAC-SE40TSA) or remote controller sensor to measure the room temperature.
- [Optimized Start] can be selected only for air conditioning units and Air To Water units.



Operation mode: Cool
Start time: 9:00
Set temperature: 26ºC

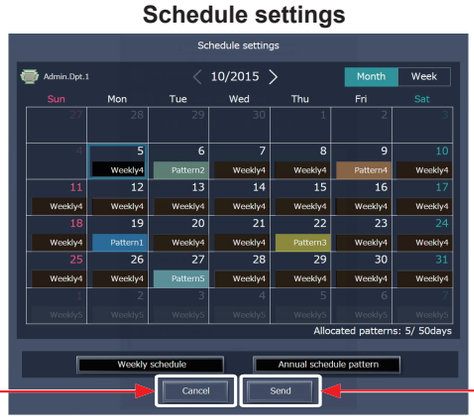


Operation mode: Heat
Start time: 9:00
Set temperature: 24ºC

[5] Saving the schedules

(1) After the schedule settings are completed, click [Send] on the Schedule settings screen to send and save the settings to the centralized controllers.
To undo the changes made, click [Cancel].

Schedule settings



Cancel
Click to undo the changes made and close the Schedule settings screen.

Send
Click to save the settings.

Note: Clicking [Send] will send the schedule settings to the centralized controllers (AE-200/AE-50/EW-50). It may take a few minutes to complete the transmission, depending on the volume of the schedule contents.

1-3-3. Annual Schedule

Schedules can be set for public holidays or summer vacation.
Up to five operation patterns (Pattern 1 to 5) can be set for the 24 months including the current month, and total of 50 days can be allocated to the patterns.

[1] Selecting a target to which the schedule will be applied

(1) In the group list, select a group icon(s) to which the schedule will be applied.
Refer to [1] in 1-3-2 “Weekly Schedule” for details.

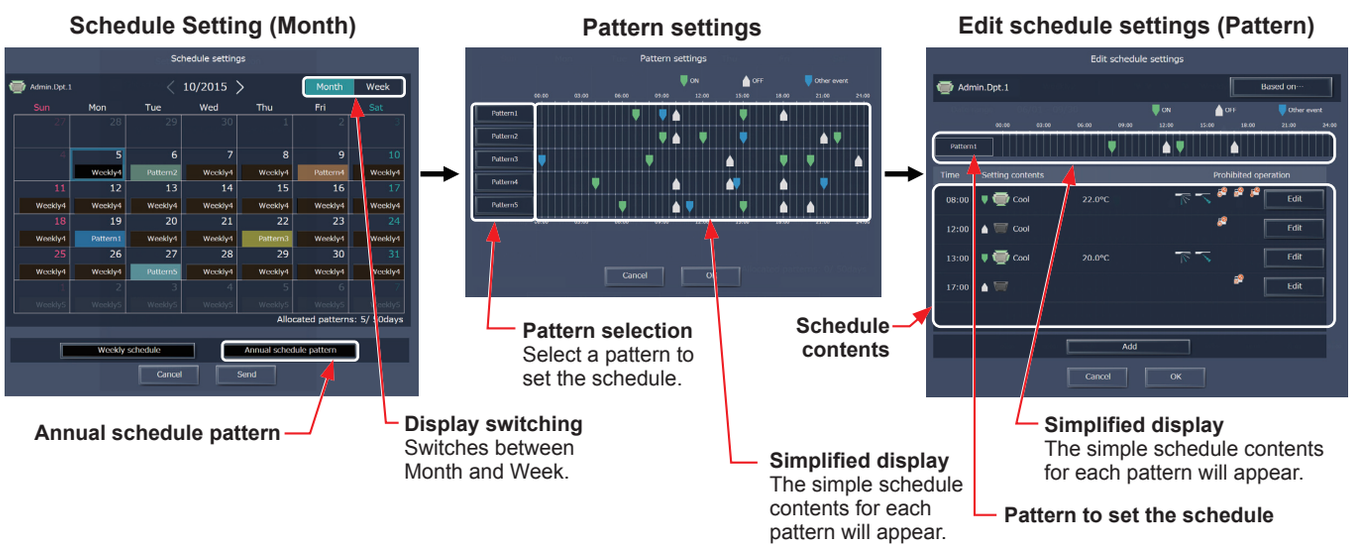
[2] Selecting a schedule pattern

Up to five operation patterns can be set.

(1) In the Schedule settings screen (Month or Week display), click [Annual schedule pattern].

(2) In the pattern settings screen, select a schedule pattern to set the schedule.

(3) An Edit schedule settings screen will appear.



[3] Creating or changing the schedule contents

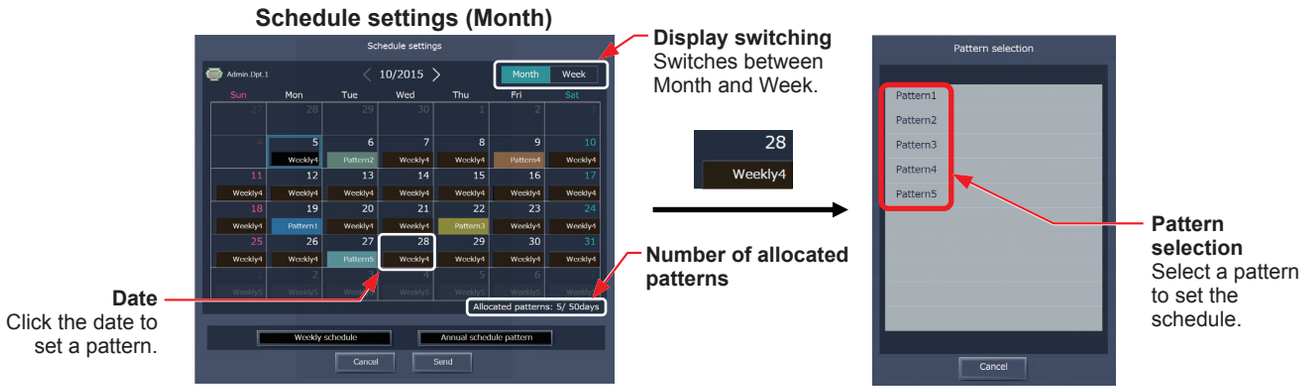
(1) In the Edit schedule settings screen, set the start time to apply to the schedule, set the operations to be scheduled, and then click [OK].
Refer to [4] in 1-3-2 “Weekly Schedule” for details.

[4] Allocating schedule patterns to special dates

Each schedule pattern can be allocated to the specified dates such as public holidays and summer vacation.

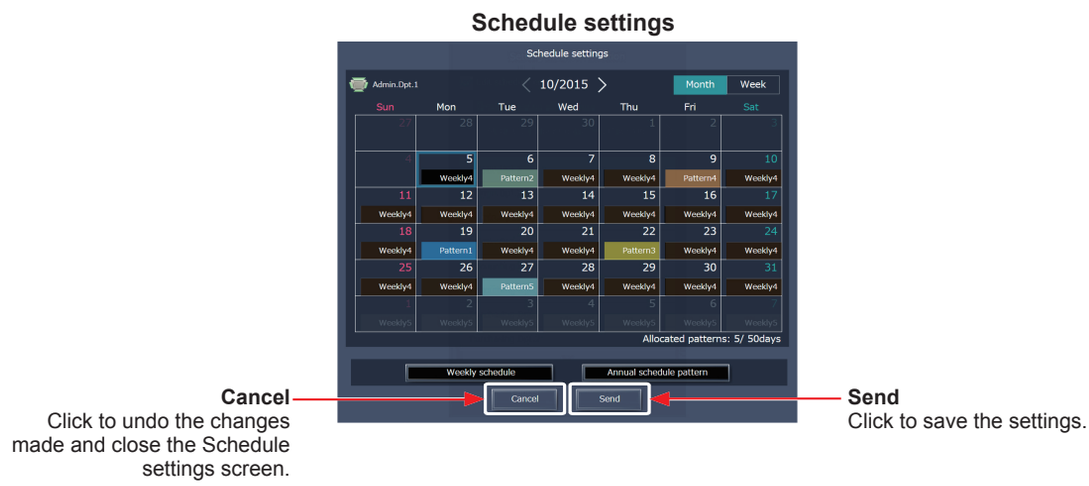
(1) In the Schedule settings screen (Month or Week display), click the date to set a pattern.

(2) Select the pattern to be allocated to the selected date.



[5] Saving the schedules

(1) After the schedule settings are completed, click [Send] on the Schedule settings screen to send and save the settings to the centralized controllers.
To undo the changes made, click [Cancel].



Note: Clicking [Send] will send the schedule settings to the centralized controllers (AE-200/AE-50/EW-50). It may take a few minutes to complete the transmission, depending on the volume of the schedule contents.

1-3-4. Today's Schedule

Schedules can be set for the current day without modifying the weekly or annual schedules.

Note: It is not possible to delete the today's schedule and change it to the weekly or annual schedule.

[1] Selecting a target to which the schedule will be applied

(1) In the group list, select a group icon(s) to which the schedule will be applied.
Refer to [1] in 1-3-2 "Weekly Schedule" for details.

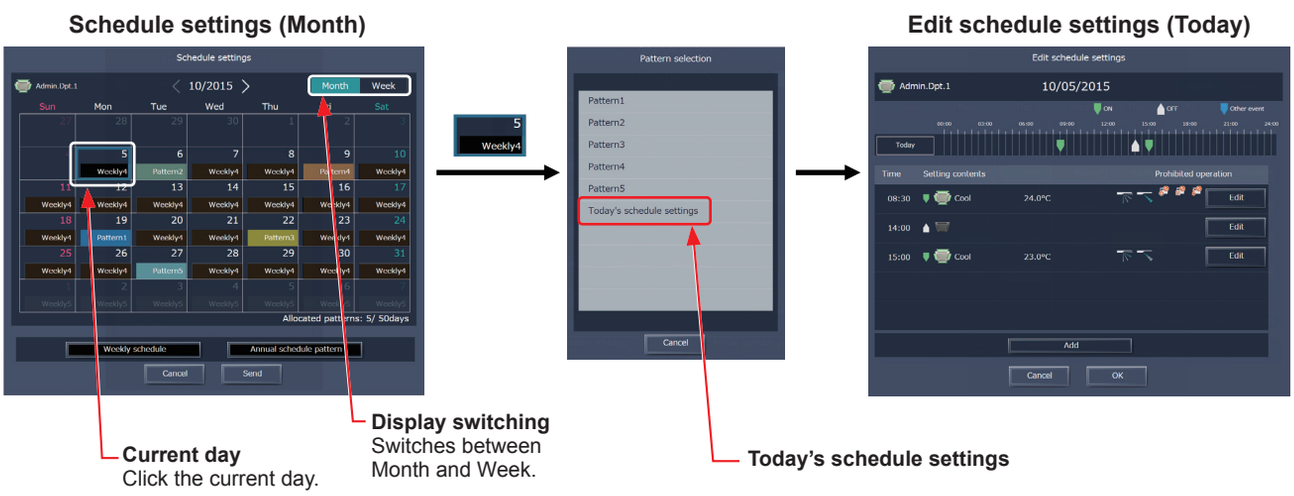
[2] Setting or changing the contents of the schedule

(1) In the Schedule settings screen (Month or Week display), click the date of the current day.
The current day is displayed with a blue frame.

(2) Click [Today's schedule settings].

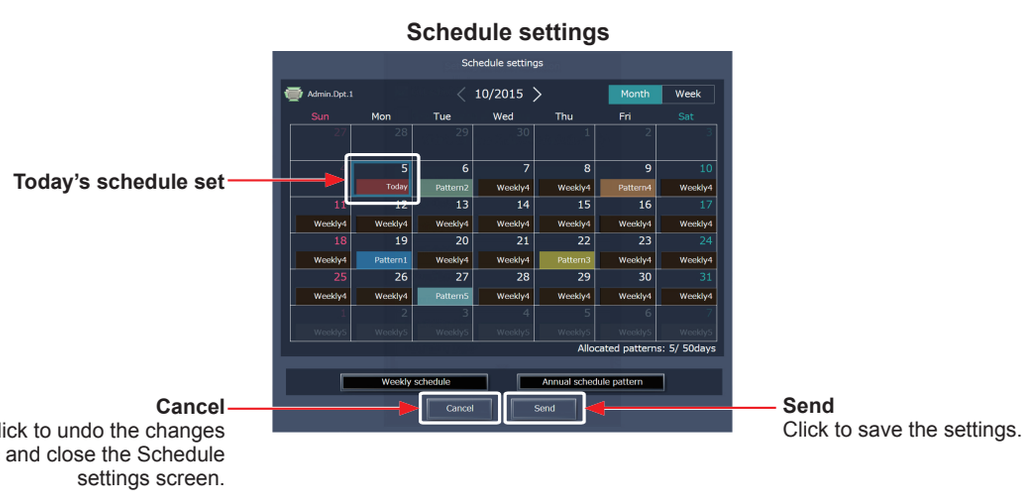
(3) In the Edit schedule settings screen, set the start time to apply to the schedule, set the operations to be scheduled, and then click [OK].
Refer to [4] in 1-3-2 "Weekly Schedule" for details.

Note: In the Schedule settings screen, "Today" (5 Today) is displayed on the date of the current day to which Today's schedule is set.



[3] Saving the schedules

(1) After the schedule settings are completed, click [Send] on the Schedule settings screen to send and save the settings to the centralized controllers.
To undo the changes made, click [Cancel].



Note: Clicking [Send] will send the schedule settings to the centralized controllers (AE-200/AE-50/EW-50). It may take a few minutes to complete the transmission, depending on the volume of the schedule contents.

1-3-5. Copying existing settings, or creating a schedule based on other settings

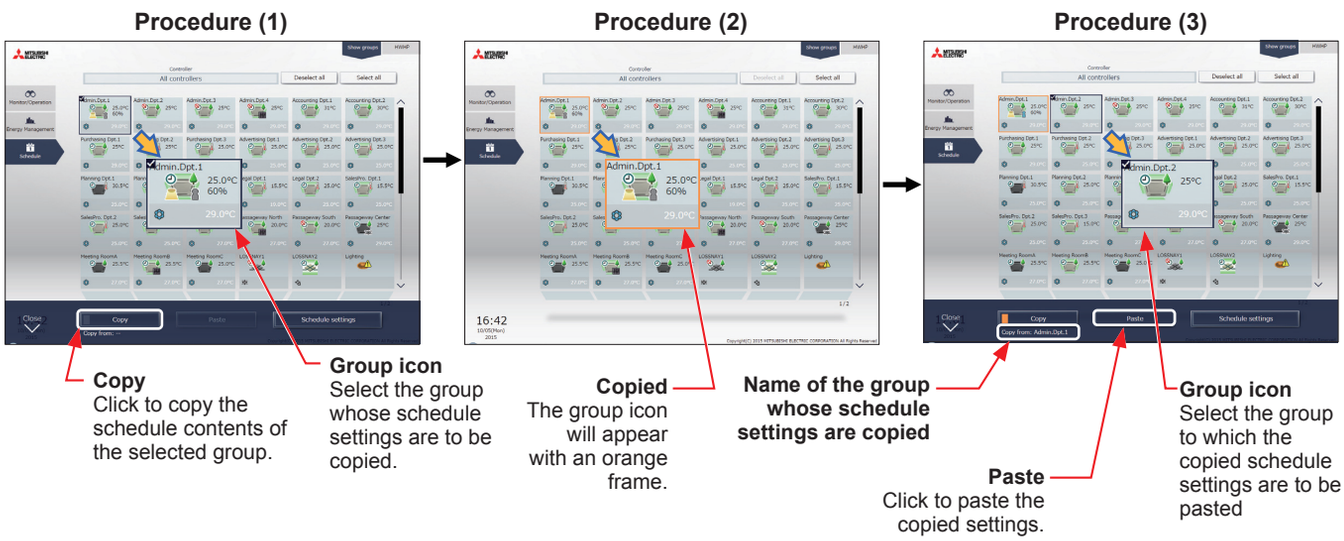
[1] Copying existing settings of other group

The schedule settings can be copied among groups.

(1) In the group list, select the group whose schedule settings are to be copied, and then click [Copy] in the taskbar.

(2) The schedule contents of the selected group will be copied, and the group icon will appear with an orange frame.

(3) Select the group to which the copied schedule settings are to be pasted, and click [Paste].
The name of the group whose schedule settings have been copied appears under the [Copy] button.



Note: Schedules of a group cannot be copied to a different type of group.

[2] Creating a schedule based on existing settings of other pattern/day of the week

When setting annual schedule patterns or setting schedules for each day of the week for weekly schedule, the schedule settings can be created based on existing settings of other pattern or other day of the week.

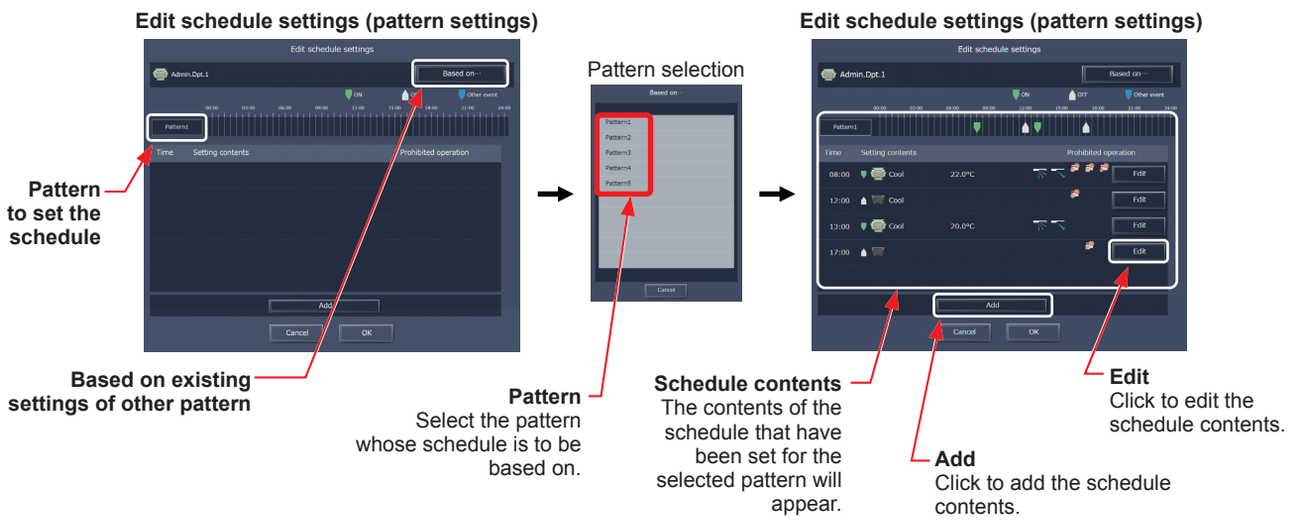
(1) In the Edit schedule settings screen, click [Based on...].

(2) In the [Based on...] screen, select the pattern or the day of the week whose schedule is to be based on.

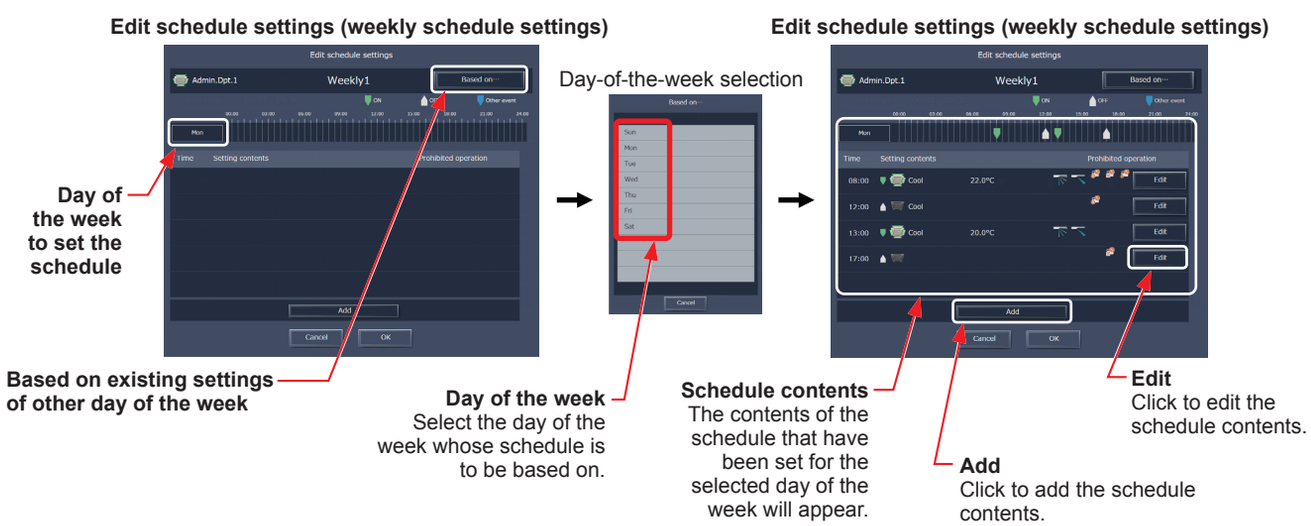
(3) The contents of the schedule that have been set for the selected pattern or the day of the week will appear in the Edit schedule settings screen.

(4) Add or change the schedule contents, if necessary.

• Annual schedule



• Weekly schedule



Chapter 4. For general users

If logged in with general user privileges, Integrated Centralized Control Web monitoring and operating functions can be used.
Log in to display the Monitor/Operation screen.
Only general users can use a smartphone for monitoring and operation.

Note: For how to log in to the Integrated Centralized Control Web using a PC, tablet, or smartphone, refer to 3 “Logging in to the Integrated Centralized Control Web” in Chapter 1.

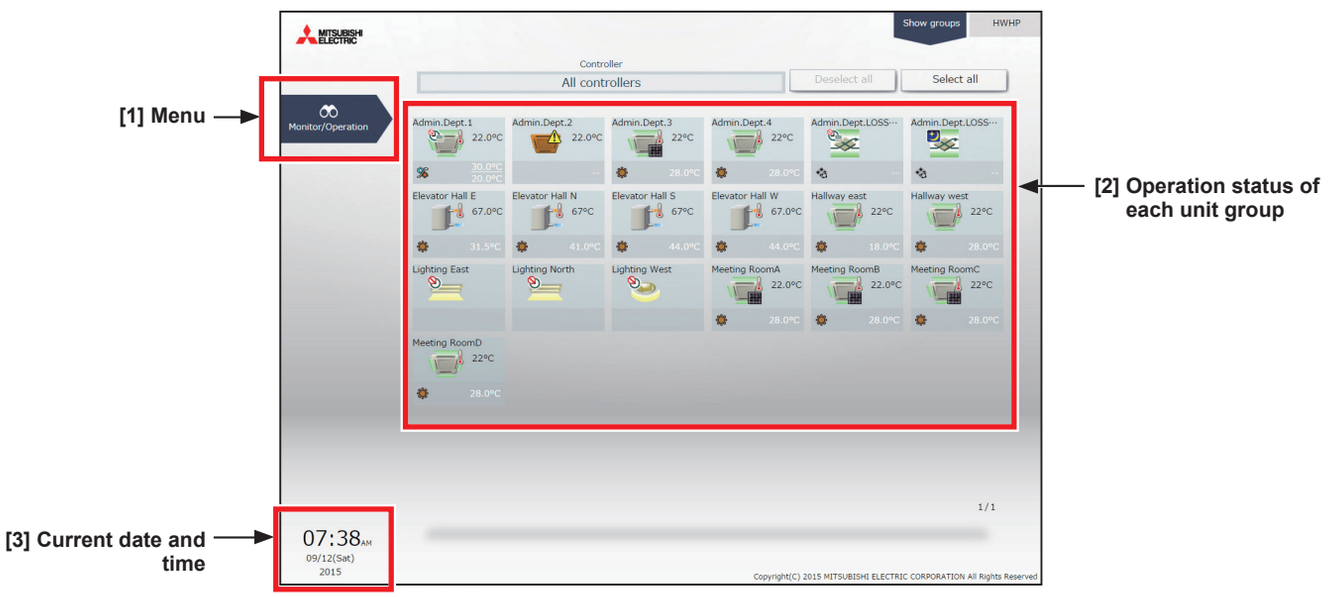
Note: Login processing may require approximately 10 seconds. Also, switching between pages sometimes takes approximately 3 seconds. More time may be required, depending on your communications environment, terminal functionality, and the number of devices in the managed air conditioning unit group.

Note: Consult with the building manager for the ID and password required for login.

Note: “Tenant/Personal Web” license is required to use general users.

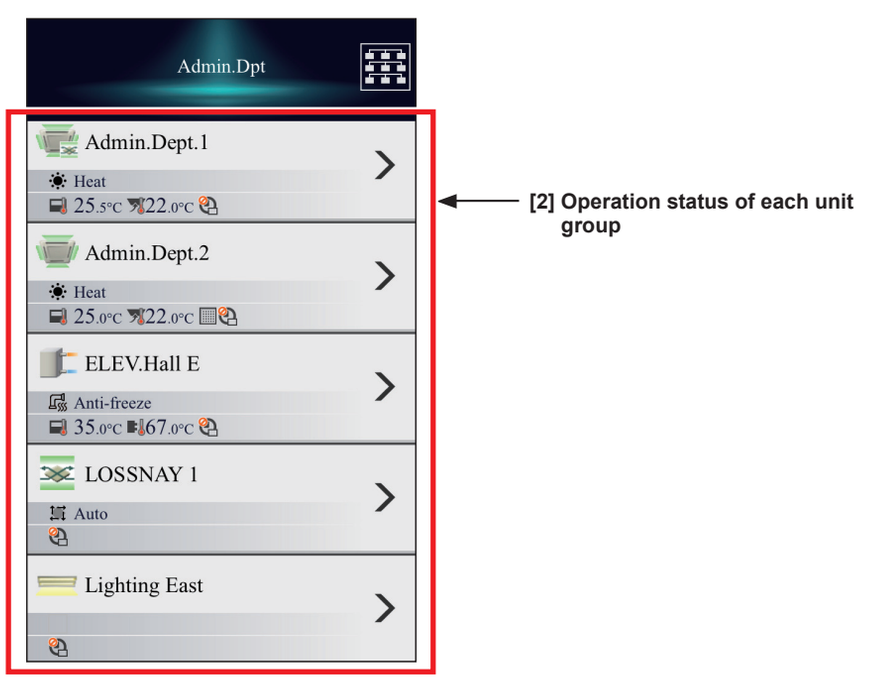
■ PC/Tablet Monitor/Operation screen

Login URL: http://[IP address of the login destination centralized controller AE-200/EW-50]/control/index.html



■ Smartphone Monitor/Operation screen

Login URL: http://[IP address of the login destination centralized controller AE-200/EW-50]/mobile/index.html



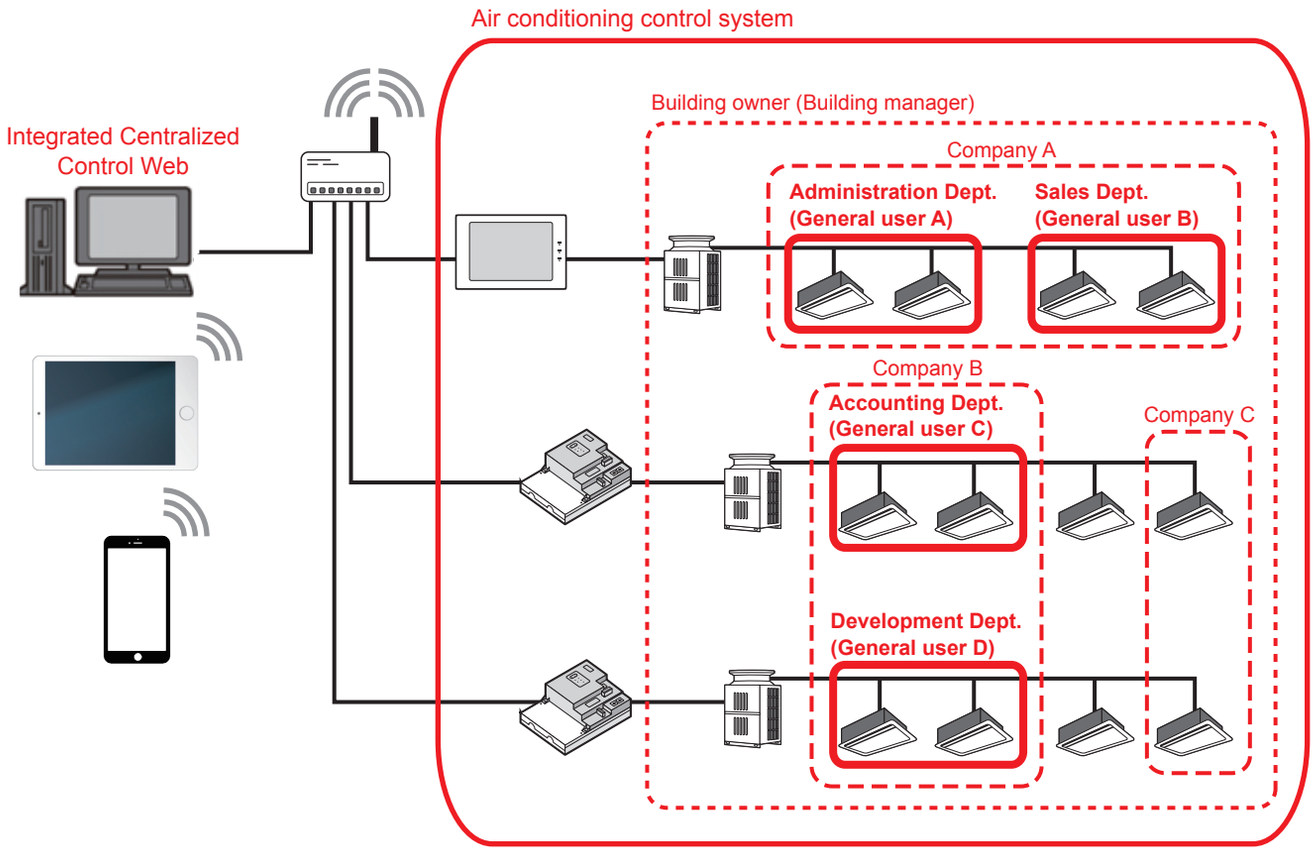
[1] Menu

Monitor/Operation	Monitor/Operation	Displays a screen to monitor and operate the operation conditions of each unit group.

[2] Operation status of each unit group

Display the list of unit groups set for general user management.

Example) Range of management for when general users set for Company A's Administration Dept. and Sales Dept., and Company B's Accounting Dept. and Development Dept.



Note: Up to 2,000 general users can be registered on the Integrated Centralized Control Web.

Note: General user settings can be configured on the Integrated Centralized Control Web. Refer to section 2-5-2 "User registration" in Chapter 2 for settings methods.

Note: Only the unit groups set for general user management can be monitored and operated.

[3] Current date and time

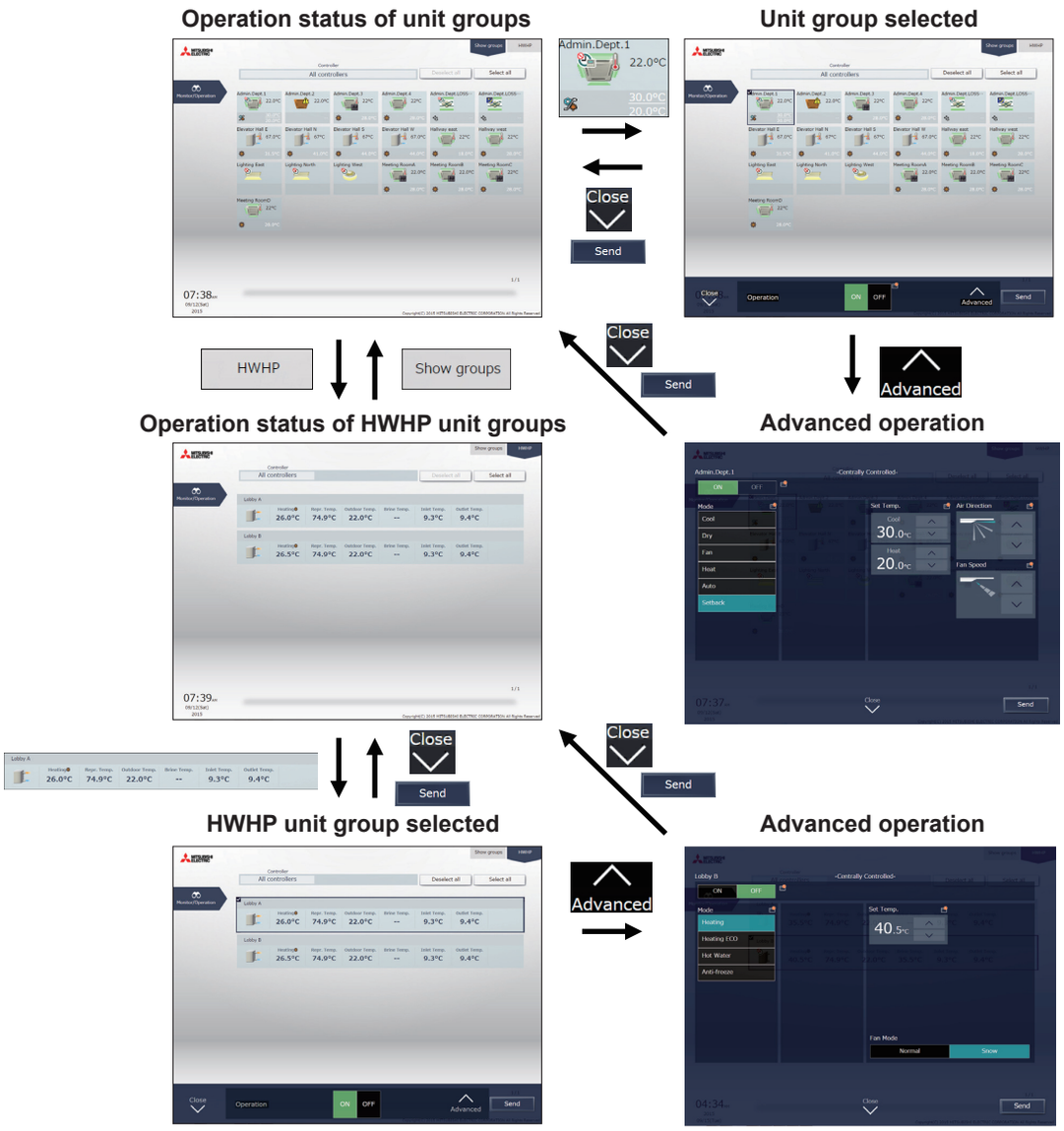
This displays the time of the PC on which Integrated Centralized Control Web is used.

1. Usage (PC, tablet)

This section explains how to monitor and operate the air conditioning units, LOSSNAY units, Air To Water (PWFY) units, general equipment, and HWHP (CAHV, CRHV) units that are connected to the AE-200/AE-50/EW-50.

1-1. Monitor/Operation

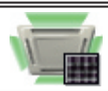
1-1-1. Screen sequence



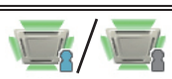
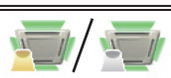
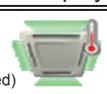
1-1-2. Group icons

Each group icon indicates the operation condition of the group.

[1] Air conditioning unit group

ON	OFF	Error	Filter sign ON *1 *15	Interlocked LOSSNAY ON *2
				

Interlocked LOSSNAY OFF *3	Schedule set	Schedule disabled	Energy-saving ON *4 *10	Setback ON *8
				

Unit unknown *9	Occupied/Vacant *5 *6 *15	Bright/Dark *7 *8 *15	Room temperature display *11 *15	Room humidity display *12 *13 *15
	 (blue) (gray)	 (yellow) (gray)	 25.0°C (red)	 (blue) 69%

Hold ON *14


*1 Whether or not to display the filter sign ([ON], [OFF]) can be set in the initial settings.

*2 If the LOSSNAY unit is interlocked with the operation of Mr. Slim units, “Interlocked LOSSNAY ON” icon will appear, even when the LOSSNAY unit is operated individually.
(Applicable M-NET adapter model: PAC-SF48/50/60/70/80/81MA-E)

*3 If a LOSSNAY unit is interlocked with the operation of indoor units in multiple groups, the LOSSNAY unit may be in operation, even when the “Interlocked LOSSNAY OFF” icon is displayed.

*4 The “Energy-saving ON” icon will appear while the Peak Cut control is performed. Even when the operation of the group is stopped due to the Peak Cut control, the icon will appear.

*5 The Occupancy/Vacancy status icon will appear only when the remote controller in the group has an occupancy sensor. (ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA)) The Occupancy/Vacancy status icon will appear only when [ ] (blue), [ ] (gray), or [ ] (blue/gray) is selected in the initial settings.

*6 The Occupancy/Vacancy status icon takes priority over the “Interlocked LOSSNAY ON” and “Interlocked LOSSNAY OFF” icons.

*7 The Brightness/Darkness status icon will not appear only when the remote controller in the group has a brightness sensor. (ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA)) The Brightness/Darkness status icon will appear only when [ ] (yellow), [ ] (gray), or [ ] (yellow/gray) is selected in the initial settings.

*8 The “Setback ON” icon takes priority over the Brightness/Darkness status icon.

*9 The “Unit unknown” icon will stay when the AE-200/AE-50/EW-50 cannot be recognized after startup. Check for proper connection of the air conditioning units and proper group settings.

*10 The “Energy-saving ON” icon takes priority over the “Room temperature display” and “Room humidity display” icons.

*11 Display option of the room temperature ([Always show], [Show during operation], [Hide]) can be set in the initial settings.

*12 The “Room humidity display” icon will appear only when the remote controller in the group has a humidity sensor. (ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA))

*13 Whether or not to display the humidity ([ON], [OFF]) can be set in the initial settings.

*14 The “Hold ON” icon is displayed for the AE-200A/AE-50A/EW-50A, but not for the AE-200E/AE-50E/EW-50E.

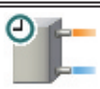
*15 Initial settings can be configured in the basic settings screen on the Initial Setting Tool or LCD. Refer to the Instruction Book (Initial Settings) for details.

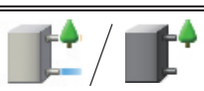
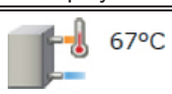
[2] LOSSNAY unit (ventilator) group

ON	OFF	Error	Filter sign ON *1 *6	Schedule set *3
				

Schedule disabled *3	Energy-saving ON *2	Night Purge ON *3	Hold ON *7
		 (blue)	

[3] Air To Water (PWFY) unit group and HWHP (CAHV, CRHV) unit group

ON	OFF	Error	Schedule set	Schedule disabled
				

Energy-saving ON *2	Water temperature display *4	Hold ON *7
	 (red) 67°C	

[4] Other equipment group

ON	OFF	Error	Schedule set *5 *6	Schedule disabled
				

Hold ON *7


*1 Whether or not to display the filter sign ([ON], [OFF]) can be set in the initial settings.

*2 The “Energy-saving ON” icon will appear while the Peak Cut control is performed. Even when the operation of the group is stopped due to the Peak Cut control, the icon will appear. This icon will not appear for the HWHP (CAHV, CRHV) unit groups.

*3 If Schedule is set during Night Purge operation, then the order of priority for display will be “Night Purge ON” → “Schedule set”. Even if Schedule is disabled, the order of priority for display will be “Night Purge ON” → “Schedule disabled”.

*4 The “Water temperature display” icon will not appear for the HWHP (CAHV, CRHV) unit groups.

*5 If any schedule setting is applied to a DIDO controller whose prohibition setting is enabled (“Allow operations” is set to [No operations] on the group settings screen in the initial settings), the “Schedule set” icon will appear, but the scheduled operations will not be performed. Refer to the Instruction Book (Initial Settings) for settings methods

*6 Initial settings can be configured in the basic settings screen on the Initial Setting Tool or LCD. Refer to the Instruction Book (Initial Settings) for details.

*7 The “Hold ON” icon is displayed for the AE-200A/AE-50A/EW-50A, but not for the AE-200E/AE-50E/EW-50E.

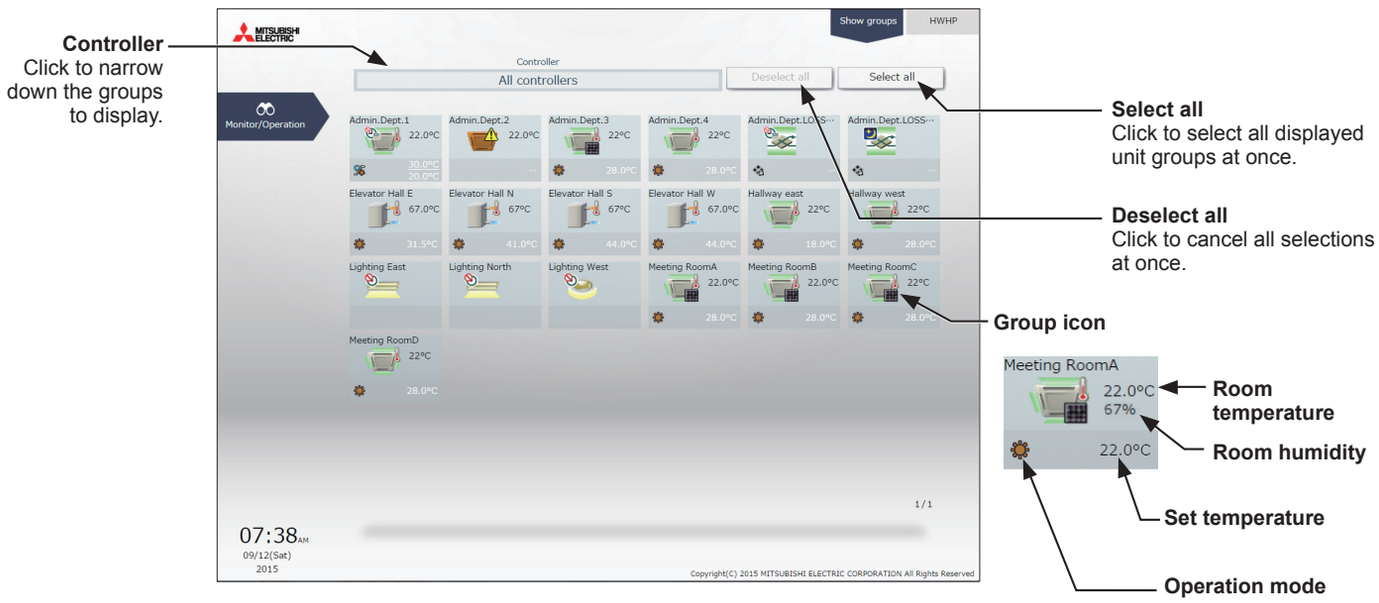
Note: Icons can be changed in the group settings screen in the initial settings. Refer to the Instruction Book (Initial Settings) for settings methods.

1-1-3. Monitoring the operation status

This section explains how to monitor the operation status of units.

[1] Air conditioning unit, LOSSNAY unit, Air To Water (PWFY) unit, and other equipment groups

Click [Monitor/Operation] in the menu, and then click [Show groups] to display the operation status of unit groups.



The operation mode currently in use is displayed in “Operation mode”.

• Air conditioning unit group

Cool	Dry	Fan	Heat	Auto	Auto (Cool)	Auto (Heat)	Setback
							

• LOSSNAY unit (ventilator) group

Bypass	Heat Recovery	Auto
		

• Air To Water (PWFY) unit group

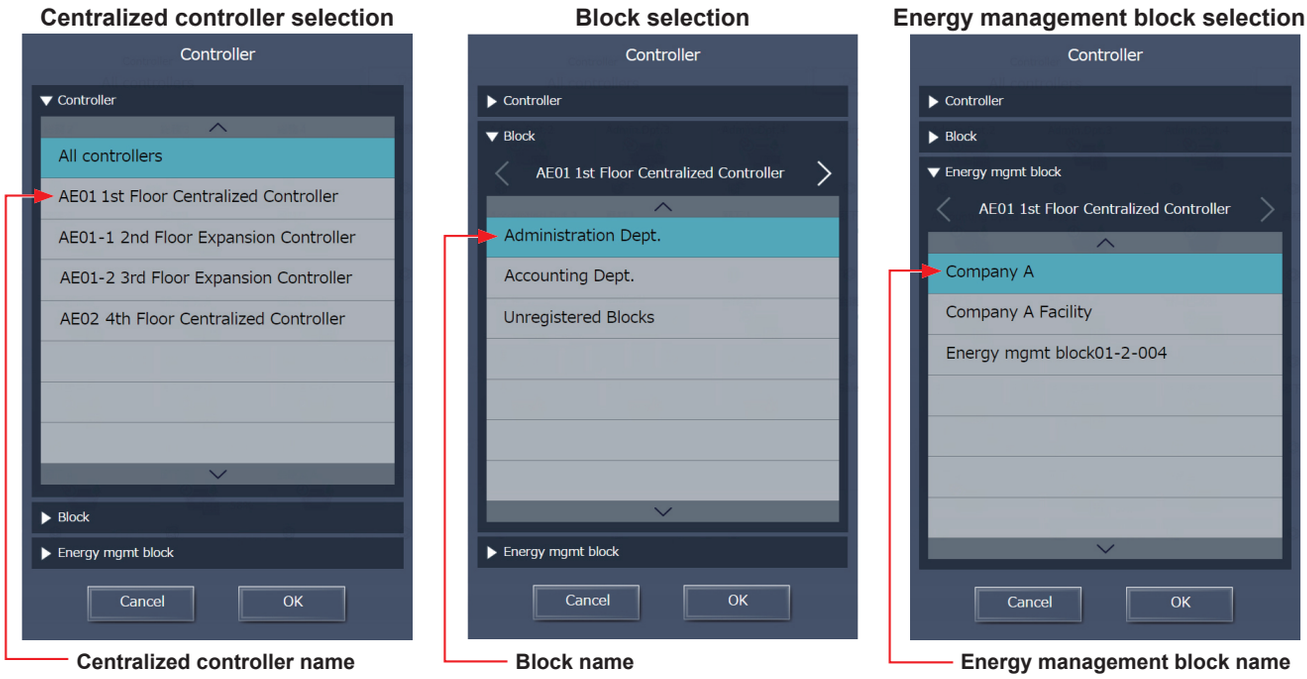
Heating	Heating ECO	Hot Water	Anti-freeze	Cooling
				

Note: In [Controller], it is possible to narrow down the unit groups for group display into “Centralized controller units,” “Block units,” and “Energy management block units.”

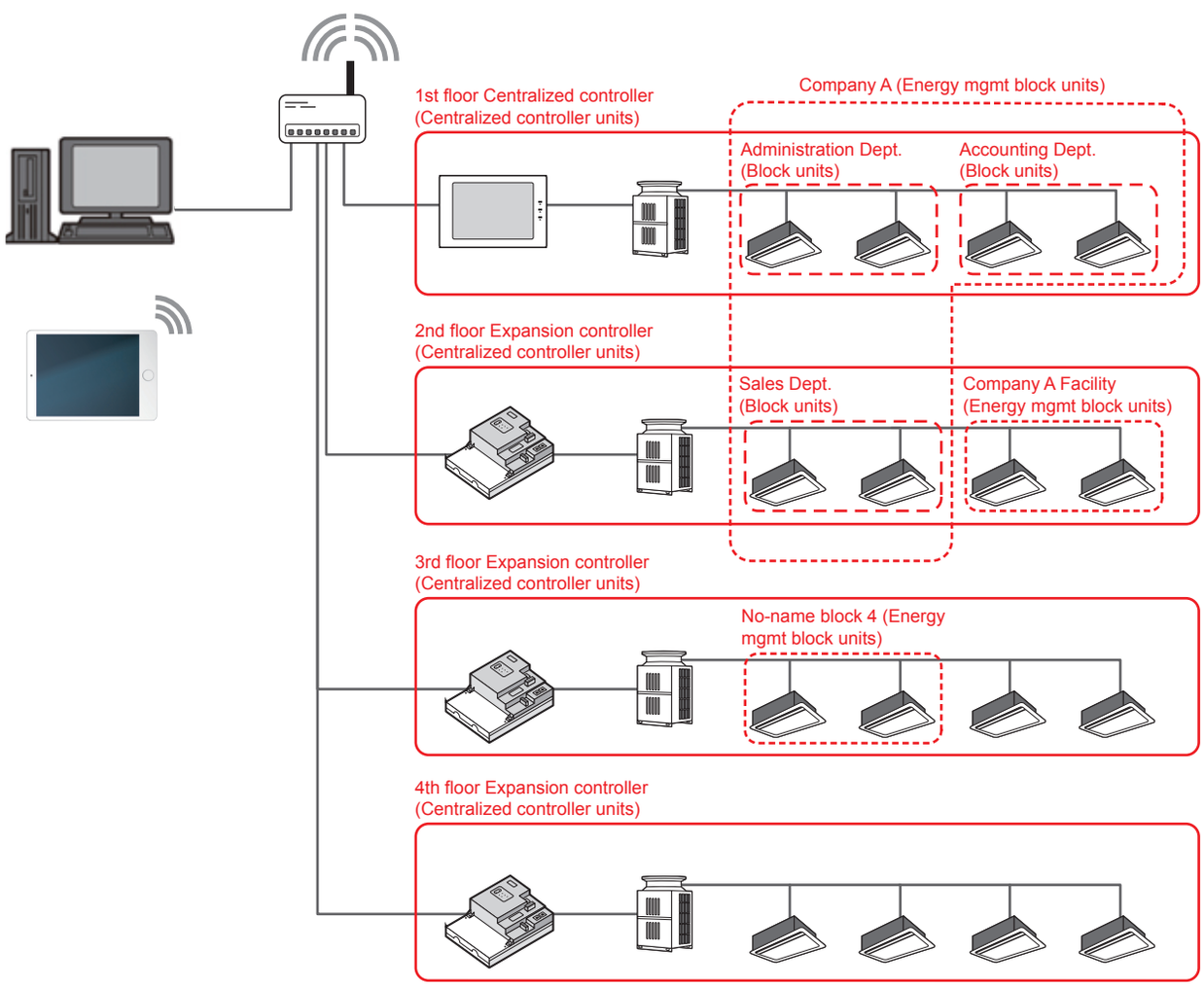
Note: The selection screen displays the centralized controllers to which unit groups set for general user management (in section 2-5-2 “User registration” in Chapter 2) are connected and the blocks and energy management blocks of unit groups set for general user management.

Note: For how to configure centralized controller name setting, block and energy management block settings, and name settings, refer to the Instruction Book (Initial Settings).

Note: The group name can be displayed using up to 10 double-byte, or 10 to 18 single-byte characters. The number of characters that can be displayed differs depending on character type. Name setting is carried out through initial settings. Refer to the Instruction Book (Initial Settings) for settings methods.



* Example of narrowing down the range in [Controller]

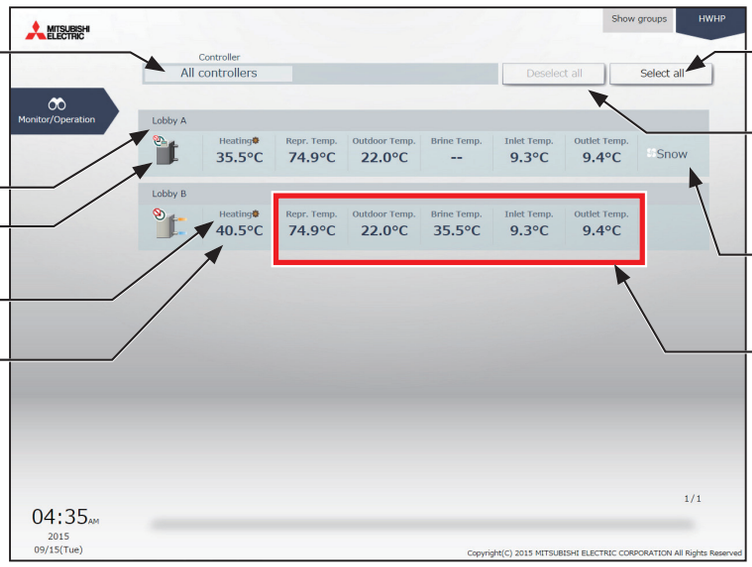


[2] HWHP (CAHV, CRHV) unit group

Click [Monitor/Operation] in the menu, and then click [HWHP] to display the operation status of HWHP (CAHV, CRHV) unit groups.

Note: [HWHP] will not appear if no HWHP (CAHV, CRHV) units have been registered to any group.

Note: Fan mode will appear only for CAHV units. Brine temperature will appear only for CRHV units.



Controller
Click to narrow down the HWHP unit groups to display.

Group name

Group icon

Operation mode

Set temperature

Select all
Click to select all displayed unit groups at once.

Deselect all
Click to cancel all selections at once.

Fan mode

Temperatures
Representative water temperature, outdoor temperature, brine temperature, inlet water temperature, and outlet water temperature are displayed.

The operation mode currently in use is displayed in “Operation mode”.

• HWHP (CAHV, CRHV) unit group

Heating	Heating ECO	Hot Water	Anti-freeze
			

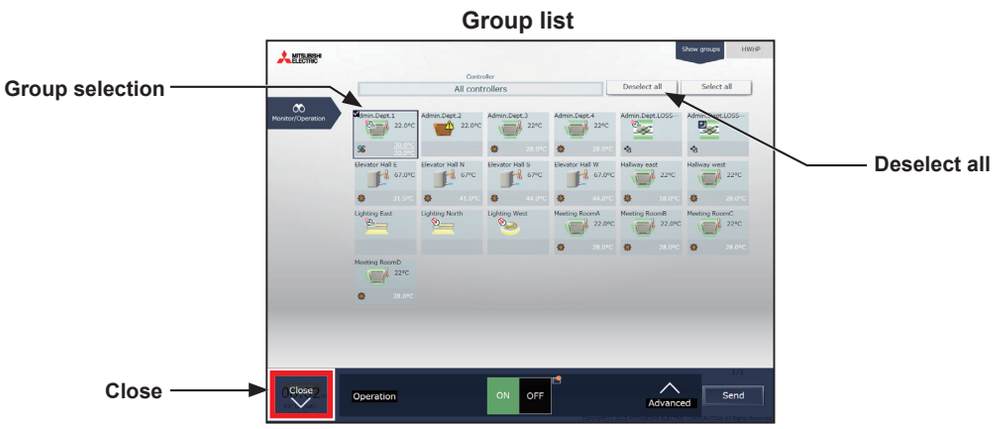
1-1-4. Selecting the icons of the groups to be operated

In the group list, select the icon(s) of the group(s) to be operated as explained below.

[1] Selecting group icons

(1) Selecting unit group(s) that are managed by general users

(1) In the group list, click the icon(s) of the group(s) you want to operate.
The selected group icon(s) will appear with a checkmark and a dark blue frame.
Click again to deselect.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



(2) Selecting all unit groups that are managed by general users

(1) In the group list, click [Select all].
The all icon(s) will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



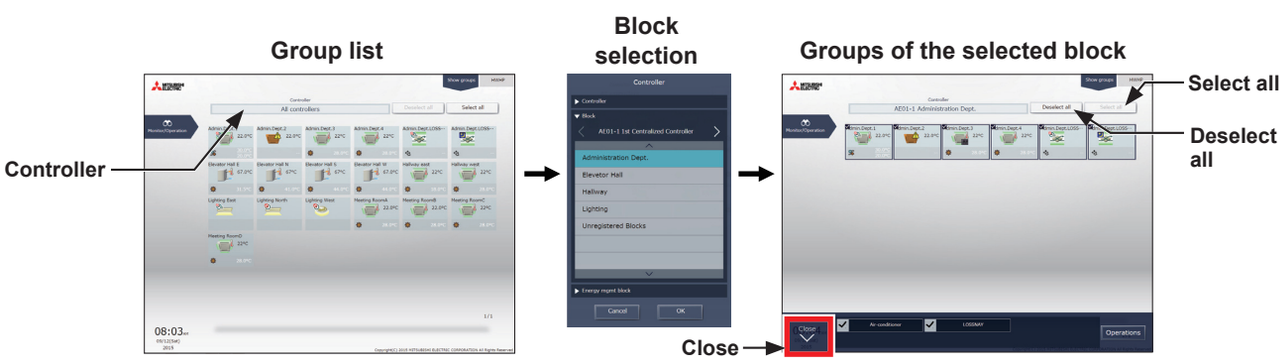
(3) Selecting all groups under the control of a given controller connected to the unit groups that are managed by general users

(1) In the group list, click [Controller]. In the controller selection screen, select a centralized controller.
The unit groups that are under the control of the selected centralized controller will appear.
In the group list (centralized controller units), click [Select all]. All icons will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



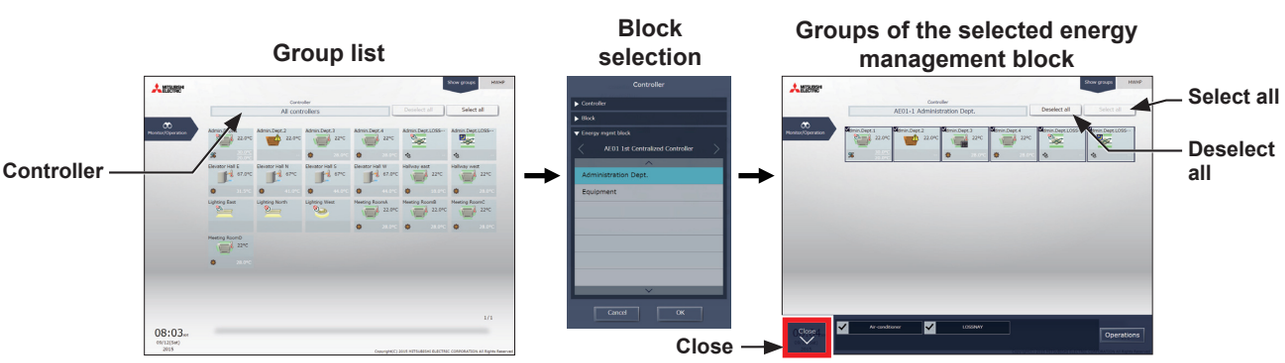
(4) Selecting all groups in a given block that are managed by general users

(1) In the group list, click [Controller]. In the block selection screen, select a block.
The unit groups that belong to the selected block will appear.
In the group list (block units), click [Select all]. All icons will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



(5) Selecting all groups in a given energy management block that are managed by general users

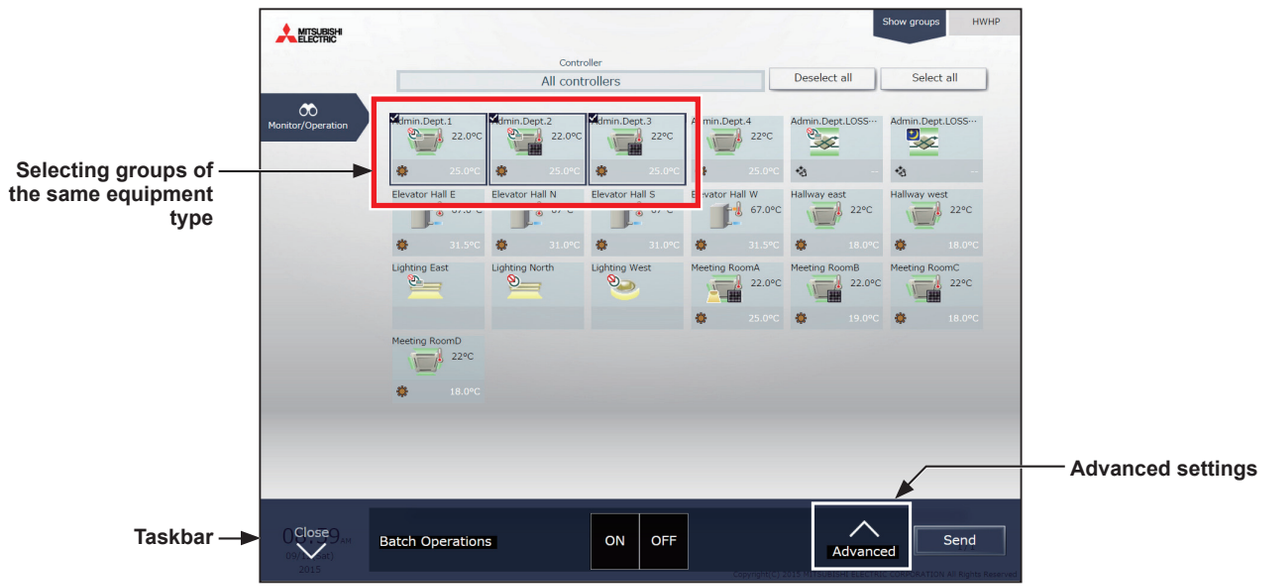
(1) In the group list, click [Controller]. In the block selection screen, select an energy management block.
The unit groups that belong to the selected energy management block will appear.
In the group list (energy management block units), click [Select all]. All icons will appear with a checkmark and a dark blue frame.
To cancel all group selections, click [Deselect all] or [Close] in the taskbar.



[2] Selecting equipment type

(1) When the equipment types of all selected groups are the same

Selecting the group icons to operate and clicking [Advanced] in the taskbar will bring up the operation settings screen for the selected groups.
Refer to section 1-1-5 “Advanced settings” for details about the advanced settings.



Note: [ON] and [OFF] operations can be performed on the taskbar for the selected unit groups.

(2) When the equipment types of the selected groups are different

Selecting the group icons to operate will bring up the equipment type selection options in the taskbar.
Select an equipment type, and click [Operations] to display the operation settings screen.
Refer to section 1-1-5 “Advanced settings” for details about the advanced settings.



Note: When two or more equipment types are selected, only the [ON/OFF] and [Schedule] settings can be configured.

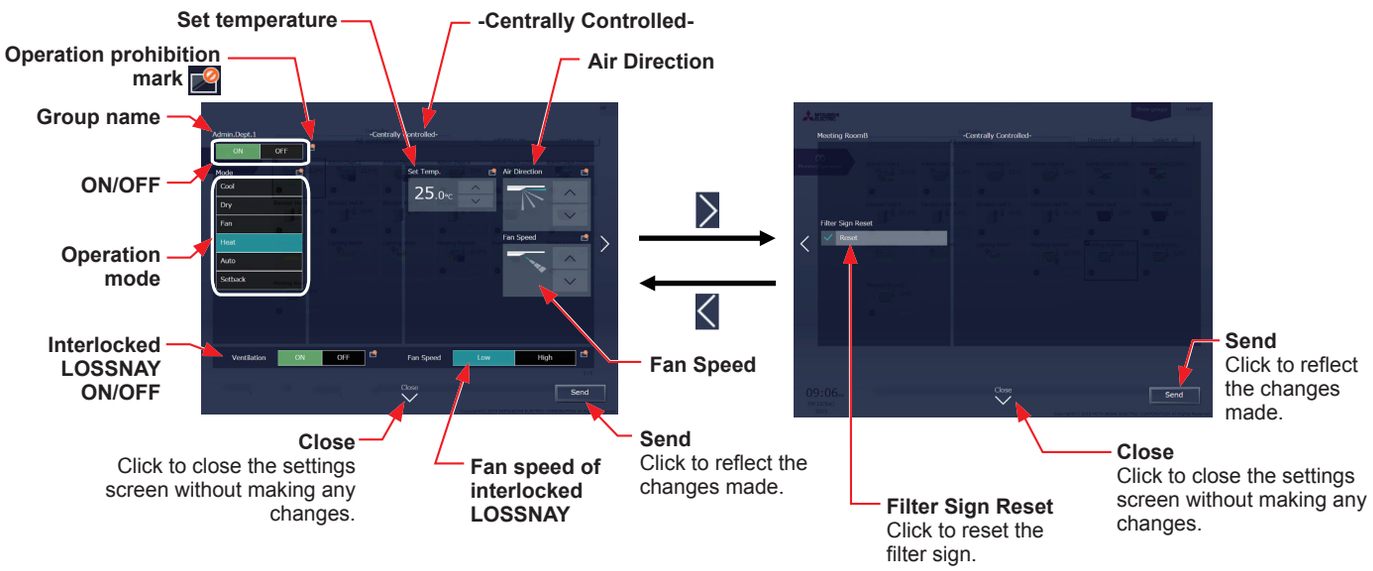
Note: [Other equipment] in the taskbar indicates general equipment.

1-1-5. Advanced settings

In the group list, selecting the group icon(s) and clicking [Advanced] in the taskbar will bring up the operation settings screen for the selected group(s). The current operation status will appear.
Change necessary operation settings, and then click [Send] to reflect the changes. Click [Close] to return to the previous screen without making any changes.

Note: When the setting is changed from other controllers, the operation status shown on the screen will not be updated while the screen is open.

[1] Air conditioning unit group

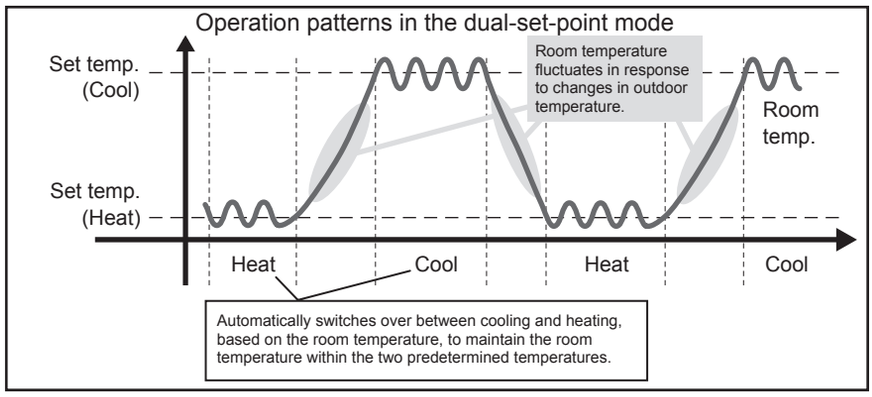


Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units.
Operation mode	Select an operation mode.	Click the desired operation mode. [Cool], [Dry], [Fan], [Heat], [Auto], [Setback] Note: When the operation mode signals from the cooling/heating switchover model of units are mixed (Cool and Heat), the operation mode will not change and the selected operation mode will blink. Note: The Setback mode can be selected on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Set temperature	Adjust the set temperature with the ∧ ∨ buttons.	Depending on settings values resulting from restrictions by device functions and set temperature range restriction functions, temperature settings ranges may be restricted. Note: For the same indoor unit, when changing operation mode and set temperature from multiple operation devices (system controllers, remote controllers), display of outside the allowable settings range may occur. Note: Depending on the unit model, setting in 0.5°C units and 1°C units is possible. Note: If the indoor unit supports the dual-set-point function in the Auto mode and when the operation mode above is set to Auto or Setback, two set temperatures for Cool mode and Heat mode can be set. For details about the dual-set-point function, refer to page 161. Note: When the indoor units that support the dual-set-point function and the indoor units that do not support the dual-set-point function exist in the same group, only one set temperature can be set in the Auto mode.
Air Direction	Adjust the air direction with the ∧ ∨ buttons.	
Fan Speed	Adjust the fan speed with the ∧ ∨ buttons.	

Item	Operation method	Description
Interlocked LOSSNAY ON/OFF	Select [ON] or [OFF].	Turns on or off the interlocked LOSSNAY units (ventilator).
Fan speed of interlocked LOSSNAY	Select [High] or [Low].	Switches the fan speed of the interlocked LOSSNAY units (ventilator).
Filter Sign Reset	Select [Reset] and click [Send].	Resets the filter sign. (The cumulative time will be reset.) When resetting, ensure the check mark is displayed as “ ”. Note: Reset the filter sign after cleaning the filter. Note: After the filter sign is reset, it takes up to an hour to clear the filter sign display on the local remote controllers.
Operation prohibition mark	Display only	Operation prohibition mark is displayed on the operation items that are prohibited from the local remote controllers. -Centrally Controlled- is displayed when one or more operation items are prohibited. Note: The operation prohibition setting can be made by a building manager and tenant managers.
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

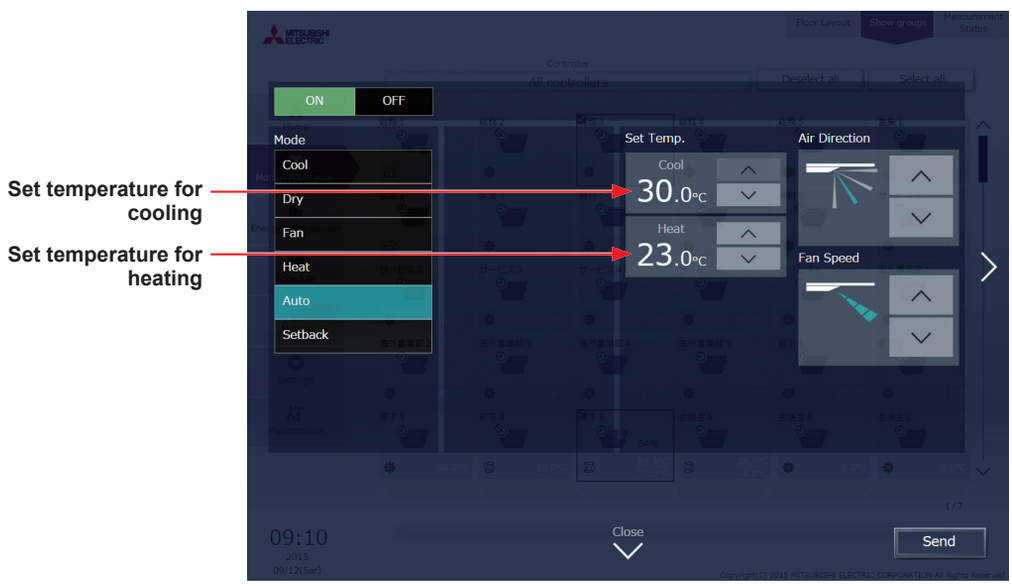
* After [Send] is clicked, it takes a while for the status of the LOSSNAY unit group icons to be updated.
* If a LOSSNAY unit is interlocked with the operation of indoor units in multiple groups, the LOSSNAY unit may be in operation, even when the LOSSNAY unit is displayed as “stopped”.

Note: When the indoor units support a dual-set-point function, two different set temperatures (one for cooling and the other for heating) can be set for the Auto mode. When this function is used, indoor units automatically switch over between cooling and heating, based on the room temperature, to maintain the room temperature within the two predetermined temperatures. The graph below shows an example of operation patterns of units operated in the dual-set-point mode.

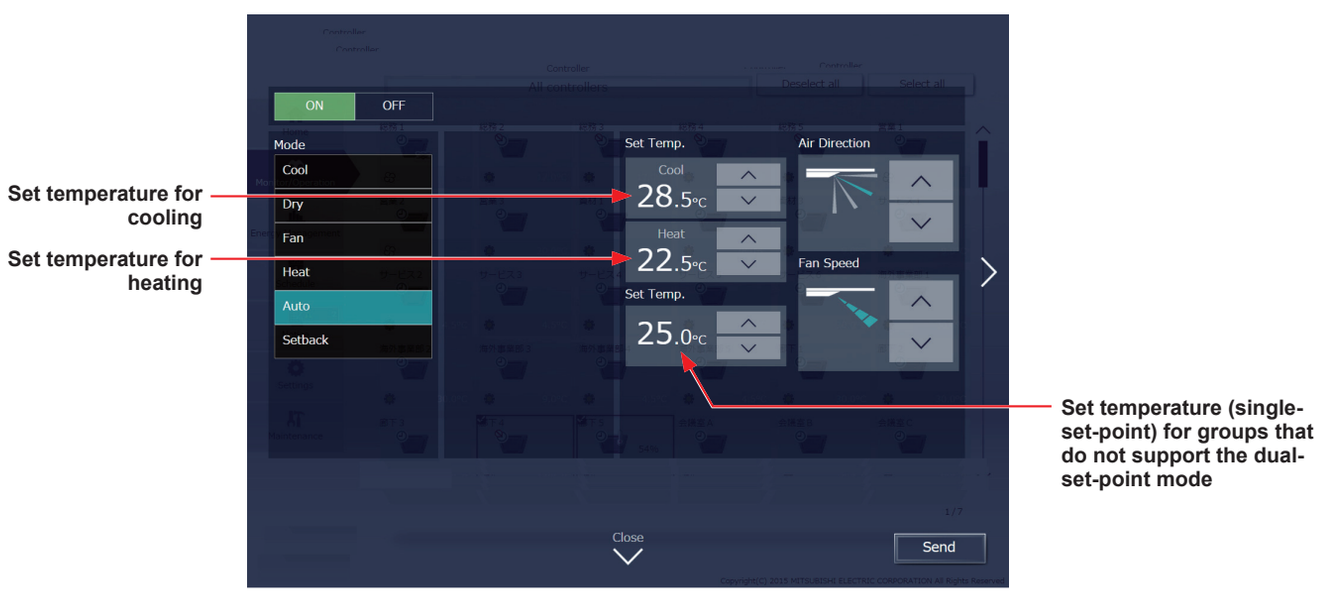


If the indoor units of the selected unit group support the dual-set-point function, two different set temperatures (one for cooling and the other for heating) can be set.

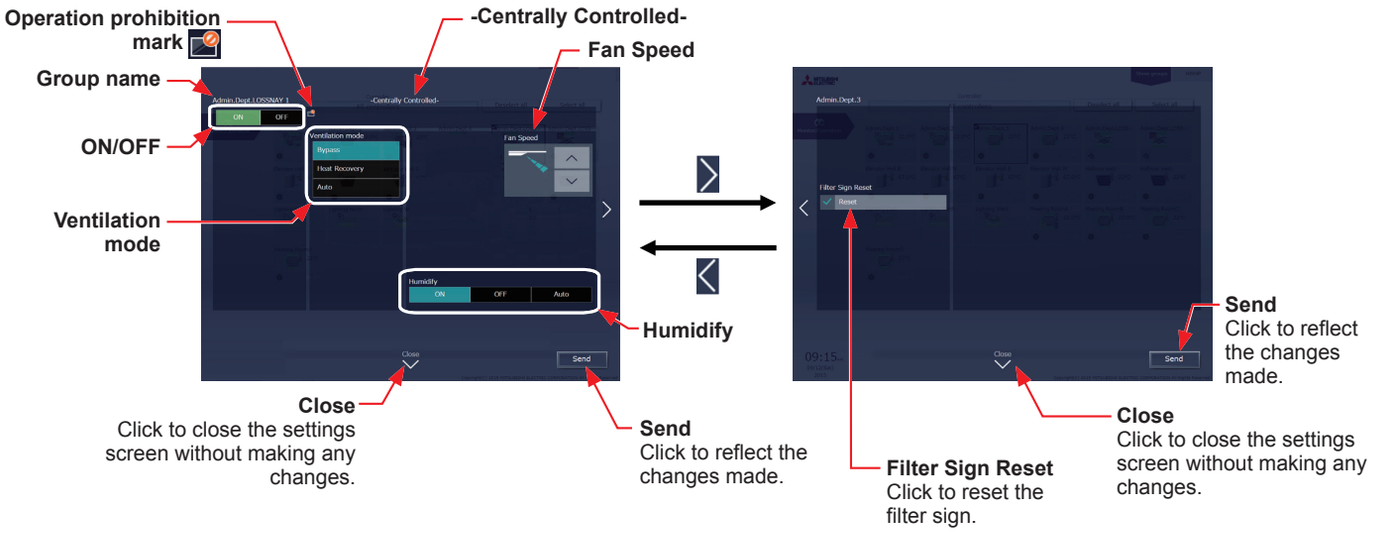
(1) Temperature setting for a group in which all indoor units support dual-set-point mode



(2) Temperature setting for when the groups that support the dual-set-point mode and the groups that do not are selected together

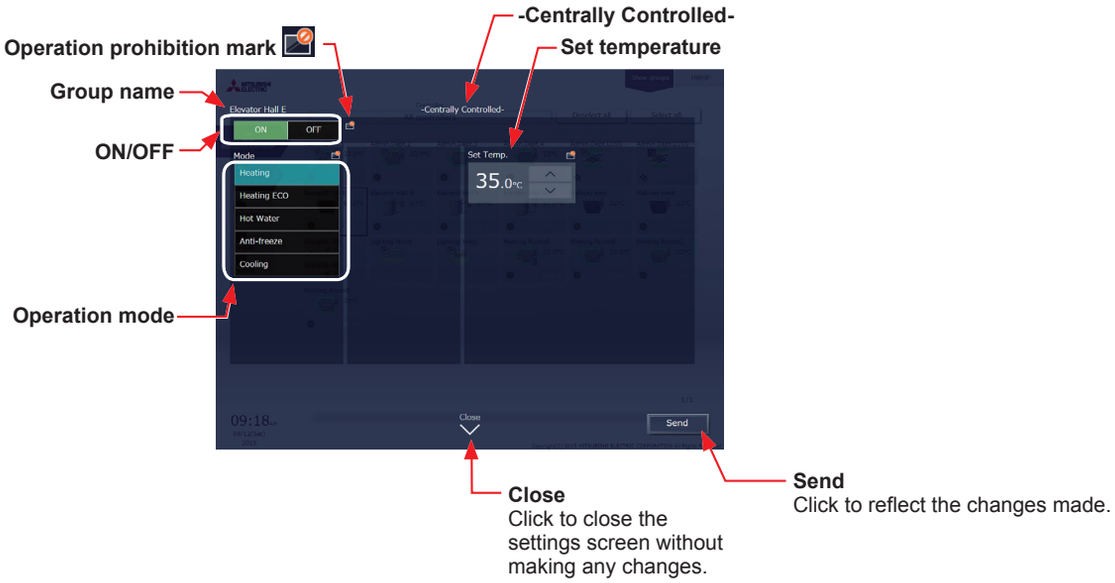


[2] LOSSNAY unit (ventilator) group



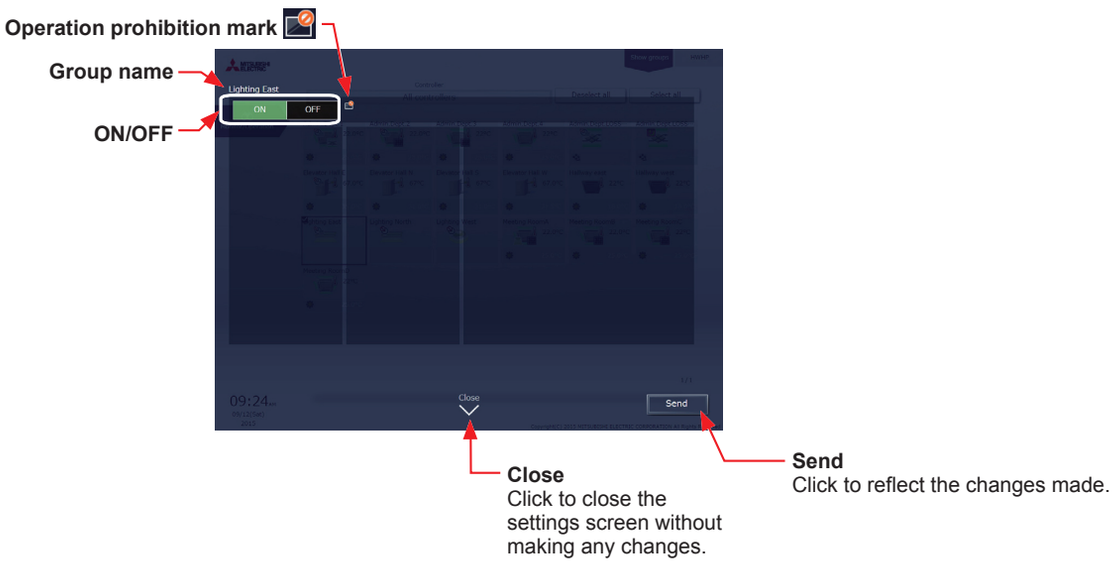
Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units. Note: If the units are turned off during the Night Purge operation, the Night Purge operation will not be performed until the next day.
Ventilation mode	Select a ventilation mode.	Click the desired ventilation mode. [Bypass], [Heat Recovery], [Auto] Note: This item will not appear during the Night Purge operation.
Fan Speed	Adjust the fan speed with the ∧ ∨ buttons.	 Note: During the Night Purge operation, the fan speed can be adjusted but will not be displayed.
Humidify	Select [ON], [OFF], or [Auto].	Switches the operation status of the humidification function. Note: This item will not appear during the Night Purge operation.
Filter Sign Reset	Select [Reset] and click [Send].	Resets the filter sign. (The cumulative time will be reset.) When resetting, ensure the check mark is displayed as " ✓ ". Note: Reset the filter sign after cleaning the filter. Note: After the filter sign is reset, it takes up to an hour to clear the filter sign display on the local remote controllers.
Operation prohibition mark	Display only	Operation prohibition mark is displayed on the operation items that are prohibited from the local remote controllers. -Centrally Controlled- is displayed when one or more operation items are prohibited. Note: The operation prohibition setting can be made by a building manager and tenant managers.
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

[3] Air To Water (PWFY) unit group



Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units.
Operation mode	Select an operation mode.	Click the desired operation mode. [Heating], [Heating ECO], [Hot Water], [Anti-freeze], [Cooling]
Set temperature	Adjust the set temperature with the ∧ ∨ buttons.	The settable temperature ranges depend on the operation mode and the unit model.
Operation prohibition mark	Display only	Operation prohibition mark is displayed on the operation items that are prohibited from the local remote controllers. -Centrally Controlled- is displayed when one or more operation items are prohibited. Note: The operation prohibition setting can be made by a building manager and tenant managers.
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

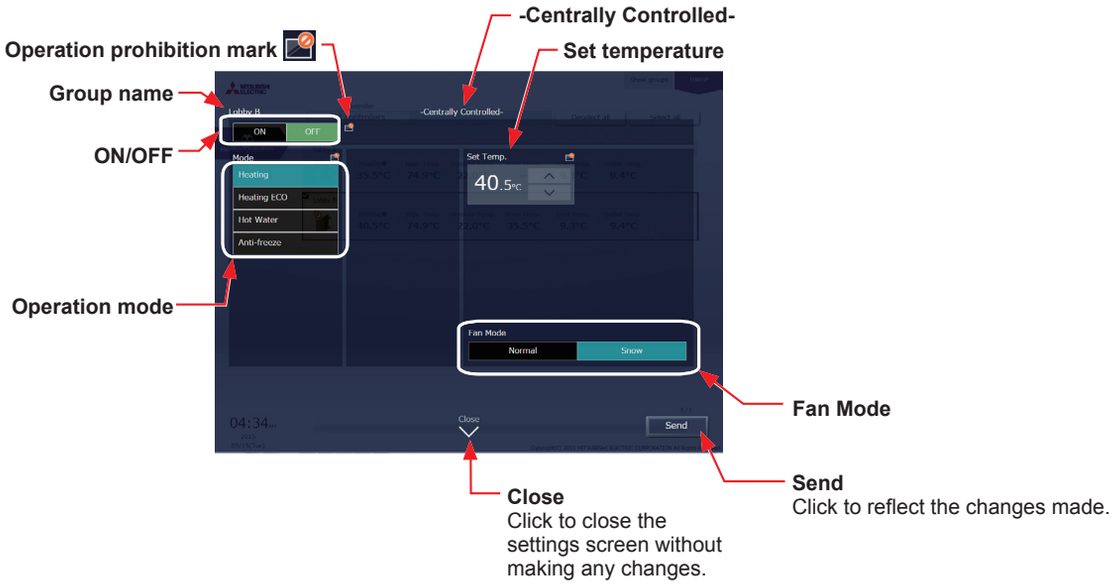
[4] Other equipment group



Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units.
Operation prohibition mark	Display only	Operation prohibition mark is displayed when the operation is prohibited from the local remote controllers.
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

Note: General equipment whose prohibition setting is enabled (“Allow operations” is set to [No operations] on the group settings screen in the initial settings) cannot be operated and an operation prohibition mark is displayed. Refer to the Instruction Book (Initial Settings) for settings methods.

[5] HWHP (CAHV, CRHV) unit group



Item	Operation method	Description
ON/OFF	Select [ON] or [OFF].	Turns on or off the units.
Operation mode	Select an operation mode.	Click the desired operation mode. [Heating], [Heating ECO], [Hot Water], [Anti-freeze]
Set temperature	Adjust the set temperature with the ∧ ∨ buttons.	The settable temperature ranges depend on the operation mode and the unit model.
Fan Mode	Select [Normal] or [Snow].	This item will appear only on the operation settings screen for HWHP (CAHV) unit groups. The fan can be set to keep rotating even while the unit is stopped to avoid snow accumulation on the fan guard during the winter. Select [Normal] to stop the fan while the unit is stopped. Select [Snow] to operate the fan even while the unit is stopped. Note: The fan mode for CRHV units cannot be operated.
Operation prohibition mark	Display only	Operation prohibition mark is displayed on the operation items that are prohibited from the local remote controllers. -Centrally Controlled- is displayed when one or more operation items are prohibited. Note: The operation prohibition setting can be made by a building manager and tenant managers.
Send	Click [Send].	Click to reflect the changes made and return to the group list.
Close	Click [Close].	Click to return to the group list without making any changes.

2. Usage (Smartphone)

This section explains how to monitor and operate the air conditioning units, LOSSNAY units, Air To Water (PWFY) units, and general equipment that are connected to the AE-200/AE-50/EW-50.

Login URL: http://[IP address of the login destination centralized controller AE-200/EW-50]/mobile/index.html

Note: Be sure to use a smartphone in portrait mode.

2-1. Monitoring the operation status

This section explains how to monitor the operation status of all groups collectively (see section 2-1-1 “Checking the operation status”).

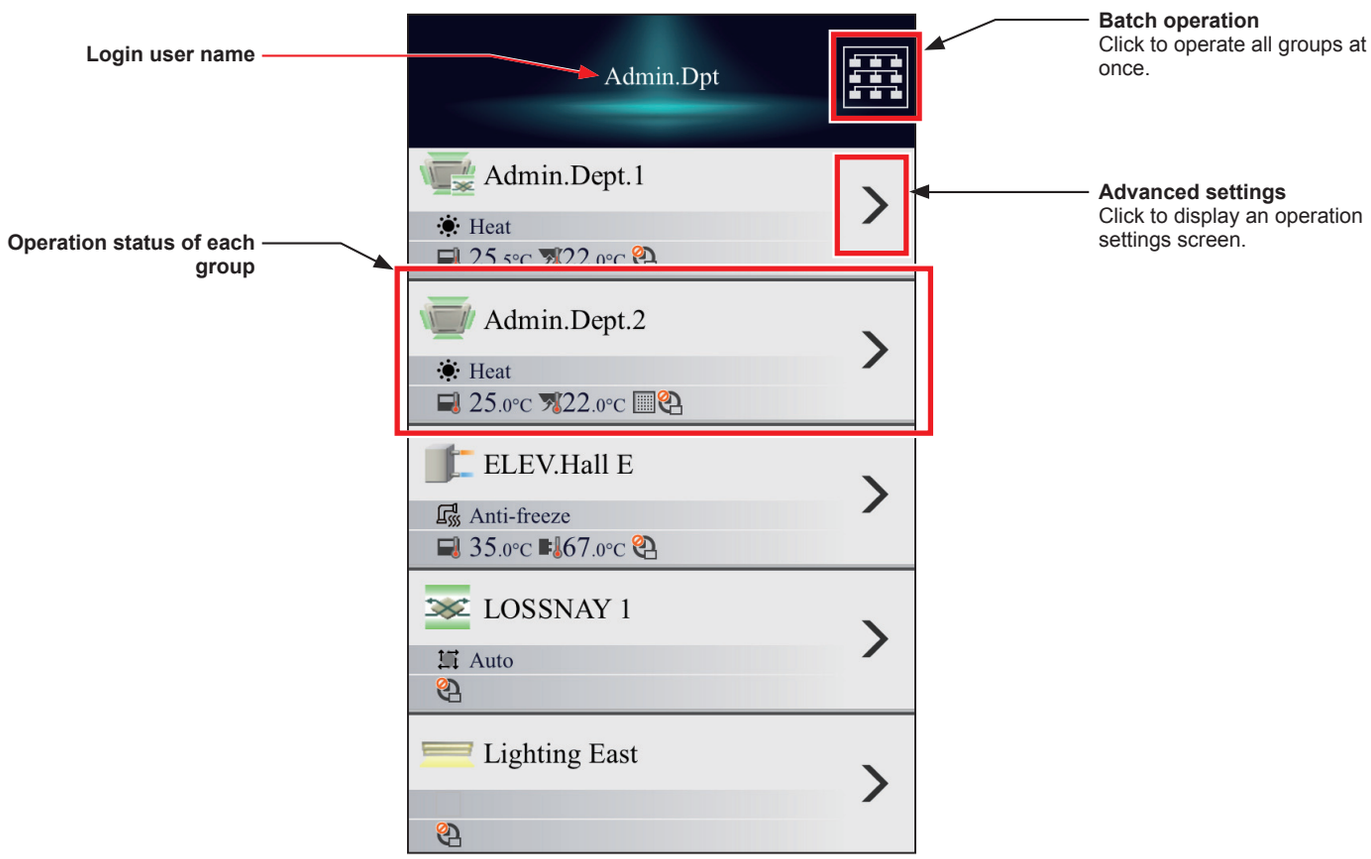
After login, the group list will appear, which shows the operation conditions of all air conditioning unit groups, LOSSNAY unit (ventilator) groups, Air To Water (PWFY) unit groups, and general equipment groups.

Note: HWHP (CAHV, CRHV) units cannot be operated on a smartphone.

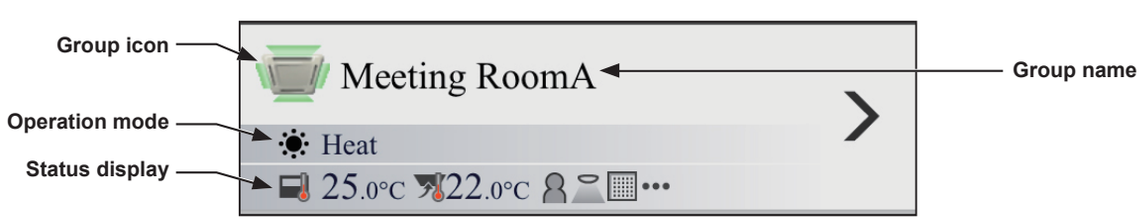
2-1-1. Checking the operation status

In the group list, the operation status of all groups can be monitored. The operator can also check the unit malfunctions in this list and prevent the units from being left on unintentionally.

<Group list>



<Operation status of each group>



2-1-2. Group icons

Each group icon indicates the operation condition of the group.

Unit	ON/OFF	Error	Interlocked LOSSNAY ON/OFF	Unit unknown
Air conditioning unit group				
LOSSNAY unit (ventilator) group				
General equipment group				
Air To Water (PWFY) unit group				

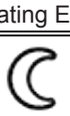
Note: Icons can be changed in the group settings screen in the initial settings. Refer to the Instruction Book (Initial Settings) for settings methods.

2-1-3. Operation mode

The operation mode of each group currently in use is displayed.

Unit	Cool	Dry	Fan	Heat	Auto	Auto		Setback
						Cool	Heat	
Air conditioning unit group								

Unit	Bypass	Heat Recovery	Auto
LOSSNAY unit (ventilator) group			

Unit	Heating	Heating ECO	Hot Water	Anti-freeze	Cooling
Air To Water (PWFY) unit group					

2-1-4. Status display

The setting information and operation status of each group are displayed by icons.

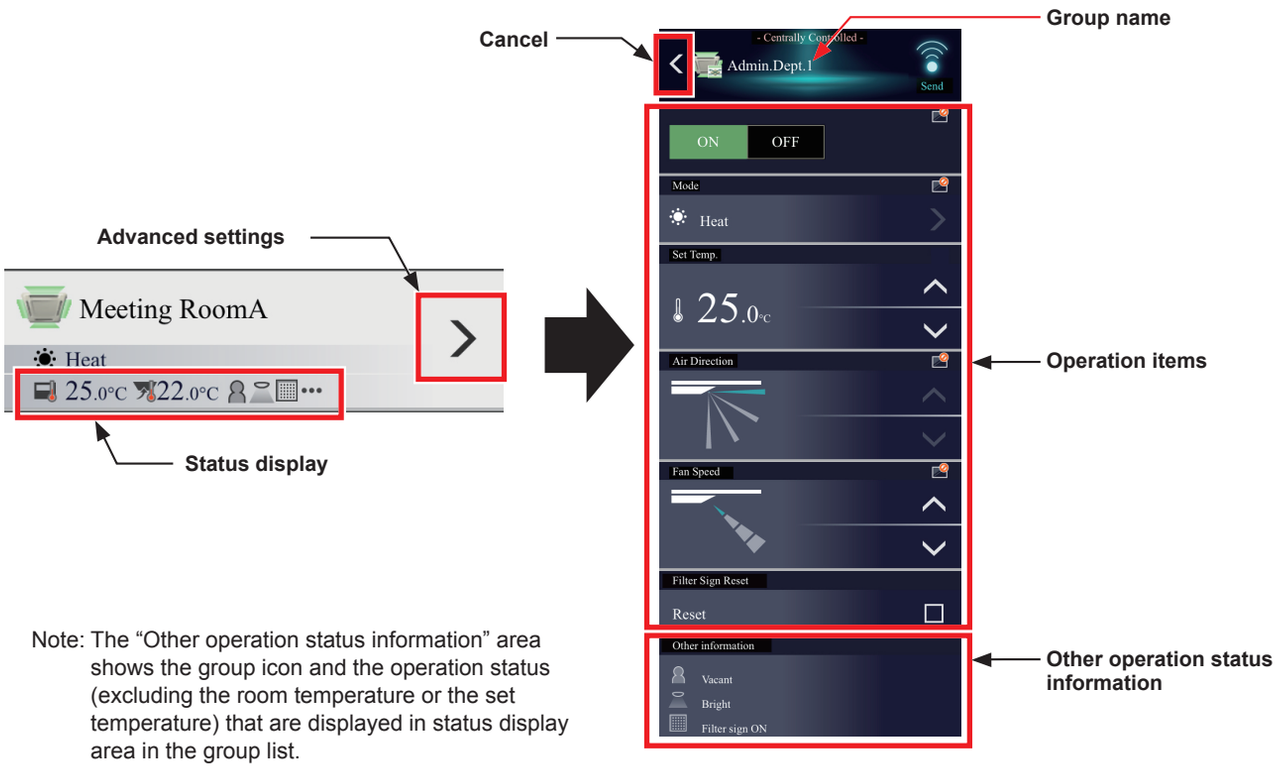
Icon	Description
	Set temperature (Cool/Heat)
	Room temperature
	Humidity
	Night Purge ON
	Setback ON
	Energy saving control
	Occupied/Vacant
	Bright/Dark
	Filter sign ON
	Schedule disabled
	Schedule set
	Hold ON
	Status display skipped

2-2. Operation

This section explains how to operate each group (see section 2-2-1 “Operating the units”) and all groups collectively (see section 2-2-2 “Operating the units in all groups”).

2-2-1. Operating the units

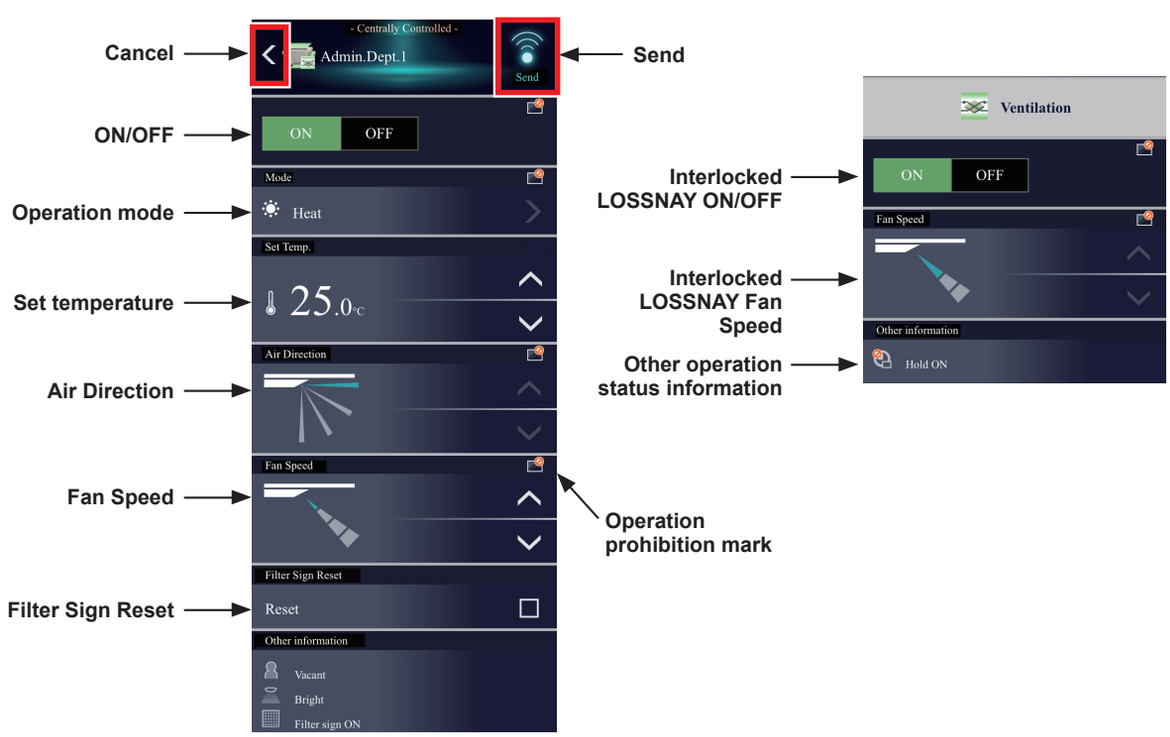
In the group list, click [Advanced settings] to switch to the operation settings screen, which shows the current operation status in the “Operation items” and “Other operation status information” areas. Change the desired operation items and touch [Send] to reflect the changes. Touch [Cancel] to return to the group list without sending any changes.

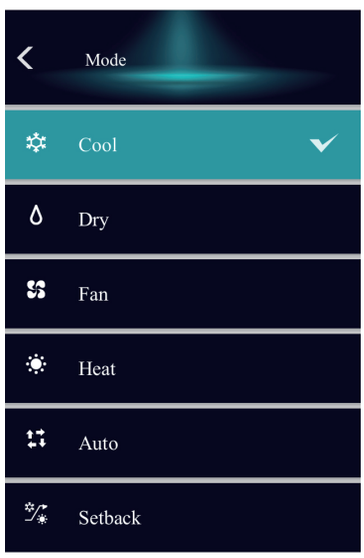


Note: The “Other operation status information” area shows the group icon and the operation status (excluding the room temperature or the set temperature) that are displayed in status display area in the group list.

[1] Air conditioning unit group

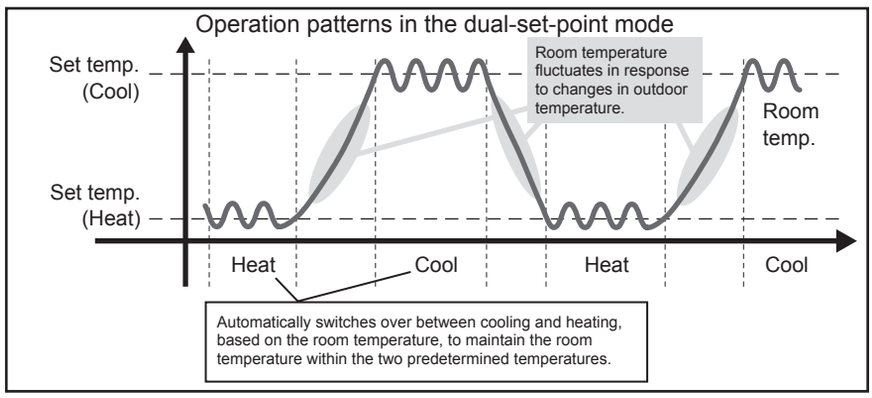
Operation settings screen for air conditioning unit groups is as follows.
If Interlocked LOSSNAY (ventilator) is set, then under the air conditioning unit group operating items will be displayed the interlocked LOSSNAY operating items.



Item	Description
ON/OFF	Touch [ON] or [OFF] to turn on or off the units. Note: Switching this setting will turn on or off the LOSSNAY unit as well that is interlocked with the operation of indoor units in the group. To turn on or off the LOSSNAY unit only, use the “Interlocked LOSSNAY ON/OFF” switch.
Operation mode	Touch > to display the operation mode selection screen, and select the desired operation mode. Touch < to return to the operation settings screen.  Note: When the operation mode signals from the cooling/heating switchover model of units are mixed (Cool and Heat), the operation mode will not change and the selected operation mode will blink. Note: The Setback mode can be selected on the AE-200A/AE-50A/EW-50A, but not on the AE-200E/AE-50E/EW-50E.
Set temperature	Touch ∧ or ∨ to change the set temperature. Depending on settings values resulting from restrictions by device functions and set temperature range restriction functions, temperature settings ranges may be restricted. Note: Depending on the unit model, setting in 0.5°C units and 1°C units is possible. Note: If the indoor unit supports the dual-set-point function and when the operation mode above is set to Auto or Setback, two set temperatures for Cool mode and Heat mode can be set.
Air Direction	Touch ∧ or ∨ to adjust the air direction. 
Fan Speed	Touch ∧ or ∨ to adjust the fan speed. 
Filter Sign Reset	Click ☐ to switch between resetting and not resetting the filter sign. To reset, display a checkmark (☑). Note: If a filter sign in the group has not been triggered, then this item will not appear.
Interlocked LOSSNAY ON/OFF	Touch [ON] or [OFF] to turn on or off the interlocked LOSSNAY units (ventilator). Note: For a group that is not connected to an interlocked LOSSNAY unit (ventilator), this item will not appear.
Fan speed of interlocked LOSSNAY	Touch ∧ or ∨ to adjust the fan speed of the interlocked LOSSNAY units (ventilator). Note: For a group that is not connected to an interlocked LOSSNAY unit (ventilator), this item will not appear.
Other operation status information	Operation status other than the operation items will appear.
Operation prohibition mark	Operation prohibition mark is displayed on the operation items that are prohibited from the local remote controllers. - Centrally Controlled - is displayed when one or more operation items are prohibited. Note: The operation prohibition setting can be made by a building manager and tenant managers.

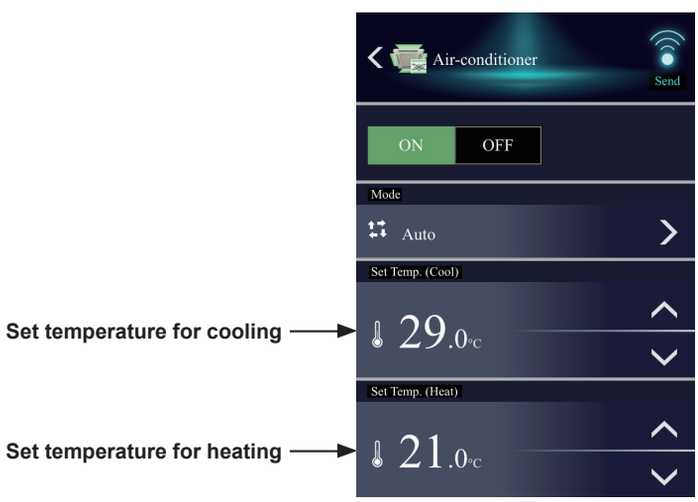
Item	Description
Send	Touch Send to reflect the changes and return to the group list.
Cancel	Touch to return to the group list without sending any changes.

Note: When the indoor units support a dual-set-point function, two different set temperatures (one for cooling and the other for heating) can be set for the Auto mode. When this function is used, indoor units automatically switch over between cooling and heating, based on the room temperature, to maintain the room temperature within the two predetermined temperatures. The graph below shows an example of operation patterns of units operated in the dual-set-point mode.

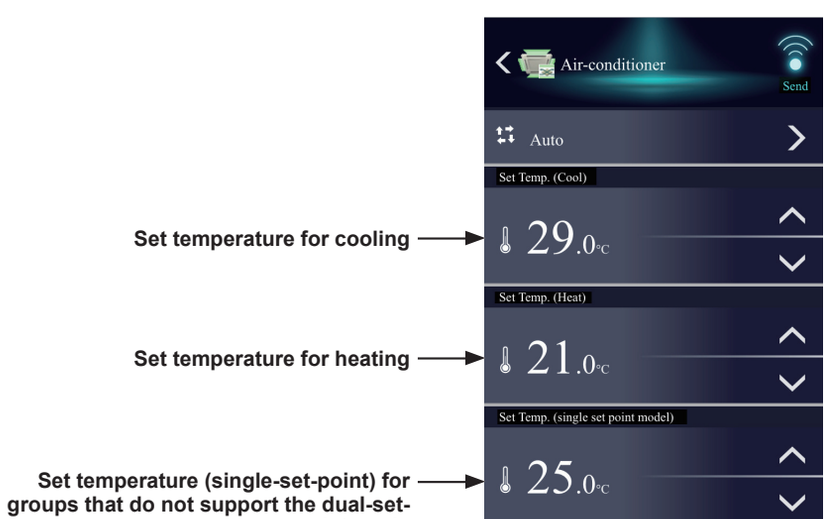


If the indoor units of the selected unit group support the dual-set-point function, two different set temperatures (one for cooling and the other for heating) can be set.

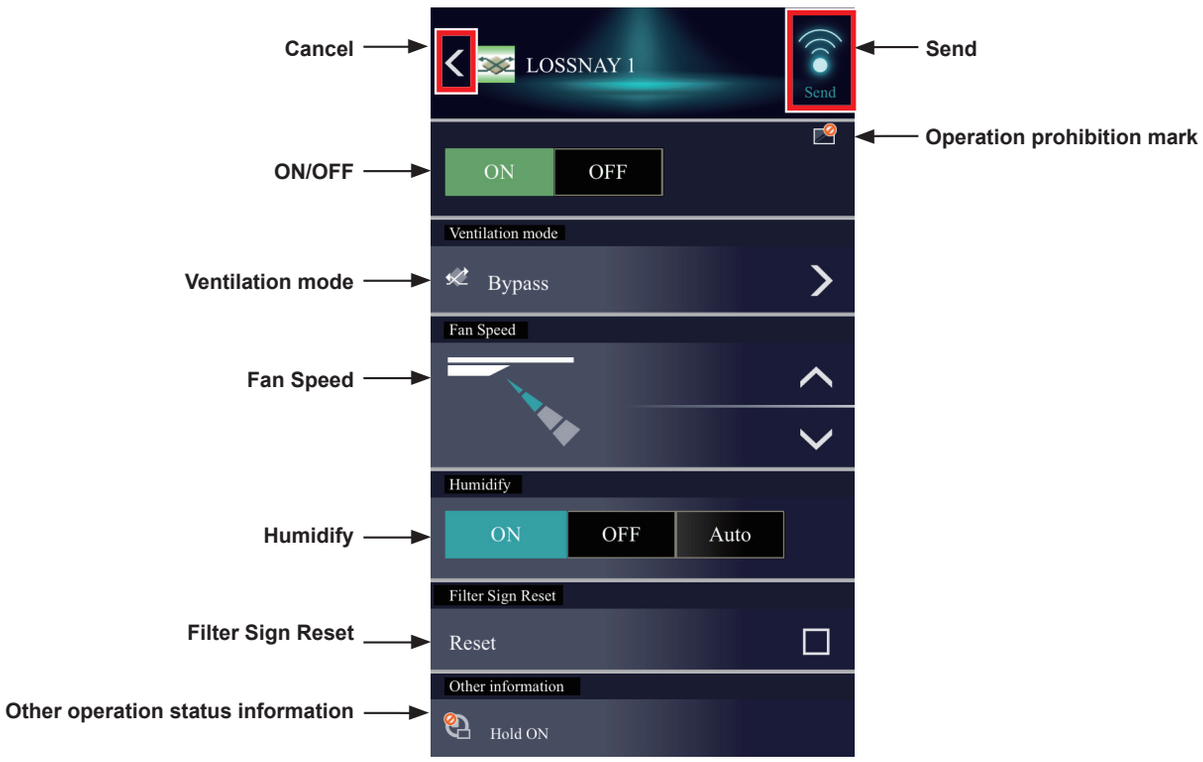
(1) Temperature setting for a group in which all indoor units support dual-set-point mode

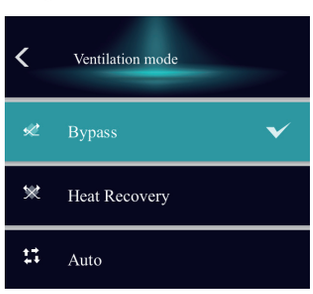


(2) Temperature setting for when the groups that support the dual-set-point mode and the groups that do not are selected together



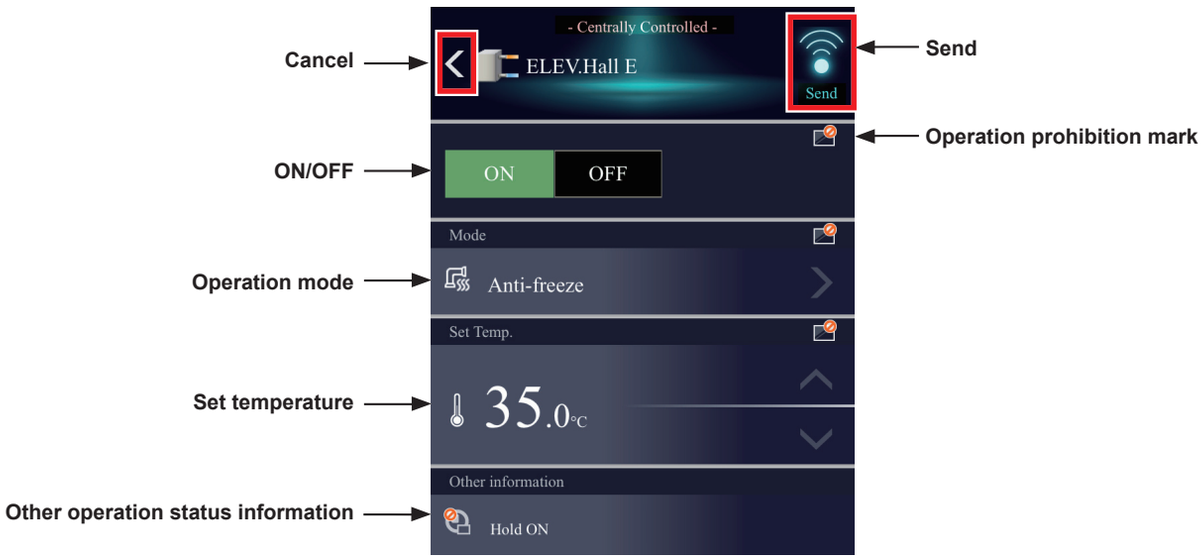
[2] LOSSNAY unit (ventilator) group

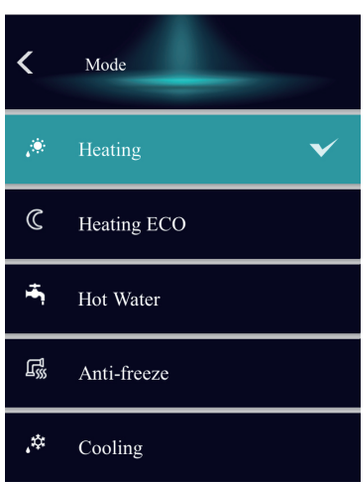


Item	Description
ON/OFF	Touch [ON] or [OFF] to turn on or off the units. Note: If the units are turned off during the Night Purge operation, the Night Purge operation will not be performed until the next day.
Ventilation mode	Touch ▶ to display the ventilation mode selection screen, and select the desired ventilation mode. Touch ◀ to return to the operation settings screen.  Note: This item will not appear during the Night Purge operation.
Fan Speed	Touch ▲ or ▼ to adjust the fan speed.  Note: During the Night Purge operation, the fan speed can be adjusted but  will not be displayed.
Humidify	Touch [ON], [OFF], or [Auto] to switch the operation status of the humidification function. Note: This item will not appear during the Night Purge operation.
Filter Sign Reset	Click ☐ to switch between resetting and not resetting the filter sign. To reset, display a checkmark (☑). Note: If a filter sign in the group has not been triggered, then this item will not appear.
Other operation status information	Operation status other than the operation items will appear.
Operation prohibition mark	Operation prohibition mark  is displayed on the operation items that are prohibited from the local remote controllers. - Centrally Controlled - is displayed when one or more operation items are prohibited. Note: The operation prohibition setting can be made by a building manager and tenant managers.

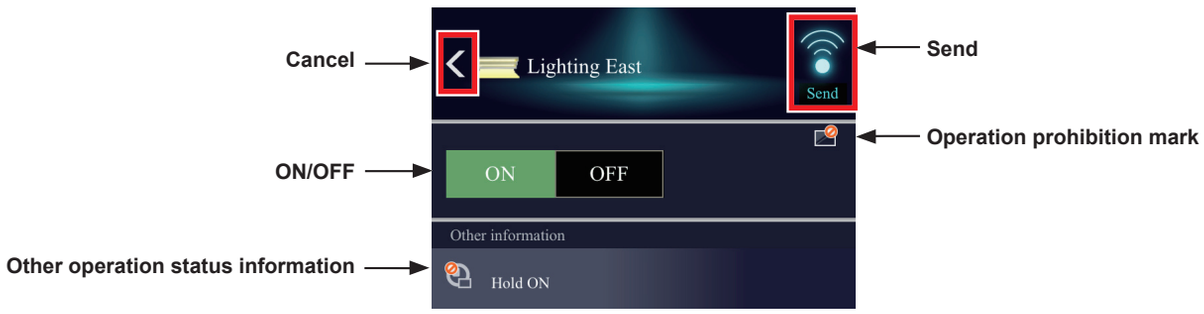
Item	Description
Send	Touch to reflect the changes and return to the group list.
Cancel	Touch to return to the group list without sending any changes.

[3] Air To Water (PWFY) unit group



Item	Description
ON/OFF	Touch [ON] or [OFF] to turn on or off the units.
Operation mode	Touch to display the operation mode selection screen, and select the desired operation mode. Touch to return to the operation settings screen. 
Set temperature	Touch or to change the set temperature.
Other operation status information	Operation status other than the operation items will appear.
Operation prohibition mark	Operation prohibition mark is displayed on the operation items that are prohibited from the local remote controllers. - Centrally Controlled - is displayed when one or more operation items are prohibited. Note: The operation prohibition setting can be made by a building manager and tenant managers.
Send	Touch to reflect the changes and return to the group list.
Cancel	Touch to return to the group list without sending any changes.

[4] General equipment group



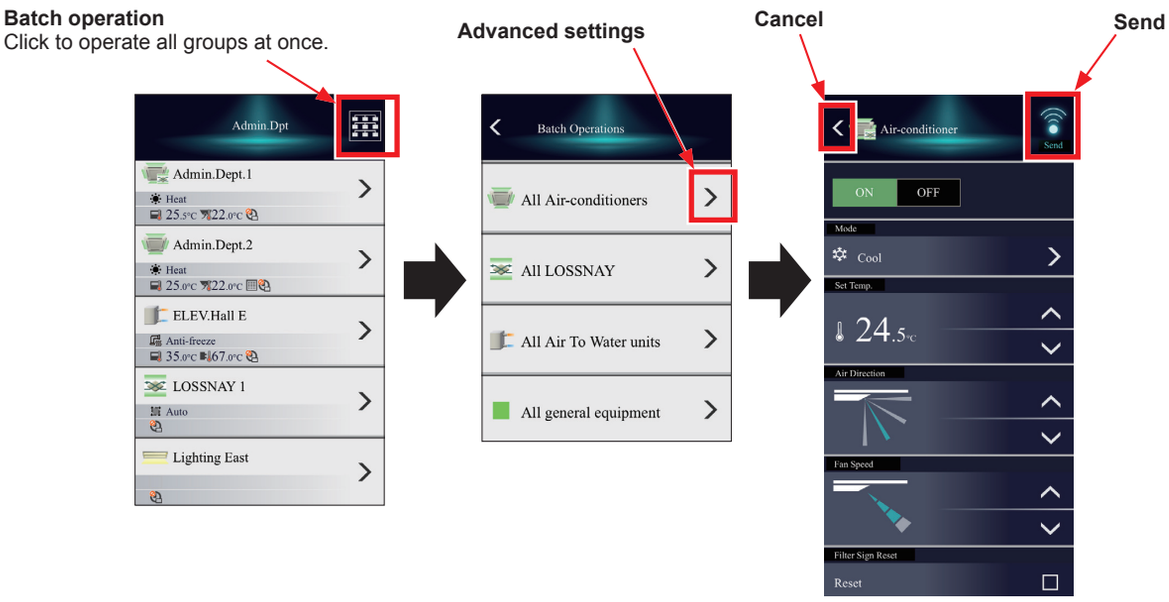
Item	Description
ON/OFF	Touch [ON] or [OFF] to turn on or off the units.
Other operation status information	Operation status other than the operation items will appear.
Operation prohibition mark	Operation prohibition mark is displayed when the operation is prohibited from the local remote controllers.
Send	Touch Send to reflect the changes and return to the group list.
Cancel	Touch to return to the group list without sending any changes.

Note: General equipment whose prohibition setting is enabled (“Allow operations” is set to [No operations] on the group settings screen in the initial settings) cannot be operated and an operation prohibition mark is displayed. Refer to the Instruction Book (Initial Settings) for settings methods.

2-2-2. Operating the units in all groups

(1) In the group list, touch [Batch operation]. If different equipment types exist together in a system, a screen to select an equipment type will appear.
Touch [Advanced settings] of an equipment type of the groups to collectively change their settings.

(2) In the operation settings screen, change the required settings and touch [Send] to reflect the changes.
Click [Cancel] to return to the previous screen without making any changes.



Note: For groups that have set temperature ranges limit, then the range of temperatures that can be set is restricted.

Note: If there are groups for which some items cannot be operated within the corresponding group, then sending these items to that group is not possible.

Chapter 5. Troubleshooting

This section shows the troubleshooting for when using Integrated Centralized Control Web.

No.	Phenomenon	Check of cause	Corrective action
1	I wish to use HTTPS (SSL).	–	• Register a certificate to the PC, tablet, or smartphone you are using. Refer to 1 “HTTPS (SSL) connection”.
2	The layout in Integrated Centralized Control Web is broken. Or, the buttons do not work.	• The software version of AE-200/AE-50/EW-50 was updated. • The settings were changed using Initial Setting Tool.	• Delete the history of the browser you are using. Refer to 2 “When the layout is broken”.
3	The login screen is not displayed.	• The URL entered in the browser is incorrect.	• Check that the IP address of the AE-200/EW-50 that is the login destination for Integrated Centralized Control Web is correct. • Check the setting using Initial Setting Tool. Refer to 3-1 “Checking the login destination IP address”.
		• The software versions of AE-200/AE-50/EW-50 are not the same.	• Contact your dealer or a manufacturer-specified service company. Refer to 3-2 “Mismatched software versions”.
		• The settings for the Integrated Centralized Control Web have not been made.	• Configure the settings from the Initial Setting Tool. Refer to 3-3 “When the settings for the Integrated Centralized Control Web have not been made”.
4	The air conditioning units that can be monitored and operated are not displayed.	• An error occurred in communication with AE-200/AE-50/EW-50. • The integrated centralized control settings are incorrect.	• Check whether the LAN connection is connected correctly. • Monitor the settings using Initial Setting Tool and check that the centralized controllers target for control are set correctly. Refer to 4 “Air conditioning units that can be monitored and operated are not displayed”.
5	Integrated Centralized Control Web is displayed with the bottom part cut off on a tablet.	–	• Place Integrated Centralized Control Web on the Home screen and start it from the Home screen. Refer to 5 “Screen displayed with bottom part cut off on a tablet”.
6	When the Integrated Centralized Control Web is accessed, the message “Failed to connect to the centralized controller.” appears, and no login window appears.	• An error occurred in communication with the login destination centralized controller.	• Check whether the LAN connection is connected correctly.
7	When the Integrated Centralized Control Web is logged in, the message “The connection to the login destination centralized controller is busy.” appears, and the login process cannot be completed. *1	• More than 50 users are accessing the Integrated Centralized Control Web.	• Reduce the number of users that are accessing the Integrated Centralized Control Web to 50 or less.
8	An error appears on the air conditioning unit.	• The centralized controller is still starting up.	• The startup process will be completed in a while, and the normal icon will appear. * It takes approximately 5 minutes to complete the startup process. * If the problem persists, check for proper connection between the air conditioning unit and the centralized controller, and proper settings for the air conditioning unit group settings.

No.	Phenomenon	Check of cause	Corrective action
9	Logging in takes several minutes.	• There is a device on the same network as the AE-200/AE-50/EW-50 that is monopolizing the communication bandwidth. • Software on the PC, tablet, or smartphone is monopolizing the communication bandwidth.	• Consult the system administrator. • Close the software that is in operation.

*1 When Internet Explorer is used, this message will not appear, but the message “Failed to connect to the centralized controller.” will appear.

1. HTTPS (SSL) connection

This unit can encrypt the transmission data using the HTTPS (SSL) protocol.
When connecting this unit to a LAN that is accessed by an unspecified number of people, you can configure the following settings to enable status monitoring and control of equipment using encrypted webpages.

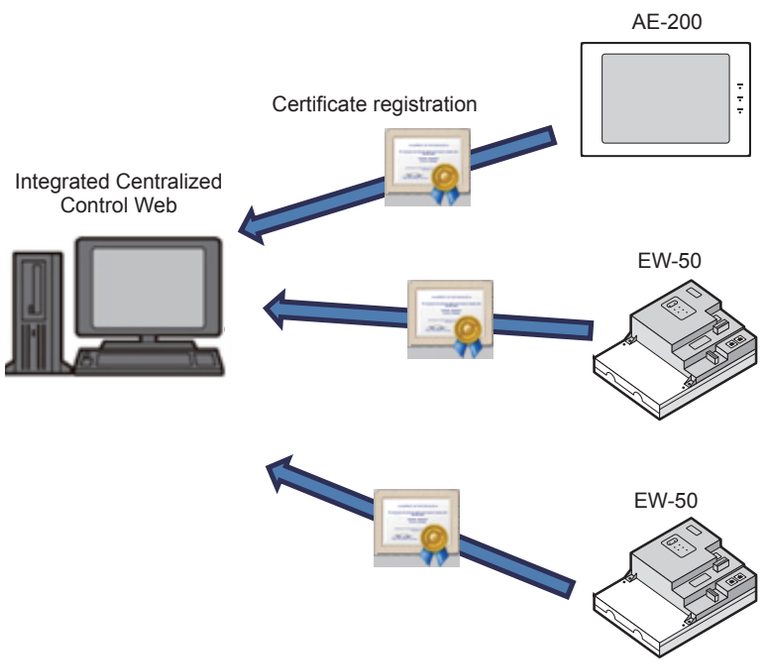
1-1. When using a Windows PC

(1) Register the certificates of all the centralized controllers (AE-200/AE-50/EW-50) to be controlled by Integrated Centralized Control Web to the PC that will be used.

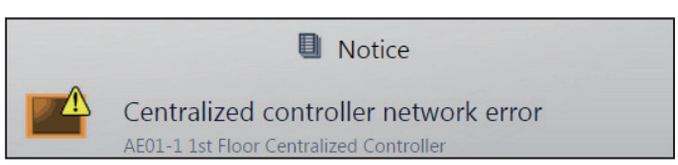
Enter the following webpage address in the address bar of the Web browser.
Enter http://(IP address of AE-200, AE-50, or EW-50)/cacert.cer and then press the [Enter] key.

Example: http://192.168.1.1/cacert.cer

Note: Integrated Centralized Control Web integrates multiple centralized controllers (AE-200/AE-50/EW-50) to monitor and operate the air conditioning units. When the HTTPS (SSL) protocol will be used, the certificates for the multiple centralized controllers to be integrated need to be registered to the PC.



Note: “Centralized controller network error” will be displayed under “Notice” on the Integrated Centralized Control Web when the certificate is not registered for the centralized controller. When this message is displayed, the air conditioning units managed by the centralized controller cannot be monitored and operated.

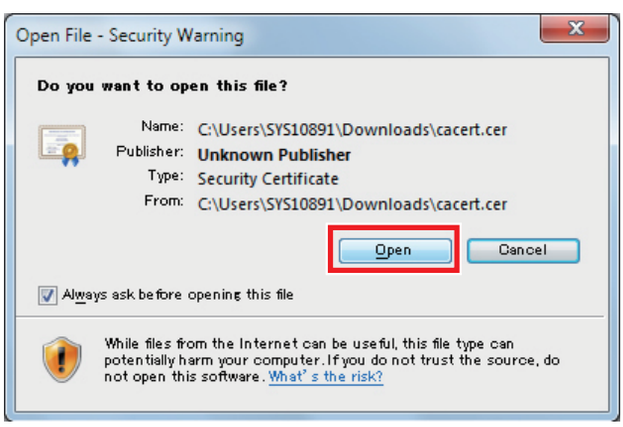


(2) Click and execute the downloaded file “cacert.cer”.

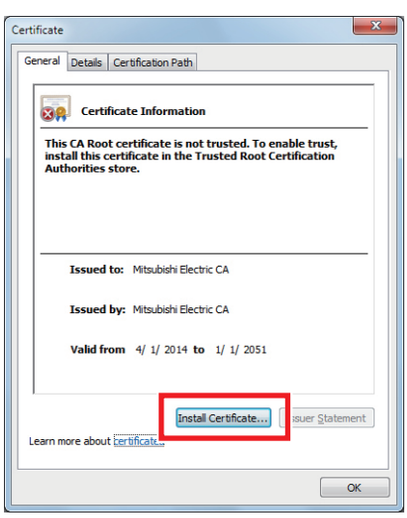
Note: Depending on the browser used, the downloaded file may not be displayed on the task bar. In these cases, run the file “cacert.cer” from the download folder.



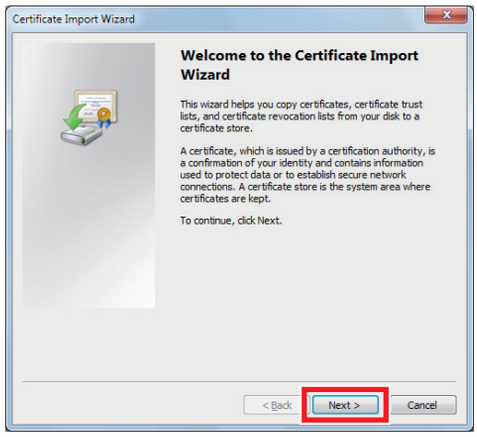
(3) The “Open File” window will appear.
Click [Open].



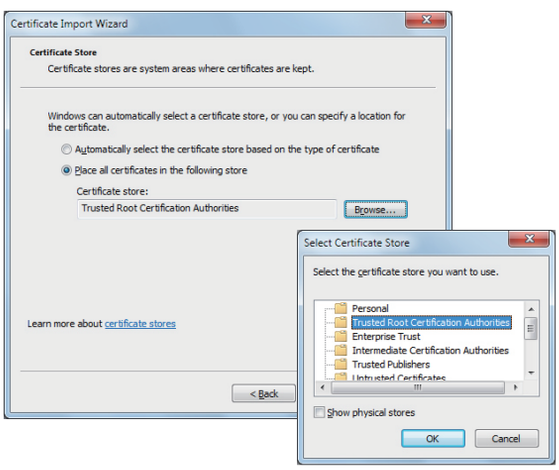
(4) When the Certificate Information screen appears, click [Install Certificate...].



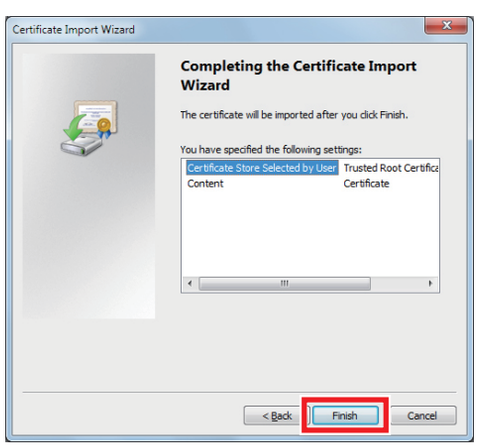
(5) When the Certificate Import Wizard screen appears, click [Next].



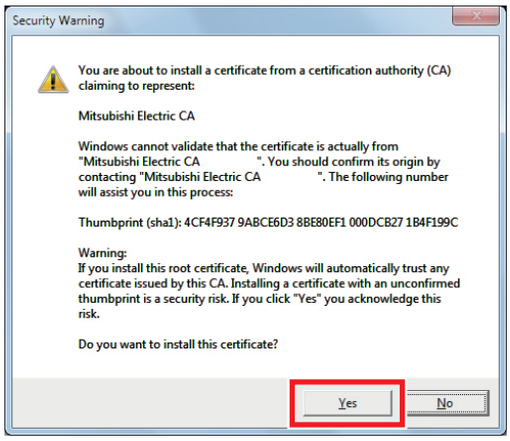
(6) When the Certificate Store screen appears, select [Place all certificates in the following store], click [Browse], select [Trusted Root Certification Authorities], click [OK], and click [Next].



(7) When the Completing the Certificate Import Wizard screen appears, click [Finish].

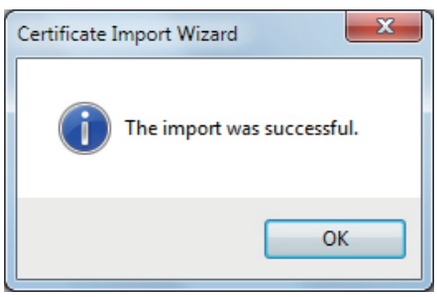


(8) When the certificate installation confirmation screen appears, click [Yes].



(9) The certificate import process begins. When the import completion message appears, click [OK].

Note: The certificate is valid from April 1, 2014, to January 1, 2051.
Set the date and time of the PC so that they are within the validity period.



(10) Repeat steps (1) to (9) to register the certificates of all the centralized controllers (AE-200/EW-50) to be controlled by Integrated Centralized Control Web to the PC.

(11) Log in from Integrated Centralized Control Web.

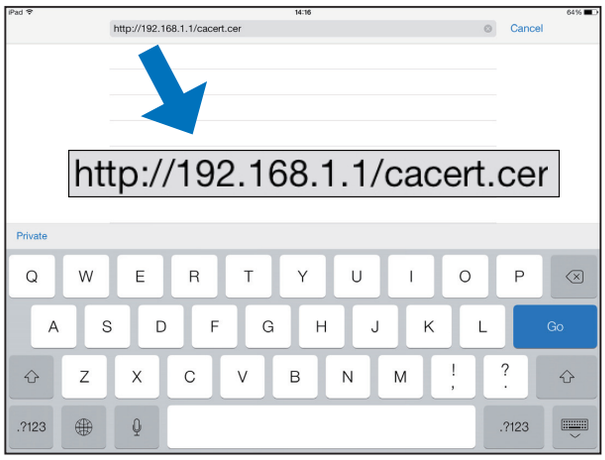
Enter the following webpage address in the address bar of the Web browser.
https://(IP address of login destination AE-200/EW-50)/control/index.html

Note: Use Initial Setting Tool to configure the settings of the login destination AE-200/EW-50. Refer to the Instruction Book (Initial Settings) for details.

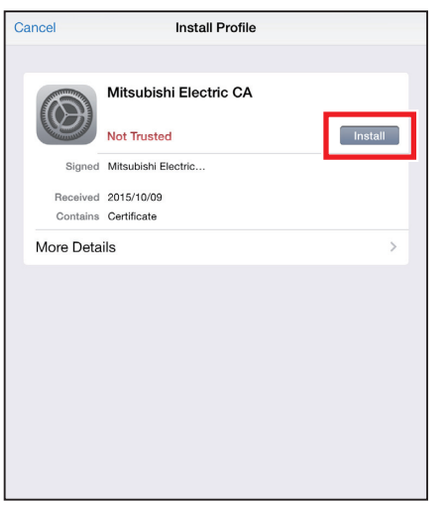
1-2. When using an iOS device (Safari)

(1) Start Safari and then enter the following webpage address in the address bar.
Enter http:///(IP address of AE-200, AE-50, or EW-50)/cacert.cer and then touch the [Go] button.

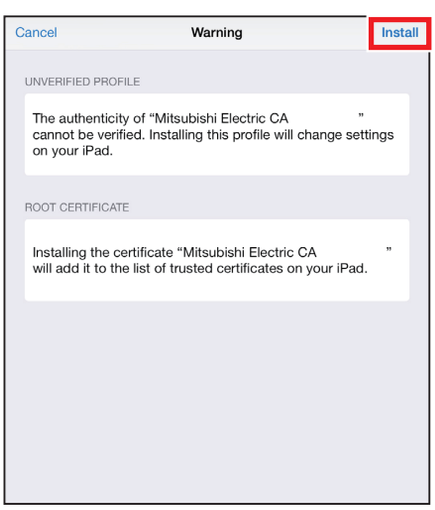
Example: http://192.168.1.1/cacert.cer



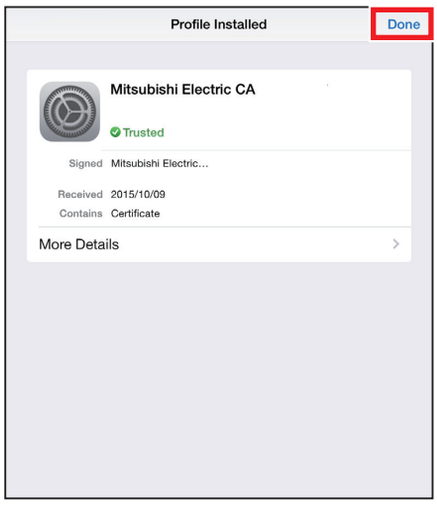
(2) When the Install Profile screen pops up, touch the [Install] button.



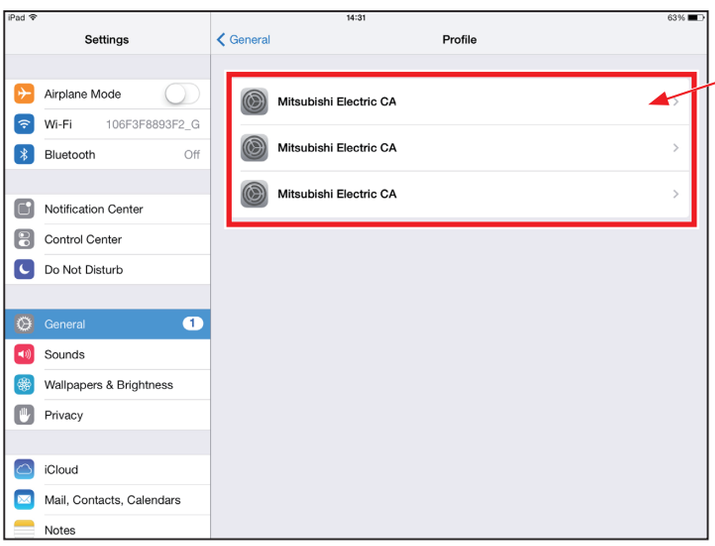
(3) When the Warning screen pops up, touch the [Install] button.



(4) When the Profile Installed screen pops up, touch the [Done] button.



(5) Open [Settings] > [General] > [Profile], and check the registered certificates.



Registered certificates
Check that all certificates for the centralized controllers to be controlled by Integrated Centralized Control Web are installed.

(6) Log in from Integrated Centralized Control Web.

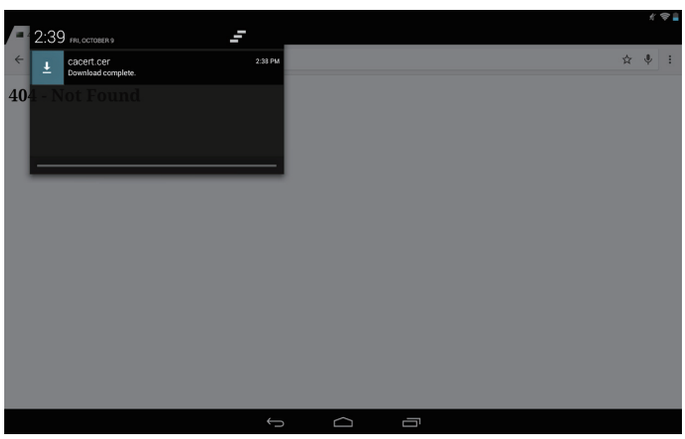
Enter the following webpage address in the address bar of the Web browser.
Tablet: https://(IP address of AE-200/EW-50)/control/index.html
Smartphone: https://(IP address of AE-200/EW-50)/mobile/index.html

1-3. When using an Android device (Chrome)

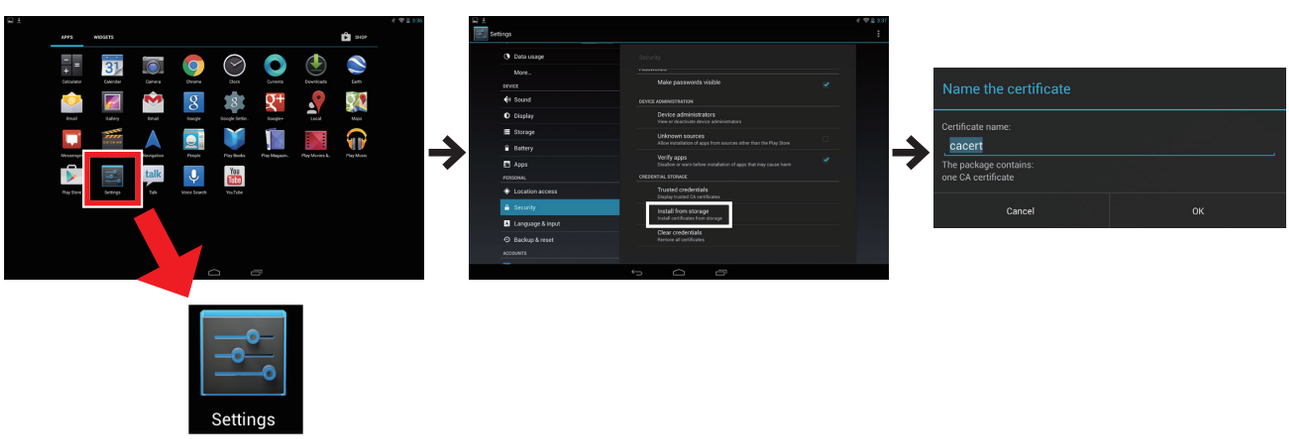
(1) Start Chrome and then enter the following webpage address in the address bar.
Enter http:///(IP address of AE-200, AE-50, or EW-50)/cacert.cer and then touch the [Go] button.



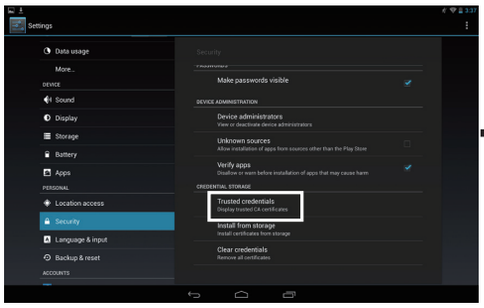
(2) The certificate is downloaded to the device. Swipe at the top of the display of the device to display the notification menu and check that the file “cacert.cer” has been downloaded.

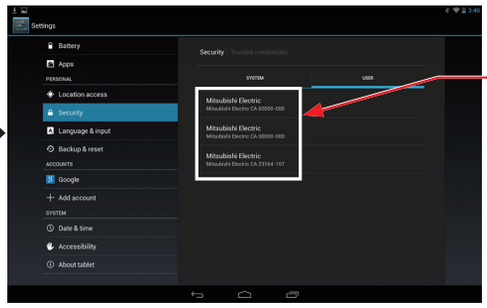


(3) Open [Settings] > [PERSONAL] > [Security], touch [Install from storage], and touch [OK] to register the downloaded file “cacert.cer”.



(4) Open [Settings] > [PERSONAL] > [Security], click [Trusted credentials], and check the registered certificates.





Registered certificates
Check that all certificates for the centralized controllers to be controlled by Integrated Centralized Control Web are installed.

(5) Log in from Integrated Centralized Control Web.

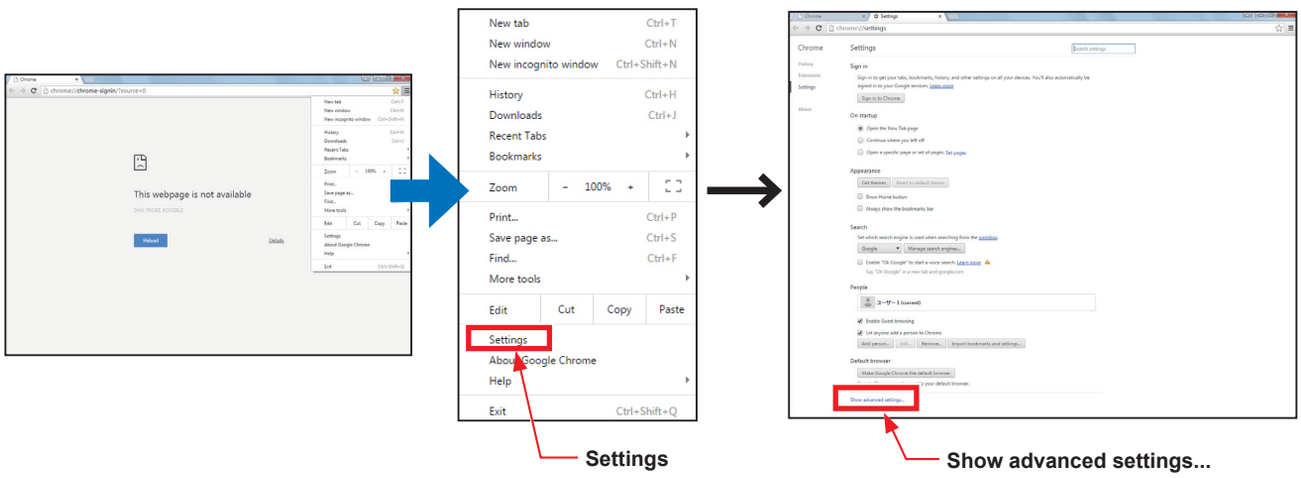
Enter the following webpage address in the address bar of the Web browser.
Tablet: https:///(IP address of AE-200/EW-50)/control/index.html
Smartphone: https:///(IP address of AE-200/EW-50)/mobile/index.html

2. When the layout is broken

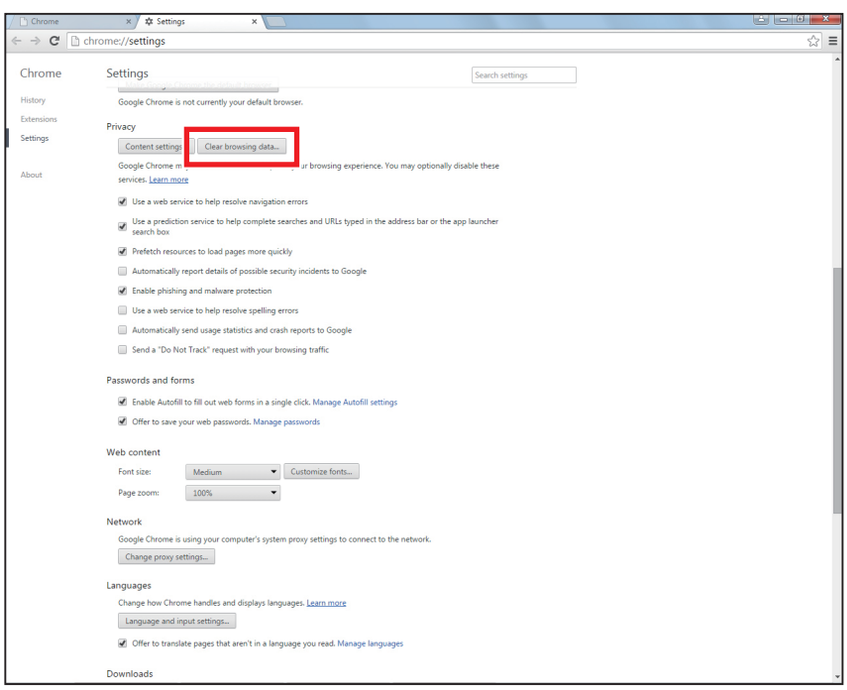
When the software version of the centralized controllers connected to Integrated Centralized Control Web is updated or the settings are changed using Initial Setting Tool, the layout of Integrated Centralized Control Web may break and its operation buttons may no longer work.
If that happens, use the following procedure to clear the history data of the browser.

2-1. When using a Windows PC (Chrome)

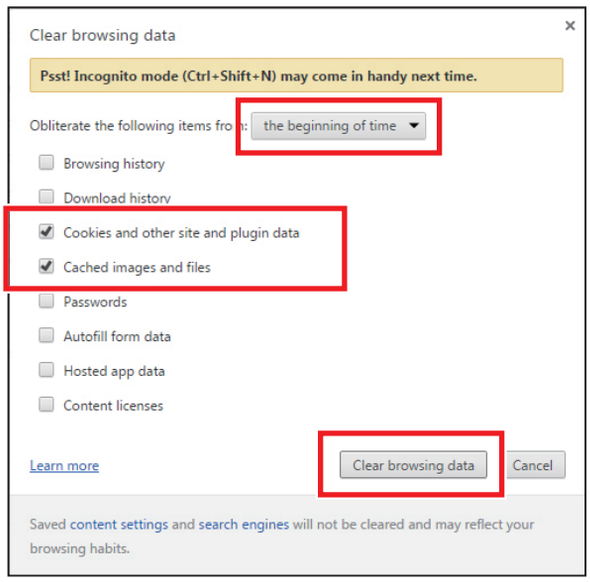
(1) Open the settings of Chrome and then click [Show advanced settings...].



(2) Click [Clear browsing data...] under [Privacy] in the advanced settings.



(3) Select “the beginning of time”, check the checkboxes next to “Cookies and other site and plugin data” and “Cashed images and files”, and click “Clear browsing data”.



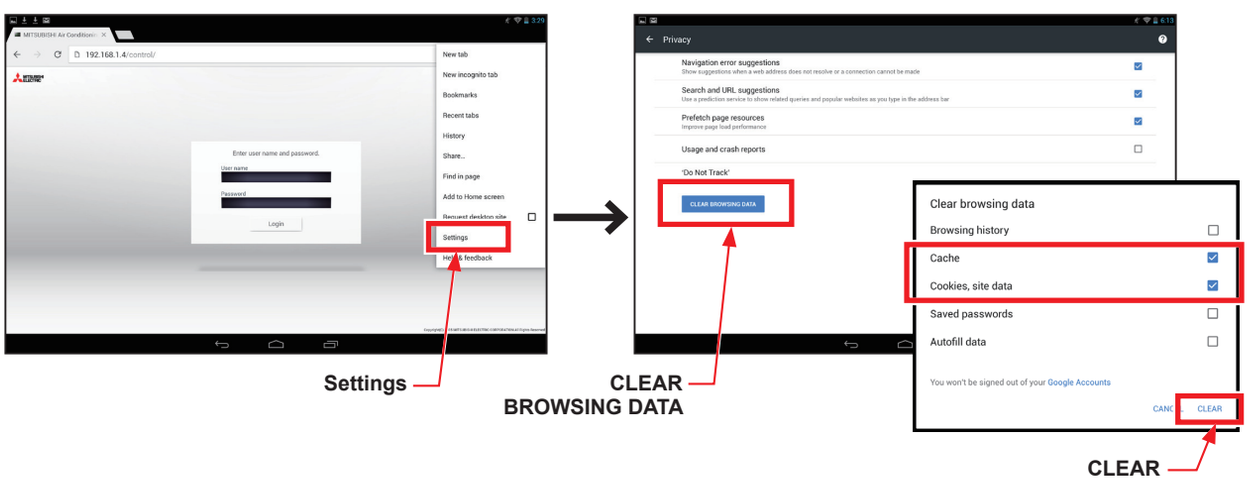
2-2. When using an iOS device (Safari)

(1) Open the settings and then touch [Safari] to open the Safari settings.
Touch [Clear Cookies and Data] to clear the browser cache.



2-3. When using an Android device (Chrome)

(1) Open [Settings] of Chrome and then open the [Privacy] settings.
Touch [CLEAR BROWSING DATA]. In the Clear browsing data screen, check the checkboxes next to “Cache” and “Cookies, site data,” and then touch [CLEAR] to clear the history data of the browser.



3. Login screen does not open

3-1. Checking the login destination IP address

If the login screen of Integrated Centralized Control Web does not open, check the following setting using Initial Setting Tool.

Note: To use Integrated Centralized Control Web, you need to configure the settings using Initial Setting Tool.

Important

- Check that the IP address of the AE-200/EW-50 that is the login destination for Integrated Centralized Control Web is correct.

(1) Click [Basic Settings] > [System Configuration] in Initial Setting Tool to open the System Configuration settings screen.

(2) Enter the IP addresses of all the centralized controllers that are control targets of Integrated Centralized Control Web and then click [Save].

(3) Click [Acquire data] from the [Data acquisition] menu to acquire the information on the air conditioning cooling and heating integrated centralized control system.

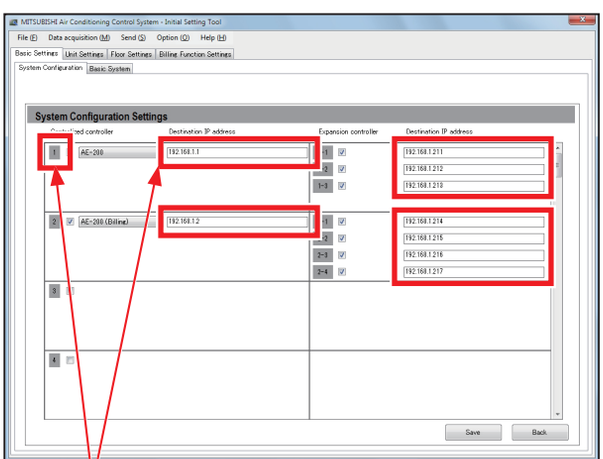
(4) Click [Floor Settings] > [Floor for Integrated Centralized Control Web] to open the Floor for Integrated Centralized Control Web settings.

(5) Check the number of the centralized controller displayed in “Target centralized controller.”

(6) In the System Configuration screen, check the IP address of the centralized controller set for the checked number of “Target centralized controller.”

(7) Check that it matches the login destination IP address displayed as the URL of the browser.

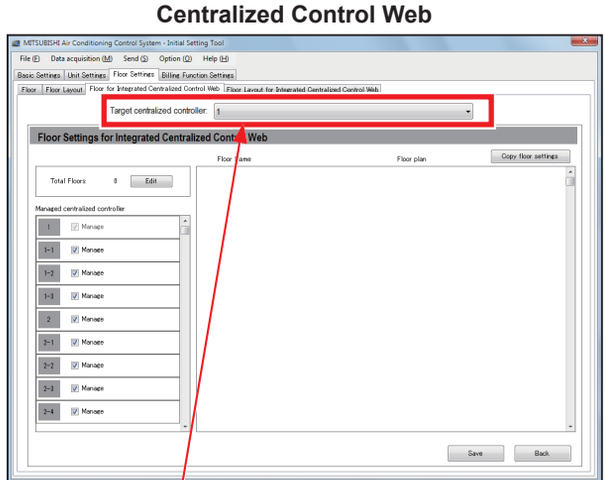
System Configuration settings



③ Check the destination IP address for the AE-200 of the number checked in ② . (In this figure, 192.168.1.1 is the destination IP address.)

① Acquire data

Floor settings for Integrated Centralized Control Web

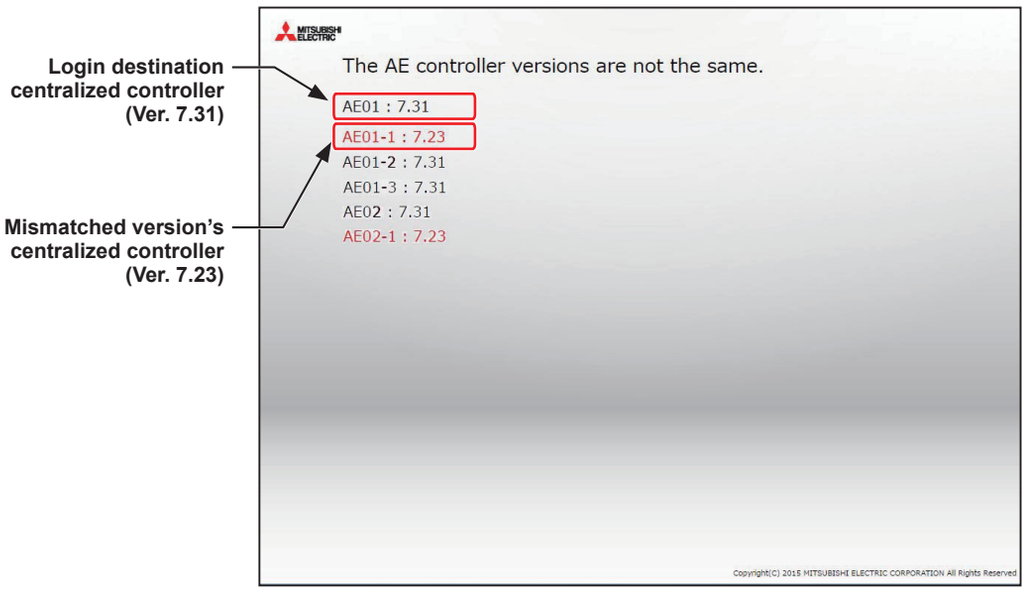


② Check the number of the centralized controller displayed in "Target centralized controller". (In this figure, 1 is the number.)

3-2. Mismatched software versions

The software versions of the AE-200/AE-50/EW-50 managed by the Integrated Centralized Control Web must all be the same. Contact your dealer or a manufacturer-specified service company.

Note: If these are different, a screen indicating that the software versions are different will first be displayed, and log in will not be possible.



3-3. When the settings for the Integrated Centralized Control Web have not been made

In AE-200/EW-50 software Ver. 7.3, if Integrated Centralized Control Web settings using Initial Setting Tool is not performed, the login screen will be displayed in duplicate. Use the Initial Setting Tool to perform Integrated Centralized Control Web settings, and then connect.

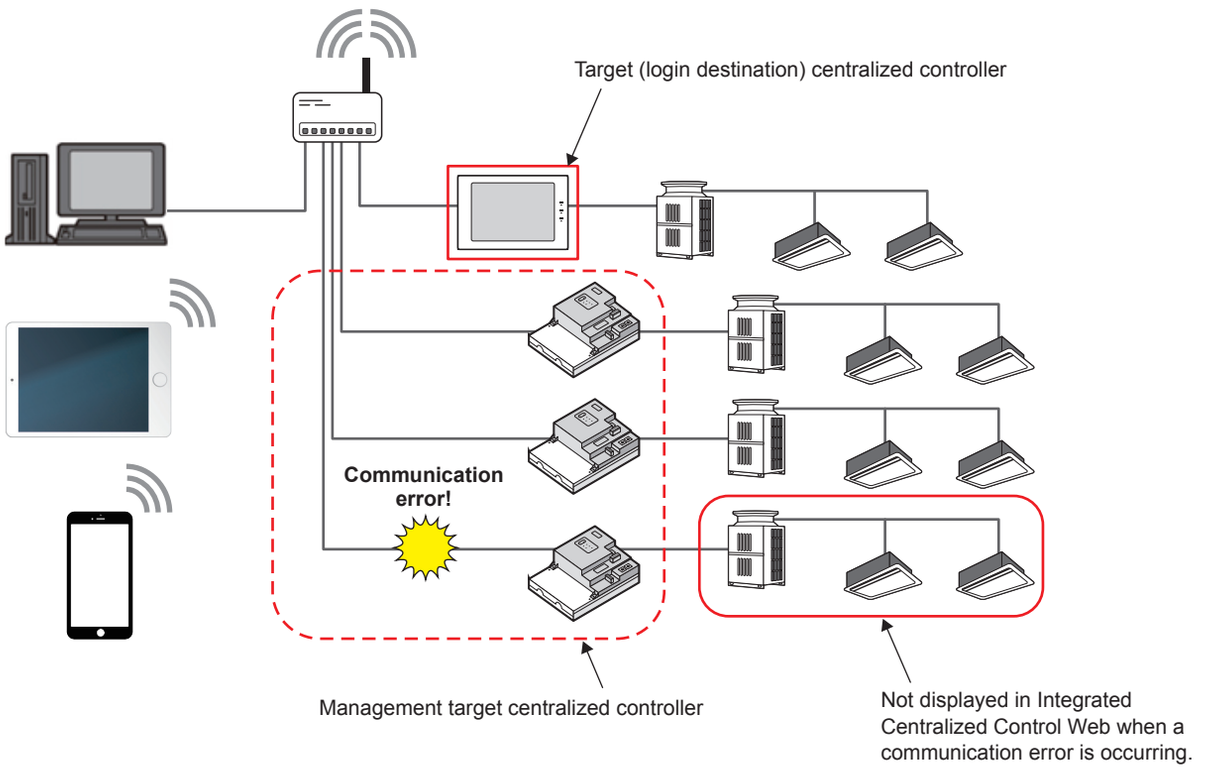
Note: The Integrated Centralized Control Web can be used from AE-200/AE-50/EW-50 software Ver. 7.3 and later.

Note: In AE-200/AE-50/EW-50 software Ver. 7.4 and later, even if Integrated Centralized Control Web settings using Initial Setting Tool is not performed, the login screen will be displayed, and login will be possible. In these cases, only the air conditioning unit groups that are managed by the AE-200/AE-50/EW-50 to which you are logged in can be monitored and operated.

4. Air conditioning units that can be monitored and operated are not displayed

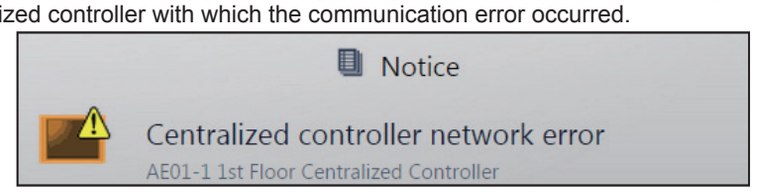
4-1. Communication error occurred

If an error occurs in communication with a centralized controller that is a control target of Integrated Centralized Control Web, the air conditioning units connected to the centralized controller with which the communication error occurred are not displayed in Integrated Centralized Control Web.



Important

- The centralized controller error will be displayed under [Notice] when you log in as an building manager. Check the connection of the centralized controller with which the communication error occurred.



Note: While a communication error is occurring for a login destination centralized controller, you will not be able to use Integrated Centralized Control Web.

4-2. Integrated Centralized Control settings are not set correctly

Monitoring and operation using Integrated Centralized Control Web are not possible for a centralized controller whose integrated centralized control settings have not been configured using Initial Setting Tool.

Important

- Check that the centralized controllers that are control targets of Integrated Centralized Control Web are registered correctly using Initial Setting Tool. Refer to the Instruction Book (Initial Settings) for details.

(1) Click [Basic Settings] > [System Configuration] in Initial Setting Tool to open the System Configuration settings screen.

(2) Enter the IP addresses of all the centralized controllers that are control targets of Integrated Centralized Control Web and then click [Save].

(3) Click [Acquire data] from the [Data acquisition] menu to acquire the information on the air conditioning cooling and heating integrated centralized control system.

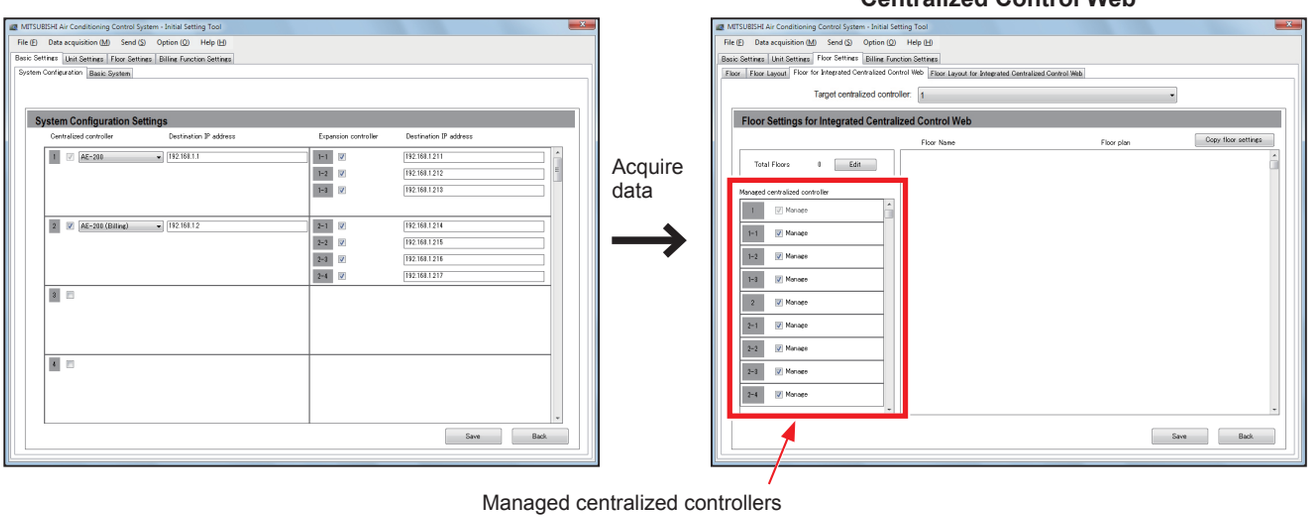
(4) Click [Floor Settings] > [Floor for Integrated Centralized Control Web] to open the Floor for Integrated Centralized Control Web settings.

(5) Check the centralized controllers displayed in “Managed centralized controller.”

* Any centralized controller without a check mark is not a control target of Integrated Centralized Control Web.

System Configuration settings

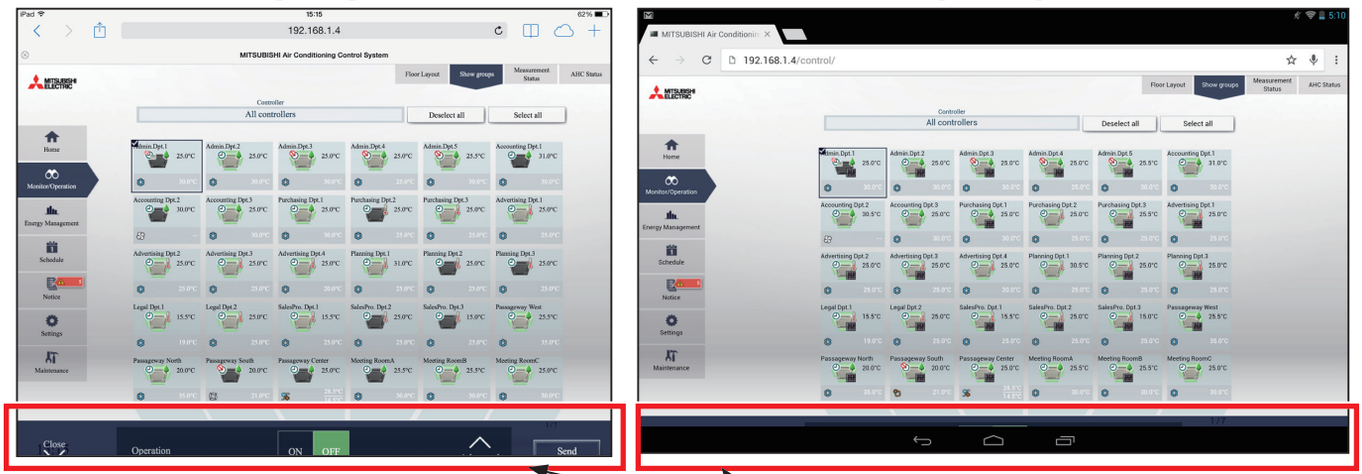
Floor settings for Integrated Centralized Control Web



5. Screen displayed with bottom part cut off on a tablet

If you log in to Integrated Centralized Control Web from a bookmark of the Safari or Chrome browser when using a tablet, the bottom part of the monitoring and operation screen may be cut off. If that happens, place a shortcut icon of Integrated Centralized Control Web on the Home screen and use Integrated Centralized Control Web by starting it with the shortcut icon.

[Safari] **[Chrome]**



Screen displayed with simple operation taskbar cut off

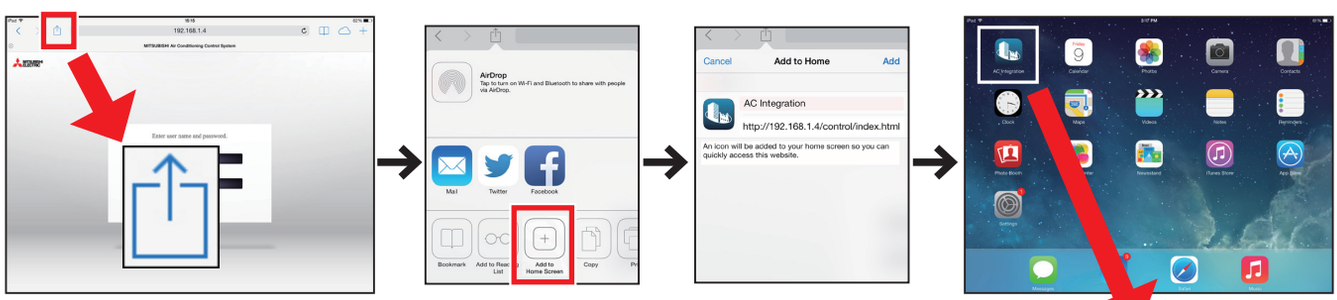
<When iOS is used>

(1) Start Safari and connect to Integrated Centralized Control Web.

(2) Touch the [Action] icon.

(3) Touch [Add to Home Screen] to add a shortcut icon to the Home screen.

(4) Start Integrated Centralized Control Web from the shortcut icon.



Shortcut icon

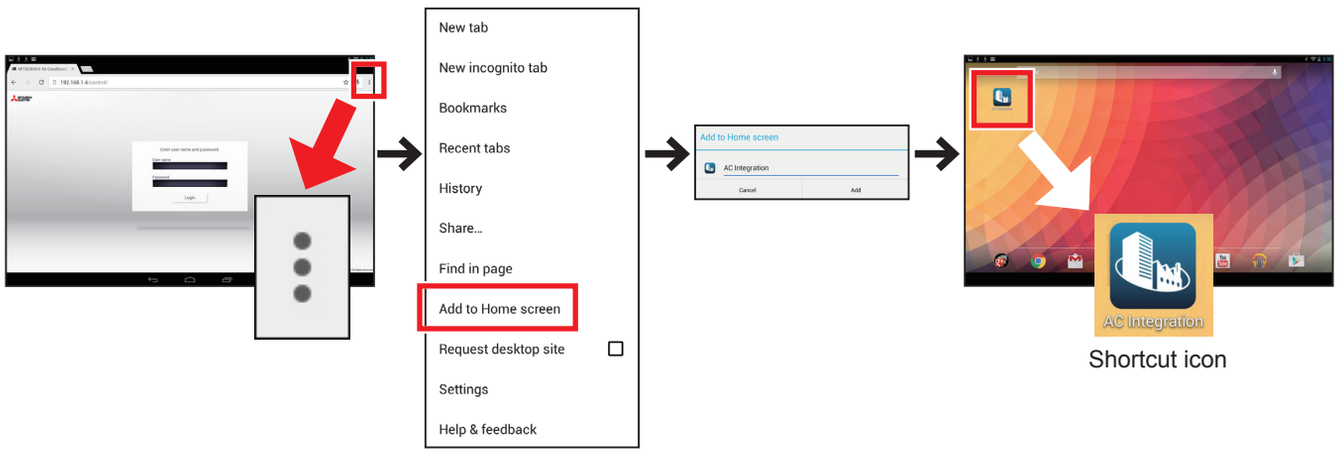
<When Android is used>

(1) Start Chrome and connect to Integrated Centralized Control Web.

(2) Touch [Settings].

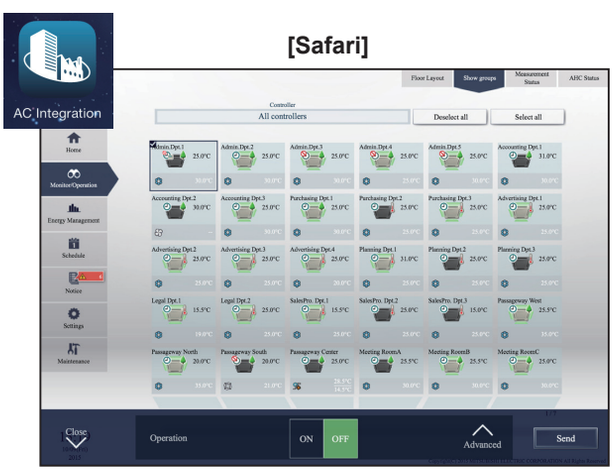
(3) Touch [Add to Home Screen] to add a shortcut icon to the Home screen.

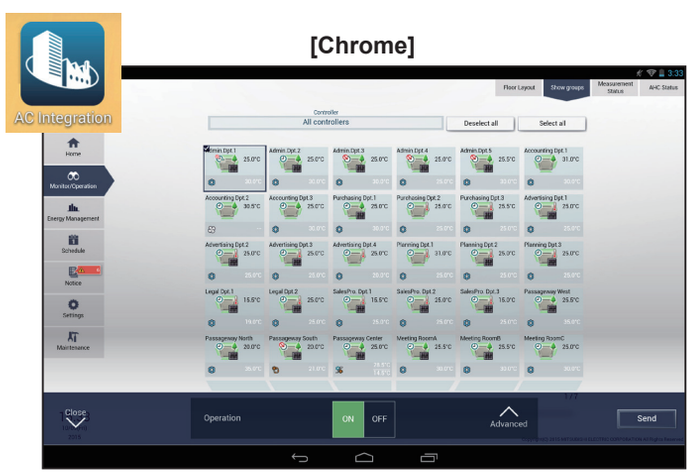
(4) Start Integrated Centralized Control Web from the shortcut icon.



Shortcut icon

(5) Start Integrated Centralized Control Web from the shortcut icon.





Appendix: Added functions

The table below summarizes the newly added functions.

Version	Menu item	Added function	Reference
Ver. 7.45	Monitor/Operation	The temperature to be displayed on the Floor Layout screen can be switched between room temperature and set temperature. The setting can be switched in the initial settings.	Section 2-1 “Monitoring/ Operation” in Chapter 2

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

The product at hand is based on the following EU regulations:

- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility Directive 2014/30/EU
- Restriction of Hazardous Substances 2011/65/EU

Please be sure to put the contact address/telephone number on this manual before handing it to the customer.

MITSUBISHI ELECTRIC CORPORATION

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