

# Instruction Book

## –Web Browser for System Maintenance Engineer–

### Contents

1. Introduction.....	2
1-1. Terms Used in This Manual .....	2
1-2. PC Requirements.....	2
2. Setting the Operating Environment .....	3
2-1. Setting the IP Address of the PC .....	3
2-2. Setting the Web Browser .....	5
3. Logging in to the Web Browser for System Maintenance Engineer .....	8
4. Monitor/Operation.....	11
4-1. Condition List .....	11
4-2. Measurement List .....	19
4-3. Malfunction List.....	20
4-4. Filter Sign List.....	22
4-5. AHC List.....	23
5. Energy Management .....	25
5-1. Energy Use Status .....	25
5-2. Ranking.....	31
5-3. Target Value Setting.....	34
5-4. Peakcut Control Status .....	36
6. Schedule Settings.....	38
6-1. Weekly Schedule .....	40
6-2. Annual Schedule.....	45
6-3. Today's Schedule.....	48
7. Malfunction Log .....	50
7-1. Unit Error/Communication Error.....	50
8. System Settings.....	51
8-1. Date/Time Settings .....	51
8-2. User Registration .....	52
9. Maintenance .....	53
9-1. Send Mail Log .....	53
9-2. Gas Amount Check.....	54
9-3. Outdoor unit status.....	55
9-4. Free Contact List.....	56
9-5. CSV output.....	57
10. License registration for optional functions .....	68

# 1. Introduction

Mitsubishi Electric Corporation's Centralized Controller EB-50GU-A/EB-50GU-J features functions to allow users to monitor and operate the air conditioning units from a PC over the LAN.

This Instruction Book explains how to monitor and operate the units connected to the EB-50GU-A/EB-50GU-J using a Web browser.

For initial settings and function settings, refer to the Instruction Book (Web Browser for Initial Settings).

## 1-1. Terms Used in This Manual

- "Centralized Controller EB-50GU-A/EB-50GU-J" is referred to as "EB-50."
- "Booster unit" and "Water HEX unit" are referred to as "Air To Water (PWFY) unit."
- "Advanced HVAC CONTROLLER" is referred to as "AHC."
- Screen images used in this manual are from Windows 7® and Internet Explorer 9.0.

Note: Windows is a registered trademark or trademark of Microsoft Corporation in the United States and other countries.

## 1-2. PC Requirements

Table1-1 PC Requirements

Item	Requirement
CPU	1 GHz or faster
Memory	512 MB or more
Screen resolution	1024 x 768 or higher recommended
Browser	Microsoft® Internet Explorer 8.0 Microsoft® Internet Explorer 9.0 * Java execution environment is required. (Oracle® Java Plug-in Ver. 1.7.0_11) * Install Oracle® Java Plug-in that is appropriate for your operating system. When using a 64-bit Internet Explorer, install a 64-bit Java Plug-in. * The version of the Oracle® Java Plug-in can be verified by clicking [Java] in the Control Panel.
On-board LAN port or LAN card	100 BASE-TX
Pointing device	e.g., mouse

Note: Microsoft is a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.  
Oracle and Java are trademarks or registered trademarks of Oracle Inc. in the United States and/or other countries.

## 2. Setting the Operating Environment

This chapter explains how to make PC settings and Web browser settings to monitor and operate the air conditioning units.

### 2-1. Setting the IP Address of the PC

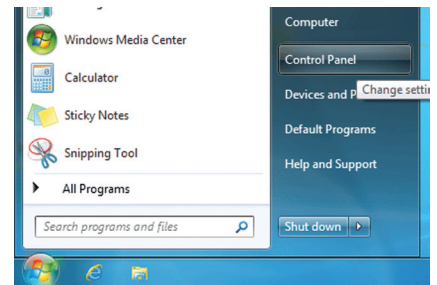
Follow the instructions below to set the PC's IP address for the Web browser to recognize the EB-50 unit. The PC's IP address must have the same network address as the EB-50's IP address.

(i.e., EB-50's IP address: [192.168.1.1], PC's IP address: [192.168.1.101])

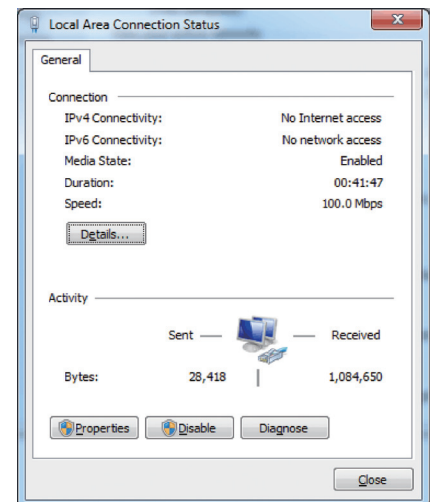
When connecting an EB-50 to an existing LAN, consult the system administrator to decide the IP address of the PC.

Note: When using an EB-50-dedicated LAN, it is recommended that the main EB-50 unit be assigned an IP address between the range [192.168.1.1] and [192.168.1.40] and that the PC connected to the EB-50 be assigned an IP address between the range [192.168.1.101] and [192.168.1.150].

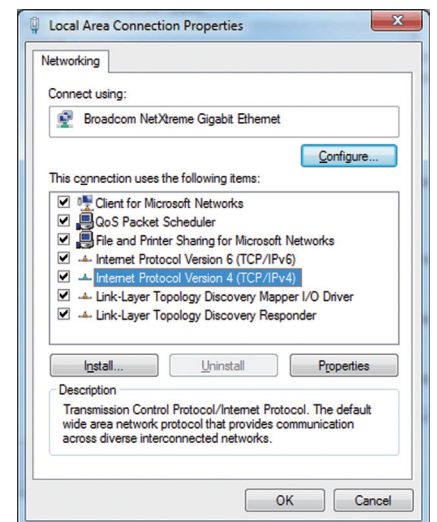
(1) Click [Control Panel] in the Start menu.



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



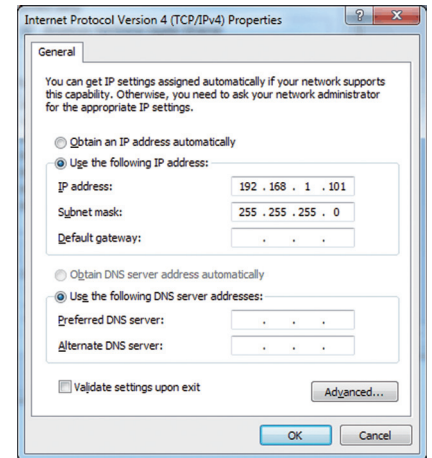
(3) Click [Internet Protocol Version 4 (TCP/IPv4)] to select it, and click [Properties].



- (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.

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





## 2-2. Setting the Web Browser

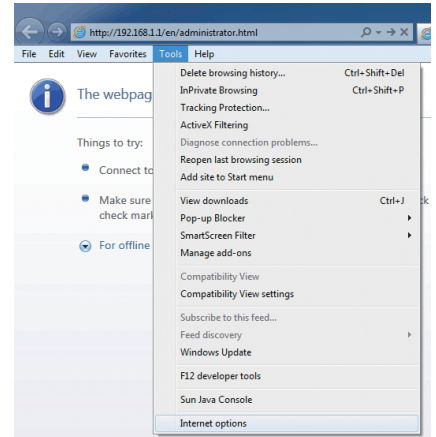
Web browser setting varies with the Internet connection type. See the sections below for how to make Web browser settings for different types of Internet connection.

**To prevent unauthorized access, always use a security device such as a VPN router when connecting the EB-50 to the Internet.**

### 2-2-1. No Internet connection

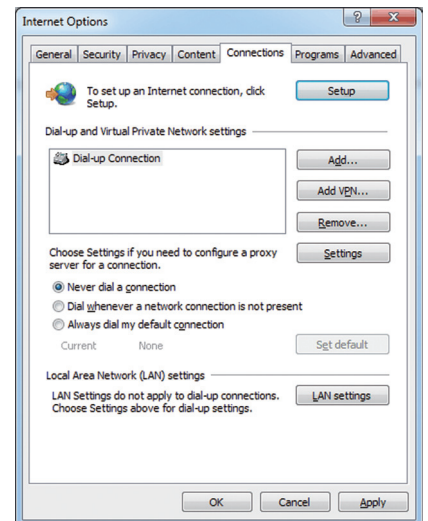
To monitor and operate the air conditioning units from a PC with no Internet connection, follow the instructions below to set the environment for the Web browser.

(1) Click [Tools] in the menu bar, then click [Internet options].



(2) In the [Internet Options] window, click the [Connections] tab.

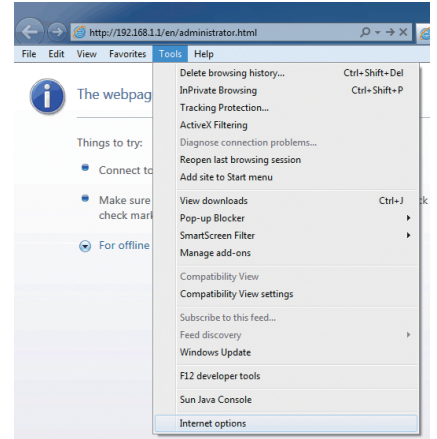
(3) Check the radio button next to [Never dial a connection] in the middle of the window, and click [OK] to close the window.



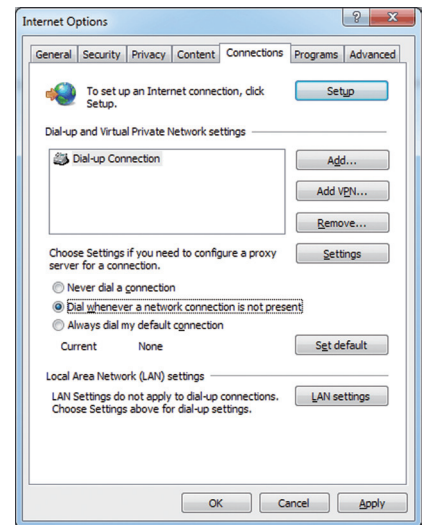
### 2-2-2. Dial-up Internet connection

To monitor and operate the air conditioning units from a PC that connects to the Internet through a dial-up connection, follow the instructions below to set the environment for the Web browser.

(1) Click [Tools] in the menu bar, then click [Internet options].



(2) In the [Internet Options] window, click the [Connections] tab.



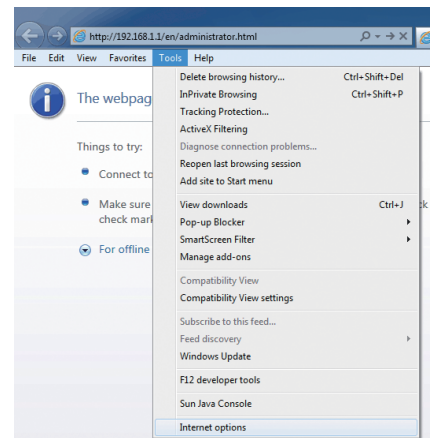
(3) Check the radio button next to [Dial whenever a network connection is not present] in the middle of the window, and click [OK] to close the window.

By making these settings, a message will appear asking whether or not to use a dial-up connection when an Internet connection is necessary. Follow the message to connect to the Internet.

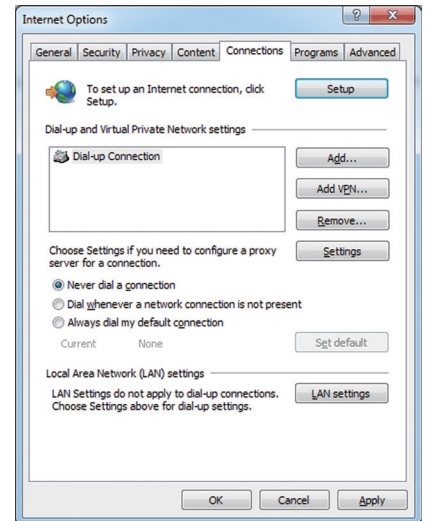
### 2-2-3. Connecting to the Internet via proxy server using an existing LAN

To monitor and operate the air conditioning units from a PC that connects to the Internet through a proxy server by connecting to an existing LAN, such as a LAN within your company, follow the instructions below to set the environment for the Web browser.

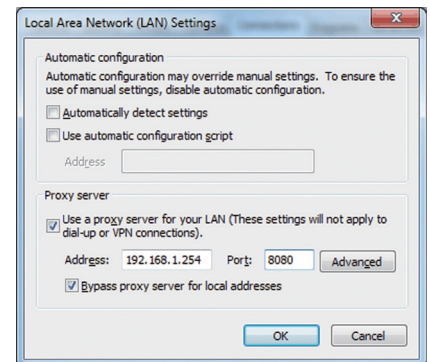
(1) Click [Tools] in the menu bar, then click [Internet options].



- (2) In the [Internet Options] window, click the [Connections] tab.
- (3) Check the radio button next to [Never dial a connection] in the middle of the window.
- (4) Click [LAN settings] under [Local Area Network (LAN) settings].

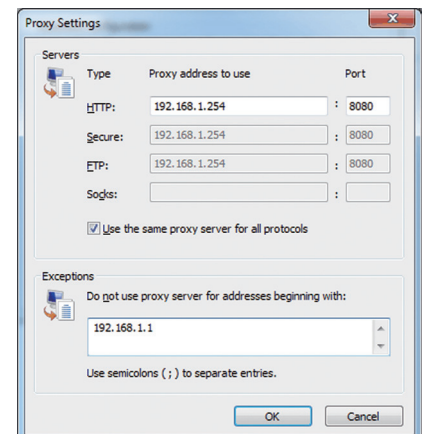


- (5) In the [Local Area Network (LAN) Settings] window, check [Bypass proxy server for local addresses], and click [Advanced].



- (6) In the [Proxy Settings] window, enter the EB-50's IP address (e.g., 192.168.1.1) in the [Exceptions] field. Then, keep clicking [OK] or [Close] to close all windows.

If connecting multiple EB-50 units, enter the addresses of all EB-50 units (e.g., [192.168.1.1; 192.168.1.2]). It is also possible to use an asterisk as a wildcard (e.g., [192.168.1.\*]).



# 3. Logging in to the Web Browser for System Maintenance Engineer

(1) Enter the web page address in the address field of the Web browser as follows:

**http://[IP address of the EB-50]/administrator.html**

Press the [Enter] key. A login screen will appear.

Note: If the IP address of the EB-50 is [192.168.1.1], the web page address is [http://192.168.1.1/administrator.html].

Note: Default IP address of EB-50 is [192.168.1.1].

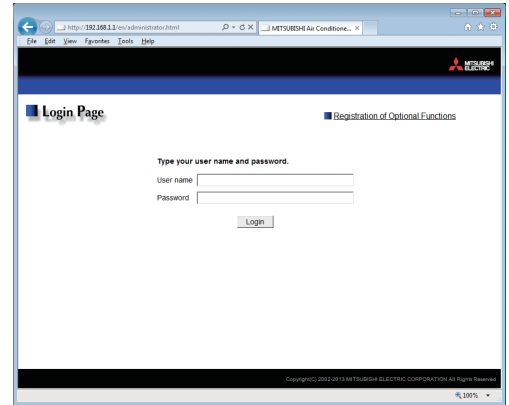
Note: If the login screen does not appear then take the steps below to delete the temporary files.

<Internet Explorer>

1. Click [Tools] in the menu bar, then click [Internet options].
2. On the [General] tab, click [Delete] in the middle of the window.
3. In the [Delete Browsing History] window, click [Delete].

<Java>

1. Click [Control Panel] from the Start menu.
2. Click the [Java] icon to launch the Java Control Panel.
3. On the [General] tab, click [Settings] in the [Temporary Internet Files] section.
4. Click [Delete Files].
5. In the [Delete Files and Applications] window, click [OK].



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 the EB-50]/zh/administrator.html
English	http://[IP address of the EB-50]/en/administrator.html
French	http://[IP address of the EB-50]/fr/administrator.html
German	http://[IP address of the EB-50]/de/administrator.html
Italian	http://[IP address of the EB-50]/it/administrator.html
Japanese	http://[IP address of the EB-50]/ja/administrator.html
Portuguese	http://[IP address of the EB-50]/pt/administrator.html
Russian	http://[IP address of the EB-50]/ru/administrator.html
Spanish	http://[IP address of the EB-50]/es/administrator.html

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

- (2) Enter the user name and the password in the login screen, and click [Login]. A screen for monitoring the operation conditions will appear.  
 The table below shows the web page addresses for building managers and general users, their respective default user names and passwords, and their accessible functions.

User	Web page address	Default user name	Default password	Available functions	
Building manager	http://[IP address of the EB-50]/administrator.html	administrator	admin	Monitor/ Operation	Condition List Measurement List Malfunction List Filter Sign List AHC List
				Energy Management	Energy Use Status Ranking Target Value Setting Peakcut Control Status
				Schedule Settings	Today's Schedule Weekly Schedule 1 Weekly Schedule 2 Weekly Schedule 3 Weekly Schedule 4 Weekly Schedule 5 Annual Schedule
				Malfunction Log	Unit Error Communication Error
				System Settings	Date/Time Settings User Registration
				Maintenance	Send Mail Log Gas Amount Check Outdoor unit status Free Contact List CSV output
General user	http://[IP address of the EB-50]/index.html	guest	guest	Monitor/ Operation	Condition List

Note: The license "Personal Web" is required to register up to 50 general users and to specify the accessible unit groups for each general user. Refer to section 8-2 "User Registration" for details.

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

# Encrypting the communication data and logging in to the Web browser (HTTPS connection)

EB-50 can encrypt communication data using HTTPS (SSL).

When connecting the EB-50 to the LAN that is accessible to the general public, it is recommended that the following settings be made so that the units are monitored and controlled on the encrypted web page.

Note: Depending on the operating system or the Java version, HTTPS encrypted communication may not be enabled properly. If this happens, use an HTTP connection as explained in the previous page.

- (1) Prefix the web address with [https], enter the rest of the address, and press the [Enter] key.

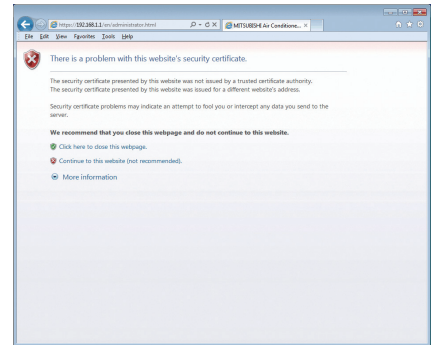
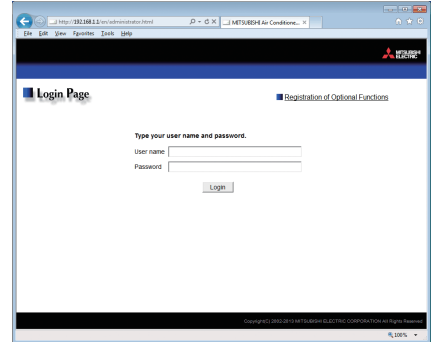
**https://[IP Address of the EB-50]/administrator.html**

Note: If the IP address of the EB-50 is [192.168.1.1], the web page address is [https://192.168.1.1/administrator.html].

The encrypted data communication will begin, and the Login screen will appear.

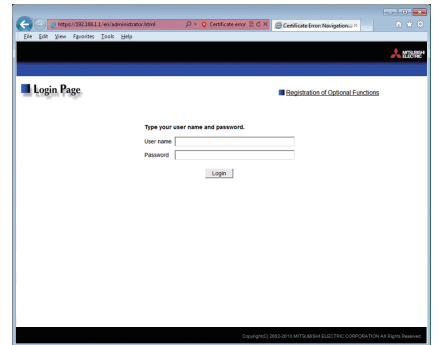
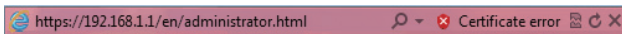
If a security certificate error page appears instead of the Login screen, go to step (2) below.

- (2) If the security certificate is invalid, a security certificate error page (as shown at right) will appear. Click [Continue to this website (not recommended)].



- (3) If the connection is successfully made, the Login screen will appear.

Note: Although the address bar will turn red and a message "Certificate error" will appear, you can still access the Web browser.



# 4. Monitor/Operation

This chapter explains how to monitor and operate the connected unit groups and to check the measurement data, malfunctioning units, units whose filter sign is triggered, and AHC status.

## 4-1. Condition List

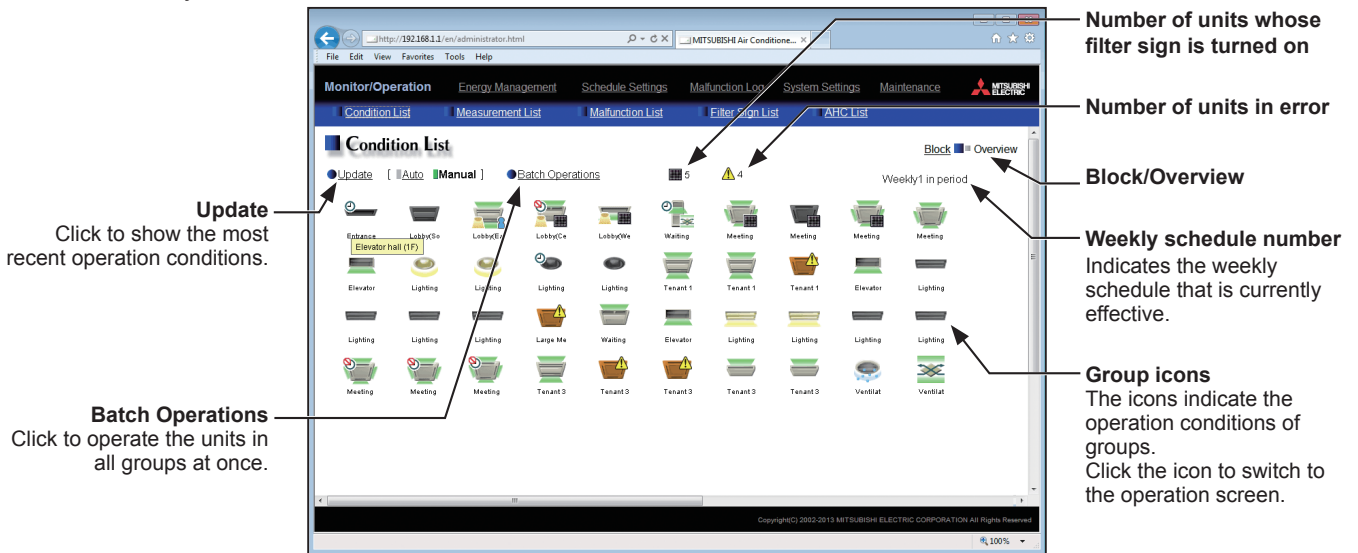
This section explains how to monitor the operation conditions of all groups collectively (see section 4-1-1) or groups per block (see section 4-1-2) and also explains how to operate each group (see section 4-1-3), groups per block (see section 4-1-4), or all groups collectively (see section 4-1-5).

After login, the Overview display of the Condition List screen will appear, which shows the operation conditions of all air conditioning unit groups, LOSSNAY unit (ventilator) groups, general equipment groups, and Air To Water (PWFY) unit groups.

To access the Condition List screen from the other screen, click [Monitor/Operation] in the menu bar, and then click [Condition List].

### 4-1-1. Checking the operation conditions of all groups












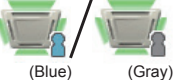
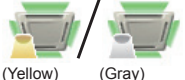











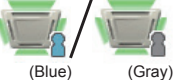
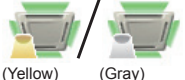











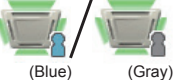
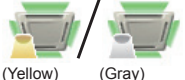
On the Overview display of the Condition List screen, the operation conditions of all groups can be monitored. The operator can also check the unit malfunctions on this screen and prevent the units from being left on unintentionally.









































































































Item	Description
Block/Overview	Click [Block] to display the operation conditions of groups per block, and click [Overview] to display the operation conditions of all groups.
Update	Click to show the most recent operation conditions. When [Auto] is selected, the operation conditions are updated automatically every minute.
Batch Operations	Click to operate the units in all groups at once. (See section 4-1-5.)
Number of units whose filter sign is turned on *1	The number of units under the control of EB-50 whose filter sign is currently turned on will appear. Clicking " [Grid Icon] " will bring up the Filter Sign List screen. (See section 4-4.) Note: This item will not appear if the [Filter Sign Display] is set to [OFF] on the Basic System settings screen, accessible via the Web Browser for Initial Settings.
Number of units in error *1	The number of units under the control of EB-50 that are currently in error will appear. Clicking " [Warning Icon] " will bring up the Malfunction List screen. (See section 4-3.)

\*1 The item will not appear if the number of units is "0."



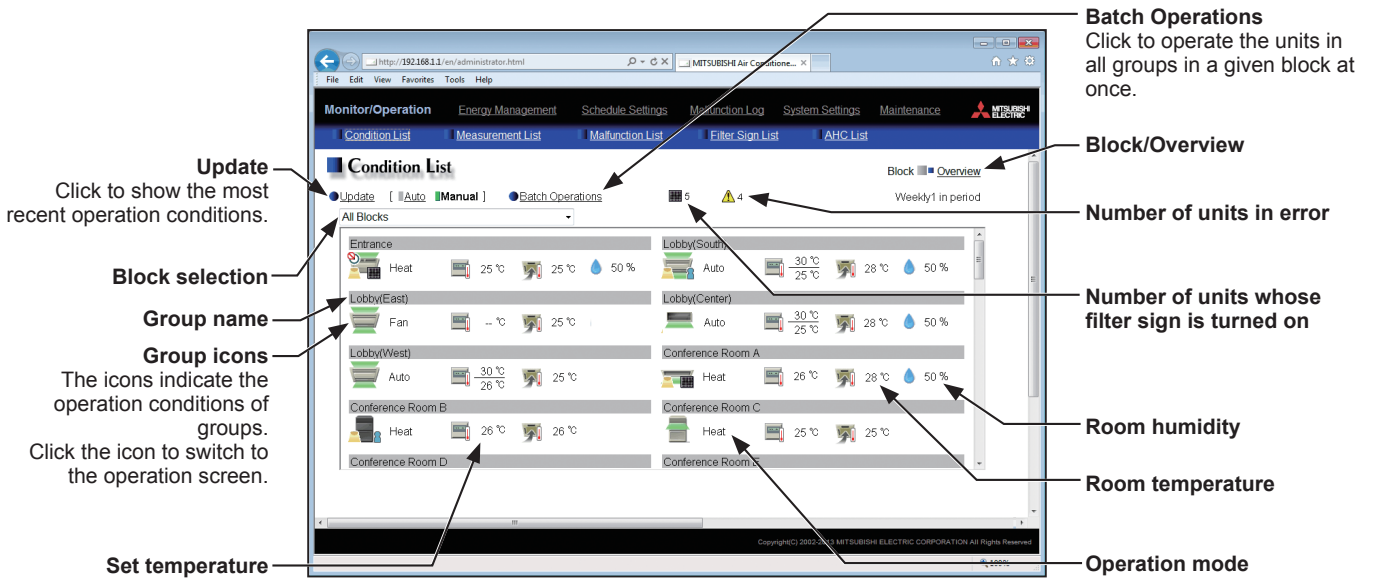
Item	Description													
<p>Group icons</p>	<p>Each group icon indicates the operation condition of the group. Move the cursor to the icon to display its group name. Clicking the icon will bring up the operation screen. The icons to indicate the operation conditions are shown below.</p> <p>(1) Air conditioning unit group</p> <table border="1" data-bbox="533 291 1445 432"> <tr> <td data-bbox="533 291 762 432">ON </td> <td data-bbox="762 291 991 432">OFF </td> <td data-bbox="991 291 1219 432">Error </td> <td data-bbox="1219 291 1445 432">Filter sign ON *1 </td> </tr> </table> <table border="1" data-bbox="533 448 1445 640"> <tr> <td data-bbox="533 448 762 640">Interlocked LOSSNAY ON *2 *8 </td> <td data-bbox="762 448 991 640">Interlocked LOSSNAY OFF *3 *8 </td> <td data-bbox="991 448 1219 640">Schedule set *4 </td> <td data-bbox="1219 448 1445 640">HOLD ON </td> </tr> </table> <table border="1" data-bbox="533 656 1445 819"> <tr> <td data-bbox="533 656 762 819">Energy-saving ON *5 </td> <td data-bbox="762 656 991 819">Setback ON *11 </td> <td data-bbox="991 656 1219 819">Starting up </td> <td data-bbox="1219 656 1445 819">Occupied/Vacant *6*7*8 </td> </tr> </table> <table border="1" data-bbox="533 835 762 999"> <tr> <td data-bbox="533 835 762 999">Bright/Dark *9*10*11 </td> </tr> </table> <p>Note: Besides the 4-way airflow unit icons, 2-way airflow or ceiling-suspended unit icons are also available. Icons can be selected on the group settings screen, accessible via the Web Browser for Initial Settings.</p> <p>*1 Whether or not to display the filter sign can be set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>*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)</p> <p>*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.</p> <p>*4 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, accessible via the Web Browser for Initial Settings), the "Schedule set" icon will appear, but the scheduled operations will not be performed.</p> <p>*5 The "Energy-saving ON" icon will appear while the Peak Cut control is performed on the group or on the outdoor unit that is connected to the group.</p> <p>*6 The Occupancy/Vacancy status icon will appear only when [Show occupancy icon], [Show vacancy icon], or [Show both icons] is selected in the [Occupancy sensor display] section under the [Display Format] section of the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>*7 The Occupancy/Vacancy status icon will not appear if the remote controller in the group does not have an occupancy sensor.</p> <p>*8 The Occupancy/Vacancy status icon takes priority over the "Interlocked LOSSNAY ON" or "Interlocked LOSSNAY OFF" icon.</p> <p>*9 The Brightness/Darkness status icon will appear only when [Show bright symbol], [Show dark symbol], or [Show both symbols] is selected in the [Brightness sensor display] section under the [Display Format] section of the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>*10 The Brightness/Darkness status icon will not appear if the remote controller in the group does not have a brightness sensor.</p> <p>*11 The "Setback ON" icon takes priority over the Brightness/Darkness status icon.</p>	ON 	OFF 	Error 	Filter sign ON *1 	Interlocked LOSSNAY ON *2 *8 	Interlocked LOSSNAY OFF *3 *8 	Schedule set *4 	HOLD ON 	Energy-saving ON *5 	Setback ON *11 	Starting up 	Occupied/Vacant *6*7*8 	Bright/Dark *9*10*11 
	ON 	OFF 	Error 	Filter sign ON *1 										
	Interlocked LOSSNAY ON *2 *8 	Interlocked LOSSNAY OFF *3 *8 	Schedule set *4 	HOLD ON 										
	Energy-saving ON *5 	Setback ON *11 	Starting up 	Occupied/Vacant *6*7*8 										
	Bright/Dark *9*10*11 													





Item	Description																												
Group icons	<p>(2) LOSSNAY unit (ventilator) group</p> <table border="1" data-bbox="533 197 1444 336"> <tr> <td>ON</td> <td>OFF</td> <td>Error</td> <td>Filter sign ON *1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <table border="1" data-bbox="533 353 1217 517"> <tr> <td>Schedule set</td> <td>HOLD ON</td> <td>Energy-saving ON *2</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> <p>*1 Whether or not to display the filter sign can be set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>*2 The "Energy-saving ON" icon will appear while the Peak Cut control is performed on the LOSSNAY unit group.</p>	ON	OFF	Error	Filter sign ON *1					Schedule set	HOLD ON	Energy-saving ON *2																	
	ON	OFF	Error	Filter sign ON *1																									
																													
	Schedule set	HOLD ON	Energy-saving ON *2																										
																													
<p>(3) Air To Water (PWFY) unit group</p> <table border="1" data-bbox="533 674 1444 813"> <tr> <td>ON</td> <td>OFF</td> <td>Error</td> <td>Schedule set</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <table border="1" data-bbox="533 831 987 994"> <tr> <td>HOLD ON</td> <td>Energy-saving ON *1</td> </tr> <tr> <td></td> <td></td> </tr> </table> <p>*1 The "Energy-saving ON" icon will appear while the Peak Cut control is performed on the Air To Water (PWFY) unit group.</p>	ON	OFF	Error	Schedule set					HOLD ON	Energy-saving ON *1																			
ON	OFF	Error	Schedule set																										
																													
HOLD ON	Energy-saving ON *1																												
																													
<p>(4) General equipment group</p> <table border="1" data-bbox="533 1099 1444 1238"> <tr> <td>ON</td> <td>OFF</td> <td>Error</td> <td>Schedule set</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <table border="1" data-bbox="533 1256 762 1395"> <tr> <td>HOLD ON</td> </tr> <tr> <td></td> </tr> </table> <p>Note: Besides the lighting icons, pump or card key icons are also available. The icon can be selected on the group settings screen, accessible via the Web Browser for Initial Settings.</p>	ON	OFF	Error	Schedule set					HOLD ON																				
ON	OFF	Error	Schedule set																										
																													
HOLD ON																													
																													
Group name	<p>Only the first 8 characters will be visible under the icons. To display all characters, move the cursor to the icon.</p> <p>Note: Whether or not to display the group names can be set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <div data-bbox="501 1592 959 1872" style="border: 1px solid black; padding: 5px;"> <p><b>Condition List</b></p> <p>● Update [ Auto Manual ] ● Batch Operatio</p> <table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Entrance</td> <td>Lobby (S)</td> <td>Lobby (E)</td> <td>Lobby (C)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Elevator</td> <td>Lighting</td> <td>Lighting</td> <td>Lighting</td> </tr> </table> <p>Icons with group names</p> </div> <div data-bbox="979 1592 1437 1872" style="border: 1px solid black; padding: 5px;"> <p><b>Condition List</b></p> <p>● Update [ Auto Manual ] ● Batch Operatio</p> <table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4">Elevator hall (1F)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>Icons without group names</p> </div>					Entrance	Lobby (S)	Lobby (E)	Lobby (C)					Elevator	Lighting	Lighting	Lighting					Elevator hall (1F)							
																													
Entrance	Lobby (S)	Lobby (E)	Lobby (C)																										
																													
Elevator	Lighting	Lighting	Lighting																										
																													
Elevator hall (1F)																													
																													

## 4-1-2. Checking the operation conditions of the groups in a given block

In the Block display of the Condition List screen, select a block to display the operation conditions (such as operation mode, set temperature, and room temperature) of the air conditioning unit groups, LOSSNAY unit (ventilator) groups, Air To Water (PWFY) unit groups, and general equipment groups in the block.



Item	Description
Block/Overview	Click [Block] to display the operation conditions of groups per block, and click [Overview] to display the operation conditions of all groups.
Update	Click to show the most recent operation conditions. When [Auto] is selected, the operation conditions are updated automatically every minute.
Batch Operations	Click to operate the units in all groups in a given block at once. (See section 4-1-4.)
Block selection	Select a block you want to monitor.
Group icons	Each group icon indicates the operation condition of the group. Clicking the icon will bring up the operation screen.
Group name	The name of the group will appear.
Operation mode	The operation mode of the group will appear.
Set temperature	The set temperature of the group will appear. Note: For Air To Water (PWFY) unit groups, the set water temperature will appear. Note: The temperature unit (°C or °F) can be selected on the Basic System settings screen, accessible via the Web Browser for Initial Settings.
Room temperature	Indoor unit return air temperature will appear. Note: The temperature shown may be different from the actual room temperature. Note: Whether to show or hide the room temperature can be set on the Basic System settings screen, accessible via the Web Browser for Initial Settings. Note: For Air To Water (PWFY) unit groups, the current water temperature will appear. Note: The temperature unit (°C or °F) can be selected on the Basic System settings screen, accessible via the Web Browser for Initial Settings.
Room humidity	The reading of the indoor unit return air humidity or the humidity sensor on the ME remote controller (Smart ME controller) will appear. Note: The value will not appear if the indoor unit does not have a humidity measurement function. Note: If a ME remote controller (Smart ME controller) is connected to the group and the built-in humidity sensor is enabled, the reading of the sensor will appear. Note: The indoor unit return air humidity has priority to be displayed over the reading of the humidity sensor on the ME remote controller (Smart ME controller).

Item	Description
Number of units whose filter sign is turned on *1	<p>The number of units under the control of EB-50 whose filter sign is currently turned on will appear. Clicking "" will bring up the Filter Sign List screen. (See section 4-4.)</p> <p>Note: This item will not appear if the [Filter Sign Display] is set to [OFF] on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p>
Number of units in error *1	<p>The number of units under the control of EB-50 that are currently in error will appear. Clicking "" will bring up the Malfunction List screen. (See section 4-3.)</p>

\*1 The item will not appear if the number of units is "0."

### 4-1-3. Operating the units in a given group

In the Overview display of the Condition List screen, click one of the group icons to display its operation settings screen, which shows the current operation conditions. Change the desired settings and click [OK] to reflect the changes. Click [Cancel] to return to the previous screen without making any changes.

Note: Only the ON/OFF operation is possible for general equipment groups. The general equipment whose prohibition setting is enabled ([Allow operations] is set to [No operations] on the group settings screen, accessible via the Web Browser for Initial Settings) cannot be operated.

**Block name** → Meeting room (1F) Meeting room 1A

**ON/OFF** → [ON] [OFF]

**Operation mode** → Mode [Cool] [Dry] [Fan] [Heat] [Auto] [Setback]

**Set temperature** → Set Temp. Cool 24 °C Heat 19 °C

**Air direction** → Air Direction [Up] [Down] [Horizontal] [Swing] [Auto]

**Prohibit Remote Controller Operation** → [ON/OFF] [Mode] [Set Temp.] [Filter Sign]

**Filter Sign Reset** → Filter Sign Reset [Reset] [Hold] [ON] [OFF]

**Hold** → [Hold]

**Cancel** → [Cancel]

**OK** → [OK]

**Group name** → Condition List

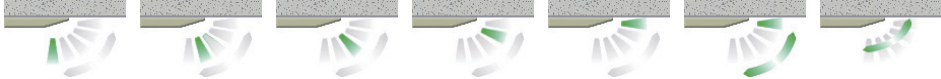
**Interlocked LOSSNAY ON/OFF** → [ON] [OFF]



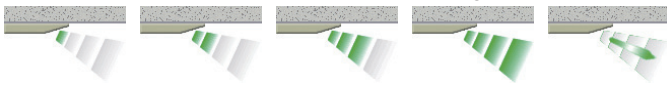





**Fan speed** → Fan Speed [Up] [Down]

**Fan speed of interlocked LOSSNAY** → Fan Speed [Up] [Down]

Click to return to the previous screen without making any changes.

Click to reflect the changes made.

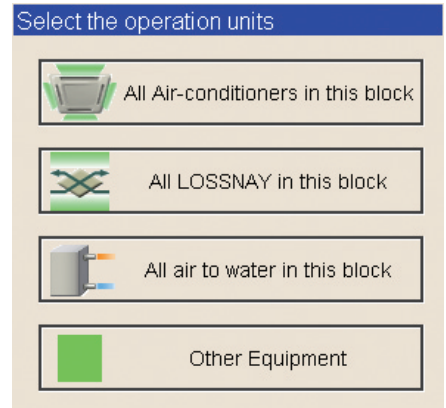
Item	Description
ON/OFF	Click [ON] or [OFF] to turn on or off the units in a given group. Note: Switching this switch will turn on or off the LOSSNAY unit as well that is interlocked with the operation of indoor units in the group. To turn on or off the LOSSNAY unit only, use the "Interlocked LOSSNAY ON/OFF" switch.
Operation mode *1	Click the desired operation mode. Air conditioning unit: Cool, Dry, Fan, Heat, Auto, Setback LOSSNAY unit: Heat Recovery, Bypass, Auto Air To Water (PWFY) unit: Heating, Heating ECO, Hot Water, Anti-freeze, Cooling Note: Only the operation modes available for the unit model will appear. Note: The Setback mode can be selected on the EB-50GU-A, but not on the EB-50GU-J.
Set temperature *1	Click [▲] or [▼] to adjust the set temperature of the air conditioning unit or the Air To Water (PWFY) unit. Note: The settable temperature ranges depend on the unit model. 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. Note: The temperature unit (°C or °F) can be selected on the Basic System settings screen, accessible via the Web Browser for Initial Settings.
Air Direction *1	Click [▲] or [▼] to adjust the air direction. (Mid 3) (Mid 2) (Mid 1) (Mid 0) (Horizontal) (Swing) (Auto)  Note: Available air directions depend on the unit model.

Item	Description
Fan Speed *1	<p>Click  or  to adjust the fan speed.</p> <p>(Low) (Mid 2) (Mid 1) (High) (Auto)</p>  <p>Note: Available fan speeds depend on the unit model.</p>
Prohibit Remote Controller Operation	<p>The following operations or setting change from the local remote controllers and the Web Browser for User can be prohibited: ON/OFF, Operation mode, Set temperature, and Filter sign reset.</p> <p>Click the operation item [ON/OFF], [Mode], [Set Temp.], [Filter Sign], [Air Direction], [Fan Speed], or [Timer] to switch the setting between  (Prohibit) or  (Permit).</p> <p>Note: For LOSSNAY unit (ventilator) groups, the item [Mode] or [Set Temp.] will not appear.</p> <p>Note: [Air Direction], [Fan Speed], and [Timer] may not be displayed, depending on the unit model.</p> <p>Note: When the [ON/OFF] operation is prohibited and the "Automatic recovery after power failure" switch on the indoor unit is set to "Turn off the power, or restore operation regardless of the operation status immediately before power failure," the operation of the indoor unit will not be restored, even when turned on after power restoration.</p> <p>When the switch is set to "Turn off the power, or restore operation if the unit was in operation immediately before power failure," the operation of the indoor unit will be restored regardless of whether the [ON/OFF] operation is prohibited or not.</p> <p>Refer to the indoor unit Installation Manual for details about switch settings.</p>
Filter Sign Reset	<p>Click [Reset] to switch between resetting and not resetting the filter sign. The rectangular icon next to Reset will appear in yellow-green when it is set to Reset (  ).</p> <p>Note: If a filter sign in the group has not been triggered, then the item [Filter Sign Reset] will not appear.</p> <p>Note: Filter sign of LOSSNAY units will not be reset.</p>
Hold	<p>Click [ON] or [OFF] to enable/disable the Hold function. When the Hold function is enabled, the scheduled operations are disabled.</p> <p>Note: The operations that have been scheduled from the remote controller will also be disabled.</p> <p>Note: [Hold type] can be specified on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>Note: The Hold function cannot be enabled on general equipments.</p> <p>Note: The Hold function can be used on the EB-50GU-A, but not on the EB-50GU-J.</p>
Interlocked LOSSNAY ON/OFF	<p>Click [ON] or [OFF] to turn on or off the interlocked LOSSNAY unit.</p> <p>Note: For a group that is not connected to an interlocked LOSSNAY unit (ventilator), the item [Interlocked ventilator ON/OFF] will not appear.</p>
Fan speed of interlocked LOSSNAY	<p>Click  or  to adjust the fan speed of the interlocked LOSSNAY unit (ventilator).</p> <p>Note: For a group that is not connected to an interlocked LOSSNAY unit, the item [Fan speed of interlocked LOSSNAY] will not appear.</p>

\*1 The item may not be displayed, depending on the unit model.

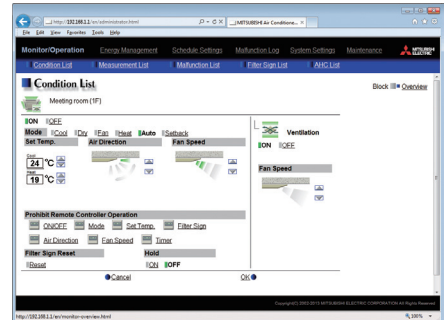
#### 4-1-4. Operating the units in a given block

- In the Block display of the Condition List screen, select a block to operate, and click [Batch Operations].  
If air conditioner group, LOSSNAY unit (ventilator) group, Air To Water (PWFY) unit group, and general equipment group exist together in the same block, a screen to select a group type will appear. Click one of the group types to change its settings.



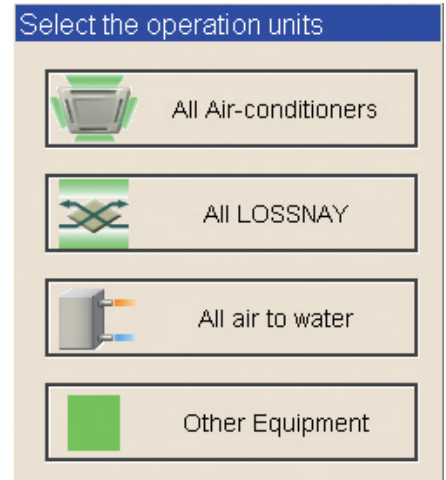
- On the operation settings screen, change the desired settings and click [OK] to reflect the changes.  
Click [Cancel] to return to the previous screen without making any changes.

Note: When the filter sign is reset on this screen, the cumulative operation time of all units will be reset, irrespective of whether or not the filter sign was triggered. Reset the filter sign on this screen when the filters of all units were cleaned at once.



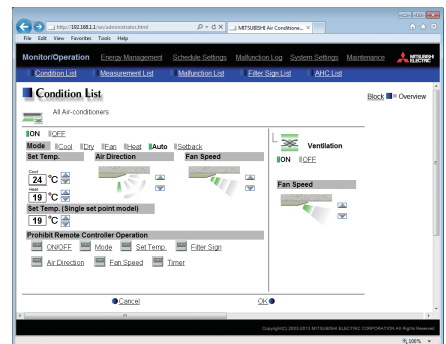
#### 4-1-5. Operating the units in all groups

- In the Overview display of the Condition List screen, click [Batch Operations]. If air conditioner group, LOSSNAY unit (ventilator) group, Air To Water (PWFY) unit group, and general equipment group exist together in the same system, a screen to select a group type will appear. Click one of the group types to change its settings.



- On the operation settings screen, change the desired settings and click [OK] to reflect the changes.  
Click [Cancel] to return to the previous screen without making any changes.

Note: When the filter sign is reset on this screen, the cumulative operation time of all units will be reset, irrespective of whether or not the filter sign was triggered. Reset the filter sign on this screen when the filters of all units were cleaned at once.



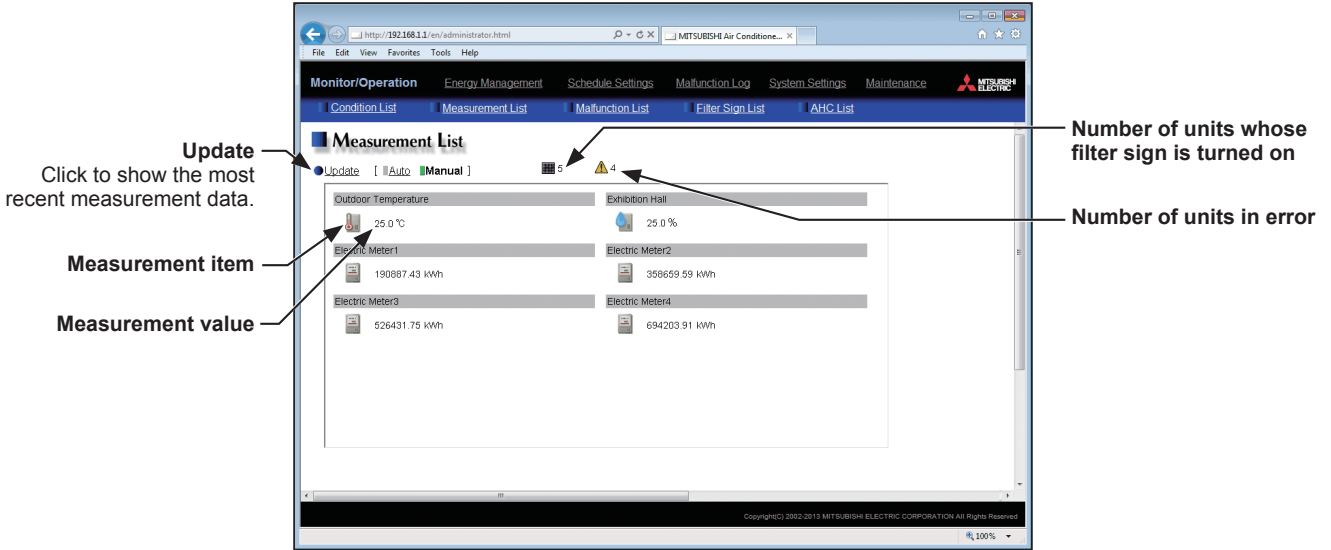
## 4-2. Measurement List

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

Click [Monitor/Operation] in the menu bar, and then click [Measurement List] to access the Measurement List 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 metering devices are required to measure the electric, water, heat, and gas consumptions.



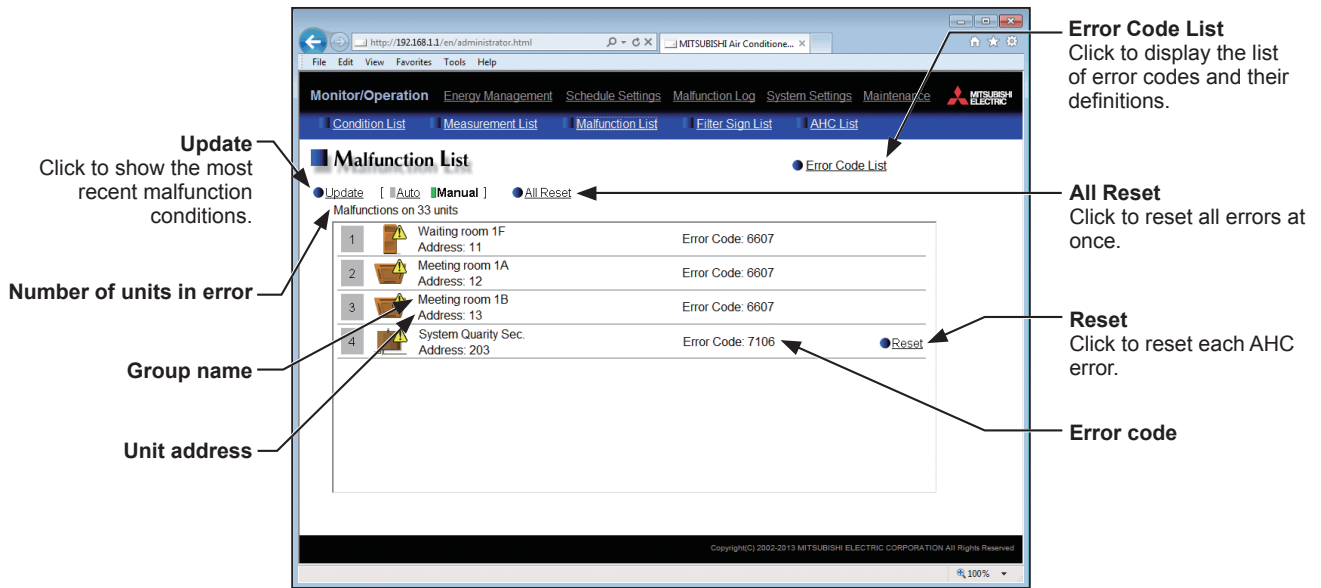
Item	Description																
Update	Click to show the most recent measurement data. When [Auto] is selected, the measurement data is updated automatically every minute.																
Measurement value	The current measurement values will appear. Note: The following icons are used to indicate the measuring devices. Icons will appear in orange when the measurement value reaches the upper or lower alarm threshold value that has been set on the Measurement screen, accessible via the Web Browser for Initial Settings. <table border="1" style="margin: 10px auto;"> <thead> <tr> <th></th> <th>Normal</th> <th>Upper/lower alarm threshold value is reached.</th> <th>Communication error</th> </tr> </thead> <tbody> <tr> <td>Temperature sensor</td> <td></td> <td></td> <td> *1</td> </tr> <tr> <td>Humidity sensor</td> <td></td> <td></td> <td> *1</td> </tr> <tr> <td>Metering device</td> <td></td> <td></td> <td> *2</td> </tr> </tbody> </table> <p>*1 When there is a communication error, the measurement value of the temperature or humidity sensor will be "--."</p> <p>*2 When there is a communication error, the measurement value of the metering device will be the measured value immediately before the error detection.</p>		Normal	Upper/lower alarm threshold value is reached.	Communication error	Temperature sensor			*1	Humidity sensor			*1	Metering device			*2
	Normal	Upper/lower alarm threshold value is reached.	Communication error														
Temperature sensor			*1														
Humidity sensor			*1														
Metering device			*2														
Number of units whose filter sign is turned on *1	The number of units under the control of EB-50 whose filter sign is currently turned on will appear. Clicking "5" will bring up the Filter Sign List screen. (See section 4-4.) Note: This item will not appear if the [Filter Sign Display] is set to [OFF] on the Basic System settings screen, accessible via the Web Browser for Initial Settings.																
Number of units in error *1	The number of units under the control of EB-50 that are currently in error will appear. Clicking "4" will bring up the Malfunction List screen. (See section 4-3.)																

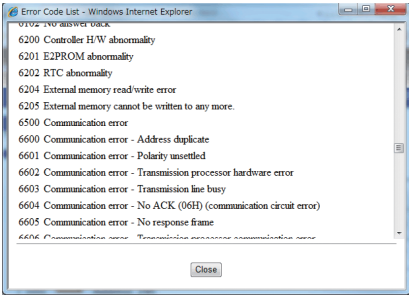
\*1 The item will not appear if the number of units is "0."



### 4-3. Malfunction List

Click [Monitor/Operation] in the menu bar, and then click [Malfunction List] to access the Malfunction List screen. A list of units that are currently malfunctioning will appear.



Item	Description
Update	Click to show the most recent malfunction conditions. When [Auto] is selected, the malfunction conditions are updated automatically every minute.
All Reset	Click to reset all errors at once.
Error Code List	Click to display the list of error codes and their definitions. 
Number of units in error	The number of malfunctioning units will appear.
Group name	The name of the group that the unit in error belongs to will appear. Note: The group name will be blank if the unit in error is a unit that does not belong to any group, such as an outdoor unit or a system controller.
Unit address	The address of the unit in error will appear.
Error code	The error code that corresponds to the error will appear.
Reset	Click to reset each AHC error.

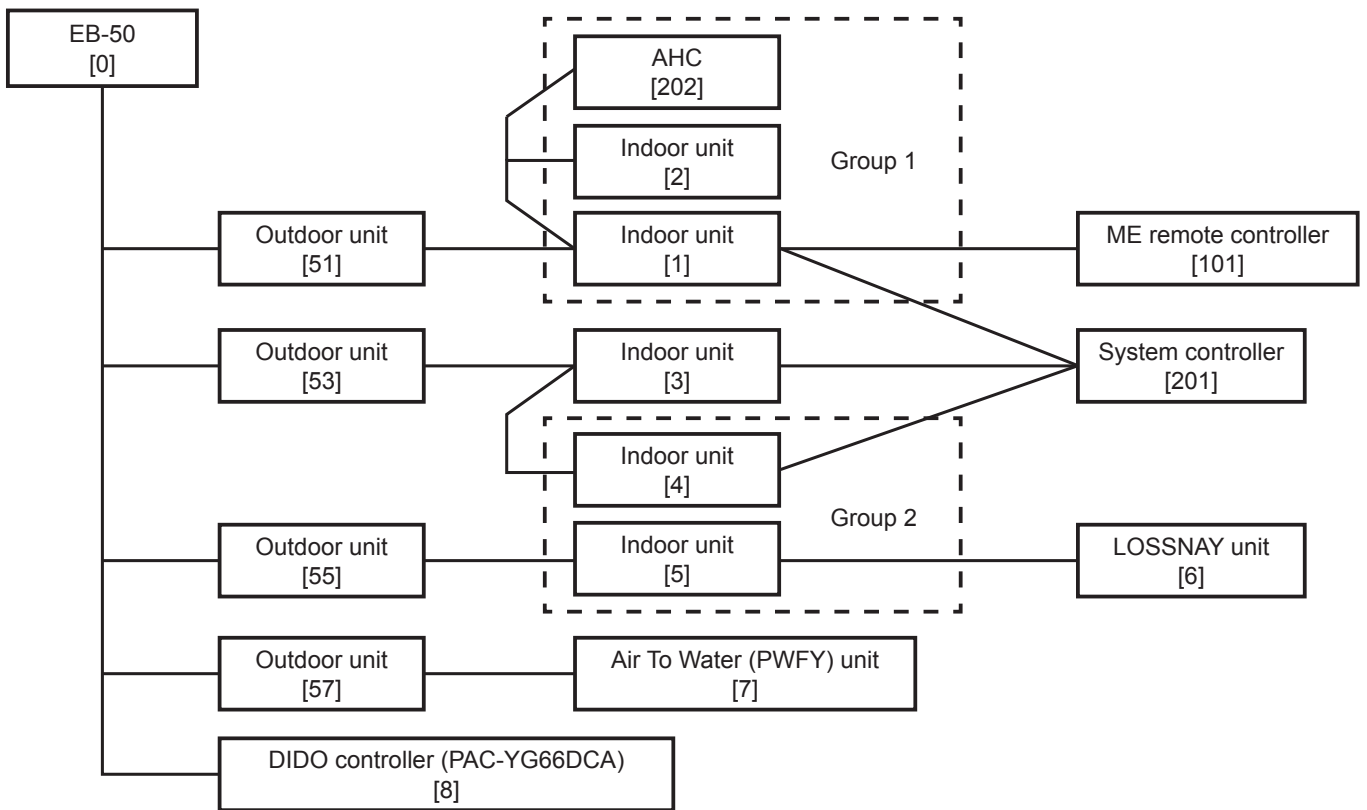


# Types of units in error and the units that will stop when errors are reset

Types of units in error and the units that will stop

Units in error	Units that will stop
EB-50	None
Outdoor unit	All indoor units that are connected to the outdoor unit in error
Indoor unit	Indoor unit in error and all other indoor units in the same group
ME (MA) remote controller	All indoor units that are connected to the remote controller in error
System controller	All indoor units that are connected to the system controller in error
Advanced HVAC CONTROLLER	None
Interlocked LOSSNAY unit	Indoor units with which the LOSSNAY unit in error is interlocked
Air To Water (PWFY) unit	Air To Water (PWFY) unit in error and all other Air To Water (PWFY) units in the same group
DIDO controller (PAC-YG66DCA)	None

Example of units in error and the units that will stop

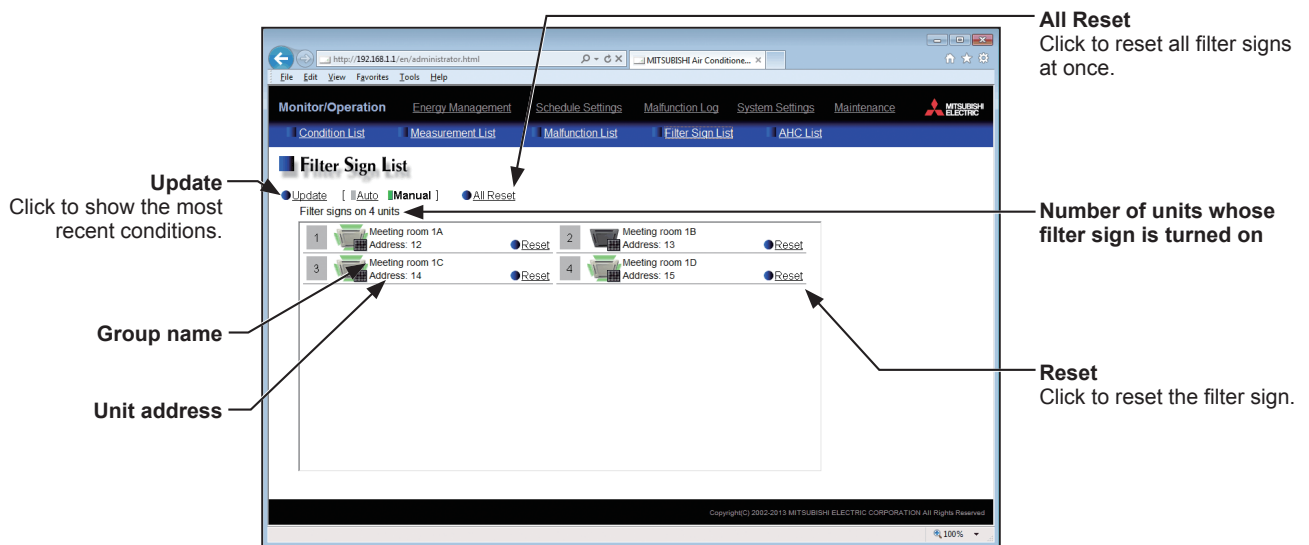


Units in error	Units that will stop
EB-50 [0]	None
Outdoor unit [51]	Indoor unit [1], Indoor unit [2]
Outdoor unit [53]	Indoor unit [3], Indoor unit [4], Indoor unit [5]
Outdoor unit [57]	Air To Water (PWFY) unit [7]
Indoor unit [1]	Indoor unit [1], Indoor unit [2]
Indoor unit [3]	Indoor unit [3]
Indoor unit [5]	Indoor unit [4], Indoor unit [5]
LOSSNAY unit [6]	Indoor unit [5]
Air To Water (PWFY) unit [7]	Air To Water (PWFY) unit [7]
ME remote controller [101]	Indoor unit [1]
System controller [201]	Indoor unit [1], Indoor unit [3], Indoor unit [4]
Advanced HVAC CONTROLLER [202]	None
DIDO controller (PAC-YG66DCA) [8]	None

## 4-4. Filter Sign List

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

Click [Monitor/Operation] in the menu bar, and then click [Filter Sign List] to access the Filter Sign List screen.

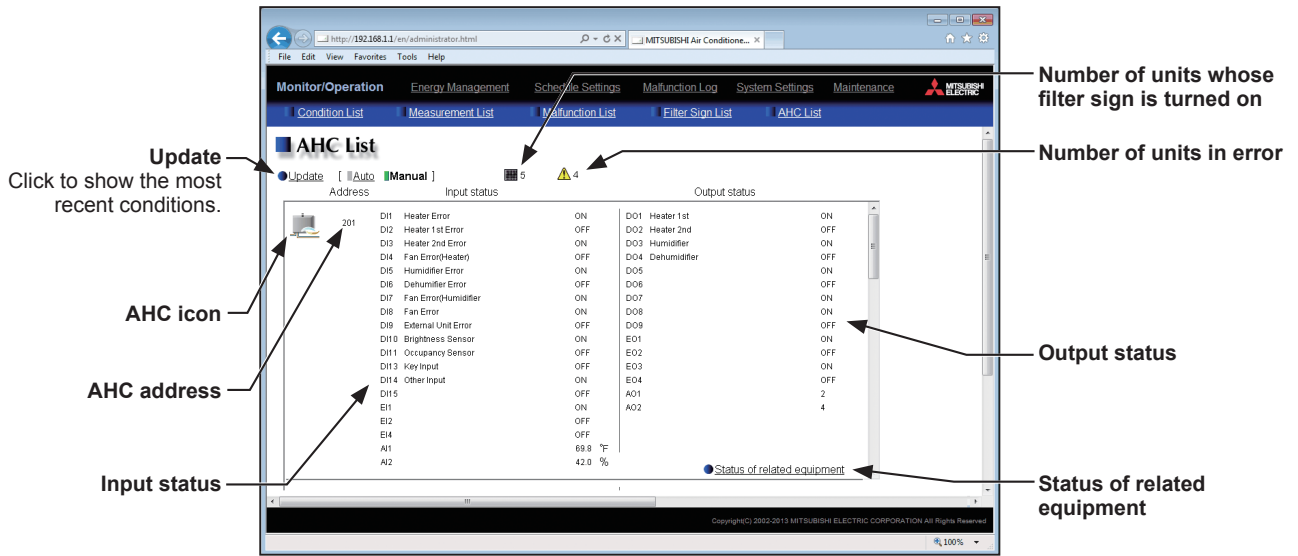




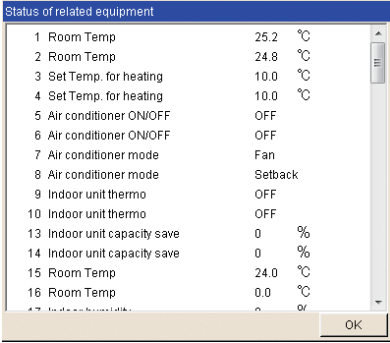
Item	Description
Update	Click to show the most recent conditions. When [Auto] is selected, the conditions are updated automatically every minute.
All Reset	Click to reset all filter signs at once.
Number of units whose filter sign is turned on	The number of units whose filter sign is currently turned on will appear.
Group name	The name of the group that the unit belongs to will appear.
Unit address	The address of the unit whose filter sign is turned on will appear.
Reset	Click to reset each filter sign.



## 4-5. AHC List

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

Click [Monitor/Operation] in the menu bar, and then click [AHC List] to access the AHC List screen. The port names and their status of each AHC will appear.



Item	Description
Update	Click to show the most recent conditions. When [Auto] is selected, the conditions are updated automatically every minute.
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. * D11–D15 (Digital input), E11–E14 (Extended digital input), A11–A18 (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. 

Item	Description
Number of units whose filter sign is turned on *1	<p>The number of units under the control of EB-50 whose filter sign is currently turned on will appear. Clicking "" will bring up the Filter Sign List screen. (See section 4-4.)</p> <p>Note: This item will not appear if the [Filter Sign Display] is set to [OFF] on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p>
Number of units in error *1	<p>The number of units under the control of EB-50 that are currently in error will appear. Clicking "" will bring up the Malfunction List screen. (See section 4-3.)</p>

\*1 The item will not appear if the number of units is "0."

# 5. Energy Management

## 5-1. 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 group, block, or unit address. Also, the status of other indoor units can be displayed at the same time for comparison.





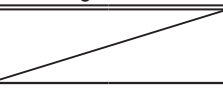







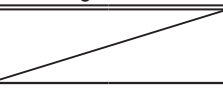







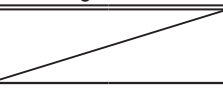




Click [Energy Management] in the menu bar, and then click [Energy Use Status] to access the Energy Use Status screen.

Note: A separate license is required, depending on the selected date range, display range, and display item.



Item	Description
Date range	Select [Day], [Month], or [Year]. Note: When [Day] is selected, the data for each hour between 0:00 and 24:00 of the specified date will appear in the graph. When [Month] is selected, the data for each day between the 1st and 31st of the specified month will appear in the graph. When [Year] is selected, the data for each month between January and December of the specified year will appear in the graph. Note: Only the data for the period during which the EB-50 was powered on will appear in the graph. The data for the period during which the EB-50 was powered off will not appear in the graph.
Display range	Select [Block], [Group], or [Address] to display its data.
Display target	Select a block name, group name, or address number to display its data. Note: The selectable items vary, depending on the item selected in the [Display range] field.
Date to display the data	Specify a date to display the data. Note: When [Day] is selected as a Date range, specify "yyyy/mm/dd" from the current month or the last 24 months. When [Month] is selected as a Date range, specify "yyyy/mm" from the current month or the last 24 months. When [Year] is selected as a Date range, specify "yyyy" from the current year or the last 4 years. Note: The date will appear in the format that has been set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.
Comparison target	Select a block name, group name, or address to display the comparison data. Note: The selectable items vary, depending on the item selected in the [Display range] field.
Comparison date	Specify a date to display the comparison data. Note: The same rule as for the "Date to display the data" apply. Note: The date will appear in the format that has been set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.
Refresh screen	Click to show the graph created based on the specified criteria. Note: No graph will appear if no data that meet the specified criteria exist.

Item	Description																																														
Display item	<p>Select an item in the top row to display its data in the bar graph, and select an item in the bottom row to display its data in the line graph.</p> <p>Note: The selectable items vary, depending on the items selected in the [Display range] and [Display target] fields.</p>																																														
	<p style="text-align: center;">            Display items for bar graph         </p>																																														
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 20%;">Display target</th> <th rowspan="2" style="width: 30%;">Display item</th> <th colspan="3">Display range</th> </tr> <tr> <th style="width: 15%;">Address</th> <th style="width: 15%;">Group</th> <th style="width: 15%;">Block</th> </tr> </thead> <tbody> <tr> <td rowspan="5" style="text-align: center; vertical-align: middle;">Indoor unit</td> <td>Electric Energy *3</td> <td style="text-align: center;">V *1</td> <td style="text-align: center;">V *1</td> <td style="text-align: center;">V *1</td> </tr> <tr> <td>Fan operation time *4</td> <td style="text-align: center;">V *1</td> <td style="text-align: center;">V *1</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Thermo-ON time (Total) *4</td> <td style="text-align: center;">V *1</td> <td style="text-align: center;">V *1</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Thermo-ON time (Cool) *4</td> <td style="text-align: center;">V *1</td> <td style="text-align: center;">V *1</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Thermo-ON time (Heat) *4</td> <td style="text-align: center;">V *1</td> <td style="text-align: center;">V *1</td> <td style="text-align: center;">-</td> </tr> <tr> <td rowspan="4" style="text-align: center; vertical-align: middle;">MCP (PI controller)</td> <td>Name of the metering device 1</td> <td style="text-align: center;">V *2</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Name of the metering device 2</td> <td style="text-align: center;">V *2</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Name of the metering device 3</td> <td style="text-align: center;">V *2</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Name of the metering device 4</td> <td style="text-align: center;">V *2</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </tbody> </table>	Display target	Display item	Display range			Address	Group	Block	Indoor unit	Electric Energy *3	V *1	V *1	V *1	Fan operation time *4	V *1	V *1	-	Thermo-ON time (Total) *4	V *1	V *1	-	Thermo-ON time (Cool) *4	V *1	V *1	-	Thermo-ON time (Heat) *4	V *1	V *1	-	MCP (PI controller)	Name of the metering device 1	V *2	-	-	Name of the metering device 2	V *2	-	-	Name of the metering device 3	V *2	-	-	Name of the metering device 4	V *2	-	-
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<p>*3 The electric energy consumed by indoor units will appear in the graph. The values are apportioned based on the setting for [Indoor unit operation apportioning mode] that has been made on the Energy Management Settings screen, accessible via the Web Browser for Initial Settings.</p>																																															
<p>*4 The indoor unit's cumulative operation time for the selected item will appear in the graph.</p> <ul style="list-style-type: none"> <li>• [FAN operation time] is the cumulative duration of time in which the indoor unit is powered on.</li> <li>• [Thermo-ON time (Total/Cool/Heat)] is the cumulative duration of time in which the indoor unit and the compressor are powered on. (Cool: when the Cool mode is selected; Heat: when the Heat mode is selected; Total: when either mode is selected)</li> </ul>																																															

Item	Description																																												
Display item	<p style="text-align: center;"> <u>Display items for line graph</u></p> <table border="1" data-bbox="496 248 1390 757"> <thead> <tr> <th rowspan="2">Display target</th> <th rowspan="2">Display item</th> <th colspan="3">Display range</th> </tr> <tr> <th>Address</th> <th>Group</th> <th>Block</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>Outdoor Temp. *5</td> <td>V *2</td> <td>V *2</td> <td>V *2</td> </tr> <tr> <td rowspan="3">Indoor unit</td> <td>Target value</td> <td>-</td> <td>-</td> <td>V *1*3</td> </tr> <tr> <td>Set Temp. for cool *5</td> <td>V *3</td> <td>V *3</td> <td>-</td> </tr> <tr> <td>Set Temp. for heat *5</td> <td>V *3</td> <td>V *3</td> <td>-</td> </tr> <tr> <td rowspan="2">MCT (AI controller) *5</td> <td>Name of the temperature sensor 1 or humidity sensor 1</td> <td>V *4</td> <td>-</td> <td>-</td> </tr> <tr> <td>Name of the temperature sensor 2 or humidity sensor 2</td> <td>V *4</td> <td>-</td> <td>-</td> </tr> <tr> <td rowspan="2">AHC *5</td> <td>Name of the temperature sensor 1</td> <td>V *3</td> <td>-</td> <td>-</td> </tr> <tr> <td>Name of the temperature sensor 2</td> <td>V *3</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p style="text-align: right;">V: Item that can be displayed in the graph</p> <p>*1 The target values will appear in the graph when the target electric energy values are specified on the Target Value Setting screen and when the electricity meter is selected in the [Indoor unit electricity meter] section on the Energy Management Settings screen, accessible via the Web Browser for Initial Settings.</p> <p>*2 Selectable only when the outdoor temperature sensor is selected in the [External Temperature Sensor] section on the Energy Management Settings screen, accessible via the Web Browser for Initial Settings.</p> <p>*3 "Energy Management License Pack" is required.</p> <p>*4 If the "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.</p> <p>*5 When [Day] is selected as a Date range, the temperature values obtained every 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.</p>	Display target	Display item	Display range			Address	Group	Block	-	Outdoor Temp. *5	V *2	V *2	V *2	Indoor unit	Target value	-	-	V *1*3	Set Temp. for cool *5	V *3	V *3	-	Set Temp. for heat *5	V *3	V *3	-	MCT (AI controller) *5	Name of the temperature sensor 1 or humidity sensor 1	V *4	-	-	Name of the temperature sensor 2 or humidity sensor 2	V *4	-	-	AHC *5	Name of the temperature sensor 1	V *3	-	-	Name of the temperature sensor 2	V *3	-	-
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Graph region	<p>The display target's data and the comparison target's data will appear in a bar graph and a line graph.</p> <table border="1" data-bbox="456 1196 1358 1384"> <thead> <tr> <th></th> <th>Display target</th> <th>Comparison target</th> <th>Target value</th> </tr> </thead> <tbody> <tr> <td> Bar graph</td> <td> (Brown)</td> <td> (Yellow)</td> <td></td> </tr> <tr> <td> Line graph</td> <td> (Orange)</td> <td> (Blue)</td> <td> (Red)</td> </tr> </tbody> </table> <p>Note: If no item is selected in the [Comparison target] field, only the data of the item selected in the [Display target] field will appear in the graph.</p> <p>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.</p>		Display target	Comparison target	Target value	 Bar graph	 (Brown)	 (Yellow)		 Line graph	 (Orange)	 (Blue)	 (Red)																																
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Item	Description																																							
Download	<p>Click [Download] to export the displayed measurement data in the CSV format. The CSV file name and file format will vary as shown below, depending on the selected date range.</p> <p>■ <u>File name</u></p> <p>&lt;When any item in the [Comparison target] field is selected&gt;</p> <p>Date range: Day EM_DailyTrend_[yyyy]-[mm]-[dd]_[Display target]_[YYYY]-[MM]-[DD]_[Comparison target]_[Bar graph type]_[Line graph type].csv</p> <p>Date range: Month EM_MonthlyTrend_[yyyy]-[mm]_[Display target]_[YYYY]-[MM]_[Comparison target]_[Bar graph type]_[Line graph type].csv</p> <p>Date range: Year EM_AnnualTrend_[yyyy]_[Display target]_[YYYY]_[Comparison target]_[Bar graph type]_[Line graph type].csv</p> <p>&lt;When no item in the [Comparison target] field is selected&gt;</p> <p>Date range: Day EM_DailyTrend_[yyyy]-[mm]-[dd]_[Display target]_[Bar graph type]_[Line graph type].csv</p> <p>Date range: Month EM_MonthlyTrend_[yyyy]-[mm]_[Display target]_[Bar graph type]_[Line graph type].csv</p> <p>Date range: Year EM_AnnualTrend_[yyyy]_[Display target]_[Bar graph type]_[Line graph type].csv</p>																																							
	<table border="1"> <thead> <tr> <th data-bbox="427 1025 667 1064">File-name contents</th> <th data-bbox="667 1025 1444 1064">Format</th> </tr> </thead> <tbody> <tr> <td data-bbox="427 1064 667 1102">[yyyy]</td> <td data-bbox="667 1064 1444 1102">The year specified in the [Date to display the data] field</td> </tr> <tr> <td data-bbox="427 1102 667 1140">[mm]</td> <td data-bbox="667 1102 1444 1140">The month specified in the [Date to display the data] field</td> </tr> <tr> <td data-bbox="427 1140 667 1178">[dd]</td> <td data-bbox="667 1140 1444 1178">The date specified in the [Date to display the data] field</td> </tr> <tr> <td data-bbox="427 1178 667 1283" rowspan="3">[Display target]</td> <td data-bbox="667 1178 1444 1216">Address "A" + M-NET address (000-250) + "_" + Sensor No. (00-04)</td> </tr> <tr> <td data-bbox="667 1216 1444 1254">Group "G" + Group No. (001-050) + "_" + "00"</td> </tr> <tr> <td data-bbox="667 1254 1444 1283">Block "B" + Block No. (001-050, 999 *1) + "_" + "00"</td> </tr> <tr> <td data-bbox="427 1283 667 1321">[YYYY]</td> <td data-bbox="667 1283 1444 1321">The year specified in the [Comparison date] field</td> </tr> <tr> <td data-bbox="427 1321 667 1359">[MM]</td> <td data-bbox="667 1321 1444 1359">The month specified in the [Comparison date] field</td> </tr> <tr> <td data-bbox="427 1359 667 1397">[DD]</td> <td data-bbox="667 1359 1444 1397">The date specified in the [Comparison date] field</td> </tr> <tr> <td data-bbox="427 1397 667 1503" rowspan="3">[Comparison target]</td> <td data-bbox="667 1397 1444 1435">Address "A" + M-NET address (000-250) + "_" + Sensor No. (00-04)</td> </tr> <tr> <td data-bbox="667 1435 1444 1473">Group "G" + Group No. (001-050) + "_" + "00"</td> </tr> <tr> <td data-bbox="667 1473 1444 1503">Block "B" + Block No. (001-050, 999 *1) + "_" + "00"</td> </tr> <tr> <td data-bbox="427 1503 667 1794" rowspan="7">[Bar graph type]</td> <td data-bbox="667 1503 1444 1541">B01: Electric energy (Indoor unit)</td> </tr> <tr> <td data-bbox="667 1541 1444 1579">B02: Fan operation time</td> </tr> <tr> <td data-bbox="667 1579 1444 1617">B03: Thermo-ON time (Total)</td> </tr> <tr> <td data-bbox="667 1617 1444 1655">B04: Thermo-ON time (Cool)</td> </tr> <tr> <td data-bbox="667 1655 1444 1693">B05: Thermo-ON time (Heat)</td> </tr> <tr> <td data-bbox="667 1693 1444 1731">B06: MCP electric energy</td> </tr> <tr> <td data-bbox="667 1731 1444 1769">B08: MCP water quantity</td> </tr> <tr> <td data-bbox="667 1769 1444 1794">B09: MCP heat quantity</td> </tr> <tr> <td data-bbox="427 1794 667 2045" rowspan="7">[Line graph type]</td> <td data-bbox="667 1794 1444 1832">L01: Set temperature (Cool)</td> </tr> <tr> <td data-bbox="667 1832 1444 1870">L02: Set temperature (Heat)</td> </tr> <tr> <td data-bbox="667 1870 1444 1908">L03: Room temperature</td> </tr> <tr> <td data-bbox="667 1908 1444 1946">L04: MCT temperature</td> </tr> <tr> <td data-bbox="667 1946 1444 1984">L05: AHC temperature</td> </tr> <tr> <td data-bbox="667 1984 1444 2022">L06: Outdoor temperature</td> </tr> <tr> <td data-bbox="667 2022 1444 2045">L08: MCT humidity</td> </tr> </tbody> </table>	File-name contents	Format	[yyyy]	The year specified in the [Date to display the data] field	[mm]	The month specified in the [Date to display the data] field	[dd]	The date specified in the [Date to display the data] field	[Display target]	Address "A" + M-NET address (000-250) + "_" + Sensor No. (00-04)	Group "G" + Group No. (001-050) + "_" + "00"	Block "B" + Block No. (001-050, 999 *1) + "_" + "00"	[YYYY]	The year specified in the [Comparison date] field	[MM]	The month specified in the [Comparison date] field	[DD]	The date specified in the [Comparison date] field	[Comparison target]	Address "A" + M-NET address (000-250) + "_" + Sensor No. (00-04)	Group "G" + Group No. (001-050) + "_" + "00"	Block "B" + Block No. (001-050, 999 *1) + "_" + "00"	[Bar graph type]	B01: Electric energy (Indoor unit)	B02: Fan operation time	B03: Thermo-ON time (Total)	B04: Thermo-ON time (Cool)	B05: Thermo-ON time (Heat)	B06: MCP electric energy	B08: MCP water quantity	B09: MCP heat quantity	[Line graph type]	L01: Set temperature (Cool)	L02: Set temperature (Heat)	L03: Room temperature	L04: MCT temperature	L05: AHC temperature	L06: Outdoor temperature	L08: MCT humidity
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*1 "B999" = Total of all blocks																																								



Item	Description				
Download	■ File format				
	Row	Item	Date range	Format	
	1st	File Type	Day	401	
			Month	402	
			Year	403	
	2nd	Date	Day	dd/mm/yyyy:DD/MM/YYYY *1	
			Month	mm/yyyy:MM/YYYY *1	
			Year	yyyy:YYYY *1	
	3rd	Target		"Block" + Block number (Display target)/ "Block" + Block number (Comparison target)	
	4th	Measurement item	Day	"Time",	"Block" + Block number (Display target) (Bar) + "-" + Display item (Bar), "Block" + Block number (Comparison target) (Bar) + "-" + Display item (Bar), "Target electric energy(kWh)"*2*3, "Block" + Block number (Display target) (Line) + "-" + Display item (Line), "Block" + Block number (Comparison target) (Line) + "-" + Display item (Line)
			Month	"Day",	
			Year	"Month",	
	5th–*5	Data *4	Day	hh:mm,	Data value (Bar), Comparison data value (Bar), Target electric energy value*2*3, Data value (Line), Comparison data value (Line)
			Month	dd,	
			Year	mm,	
*1 The date will appear in the format that has been set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.					
*2 "Target electric energy(kWh)" and the target electric energy value will appear only when the data is displayed in the graph.					
*3 "Target electric energy(kWh)" and the target electric energy value will not appear if [Day] is selected as a Date range.					
*4 The separator character and decimal point character selected on the Measurement screen (accessible via the Web Browser for Initial Settings) will be used to the data.					
*5 The number of rows varies with the selected date range. (Day: 5th–28th; Month: 5th–35th; Year: 5th–16th)					

Item	Description
Download	<p>■ <u>File sample</u></p> <p>Date range: Day</p> <div data-bbox="427 253 1377 517" style="border: 1px solid black; padding: 5px;"> <p>401 2013/08/19:2012/06/01 Block1/Block5 Time,Block1 - Indoor Unit Electric Energy,Block5 - Indoor Unit Electric Energy,Block1 - Outdoor Temp.,Block5 - Outdoor Temp. 00:00,0.61,0.25,23.2,17.8 01:00,0.65,0.51,23.1,17.6 02:00,0.66,0.48,22.1,18.1 03:00,0.66,0.58,23.3,18.2 04:00,0.63,0.47,24.5,17.5 05:00,0.59,0.39,26.8,19.1 06:00,0.52,0.52,28.1,22.1 : 23:00,0.59,0.23,23.4,17.1</p> </div> <p>Date range: Month</p> <div data-bbox="427 577 1377 857" style="border: 1px solid black; padding: 5px;"> <p>402 2013/08:2012/06 Block1/Block5 Day,Block1 - Indoor Unit Electric Energy,Block5 - Indoor Unit Electric Energy,Target electric energy (kWh),Block1 - Outdoor Temp.,Block5 - Outdoor Temp. 01,24.69,8.74,22,26.2,17.9 02,25.31,8.22,22,27,17.4 03,12.36,22.33,10,25.2,16.6 04,10.37,21.36,10,25.1,19.3 05,27.02,17.55,22,27.7,20.5 06,24.55,16.58,22,26.3,19 07,24.69,17.96,22,24.9,18.9 : 31,13.2,20.22,10,27.3,20.2</p> </div> <p>Date range: Year</p> <div data-bbox="427 913 1377 1193" style="border: 1px solid black; padding: 5px;"> <p>403 2013:2012 Block1/Block5 Month,Block1 - Indoor Unit Electric Energy,Block5 - Indoor Unit Electric Energy,Target electric energy (kWh),Block1 - Outdoor Temp.,Block5 - Outdoor Temp. 01,675.17,661.93,600,0.4,0.5 02,697.38,683.71,700,0.3,3.2 03,528.63,518.26,400,4.5,3.8 04,403.67,395.75,500,9.8,10 05,420.28,412.04,500,15.9,15.6 06,450.33,477.88,500,18.2,20.6 07,594.13,582.48,550,22.8,24.8 : 12,602.58,590.76,550,3.3,3.4</p> </div>

## 5-2. Ranking

On the Ranking screen, the rankings in electric energy consumption and the fan operation time of given indoor units can be displayed per block, group, and unit in descending order in the bar graph.

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

Note: "Energy Management License Pack" is required to access the Ranking screen.

**Display range**

**Date**

**Display item**

**Download**  
Click to export the data in the CSV format.

**Date range**

**Refresh screen**  
Click to show the graph created based on the specified criteria.

**Graph region**

Item	Description																															
Date range	Select [Day], [Month], or [Year].																															
Display range	Select [Block], [Group], or [Address] to display its data in the ranking graph.																															
Date	Specify a date to display the data in the ranking graph. Note: When [Day] is selected as a Date range, specify "yyyy/mm/dd" from the current month or the last 24 months. When [Month] is selected as a Date range, specify "yyyy/mm" from the current month or the last 24 months. When [Year] is selected as a Date range, specify "yyyy" from the current year or the last 4 years. Note: Only the data for the period during which the EB-50 was powered on will appear in the graph. The data for the period during which the EB-50 was powered off will not appear in the graph.																															
Display item	Select an item to display its data in the ranking graph. Note: The selectable items vary, depending on the items selected in the [Display range] field. <div style="text-align: center;"> <p><u>Display items</u></p> <table border="1"> <thead> <tr> <th rowspan="2">Display item</th> <th colspan="3">Display range</th> </tr> <tr> <th>Address</th> <th>Group</th> <th>Block</th> </tr> </thead> <tbody> <tr> <td>Electric Energy (kWh)</td> <td style="text-align: center;">V</td> <td style="text-align: center;">V</td> <td style="text-align: center;">V</td> </tr> <tr> <td>Fan operation time (min)</td> <td style="text-align: center;">V</td> <td style="text-align: center;">V</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Thermo-ON time (Total) (min)</td> <td style="text-align: center;">V</td> <td style="text-align: center;">V</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Thermo-ON time (Cool) (min)</td> <td style="text-align: center;">V</td> <td style="text-align: center;">V</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Thermo-ON time (Heat) (min)</td> <td style="text-align: center;">V</td> <td style="text-align: center;">V</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Target value (kWh)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">V *1</td> </tr> </tbody> </table> <p style="text-align: right;">V: Item that can be displayed in the graph</p> <p>*1 The target values will appear in the graph when the target electric energy values are specified on the Target Value Setting screen and when the electricity meter is selected in the [Indoor unit electricity meter] section on the Energy Management Settings screen, accessible via the Web Browser for Initial Settings.</p> </div>	Display item	Display range			Address	Group	Block	Electric Energy (kWh)	V	V	V	Fan operation time (min)	V	V	-	Thermo-ON time (Total) (min)	V	V	-	Thermo-ON time (Cool) (min)	V	V	-	Thermo-ON time (Heat) (min)	V	V	-	Target value (kWh)	-	-	V *1
Display item	Display range																															
	Address	Group	Block																													
Electric Energy (kWh)	V	V	V																													
Fan operation time (min)	V	V	-																													
Thermo-ON time (Total) (min)	V	V	-																													
Thermo-ON time (Cool) (min)	V	V	-																													
Thermo-ON time (Heat) (min)	V	V	-																													
Target value (kWh)	-	-	V *1																													
Refresh screen	Click to show the graph created based on the specified criteria. Note: No graph will appear if no data that meet the specified criteria exist.																															
Graph region	Ranking graph will appear in descending order of the value of the selected display item.																															

Item	Description																																											
Download	<p>Click [Download] to export the displayed measurement data in the CSV format. The CSV file name and file format will vary as shown below, depending on the selected date range.</p> <p>■ <u>File name</u></p> <p>Date range: Day EM_DailyRanking_[yyyy]-[mm]-[dd]_[Display range]_[Ranking graph type].csv</p> <p>Date range: Month EM_MonthlyRanking_[yyyy]-[mm]_[Display range]_[Ranking graph type].csv</p> <p>Date range: Year EM_AnnualRanking_[yyyy]_[Display range]_[Ranking graph type].csv</p> <table border="1" data-bbox="427 589 1453 1025"> <thead> <tr> <th>File-name contents</th> <th colspan="2">Format</th> </tr> </thead> <tbody> <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="3">[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 rowspan="5">[Ranking graph type]</td> <td colspan="2">B01: Electric energy (Indoor unit)</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> </tbody> </table>	File-name contents	Format		[yyyy]	The year specified in the [Date] field		[mm]	The month specified in the [Date] field		[dd]	The date specified in the [Date] field		[Display range]	Address	A999	Group	G999	Block	B999	[Ranking graph type]	B01: Electric energy (Indoor unit)		B02: Fan operation time		B03: Thermo-ON time (Total)		B04: Thermo-ON time (Cool)		B05: Thermo-ON time (Heat)														
	File-name contents	Format																																										
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<p>■ <u>File format</u></p> <table border="1" data-bbox="427 1120 1453 1760"> <thead> <tr> <th>Row</th> <th>Item</th> <th>Date range</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td rowspan="3">1st</td> <td rowspan="3">File Type</td> <td>Day</td> <td>404</td> </tr> <tr> <td>Month</td> <td>405</td> </tr> <tr> <td>Year</td> <td>406</td> </tr> <tr> <td rowspan="3">2nd</td> <td rowspan="3">Date</td> <td>Day</td> <td>dd/mm/yyyy *1</td> </tr> <tr> <td>Month</td> <td>mm/yyyy *1</td> </tr> <tr> <td>Year</td> <td>yyyy *1</td> </tr> <tr> <td rowspan="3">3rd</td> <td rowspan="3">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 rowspan="3">4th</td> <td rowspan="3">Measurement item</td> <td>Address</td> <td>"Address number", Display item</td> </tr> <tr> <td>Group</td> <td>"Group name", Display item</td> </tr> <tr> <td>Block</td> <td>"Block name", Display item, "Target electric energy(kWh)"*2</td> </tr> <tr> <td rowspan="3">5th–28th</td> <td rowspan="3">Data *3</td> <td>Address</td> <td>Address number, Data value</td> </tr> <tr> <td>Group</td> <td>"Group" + Group number, Data value</td> </tr> <tr> <td>Block</td> <td>"Block" + Block number, Data value, Target electric energy value*3</td> </tr> </tbody> </table>	Row	Item	Date range	Format	1st	File Type	Day	404	Month	405	Year	406	2nd	Date	Day	dd/mm/yyyy *1	Month	mm/yyyy *1	Year	yyyy *1	3rd	Display range	Address	"All addresses"	Group	"All groups"	Block	"All blocks"	4th	Measurement item	Address	"Address number", Display item	Group	"Group name", Display item	Block	"Block name", Display item, "Target electric energy(kWh)"*2	5th–28th	Data *3	Address	Address number, Data value	Group	"Group" + Group number, Data value	Block	"Block" + Block number, Data value, Target electric energy value*3
Row	Item	Date range	Format																																									
1st	File Type	Day	404																																									
		Month	405																																									
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2nd	Date	Day	dd/mm/yyyy *1																																									
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		Group	"Group name", Display item																																									
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5th–28th	Data *3	Address	Address number, Data value																																									
		Group	"Group" + Group number, Data value																																									
		Block	"Block" + Block number, Data value, Target electric energy value*3																																									
<p>*1 The date will appear in the format that has been set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>*2 "Target electric energy(kWh)" and the target electric energy value will appear only when the data is displayed in the graph.</p> <p>*3 The separator character and decimal point character selected on the Measurement screen (accessible via the Web Browser for Initial Settings) will be used to the data.</p>																																												

Item	Description
Download	<p>■ File sample</p> <p>Date range: Day</p> <div style="border: 1px solid black; padding: 5px;"> <p>404  01/23/2013  All blocks  Block name,Indoor Unit Electric Energy,Target electric energy (kWh)  Block1,25.19,21.2  Block5,19.58,18.13  Unregistered Blocks,17.01,19.73  Block3,11.2,16.9  Block6,6.19,5.24  Block2,5.98,10.96</p> </div> <p>Date range: Month</p> <div style="border: 1px solid black; padding: 5px;"> <p>405  01/2013  All blocks  Block name,Indoor Unit Electric Energy,Target electric energy (kWh)  Block1,780.89,657.2  Block5,606.98,562.03  Unregistered Blocks,527.31,611.63  Block3,347.2,523.9  Block6,191.89,162.44  Block2,185.38,339.76</p> </div> <p>Date range: Year</p> <div style="border: 1px solid black; padding: 5px;"> <p>406  2013  All blocks  Block name,Indoor Unit Electric Energy,Target electric energy (kWh)  Block1,9370.68,7886.4  Block5,7283.76,6744.36  Unregistered Blocks,6327.72,7339.56  Block3,4166.4,6286.8  Block6,2302.68,1949.28  Block2,2224.56,4077.12</p> </div>

### 5-3. Target Value Setting

This section explains how to set the target electric energy consumption values for the entire system for the current year, each month, each day of the week, and each block. The set values will be displayed in the graph on the Energy Use Status screen (see section 5-1) and the Ranking screen (see section 5-2).

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

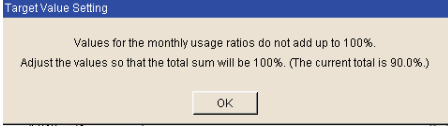
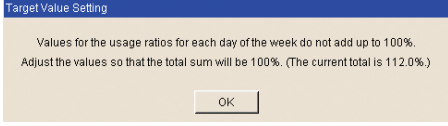
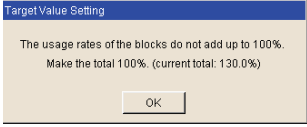
Under the [Total target value] section, the items [Annual target], [Monthly target], and [Usage ratio for each day of the week] will appear. Set the annual target electric energy, usage ratio for each month, and usage ratio for each day of the week to automatically calculate the monthly target electric energy.

Under the [Target value for each block] section, set the usage ratio for each block to automatically calculate the annual target electric energy for each block.

Important: The target value settings must be made after all units have been started up.  
The settings that have been saved while one or more units are starting up may be lost.

The screenshot shows the 'Target Value Setting' page. On the left, under 'Total target value', there are sections for 'Annual target' (with a comparison with the previous year), 'Monthly target' (a table with months and kWh values), and 'Usage ratio for each day of the week' (a table with days and percentage values). On the right, under 'Target value for each block', there is a table with columns for 'Block Name', 'Usage ratio', 'Auto calc.', and 'Annual target'. Callouts point to various elements: 'Annual target electric energy' points to the annual target input; 'Comparison with previous year' points to the comparison percentage input; 'Monthly target electric energy' points to the monthly kWh values; 'Usage ratio for each month' points to the usage ratio percentages; 'Usage ratio for each day of the week' points to the weekly usage ratio percentages; 'Refresh' points to a refresh button; 'Block name' points to the block names in the table; 'Annual target electric energy for each block' points to the annual target values in the table; 'Auto calc.' points to the checkboxes in the table; 'Usage ratio for each block' points to the usage ratio percentages in the table; 'Save Settings' points to the 'Save Settings' button; and 'Click to send the settings to EB-50.' points to the 'Save Settings' button.

Item	Description
Annual target electric energy	Enter the annual target electric energy consumption value. Note: The value must be between 0 and 4294967 kWh. Note: If the ratio is entered in the [Comparison with previous year] field, the annual target electric energy will be calculated automatically, based on the electric energy consumption data of the previous year.
Comparison with previous year	Enter the ratio of the annual target electric energy of the current year to the electric energy consumed in the previous year. Note: The ratio must be between 0.0 and 999.9%. Note: If the value is entered in the [Annual target electric energy] field, the ratio will be calculated automatically based on the electric energy consumption data of the previous year.
Monthly target electric energy	The target electric energy value for each month will appear. Note: The values cannot be entered. The values will be calculated automatically, based on the ratios entered in the [Usage ratio for each month] field.

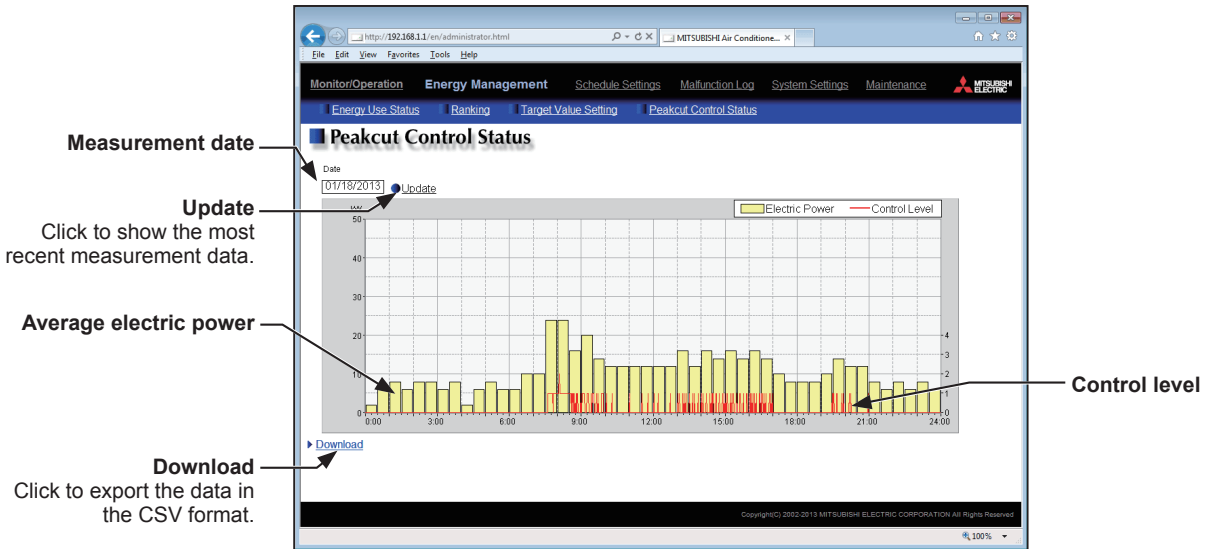
Item	Description
Usage ratio for each month	<p>Enter the target usage ratios of the annual electric energy for each month.</p> <p>Note: Each ratio must be between 0 and 100%.</p> <p>Note: The total of the ratios must be 100%. If the total is not 100%, a window that shows the current total value as shown below will appear and the setting will not be saved.</p>  <p>Note: When the ratios are entered, the values in the [Monthly target electric energy] field will be calculated automatically, based on the value in the [Annual target electric energy] field.</p>
Usage ratio for each day of the week	<p>Enter the target usage ratios of the electric energy for each day of the week.</p> <p>Note: The total of the ratios must be 100%. If the total is not 100%, a window that shows the current total value as shown below will appear and the setting will not be saved.</p>  <p>Note: When the ratios are entered, the values in the [Monthly target electric energy] field may change after being recalculated.</p>
Block name	<p>The names of all the registered blocks will appear.</p> <p>Note: If the block name has not been registered, ["Block" + block number] will appear.</p>
Usage ratio for each block	<p>Enter the target usage ratios of the electric energy for each block.</p> <p>Note: The ratios cannot be entered if the [Auto calc.] checkbox is checked. To enter the desired ratios, uncheck the checkbox.</p> <p>Note: The total of the ratios must be 100%. If the total is not 100%, a window that shows the current total value as shown below will appear and the setting will not be saved.</p> 
Auto calc.	<p>Check the checkbox to automatically calculate the usage ratio of the electric energy and the annual target electric energy for each block based on the indoor unit capacity.</p>
Annual target electric energy for each block	<p>The annual target electric energy for each block will appear after being calculated based on the ratios in the [Usage ratio for each block] field and the value entered in the [Annual target electric energy] field.</p>

## 5-4. Peakcut Control Status

This section explains how to check the Peakcut control status.

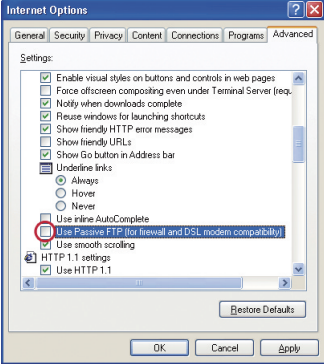
Click [Energy Management] in the menu bar, and then click [Peakcut Control Status] to access the Peakcut Control Status screen.

The average electric power consumption (kW) and the control level will appear in the graph. The measurement data can be exported in a CSV format from the screen.



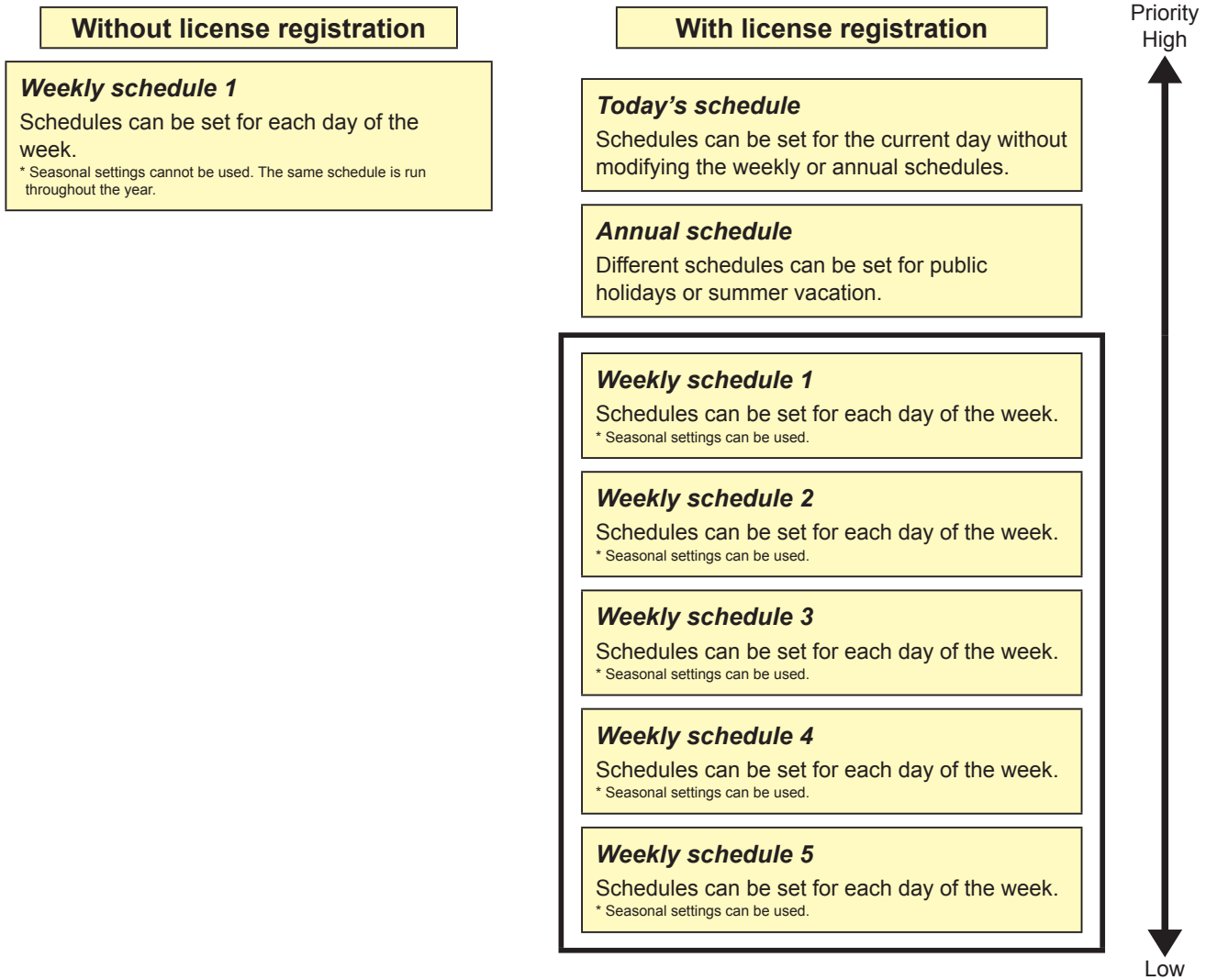
Item	Description								
Update	Click to show the most recent measurement data.								
Measurement date	Select the measurement date. Note: The data of the past three days including the current day can be displayed.								
Average electric power	Average electric power consumption (kW) will appear in 30-minute increments. 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] on the Peak Cut settings screen, accessible via the Web Browser for Initial Settings.								
Control level	Peak Cut control level will appear in 1-minute increments.								
Download	Click [Download] to export the measurement data in the CSV format as shown below. <ul style="list-style-type: none"> <li>■ File name</li> <li>Peakcut_[yyyy]-[mm]-[dd].csv</li> </ul> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>File-name contents</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>[yyyy]</td> <td>The year specified in the [Measurement date] field</td> </tr> <tr> <td>[mm]</td> <td>The month specified in the [Measurement date] field</td> </tr> <tr> <td>[dd]</td> <td>The date specified in the [Measurement date] field</td> </tr> </tbody> </table>	File-name contents	Format	[yyyy]	The year specified in the [Measurement date] field	[mm]	The month specified in the [Measurement date] field	[dd]	The date specified in the [Measurement date] field
File-name contents	Format								
[yyyy]	The year specified in the [Measurement date] field								
[mm]	The month specified in the [Measurement date] field								
[dd]	The date specified in the [Measurement date] field								



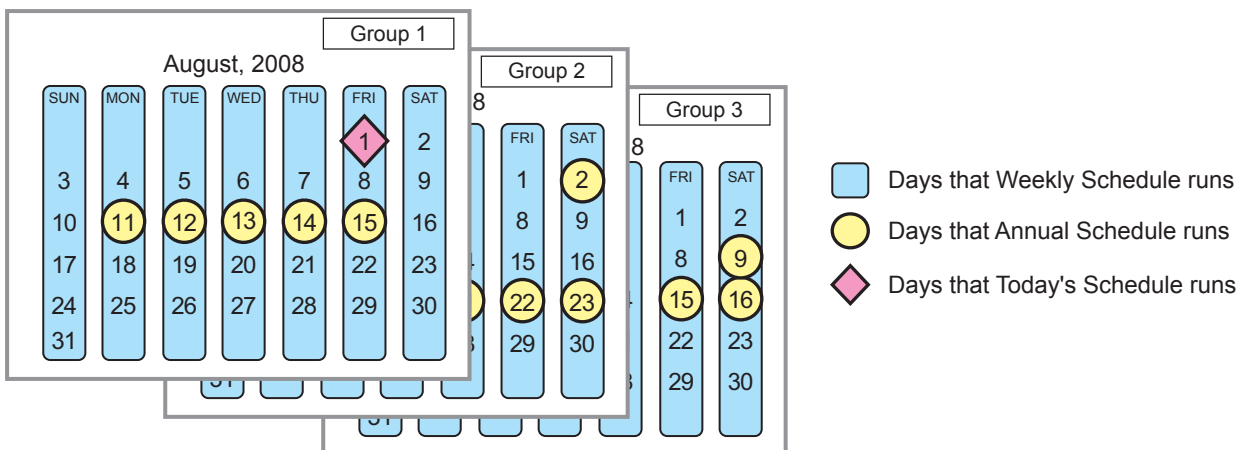
Item	Description																		
Download	<p>■ <b>File format</b></p> <table border="1" data-bbox="427 203 1401 506"> <thead> <tr> <th>Row</th> <th>Item</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>1st</td> <td>File Type</td> <td>123</td> </tr> <tr> <td>2nd</td> <td>Date</td> <td>yyyy/mm/dd *1</td> </tr> <tr> <td>3rd</td> <td>Target</td> <td>"Peakcut energy"</td> </tr> <tr> <td>4th</td> <td>Measurement item</td> <td>"Time,Power(kW),Control level"</td> </tr> <tr> <td>5th–</td> <td>Data</td> <td>hh:mm (1-minute intervals), average electric power consumption, control level Note: The average electric power (kW) values remains unchanged for 30 minutes.</td> </tr> </tbody> </table> <p>*1 The date will appear in the format that has been set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>■ <b>File sample</b></p> <div data-bbox="427 663 807 891" style="border: 1px solid black; padding: 5px;"> <pre> 123 01/04/2007 Peakcut energy Time,Power(kW),Control level 00:00,8,1 00:01,8,0 00:02,8,0 : : 23:58,6,0 23:59,6,0 </pre> </div> <p>Note: When the data cannot be exported properly, uncheck the "Use Passive FTP (for firewall and DSL modem compatibility)" checkbox.</p> 	Row	Item	Format	1st	File Type	123	2nd	Date	yyyy/mm/dd *1	3rd	Target	"Peakcut energy"	4th	Measurement item	"Time,Power(kW),Control level"	5th–	Data	hh:mm (1-minute intervals), average electric power consumption, control level Note: The average electric power (kW) values remains unchanged for 30 minutes.
	Row	Item	Format																
	1st	File Type	123																
	2nd	Date	yyyy/mm/dd *1																
	3rd	Target	"Peakcut energy"																
	4th	Measurement item	"Time,Power(kW),Control level"																
	5th–	Data	hh:mm (1-minute intervals), average electric power consumption, control level Note: The average electric power (kW) values remains unchanged for 30 minutes.																

# 6. Schedule Settings

Schedule functions [Weekly 1], [Weekly 2], [Weekly 3], [Weekly 4], [Weekly 5], [Annual], and [Today] are available for use if the "Annual Schedule, Weekly Schedule" license has been registered. Without the license registration, only [Weekly 1] (except the "Seasonal settings") is available for use.



Schedules can be set for each group, each block, or all groups. When the schedules overlap, schedule with the highest priority will run as shown above.



Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
							Weekly schedule1 (special)				
Weekly schedule 4 (winter)			Weekly schedule 2 (summer)					Weekly schedule 4 (winter)			
	Weekly schedule 5 (spring)						Weekly schedule 3 (autumn)				

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 5.

## 6-1. Weekly Schedule

Click [Schedule Settings] in the menu bar, and then click [Weekly 1], [Weekly 2], [Weekly 3], [Weekly 4], or [Weekly 5] to access the Weekly Schedule settings screen.

On the Weekly Schedule settings screen, schedules can be set for each day of the week.

Note: The "Weekly 1" (except the "Seasonal settings") function is available, even if the "Annual schedule, Weekly schedule" license has not been registered.

**Seasonal settings**  
Set the period in which the weekly schedule will be effective.

**Setting Range**  
Select a target to which the weekly schedule will be applied.

**Block Name**

**Group Name**

**Group Number**

**Copy (Group)/Paste**  
Click to copy or paste a schedule among groups.

**Undo**  
Click to undo changes.

**Day of the week selection**

**Copy (Day of the week)/ Paste**  
Click to copy or paste a schedule among the days of the week.

**Contents of Schedule**

**Edit**  
Click to display a schedule settings screen.

**Delete**  
Click to delete a schedule.

**Save Settings**  
Click to save the settings.

### (1) Selecting a target to which the schedule will be applied

#### (1-1) Selecting a group as a target

Select [Group] in the Setting Range section.

**Setting Range**

Group  Block  All Groups

Select the name of the block that the group belongs to and either the group name or the group number, OR just select the group name or the group number.

The contents of the schedule for the group will appear in the Contents of Schedule section, if any.

Note: Only one group can be selected. To copy the existing schedule settings of a group to the settings for another group, select the number of the group whose schedule settings are to be copied, click [Copy (Group)], select the number of the group to which the copied schedule settings are to be pasted, and click [Paste].

**Setting Object**

Block Name  
Lobby (1F)

Group Name  
Lobby(South)

Group Number

Copy (Group)  Paste

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

**(1-2) Selecting a block as a target**

Select [Block] in the Setting Range section.

Select a block name, or select one of the group numbers in the block to display the block name automatically. (If the selected group does not belong to a block, the block name will not be displayed automatically.)

The 'Setting Range' dialog box has a title bar 'Setting Range' and three radio buttons: 'Group', 'Block' (which is selected), and 'All Groups'.

The 'Setting Object' dialog box has a title bar 'Setting Object' and three radio buttons: 'Block Name', 'Group Name', and 'Group Number' (which is selected). Below the radio buttons are three input fields: a dropdown menu showing 'Lobby (2F)', an empty dropdown, and a 4x10 grid of numbers from 1 to 40. The numbers 19 and 20 in the second row, and 21, 22, and 23 in the third row are highlighted in green.

If air conditioner group, LOSSNAY unit (ventilator) group, Air To Water (PWFY) unit group, and general equipment group exist together in the same block, a screen to select a group type will appear. Click one of the group types to set the schedule.

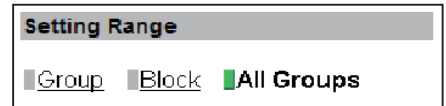
The 'Select the operation units' dialog box has a title bar 'Select the operation units' and four buttons with icons: 'All Air-conditioners in this block', 'All LOSSNAY in this block', 'All air to water in this block', and 'Other Equipment'.

A Schedule Settings screen will appear. To create a schedule for the given block from scratch, click the radio button next to [New settings] and click [OK]. To create a schedule based on the existing setting of another group, click the radio button next to [Based on the following group settings], select the name of 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 in the Contents of Schedule section.

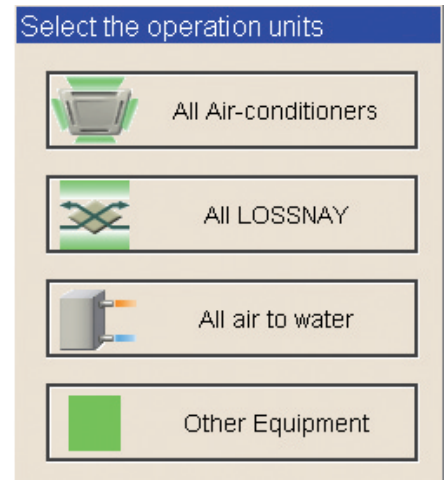
The 'Schedule Settings' dialog box has a title bar 'Schedule Settings' and two radio buttons: 'New settings' and 'Based on the following group settings' (which is selected). Below the radio buttons is a dropdown menu showing 'Tenant 1'. At the bottom are 'Cancel' and 'OK' buttons.

### (1-3) Selecting all groups as a target

Select [All Groups] in the Setting Range section.



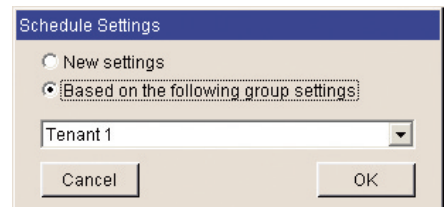
If air conditioner group, LOSSNAY unit (ventilator) group, Air To Water (PWFY) unit group, and general equipment group exist together in the same system, a screen to select a group type will appear. Click one of the group types to set the schedule.



A Schedule Settings screen will appear.

To create a schedule for the given groups from scratch, click the radio button next to [New settings] and click [OK].

To create a schedule based on the existing setting of another group, click the radio button next to [Based on the following group settings], select the name of 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 in the Contents of Schedule section.



### (2) Setting the date periods

Click [Edit] in the Seasonal settings section.

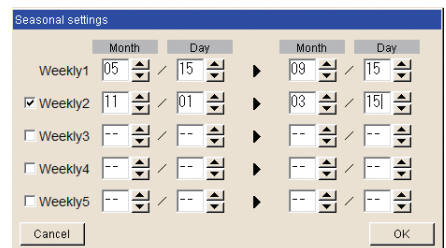
Enter the date periods in which each weekly schedule will be effective.

Check the checkboxes on the left side to enable each weekly schedule.

Note: If the [Schedule: Season setting] setting is set to [Not Available], the [Edit] button will not appear, and seasonal settings cannot be made. The [Schedule: Season setting] setting can be set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.

Note: If the "Annual schedule, Weekly schedule" license has not been registered, the Seasonal Settings section will not appear.

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 5.



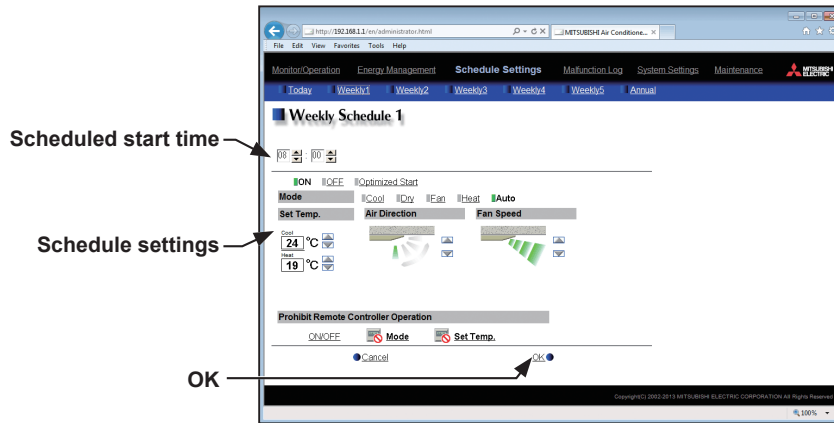
### (3) Selecting a day of the week

In the Contents of Weekly Schedule section, select a day to set the schedule.



#### (4) Setting the contents of the schedule

Click [Edit] in the Contents of Schedule section to display the schedule settings screen.



Set the start time to apply to the schedule, set the operations to be scheduled, and then press [OK].

The operations that can be scheduled for air conditioning unit groups are as follows: ON/OFF/Optimized Start, Mode, Set Temp, Air Direction, Fan Speed, and Prohibit Remote Controller Operation.

Up to 24 events can be scheduled per day.

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

Note: [Optimized Start] can be selected only for the air conditioning unit groups.

Note: If [Optimized Start] is selected, the operation mode and the set temperature need to be set as well. 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, based on the operation data in the past. (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, especially when the air conditioning unit is stopped and the room air is stagnant. When this is the case, use an external temperature sensor (PAC-SE40TSA) or remote controller sensor to measure the room temperature.

Note: If [Optimized Start] is selected and the [Prohibit Remote Controller Operation] setting is set to Prohibit or Permit at the same time, the operations from the remote controllers will be prohibited or permitted at the scheduled start time.

Note: When setting a schedule for a block or all groups, 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: For LOSSNAY unit groups, the item [Set Temp.] or [Air Direction] will not appear, and only ON/OFF setting under the Prohibit Remote Controller Operation can be made.

Note: For general equipment groups, only the operation ON/OFF settings can be made.

Note: The scheduled operations will continue to be in effect unless they are overwritten by the other schedule settings or the operation settings are changed on the Web browser. Be sure to set the contents of schedule in a way that will not impact on the next day's operation. For example, if Prohibit setting of remote controller operation is made for any time such as 17:00, Permit setting needs to be made for any time before the date changes such as 23:59.

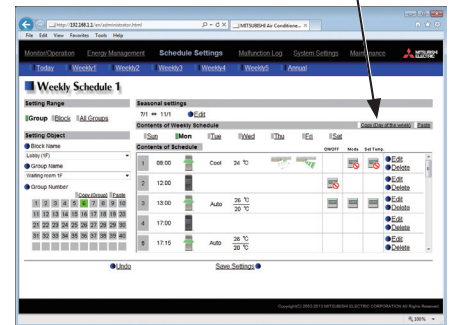
## (5) Copying a schedule

To copy the schedule settings of a day to the schedule settings for another day of the week, select the day whose schedule settings are to be copied, click [Copy (Day of the week)], select the day to which the copied schedule settings are to be pasted, and click [Paste]. The rectangular icon next to the selected button will appear in yellow-green.

Note: Schedules of a group cannot be copied to a different type of group. For example, the schedules of an air conditioning unit group cannot be copied to the schedules for a LOSSNAY unit group.

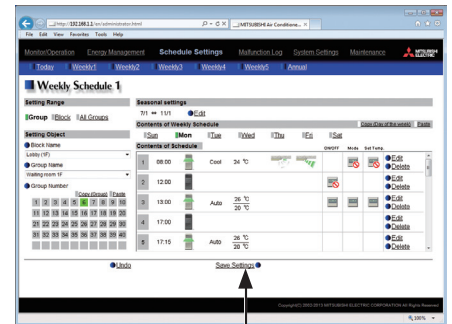
Note: The operation mode and set temperature may not be copied because the available operation modes or operable set temperature range differ among the units.

Copy (Day of the week)/Paste



## (6) Saving the schedules

To undo the changes made, click [Undo] before saving the schedules. After completing the settings, click [Save Settings] to save the schedules.



Save Settings

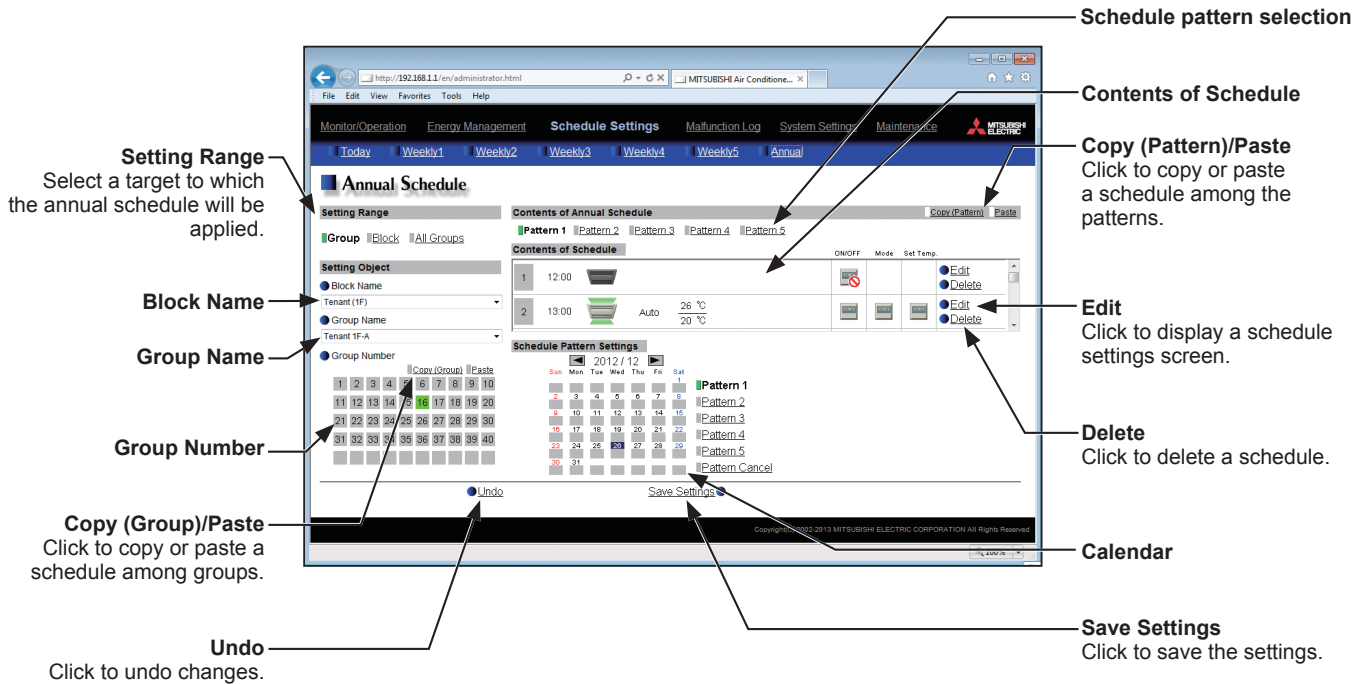


## 6-2. Annual Schedule

Click [Schedule Settings] in the menu bar, and then click [Annual Schedule] to access the Annual Schedule settings screen.

On the Annual Schedule settings screen, schedules can be set for public holidays or summer vacation.

Up to five operation patterns (Pattern 1 through 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

In the Setting Range and Setting Object sections, select the target to which the schedule will be applied, referring to section 6-1.

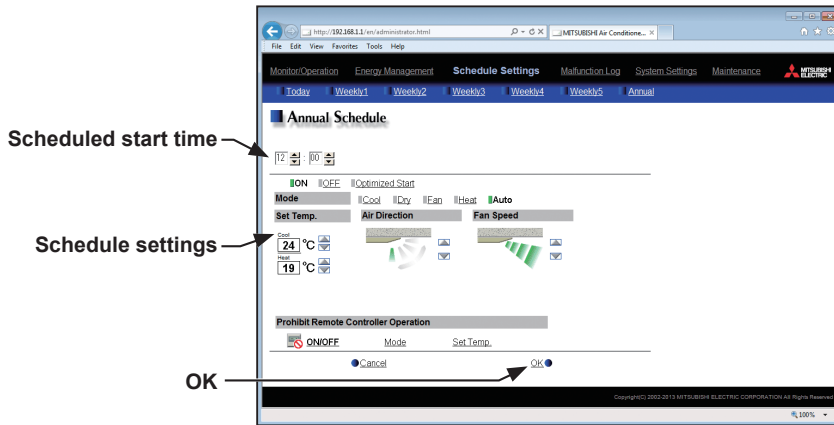
### (2) Selecting a schedule pattern

In the Contents of Annual Schedule section, select a schedule pattern to set the schedule.



### (3) Setting the contents of the schedule

Click [Edit] in the Contents of Schedule section to display the schedule settings screen.



Set the start time to apply to the schedule, set the operations to be scheduled, and then press [OK]. The operations that can be scheduled for air conditioning unit groups are as follows: ON/OFF/Optimized Start, Mode, Set Temp, Air Direction, Fan Speed, and Prohibit Remote Controller Operation.

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

Note: [Optimized Start] can be selected only for the air conditioning unit groups.

Note: If [Optimized Start] is selected, the operation mode and the set temperature need to be set as well. 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, based on the operation data in the past. (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, especially when the air conditioning unit is stopped and the room air is stagnant. When this is the case, use an external temperature sensor (PAC-SE40TSA) or remote controller sensor to measure the room temperature.

Note: If [Optimized Start] is selected and the [Prohibit Remote Controller Operation] setting is set to Prohibit or Permit at the same time, the operations from the remote controllers will be prohibited or permitted at the scheduled start time.

Note: When setting a schedule for a block or all groups, 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: For LOSSNAY unit groups, the item [Set Temp.] or [Air Direction] will not appear, and only ON/OFF setting under the Prohibit Remote Controller Operation can be made.

Note: For general equipment groups, only the operation ON/OFF settings can be made.

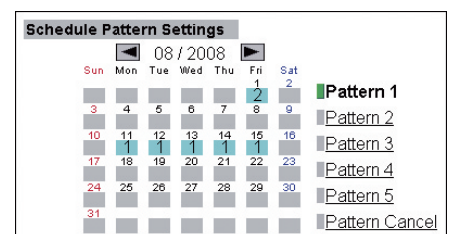
Note: The scheduled operations will continue to be in effect unless they are overwritten by the other schedule settings or the operation settings are changed on the Web browser. Be sure to set the contents of schedule in a way that will not impact on the next day's operation. For example, if Prohibit setting of remote controller operation is made for any time such as 17:00, Permit setting needs to be made for any time before the date changes such as 23:59.

### (4) Assigning schedule patterns to special dates

Each schedule pattern can be assigned to the specified dates.

Click a pattern from Pattern 1 through 5, and then select the days in the calendar by clicking on the rectangles corresponding to the days. When selected, the rectangles will appear with the number of the pattern that has been assigned.

To cancel the pattern assignment, select [Pattern Cancel], and then click on the rectangle corresponding to the day.



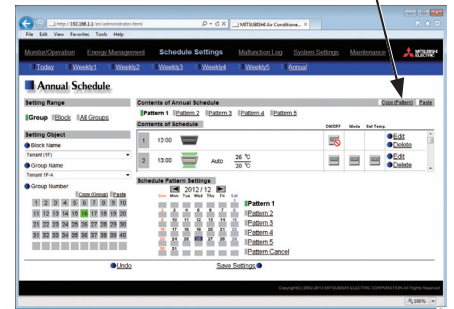
## (5) Copying a schedule

To copy the schedule settings of a pattern to the schedule settings for another pattern, select the pattern whose schedule settings are to be copied, click [Copy (Pattern)], select the pattern to which the copied schedule settings are to be pasted, and click [Paste]. The rectangular icon next to the selected button will appear in yellow-green.

Note: Schedules of a group cannot be copied to a different type of group.  
For example, the schedules of an air conditioning unit group cannot be copied to the schedules for a LOSSNAY unit group.

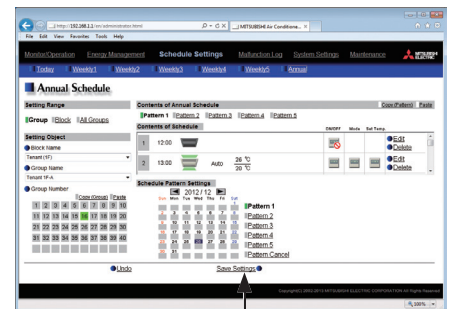
Note: The operation mode and set temperature may not be copied because the available operation modes or operable set temperature range differ among the units.

Copy (Pattern)/Paste



## (6) Saving the schedules

To undo the changes made, click [Undo] before saving the schedules.  
After completing the settings, click [Save Settings] to save the schedules.  
The settings of the days that have passed will be deleted automatically.

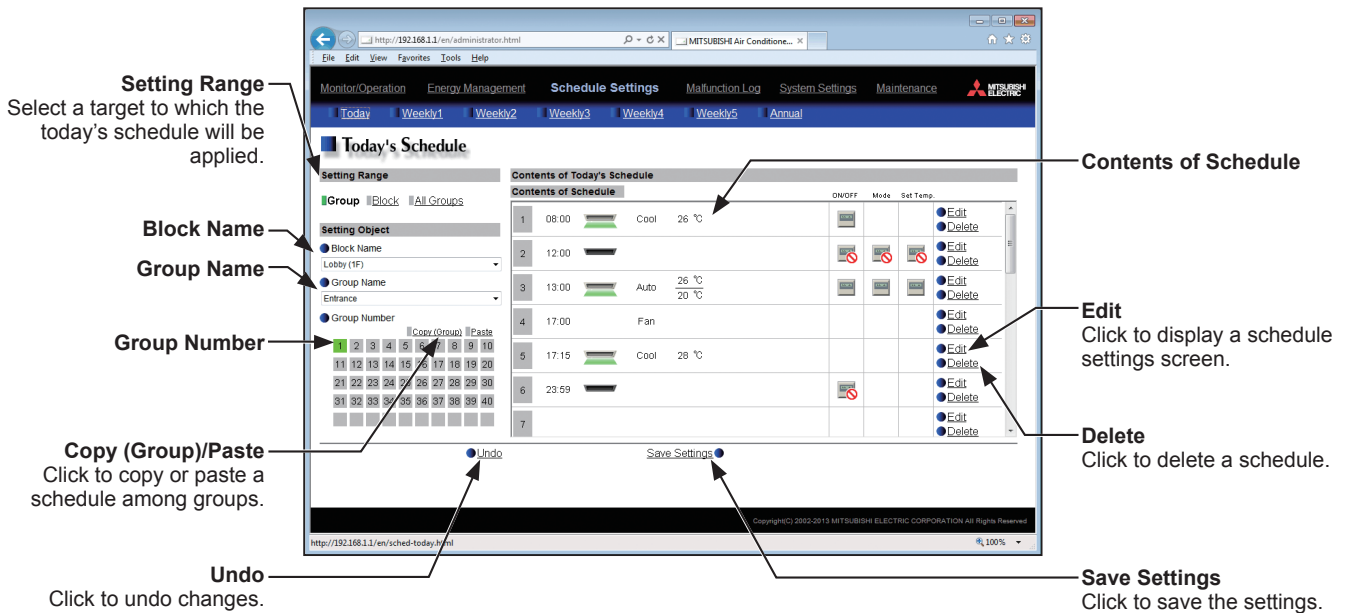


Save Settings

### 6-3. Today's Schedule

Click [Schedule Settings] in the menu bar, and then click [Today's Schedule] to access the Today's Schedule settings screen.

On the Today's Schedule settings screen, schedules can be set for the current day without modifying the weekly or annual schedules.

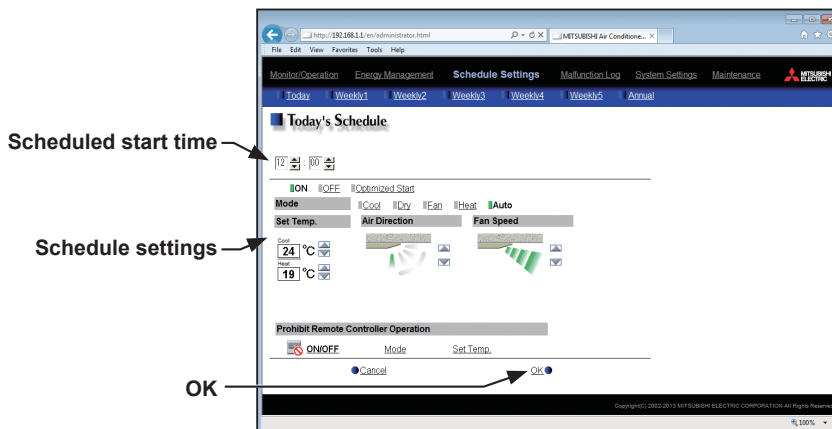


#### (1) Selecting a target to which the schedule will be applied

In the Setting Range and Setting Object sections, select the target to which the schedule will be applied, referring to section 6-1.

#### (2) Setting the contents of the schedule

Click [Edit] in the Contents of Schedule section to display the schedule settings screen.



Set the start time to apply to the schedule, set the operations to be scheduled, and then press [OK]. The operations that can be scheduled for air conditioning unit groups are as follows: ON/OFF/Optimized Start, Mode, Set Temp, Air Direction, Fan Speed, and Prohibit Remote Controller Operation. Up to 24 events can be scheduled per day.

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

Note: [Optimized Start] can be selected only for the air conditioning unit groups.

Note: If [Optimized Start] is selected, the operation mode and the set temperature need to be set as well. 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, based on the operation data in the past. (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, especially when the air conditioning unit is stopped and the room air is stagnant. When this is the case, use an external temperature sensor (PAC-SE40TSA) or remote controller sensor to measure the room temperature.

Note: If [Optimized Start] is selected and the [Prohibit Remote Controller Operation] setting is set to Prohibit or Permit at the same time, the operations from the remote controllers will be prohibited or permitted at the scheduled start time.

Note: When setting a schedule for a block or all groups, 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.

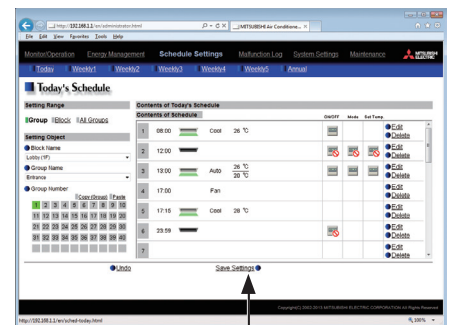
Note: For LOSSNAY unit groups, the item [Set Temp.] or [Air Direction] will not appear, and only ON/OFF setting under the Prohibit Remote Controller Operation can be made.

Note: For general equipment groups, only the operation ON/OFF settings can be made.

Note: The scheduled operations will continue to be in effect unless they are overwritten by the other schedule settings or the operation settings are changed on the Web browser. Be sure to set the contents of schedule in a way that will not impact on the next day's operation. For example, if Prohibit setting of remote controller operation is made for any time such as 17:00, Permit setting needs to be made for any time before the date changes such as 23:59.

### (3) Saving the schedules

To undo the changes made, click [Undo] before saving the schedules.  
After completing the settings, click [Save Settings] to save the schedules.

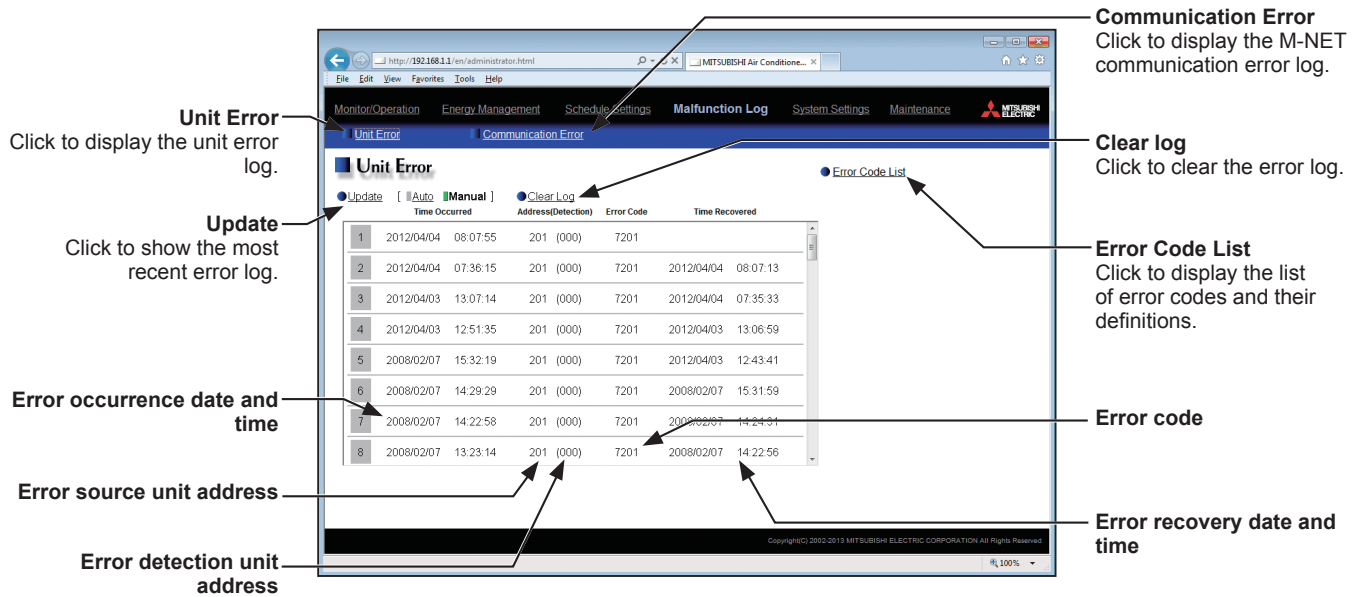


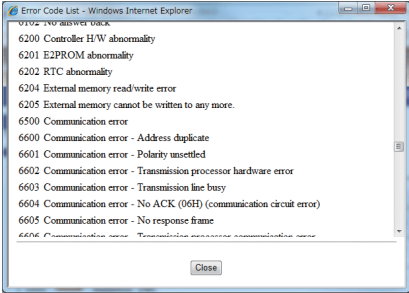
Save Settings

# 7. Malfunction Log

## 7-1. Unit Error/Communication Error

Click [Malfunction Log] in the menu bar, and then click [Unit Error] to display the last 64 unit errors, or click [Communication Error] to display the last 64 M-NET communication errors.



Item	Description
Unit Error	Click to display the unit error log.
Communication Error	Click to display the M-NET communication error log.
Update	Click to show the most recent error log. When [Auto] is selected, the error log is updated automatically every minute.
Clear Log	Click to clear the error log.
Error Code List	Click to display the list of error codes and their definitions. 
Error occurrence date and time	The date and time when the error occurred will appear.
Error source unit address	The address of the unit in error will appear.
Error detection unit address	The address of the unit that detected the error will appear.
Error code	The error code that corresponds to the error will appear.
Error recovery date and time	The date and time when the error was resolved will appear.

# 8. System Settings

## 8-1. Date/Time Settings

Click [System Settings] in the menu bar, and then click [Date/Time Settings] to access the date and time settings screen.

Set the current date and time, and then click [Save Settings] to send the settings to the EB-50.

Note: The date and time settings made on this screen will be reflected on all the units in the M-NET system and on the EB-50 units whose [Time Master] setting is set to [Sub].

Note: The date and time cannot be set on this screen if the [Time Master] setting is set to [Sub].

The screenshot shows a web browser window displaying the 'Date/Time Settings' page. The page includes fields for Year (2012), Month (01), Day (05), Hour (14), Minute (10), and Second (30). There is a checkbox for 'Automatically adjust clock for daylight saving changes' which is checked, and a dropdown menu for 'U.K.'. Below these fields are 'Refresh' and 'Save Settings' buttons. Callouts point to these elements with the following text:

- Daylight saving time setting**: Click to enable the daylight saving time setting.
- Refresh**: Click to acquire the current date and time from the EB-50.
- Current date and time**: Enter the current date and time.
- Save Settings**: Click to save the changes made.

- (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, and select the applicable country in the pulldown menu.

If the applicable country is not in the pulldown menu, select [Custom Settings] instead. A [Custom Settings] button will appear on the right of the pulldown menu.

Click the [Custom Settings] button to open the Custom Settings screen, and configure the daylight saving time setting.

The 'Custom Settings' dialog box has three main sections: 'Day', 'Month', and 'Time'. The 'Day' section has two rows of dropdown menus, both showing '01' and '04'. The 'Month' section has two rows of dropdown menus, both showing '10'. The 'Time' section has two rows of time selection fields, each with a colon separator and a right-pointing arrow. The first row shows '02:00' and '03:00', and the second row shows '03:00' and '02:00'. At the bottom are 'Cancel' and 'OK' buttons.

Custom Settings screen



## 8-2. User Registration

On the User Registration screen, the building manager's user name and password can be changed. If the "Personal Web" license is registered, up to 50 general users can be registered, and the groups that each general user is granted access to can be determined.

Click [System Settings] in the menu bar, and then click [User Registration] to access the User Registration screen.

Note: The building manager's user name and password for Web Browser for System Maintenance Engineer is the same as those for Web Browser for Initial Settings.

**Building manager's user name and accessible unit group icons**

**General user name and accessible unit group icons**

**Edit**  
Click to edit the user information.

**Delete**  
Click to delete the user information.

**Undo**  
Click to undo changes.

**Save Settings**  
Click to save the settings.

\* To show the group name, move the cursor to the group icon.

- To edit the user settings, click the [Edit] button in the row of the user to be changed. To change the user name or password, type new information in the [User Name], [New Password], and [Retype Password] fields. Check the checkboxes next to the unit groups to be made accessible for each general user. Each general user will be able to monitor and operate the unit groups that are specified on this screen. Click [OK].

Note: User names and passwords are case-sensitive.

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

- To undo changes made, click [Undo] before saving the settings. After completing the settings, click [Save Settings] to save the settings. Note that the changes will NOT be saved unless the [Save Settings] button is pressed.

**OK**

**Undo**

**Save Settings**

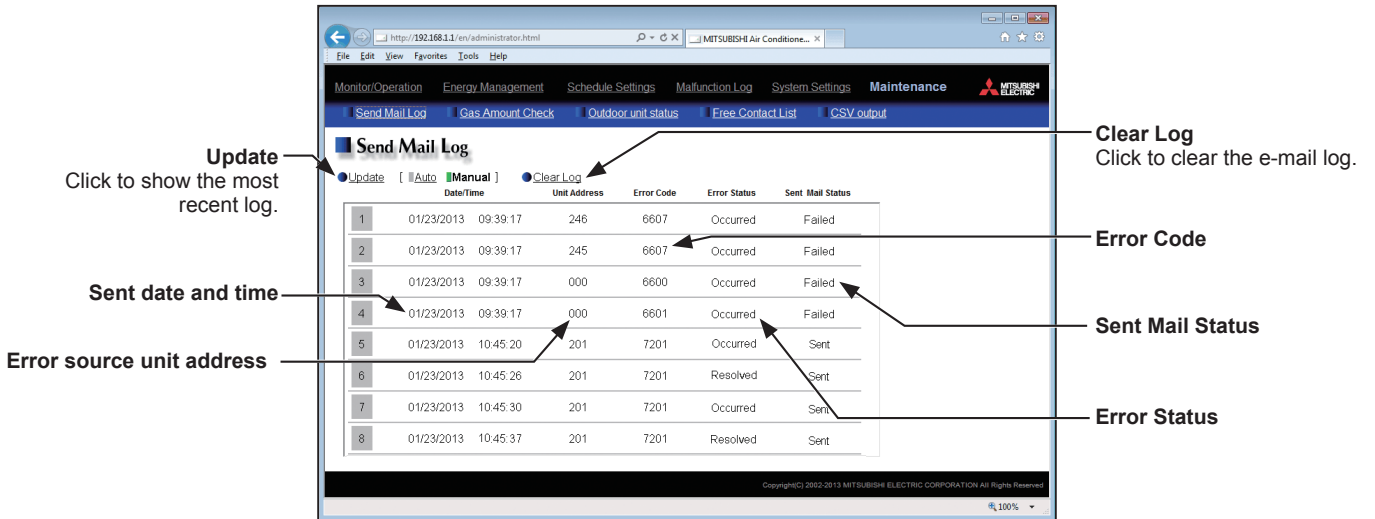


# 9. Maintenance

## 9-1. Send Mail Log

Click [Maintenance] in the menu bar, and then click [Send Mail Log] to access the Send Mail Log screen. A list of error notification e-mail that have been sent will appear.

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 on the Web Browser for Initial Settings.



Item	Description
Update	Click to show the most recent e-mail log. When [Auto] is selected, the e-mail log is updated automatically every minute.
Clear Log	Click to clear the e-mail log.
Sent date and time	The date and time when the e-mail was sent will appear.
Error source unit address	The address of the unit in error will appear. Note: When an error occurs on a general equipment connected to PLC Software for General Equipment, PLC number* (1 to 20) and connection number of the general equipment (1 to 32) will appear. (Example: PLC1-32) * PLC number indicates the row number on the [PLC Connection] screen, accessible from the [E-mail] screen on the Web Browser for Initial Settings. Note: When an error occurs on the general equipment connected via DIDO controller, M-NET address of the DIDO controller will appear. (The recipients will know that an error has occurred on one of the general equipment that is connected to the DIDO controller.)
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.

## 9-2. Gas Amount Check

On the Gas Amount Check screen, operators can check the outdoor units for proper gas refrigerant charge. Click [Maintenance] in the menu bar, and then click [Gas Amount Check] to access the Gas Amount Check screen.

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

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

The screenshot shows the 'Gas Amount Check' screen in a web browser. The interface includes a navigation menu at the top with options like 'Monitor/Operation', 'Energy Management', 'Schedule Settings', 'Malfunction Log', 'System Settings', and 'Maintenance'. Below the menu, there are several buttons: 'Send Mail Log', 'Gas Amount Check', 'Outdoor unit status', 'Free Contact List', and 'CSV output'. The main content area is titled 'Gas Amount Check' and contains a table with columns for 'Address', 'Check Result', and 'Log'. There are two rows of outdoor units, one with address 51 and one with address 76. Each row has a 'Check Start' button. A 'Log' table on the right side shows a list of check results with dates and times. Callouts point to various elements: 'Check all outdoor units' (a button), 'M-NET address of the outdoor unit' (the address column), 'Check Result' (the 'Normal' and 'Lo' text), 'Check Start' (the button), and 'Log' (the table of results).

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

**M-NET address of the outdoor unit**

**Check Result**  
Normal: Gas refrigerant charge is appropriate.  
Lo: Gas refrigerant charge is low.

**Check Start**  
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 outdoor units].  
To start a check for a given outdoor unit, click [Check Start] in the row of the outdoor unit to be checked. The [Check Start] button will change to [Check Cancel] button when clicked. To stop the check, click [Check Cancel].
- (2) The check will take between 30 minutes and 1 hour. Upon completion, check result "Normal" or "Lo" will appear. "Normal" indicates that the gas refrigerant charge is appropriate, and "Lo" indicates that the gas refrigerant charge is low.

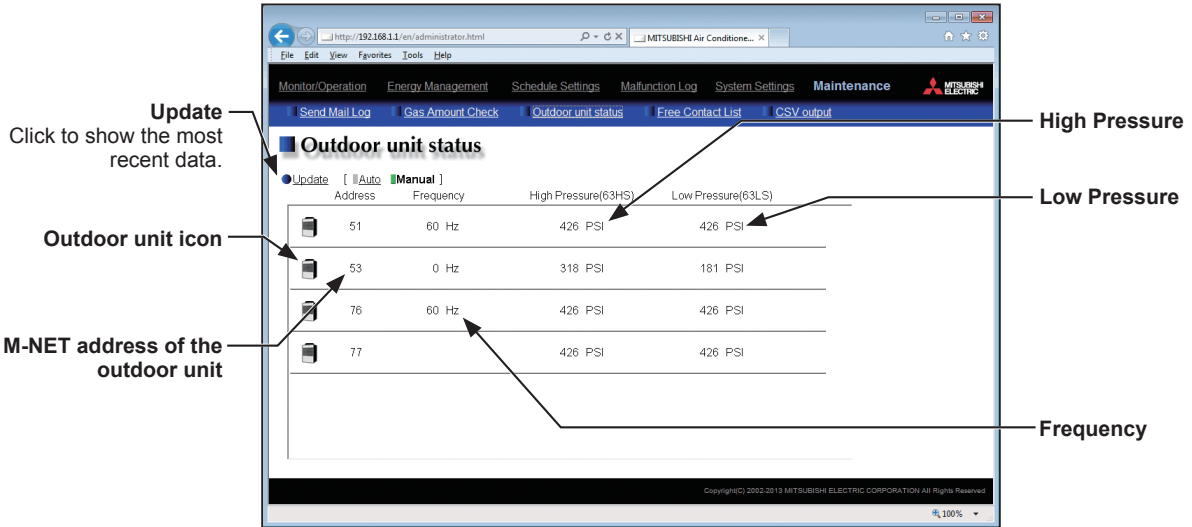
Note: The screen can be closed before a check is completed. The check results will be displayed next time this screen is opened.



### 9-3. Outdoor unit status

On the Outdoor Unit Status screen, operators can check the frequency, high pressure, and low pressure of each outdoor unit.

Click [Maintenance] in the menu bar, and then click [Outdoor unit status] to access the Outdoor Unit Status screen.

Note: The outdoor unit status may not appear if the EB-50 was started up while the outdoor unit was powered off. If this is the case, restart the EB-50.



Item	Description
Update	Click to show the most recent data. When [Auto] is selected, the data is updated automatically every minute.
Frequency	Operating frequency of the compressor on a given outdoor unit will appear. Note: The frequency 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

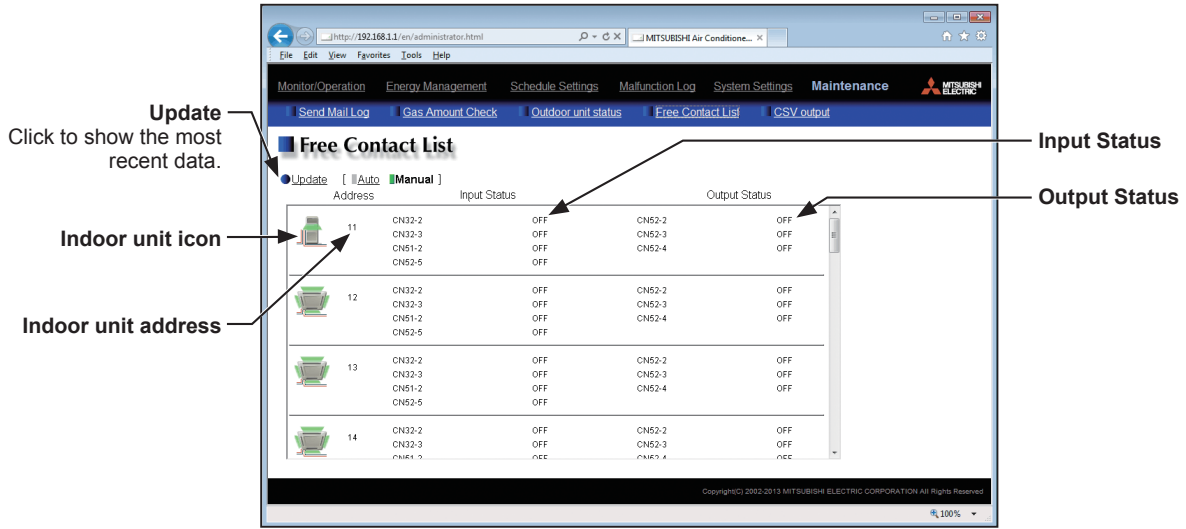
\* When a communication error occurs, "--" will appear in the Frequency, High Pressure, and Low Pressure value fields.



\* If the outdoor unit is a PUMY model of City Multi S-series, "--" will appear in the Frequency, High Pressure, and Low Pressure value fields.

## 9-4. Free Contact List

This chapter explains how to check the input/output status of the free contacts on the indoor units. Click [Maintenance] in the menu bar, and then click [Free Contact List] to access the Free Contact List screen.

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



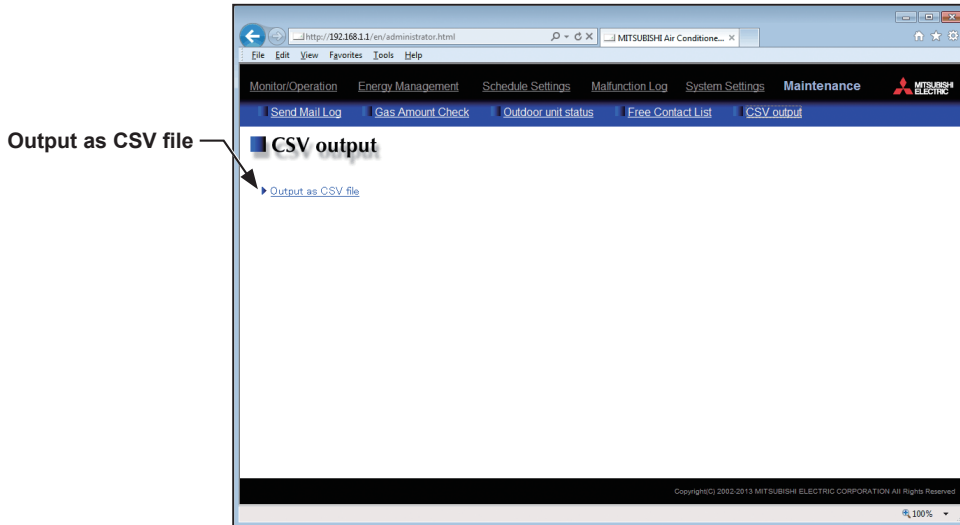
Item	Description
Update	Click to show the most recent data. When [Auto] is selected, the data is updated automatically every minute.
Input Status	The input status (ON or OFF) of the free contacts CN32-2, CN32-3, CN51-2, and CN52-5 on the indoor unit will appear.
Output Status	The output status (ON or 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

## 9-5. CSV output

The operation data, such as apportioning parameters, power consumption, and energy management data, can be output in a CSV format from the CSV Output screen.

Click [Maintenance] in the menu bar, and then click [CSV output] to access the CSV Output screen.

Note: A separate license may be required to use the CSV output function. Only valid buttons can be selected on the CSV File Download Tool screen.



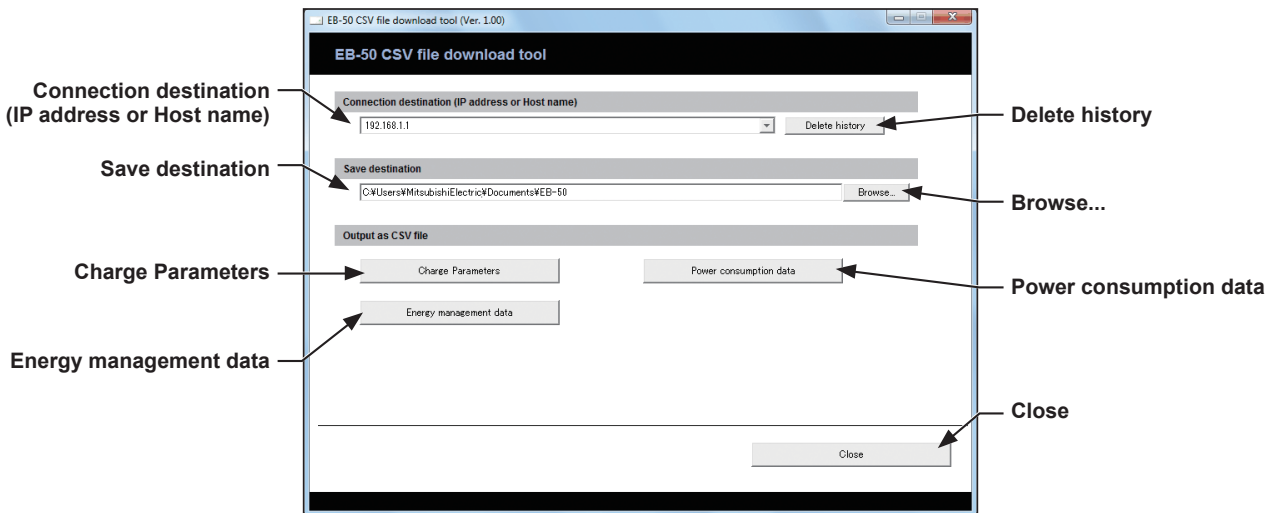
(1) Click [Output as CSV file] to display the Window's standard file download dialog.

(2) Click [Open] to start the CSV File Download Tool.

Note: If the "EB50csvdl.jar" file is associated with other applications, the CSV File Download Tool will not start up. Remove the association.

Note: If [Save] is clicked, the "EB50csvdl.jar" file will be saved in the specified folder. In this case, double clicking the file will also start the CSV File Download Tool.

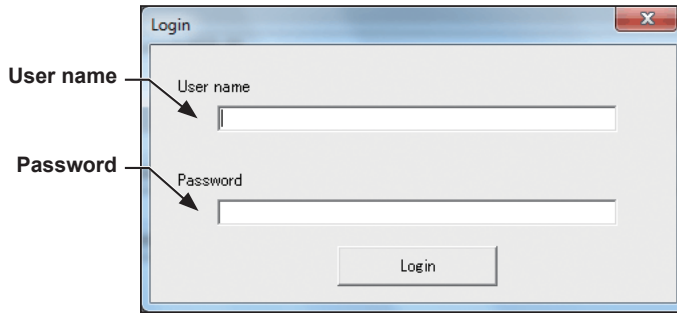
### CSV File Download Tool



(3) Specify the connection destination and the save destination, and click [Charge Parameters], [Power consumption data], or [Energy management data], referring to the table below.

A login screen will appear. Enter the user name and the password, and click [Login].

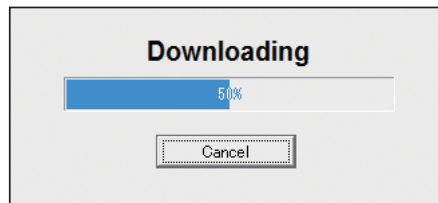
Note: The building manager or maintenance user can login.



(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 EB-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.

Item	Description																		
Charge Parameters	<p>Click to download a CSV file of the charge parameters.</p> <p>■ <b>File name</b>            ChargeParameter_[yyyy]-[mm]-[dd]A[Indoor unit address]-[Time period (1–5)].csv</p> <p>Note: The date will appear in the format that has been set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>Note: Time periods 1 through 5 can only be set from TG-2000A. When shipped from the factory, only Time period 1 is settable.</p> <p>■ <b>File output destination</b>            [Save destination]\[Serial No.]\OperationalData\ChargeParameters\[Date]</p> <p>Note: The date will appear in the format that has been set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>■ <b>File format</b></p> <table border="1" data-bbox="472 629 1437 904"> <thead> <tr> <th>Row</th> <th>Item</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>1st</td> <td>File Type</td> <td>201</td> </tr> <tr> <td>2nd</td> <td>Data range *1</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–404th</td> <td>Data *2*3*4*5</td> <td>Date *1, Capacity-save value (min), Thermo-ON time (min), Fan operation time (min), Sub-heater-ON time (min)</td> </tr> </tbody> </table> <p>*1 The date will appear in the format that has been set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>*2 The separator character and decimal point character selected on the Measurement screen (accessible via the Web Browser for Initial Settings) will be used to the data.</p> <p>*3 Each value is the cumulative value between the start date and the end date.</p> <p>*4 The value will not appear if the data does not exist.</p> <p>*5 Each file contains the data of up to 400 days.</p> <p>■ <b>File sample</b></p> <pre data-bbox="472 1211 1310 1435"> 201 12/19/2011-1/10/2013 Address 31 Date,SaveValue,ThermoTime,FanTime,SubHeaterTime 12/19/2011,1258,0,465,0 12/20/2011,1260,0,468,0 12/21/2011,1262,0,472,0 12/22/2011,1264,0,477,0 12/23/2011,1266,0,490,0 : 01/10/2013,2058,0,1013,0           </pre>	Row	Item	Format	1st	File Type	201	2nd	Data range *1	Start date + "-" + End date	3rd	Indoor unit address	"Address" + M-NET address	4th	Item	"Date,SaveValue,ThermoTime,FanTime,SubHeaterTime"	5th–404th	Data *2*3*4*5	Date *1, Capacity-save value (min), Thermo-ON time (min), Fan operation time (min), Sub-heater-ON time (min)
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Item	Description																		
Power consumption data	<p>Click to download a CSV file of the power consumption data.</p> <p>■ <b>File name</b>            ChargeParameter_[yyyy]-[mm]-[dd]MCPA[MCP address]-[Time period (1-5)].csv</p> <p>Note: The date will appear in the format that has been set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>Note: Time periods 1 through 5 can only be set from TG-2000A. When shipped from the factory, only Time period 1 is settable.</p> <p>■ <b>File output destination</b>            [Save destination]\[Serial No.]\OperationalData\ChargeParameters\[Date]</p> <p>Note: The date will appear in the format that has been set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>■ <b>File format</b></p> <table border="1" data-bbox="472 629 1453 931"> <thead> <tr> <th>Row</th> <th>Item</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>1st</td> <td>File Type</td> <td>202</td> </tr> <tr> <td>2nd</td> <td>Data range *1</td> <td>Start date + "-" + End date</td> </tr> <tr> <td>3rd</td> <td>MCP (PI controller) address</td> <td>"MCP" + M-NET address + "-" + 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-404th</td> <td>Data *2*3*4*5*6</td> <td>MCP address + Time period, Date *1, MCP 1, MCP 2, MCP 3, MCP 4</td> </tr> </tbody> </table> <p>*1 The date will appear in the format that has been set on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>*2 The separator character and decimal point character selected on the Measurement screen (accessible via the Web Browser for Initial Settings) will be used to the data.</p> <p>*3 Each value is the cumulative value between the start date and the end date.</p> <p>*4 Each value is between 0.00 and 999999.99. If the value exceeds the maximum value, it will wrap around to zero.</p> <p>*5 The value will not appear if the data does not exist.</p> <p>*6 Each file contains the data of up to 400 days.</p> <p>■ <b>File sample</b></p> <pre data-bbox="472 1294 1310 1503"> 202 12/19/2011-1/10/2013 MCP 50-1 No.,Date,Count value(Ch1),Count value(Ch2),Count value(Ch3),Count value(Ch4) 501,12/19/2011,190887.43,872411.43,227424.88,55515.50 501,12/20/2011,190899.16,872420.12,227428.63,55526.70 501,12/21/2011,190905.22,872442.23,227435.74,55537.90 501,12/22/2011,190910.38,878449.77,227448.19,55549.84 : 501,01/10/2013,200014.38,87950.36,227925.19,60111.63           </pre>	Row	Item	Format	1st	File Type	202	2nd	Data range *1	Start date + "-" + End date	3rd	MCP (PI controller) address	"MCP" + M-NET address + "-" + Time period (1-5)	4th	Item	"No.,Date,Count value(Ch1),Count value(Ch2),Count value(Ch3),Count value(Ch4)"	5th-404th	Data *2*3*4*5*6	MCP address + Time period, Date *1, MCP 1, MCP 2, MCP 3, MCP 4
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Item	Description													
Energy management data	<p>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.</p> <p>Refer to section 9-5-1 "Energy Management Data List" for details about the data that can be output in a CSV format.</p> <div data-bbox="478 324 1412 593" style="text-align: center;"> </div>													
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	1st	File Type	502															
	2nd	Data range *1	Start date + "-" + End date															
	3rd	Item *5	"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(1),...MCP1(50),MCP2(1),...MCP2(50),MCP3(1),...MCP3(50),MCP4(1),...MCP4(50),MCT1(1),...MCT1(50),MCT2(1),...MCT2(50),AHC1(201),...AHC1(250),AHC2(201),...AHC2(250)"															
	4th	Measurement unit *2*3*4*5	<table border="1" data-bbox="767 654 1417 974"> <thead> <tr> <th data-bbox="767 654 1241 692">Item</th> <th data-bbox="1241 654 1417 692">Unit</th> </tr> </thead> <tbody> <tr> <td data-bbox="767 692 1241 730">ApporionedElectricEnergy</td> <td data-bbox="1241 692 1417 730">kWh</td> </tr> <tr> <td data-bbox="767 730 1241 768">ThermoCount, Data1, Data2, Data3</td> <td data-bbox="1241 730 1417 768">-</td> </tr> <tr> <td data-bbox="767 768 1241 806">OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp</td> <td data-bbox="1241 768 1417 806">°C, °F</td> </tr> <tr> <td data-bbox="767 806 1241 882">FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue</td> <td data-bbox="1241 806 1417 882">Minute</td> </tr> <tr> <td data-bbox="767 882 1241 920">MCP (PI controller)</td> <td data-bbox="1241 882 1417 920">kWh, m3, MJ</td> </tr> <tr> <td data-bbox="767 920 1241 958">MCT (AI controller)</td> <td data-bbox="1241 920 1417 958">°C, °F, %</td> </tr> <tr> <td data-bbox="767 958 1241 974">AHC (Advanced HVAC CONTROLLER)</td> <td data-bbox="1241 958 1417 974">°C, °F</td> </tr> </tbody> </table>	Item	Unit	ApporionedElectricEnergy	kWh	ThermoCount, Data1, Data2, Data3	-	OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp	°C, °F	FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue	Minute	MCP (PI controller)	kWh, m3, MJ	MCT (AI controller)	°C, °F, %	AHC (Advanced HVAC CONTROLLER)
Item	Unit																	
ApporionedElectricEnergy	kWh																	
ThermoCount, Data1, Data2, Data3	-																	
OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp	°C, °F																	
FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue	Minute																	
MCP (PI controller)	kWh, m3, MJ																	
MCT (AI controller)	°C, °F, %																	
AHC (Advanced HVAC CONTROLLER)	°C, °F																	
5th–37204th	Data *5*6*7*8*9	Date *1 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)																
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Item	Description																	
Energy management data	[Data type: 1-day intervals]																	
	Row	Item	Format															
	1st	File Type	503															
	2nd	Data range *1	Start date + "-" + End date															
	3rd	Item *5	"DateTime,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(1),...MCP1(50),MCP2(1),...MCP2(50),MCP3(1),...MCP3(50), MCP4(1),...MCP4(50),MCT1(1),...MCT1(50),MCT2(1),...MCT2(50), AHC1(201),...AHC1(250),AHC2(201),...AHC2(250)"															
	4th	Measurement unit *2*3*4*5	<table border="1" data-bbox="767 654 1417 974"> <thead> <tr> <th data-bbox="767 654 1241 692">Item</th> <th data-bbox="1241 654 1417 692">Unit</th> </tr> </thead> <tbody> <tr> <td data-bbox="767 692 1241 730">ApporionedElectricEnergy, TargetElectricEnergy</td> <td data-bbox="1241 692 1417 730">kWh</td> </tr> <tr> <td data-bbox="767 730 1241 768">Data1, Data3</td> <td data-bbox="1241 730 1417 768">-</td> </tr> <tr> <td data-bbox="767 768 1241 806">OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp</td> <td data-bbox="1241 768 1417 806">°C, °F</td> </tr> <tr> <td data-bbox="767 806 1241 882">FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue</td> <td data-bbox="1241 806 1417 882">Minute</td> </tr> <tr> <td data-bbox="767 882 1241 920">MCP (PI controller)</td> <td data-bbox="1241 882 1417 920">kWh, m3, MJ</td> </tr> <tr> <td data-bbox="767 920 1241 958">MCT (AI controller)</td> <td data-bbox="1241 920 1417 958">°C, °F, %</td> </tr> <tr> <td data-bbox="767 958 1241 974">AHC (Advanced HVAC CONTROLLER)</td> <td data-bbox="1241 958 1417 974">°C, °F</td> </tr> </tbody> </table>	Item	Unit	ApporionedElectricEnergy, TargetElectricEnergy	kWh	Data1, Data3	-	OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp	°C, °F	FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue	Minute	MCP (PI controller)	kWh, m3, MJ	MCT (AI controller)	°C, °F, %	AHC (Advanced HVAC CONTROLLER)
Item	Unit																	
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Data1, Data3	-																	
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MCP (PI controller)	kWh, m3, MJ																	
MCT (AI controller)	°C, °F, %																	
AHC (Advanced HVAC CONTROLLER)	°C, °F																	
5th–779th	Data *5*6*7*8*9	Date *1, 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)																
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Item	Description																	
Energy management data	[Data type: 1-month intervals]																	
	Row	Item	Format															
	1st	File Type	504															
	2nd	Data range *1	Start year and month + "-" + End year and month															
	3rd	Item *5	"DateTime,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(1),...MCP1(50),MCP2(1),...MCP2(50),MCP3(1),...MCP3(50), MCP4(1),...MCP4(50),MCT1(1),...MCT1(50),MCT2(1),...MCT2(50), AHC1(201),...AHC1(250),AHC2(201),...AHC2(250)"															
	4th	Measurement unit *2*3*4*5	<table border="1" data-bbox="769 654 1417 974"> <thead> <tr> <th data-bbox="769 654 1241 692">Item</th> <th data-bbox="1241 654 1417 692">Unit</th> </tr> </thead> <tbody> <tr> <td data-bbox="769 692 1241 730">ApporionedElectricEnergy, TargetElectricEnergy</td> <td data-bbox="1241 692 1417 730">kWh</td> </tr> <tr> <td data-bbox="769 730 1241 768">Data1, Data3</td> <td data-bbox="1241 730 1417 768">-</td> </tr> <tr> <td data-bbox="769 768 1241 806">OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp</td> <td data-bbox="1241 768 1417 806">°C, °F</td> </tr> <tr> <td data-bbox="769 806 1241 884">FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue</td> <td data-bbox="1241 806 1417 884">Minute</td> </tr> <tr> <td data-bbox="769 884 1241 922">MCP (PI controller)</td> <td data-bbox="1241 884 1417 922">kWh, m3, MJ</td> </tr> <tr> <td data-bbox="769 922 1241 960">MCT (AI controller)</td> <td data-bbox="1241 922 1417 960">°C, °F, %</td> </tr> <tr> <td data-bbox="769 960 1241 974">AHC (Advanced HVAC CONTROLLER)</td> <td data-bbox="1241 960 1417 974">°C, °F</td> </tr> </tbody> </table>	Item	Unit	ApporionedElectricEnergy, TargetElectricEnergy	kWh	Data1, Data3	-	OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp	°C, °F	FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue	Minute	MCP (PI controller)	kWh, m3, MJ	MCT (AI controller)	°C, °F, %	AHC (Advanced HVAC CONTROLLER)
Item	Unit																	
ApporionedElectricEnergy, TargetElectricEnergy	kWh																	
Data1, Data3	-																	
OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp	°C, °F																	
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MCP (PI controller)	kWh, m3, MJ																	
MCT (AI controller)	°C, °F, %																	
AHC (Advanced HVAC CONTROLLER)	°C, °F																	
5th–29th	Data *5*6*7*8*9	yyyy/mm *1, 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)																
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Item	Description											
Energy management data	[Data type: 1-year intervals]											
	Row	Item	Format									
	1st	File Type	505									
	2nd	Date range	Start year + "-" + End year									
	3rd	Item *2	"DateTime,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(1),...MCP1(50),MCP2(1),...MCP2(50),MCP3(1),...MCP3(50), MCP4(1),...MCP4(50)"									
	4th	Measurement unit *1*2	<table border="1" data-bbox="774 589 1417 790"> <thead> <tr> <th data-bbox="774 589 1241 622">Item</th> <th data-bbox="1241 589 1417 622">Unit</th> </tr> </thead> <tbody> <tr> <td data-bbox="774 622 1241 656">ApporionedElectricEnergy, TargetElectricEnergy</td> <td data-bbox="1241 622 1417 656">kWh</td> </tr> <tr> <td data-bbox="774 656 1241 689">Data1, Data3</td> <td data-bbox="1241 656 1417 689">-</td> </tr> <tr> <td data-bbox="774 689 1241 768">FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue</td> <td data-bbox="1241 689 1417 768">Minute</td> </tr> <tr> <td data-bbox="774 768 1241 790">MCP (PI controller)</td> <td data-bbox="1241 768 1417 790">kWh, m3, MJ</td> </tr> </tbody> </table>	Item	Unit	ApporionedElectricEnergy, TargetElectricEnergy	kWh	Data1, Data3	-	FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue	Minute	MCP (PI controller)
Item	Unit											
ApporionedElectricEnergy, TargetElectricEnergy	kWh											
Data1, Data3	-											
FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue	Minute											
MCP (PI controller)	kWh, m3, MJ											
5th-9th	Data *2*3*4	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)										
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Close	Click to close the CSV File Download Tool.											

## 9-5-1. Energy Management Data List

Table 9-1 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 9-2 below summarizes how many months/years worth of data each CSV file can contain.

Table 9-1 Data items

Unit type	Item	Data type (intervals)					Measurement unit	Data range *12
		5-minute	30-minute	1-day *7	1-month *8	1-year *9		
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		°C, °F	-100.0–1000.0
Indoor unit	Cooling set temperature	V	V *2	V *3	V *4		°C, °F	-100.0–1000.0
	Heating set temperature	V	V *2	V *3	V *4		°C, °F	-100.0–1000.0
	Room temperature	V	V *2	V *3	V *4		°C, °F	-100.0–1000.0
	Fan operation time		V *10	V *11	V *11	V *11	Minute	0–2147483647
	Cooling operation time		V *10	V *11	V *11	V *11	Minute	0–2147483647
	Heating operation time		V *10	V *11	V *11	V *11	Minute	0–2147483647
	Thermo-ON time		V *10	V *11	V *11	V *11	Minute	0–2147483647
	Cooling Thermo-ON time		V *10	V *11	V *11	V *11	Minute	0–2147483647
	Heating Thermo-ON time		V *10	V *11	V *11	V *11	Minute	0–2147483647
	Number of Thermo-ON/OFF *6		V *10				–	0–2147483647
	Capacity-save value		V *10	V *11	V *11	V *11	Minute	0–21474836.47
	Cooling capacity-save value		V *10	V *11	V *11	V *11	Minute	0–21474836.47
	Heating capacity-save value		V *10	V *11	V *11	V *11	Minute	0–21474836.47
	Apportioned electric energy		V *10	V *11	V *11	V *11	kWh	0–999999.9999
Target electric energy			V *11	V *11	V *11	kWh	0–214748.3647	
MCP (PI controller)	MCP 1	V *10	V *10	V *11	V *11	V *11	kWh, m3, MJ	0–999999.99
	MCP 2	V *10	V *10	V *11	V *11	V *11	kWh, m3, MJ	0–999999.99
	MCP 3	V *10	V *10	V *11	V *11	V *11	kWh, m3, MJ	0–999999.99
	MCP 4	V *10	V *10	V *11	V *11	V *11	kWh, m3, MJ	0–999999.99
MCT (AI controller)	MCT 1	V	V *2	V *3	V *4		°C, °F, %	-100.0–1000.0
	MCT 2	V	V *2	V *3	V *4		°C, °F, %	-100.0–1000.0
AHC	AHC temperature 1	V	V *2	V *3	V *4		°C, °F	-100.0–1000.0
	AHC temperature 2	V	V *2	V *3	V *4		°C, °F	-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 \*3.

\*5 The values are the maximum values of the electric power consumption obtained in 1-minute increments during each period.

\*6 "Number of Thermo-ON/OFF" is the number of times the unit has gone from Thermo-OFF to Thermo-ON.

\*7 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.

\*8 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.

\*9 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.

\*10 Each value is a cumulative value after the start of operation. If the value exceeds the maximum value, it will wrap around to zero.

\*11 Each value is a total value for each time period (1-day, 1-month, or 1-year).

\*12 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 9-2 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

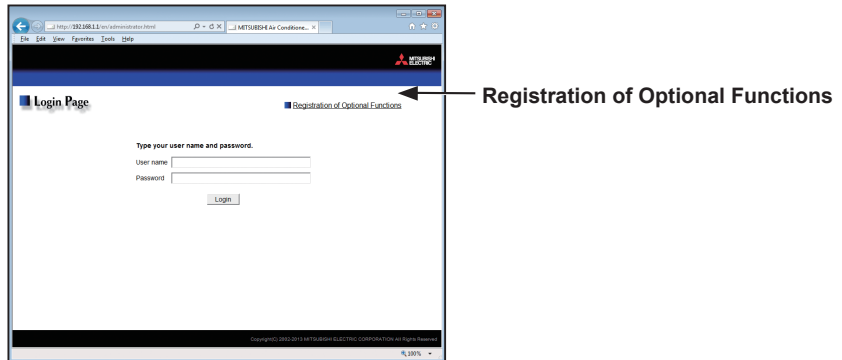
# 10. License registration for optional functions

This chapter explains how to register a license for optional functions.

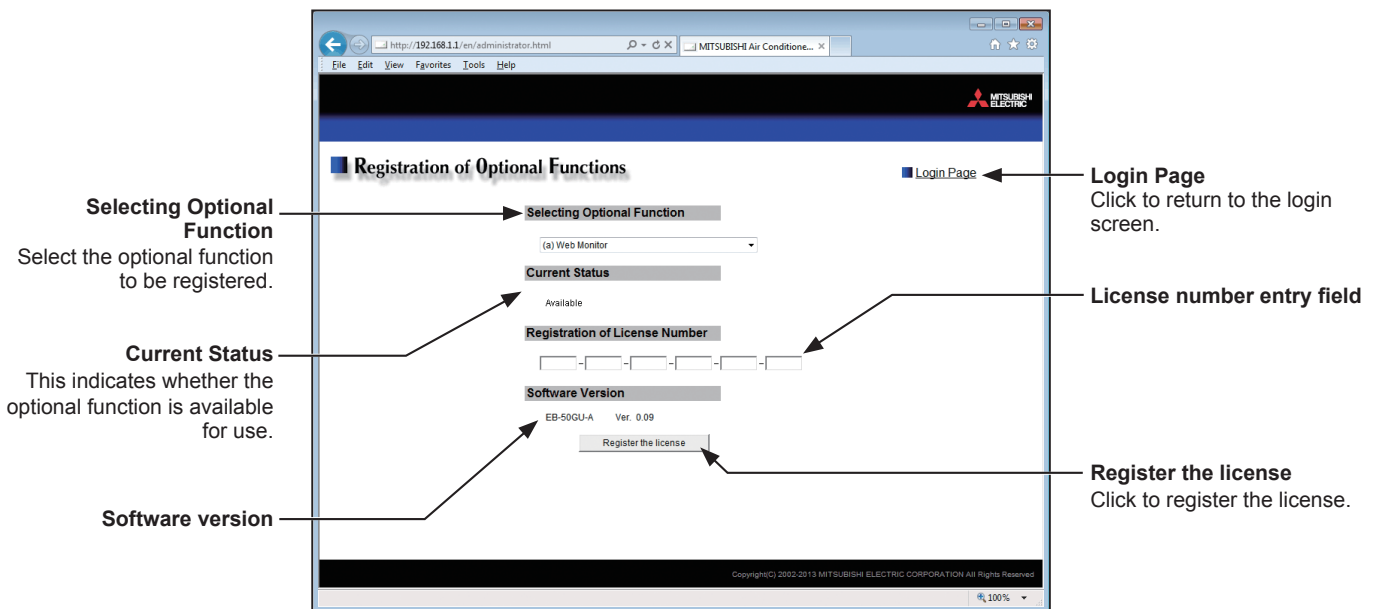
Please ask your dealer for more details on the optional functions and how to purchase a license number.

Note: The current date and time settings are required for license registration. Refer to section 8-1 for date and time settings.

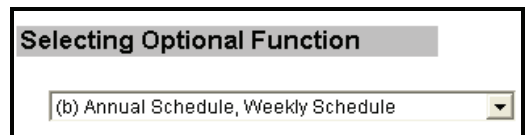
- (1) On the login screen, click [Registration of Optional Functions].



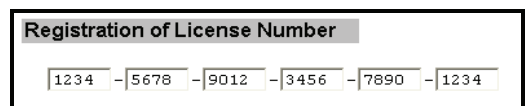
The [Registration of Optional Functions] screen will appear.



- (2) In the [Selecting Optional Function] section, select the optional function to be registered. The current availability will appear in the [Current Status] section.



- (3) In the [License number entry] field, enter the license number and click [Register the license]. In the [Current Status] section, a word "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.









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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:

- Electromagnetic Compatibility Directive 2004/108/EC
- 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.

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