

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



**Instruction Book  
–Web Browser for System Maintenance Engineer–**

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# 1. Introduction

This Instruction Book explains how to monitor and operate the units connected to the AE-200A/AE-50A and AE-200E/AE-50E 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 AE-200A/AE-200E” is referred to as “AE-200.”
- “Centralized Controller AE-50A/AE-50E” is referred to as “AE-50.”
- “Booster unit” and “Water HEX unit” are referred to as “Air To Water (PWFY) unit.”
- “Advanced HVAC CONTROLLER” is referred to as “AHC.”
- “Hot Water Heat Pump unit” is referred to as “HWHP (CAHV) unit.”
- 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 Microsoft® Internet Explorer 10.0 * Java execution environment is required. (Oracle® Java Plug-in Ver. 1.7.0_51) * 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.

## 1-3. Notes on using the integrated centralized control software TG-2000A

If the system is connected to a TG-2000A, make or change all settings from the TG-2000A so that the data in the TG-2000A and AE-200 will match.

Note: Use TG-2000A Ver. 6.50 or later.

## 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

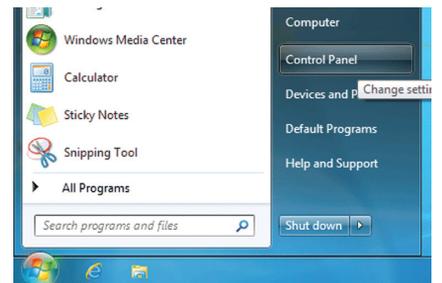
Follow the instructions below to set the PC's IP address for the Web browser to recognize the AE-200 unit. The PC's IP address must have the same network address as the AE-200/AE-50's IP address.

(i.e., AE-200's IP address: [192.168.1.1], PC's IP address: [192.168.1.101])

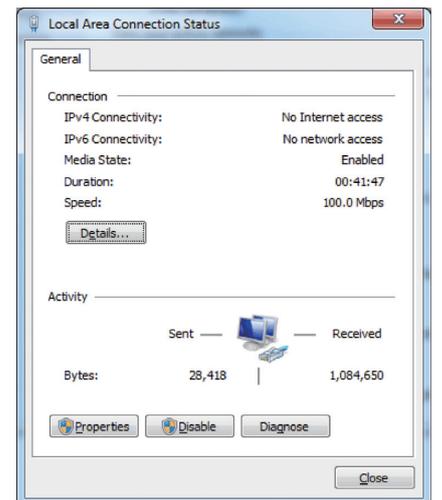
When connecting an AE-200/AE-50 to an existing LAN, consult the system administrator to decide the IP addresses.

Note: When using an AE-200/AE-50-dedicated LAN, it is recommended that the AE-200 unit be assigned an IP address between the range [192.168.1.1] and [192.168.1.40], the AE-50 unit be assigned an IP address between the range [192.168.1.211] and [192.168.1.249], and that the PC connected to the AE-200/AE-50 be assigned an IP address between the range [192.168.1.101] and [192.168.1.150].

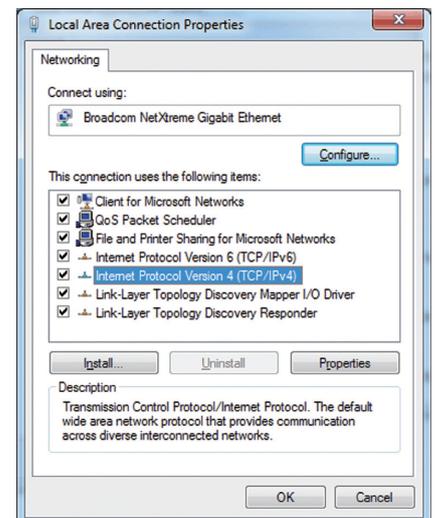
(1) Click [Control Panel] in the Start menu.



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

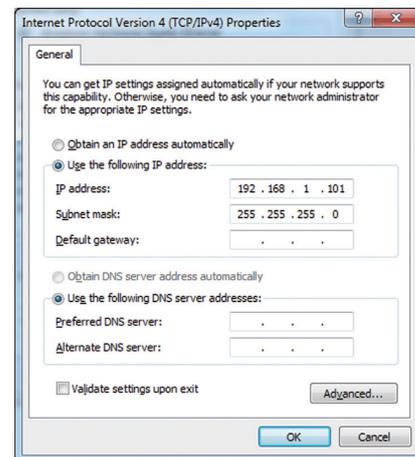


(3) Click [Internet Protocol Version 4 (TCP/IPv4)] to select it, and click [Properties].



- (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

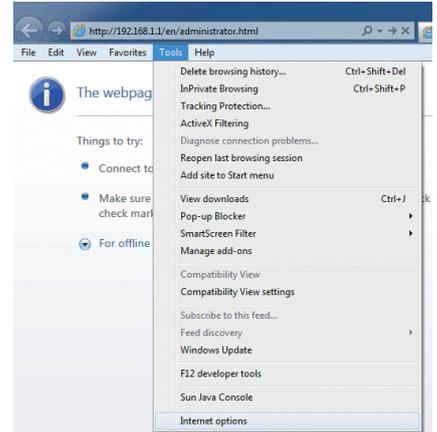
Web browser setting varies with the Internet connection type. See the sections below for how to make Web browser settings for different types of Internet connection.

**To prevent unauthorized access, always use a security device such as a VPN router when connecting the AE-200/AE-50 to the Internet.**

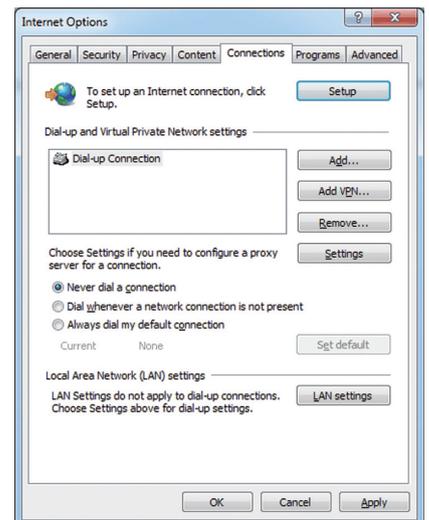
### 2-2-1. No Internet connection

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.

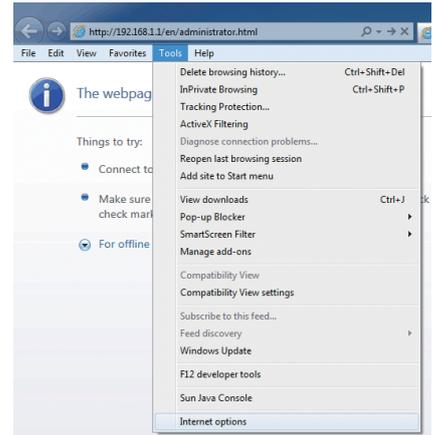


(3) Check the radio button next to [Never dial a connection] in the middle of the window, and click [OK] to close the window.

## 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.

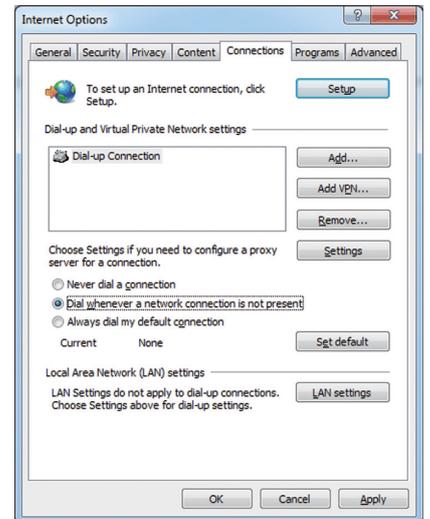
(1) Click [Tools] in the menu bar, then click [Internet options].



(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.

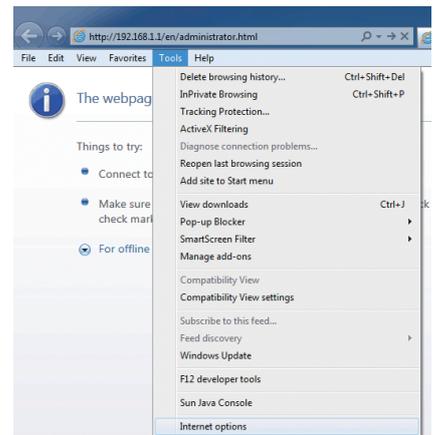
By making these settings, a message will appear asking whether or not to use a dial-up connection when an Internet connection is necessary. Follow the message to connect to the Internet.



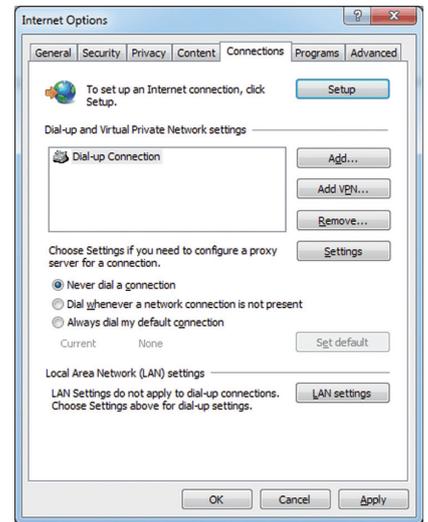
## 2-2-3. Connecting to the Internet via proxy server using an existing LAN

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].

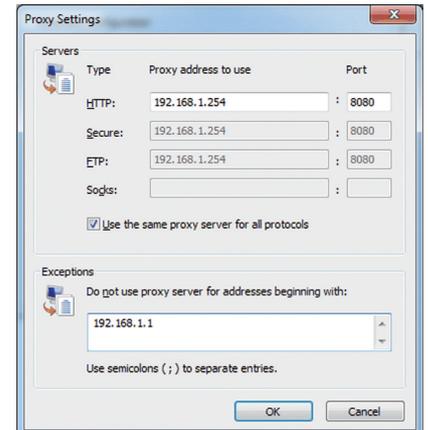


- (5) In the [Local Area Network (LAN) Settings] window, check [Bypass proxy server for local addresses], and click [Advanced].



- (6) In the [Proxy Settings] window, enter the AE-200/AE-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 AE-200/AE-50 units, enter their addresses (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 each AE-200/AE-50]/administrator.html**  
Press the [Enter] key. A login screen will appear.

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

Note: Default IP address of AE-200 and AE-50 is [192.168.1.1].  
When one or more AE-50 controllers are connected, none of their IP addresses should overlap. The recommended IP address ranges are as follows.

AE-200: Between [192.168.1.1] and [192.168.1.40]

AE-50: Between [192.168.1.211] and [192.168.1.249]

Note: Log in to the AE-200 or AE-50 Web browser respectively to monitor or operate the units that are under the control of AE-200 or AE-50. The Web browser cannot be switched between the AE-200 and the AE-50.

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>

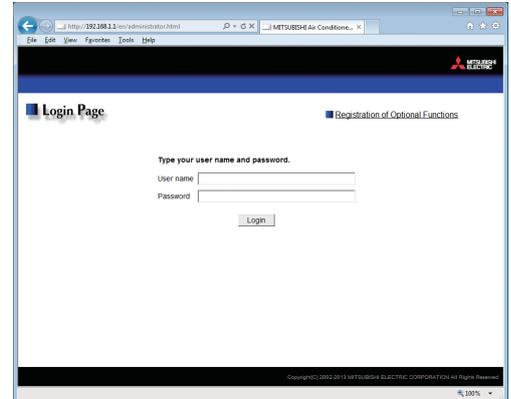
1. Click [Control Panel] from the Start menu.
2. Click the [Java] icon to launch the Java Control Panel.
3. On the [General] tab, click [Settings] in the [Temporary Internet Files] section.
4. Click [Delete Files].
5. In the [Delete Files and Applications] window, click [OK].

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 each AE-200/AE-50]/zh/administrator.html
English	http://[IP address of each AE-200/AE-50]/en/administrator.html
French	http://[IP address of each AE-200/AE-50]/fr/administrator.html
German	http://[IP address of each AE-200/AE-50]/de/administrator.html
Italian	http://[IP address of each AE-200/AE-50]/it/administrator.html
Japanese	http://[IP address of each AE-200/AE-50]/ja/administrator.html
Portuguese	http://[IP address of each AE-200/AE-50]/pt/administrator.html
Russian	http://[IP address of each AE-200/AE-50]/ru/administrator.html
Spanish	http://[IP address of each AE-200/AE-50]/es/administrator.html

Note: You can add the web page address to your Favorites on the login screen 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 each AE-200/AE-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 each AE-200/AE-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.

Note: When one or more AE-50 controllers are connected, log in to the AE-50 Web browser to monitor or operate the units that are under the control of AE-50 controllers. The Web browser cannot be switched between the AE-200 and the AE-50.

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

AE-200/AE-50 can encrypt communication data using HTTPS (SSL).

When connecting the AE-200/AE-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.

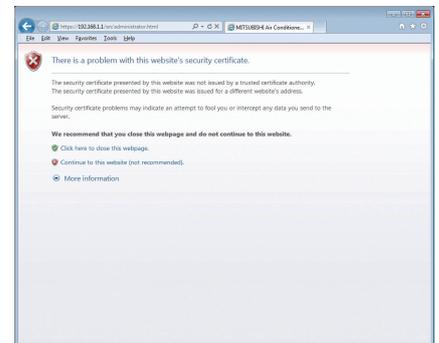
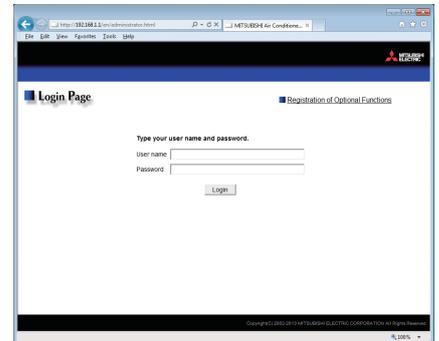
**https://[IP Address of each AE-200/AE-50]/administrator.html**

Note: If the IP address of the AE-200/AE-50 is [192.168.1.1], the web page address is [https://192.168.1.1/administrator.html].

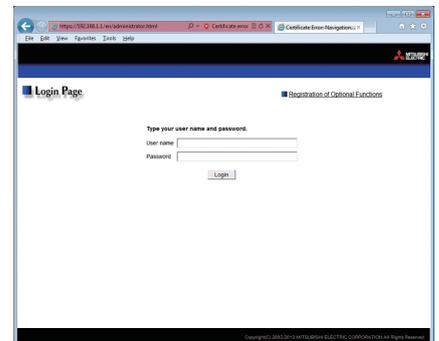
The encrypted data communication will begin, and the Login screen will appear.

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

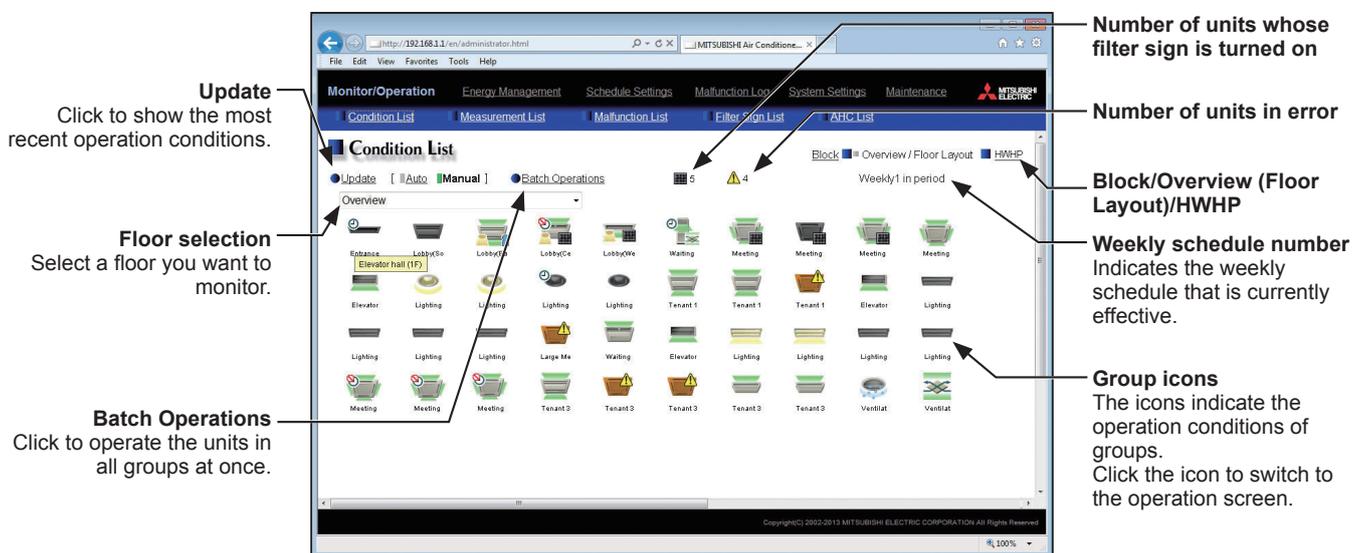
This section explains how to monitor the operation conditions of all groups collectively (see section 4-1-1) or groups per block (see section 4-1-2), how to monitor the operation conditions of HWHP (CAHV) unit groups (see section 4-1-3), and also explains how to operate each group (see section 4-1-4), groups per block (see section 4-1-5), or all groups collectively (see section 4-1-6).

After login, the Overview (Floor Layout) 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.

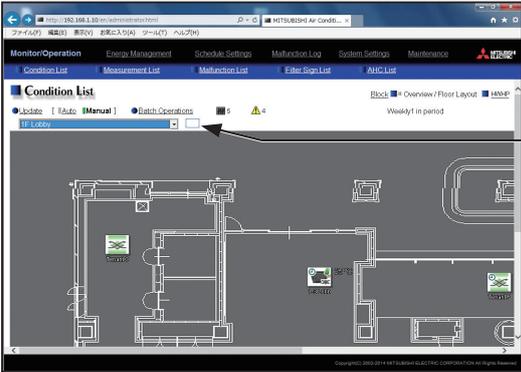
To access the Condition List screen from the other screen, click [Monitor/Operation] in the menu bar, and then click [Condition List].

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

On the Overview (Floor Layout) 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 (Floor Layout)/HWHP	Click [Block] to display the operation conditions of groups per block, click [Overview (Floor Layout)] to display the operation conditions of all groups, and click [HWHP] to display the operation conditions of HWHP (CAHV) unit 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 4-1-6.)

Item	Description
Floor selection	<p>If Floor Layout settings have been made on the AE-200's LCD, preset floors are available for selection. Select a floor you want to monitor.</p> <p>Note: Floor Layout settings can be made only on the AE-200's LCD. Refer to the AE-200 Instruction Book for how to make Floor Layout settings and how to read floor layout plans. If the floor layout is changed on the AE-200's LCD, restart the Web browser to update the floor layout.</p> <p>Note: On a high-resolution display, the whole floor can be displayed by increasing the browser display size.</p> <p>Note: After clicking a group icon, the operation settings screen of the group will appear. Scroll up to the left top of the screen to display the operation settings area.</p>  <p>The font color (black or white) of the group names can be switched.</p>
Number of units whose filter sign is turned on *1	<p>The number of units under the control of AE-200/AE-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 AE-200/AE-50 that are currently in error will appear. Clicking “” will bring up the Malfunction List screen. (See section 4-3.)</p>

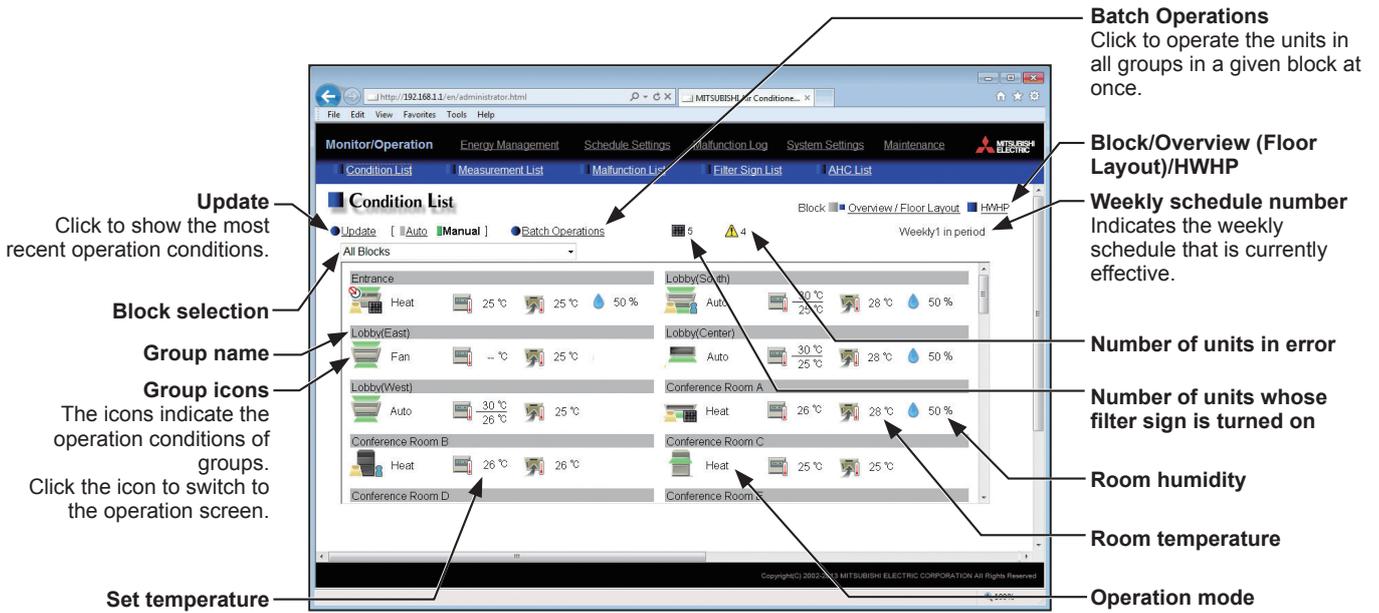
\*1 The item will not appear if the number of units is “0.”

Item	Description								
Group icons	<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"> <tr> <td data-bbox="406 293 667 338">ON</td> <td data-bbox="667 293 922 338">OFF</td> <td data-bbox="922 293 1182 338">Error</td> <td data-bbox="1182 293 1442 338">Filter sign ON *1</td> </tr> <tr> <td data-bbox="406 338 667 439"></td> <td data-bbox="667 338 922 439"></td> <td data-bbox="922 338 1182 439"></td> <td data-bbox="1182 338 1442 439"></td> </tr> </table>	ON	OFF	Error	Filter sign ON *1				
	ON	OFF	Error	Filter sign ON *1					
									
<table border="1"> <tr> <td data-bbox="406 461 667 528">Interlocked LOSSNAY ON *2 *8</td> <td data-bbox="667 461 922 528">Interlocked LOSSNAY OFF *3 *8</td> <td data-bbox="922 461 1182 528">Schedule set *4</td> <td data-bbox="1182 461 1442 528">Schedule disabled</td> </tr> <tr> <td data-bbox="406 528 667 629"></td> <td data-bbox="667 528 922 629"></td> <td data-bbox="922 528 1182 629"></td> <td data-bbox="1182 528 1442 629"></td> </tr> </table>	Interlocked LOSSNAY ON *2 *8	Interlocked LOSSNAY OFF *3 *8	Schedule set *4	Schedule disabled					
Interlocked LOSSNAY ON *2 *8	Interlocked LOSSNAY OFF *3 *8	Schedule set *4	Schedule disabled						
									
<table border="1"> <tr> <td data-bbox="406 651 667 707">Energy-saving ON *5</td> <td data-bbox="667 651 922 707">Setback ON *11</td> <td data-bbox="922 651 1182 707">Starting up *12</td> <td data-bbox="1182 651 1442 707">Occupied/Vacant *6*7*8</td> </tr> <tr> <td data-bbox="406 707 667 819"></td> <td data-bbox="667 707 922 819"></td> <td data-bbox="922 707 1182 819"></td> <td data-bbox="1182 707 1442 819"></td> </tr> </table>	Energy-saving ON *5	Setback ON *11	Starting up *12	Occupied/Vacant *6*7*8					
Energy-saving ON *5	Setback ON *11	Starting up *12	Occupied/Vacant *6*7*8						
									
<table border="1"> <tr> <td data-bbox="406 842 667 887">Bright/Dark *9*10*11</td> <td data-bbox="667 842 922 887">HOLD ON *13</td> </tr> <tr> <td data-bbox="406 887 667 981"></td> <td data-bbox="667 887 922 981"></td> </tr> </table>	Bright/Dark *9*10*11	HOLD ON *13							
Bright/Dark *9*10*11	HOLD ON *13								
									
	<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> <p>*12 The "Starting up" icon will stay when the unit cannot be recognized after startup. Check for proper connection of the air conditioning unit and proper group settings.</p> <p>*13 The Hold function can be used on the AE-200A/AE-50A, but not on the AE-200E/AE-50E.</p>								

Item	Description															
Group icons	<p>(2) LOSSNAY unit (ventilator) group</p> <table border="1" data-bbox="406 203 1442 342"> <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="406 367 1182 506"> <tr> <td>Schedule set</td> <td>Energy-saving ON *2</td> <td>HOLD ON</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	Energy-saving ON *2	HOLD ON				
	ON	OFF	Error	Filter sign ON *1												
																
	Schedule set	Energy-saving ON *2	HOLD ON													
																
<p>(3) Air To Water (PWFY) unit group and HWHP (CAHV) unit group</p> <table border="1" data-bbox="406 683 1442 822"> <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="406 846 1442 1014"> <tr> <td>Schedule disabled</td> <td>Energy-saving ON *1</td> <td>Water temperature display *2</td> <td>HOLD ON</td> </tr> <tr> <td></td> <td></td> <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. This icon will not appear for the HWHP (CAHV) unit groups.</p> <p>*2 The "Water temperature display" icon will not appear for the HWHP (CAHV) unit groups.</p>	ON	OFF	Error	Schedule set					Schedule disabled	Energy-saving ON *1	Water temperature display *2	HOLD ON				
ON	OFF	Error	Schedule set													
																
Schedule disabled	Energy-saving ON *1	Water temperature display *2	HOLD ON													
																
<p>(4) General equipment group</p> <table border="1" data-bbox="406 1164 1442 1303"> <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="406 1328 925 1467"> <tr> <td>Schedule disabled</td> <td>HOLD ON</td> </tr> <tr> <td></td> <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					Schedule disabled	HOLD ON						
ON	OFF	Error	Schedule set													
																
Schedule disabled	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 style="display: flex; justify-content: space-around;"> <div data-bbox="387 1682 807 1960">  <p>Icons with group names</p> </div> <div data-bbox="847 1682 1267 1960">  <p>Icons without group names</p> </div> </div>															

### 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 (Floor Layout)/HWHP	Click [Block] to display the operation conditions of groups per block, click [Overview (Floor Layout)] to display the operation conditions of all groups, and click [HWHP] to display the operation conditions of HWHP (CAHV) unit 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 4-1-5.)
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 humidity sensor on the ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA) will appear. Note: If a ME remote controller (North America: PAR-U01MEDU, Europe: PAR-U02MEDA) is connected to the group and the built-in humidity sensor is enabled, the reading of the sensor will appear.
Number of units whose filter sign is turned on *1	The number of units under the control of AE-200/AE-50 whose filter sign is currently turned on will appear. Clicking “  ” 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.

Item	Description
Number of units in error *1	The number of units under the control of AE-200/AE-50 that are currently in error will appear. Clicking “▲” will bring up the Malfunction List screen. (See section 4-3.)

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

### 4-1-3. Checking the operation conditions of HWHP (CAHV) unit groups

On the Condition List screen, click the [HWHP] button to display the operation conditions of the HWHP (CAHV) unit groups.

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

The screenshot shows the 'Condition List' 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 tabs for 'Condition List', 'Measurement List', 'Malfunction List', 'Filter Sign List', and 'AHC List'. The main content area displays a table of unit groups with columns for Group name, Operation mode, and various temperatures (Representative, Outdoor, Inlet, Outlet). A 'Batch Operations' button is visible at the top right of the table area. A 'Weekly schedule number' is also indicated.

**Update**  
Click to show the most recent operation conditions.

**Group name**  
**HWHP (CAHV) unit group icons**  
The icons indicate the operation conditions of groups. Click the icon to switch to the operation screen.

**Operation mode**

**Set temperature**

**Batch Operations**  
Click to operate the units in all HWHP (CAHV) unit groups at once.

**Block/Overview (Floor Layout)/HWHP**

**Weekly schedule number**  
Indicates the weekly schedule that is currently effective.

**Fan mode**

**Temperature**

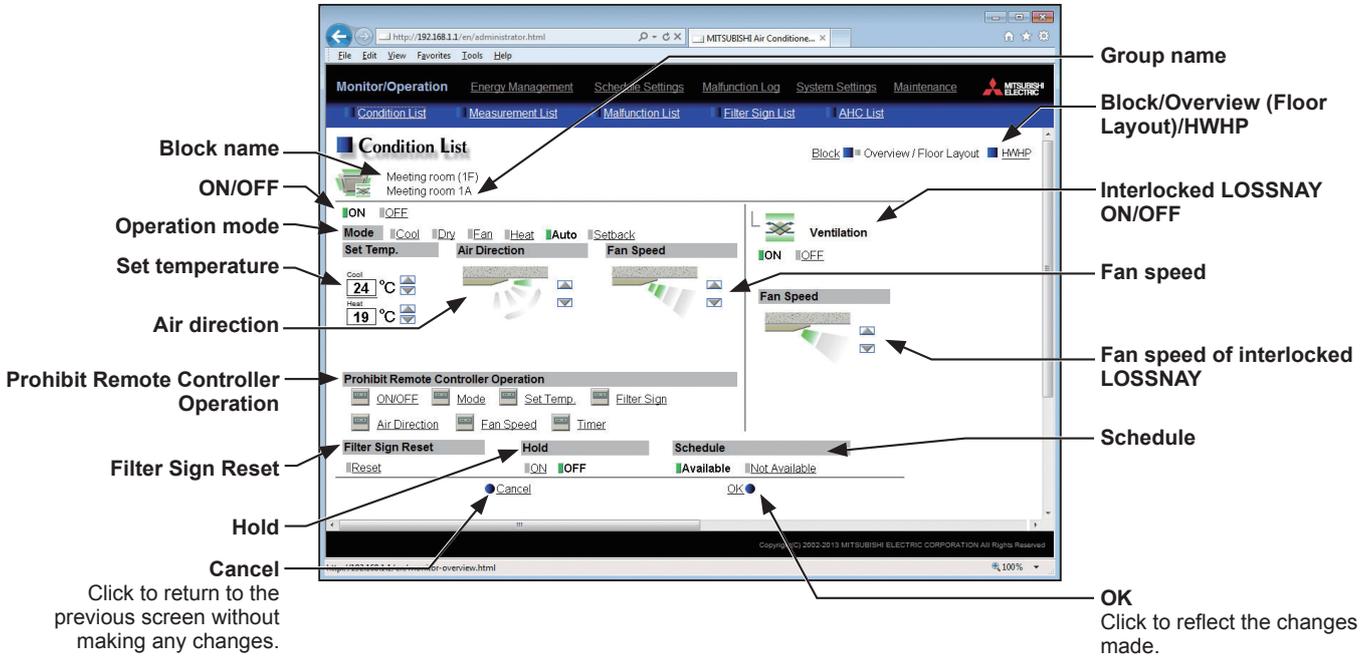
Item	Description
Block/Overview (Floor Layout)/HWHP	Click [Block] to display the operation conditions of groups per block, click [Overview (Floor Layout)] to display the operation conditions of all groups, and click [HWHP] to display the operation conditions of HWHP (CAHV) unit groups.
Update	Click to 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 HWHP (CAHV) unit groups at once.
HWHP (CAHV) unit 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: The temperature unit (°C or °F) can be selected on the Basic System settings screen, accessible via the Web Browser for Initial Settings.
Temperature	The representative water temperature, outdoor temperature, inlet water temperature, and outlet water temperature will appear. Note: When there is a communication error, the temperature value will be “--.” Note: The temperature unit (°C or °F) can be selected on the Basic System settings screen, accessible via the Web Browser for Initial Settings.
Fan mode	The fan mode of the group will appear.

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

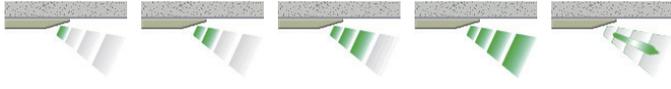
In the Overview (Floor Layout) display of the Condition List screen, click one of the group icons to display its operation settings screen, which shows the current operation conditions. Change the desired settings and click [OK] to reflect the changes. Click [Cancel] to return to the previous screen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

Note: Only the ON/OFF operation and the “Schedule” setting are 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.

Note: To operate an HWHP (CAHV) unit group, click the icon of the group on the HWHP display of the Condition List screen.



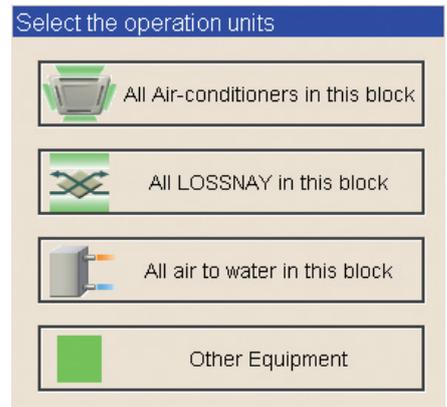
Item	Description
ON/OFF	Click [ON] or [OFF] to turn on or off the units in a given group. Note: Switching this switch will turn on or off the LOSSNAY unit as well that is interlocked with the operation of indoor units in the group. To turn on or off the LOSSNAY unit only, use the “Interlocked LOSSNAY 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 HWHP (CAHV) unit: Heating, Heating ECO, Hot Water, Anti-freeze Note: Only the operation modes available for the unit model will appear. Note: The Setback mode can be selected on the AE-200A/AE-50A, but not on the AE-200E/AE-50E.
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: When the indoor units that support the dual set point function and the indoor units that do not support the dual set point function exist in the same group, only one set temperature can be set in the AUTO mode. 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.  <div style="display: flex; justify-content: space-around; text-align: center;"> <div>(Mid 3) </div> <div>(Mid 2) </div> <div>(Mid 1) </div> <div>(Mid 0) </div> <div>(Horizontal) </div> <div>(Swing) </div> <div>(Auto) </div> </div> 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>
Fan Mode *1	<p>This item will appear only on the operation settings screen for HWHP (CAHV) unit groups. The fan can be set to keep rotating even while the unit is stopped to avoid snow accumulation on the fan guard during the winter. Select [Normal] to stop the fan while the unit is stopped. Select [Snow] to operate the fan even while the unit is stopped.</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, Filter sign reset, Air Direction, Fan Speed, and Timer. 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. 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. 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. 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>
Schedule	<p>Click [Available] or [Not Available] to enable/disable the scheduled operations. When the Schedule is enabled, the scheduled operations are disabled.</p> <p>Note: The operations that have been scheduled on the remote controller will not be disabled.</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 on 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 can be used on the AE-200A/AE-50A, but not on the AE-200E/AE-50E.</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 LOSSNAY 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.

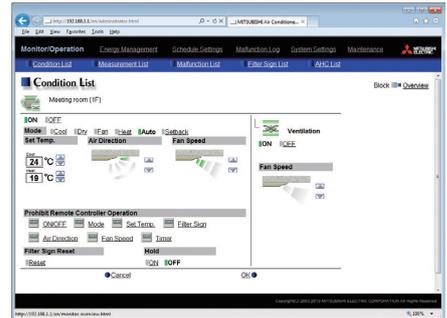
#### 4-1-5. Operating the units in a given block

- (1) 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.



- (2) 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.

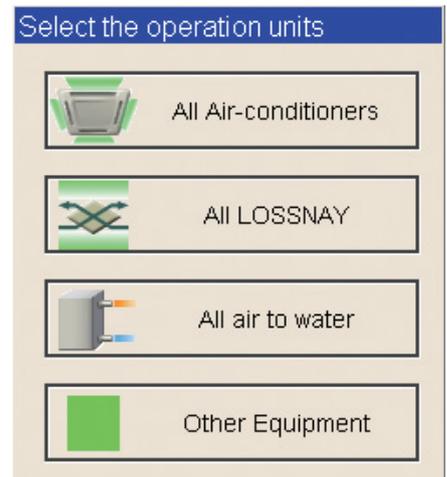
Note: When the filter sign is reset on this screen, the cumulative operation time of all units will be reset, irrespective of whether or not the filter sign was triggered. Reset the filter sign on this screen when the filters of all units were cleaned at once.



#### 4-1-6. Operating the units in all groups

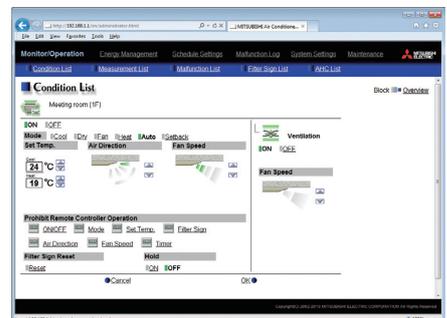
- (1) In the Overview (Floor Layout) display of the Condition List screen, click [Batch Operations]. If air conditioner group, LOSSNAY unit (ventilator) group, Air To Water (PWFY) unit group, and general equipment group exist together in the same system, a screen to select a group type will appear. Click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

Note: To operate all HWHP (CAHV) unit groups, click [Batch Operations] in the HWHP display of the Condition List screen.



- (2) 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.



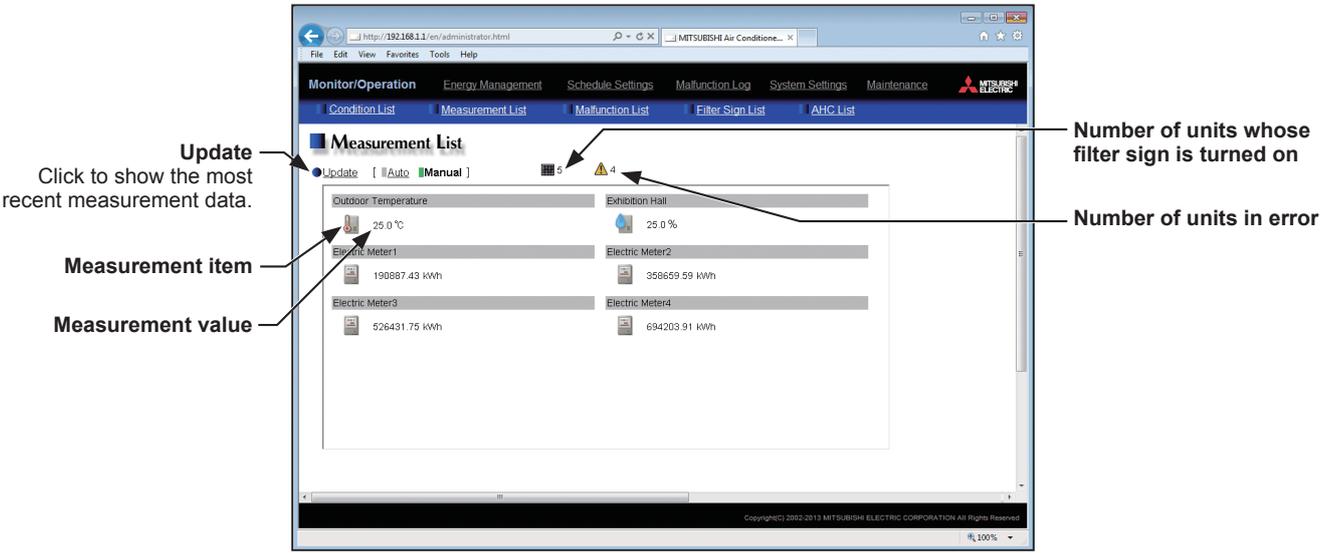
## 4-2. Measurement List

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 pulse-output metering devices are required to measure the electric, water, heat, and gas consumptions.

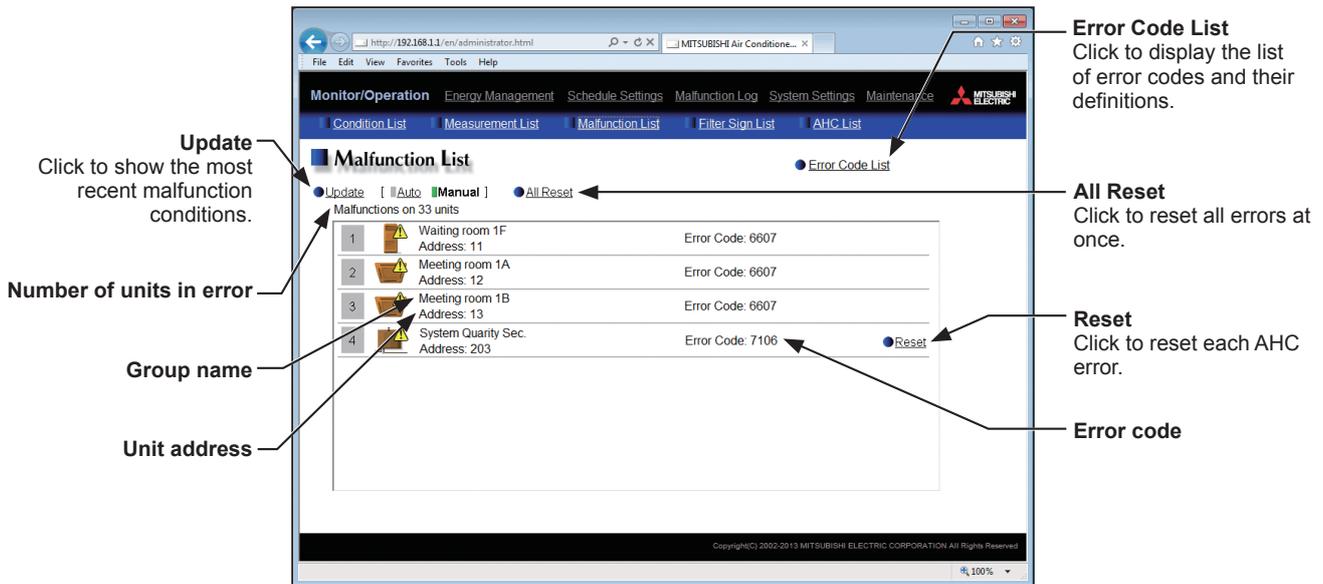


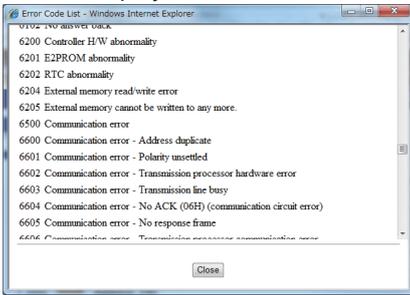
Item	Description																
Update	Click to show the most recent measurement data. When [Auto] is selected, the measurement data is updated automatically every minute.																
Measurement value	<p>The current measurement values will appear.</p> <p>Note: The following icons are used to indicate 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.</p> <table border="1"> <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 AE-200/AE-50 whose filter sign is currently turned on will appear. Clicking "" 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 AE-200/AE-50 that are currently in error will appear. Clicking "" 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.



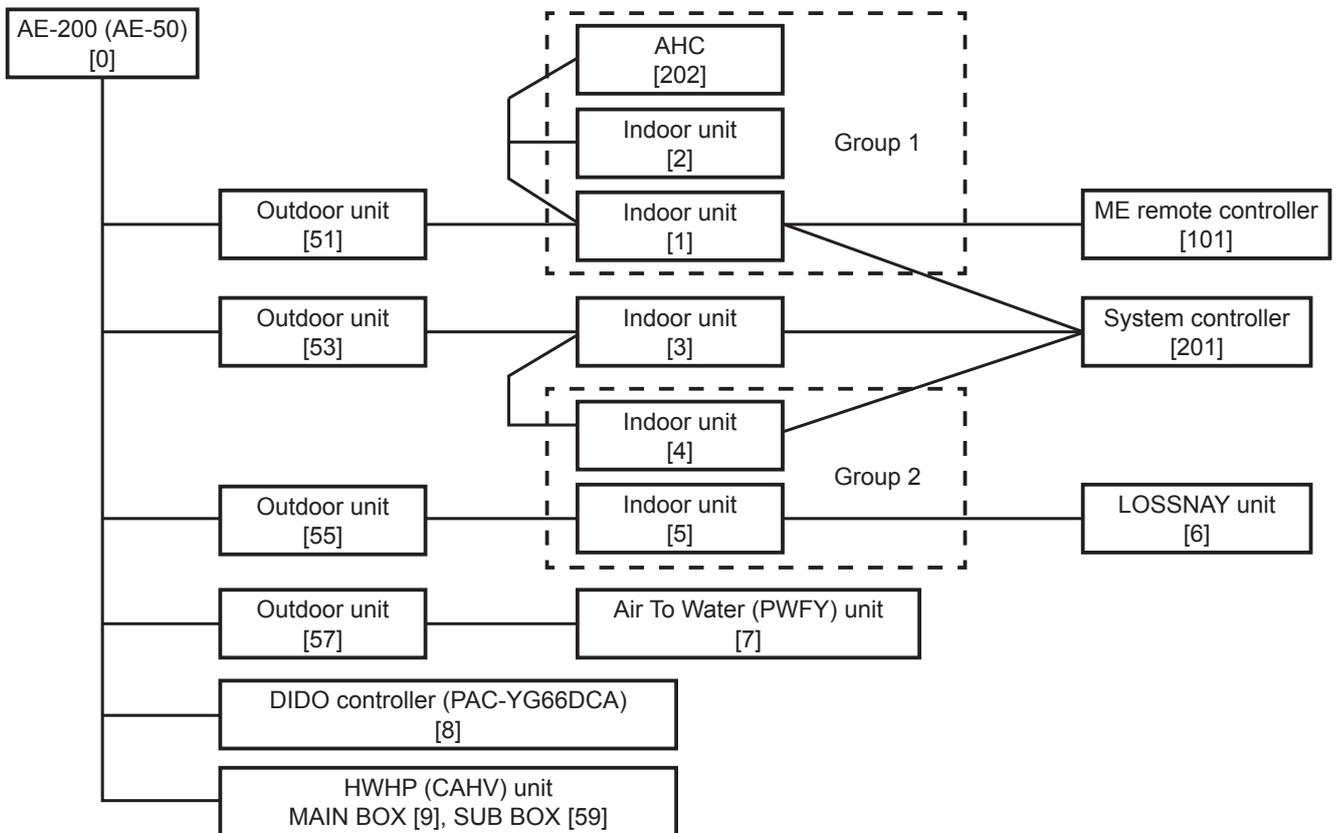
Item	Description
Update	Click to show the most recent malfunction conditions. When [Auto] is selected, the malfunction conditions are updated automatically every minute.
All Reset	Click to reset all errors at once.
Error Code List	Click to display the list of error codes and their definitions. 
Number 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 an 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
AE-200 (AE-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
HWHP (CAHV) unit	None

Example of units in error and the units that will stop

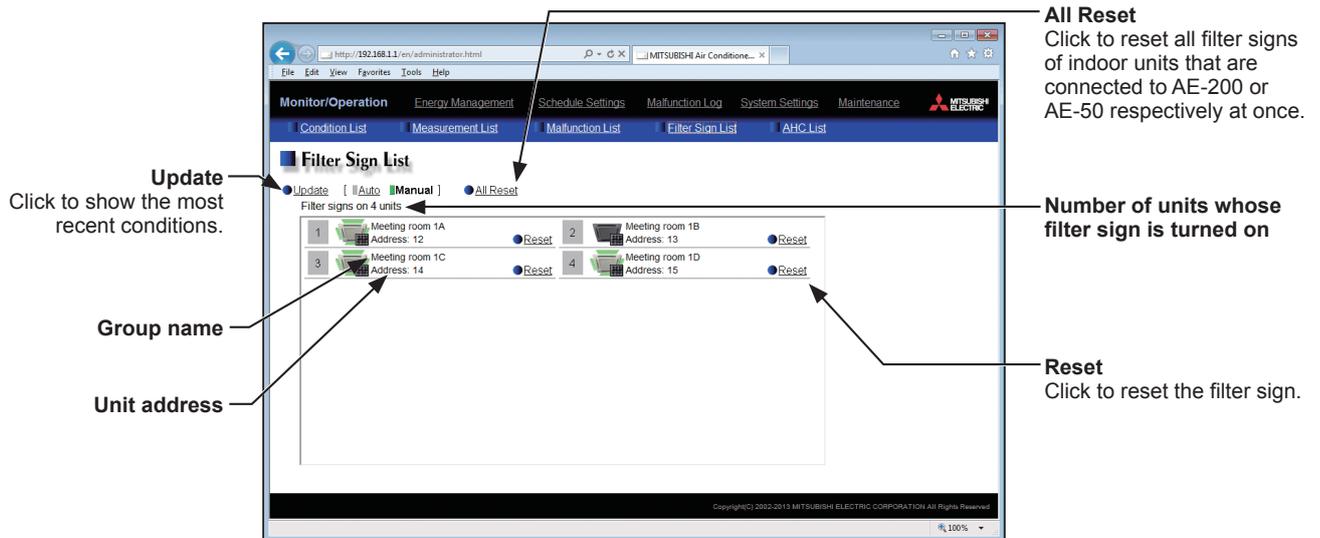


Units in error	Units that will stop
AE-200 (AE-50)	None
Outdoor unit [51]	Indoor unit [1], Indoor unit [2]
Outdoor unit [53]	Indoor unit [3], Indoor unit [4], Indoor unit [5]
Outdoor unit [57]	Air To Water (PWFY) unit [7]
Indoor unit [1]	Indoor unit [1], Indoor unit [2]
Indoor unit [3]	Indoor unit [3]
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
HWHP (CAHV) unit [9] [59]	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.

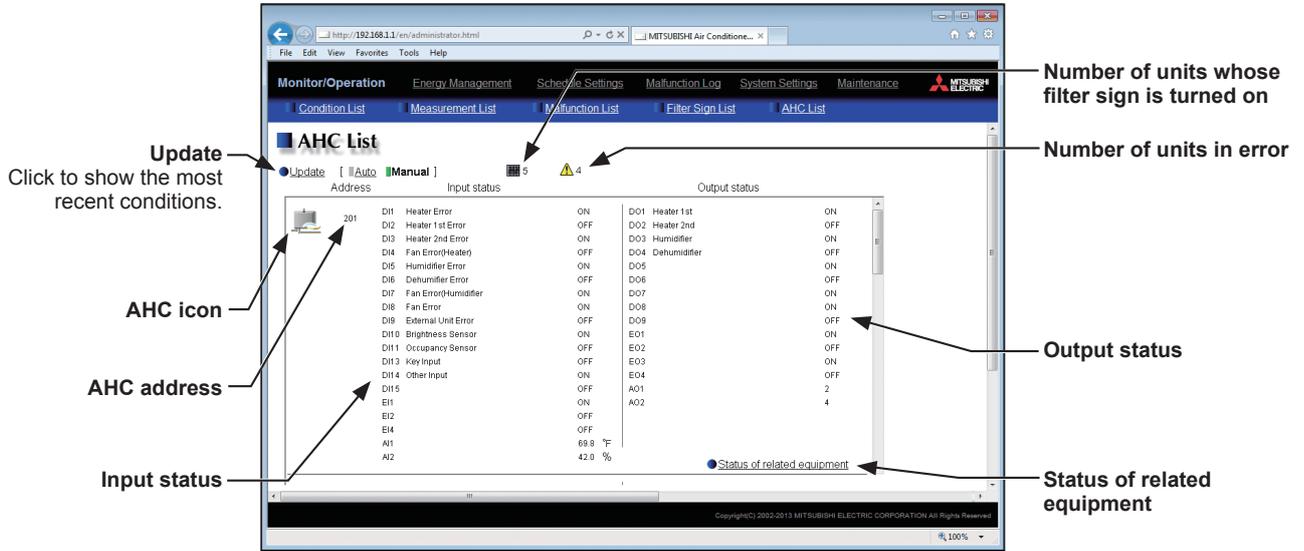


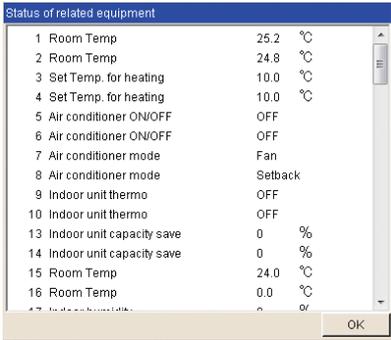
Item	Description
Update	Click to show the most recent conditions. When [Auto] is selected, the conditions are updated automatically every minute.
All Reset	Click to reset all filter signs of indoor units that are connected to AE-200 or AE-50 respectively at once.
Number of units whose filter sign is 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. * DI1–DI15 (Digital input), EI1–EI4 (Extended digital input), AI1–AI8 (Analog input) Note: The status of the unused ports will not appear. Note: If a communication error occurs with AHC, no port information will appear.
Output status	[Output port code * + Output port name + Output status] will appear. * DO1–DO9 (Digital output), EO1–EO4 (Extended digital output), AO1–AO2 (Analog output) Note: The status of the unused ports will not appear. Note: If a communication error occurs with AHC, no port information will appear.
Status of related equipment	Click to display the status of the equipment that are used to control the equipments that are connected to the AHC. 

Item	Description
Number of units whose filter sign is turned on *1	<p>The number of units under the control of AE-200/AE-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 AE-200/AE-50 that are currently in error will appear.</p> <p>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 AE-200/AE-50 was powered on will appear in the graph. The data for the period during which the AE-200/AE-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 2 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.

Item	Description																																														
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.																																														
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> <div style="text-align: center;">  <p>Display items for bar graph</p> </div> <table border="1" data-bbox="486 432 1399 943"> <thead> <tr> <th data-bbox="486 432 678 504" rowspan="2">Display target</th> <th data-bbox="678 432 987 504" rowspan="2">Display item</th> <th colspan="3" data-bbox="987 432 1399 465">Display range</th> </tr> <tr> <th data-bbox="987 465 1123 504">Address</th> <th data-bbox="1123 465 1260 504">Group</th> <th data-bbox="1260 465 1399 504">Block</th> </tr> </thead> <tbody> <tr> <td data-bbox="486 504 678 689" rowspan="5">Indoor unit</td> <td data-bbox="678 504 987 542">Electric Energy *3</td> <td data-bbox="987 504 1123 542">V *1</td> <td data-bbox="1123 504 1260 542">V *1</td> <td data-bbox="1260 504 1399 542">V *1</td> </tr> <tr> <td data-bbox="678 542 987 580">Fan operation time *4</td> <td data-bbox="987 542 1123 580">V *1</td> <td data-bbox="1123 542 1260 580">V *1</td> <td data-bbox="1260 542 1399 580">-</td> </tr> <tr> <td data-bbox="678 580 987 618">Thermo-ON time (Total) *4</td> <td data-bbox="987 580 1123 618">V *1</td> <td data-bbox="1123 580 1260 618">V *1</td> <td data-bbox="1260 580 1399 618">-</td> </tr> <tr> <td data-bbox="678 618 987 656">Thermo-ON time (Cool) *4</td> <td data-bbox="987 618 1123 656">V *1</td> <td data-bbox="1123 618 1260 656">V *1</td> <td data-bbox="1260 618 1399 656">-</td> </tr> <tr> <td data-bbox="678 656 987 689">Thermo-ON time (Heat) *4</td> <td data-bbox="987 656 1123 689">V *1</td> <td data-bbox="1123 656 1260 689">V *1</td> <td data-bbox="1260 656 1399 689">-</td> </tr> <tr> <td data-bbox="486 689 678 943" rowspan="4">MCP (PI controller)</td> <td data-bbox="678 689 987 752">Name of the metering device 1</td> <td data-bbox="987 689 1123 752">V *2</td> <td data-bbox="1123 689 1260 752">-</td> <td data-bbox="1260 689 1399 752">-</td> </tr> <tr> <td data-bbox="678 752 987 815">Name of the metering device 2</td> <td data-bbox="987 752 1123 815">V *2</td> <td data-bbox="1123 752 1260 815">-</td> <td data-bbox="1260 752 1399 815">-</td> </tr> <tr> <td data-bbox="678 815 987 878">Name of the metering device 3</td> <td data-bbox="987 815 1123 878">V *2</td> <td data-bbox="1123 815 1260 878">-</td> <td data-bbox="1260 815 1399 878">-</td> </tr> <tr> <td data-bbox="678 878 987 943">Name of the metering device 4</td> <td data-bbox="987 878 1123 943">V *2</td> <td data-bbox="1123 878 1260 943">-</td> <td data-bbox="1260 878 1399 943">-</td> </tr> </tbody> </table> <p style="text-align: right; margin-right: 20px;">V: Item that can be displayed in the graph</p> <p>*1 "Energy Management License Pack" is required.</p> <p>*2 If "Energy Management License Pack" has not been registered, only [Day] is available for selection as a Date range. To select [Month] or [Year], "Energy Management License Pack" is required.</p> <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 ON.</li> <li>• [Thermo-ON time (Total/Cool/Heat)] is the cumulative duration of time in which the indoor unit and the compressor are ON. (Cool: when the Cool mode is selected; Heat: when the Heat mode is selected; Total: when either mode is selected)</li> </ul>	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	-	-
Display target	Display item			Display range																																											
		Address	Group	Block																																											
Indoor unit	Electric Energy *3	V *1	V *1	V *1																																											
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Item	Description																																												
Display item	<p style="text-align: center;"> <u>Display items for line graph</u></p> <table border="1" data-bbox="496 241 1390 752"> <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; margin-right: 20px;">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="453 1205 1353 1393"> <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> (Yellow)</td> <td> (Brown)</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.</p> <p>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	 (Yellow)	 (Brown)		 Line graph	 (Orange)	 (Blue)	 (Red)																																
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 Line graph	 (Orange)	 (Blue)	 (Red)																																										

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="421 1032 667 1066">File-name contents</th> <th colspan="2" data-bbox="667 1032 1437 1066">Format</th> </tr> </thead> <tbody> <tr> <td data-bbox="421 1066 667 1099">[yyyy]</td> <td colspan="2" data-bbox="667 1066 1437 1099">The year specified in the [Date to display the data] field</td> </tr> <tr> <td data-bbox="421 1099 667 1133">[mm]</td> <td colspan="2" data-bbox="667 1099 1437 1133">The month specified in the [Date to display the data] field</td> </tr> <tr> <td data-bbox="421 1133 667 1167">[dd]</td> <td colspan="2" data-bbox="667 1133 1437 1167">The date specified in the [Date to display the data] field</td> </tr> <tr> <td data-bbox="421 1167 667 1290" rowspan="3">[Display target]</td> <td data-bbox="667 1167 847 1200">Address</td> <td data-bbox="847 1167 1437 1200">"A" + M-NET address (000–250) + "_" + Sensor No. (00–04)</td> </tr> <tr> <td data-bbox="667 1200 847 1234">Group</td> <td data-bbox="847 1200 1437 1234">"G" + Group No. (001–050) + "_" + "00"</td> </tr> <tr> <td data-bbox="667 1234 847 1290">Block</td> <td data-bbox="847 1234 1437 1290">"B" + Block No. (001–050, 999 *1) + "_" + "00"</td> </tr> <tr> <td data-bbox="421 1290 667 1323">[YYYY]</td> <td colspan="2" data-bbox="667 1290 1437 1323">The year specified in the [Comparison date] field</td> </tr> <tr> <td data-bbox="421 1323 667 1357">[MM]</td> <td colspan="2" data-bbox="667 1323 1437 1357">The month specified in the [Comparison date] field</td> </tr> <tr> <td data-bbox="421 1357 667 1391">[DD]</td> <td colspan="2" data-bbox="667 1357 1437 1391">The date specified in the [Comparison date] field</td> </tr> <tr> <td data-bbox="421 1391 667 1514" rowspan="3">[Comparison target]</td> <td data-bbox="667 1391 847 1424">Address</td> <td data-bbox="847 1391 1437 1424">"A" + M-NET address (000–250) + "_" + Sensor No. (00–04)</td> </tr> <tr> <td data-bbox="667 1424 847 1458">Group</td> <td data-bbox="847 1424 1437 1458">"G" + Group No. (001–050) + "_" + "00"</td> </tr> <tr> <td data-bbox="667 1458 847 1514">Block</td> <td data-bbox="847 1458 1437 1514">"B" + Block No. (001–050, 999 *1) + "_" + "00"</td> </tr> <tr> <td data-bbox="421 1514 667 1794" rowspan="7">[Bar graph type]</td> <td colspan="2" data-bbox="667 1514 1437 1547">B01: Electric energy (Indoor unit)</td> </tr> <tr> <td colspan="2" data-bbox="667 1547 1437 1581">B02: Fan operation time</td> </tr> <tr> <td colspan="2" data-bbox="667 1581 1437 1615">B03: Thermo-ON time (Total)</td> </tr> <tr> <td colspan="2" data-bbox="667 1615 1437 1648">B04: Thermo-ON time (Cool)</td> </tr> <tr> <td colspan="2" data-bbox="667 1648 1437 1682">B05: Thermo-ON time (Heat)</td> </tr> <tr> <td colspan="2" data-bbox="667 1682 1437 1715">B06: MCP electric energy</td> </tr> <tr> <td colspan="2" data-bbox="667 1715 1437 1749">B08: MCP water quantity</td> </tr> <tr> <td colspan="2" data-bbox="667 1749 1437 1783">B09: MCP heat quantity</td> </tr> <tr> <td data-bbox="421 1794 667 2051" rowspan="7">[Line graph type]</td> <td colspan="2" data-bbox="667 1794 1437 1827">L01: Set temperature (Cool)</td> </tr> <tr> <td colspan="2" data-bbox="667 1827 1437 1861">L02: Set temperature (Heat)</td> </tr> <tr> <td colspan="2" data-bbox="667 1861 1437 1895">L03: Room temperature</td> </tr> <tr> <td colspan="2" data-bbox="667 1895 1437 1928">L04: MCT temperature</td> </tr> <tr> <td colspan="2" data-bbox="667 1928 1437 1962">L05: AHC temperature</td> </tr> <tr> <td colspan="2" data-bbox="667 1962 1437 1995">L06: Outdoor temperature</td> </tr> <tr> <td colspan="2" data-bbox="667 1995 1437 2051">L08: MCT humidity</td> </tr> <tr> <td colspan="3" data-bbox="421 2051 1437 2080">*1 "B999" = Total of all blocks</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		*1 "B999" = Total of all blocks		
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Item	Description				
Download	<b>■ File format</b>				
	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)					

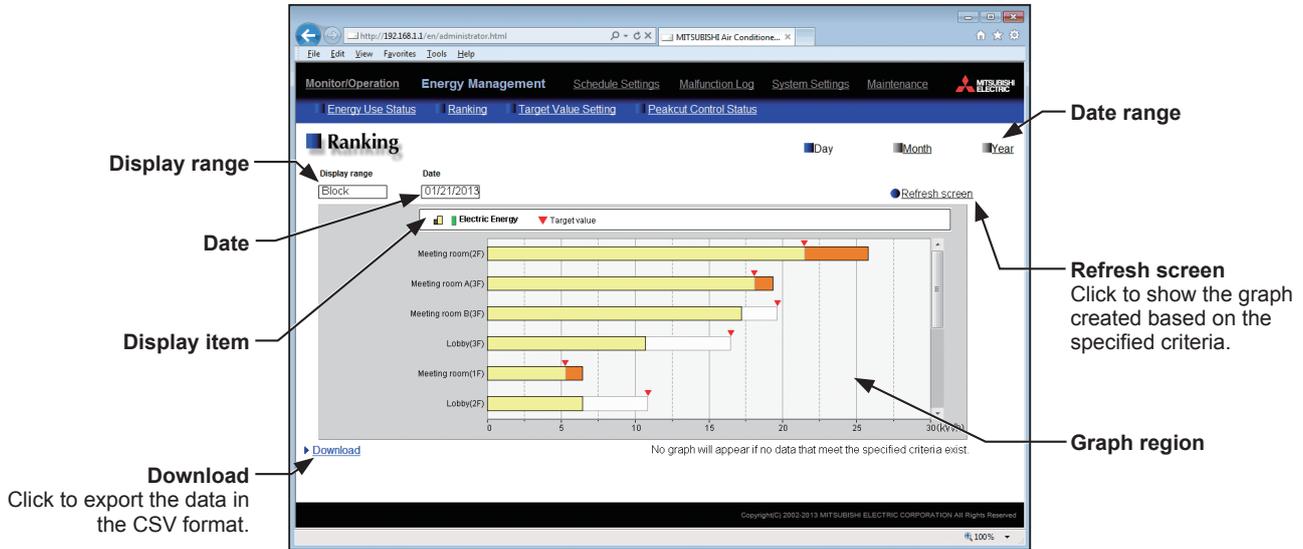
Item	Description
Download	<p>■ <u>File sample</u></p> <p>Date range: Day</p> <div style="border: 1px solid black; padding: 5px;"> <p>401 2014/08/19:2013/06/01 Block1/Block5 Time,Block1 - Indoor Unit Electric Energy,Block5 - Indoor Unit Electric Energy,Block1 - Outdoor Temp.,Block5 - Outdoor Temp. 00:00,0.61,0.25,23.2,17.8 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 style="border: 1px solid black; padding: 5px;"> <p>402 2014/04:2013/04 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 style="border: 1px solid black; padding: 5px;"> <p>403 2014:2013 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.



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 2 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. Note: Only the data for the period during which the AE-200/AE-50 was powered on will appear in the graph. The data for the period during which the AE-200/AE-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>√</td> <td>√</td> <td>√</td> </tr> <tr> <td>Fan operation time (min)</td> <td>√</td> <td>√</td> <td>-</td> </tr> <tr> <td>Thermo-ON time (Total) (min)</td> <td>√</td> <td>√</td> <td>-</td> </tr> <tr> <td>Thermo-ON time (Cool) (min)</td> <td>√</td> <td>√</td> <td>-</td> </tr> <tr> <td>Thermo-ON time (Heat) (min)</td> <td>√</td> <td>√</td> <td>-</td> </tr> <tr> <td>Target value (kWh)</td> <td>-</td> <td>-</td> <td>√<sup>*1</sup></td> </tr> </tbody> </table> <p style="text-align: right;">√: Item that can be displayed in the graph</p> </div> <p><sup>*1</sup> 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>	Display item	Display range			Address	Group	Block	Electric Energy (kWh)	√	√	√	Fan operation time (min)	√	√	-	Thermo-ON time (Total) (min)	√	√	-	Thermo-ON time (Cool) (min)	√	√	-	Thermo-ON time (Heat) (min)	√	√	-	Target value (kWh)	-	-	√ <sup>*1</sup>
Display item	Display range																															
	Address	Group	Block																													
Electric Energy (kWh)	√	√	√																													
Fan operation time (min)	√	√	-																													
Thermo-ON time (Total) (min)	√	√	-																													
Thermo-ON time (Cool) (min)	√	√	-																													
Thermo-ON time (Heat) (min)	√	√	-																													
Target value (kWh)	-	-	√ <sup>*1</sup>																													
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>■ <b>File name</b></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="422 593 1452 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)																														
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B05: Thermo-ON time (Heat)																																																												
<p>■ <b>File format</b></p> <table border="1" data-bbox="422 1124 1452 1765"> <thead> <tr> <th>Row</th> <th>Item</th> <th>Date range</th> <th colspan="2">Format</th> </tr> </thead> <tbody> <tr> <td rowspan="3">1st</td> <td rowspan="3">File Type</td> <td>Day</td> <td colspan="2">404</td> </tr> <tr> <td>Month</td> <td colspan="2">405</td> </tr> <tr> <td>Year</td> <td colspan="2">406</td> </tr> <tr> <td rowspan="3">2nd</td> <td rowspan="3">Date</td> <td>Day</td> <td colspan="2">dd/mm/yyyy *1</td> </tr> <tr> <td>Month</td> <td colspan="2">mm/yyyy *1</td> </tr> <tr> <td>Year</td> <td colspan="2">yyyy *1</td> </tr> <tr> <td rowspan="3">3rd</td> <td rowspan="3">Display range</td> <td>Address</td> <td colspan="2">"All addresses"</td> </tr> <tr> <td>Group</td> <td colspan="2">"All groups"</td> </tr> <tr> <td>Block</td> <td colspan="2">"All blocks"</td> </tr> <tr> <td rowspan="3">4th</td> <td rowspan="3">Measurement item</td> <td>Address</td> <td colspan="2">"Address number", Display item</td> </tr> <tr> <td>Group</td> <td colspan="2">"Group name", Display item</td> </tr> <tr> <td>Block</td> <td colspan="2">"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 colspan="2">Address number, Data value</td> </tr> <tr> <td>Group</td> <td colspan="2">"Group" + Group number, Data value</td> </tr> <tr> <td>Block</td> <td colspan="2">"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																																																									
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<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>■ <u>File sample</u></p> <p>Date range: Day</p> <div style="border: 1px solid black; padding: 5px;"> <p>404 03/13/2014 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 04/2014 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 2014 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.

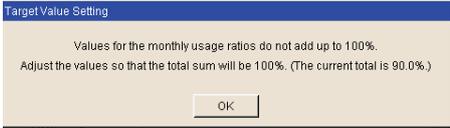
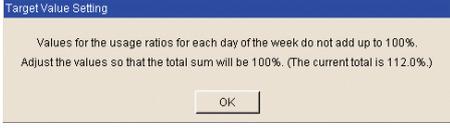
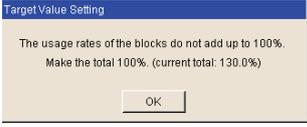
Under the [Total target value] section, the items [Annual target], [Monthly target], and [Usage ratio for each day of the week] will appear. Set the annual target electric energy, usage ratio for each month, and usage ratio for each day of the week to automatically calculate the monthly target electric 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 fields for 'Annual target' (15999 kwh), 'Comparison with previous year' (0.0 %), and a table for 'Monthly target' (Jan-Dec) and 'Usage ratio for each day of the week' (Sun-Sat). 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 these fields and buttons: 'Annual target electric energy', 'Comparison with previous year', 'Monthly target electric energy', 'Usage ratio for each month', 'Usage ratio for each day of the week', 'Refresh', 'Block name', 'Annual target electric energy for each block', 'Auto calc.', 'Usage ratio for each block', 'Save Settings', and 'Refresh' (bottom).

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.

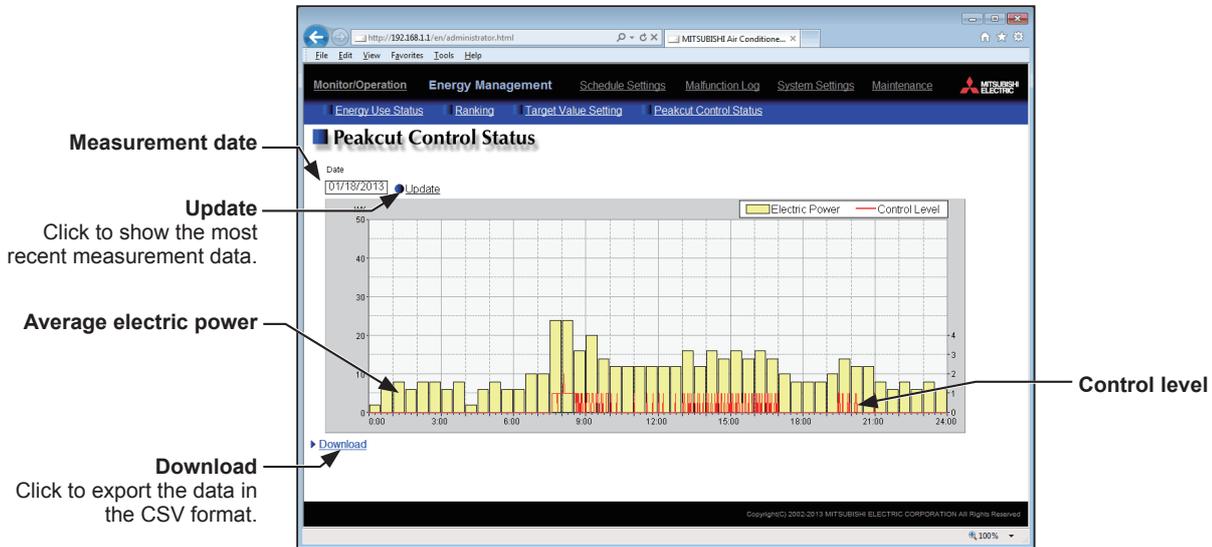
Item	Description
Usage ratio for each month	<p>Enter the target usage ratios of the annual electric energy for each month.</p> <p>Note: Each ratio must be between 0 and 100%.</p> <p>Note: The total of the ratios must be 100%. If the total is not 100%, a window that shows the current total value as shown 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

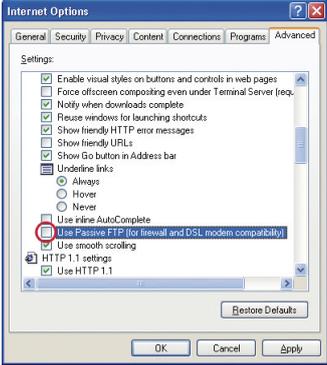
This section explains how to check the Peakcut control status.

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.



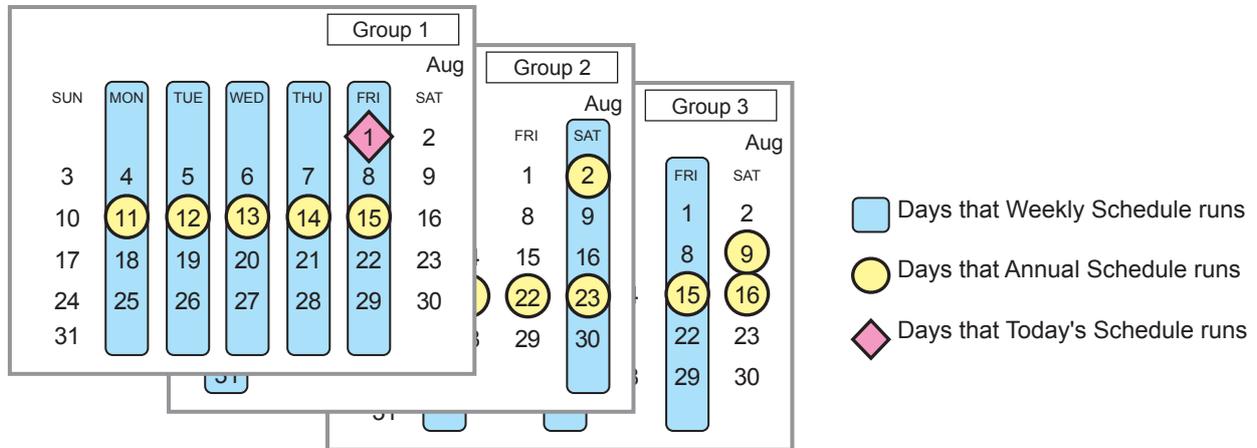
Item	Description								
Update	Click to show the most recent measurement data.								
Measurement date	Select the measurement date. Note: The data of the past three days including the current day can be displayed.								
Average electric power	Average electric power consumption (kW) will appear in 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.								
Download	Click [Download] to export the measurement data in the CSV format as shown below.  <div style="border: 1px solid black; padding: 5px;"> <p>■ File name</p> <p>Peakcut_[yyyy]-[mm]-[dd].csv</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">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> </div>	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="422 210 1398 510"> <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="422 676 804 902" style="border: 1px solid black; padding: 5px;"> <pre> 123 03/13/2014 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

Weekly (5 types), annual (5 types), and current day scheduling are available. Schedules can be set for each group, each block, or all groups.

## Schedule setting example



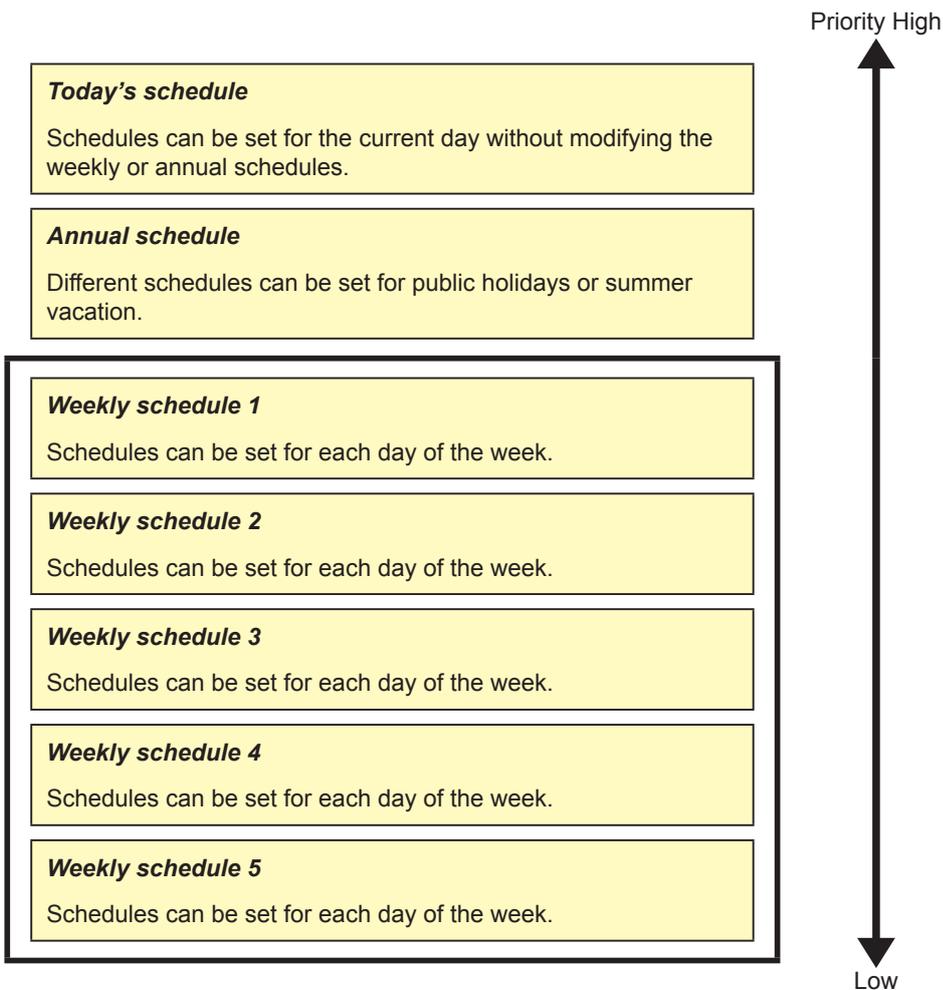
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
							Weekly schedule 1 (special)				
					Weekly schedule 2 (summer)						
Weekly schedule 4 (winter)											Weekly schedule 4 (winter)
		Weekly schedule 5 (spring)									
								Weekly schedule 3 (autumn)			

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 2.

Note: When the schedules overlap, schedule with the highest priority will run as shown below.



## 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: When today's schedule and weekly schedule are set for the same day, today's schedule settings take precedence over weekly schedule settings.

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

**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**

**Air-conditioners/HWHP**

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

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

**Delete**  
Click to delete a schedule.

**Contents of Schedule**

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

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

#### (1-1) Selecting an equipment type

In the "Air-conditioners/HWHP" section, select [HWHP] to set the schedule for HWHP (CAHV) units, or select [Air-conditioners] to set the schedule for other equipment.

#### (1-2) Selecting a group as a target

Select [Group] in the Setting Range section.

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 Range**

Group  Block  All Groups

**Setting Object**

Block Name  
Lobby (1F)

Group Name  
Lobby(South)

Group Number

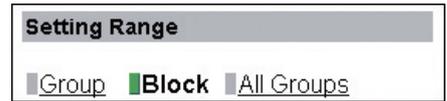
Copy (Group)  Paste

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

### (1-3) Selecting a block as a target

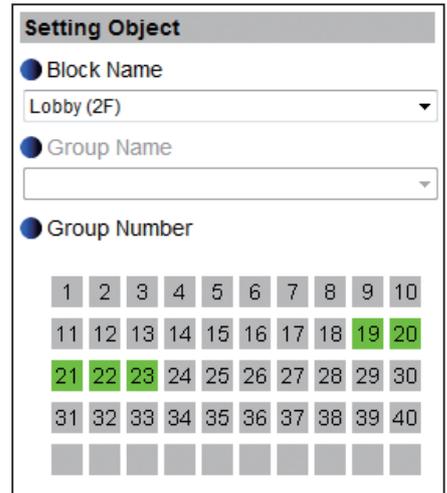
Select [Block] in the Setting Range section.

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.)



Setting Range

Group  Block  All Groups



Setting Object

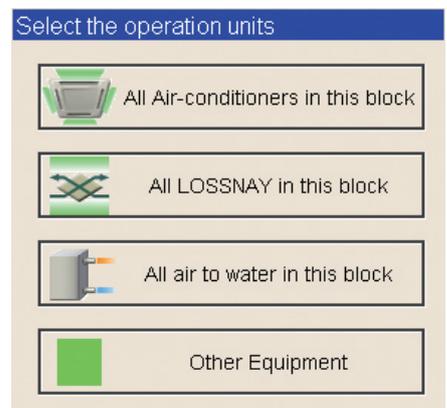
Block Name  
Lobby (2F)

Group Name

Group Number

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

If different equipment types exist together in the same block, a screen to select an equipment type will appear.  
Click one of the equipment types to set the schedule.



Select the operation units

All Air-conditioners in this block

All LOSSNAY in this block

All air to water in this block

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.



Schedule Settings

New settings

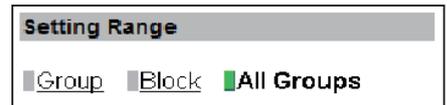
Based on the following group settings

Tenant 1

Cancel OK

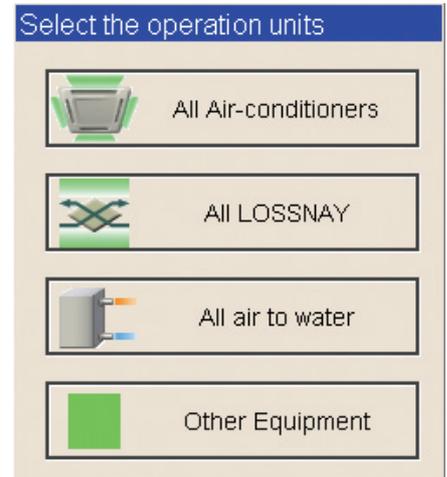
**(1-4) Selecting all groups as a target**

Select [All Groups] in the Setting Range section.



If different equipment types exist together in the same system, a screen to select an equipment type will appear.

Click one of the equipment 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.

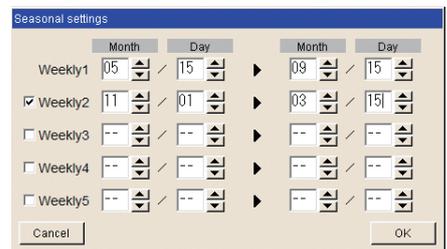
Enter the date periods in which each weekly schedule will be effective.

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: 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.

Note: The date period over the next year (such as 11/01 - 03/31) can be set.



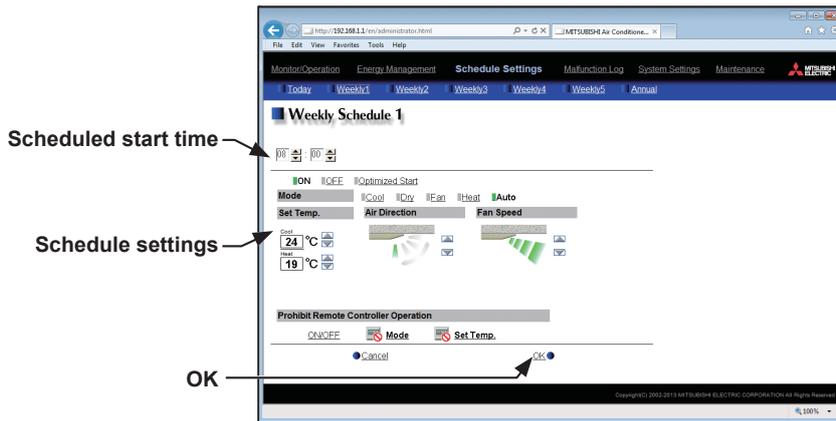
**(3) Selecting a day of the week**

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.

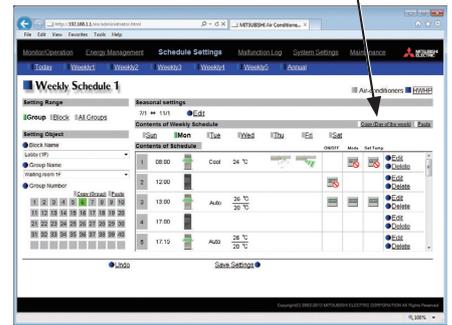
## (5) Copying a schedule

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.

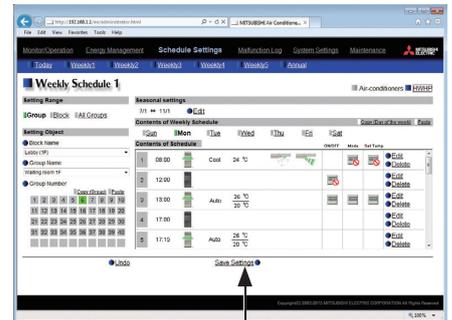
Note: The operation mode and set temperature may not be copied because the available operation modes or operable set temperature range differ among the units.

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.

Note: When today's schedule and annual schedule are set for the same day, today's schedule settings take precedence over annual schedule settings.

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

The screenshot shows the 'Annual Schedule' configuration interface. It includes a 'Setting Range' section for selecting the target (Block, Group, or All Groups) and a 'Setting Object' section for selecting the specific object (Block Name, Tenant, or Group). A calendar grid is used to assign 'Schedule Pattern Settings' (Pattern 1-5) to specific days. The 'Contents of Annual Schedule' section displays a list of scheduled events with details like time, mode, and temperature, and includes 'Edit' and 'Delete' buttons for each. A 'Schedule Pattern Settings' calendar shows the distribution of patterns over a month. At the bottom, there are 'Undo' and 'Save Settings' buttons.

**Setting Range**  
Select a target to which the annual 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.

**Schedule pattern selection**

**Contents of Schedule**

**Air Conditioners/HWHP**

**Copy (Pattern)/Paste**  
Click to copy or paste a schedule among the patterns.

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

**Delete**  
Click to delete a schedule.

**Calendar**

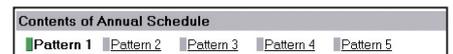
**Save Settings**  
Click to save the settings.

### (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.

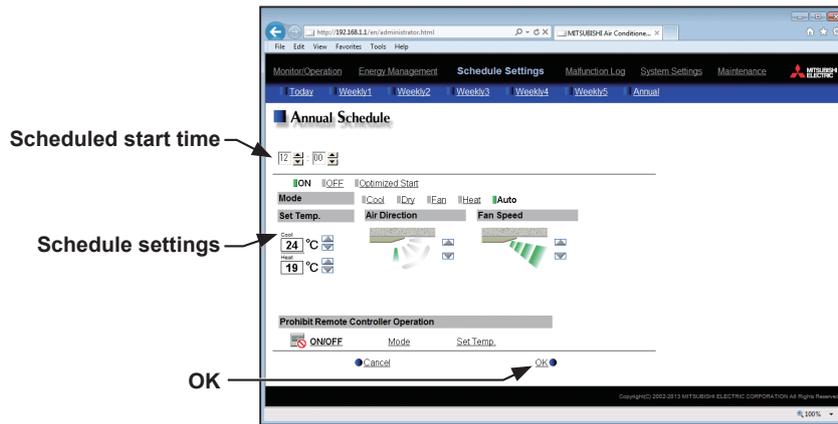
### (2) Selecting a schedule pattern

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.

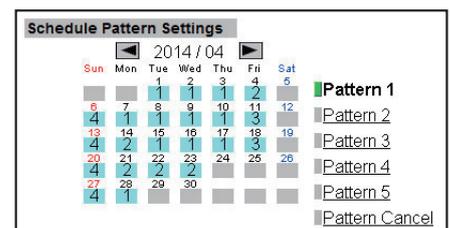
Note: For general equipment groups, only the operation ON/OFF settings can be made.

### (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.



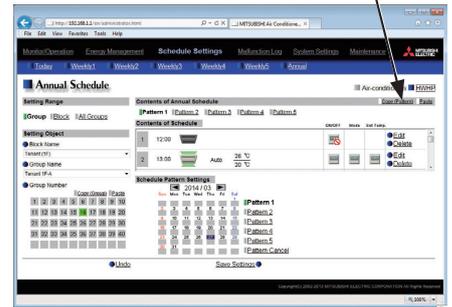
## (5) Copying a schedule

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.

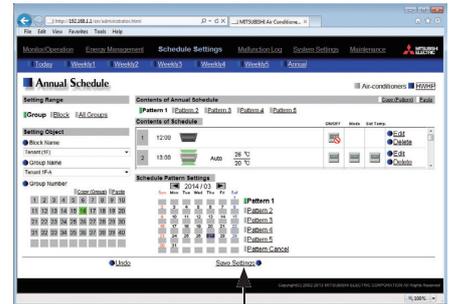
Note: The operation mode and set temperature may not be copied because the available operation modes or operable set temperature range differ among the units.

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

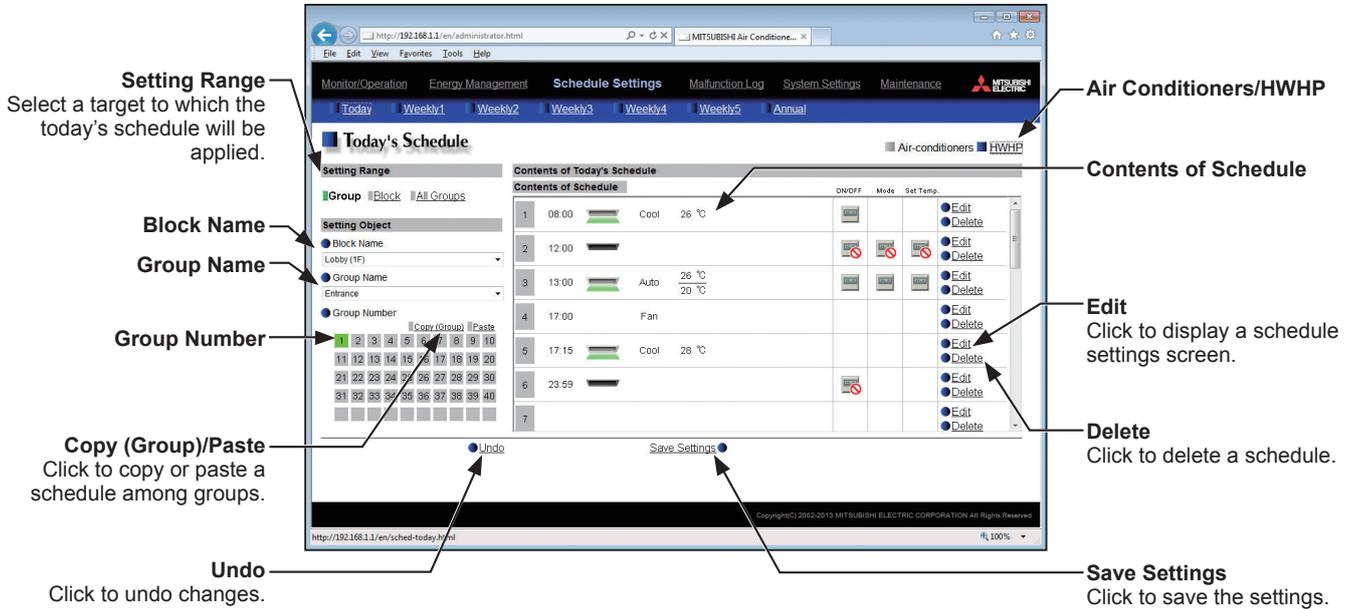
### 6-3. Today's Schedule

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.

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

Note: 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.

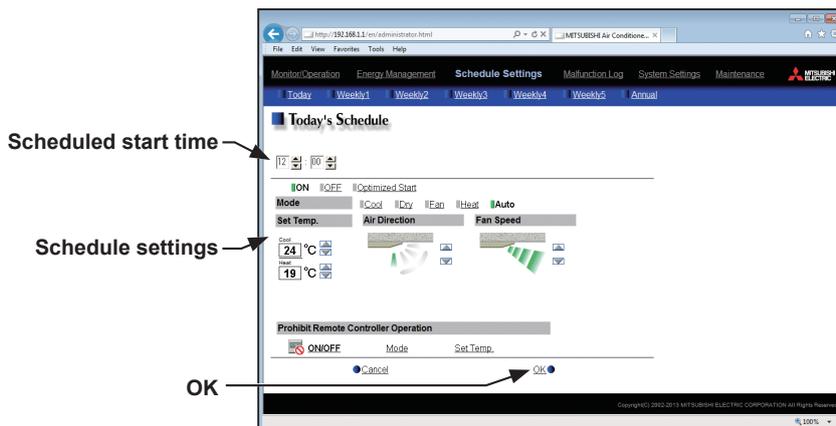


#### (1) Selecting a target to which the schedule will be applied

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.

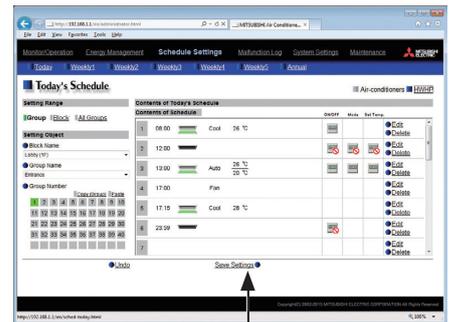
Note: When setting a schedule for a block or all groups, all operation modes are available for selection, but the available operation modes depend on the unit model. The units will not operate in the selected mode not supported by the units.

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.

### (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.



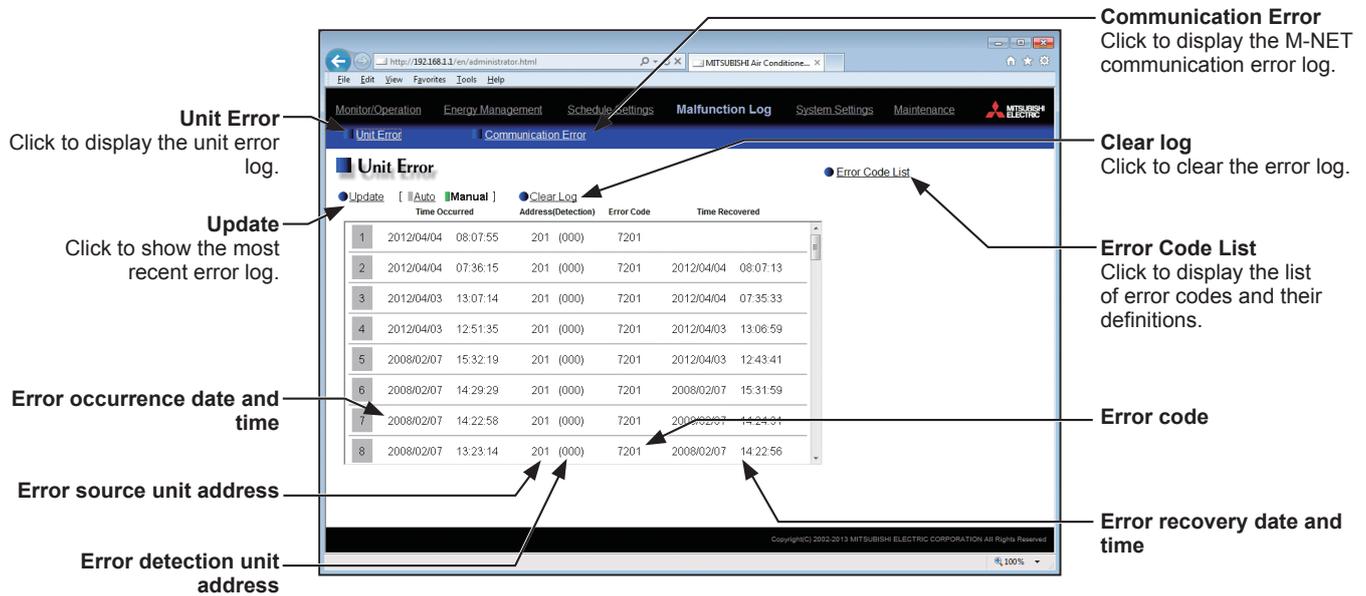
Save Settings

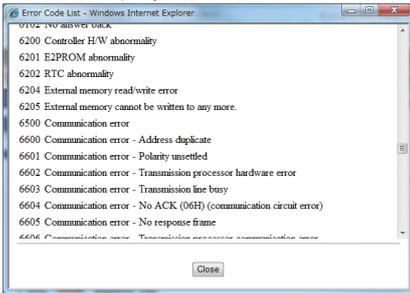
# 7. Malfunction Log

## 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.

Note: If there is no error occurred, no error log will appear.



Item	Description
Unit Error	Click to display the unit error log. Note: The latest 64 unit errors will appear on each AE-200/AE-50 Web browser.
Communication Error	Click to display the M-NET communication error log. Note: The latest 64 unit errors will appear on each AE-200/AE-50 Web browser.
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 save the settings.

Note: The date and time settings may not be accessible if logged in as a building manager.

Note: The date and time settings made on this screen will be reflected on all the units in the M-NET system, all connected AE-50 units, and the AE-200 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].

Note: The daylight saving time setting is required only on the AE-200.

Note: If the current time is moved forward while the scheduled operation is performed, the operation that was scheduled to take place during the time that was skipped will not be performed.

Note: Changing the date and/or time when the charging function is in use can affect the calculation of the charges.

Note: When AE-50 controller, DIDO controller (PAC-YG66DCA), AI controller (PAC-YG63MCA), or PI controller (PAC-YG60MCA) is added to the system, set the current date and time on this screen to synchronize the date and time on the added controller.

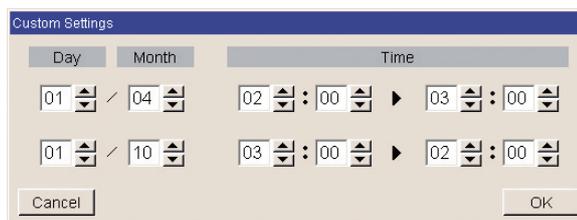
Note: Although date and time settings can be made on each AE-50, the date and time synchronization from AE-200 is performed once a day. Make the date and time settings on the AE-50 only after the AE-50 is replaced.

The screenshot shows the 'Date/Time Settings' page in a web browser. The page has a navigation bar with 'System Settings' selected. Below the navigation bar, there are tabs for 'Date/Time Settings' and 'User Registration'. The main content area is titled 'Date/Time Settings' and contains several input fields: 'Year' (2012), 'Month' (01), 'Day' (05), 'Hour' (14), 'Minute' (10), and 'Second' (00). 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 is a 'Note' about charge-function changes. At the bottom of the form are 'Refresh' and 'Save Settings' buttons. Callouts with arrows point to these elements: 'Daylight saving time setting' points to the checkbox, 'Refresh' points to the Refresh button, 'Current date and time' points to the date and time input fields, and 'Save Settings' points to the Save Settings button.

- (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.



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.

Note: The user registration is required for each AE-200/AE-50.

**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**

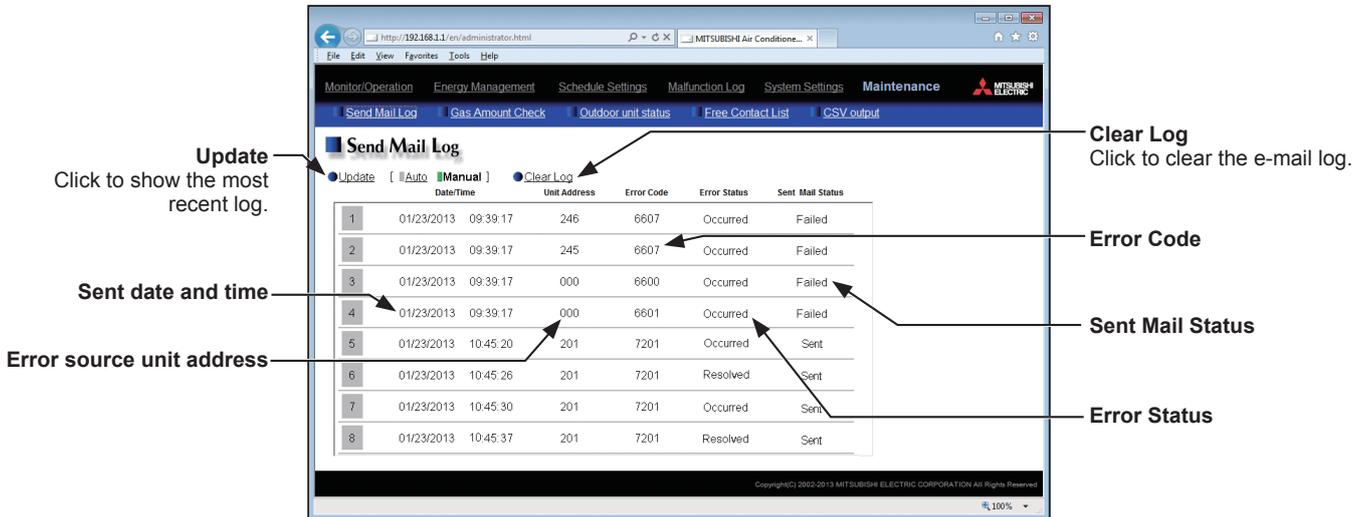
**Save Settings**

# 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 a web browser window displaying the 'Gas Amount Check' screen. 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 sub-menus: '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 features a 'Check all outdoor units' button. Below this, there is a table with columns for 'Address', 'Check Result', and 'Log'. The table lists two outdoor units: one with address 51 (Normal) and one with address 76 (Lo). Each unit has a 'Check Start' button. A 'Log' section on the right displays a list of check logs with columns for date, time, and result. Callouts point to these elements with the following descriptions:

- Check all outdoor units**: Click to start checking the gas refrigerant charge on all outdoor units.
- M-NET address of the outdoor unit**: Points to the 'Address' column in the table.
- 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.

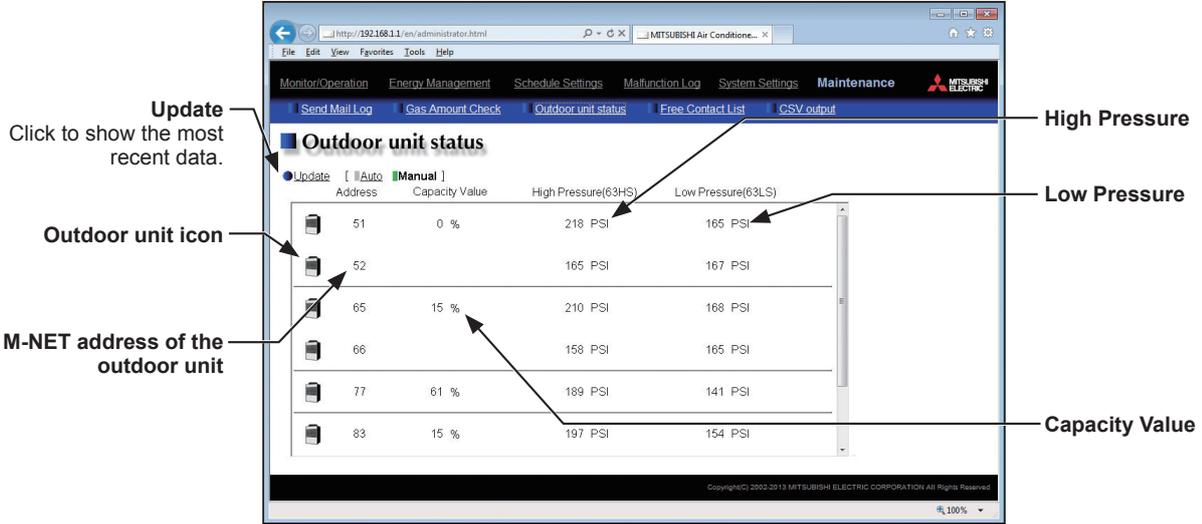
Note: The screen can be closed before a check is completed. The check results will be displayed next time this screen is opened.

### 9-3. Outdoor unit status

On the Outdoor Unit Status screen, operators can check the capacity value, 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 AE-200/AE-50 was started up while the outdoor unit was powered off. If this is the case, restart the AE-200/AE-50.



Item	Description
Update	Click to show the most recent data. When [Auto] is selected, the data is updated automatically every minute.
Capacity Value	The capacity value of the compressor on a given outdoor unit will appear. Note: The capacity value of a sub outdoor unit will not appear.
High Pressure	Refrigerant discharge pressure of the compressor on a given outdoor unit will appear.
Low Pressure	Refrigerant suction pressure of the compressor on a given outdoor unit will appear.
Outdoor unit icon	 : Normal  : Communication error or unit error

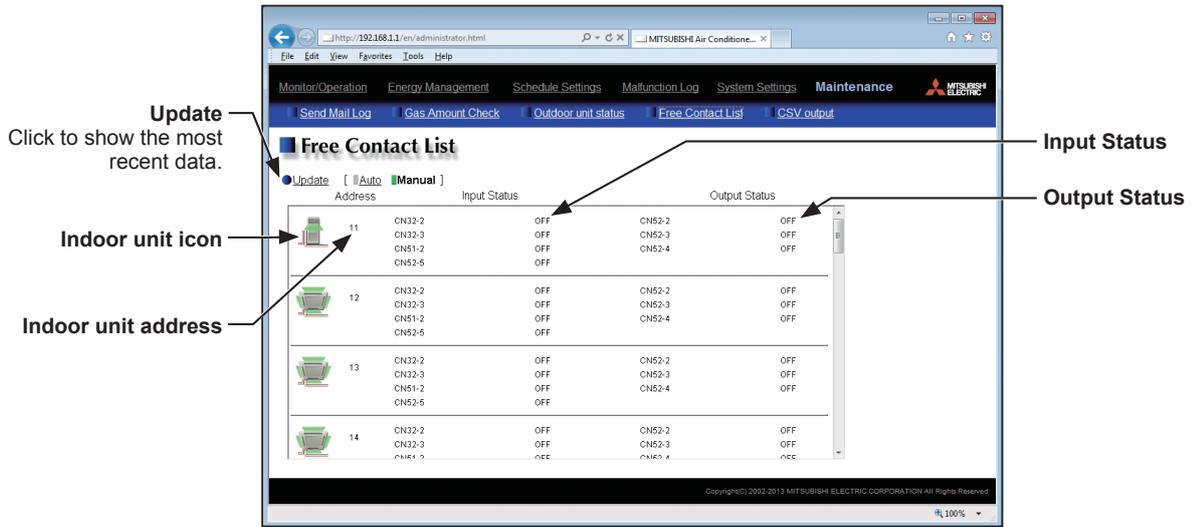
\* When a communication error occurs, "--" will appear in the Capacity Value, High Pressure, and Low Pressure value fields.

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

## 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

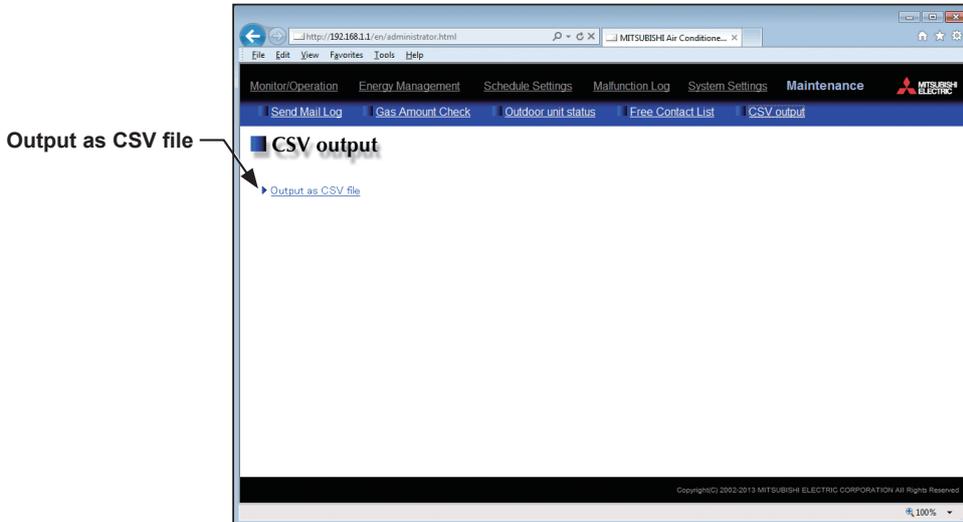
## 9-5. CSV output

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.

Note: Use Excel 2007 or later if the output CSV file will need to be read to a PC.



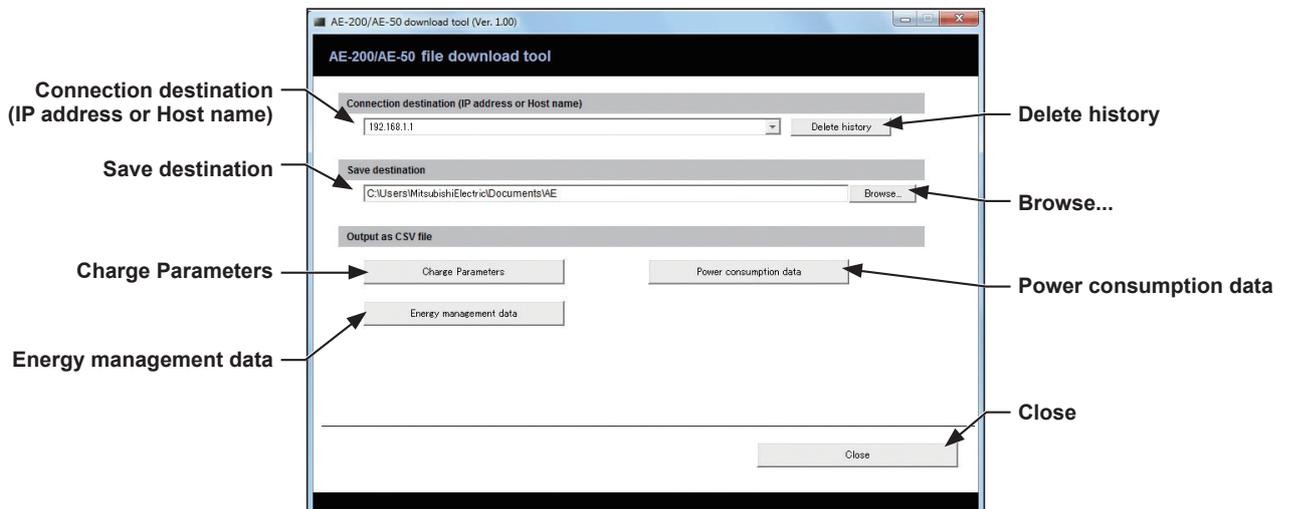
(1) Click [Output as CSV file] to display the Window's standard file download dialog.

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

Note: If the "Aecsvdl.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 "Aecsvdl.jar" file will be saved in the specified folder. In this case, double clicking the file will also start the CSV File Download Tool.

### 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].

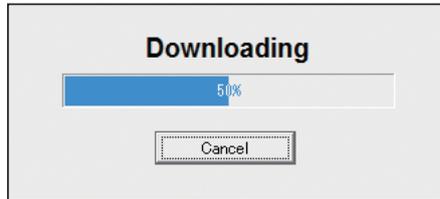
Note: The building manager or maintenance user can login.



(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.

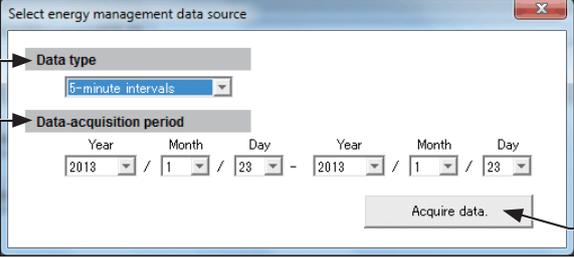
Note: It may take a few minutes to complete the download, depending on the data volume.



Item	Description
Connection destination	Enter the IP address or host name of the AE-200/AE-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            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.            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]            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="422 651 1390 927"> <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–66th</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.            *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.            *3 Each value is the cumulative value between the start date and the end date.            *4 The value will not appear if the data does not exist.            *5 Each file contains the data of up to 62 days.</p> <p>■ <b>File sample</b></p> <pre data-bbox="422 1223 1259 1447"> 201 12/19/2013-1/10/2014 Address 31 Date,SaveValue,ThermoTime,FanTime,SubHeaterTime 12/19/2013,1258,0,465,0 12/20/2013,1260,0,468,0 12/21/2013,1262,0,472,0 12/22/2013,1264,0,477,0 12/23/2013,1266,0,490,0 . 01/10/2014,2058,0,1013,0           </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–66th	Data *2*3*4*5	Date *1, Capacity-save value (min), Thermo-ON time (min), Fan operation time (min), Sub-heater-ON time (min)
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–66th	Data *2*3*4*5	Date *1, Capacity-save value (min), Thermo-ON time (min), Fan operation time (min), Sub-heater-ON time (min)																	

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="422 651 1406 954"> <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–66th</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 62 days.</p> <p>■ <b>File sample</b></p> <pre data-bbox="422 1312 1259 1516"> 202 12/19/2013-1/10/2014 MCP 50-1 No.,Date,Count value(Ch1),Count value(Ch2),Count value(Ch3),Count value(Ch4) 501,12/19/2013,190887.43,872411.43,227424.88,55515.50 501,12/20/2013,190899.16,872420.12,227428.63,55526.70 501,12/21/2013,190905.22,872442.23,227435.74,55537.90 501,12/22/2013,190910.38,878449.77,227448.19,55549.84 : 501,01/10/2014,200014.38,87950.36,227925.19,60111.63           </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–66th	Data *2*3*4*5*6	MCP address + Time period, Date *1, MCP 1, MCP 2, MCP 3, MCP 4
Row	Item	Format																	
1st	File Type	202																	
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5th–66th	Data *2*3*4*5*6	MCP address + Time period, Date *1, MCP 1, MCP 2, MCP 3, MCP 4																	

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> 														
	<table border="1"> <tr> <td data-bbox="422 656 667 712">Data type</td> <td data-bbox="667 656 1393 712">Select [5-minute intervals], [30-minute intervals], [1-month intervals], [1-day intervals], or [1-year intervals].</td> </tr> <tr> <td data-bbox="422 712 667 992">Data-acquisition period</td> <td data-bbox="667 712 1393 992"> <p>Specify the date period to acquire the data.</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: The date range that can be specified will vary, depending on the item selected in the [Data type] field.</p> <p>Note: If [1-month intervals] or [1-year intervals] is selected in the [Data type] field, the data-acquisition period cannot be specified.</p> <p>Note: Only the data for the period during which the AE-200/AE-50 was powered on will be output. The data for the period during which the AE-200/AE-50 was powered off will not be output.</p> </td> </tr> <tr> <td data-bbox="422 992 667 1014">Acquire data</td> <td data-bbox="667 992 1393 1014">Click to output the CSV file based on the selected criteria.</td> </tr> </table>	Data type	Select [5-minute intervals], [30-minute intervals], [1-month intervals], [1-day intervals], or [1-year intervals].	Data-acquisition period	<p>Specify the date period to acquire the data.</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: The date range that can be specified will vary, depending on the item selected in the [Data type] field.</p> <p>Note: If [1-month intervals] or [1-year intervals] is selected in the [Data type] field, the data-acquisition period cannot be specified.</p> <p>Note: Only the data for the period during which the AE-200/AE-50 was powered on will be output. The data for the period during which the AE-200/AE-50 was powered off will not be output.</p>	Acquire data	Click to output the CSV file based on the selected criteria.								
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Acquire data	Click to output the CSV file based on the selected criteria.														
	<p>■ <b>File name</b></p> <p>Data type: 5-minute intervals  “EnergyManagement”_“5MIN”_[YYYY]-[MM]-[DD]_[yyyy]-[mm]-[dd].csv</p> <p>Data type: 30-minute intervals  “EnergyManagement”_“30MIN”_[YYYY]-[MM]-[DD]_[yyyy]-[mm]-[dd].csv</p> <p>Data type: 1-day intervals  “EnergyManagement”_“1DAY”_[YYYY]-[MM]-[DD]_[yyyy]-[mm]-[dd].csv</p> <p>Data type: 1-month intervals  “EnergyManagement”_“1MONTH”_[YYYY]-[MM]_[yyyy]-[mm].csv</p> <p>Data type: 1-year intervals  “EnergyManagement”_“1YEAR”_[YYYY]-[yyyy].csv</p> <table border="1" data-bbox="454 1462 970 1720"> <thead> <tr> <th>File-name contents</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>[YYYY]</td> <td>Start year</td> </tr> <tr> <td>[MM]</td> <td>Start month</td> </tr> <tr> <td>[DD]</td> <td>Start date</td> </tr> <tr> <td>[yyyy]</td> <td>End year</td> </tr> <tr> <td>[mm]</td> <td>End month</td> </tr> <tr> <td>[dd]</td> <td>End date</td> </tr> </tbody> </table> <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>	File-name contents	Format	[YYYY]	Start year	[MM]	Start month	[DD]	Start date	[yyyy]	End year	[mm]	End month	[dd]	End date
File-name contents	Format														
[YYYY]	Start year														
[MM]	Start month														
[DD]	Start date														
[yyyy]	End year														
[mm]	End month														
[dd]	End date														

Item	Description													
Energy management data	<p>■ <b>File output destination</b>            [Save destination][Serial No.]\“OperationalData”\“EnergyManagementData”\[Date]            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>            [Data type: 5-minute intervals]</p>													
	Row	Item	Format											
	1st	File Type	501											
	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),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="719 703 1369 936"> <thead> <tr> <th data-bbox="719 703 1193 741">Item</th> <th data-bbox="1193 703 1369 741">Unit</th> </tr> </thead> <tbody> <tr> <td data-bbox="719 741 1193 779">Data1, Data2, Data3</td> <td data-bbox="1193 741 1369 779">-</td> </tr> <tr> <td data-bbox="719 779 1193 833">OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp</td> <td data-bbox="1193 779 1369 833">°C, °F</td> </tr> <tr> <td data-bbox="719 833 1193 871">MCP (PI controller)</td> <td data-bbox="1193 833 1369 871">kWh, m3, MJ</td> </tr> <tr> <td data-bbox="719 871 1193 909">MCT (AI controller)</td> <td data-bbox="1193 871 1369 909">°C, °F, %</td> </tr> <tr> <td data-bbox="719 909 1193 936">AHC (Advanced HVAC CONTROLLER)</td> <td data-bbox="1193 909 1369 936">°C, °F</td> </tr> </tbody> </table>	Item	Unit	Data1, Data2, Data3	-	OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp	°C, °F	MCP (PI controller)	kWh, m3, MJ	MCT (AI controller)	°C, °F, %	AHC (Advanced HVAC CONTROLLER)	°C, °F
Item	Unit													
Data1, Data2, Data3	-													
OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp	°C, °F													
MCP (PI controller)	kWh, m3, MJ													
MCT (AI controller)	°C, °F, %													
AHC (Advanced HVAC CONTROLLER)	°C, °F													
5th–17860th	Data *5*6*7	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), 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)												
<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 temperature unit °C or °F will appear, depending on the temperature unit that has been selected on the Basic System settings screen, accessible via the Web Browser for Initial Settings.</p> <p>*3 The measurement unit for MCP (PI controller) will be the measurement unit that has been set on the Measurement screen, accessible via the Web Browser for Initial Settings.</p> <p>*4 The measurement item for MCT (AI controller) will be temperature or humidity, which has been set on the Measurement screen, accessible via the Web Browser for Initial Settings.</p> <p>*5 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>*6 The value will not appear if the data does not exist.</p> <p>*7 Each file contains up to 17856 data (2-month worth of data).</p>														

Item	Description																	
Energy management data	[Data type: 30-minute intervals]																	
	Row	Item	Format															
	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="719 658 1369 999"> <thead> <tr> <th data-bbox="719 658 1193 696">Item</th> <th data-bbox="1193 658 1369 696">Unit</th> </tr> </thead> <tbody> <tr> <td data-bbox="719 696 1193 730">ApporionedElectricEnergy</td> <td data-bbox="1193 696 1369 730">kWh</td> </tr> <tr> <td data-bbox="719 730 1193 763">ThermoCount, Data1, Data2, Data3</td> <td data-bbox="1193 730 1369 763">-</td> </tr> <tr> <td data-bbox="719 763 1193 819">OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp</td> <td data-bbox="1193 763 1369 819">°C, °F</td> </tr> <tr> <td data-bbox="719 819 1193 898">FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue</td> <td data-bbox="1193 819 1369 898">Minute</td> </tr> <tr> <td data-bbox="719 898 1193 931">MCP (PI controller)</td> <td data-bbox="1193 898 1369 931">kWh, m3, MJ</td> </tr> <tr> <td data-bbox="719 931 1193 965">MCT (AI controller)</td> <td data-bbox="1193 931 1369 965">°C, °F, %</td> </tr> <tr> <td data-bbox="719 965 1193 999">AHC (Advanced HVAC CONTROLLER)</td> <td data-bbox="1193 965 1369 999">°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)	°C, °F
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="719 658 1369 1003"> <thead> <tr> <th data-bbox="719 658 1193 696">Item</th> <th data-bbox="1193 658 1369 696">Unit</th> </tr> </thead> <tbody> <tr> <td data-bbox="719 696 1193 734">ApporionedElectricEnergy, TargetElectricEnergy</td> <td data-bbox="1193 696 1369 734">kWh</td> </tr> <tr> <td data-bbox="719 734 1193 772">Data1, Data3</td> <td data-bbox="1193 734 1369 772">-</td> </tr> <tr> <td data-bbox="719 772 1193 824">OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp</td> <td data-bbox="1193 772 1369 824">°C, °F</td> </tr> <tr> <td data-bbox="719 824 1193 898">FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue</td> <td data-bbox="1193 824 1369 898">Minute</td> </tr> <tr> <td data-bbox="719 898 1193 936">MCP (PI controller)</td> <td data-bbox="1193 898 1369 936">kWh, m3, MJ</td> </tr> <tr> <td data-bbox="719 936 1193 974">MCT (AI controller)</td> <td data-bbox="1193 936 1369 974">°C, °F, %</td> </tr> <tr> <td data-bbox="719 974 1193 1003">AHC (Advanced HVAC CONTROLLER)</td> <td data-bbox="1193 974 1369 1003">°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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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="719 658 1369 1003"> <thead> <tr> <th data-bbox="719 658 1193 696">Item</th> <th data-bbox="1193 658 1369 696">Unit</th> </tr> </thead> <tbody> <tr> <td data-bbox="719 696 1193 734">ApporionedElectricEnergy, TargetElectricEnergy</td> <td data-bbox="1193 696 1369 734">kWh</td> </tr> <tr> <td data-bbox="719 734 1193 772">Data1, Data3</td> <td data-bbox="1193 734 1369 772">-</td> </tr> <tr> <td data-bbox="719 772 1193 824">OutdoorTemp, CoolSetTemp, HeatSetTemp, RoomTemp</td> <td data-bbox="1193 772 1369 824">°C, °F</td> </tr> <tr> <td data-bbox="719 824 1193 898">FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue</td> <td data-bbox="1193 824 1369 898">Minute</td> </tr> <tr> <td data-bbox="719 898 1193 936">MCP (PI controller)</td> <td data-bbox="1193 898 1369 936">kWh, m3, MJ</td> </tr> <tr> <td data-bbox="719 936 1193 974">MCT (AI controller)</td> <td data-bbox="1193 936 1369 974">°C, °F, %</td> </tr> <tr> <td data-bbox="719 974 1193 1003">AHC (Advanced HVAC CONTROLLER)</td> <td data-bbox="1193 974 1369 1003">°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																	
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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="719 591 1369 808"> <thead> <tr> <th data-bbox="719 591 1193 629">Item</th> <th data-bbox="1193 591 1369 629">Unit</th> </tr> </thead> <tbody> <tr> <td data-bbox="719 629 1193 667">ApporionedElectricEnergy, TargetElectricEnergy</td> <td data-bbox="1193 629 1369 667">kWh</td> </tr> <tr> <td data-bbox="719 667 1193 705">Data1, Data3</td> <td data-bbox="1193 667 1369 705">-</td> </tr> <tr> <td data-bbox="719 705 1193 779">FanTime, CoolTime, HeatTime, ThermoTime, CoolThermoTime, HeatThermoTime, SaveValue, CoolSaveValue, HeatSaveValue</td> <td data-bbox="1193 705 1369 779">Minute</td> </tr> <tr> <td data-bbox="719 779 1193 808">MCP (PI controller)</td> <td data-bbox="1193 779 1369 808">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)										
*1 The measurement unit for MCP (PI controller) will be the measurement unit that has been set on the Measurement screen, accessible via the Web Browser for Initial Settings. *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. *3 The value will not appear if the data does not exist. *4 Each file contains up to 5 data (5-year worth of data).												
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 *11
		5-minute	30-minute	1-day *6	1-month *7	1-year *8		
Outdoor unit	Data 1 *1	V	V	V	V	V	–	0–999999.99
	Data 2 *1	V	V				–	0–9999.99
	Data 3 *1	V	V	V	V	V	–	0–99.99
	Outdoor temperature	V	V *2	V *3	V *4		°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 *9	V *10	V *10	V *10	Minute	0–2147483647
	Cooling operation time		V *9	V *10	V *10	V *10	Minute	0–2147483647
	Heating operation time		V *9	V *10	V *10	V *10	Minute	0–2147483647
	Thermo-ON time		V *9	V *10	V *10	V *10	Minute	0–2147483647
	Cooling Thermo-ON time		V *9	V *10	V *10	V *10	Minute	0–2147483647
	Heating Thermo-ON time		V *9	V *10	V *10	V *10	Minute	0–2147483647
	Number of Thermo-ON/OFF *5		V *9				–	0–2147483647
	Capacity-save value		V *9	V *10	V *10	V *10	Minute	0–21474836.47
	Cooling capacity-save value		V *9	V *10	V *10	V *10	Minute	0–21474836.47
	Heating capacity-save value		V *9	V *10	V *10	V *10	Minute	0–21474836.47
	Apportioned electric energy		V *9	V *10	V *10	V *10	kWh	0–999999.9999
Target electric energy			V *10	V *10	V *10	kWh	0–214748.3647	
MCP (PI controller)	MCP 1	V *9	V *9	V *10	V *10	V *10	kWh, m3, MJ	0–999999.99
	MCP 2	V *9	V *9	V *10	V *10	V *10	kWh, m3, MJ	0–999999.99
	MCP 3	V *9	V *9	V *10	V *10	V *10	kWh, m3, MJ	0–999999.99
	MCP 4	V *9	V *9	V *10	V *10	V *10	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 “Number of Thermo-ON/OFF” is the number of times the unit has gone from Thermo-OFF to Thermo-ON.

\*6 If the data contains the data for the current day, the data will be output that were collected up to the point of time when the CSV file was downloaded.

\*7 The data for the current month will contain the data that were collected up to the point of time when the CSV file was downloaded.

\*8 The data for the current year will contain the data that were collected up to the point of time when the CSV file was downloaded.

\*9 Each value is a cumulative value after the start of operation. If the value exceeds the maximum value, it will wrap around to zero.

\*10 Each value is a total value for each time period (1-day, 1-month, or 1-year).

\*11 The number of digits that will be shown after the decimal point varies with the data item. For example, if the data range is “0–99.99,” two digits after the decimal point will be shown.

Table 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







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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:

- Low Voltage Directive 2006/95/EC
- 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.

**MITSUBISHI ELECTRIC CORPORATION**

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN