



After reading, store this User's Guide in an easily accessible place for all users.

Model Name: AC Manager Plus Model No.: PQCSSA21E0

www.lge.com

Explanatory Notes

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Product Features



AC Manager Plus Configuration Integrates Easily.

- The integrated device management offers driver management, peak power control, demand control, and accumulated power divider.
- Status monitoring and control as shown in the plan.
- Operates indoor or outdoor groups on a schedule.
- Provides records of indoor use daily, weekly, or monthly.
- Report feature can be used to generate internal reports.

Other External Equipment Controls

- Works in conjunction with external equipment such as fire alarms, key tags, and lighting.
- · Ability to link with ACP

Efficient Power Control

- Displays and manages the power usage of each room.
- Distributed power data can be saved or printed.
- · Ability to control the outdoor unit capacity

AC M	 E

Convenient Automation

• Switches between cooling and heating to reach the desired temperature of users.

How to Use This Guide

Please read from the beginning to the end of this User's Guide before using AC Manager Plus. Also store this guide somewhere easily accessible.

Notations Used In This Guide

Keyboard Notation

- Keyboard strokes used by the system are marked by boldface text in angle brackets (< >).
 Example: <Esc> Key
- Key combinations use the same format with the addition of a plus sign (+). Example: **<Ctrl+C>** Key

Program UI Notation

- Control buttons displayed within the system are marked by boldface text in square brackets ([]). Example: [OK], [Save]
- Option titles displayed in the program are marked by boldface text. Example: **Start**, **Programs**

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Important Safety Precautions

The Important Safety Precautions shown in the following are to avoid potential injury or damage due to unexpected accidents, and to increase the lifetime of the product.



Warning

If you don't follow the instructions, you could be injured or even killed.

- Keep the Lock Key out of reach of children. If a child happens to swallow it, see the doctor immediately.
- To prevent electric shock or fire, do not expose the Lock Key to water or humidity.
- Do not disassemble the Lock Key arbitrarily as it could cause electric shock.
- The Lock Key does not guarantee any use, which could result in injury or death due to impairment.



Caution

If you do not follow the instructions, you could have injury or property loss.

- The Lock Key could hurt your hands. Please use extreme care when using it.
- Never remove the Lock Key when you are using AC Manager.

Preparation

The section provides the basic information required before using AC Manager Plus.

Installation

This section explains the pre-installation preparations for AC Manager Plus and how to install it.

Components

AC Manager Plus packaging includes the following components as shown in the diagram. Please open the AC Manager Plus package and verify that all components are included.



AC Manager Plus Installation DVD (User's Guide)



(Hard Lock Key)



Quick Guide

If any product is used other than our standard product and a problem occurs, we don't take any responsibility regarding the problem. Please keep away from using other products.

Recommended Specifications

The recommended specifications for AC Manager Plus are shown here.

Hardware	
CPU	Dual Core 2.4GHz or faster
System Memory	4 GB or more
Hard Disk Space	100 GB or more
OS	Windows XP, Windows 7
Resolution	1280 x 1024 or higher
Recommended Graphics	VGA: For NVidia, Geforce or later. For ATI, Radeon or later

Installing AC Manager Plus

Install AC Manager Plus using the procedures outlined in this document.

Hardware Installation ↓ AC Manager Plus Software Installation (Client/Server)

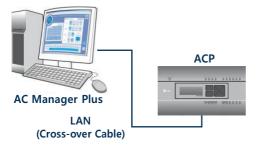
Hardware Installation

This section explains how to connect the computer to ACP to use AC Manager Plus.

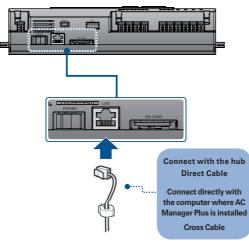
Connecting AC Manager Plus to an ACP

Use these steps when installing AC Manager Plus and connecting the ACP to the same computer.

1. Connect an Ethernet cross cable to the Ethernet port of the ACP.



- 2. Connect the other end of the Ethernet cross cable to the Ethernet port of the computer.
 - You should only use an Ethernet cross cable if you are connecting the computer (AC Manager Plus) and the ACP without a hub. The ACP Ethernet terminal is located on the device as shown in the figure.



NOTES

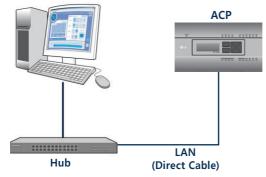
Do not use the Ethernet cable before checking if it is a direct cable or cross cable. Use the LAN tester to examine the cable before connecting the cable.

Connecting AC Manager Plusto multiple ACPs

Use these steps when connecting AC Manager Plus to multiple ACPs by using a hub.

1. Connect each ACP to the hub with a standard Ethernet cable.

AC Manager Plus



Installing AC Manager Plus (Client)

After the software installation is complete, Lock Key must be inserted.

This section explains how to install AC Manager Plus (Client).

- 1. Double-click the installation icon to begin the install.
- 2. When the Required Components Installation window appears, click [Install].
 - This will begin the installation of the required components.

Status	Requirement
-	Microsoft .NET Framework 4.0 Full
	HASP LockKeyDriver
renaing	KB2461678(x84)

3. When the SafeNet Installation window appears, click [Next >].



 When the SAFENET LICENSE AGREEMENT appears, select I accept the license agreement and click [Next >].



5. To proceed with the installation, click [Next >].

jy Sentinel HASP Run-time Setup	
Ready to Install the Application Click Next to begin installation.	
Click the Back button to reenter the installation inform the wizard.	ation or click Cancel to exit
Wise Installation Wizard®	ck Next > Cancel

- 6. After the installation is complete, click [Finish].
 - After installing any required components, the AC Manager Plus Client will launch the InstallShield Wizard. Please wait a moment.

😸 Sentinel HASP Run-time S	etup 🗖 🗉 💌		
	Sentinel HASP Run-time has been successfully installed.		
Sentinel HASP ⁻	The Sentinel HASP Run-time Environment uses port 1947 to communicate with local and remote components. If you use a firewall, ensure that it does not block this port.		
	Click the Finish button to exit this installation.		
	< Back Finish Cancel		

7. Once the AC Manager Plus Client InstallShield Wizard appears, click [Next >] .

AC Manager Plus Client - Insta	IIShield Wizard
E.	Welcome to the InstallShield Wizard for AC Manager Plus Client
	The InstallShield Wizard will install AC Manager Plus Client on your computer. To continue, click Next.
	< Back Next > Cancel

8. Enter the user information and click the [Next >] button.

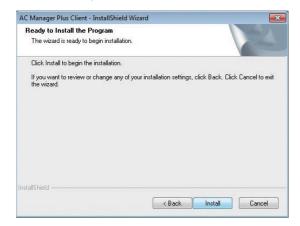
AC Manager Plus Client - InstallShield W	izaiu
Customer Information	Section 19 122
Please enter your information.	
Please enter your name and the name of	the company for which you work.
User Name:	
LGElectronics	
Company Name:	
LGElectronics	
netallShield	
nstallShield	

- 9. Confirm the install location of the AC Manager Plus Client and click [Next >].
 - If you wish to change the install location, click [Change...] and set the desired location.

AC Manager	r Plus Client - InstallShield Wizard			×
	Pestination Location Ider where setup will install files.			
	Install AC Manager Plus Client to:			
	C:\\LG Electronics\ACManagerPlus			Change
InstallShield -				
instanonielo -		< Back	Next >	Cancel

10. To start the installation, click [Install].

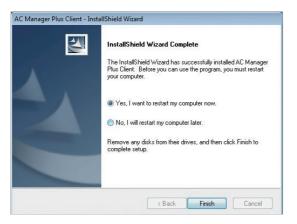
• The AC Manager Plus Client will now be installed.



- 11. After the installation is complete, click [Finish].
 - Before running the program, please make sure that Windows is fully updated.

AC Manager Plus Client - Insta	IIShield Wizard
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed AC Manager Plus Client. Click Finish to exit the wizard.
	< Back Finish Cancel

12. To restart the program, click [Yes, I want to restart my computer now.] and click the [Finish] button.



Deleting AC Manager Plus (Windows 7)

This section explains how to delete AC Manager Plus.

1. (5) > Control Panel > Programs > Programs and Features.

 In the Uninstall or change a program window, highlight AC Manager Plus Client and click [Uninstall].

Control Panel	Programs Programs and Features	• 4	atures P
Control Panel Home View installed updates Turn Windows features on or	Uninstall or change a program To uninstall a program, select it from the list and	d then click Uninstall, Change, or Rep	air.
off	Organize 🔻 Uninstall Change		8= - 🔞
	Name	Publisher	Installed (^
	C Manager Plus Client	LG Electronics	8/21/201
	C Manager Plus Service	LG Electronics	8/20/2012
	Microsoft .NET Framework 4 Client Profile	Microsoft Corporation	8/20/2012
	Microsoft .NET Framework 4 Extended	Microsoft Corporation	8/20/2012

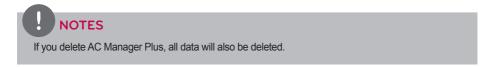
3. When you are prompted to confirm the removal, click [Yes].

AC Manager Plus Client - InstallShield Wizard	8
Do you want to completely remove the selected application and all of its features?	
<u>Y</u> es <u>N</u> o	

4. When the completion window appears, click [Finish].

AC Manager Plus Client - Insta	IIShield Wizard
	Uninstall Complete InstallShield Wizard has finished uninstalling AC Manager Plus Client.
	< <u>B</u> ack Cancel

5. You may be required to restart your system.



Starting and Closing the Program

This section explains how to start and close AC Manager Plus.

Starting the Program

This section explains how to start AC Manager Plus.

- 1. Connect the authentication key to a USB port on the computer with AC Manager Plus.
 - If you attempt to start the program without the authentication key attached, a warning appears. Insert the authentication key and start the program again.

NOTES

- All functions of AC Manager Plus are determined by the approval of the authentication key. Do not remove the authentication key from the computer while operating AC Manager Plus.
- If the authentication key is removed while operating the program, the following warning message pop ups. If you insert the authentication within 30 seconds, the warning window is turned off and the program begins to operate normally.

Can not find Authentication key. If can not solve, the program will be auto end after 30seconds.

4 secs

- 2. 👩 > All Programs > LG Electronics > AC Manager Plus Client > Executing AC Manager Plus.
 - Alternatively, double-click the shortcut icon 💽 on your desktop.
 - AC Manager Plus Program will start.
- 3. In the login window, click [Enter server information].

- 4. After entering the server's IP address, click [Save].
 - This IP address may vary depending on which computer you are logging in from. If this is the server PC, enter the loopback address (127.0.0.1). If this is a client PC, enter the IP address of the server PC.

Enter serve	r information 🛛 🗙	
	t server 1 time IP initially. hanged, re-enter the IP and press the Save button. ank space.	
IP		
	Save Cancel	

5. After entering your ID and password in the login window, click [Login].

	and the second second
	Salter
AC Manager Plus Use the ID and password to log in.	
10 Logn	
Save ID Receive password via email information	
	R
	AC Manager Plus Use the ID and password to log in.

NOTES

The administration login information of AC Manager Plus is as follows.

ID: admin, password: digital21

Use the above information for the first time login and, once logged in, change the password.

Closing the Program

You can exit and close AC Manager Plus as follows.

1. From the AC Manager Plus program, click the **[X]** in the right top corner.



Using the Program

This section explains how to use AC Manager Plus.

Control/Monitoring

This section explains how to control the device and monitor the control status of the device.

Screen Configuration and Features

The screen configuration and features of the Control/Monitoring menu screen are as follows.

AC Manager Plus	Schedule Peak control Energy monitor Report Cycle Set		□ = □ ×
	☆ 小 △ 歩 18 °C 30°C 5	Set Cancel PA Mode Lock Cancel 4% Far	mperature Lock Cancel
Control/Monitoring Installation Multi-side	ON OFF III A IIII A III A IIII A III	By n	
Management Location	44 units running / Total of 61 units / Error(Current) () units	Indoor Unit 19 Ventilator AWHP 10 Chiller	10 AHU 5 15 DI 1 DO 1
	00 00 00 00 00 00 00 00 00 00 00 00 00	AHU_3 AHU_4 AHU_4	18.0°C AWHP_1 AWHP_2
	180°C 180°C 180°C 180°C AWHP_3 AWHP_4 AWHP_5 AWHP_6 AWHP_6	* 🛃 * 🗵 @ 🐼 *	Chiller_2
2-	chiler,4 chiler,5 chiler,6 chiler,7 chiler,6	Chiller_9	Chiller_C
	Chiller_E Chiller_E Chiller_E		Z3.0°C 17.0°C # Indoor Unit_2 Indoor Unit_3
	22.0°C 22.0°C 23.0°C 23.0°C<		0.0°C 10.0°C
	19.0°C	1211 1211 1211	1511 - 1511
	Use statut Working history # Run 1 #Stop 0 #Error 0 Total 1	Schedule control 0 Peak control 0	

No.	Item
1	Toolbars
2	Device List Tab
3	Content Display
(4)	Summary Display

Toolbars

1	Control/Monitor	ing Schedule	Auto control	Energy monitor Report	Cycle Set		A Error 10 Cases
2-	Run Stop	Cool Fan	18 °C ^	Outdoor Air 31° A Exhaust Air 40° A	Mixed Air 50°	All Lock Cancel	
3		Apply sat					Apply Cancel
4	Installation Multi		i 🗰 🖬 🛆 🗄			• Replace filter	6 Size

No.	ltem	Description				
1	AC Manager Plus Menu Tab	Service Menu for AC Manager Plus.				
2	Toolbox Controls	hanges according to devices attached and other variables. For more information, refer to the Toolbox Controls per Device n page 20.)				
3	Apply/Cancel	Changes in the control status triggers this.				
4	Content Filter Button	 Allows you to filter content in the Content Display area by device type or status. Click the boxes of each filter to see or hide the corresponding content. Image: Show active devices. Image: Show devices with a schedule. Image: Show devices controlled by peak and demand. Image: Show devices with errors. Image: Show devices with lock settings. Image: Show devices with ventilators or direct expansions. Image: Show AHU devices. Image: Show AHU devices. Image: Show AHU devices. Image: Show Chiller devices. Image: Show On/Off devices. Image: Show DI devices. Image: Show DO devices. 				
5	Error Alarm	 Shows the number of devices with errors. When selected, it changes to Report > Working history. 				

No.	Item	Description
		• By name: Sorts the devices by their names.
	Sort Selection	• By address: Sorts the devices by their addresses.
6		• By device: Sorts by equipment type.
		• Whether running: Sorts by status; "On", "Error", or "Off".
7	Minimize/Enlarge Device Icon slider	[-] or [+] keys or use the slider to change the size

Toolbox Controls per Device

registered device, the menu of the toolbox controls may differ. The following explains the toolbox controls per device.

NOTES

The exact control limit for a device may differ from the actual device. Please be sure to refer to the manual for the device.

Indoor Device

Co	introl/Ma	nitoring	Sch	edule	Auto	control	Energy	monitor Repor	t Cycle	Set					A Error O Cases
ON) OFF	Ĩ		*	-ờ	\Diamond	吊	~ · ·		\$	⇔ Swing	All Lock Cancel	[]	Lock	Cancel
Run	Stop	A	uto	Cool	Heat	Dry	Fan	-	°C ×	Fan	Set Cancel	Mode Lock Cancel	Stan speed €	Lock	Cancel
	Run			Ru	nning mo	de		Temperature	Limit temp.		Fan		Lock		

ltem	Description							
Run	• [Run] Button: Starts the operation of the device.							
Kuli	• [Stop] Button: Stops the operation of the device.							
	• [Auto] Button: Changes to Auto Mode.							
	[Cool] Button: Changes to Cooling Mode.							
Running	[Heat] Button: Changes to Heating Mode.							
mode	• [Dry] Button: Dehumidifies during rainy seasons or whenever humidity is high. You cannot set the temperature in this mode.							
	• [Fan] Button: Purifies the air. You cannot set the temperature in this mode.							
Temperature	Click [▲]/[▼] to set the temperature.							
Limit temp.	Click [▲]/[▼] to set the temperature limit. This prevents a user from setting the indoor temperature outside the defined range.							
	• Fan: Selects the fan speed.							
	- [Auto] Button: Loops from Low to Medium to High							
Fan	- [High] Button: Fast fan speed.							
гап	- [Mid]: Medium fan speed.							
	- [Low] Button: Slow fan speed.							
	• Swing [Set/Cancel] Button: Turn on or off automatic oscillation of the fan.							
	All [Lock/Cancel] Button: Enables/disables remote control for all features.							
Look	 Mode [Lock/Cancel] Button: Enables/disables remote control for mode selection. 							
Lock	 Temperature [Lock/Cancel] Button: Enables/disables remote control for temperature setting. 							
	• Fan speed [Lock/Cancel] Button: Enables/disables remote control for fans.							

Ventilator or Direct Expansion Ventilator

Cont	rol/Monite	oring S	chedule	Auto cor	ntrol Ener	rgy monitor	Report	Cycle	Set				A Error O Cases
ON	OFF	AUTO	*	2	ş	🐺 Quick	Set	Cancel	Bower save	Set	Cancel	All Lock Cancel	
Run	Stop	Auto	Heat exchange		Fan speed	🗇 Humidif	ier Set		<u>≀≀≀</u> Heater	Set	Cancel		
R	un	F		de	Fan speed			Additiona	I function			Lock	

ltem	Description
Run	• [Run] Button: Starts the operation of the device.
Kuli	• [Stop] Button: Stops the operation of the device.
	[Auto] Button: Changes to Auto Mode.
Running mode	• [Heat exchange] Button: Air supply and emissions are all ventilated through the heat exchanger.
mode	 [Normal] Button: Ventilate emissions without passing through the heat exchanger.
Tomporatura	(Only applicable to the Direct Expansion Ventilator.)
Temperature	Click $[A]/[V]$ to set the temperature.
	Auto : Loops from Low to High to Very High
	- Users cannot select this mode.
	- When set to sleep/rapid mode, fans are automatically set to Auto mode.
	- When sleep/rapid mode is disabled, fans are automatically set to High .
Fan speed	 Sleep/rapid mode is disabled if Very High, High, or Low is selected while Auto operation mode is active.
	Super High: Maximum fan speed.
	• High: Fast fan speed.
	Low: Slow fan speed.
	(Only applicable to the Direct Expansion Ventilator.)
Air	• [Off] Button: Disables air conditioning for the Direct Expansion Ventilator.
Conditioner	[Cool] Button: Changes to cooling mode.
	• [Auto] Button: Automatically changes the mode based on indoor conditions.
	[Heat] Button: Changes to heating mode.
	 Quick [Set/Cancel] Button: Turns Rapid feature on/off. (If Rapid is enabled, Sleep is disabled.)
Additional function	 Humidifier [Set/Cancel] Button: Turns the Humidify feature on/off. (Only when Air Conditioning is in Heating mode.)
Tunction	 Power save [Set/Cancel] Button: Turns Sleep mode on/off. (If Sleep is enabled, Rapid is disabled.)
	• Heater [Set/Cancel] Button: Turns the Heater feature on/off.
Lock	All [Lock/Cancel] Button: Enables/disables remote control for all features.

AHU

	Control/Monitoring Schedule	e Auto-control Energy-monitor Report Cycle Set
ENGLISH	Image: Num Image: Stop Image: Cool Heat Run Figure Figure Figure Figure	Image: Dry Fan state Image: Dry Fan state
IST	ltem	Description
–	Run	• [Run] Button: Starts the operation of the device.
	i tuii	 [Stop] Button: Stops the operation of the device.
	Running mode	 [Cool] Button: Changes to Cooling Mode. [Heat] Button: Changes to Heating Mode. [Fan] Button: Purifies the air. You cannot set the temperature in this mode. Additional options will appear under Operating Modes after registering an AHU. [Power save] Button: Reduces energy consumption by operating in the most efficient way. Emission air is greater than air supply to emit remove air from indoors more effectively.
		- [Dry] Button: Dehumidifies during rainy seasons or whenever humidity is high. You cannot set the temperature in this mode.
	Temperature	Click $[A]/[V]$ to set the temperature.
	Additional	These options only show when add-ons for the AHU are installed.

remperatare	
	These options only show when add-ons for the AHU are installed.
Additional function	• Auto Ventilation [Set/Cancel] Button: Turns Automatic Ventilation on/off.
lanotori	Humidifier [Set/Cancel] Button: Turns Humidification on/off.
Settings	• CO ₂ : Use [▲]/[▼] to set the desired carbon dioxide emissions from 500 ppm to 1,500 ppm in intervals of 100 ppm.(CO ₂ is only settable in Auto Vent)
	• Humidity : Use [▲]/[▼] to set the desired humidity from 40% to 60% in intervals of 5% (the humidify is only settable in the humidity setting.
	 Outdoor Air: Use [▲]/[▼] to set the air intake damper opening value from 0 to 90 SDgr in intervals of 1SDgr.
Degree of opening	 Exhaust Air: Use [▲]/[▼] to set the emission damper opening value from 0 to 90 SDgr in intervals of 1SDgr.
damper	• Mixed Air : Use [▲]/[▼] to set the mixer damper opening value from 0 to 90SDgr in intervals of 1SDgr (the damper opening value is only settable in the Cooling/Heating Fan modes).
Lock	All [Lock/Cancel] Button: Enables/disables remote control for all features.

AWHP / Hydro kit

Control/Monit	oring Schedule	Auto co	ntrol Energy m	onitor Report	Cycle Set	A Error O Cases
ON OFF	Auto Cool	-ò́- Heat	*	"C	All Lock Cancel	
Run	Running mg	de	Air temp	Hot water temp	Lock	

ltem	Description
Run	• [Run] Button: Starts the operation of the device.
Kuli	[Stop] Button: Stops the operation of the device.
	[Auto] Button: Changes to Auto Mode.
Running mode	[Cool] Button: Changes to Cooling Mode.
mode	• [Heat] Button: Changes to Heating Mode.
	(Only operates on Cooling/Heating modes.)
Outlet water temperature*	 Water temperature setting for underfloor cooling and heating.
tompolataro	 Click [▲]/[▼] to set the temperature for Cooling and Heating modes.
Air Temp.*	(Only operates on Cooling/Heating modes.)
All temp.	Click [▲] / [▼] to set the indoor air temperature.
Hot water	• [Run] Button: Starts the operation of the water heater.
HOL WALER	• [Stop] Button: Stops the operation of the water heater.
Hot water temp.	Click [▲]/[▼] to set the water heater temperature.
Lock	All [Lock/Cancel]: Enables/disables remote control for all features.

* When setting the AWHP device, the selected temperature is shown. (Refer to AWHP on page 88)

Chiller

Contr		oring Sch	edule	Auto cont	rol Energy monitor Report Cycle	Set	A Error 10 Cases
ON	OFF		*	-ờ́-	Setting temperature of cooling 7.0 °C	0 * 1	
Run	Stop	Cancel	Cool	Heat	Setting Temperature of Heating 45.0 °C	-	
Ru	in	Alarm	Runnin	ig mode	Temperature	Demand control	

ltem	Description
Run	• [Run] Button: Starts the operation of the device.
Kuli	• [Stop] Button: Stops the operation of the device.
Alarm	[Cancel] button: turns off the alarm issued by the unit.
Running	[Cool] Button: Changes to Cooling Mode.
mode	• [Heat] Button: Changes to Heating Mode.
	 Sets the Load Out temperature for indoor cooling/heating.
Temperature	 Click the [▲]/[▼] buttons to set the temperatures for the cooling and heating modes.
Demand control	Click the $[\blacktriangle]/[\lor]$ buttons to set the Demand Limit.

On/Off device

Control/Monitoring	Schedule Auto control Energy monitor Report Cycle Set	Error O Cases
ON OFF		
Run Stop		
Run		
ltem		
item	Description	
Run	• [Run] Button: Starts the operation of the device.	

DO

Control/Monitoring	Schedule	Auto control	Energy monitor	Report	Cycle	Set	▲ Error 0 Cases
00 00							
Short Circuit Open							
Run							
ltem						Description	
Item Run	•	[Short	Circuit] B	Button	: Sho	Description rt signal output.	

Device List Tab

Explains the Tab of Device List.

1	2	3	4
Installation Multi-side Management Location Unregistered control s AWHP Chiller DI	Installation Multi-side Management Location List Mini map ▼ 123 4[sdf] 10[adf]	Managemer. Location Installation Multi-side	Managemer, Location Installation Multi-side Ventialor(2) DX-HRV(13) AHU(4) AWHP(25) On/Off device(1) DI(1) DO(2) Chiller(9) Ventialor(2) ON(25) OFF(28) Error(10) Ventialor(2) Ventialo

No.	ltem	Description
1	Management	List of management devices for user convenience.
2	Location	A floor plan showing control and management for each device.Includes a mini-map.
3	Installation	Provides information on all connected devices.
4	Multi-side	A list sorted into three groups: Devices, Status, and Other.Displays histories based on the selected items.

Content Display

The setting status of a device is displayed as follows.



No.	ltem	Description		
1	Group Display	Displays the management group name, number of active devices, number of installed devices and number of errored devices		
2	Installed Device Count	Displays the number of installed devices in each group. (Set or Cancel this under Set .)		
3	Content Details	 Large icon Large icon Device status icon Device icon / operation status Current temp / current temp / operation mode Device address Medium icon		

Content Display Icons

Device Status Icons

	lcon		Status
Enlarge	Normal	Small	Status
	• (Green)	-	Replace filter
÷	 (Orange) 	-	Lock all
Π	 (Purple) 	-	Peak control
E	• (Blue)	-	Schedule control

Summary Display

0

2

Use status Working history 13 9 2 15 ventilato 4 AWHP 1 DI 2 DX-HRV 25 Chiller 1 DO Run 58 Stop 4 Error 10 Total 72 U AHU On/Off device (1 Peak control 0 Use status Working history Working history Warning

No.	ltem	Description
1	Use status	Shows the current status of the selected device.
2	Working history	Shows the operation history of the device.

Device Control

You can control the registered device by setting it to the desired state.

- 1. In the menu bar at the top, click **Control/Monitoring**.
- 2. Click the desired tab in the Device List.

ltem	Description		
Management	List of management devices for user convenience.		
Location	A floor plan showing control and management for each device.Includes a mini-map.		
Installation	Provides information on all connected devices.		
Multi-side	A list sorted into three groups: Devices, Status, and Other.Displays histories based on the selected items.		

- 3. Select the device you wish to manage in the list.
 - You can control multiple devices at the same time. Drag selected devices to the Content Display. Hold <Ctrl> to individually select multiple devices. If you want to choose all devices in a group, check the check box for the selected group. Depending on the types of devices chosen, the control box is limited.
- **4.** Use the Toolbox to set the control state of the selected device.
- 5. When you have completed making changes, click [Apply] .

Monitoring Devices

You can check the control state of registered devices.

- 1. In the menu bar at the top, click **Control/Monitoring**.
- 2. Click the desired tab in the Device List.
- 3. Click the filter button of the device type or status in the Content Display.
 - Multiple filters can be selected, excluding on or OFF.
 - Select the content information of the corresponding part.

ltem	Description
ON	Show active devices(off cannot select with)
OFF	Show inactive devices (on cannot select with)
	Show devices with a schedule.
m	Show devices controlled by peak and demand.
\triangle	Show devices with errors.
毘	Show devices in need of a filter replacement.
e	Show devices with lock settings.
	Show indoor devices.
*	Show devices with ventilators or direct expansions.
s	Show AHU devices.
[22]	Show AWHP / Hydro kit devices.
0	Show Chiller devices.
	Show On/Off devices.
Los Contraction of the second	Show DI devices.
*003 2003	Show DO devices.

- 4. Please see the device information in the Content Display.
 - You can reduce/enlarge the size of the device icons with the slider.
- 5. To set the control status details of a device, double-click its icon.
 - This moves you to the detailed information display of the selected device.
- 6. If you want to return to the monitoring screen, click the device list or click [Go to Main menu].

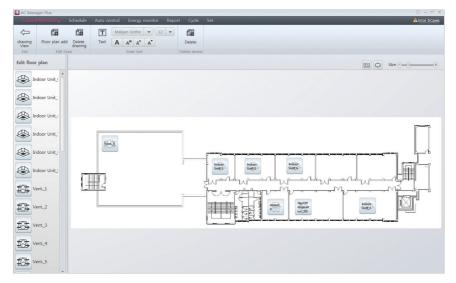
Editing the Floor Plan

You may edit the floor plan by selecting the Location tab in the Control/Monitoring menu.

- 1. In the menu bar at the top, click **Control/Monitoring**.
- 2. Click the **Location** tab in the Device List.
 - The floor plan opens.



- 3. Click [Editing] button.
- 4. The floor plan editor opens.



- 5. To add a floor plan, click [Floor plan add].
- 6. If the file import window appears, select the floor plan file you wish to use and click [Open].
 - The selected image will appear in the floor plan editor.
- **7.** To add a device to the floor plan, select the device in the device list and drag it onto the floor plan.
- 8. To add or edit text on the floor plan, use the Enter Text control in the Toolbox.



ltem	Description					
	• Text: Inserts a text box into the floor plan.					
	• Font: Click [▼] to select the desired font from a list.					
	• Font size: Click [▼] to select the desired font from a list.					
Enter Text	• Bold : Change the text to boldface.					
	• Color : Select the desired font color from a palette.					
	• Larger: Increases the font size by 1 pt.					
	• Smaller: Decreases the font size by 1 pt.					

- 9. When you have completed making changes, click [Apply] .
- 10. To move to the main floor plan screen, click [drawing View].

NOTES

- To add a floor plan, you can only use jpg, bmp or png format.
- To add a floor plan, 2MB or less image size is recommended. If the size is exceeded, the alarm popup appears.

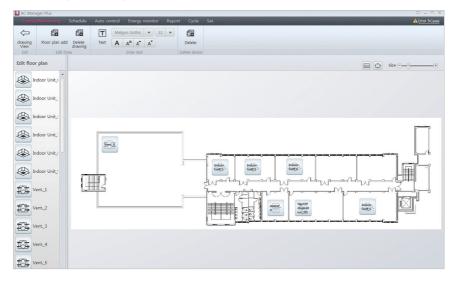
Deleting the Floor Plan

You can delete the added floor plan.

- 1. In the menu bar at the top, click **Control/Monitoring**
- 2. Click the Location tab in the Device List.
 - The floor plan opens.

AC Manager Plus							$\infty = -\infty$
Control/Monitoring	Schedule	Auto control	Energy monitor	Report	Cycle	Set 🖌	Error 5 Cases
ON OFF							
Run all Stop all							
Run							
Control/Monitoring						😥 Size $\overline{-}(1)$	
Installation Multi-side							•
Management Location	Select a	II Editing					
List Mini map							
▼ Group1							
4[Group1-1]							

- 3. Click [Editing] button.
 - The floor plan editor opens.



- 4. To delete a floor plan, click [Delete drawing].
 - The floor plan is deleted.

AC Mana	iger Plus											-	$2 = \Box \times$
Control	/Monitoring	Schedule	Auto cor	itrol Ener	gy monitor	Report	Cycle	Set	t		_	A	Error 5 Cases
\Leftrightarrow			T	Malgun Got	hic 💌 12	- 1	1						
drawing View	Floor plan add		Text	A A.	A A		elete						
Exit	Edit Dra			Enter		Delet	e device						
		Apply setti	ng?									Apply	Cancel
Edit floor	plan												
												Size 👘	
in 🏵	door Unit_												
(door Unit_												
~													
in	door Unit_:												
an 🛞	door Unit_												
la 🏵	door Unit_								Add a floor p	lan			
									Devices can be managed of	on the floor plan.			
line 🐼	door Unit_								Floor plan a	dd			
in 😓	door Unit_												
S	and only												
🛞 In	door Unit_												
6.													
in	door Unit_i												
in 🏵	door Unit_												
#The ve	ent. 0 -												

Schedule

The Schedule feature allows you to program the behavior of the devices. If a device must adhere to a certain schedule, you can program the device to operate only at scheduled times. Scheduled devices do not activate unless programmed to do so and are managed centrally. This can significantly reduce energy consumption.

Creating Schedules

Follow these steps to add a schedule.

- 1. In the menu bar at the top, click **Schedule**.
- 2. From the Toolbox, click [New schedule].
 - The new schedule screen opens.

AC Manager Plus									0 – D X	
Control/Monitoring	Schedule Aut	o control	Energy mon	itor F	leport Cycle	Set			A Error 96 Cases	
Ð										
Go to Schedule main menu	Delete									
Exit	Group									
Schedule	Save schedule?								Apply Cancel	
Schedule	Save scheduler								, Addit i Californi	-(1)
≪ ≪ 2013. 3 ► ►	LGE2									1
SurMoTueWeTht Fri Sat						(
24 25 26 27 28 1 2	Repeat						Exception date Load	d saved data	×	
3 4 5 6 7 8 9 10 11 12 13 14 15 16	Start date			Once			2012-12-22	dayoff	X	
17 18 19 20 21 22 23	2013-03-16				late is not designate	ed	2012-12-22	uayon		
24 25 26 27 28 29 30 31 1 2 3 4 5 6	Everyday				nate end date		2012-12-24	dayoff2	x	_(2)
	Every			2013-0	3-16		Enter exception date			
✓ LGE1 ■	Repeated dat	e					citter exception date			
🛃 LGE2 =	Mon 🐼 Tu	ie 🗑 Wed 🗑	Thu 🐼 Fri (🕑 Sat 🔙	Sun					
							<u></u>			
	Registered de	wice							Edit device	
	-		Address	ACP	Control group	Location			cont donce	
		HP_2		ACP:01		Location				
		HP_2 HP_3	02	ACP:01						
		HP_4	03	ACP:01						
		HP_1	01	ACP:01						
	AWITE AW	nr_1	01	ACFIUI	1011					 (3)
										Ŭ
	Event									
	1. 00 🗘	: 00 🔹							x X	
	AWHP & Hyd	iro kit								
			8 ale	×		0	4	0		
	(N) (0)	- Note		-Ò-	* ^	ON	OFF C	All Lock Cancel		
	Run St	op Aut	o Cool	Heat		Run	Stop +			
	Run		Running mod	e	Air temp.	Hot wat	er Hot water temp.	Lock		-(4)
	2. 06 🔹	: 00							m ×	Ð
	AWHP & Hyp									
			ه الد	14		0				
	())			- <u>;</u> ¢-	× ^	\$.	SIF	All Lock Cancel		
	Run St	op Aut	o Cool	Heat		Run	Stop +			
	Run		Running mod	e	Air temp.	Hot wat	er Hot water temp.	Lock		

No.	ltem	Description
1	Name & Schedule	Set the schedule name, start date, end date, and days of operation.
2	Exception date	Manage exception days.
	3 Device List	Displays information on registered devices.
3		• [Edit device] Button: Add or delete a device.
		Create events for the selected device.
		Entering Times
		- Click [▲]/[▼] to set the time.
		- Valid entries are in the 00:00 - 23:50 range in 10 minute intervals.
(4)	Events	Device Settings
	LVEIILS	 The available device tabs depend on the device selected in the Device List. Use these controls to set behavior.
		• [Add event] Button: Create an additional event.
		• 🛅 Button: Copies the current event.
		Eutton: Deletes the current event.

- 3. Enter a name for the schedule in the window.
- 4. Click the start date to select a day from a calendar.
- 5. Select the desired end date.

ltem	Description
Once	Apply the schedule on the start date and no other days.
Office	 You cannot specify repeat days with this setting.
End date is not designated	This schedule repeats until ended manually.
End dates	Select the last day of operation. Click the date to open a calendar.

6. Select repeat dates to repeat the schedule.

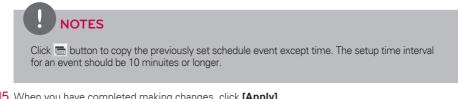
ltem	Description
Everyday	Repeat every day from the start date to the end date.
Every	Select the desired days of the week. The schedule activates on these days every week from the start date to the end date.

- 7. To set exception dates, click [Load saved data].
 - The exception dates are imported from the system settings and displayed.
- 8. To manually add new exception dates, click manually add new exception dates to add.
- 9. Add an exception name in the name box.
- 10. In the Device List, click [Edit device].
 - The edit device window opens.

- **11.** In the unregistered devices list, click the group that the device you want to register belongs to and click [4] button.
 - To regester multiple groups at a time, tick the checkbox for the groups you want to register and click [4] button.
 - The selected devices are added to the device list.

gistered dev	rice (4)	Reset	Unregistered device (89)
evice name	ACP	Control group	EGE1
WHP_1	test1111wertyui	LGE1	▼ □ LGE2
WHP_2	test1111wertyui	LGE1	AHU_4
WHP_3	test1111wertyui	LGE1	AHU_5
WHP_4 test1111wertyui LGE1		LGE1	AHU_6
			AWHP_7
			AWHP_8
			AWHP_9
			MChiller09
			MChiller0A-1
			► □ LGE3
			Unregistered control group
		• •	

- 12. After registering a device, click [Save].
- 13. To add a new event, click [Add event].
- 14. In the Events list, use [▲]/[▼] to set the desired time, then select the control status.



15. When you have completed making changes, click [Apply] .

Setting Exceptions

You can import and edit the exception dates that are already set in the system. You can also add additional exception dates.

Importing Exceptions

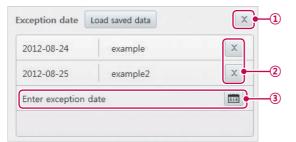
You can import the exception dates that are already set in the system, as follows.

- 1. In the Schedule screen, click [Load saved data].
 - The exception dates are imported from the system settings and displayed.
- 2. To save these settings, click [Apply].

Adding or Deleting Exceptions

You can add or delete exception dates as desired, as follows.

1. Add or delete exceptions dates from the Schedule screen.



No.	ltem	Description
1	Delete All	Delete all listed exception dates.
2	Delete Selected	Delete the selected exception date.
		Add an additional exception date.
3	Add Exception	 Enter a name for the exception in the input box.

2. To save these settings, click [Apply].

Checking Schedules

Follow these steps to check a schedule.

- 1. In the menu bar at the top, click **Schedule**.
 - The schedule screen opens.

	_			_	_	_	_		_	_	
itoring	Schedule	Auto control	Energy mo	onitor Repor	t Cycle :	Set					
🕮 Edit	Refere	nce date 2012-08	-16 📖	£		-					
Delet				View history	Save as file	Print					
ip		View		History	Export	t		_			
						∢ 2012	8. 16 Thursday				
8		schedule1	sch	iedule2	schedule	3	schedule4				
d'Thu Fri Sat	00:00				00:00						
234			_								
0 10 11 6 17 18	01:00										
23 24 25	02:00										
031 1 578											
	03:00										
Stop all											
By action	04:00	04:00									
le1 = 🔹	05:00										
ile3 • •	05.00										
ile4 = 🔹	06:00										
	07:00										
	08:00		-								
	08:00			00:80							
	09:00										
	10:00										
	11:00										
	12:00										
	13:00										

No.	ltem	Description
(1)	Dates	Shows the date currently displayed below.
Ū.	① Dates	 Click [4]/[>] to change the currently displayed date.
		Check the box to show the selected schedule.
② Event Display	 Schedules are shown by color, date, and name (You cannot manually set the schedule color). 	
		A summary of the selected schedule.
3	3 Summary	 Provides information about the schedule name, duration, repeats, and devices.
		Displays settings according to time.

2. Select the date to display on the calendar or in the Toolbox.

3. Select a viewing mode to see the schedule.

Item	Description
	Day View
	Week View
	Month View

- 4. Select the schedule item you wish to see from the schedule list.
 - To select multiple schedules, check the box at the beginning of the list.
 - The settings screen for the selected schedules appears.
- If you want to batch start the selected schedules, click [Start All]. To batch stop the selected schedules, click [Stop All].
 - To start a single schedule, click [▶] by the schedule name. To stop a running schedule, click [▶].
 - To save the schedule settings as a file, click **[Save as file]**. When the file save screen appears, enter a file name and click **[Save]**.
 - To print the schedule, click [Print].

Editing Schedules

You can change the settings for schedules that are currently listed.

1. In the menu bar at the top, click **Schedule**.

Control/Monitoring	Schedule	Auto control	Energy mo	onitor Repor	: Cycle Set	-		A Error 0 Cases
Edit	Referenc	e date 2012-08	16	6	9			
New schedule Delete	. 📼	TW.	M	View history	Save as file Print			
Group		View		History	Export			
Schedule					∢ 2012	. 8. 16 Thursday 🕨		
≪		schedule1	sch	edule2	schedule3	schedule4		
Sun Mon Tue Wed Thu Fri Sat	00:00				00:00			
29 30 31 1 2 3 4								
5 6 7 8 9 10 11	01:00							
12 13 14 15 16 17 18								
19 20 21 22 23 24 25 26 27 28 29 30 31 1	02:00							
2 3 4 5 6 7 8								
Start all Stop all	03:00							
By name O By action	04:00	04:00						
🖌 schedule1 = 💿	_		-					
🖌 schedule2 = 🜘	05:00							
🖌 schedule3 = 🜘								
Schedule4 =	06:00							
(g) third divi								
	07:00							
	08:00			00:80				
	09:00							
	03.00							
	10:00							
	11:00							
	12:00							
	13:00							
	Summary							
	schedule1	E	04:00) Indoor Unit : Ru) Indoor Unit : Ru	n(Run), Lower limit temper n(Run), Lower limit temper	ature(16), Upper limit temp ature(16), Upper limit temp	erature(30), Running mode(Cool), Set temp.(22) erature(30), Running mode(Auto), Set temp.(24)	
	Indoor Unit							

2. Select the schedule you wish to modify from the list.

3. Click [Edit].

• The schedule screen opens.

ain menu Delete							
Group	_						
Group							
LGE2							
Fri Sat					Exception date Load	saved data	X
1 2 Start date		Once					
8 9 2013-03-16			late is not designati	ed	2012-12-22	dayoff	x
15 16 22 23 O Everyday		O Desig	nate end date		2012-12-24	dayoff2	x
29 30 🔘 Every		2013-0	3-16		Enter exception date		
5 6 Repeated da	te				cinter exception date		
Mon 🕑 T	ue 🕑 Wed 💽 Thu	🕑 Fri 🕑 Sat 🛛	🖉 Sun				
Registered d	levice						Edit device
Type Dev	vice name Addre	ACP	Control group	Location			
AWHP AV	VHP_2 02	ACP:01	LGE1				
AWHP AW	VHP_3 03	ACP:01	LGE1				
	VHP_4 04	ACP:01	LGE1	_			
AWHP AW	VHP_1 01	ACP:01	LGE1	_			
Event							
1. 00	: 00						×
AWHP & Hy	/dro kit						
(ON) (* ×		£₽.	۹ •••	All Lock Cancel	
		cool Heat	*	Run	Stop +		
Run		ng mode	Air temp.	Hot w		Lock	
		ig move	en temp.	NOT W	not water temp.	LUXA	[1000]
2. 06	: 00 🗘						×
A1481D 8: 11	/dro kit						
Awnr & ny				2	4	All Lock Cancel	
		* ÷¢-	°C *	5	OFF °C	All LOCK Caller	

No.	Item	Description
1	Name & Schedule	Modify the schedule name, start date, end date, and days of operation.
2	Exceptions	 Manage exception days. [Load saved data] Button: Import a list of exception dates from system settings.
3	Device List	 Displays information on registered devices. [Edit device] Button: Add or delete a device.

No.	ltem	Description
		Create events for the selected device.
		Entering Times
		- Click [▲]/[▼] to set the time.
		- Valid entries are in the 00:00 - 23:50 range in 10 minute intervals.
	Events	Device Settings
4	Events	 The available device tabs depend on the device selected in the Device List. Use these controls to set behavior.
		• [Add event] Button: Create an additional event.
		• 🛅 Button: Copies the current event.
		• 🔀 Button: Deletes the current event.

- **4.** Modify the desired schedule.
- 5. When you have completed making changes, click [Apply] .

Deleting Schedules

Follow these steps to delete a schedule.

- 1. In the menu bar at the top, click **Schedule**.
- 2. Select the schedule to delete in the schedule list.
- 3. From the Toolbox, click [Delete].
- 4. When you are prompted to confirm the deletion, click [OK].
 - The selected schedule is then deleted and removed from the list.

View history

View a history of scheduled activity in this log.

- 1. In the menu bar at the top, click **Schedule**.
- 2. From the Toolbox, click [View history].
 - The log report appears.

orking history Installation Report		Current E	Period setting Period Period	2013-02-10 2013-03-11		Ventilator	AWHP Temperature limit	Error
Vorking history N	umber of e	vents : 10 Date	e range : 20	13-02-10 ~ 20	13-03-11			
Date time	Category	Device name	Address	Device type	Main agent	Reference Code	Detail	Locatio
2013-03-08 AM 10:16	Control	00	00	ACP	ACM	Schedule	Change other setting information	-
2013-03-08 AM 10:23	Control	00	00	ACP	ACM	Schedule	Change other setting information	-
2013-03-08 PM 04:22	Control	00	00	ACP	ACM	Schedule	Change other setting information	-
2013-03-08 PM 04:27	Control	00	00	ACP	ACM	Schedule	Change other setting information	-
2013-03-08 PM 04:29	Control	00	00	ACP	ACM	Schedule	Change other setting information	-
2013-03-08 PM 04:35	Control	00	00	ACP	ACM	Schedule	Change other setting information	-
2013-03-08 PM 04:35	Control	00	00	ACP	ACM	Schedule	Change other setting information	2
2013-03-08 PM 04:36	Control	00	00	ACP	ACM	Schedule	Change other setting information	-
2013-03-08 PM 04:36	Control	00	00	ACP	ACM	Schedule	Change other setting information	2
2013-03-10 PM 03:36	Control	00	00	ACP	ACM	Schedule	Change other setting information	-

- 3. To save the log as a file, click [Save as file]. When the file save screen appears, enter a file name and click [Save].
- 4. To print the log, click [Print].

Auto Control

Auto control allows you to change power consumption or control external devices by linking to them. You can also set the indoor temperature to automatically change according to outdoor conditions or activate devices for certain periods of time.

NOTES

If you change the control value of the device in the Auto Control mode, the existing Auto Control values are cancelled.

Peak Control

Peak control limits the peak power consumption. You can set the target operating rate so that the total power consumption does not exceed this limit. To prevent power consumption from exceeding the limit, the system will automatically change cooling mode to fan mode and cancel heating mode.

- 1. In the menu bar at the top, click **Auto control**.
- 2. From the Toolbox, click [Peak control].
 - The peak control screen opens.

ac control Run RepPly peak control Outdoor unit capacity control Importanting table Acp Ito Bisectonice ACP Division Control method Run Reportanting table Current operation choose over time (Minutese) Operation choose over time (Minutese) 100 Bisectonices ACP 10 20 30 40 50 60 70 80 90 10000 0 40 5 5 All Division name Run Room temp. Sett temp. Mode 100.11 Run 22.07C 18.07C Cool 100.11 100.13 Stop 23.07C 18.07C Cool 100.11 100.13 Stop 18.07C Cool 100.11 100.13 18.07C 18.07C Cool 100.11 <th>Error O Cases</th> <th>_</th>	Error O Cases	_
All DDU_11 Run 230°C 180°C Cod ODU UDU_12 Step 230°C 180°C Cod IDU_13 Step 230°C 180°C Cod Integration IDU_14 Step 230°C 180°C Cod Integration Integration		
DDU.12 Stop 23.0°C 18.0°C Cool IDU.13 Stop 23.0°C 18.0°C Cool IDU.14 Stop 23.0°C 18.0°C Cool IDU.15 Stop 23.0°C 18.0°C Cool IDU.16 Run 23.0°C 18.0°C Cool IDU.18 Run 23.0°C 18.0°C Cool IDU.18 Run 23.0°C 18.0°C Cool IDU.18 Run 23.0°C 18.0°C Cool IDU.16 Run 23.0°C 18.0°C Cool IDU.17 Run 23.0°C 18.0°C Cool IDU.16 Run 23.0°C 18.0°C Cool IDU.16 Run 23.0°C 18.0°C Cool IDU.10	•	
IDU_13 Stop 23.0°C 18.0°C Cod IDU_14 Stop 23.0°C 18.0°C Cod IDU_15 Stop 23.0°C 18.0°C Cod IDU_16 Run 23.0°C 18.0°C Cod IDU_16 Run 23.0°C 18.0°C Cod IDU_17 Run 23.0°C 18.0°C Cod IDU_18 Run 23.0°C 18.0°C Cod IDU_18 Run 23.0°C 18.0°C Cod IDU_18 Run 23.0°C 18.0°C Cod IDU_19 Run 23.0°C 18.0°C Cod IDU_18 Run 23.0°C 18.0°C Cod IDU_1D Run 23.0°C 18.0°C Cod IDU_1D Run 23.0°C 18.0°C Cod IDU_1D Run 23.0°C 18.0°C Cod IDU_10 Run 23.0°C 18.0°C Cod IDU_10 R		
IDU,14 Stop 23.0°C 18.0°C Code IDU,15 Stop 23.0°C 18.0°C Code IDU,16 Run 23.0°C 18.0°C Code IDU,16 Run 23.0°C 18.0°C Code IDU,17 Run 23.0°C 18.0°C Code IDU,17 Run 23.0°C 18.0°C Code IDU,18 Run 23.0°C 18.0°C Code IDU,10 Run 23.0°C 18.0°C Code IDU,20 Run 23.0°C 18.0°C Code IDU,23		
IDU_15 Stop 23.0°C 18.0°C Cod IDU_16 Run 23.0°C 18.0°C Cod IDU_17 Run 23.0°C 18.0°C Cod IDU_17 Run 23.0°C 18.0°C Cod IDU_18 Run 23.0°C 18.0°C Cod IDU_16 Run 23.0°C 18.0°C Cod IDU_16 Run 23.0°C 18.0°C Cod IDU_17 Run 23.0°C 18.0°C Cod IDU_18 Run 23.0°C 18.0°C Cod IDU_18 Run 23.0°C 18.0°C Cod IDU_20 Run 23.0°C 18.0°C Cod IDU_23 Run		
IDU_16 Run 23.0°C 18.0°C Cod IDU_17 Run 23.0°C 18.0°C Cod IDU_18 Run 23.0°C 18.0°C Cod IDU_18 Run 23.0°C 18.0°C Cod IDU_19 Run 23.0°C 18.0°C Cod IDU_19 Run 23.0°C 18.0°C Cod IDU_18 Run 23.0°C 18.0°C Cod IDU_18 Run 23.0°C 18.0°C Cod IDU_1D Run 23.0°C 18.0°C Cod IDU_1E Run 23.0°C 18.0°C Cod IDU_1D Run 23.0°C 18.0°C Cod IDU_1D Run 23.0°C 18.0°C Cod IDU_1D Run 23.0°C 18.0°C Cod IDU_20 Run 23.0°C 18.0°C Cod IDU_20 Run 23.0°C 18.0°C Cod IDU_23 Run<		
IDU_17 Run 23.0°C 18.0°C Cool IDU_18 Run 23.0°C 18.0°C Cool IDU_19 Run 23.0°C 18.0°C Cool IDU_14 Run 23.0°C 18.0°C Cool IDU_15 Run 23.0°C 18.0°C Cool IDU_18 Run 23.0°C 18.0°C Cool IDU_18 Run 23.0°C 18.0°C Cool IDU_19 Run 23.0°C 18.0°C Cool IDU_10 Run 23.0°C 18.0°C Cool IDU_116 Run 23.0°C 18.0°C Cool IDU_116 Run 23.0°C 18.0°C Cool IDU_120 Run 23.0°C 18.0°C Cool IDU_20 Run 23.0°C 18.0°C Cool IDU_21 Run 23.0°C 18.0°C Cool IDU_23 Run 23.0°C 18.0°C Cool IDU_24 <td></td> <td></td>		
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IDU_LE Run 23.0°C 18.0°C Cool IDU_LF Run 23.0°C 18.0°C Cool IDU_LF Run 23.0°C 18.0°C Cool IDU_20 Run 23.0°C 18.0°C Cool IDU_21 Run 23.0°C 18.0°C Cool IDU_22 Run 23.0°C 18.0°C Cool IDU_23 Run 23.0°C 18.0°C Cool IDU_24 Run 23.0°C 18.0°C Cool IDU_23 Run 23.0°C 18.0°C Cool IDU_24 Run 23.0°C 18.0°C Cool IDU_25 Run 23.0°C 18.0°C Cool		
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IDU_21 Run 23.0°C 18.0°C Cool IDU_22 Run 23.0°C 18.0°C Cool IDU_23 Run 23.0°C 18.0°C Cool IDU_24 Run 23.0°C 18.0°C Cool IDU_23 Run 23.0°C 18.0°C Cool IDU_24 Run 23.0°C 18.0°C Cool IDU_25 Run 23.0°C 18.0°C Cool		
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IDU_24 Run 23.0°C 18.0°C Cool IDU_25 Run 23.0°C 18.0°C Cool		
IDU_25 Run 23.0°C 18.0°C Cool		
IDU_26 Run 23.0°C 18.0°C Cool		
IDU_27 Run 23.0°C 18.0°C Cool		

No.	ltem	Description
		• Run
		 [Apply peak control] Button: Activates peak control for the selected ACP.
		 [Cancel peak control] Button: Deactivates peak control for the selected ACP.
		Control Methods
		 Outdoor unit capacity control function: Applies limits to out- door units to control outdoor limits.
		 Priority Control: Applies limits according to the priority of each ACP.
		Operation rate Bar
1	Control Info Display	 This graphical bar shows the current operation rate and the target operation rate of indoor units.
		 You can drag the triangle slider() to change the target operation rate.
		Current operation rate (%)
		 Shows the percentage of currently operating units from all entire indoor ACP units (blue bar).
		Target operation rate (%)
		 Click [▲]/[▼] to set the desired operation rate (green bar).
		 SOperation Change over time (Minutes)
		- Click $[\blacktriangle]/[\lor]$ to set the time in minutes to force operation to stop.
		- You can set this from 5 to 15 minutes.
2	Operation Status	Shows device name, activity, current temperature, set temperature, and operation mode.

- **3.** Select the ACP you wish to control from this list.
 - The ACP settings are then shown to the right of the list.
- 4. Select the control status in the control status display.
- 5. To apply control settings, click [Apply].
 - The control settings are then saved.
- 6. To activate the selected group, click [Apply peak control] or [>] next to the group name.
 - To deactivate the group, click [Cancel peak control] or [] next to the group name.
- 7. To apply all peak controls to registered ACPs, click [Apply to all]. To disable all peak controls, click [Cancel all].



- Depending on the installation site specifications, either of the peak control and demand control can be selected. Go to Set > System setting > Basic setting. In Select peak/demand controll select a desired control method.
- The peak control is only limited to the indoor device and you can not register other devices such as ventilator or AHU, except a indoor device.

Editing Groups

Follow these steps to change group settings at the bottom of the ACP.

- 1. In the menu bar at the top, click Auto control.
- 2. From the Toolbox, click [Peak control] and select an ACP.
- 3. Click [Edit].
 - The peak control group edit screen opens.

AC Manager Plus Control/Monitoring	Schedule Auto co	introl Energy n	nonitor Report	Cycle Set			_	CC = ET X
outdoor unit								
Exit Apply all Peak control								
	Edit gro p LG Elec	tronics ACP Add	new group					
Apply to all Cancel all	ODU(26) X							
	000(26) ×	_						
All ACP	Group name	DU	P	riority 🔘 Very lo	v 🔘 Low 🔘 Normal	🔵 High 🔵 Very high		
LG Electronics ACP	Registered devic					Edit device		
						contractice	1	
	Device name	Address	ACP	Control group	Location	<u> </u>		
	IDU_11	ACP:00_IDU_11	LG Electronics ACP		123 10[adf]			
	IDU_12	ACP:00_IDU_12	LG Electronics ACP	Pricipal's office	123 10[adf]			
	IDU_13	ACP:00_IDU_13	LG Electronics ACP	Pricipal's office	123 10[adf]			
	IDU_14	ACP:00_IDU_14	LG Electronics ACP	Pricipal's office	123 10[adf]			
	IDU_15	ACP:00_IDU_15	LG Electronics ACP	Pricipal's office	123 10[adf]			
	IDU_16	ACP:00_IDU_16	LG Electronics ACP	Pricipal's office	123 10[adf]			
	IDU_17	ACP:00_IDU_17	LG Electronics ACP	Pricipal's office				
	IDU_18	ACP:00_IDU_18	LG Electronics ACP	Pricipal's office				
	IDU_19	ACP:00_IDU_19	LG Electronics ACP	Pricipal's office	123 10[adf]			
	IDU_1A	ACP:00_IDU_1A	LG Electronics ACP	Pricipal's office	123 10[adf]			
	IDU_1B	ACP:00_IDU_1B	LG Electronics ACP	Pricipal's office	123 10[adf]			
	IDU_1C	ACP:00_IDU_1C	LG Electronics ACP	Pricipal's office	123 10[adf]			
	IDU_1D	ACP:00_IDU_1D	LG Electronics ACP	Pricipal's office				
	IDU_1E	ACP:00_IDU_1E	LG Electronics ACP	Pricipal's office	123 10[adf]			
	IDU_1F	ACP:00_IDU_1F	LG Electronics ACP	Pricipal's office	123 10[adf]			
	IDU_20	ACP:00_IDU_20	LG Electronics ACP	Pricipal's office	123 10[adf]			
	IDU_21	ACP:00_IDU_21	LG Electronics ACP	Pricipal's office	123 10[adf]			

No.	ltem	Description
1	Group Tabs	All registered groups are shown as tabs.
2	Group Name	Enter or modify the group name in this textbox.
3	Group Priority	Choose the priority of the group: Very low, Low, Normal, High, Very high
(4)	[Edit device] Button	Opens a window to edit the device list (add or remove).
5	Device List	Displays a list of devices registered in the selected group.

- **4.** You can group multiple outdoor units together, or add or delete specific units from a group. Edit the selected group to your desired preferences
 - For details about grouping outdoor units, refer to Applying to Outdoor Units on page 48.
 - For details about adding groups, refer to Adding Groups on page 48.
 - For details about deleting groups, refer to **Deleting Groups** on page 49.
- 5. To apply control settings, click [Apply].
 - The control settings are then saved.

Applying to Outdoor Units

You can group multiple outdoor units (registered in ACP) together.

- 1. To apply settings to outdoor units registered to the ACP, click [Apply by outdoor unit].
 - Peak control is applied to that group.
- 2. To save these settings, click [Apply].

Adding Groups

Follow these steps to add a new group.

- 1. To add a group, click [Add group].
 - The add group screen opens.
- 2. Enter a name for the group in the group name textbox.
- **3.** Set the priority of the group.
- 4. To add a device, click [Edit device].
 - The edit device screen opens.
- 5. Check the box of unregistered devices you wish to add and click [4].
 - You can only add indoor units for peak control.
 - To add multiple devices at one time, check multiple boxes before clicking [4].
 - The selected devices are added to the device list.

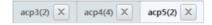
egistered dev	rice (25)	Reset	Unregistered device (1)	
Device name	ACP	Contro 🔺	▼ □ LG Electronics ACP	
(DU_12	LG Electronics ACP	Pricipa	▶ 🔲 ODU	
(DU_13	LG Electronics ACP	Pricipa		
IDU_14	LG Electronics ACP	Pricipa		
IDU_15	LG Electronics ACP	Pricipa		
IDU_16	LG Electronics ACP	Pricipa	•	
IDU_17	LG Electronics ACP	Pricipa		
IDU_18	LG Electronics ACP	Pricipa	►	
IDU_19	LG Electronics ACP	Pricipa		
IDU_1A	LG Electronics ACP	Pricipa		
IDU_1B	LG Electronics ACP	Pricipa		
IDU_1C	LG Electronics ACP	Pricipa 👻		
•		>		

- 6. To accept changes to the list, click [Save].
- 7. To save these settings, click [Apply].

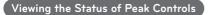
Deleting Groups

Follow these steps to delete a group from the group list.

- 1. Click the [X] on the tab of the group you wish to delete.
 - The selected group is deleted and the tab removed.



2. To save these settings, click [Apply].



Follow these steps to view the status of current peak controls.

- 1. In the menu bar at the top, click Auto control
- 2. From the Toolbox, click [Peak control], then click [View peak control status] .
 - The peak control status screen opens.

Cottod/Monitoring Schedul Auto control Rengy monitor Report Cycle Set Auto restrict Image: Set and the set of the set o		💷 — 🗉 🔺 Error O Case						Set	ycle		0		Factor 10		Schedule Auto contro	Manager Plus ntrol/Monitoring	_
Apply to Cancel all all ACP LG Electronics ACP LG Electronics ACP LG Electronics ACP LG Electronics ACP			_					Set	ycie	it	🛱 Edi		View pea		* © © Auto Time Device nge over Limit interlock	Temperature limit chai	īΠ
IACP All average 49 LG Electronics ACP 0 10 20 30 40 50 60 70 80 90 100(%) LG Electronics ACP		control () Priority control	od 🔵 Outdoor unit capacity	ontrol met	Ca												
LG Electronics ACP All average 49 LG Electronics ACP 0 10 20 30 40 50 60 70 80 90 100% LG Electronics ACP 49 49 49 49 49 49	รี		arget operation rate (%)		_	_				_	tatus	ontrol st	ty peak o	Priorit	ACP	y to Cancel all	Apply
			49	100(%)	90	 80	- 70	60	1 50	 40	- 30	20	10		All average		
			49	100(%)	- 90	1 80	70	- 60	- 50	- 40	1 30	 20	, 10		LG Electronics ACP		
	-																

No.	ltem	Description
		Control Method
1	Control Info	- Priority Control: Switch to control by priority.
(I)	Display	- Outdoor unit capacity control function: Switch to control by
		outdoor units.

No.	ltem	Description
		(Control method when priority control is selected)
		 Shows a status list of peak controls for each ACP.
		- Priority peak control status : Graphical display of current opera- tion rates and target operation rates for each ACP.
		 Current operation rate (%): Displays the current operation rate of each ACP (blue bar).
2	Peak Control List	 Target operation rate (%): Displays the target operation rate of each ACP (green bar).
		(Control method when outdoor unit control is selected)
		• Displays a capacity control list for outdoor units on each ACP.
		- Outdoor unit capacity peak control status: Displays the target operation rate (%).
		 Target Operation rate (%): Displays target operation rate for outdoor units on each ACP.

Demand Control

After observing changes in power consumption, this feature can prevent power consumption from exceeding a set limit. If you set the demand control and the program predicts that power consumption will exceed the limit, it will begin deactivating less important devices to save energy.

- 1. In the menu bar at the top, click **Auto control**.
- 2. From the Toolbox, click [Demand control].
 - The demand control screen opens.

AC Manager Plus Control/Monitoring	Schedule Auto control	Energy monitor	Report Cycle	Set					A Error O Cases
	Auto hange over Limit Interlock	View demand control status	Group						
mand control	Control method	10.01	Apply		Cancel lemand control	Outdoor u	unit capacity	control () Priority control	
	0 10 20	30 40	50 60	1	70 80	90 10	opera	urrent Target ating rate operation rate (%) (%) 0 49	
	_		Device name	Run	Room temp.	Set temp.	Mode		
	All		IDU_11	Run	23.0°C	18.0°C	Cool		
	ODU		IDU_12	Stop	23.0°C	18.0°C	Cool		
			IDU_13	Stop	23.0°C	18.0°C	Cool		
			IDU_14	Stop	23.0°C	18.0°C	Cool		
			IDU_15	Stop	23.0°C	18.0°C	Cool		
			IDU_16	Run	23.0°C	18.0°C	Cool		
			IDU_17	Run	23.0°C	18.0°C	Cool	•	
			IDU_18	Run	23.0°C	18.0°C	Cool		
			IDU_19	Run	23.0°C	18.0°C	Cool		
			IDU_1A	Run	23.0°C	18.0°C	Cool		
			IDU_1B	Run	23.0°C	18.0°C	Cool		
			IDU_1C	Run	23.0°C	18.0°C	Cool		
			IDU_1D	Run	23.0°C	18.0°C	Cool		
			IDU_1E	Run	23.0°C	18.0°C	Cool		
	N N		TOUL 1E	Dum	22.010	10.010	Cool		

No.	ltem	Description
		Control Method
		 Outdoor unit capacity control: Switches to a screen that offers controls based on the outdoor unit capacity limit
		 Priority control: Switches to a screen that offers controls based on ACP Group Priority
1	Control Info Display	• Operation rate bar : This graphical bar shows the current operation rate and the target operation rate of indoor units.
		Current operation rate (%)
		 Shows the percentage of currently operating units from all entire indoor ACP units (blue bar).
		Target operation rate (%)
		- Displays the target operation rate (green bar).
2	Operation Status	Shows device name, activity, current temperature, set temperature, and operation mode.

- **3.** Select an ACP group to see its control status.
 - You can check the demand control status in the control information display and the operation status list.

NOTES

- Depending on the installation site specifications, either of the peak control and demand control can be selected. Go to Set > System setting > Basic setting. In Select peak/demand controll select a desired control method.
- You can check the demand control status and edit groups in the demand control menu. But you can not set the target operation rate, switchover, Activity Controls, and Apply All/Disable All.

Temperature limit

The temperature limit feature allows you to maintain a certain temperature range.

- 1. In the menu bar at the top, click **Auto control**.
- 2. From the Toolbox, click [Temperature limit].
 - The temperature limit screen opens.

AC Mana											12 – E X
Control,	/Monitoring	Schedule Auto	control E	Energy m	onitor Report	Cycle	Set				A Error O Cases
Π	*	0 * C	0	Ca	🛱 Edit						
Peak Te	emperature A	uto Time (Device N	lew group	Delete						
control	fimit chan Auto c		iterlock	6	roup						
Temperat								A.C. 18	100 March 100		
Apply to all	Cancel all	Test (26)			Run App	ly Canc			ure 16.0°C Uppe te Average of all	r limit temperature 25.0°C	
	0.0	Device name	Address	Run	Room temp.	Set temp.	Running mode	ACP	Control group	Location	
	By action	IDU_11	11	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
🔳 Test		IDU_12	12	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
		IDU_13	13	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
		IDU_14	14	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
		IDU_15	15	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
		IDU_16	16	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
		IDU_17	17	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office		
		IDU_18	18	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	• • • • • • • • • • • • • • • • • • •	
		IDU_19	19	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
		IDU_1A	1A	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
		IDU_1B	1B	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
		IDU_1C	1C	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
		IDU_1D	1D	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office		
		IDU_1E	1E	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
		IDU_1F	1F	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
		IDU_20	20	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
		IDU_21	21	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	

No.	ltem	Description
		• Run
		- Apply: Activate the selected group.
		- Cancel: Deactivate the selected group.
		Set temp.
(1)	Control Info	 Low limit temperature: The lowest temperature that is allowed aindoors.
	Display	 Upper limit temperature: The highest temperature that is allowed indoors.
		 Temperature referenc: Displays the method of measuring the indoor temperature.
		 Average of all devices: The average temperature of readings from all indoor devices.
2	Control List	Displays a list of each registered devices and its current status.

- 3. Select the group to apply temperature limits to in the group list.
 - The control settings status of the selected group opens.
- 4. To activate the selected group, click [Apply] or the [>] next to the group name.
 - To deactivate the selected group, click **[Cancel]** or **[**] next to the group name.
- 5. To batch start all groups, click [Apply to all]. To batch stop all groups, click [Cancel All].

Adding Groups

Follow these steps to add a new group.

- 1. In the menu bar at the top, click Auto control
- 2. From the Toolbox, click [Temperature limit], then click [New group].
 - The add group screen opens.

AC Manager Plus Control/Monitoring Exit Delete	Schedule Au	ito control Er	ergy monito	or Repo	nt Cycle Set		50	
Exit Group								
Temperature limit	Apply setting	1					Apply Can	cel
By name By action	LGE1	emperature 16	c Upp	er limit ter	nperature 25 °C 🌲			(1) (2)
	Registered d				<u></u>		Edit device	
	Туре	Device name	Address	ACP	Control group	Location		
		Indoor Unit_5	05		Unregistered control group			
		Indoor Unit_6	06		Unregistered control group			
	Indoor Unit	Indoor Unit_7	07	ACP:10	Unregistered control group			
								3

No.	ltem	Description
1	Group Name	Enter or modify the group name in this textbox.
(2)	Set temp.	• Low limit temperature: Use [▲]/[▼] to set the possible lowest indoor temperature.
		 Upper limit temperature: Use [▲]/[▼] to set the possible highest indoor temperature.
(3)	Device List	Displays information on registered devices.
3	Device List	• [Edit device] Button: Add or delete a device.

- **3.** Enter a name for the group in the group name textbox.
- **4.** Click **[▲]/[▼]** to set the low and high temperature limits.
- 5. To add a device, click [Edit device].
 - The edit device window opens.

- 6. Check the box of unregistered devices you wish to add and click [4].
 - You can only apply temperature limits to indoor units.
 - To add multiple devices at one time, check multiple boxes before clicking [4].
 - The selected devices are added to the device list.

tegistered dev	rice (25)	Reset		Unregistered device (1)	
Device name	ACP	Contro 🔺		LG Electronics ACP	
IDU_12	LG Electronics ACP	Pricipa		T ODU	
IDU_13	LG Electronics ACP	Pricipa		IDU_11	
IDU_14	LG Electronics ACP	Pricipa			
IDU_15	LG Electronics ACP	Pricipa			
IDU_16	LG Electronics ACP	Pricipa			
IDU_17	LG Electronics ACP	Pricipa			
IDU_18	LG Electronics ACP	Pricipa	•		
IDU_19	LG Electronics ACP	Pricipa			
IDU_1A	LG Electronics ACP	Pricipa			
IDU_1B	LG Electronics ACP	Pricipa			
IDU_1C	LG Electronics ACP	Pricipa 🔻			
4		*			

- 7. After registering a device, click [Save].
- 8. To save these settings, click [Apply].

Editing Groups

Follow these steps to change group settings.

- 1. In the menu bar at the top, click **Auto control**.
- 2. From the Toolbox, click [Temperature limit].
 - The temperature limit screen opens.
- 3. Select the group to modify in the group list, then click [Edit] in the Toolbox.
 - The edit group screen opens.

C Manager Plus Control/Monitoring S	Schedule Au	to control En	ergy monito	or Repo	ort Cycle Set	_	_	CC = C ×
t Delete								
t Group								
name O By action	LGE1							
	Lower limit te	emperature 16*	C 🗘 Upp	er limit ter	mperature 25 °C 🔶 🔶			
	Registered d	evice					Edit device	
	Туре	Device name	Address	ACP	Control group	Location		
		Indoor Unit_5	05		Unregistered control group			
	3	Indoor Unit_6	06		Unregistered control group			
	Indoor Unit	Indoor Unit_7	07	ACP:10	Unregistered control group			
							•	

No.	ltem	Description
1	Group Name	Enter or modify the group name in this textbox.
2	Set temp.	 Low limit temperature: Use [▲]/[▼] to set the possible lowest indoor temperature. Upper limit temperature: Use [▲]/[▼] to set the possible highest indoor temperature.
3	Device List	 Displays information on registered devices. [Edit device] Button: Add or delete a device.

- 4. Edit the selected controls to your desired preferences.
- 5. To save these settings, click [Apply].

Deleting Groups

Follow these steps to delete a group from the group list.

- 1. In the menu bar at the top, click **Auto control**.
- 2. From the Toolbox, click [Temperature limit].
 - The temperature limit screen opens.
- 3. Select the group to delete from the list and click [Delete] in the Toolbox.
- 4. When you are prompted to confirm the deletion, click [OK].
 - The selected group is deleted and removed from the list.

Auto change over

If the temperature exceeds the high limit, the cooling system activates. If it falls below the low limit, the heating system activates.

- 1. In the menu bar at the top, click **Auto control**.
- 2. From the Toolbox, click [Auto change over].
 - The auto switchover screen opens.

AC Manager Plus										02 — E X
Control/Monitoring	Schedule Auto	control I	Energy mo	onitor Report	: Cycle	Set		_		A Error O Cases
Peak Temperature	uto Time E ge over Limit in	Device N Iterlock	Lew group G	Edit Delete						
Auto Change Over Apply to all Cancel all	example (26)			Run	Apply			ature 18.0℃ Ter erence Average o	nperature difference 1.0°C	
	Device name	Address	Run	Room temp.	Set temp.	Running mode	ACP	Control group	Location	
By name By action	IDU_11	11	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
example	IDU_12	12	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
	IDU_13	13	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
	IDU_14	14	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
	IDU_15	15	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
	IDU_16	16	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
	IDU_17	17	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office		
	IDU_18	18	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	• •	
	IDU_19	19	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
	IDU_1A	1A	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
	IDU_18	1B	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
	IDU_1C	1C	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
	IDU_1D	1D	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office		
	IDU_1E	1E	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
	IDU_1F	1F	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	
	IDU_20	20	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's office	123 10[adf]	

No.	ltem	Description
1	Control Info Display	 Run Apply: Activate the selected group. Cancel: Deactivate the selected group. Set temp. Standard temperature: Shows the currently set indoor temperature. Temperature difference: Shows the current temperature difference from the set temperature. Temperature reference: Displays the method of measuring the indoor temperature. All of all devices: The average temperature of readings from all indoor devices.
2	Control List	Displays a list of each registered devices and its current status.

- **3.** Select the group to apply auto switchover to in the group list.
 - The control settings status of the selected group opens.

- **4.** To activate the selected group, click **[Apply]** or the **[>]** next to the group name.
 - To deactivate the selected group, click [Cancel] or [I] next to the group name.
- 5. To batch start all groups, click [Apply to all]. To batch stop all groups, click [Cancel all].

Adding Groups

Follow these steps to add a new group.

- 1. In the menu bar at the top, click **Auto control**.
- 2. From the Toolbox, click [Auto change over], then click [New group].
 - The add group screen opens.

AC Mana	ager Plus I/Monitoring	Schedule Au	to control E	nergy monito	or Repo	nt Cycle Se	ət	_	CC = E X
$\langle -$	D								
Exit	Delete								
Exit	Group								
Auto Cha	inge Over	Apply setting?	2						Apply Cancel
By name	e 🔘 By actio	n							
xample		Enter group	o name						
		Standard tem	nperature 18 ℃	Temne	rature diff	erence 1 °C			
			perature -	• rempe	ruture uni				
		Registered d	levice					Edit device	
		Туре	Device name	Address	ACP	Control group	Location		
		Indoor Unit	IDU_26	26	ACP:00	Pricipal's office	123 10[adf]	A CONTRACTOR OF A CONTRACTOR	
		Indoor Unit	IDU_27	27	ACP:00	Pricipal's office	123 10[adf]		
		Indoor Unit	IDU_28	28	ACP:00	Pricipal's office	123 10[adf]		
		Indoor Unit	IDU_29	29	ACP:00	Pricipal's office	123 10[adf]		
		Indoor Unit	IDU0	10	ACP:00	Pricipal's office	123 10[adf]	•	

No.	ltem	Description				
1	Group Name	Enter or modify the group name in this textbox.				
	Set temp.	 Standard temperature: Use [▲]/[▼] to set an allowable indoor temperature. 				
2	Set temp.	 Temperature difference: Use [▲]/[▼] to set the temperature change range. 				
	Device List	Displays information on registered devices.				
3		• [Edit device] Button: Add or delete a device.				

- 3. Enter a name for the group in the group name textbox.
- **4.** Click **[**▲**]**/**[**▼**]** to set the difference from the reference temperature.
- 5. To add a device, click [Edit device].
 - The edit device window opens.

- 6. Check the box of unregistered devices you wish to add and click [4].
 - You can only apply auto switchover to indoor units.
 - To add multiple devices at one time, check multiple boxes before clicking [4].
 - The selected devices are added to the device list.

dit device			_	
Registered dev	rice (3)	Reset	Unregistered device (2)	
Device name	ACP	Control gre	LG Electronics ACP	
IDU_27	LG Electronics ACP	Pricipal's c	T ODU	
IDU_28	LG Electronics ACP	Pricipal's c	IDU0	
IDU_29	LG Electronics ACP	Pricipal's c	IDU_26	
			•	
•		•		
		Save	Cancel	

- 7. After registering a device, click [Save].
- 8. To save these settings, click [Apply].

Editing Groups

Follow these steps to change group settings.

- 1. In the menu bar at the top, click **Auto control**.
- 2. From the Toolbox, click [Auto change over].
 - The auto switchover screen opens.
- 3. Select the group to modify in the group list, then click [Edit] in the Toolbox.
 - The edit group screen opens.

AC Manager Plus Control/Monitoring	Schedule Au	to control E	nergy monito	or Repo	rt Cycle Se	t		- 🖬 🗙
			5,					
xit Delete								
Exit Group								
to Change Over								
By name O By action	example						•	
ample	Standard tem	meratura 18 °C	Temne	ratura diff.	erence 1 ° 🛒			
ample	Standard tem	perature 20 -	• rempe	rature uni				
	Registered d	evice					Edit device	
	Туре	Device name	Address	ACP	Control group	Location		
	Indoor Unit	IDU_11	11	ACP:00	Pricipal's office	123 10[adf]		
	Indoor Unit	IDU_12	12	ACP:00	Pricipal's office	123 10[adf]	The second s	
	Indoor Unit	IDU_13	13	ACP:00	Pricipal's office	123 10[adf]		
	Indoor Unit	IDU_14	14	ACP:00	Pricipal's office	123 10[adf]		
	Indoor Unit	IDU_15	15	ACP:00	Pricipal's office	123 10[adf]	•	
	Indoor Unit	IDU_16	16	ACP:00	Pricipal's office	123 10[adf]		
	Indoor Unit	IDU_17	17	ACP:00	Pricipal's office			
	Indoor Unit	IDU_18	18	ACP:00	Pricipal's office			
	Indoor Unit	IDU_19	19	ACP:00	Pricipal's office	123 10[adf]		
	Indoor Unit	IDU_1A	1A	ACP:00	Pricipal's office	123 10[adf]		
	Indoor Unit	IDU_18	18	ACP:00	Pricipal's office	123 10[adf]		
	Indoor Unit	IDU_1C	1C	ACP:00	Pricipal's office	123 10[adf]		
	Indoor Unit	IDU_1D	1D	ACP:00	Pricipal's office			
	Indoor Unit	IDU_1E	1E	ACP:00	Pricipal's office	123 10[adf]		

No.	ltem	Description					
1	Group Name	Enter or modify the group name in this textbox.					
2	Set temp.	 Standard temperature: Use [▲]/[▼] to set an allowable indoor temperature. Temperature difference: Use [▲]/[▼] to set the 					
		temperature change range.					
(3)	Device List	 Displays information on registered devices. 					
9	Device List	• [Edit device] Button: Add or delete a device.					

- 4. Edit the selected controls to your desired preferences.
- 5. To save these settings, click [Apply].

Deleting Groups

Follow these steps to delete a group from the group list.

- 1. In the menu bar at the top, click **Auto control**.
- 2. From the Toolbox, click [Auto change over].
 - The auto switchover screen opens.
- 3. Select the group to delete from the list and click [Delete] in the Toolbox.
- 4. When you are prompted to confirm the deletion, click [OK].
 - The selected group is deleted and removed from the list.

Time Limit

You can set limits on when devices will function.

- 1. In the menu bar at the top, click Auto control.
- 2. In the Toolbox, click [Time Limit].
 - The time limit screen opens.

	nager Plus ol/Monitoring	Schedule /	uto control	Energy moni	itor Report Cycl	e Set			_		_	11 – 🗇 X
π	Ð	*}* ©	(0)	Da [🕞 Edit							
Peak	Temperature	Auto Time	Device M	lew group	Delete							
control		nge over Uimit	interlock									
Time Lir				0.01	ab							
		123456 (26)		Run Apply	/ (ancel		tion time 4 Time			
Apply to all	O Cancel all						App	ly to day of w	eek Mon, Tue, We	d, Thu, Fri	i, Sat, Sun	
	me 🔘 By action	Туре	Device name	Address	Remaining time	Run	Room temp.	Set temp.	Running mode	ACP	Control g	
1234		Indoor Un	t IDU_11	11	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
1254	50	Indoor Un	t IDU_12	12	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_13	13	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_14	14	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_15	15	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_16	16	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_17	17	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_18	18	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_19	19	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_1A	1A	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_1B	18	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_1C	1C	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_1D	1D	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_1E	1E	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_1F	1F	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_20	20	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_21	21	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_22	22	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_23	23	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	
		Indoor Un	t IDU_24	24	04:00	Stop	23.0°C	18.0°C	Cool	ACP:00	Pricipal's	

No.	ltem	Description
		• Run
		- Apply: Activate the selected group.
1	1 Control Info Display	- Cancel: Deactivate the selected group.
		Continuous operation time: Displays continuous operation time.
		 Apply to day of week: Displays the days when the time limit is enforced.
2	Control List	Displays a list of each registered devices and its current status.

- **3.** Select a group from the list.
 - The control settings status of the selected group opens.
- 4. To activate the selected group, click [Apply] or the [▶] next to the group name.
 - To deactivate the selected group, click [Cancel] or [] next to the group name.
- 5. To batch start all groups, click [Apply to all]. To batch stop all groups, click [Cancel all].

Adding Groups

Follow these steps to add a new group.

- 1. In the menu bar at the top, click **Auto control**.
- 2. From the Toolbox, click [Time Limit], then click [New group].
 - The add group screen opens.

	Schedule Au	to control Er	nergy monito	r Repo	rt Cycle Set		CC _ □ X ▲Error 96 Cases	
Exit Delete								
Exit Group Time Limit	Apply setting?						Apply Cancel	
By name By action	Apply setting:						Apply Cancer	
Syname Synamic	LGE1							-1
	Continuous	operation time	4	•				_2
	Apply to day	of week 🔲 M	ton 🕑 Tue	🖌 Wed [Thu 🗌 Fri 🗌 Sat 🗌 Su		Ţ	
	Registered d	evice					Edit device	
		Device name	Address	ACP	Control group	Location		
	Indoor Unit		03		Unregistered control group			
	Indoor Unit		04		Unregistered control group			
	Ventilator	vent_0e	OE	ACP:10	LGE1			
								-(3)

No.	ltem	Description
1	Group Name	Enter a name for the group.
		• Continuous operation time: Click [▼] to select the allowed uptime (1 - 4 hours).
2	Set Time	 Apply to day of week: Click the boxes to select which days have the time limit enforced. (You can select overlapping days.)
3	Device List	 Displays information on registered devices. [Edit device] Button: Add or delete a device.

- 3. Enter a name for the group in the group name textbox.
- **4.** Click **[▼]** to select the allowed uptime.
- 5. Click on the boxes to select which days the limit is enforced.

- 6. To add a device, click [Edit device].
 - The edit device window opens.
- 7. Check the box of unregistered devices you wish to add and click [4].
 - You can use time limit control on all devices except AHU, AWHP, Hydro kit, DI, DO and ON/ OFF.
 - To add multiple devices at one time, check multiple boxes before clicking [4].
 - The selected devices are added to the device list.

tegistered dev	rice (3)	Reset	Unregistered device (2)	
Device name	ACP	Control gr	LG Electronics ACP	-
IDU_27	LG Electronics ACP	Pricipal's c	V ODU	
IDU_28	LG Electronics ACP	Pricipal's c	IDU0	
IDU_29	LG Electronics ACP	Pricipal's c	IDU_26	
1		,		

- 8. After registering a device, click [Save].
- 9. To save these settings, click [Apply].

Editing Groups

Follow these steps to change group settings.

- 1. In the menu bar at the top, click **Auto control**.
- 2. In the Toolbox, click [Time Limit].
 - The time limit screen opens.
- 3. Select the group to modify in the group list, then click [Edit] in the Toolbox.
 - The edit group screen opens.

AC Man	ager Plus								50 — 🗆 X
Contro	ol/Monitoring	Schedule Au	uto control E	inergy monito	r Repo	rt Cycle Set			A Error 96 Cases
\bigtriangledown									
Exit	Delete								
Exit	Group								
Time Lin	nit								G
By name	e 🔘 By action	LGE1							(1
LGE1		Continuous	operation time	4 .	•			1	2
		Apply to day	y of week 🔲 N	non 🕑 Tue	Ved (🗌 Thu 🔲 Fri 🔲 Sat 🔲 Sur	1	J	
		Registered o	1					Edit device	
			Device name	Address	4.00	0.11			
		Type Indoor Unit		Address 03	ACP ACP:10	Control group Unregistered control group	Location		
		Indoor Unit		04		Unregistered control group			
		Ventilator	vent_0e	OE	ACP:10				
								÷	3

No.	ltem	Description
1	Group Name	Enter or modify the group name in this textbox.
2	Set Time	 Continuous operation time: Click [▼] to select the allowed uptime (1 - 4 hours). Apply to day of week: Click the boxes to select which days have the time limit enforced.
		(You can select overlapping days.)
0	3 Device List	Displays information on registered devices.
		• [Edit device] Button: Add or delete a device.

- **4.** Edit the selected controls to your desired preferences.
- 5. To save these settings, click [Apply].

Deleting Groups

Follow these steps to delete a group from the group list.

- 1. In the menu bar at the top, click **Auto control**.
- 2. In the Toolbox, click [Time Limit].
 - The time limit screen opens.
- 3. Select the group to delete from the list and click [Delete] in the Toolbox.
- 4. When you are prompted to confirm the deletion, click [OK].
 - The selected group is deleted and removed from the list.

Device interlock

You can integrate the system with external devices, such as firealarms, to halt operation of all indoor units and ventilators.

- 1. In the menu bar at the top, click Auto control.
- 2. From the Toolbox, click [Device interlock].
 - The device integration screen opens.

AC Manager Plus								11 – 8 ×
Control/Monitoring	Schedule Auto	control E	nergy monit	or Repi	ort Cycle	Set		A Error 0 Cases
1 🕑 *	3 ©	0	1 67	🕽 Edit				
eak Temperature A ntrol limit chan	uto Time I ge over Limit in	Device No	ew group	Delete				
Auto o		menock	Grou)				
evice Interlock	-						Run Apply Cance	_
pply to II Cancel all	First						Run Apply Cance	
II Cancer all	Input						Status : Same condition for all devices (A	ND)
By name 🔘 By action	Type D	Device name	Address	ACP	Control group	Location		
First	Indoor Unit I	DU_11	11	ACP:00	Pricipal's office	123 10[adf]		
	Indoor Unit I		12		Pricipal's office			
	Indoor Unit I		13		Pricipal's office			
	Indoor Unit I	DU_14	14	ACP:00	Pricipal's office	123 10[adf]		
								•
	Output							
		ice name	Address	ACP C	ontrol group	Location		
	Indoor L IDU				ricipal's office	123 10[adt		
	Indoor L IDU				ricipal's office	123 10[adl		
	Indoor L IDU				ricipal's office	123 10[adl		
	Indoor L IDU				ricipal's office	123 10[adf		

No.	ltem	Description
	Control Info	• Run
1	1 Display	- Apply: Activate the selected group.
		- Cancel: Deactivate the selected group.
	2) Control List	 Shows input and output conditions for each action.
2	Control List	Displays the list of registered devices in the group.

- **3.** Select a group from the group list to integrate with an external device.
 - The control settings status of the selected group opens.
- **4.** To activate the selected group, click **[Apply]** or the **[▶]** next to the group name.
 - To deactivate the selected group, click **[Cancel]** or **[**] next to the group name.
- 5. To batch start all groups, click [Apply to all]. To batch stop all groups, click [Cancel all].

Adding Groups

Follow these steps to add a new group.

- 1. In the menu bar at the top, click Auto control
- 2. From the Toolbox, click [Device interlock], then click [New group].
 - The add group screen opens.

Control/Monitoring	Schedule Aut	to control E	nergy monit	or Rej	oort Cycle Set		<mark>▲ Error 96C3065</mark>
xit Group	Apply setting?						Apply Cancel
v name i By action	LGE1 Input Outp Status AND : 0	ut Same condition Matches device	for all device:	5 1 or more	desice		Edit device
		Device name	Address		Control group	Location	
	Indoor Unit	idu_04	04	ACP:10	Unregistered control group		
	Ventilator	vent_0e	OE	ACP:10	LGE1		
	Ventilator	Vent1	01	ACP:10	LGE1		
	OFF Error Error	Run Stop					

No.	ltem	Description
1	Group Name	Enter a name for the group.
2	Input/Output Tabs	Inputs and outputs are separated into individual tabs.
3	Integration Conditions	 Allows you to select a logical operator for the listed conditions. AND : Same condition for all devices OR: Matches device condition for 1 or more device.
(4)	[Edit device] Button	Add or delete a device.
5	Device List	Displays a list of input or output devices.
6	Control Toolbox	 Shows settings for input/output activity on each device. Changes according to devices attached and other variables. (for more details, refer to Toolbox Controls per Device on page 20)

- **3.** Enter a name for the group in the group name textbox.
- 4. Select the Input Settings tab and define the conditions for device integration.

- 5. To add a device, click [Edit device].
 - The edit device window opens.
- 6. Check the box of unregistered devices you wish to add and click [4].
 - You can use Device Integration on all devices except AHU.
 - To add multiple devices at one time, check multiple boxes before clicking [4].
 - The selected devices are added to the device list.

dit device				-
Registered dev	rice (3)	Reset	Unregistered device (2)	
Device name	ACP	Control gr	LG Electronics ACP	
IDU_27	LG Electronics ACP	Pricipal's c	T ODU	
IDU_28	LG Electronics ACP	Pricipal's c	IDU0	
IDU_29	LG Electronics ACP	Pricipal's c	IDU_26	
		•		

- 7. After registering a device, click [Save].
- 8. Select the control status that you want in the Toolbox.
- 9. Select the Output Settings tab and repeat steps 5 through 8.
- 10. To save these settings, click [Apply].

Editing Groups

Follow these steps to change group settings.

- 1. In the menu bar at the top, click **Auto control**.
- 2. From the Toolbox, click [Device interlock].
 - The device integration screen opens.
- 3. Select the group to modify in the group list, then click [Edit] in the Toolbox.
 - The edit group screen opens.

Delete Group							
	LGE1						
ne 🔘 By action	Input Outp	ut					
	Status AND : 0	Same condition	for all device	c			
	OR: 🔘	Matches device	condition for	1 or more			Edit device
	Type Indoor Unit	Device name	Address 04		Control group Unregistered control group	Location	
	Ventilator	vent 0e	04 0E	ACP:10			
	Ventilator	Vent1	01	ACP:10			
			-				
							÷
)				

No.	ltem	Description
1	Group Name	Enter or modify the group name in this textbox.
2	Input/Output Tabs	Inputs and outputs are separated into individual tabs.
3	Integration Conditions	 Allows you to select a logical operator for the listed conditions. AND : Same condition for all devices OR: Matches device condition for 1 or more device.
(4)	[Edit device] Button	Add or delete a device.
5	Device List	Displays a list of input or output devices.
6	Control Toolbox	 Shows settings for input/output activity on each device. Changes according to devices attached and other variables. (for more details, refer to Toolbox Controls per Device on page 20)

4. Edit the selected controls to your desired preferences.

5. To save these settings, click [Apply].

Deleting Groups

Follow these steps to delete a group from the group list.

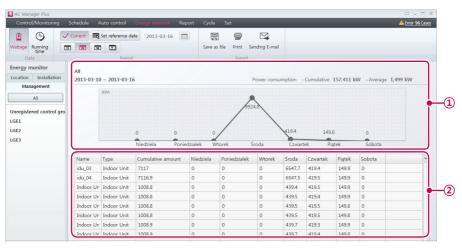
- 1. In the menu bar at the top, click **Auto control**.
- 2. From the Toolbox, click [Device interlock].
 - The device integration screen opens.
- 3. Select the group to delete from the list and click [Delete] in the Toolbox.
- 4. When you are prompted to confirm the deletion, click [OK].
 - The selected group is deleted and removed from the list.

Energy Monitor

Wattage

You can check the power consumption of each group, the power consumption of an indoor unit, and total power consumption.

- 1. In the menu bar at the top, click **Energy monitor**.
- 2. From the Toolbox, click [Wattage].



No.	ltem	Description
	Dever Consumption History Graph	Displays the selected time period.
1		 Displays cumulative and average consumption.
		• Displays history vs current for cumulative and average.
2	Energy Monitor Details	Provides detailed power consumption for the registered indoor units.

3. Set the time period in the Toolbox.

ltem	Description
	• [Current] Button: Sets the current date as the reference date.
Reference Dates	 [Set reference date] Button: Allows you to select desired reference dates from a calendar.
	• 💼 : Expands the graph across a 24 hour period.
Time Scale	• 📷 : Expands the graph across a 7 day period.
Time Scale	• 📷 : Expands the graph across a 30 day period.
	• 🔄 Expands the graph across a 12 month period.

- 4. To view these settings, click [Apply].
 - The power consumption for the selected period appears.
 - To save the inquiry as a file, click [Save as file]. When the file save screen appears, enter a file name and click [Save].
 - To export the queried content to an email, press [Export to Email] button.
 - If the administrator accesses, [Export to Email] button is activated.
 - In Settings > User Settings > Mail Server Settings, complete the Connection Test to send the email.
 - To print the inquiry, click [Print].

NOTES

- **[Wattage]** is only active when Power Consumption History Graph is enabled in the system settings.
- The power consumption displayed in the program may differ from the power consumption stated in the bill.
- The Energy Monitor keeps recent one-year data only.

Running time

You can check the operating time of each group and the total operating time for indoor units.

- 1. In the menu bar at the top, click **Energy monitor**.
- 2. In the Toolbox, click [Running time].

Control/Monitoring	Schedule A	uto control	Energy monitor Report	Cycle S	et					<mark>≜</mark> Er	rror 96 Cases
3 🕒 🗸	Current	Set reference da	ate 2013-03-16			1					
Wattage Running				Save as file	Print Sending	E-mail					
Data		Period			Export						
inergy monitor											
ocation Installation	All	2012 02 14	-					1.0 10	co1 .	1	
Management	2013-03-10	~ 2013-03-10	b			Running	time - Ci	imulative 10	,691 min	- Average 101 m	un
-		(Min.)									
All					112.7						- i
Unregistered control gro					/ \						T I
					/						
LGE1				. /	/						
LGE1 LGE2			0 0	./	/	/		0	C		
.GE1 .GE2			0 0 Niedziela Poniedział	1	k Środa	1	zwartek	0 Piątek) Sobota	
.GE1 .GE2	Name	Туре		1	k Środa Poniedziałek	1					
LGE1 LGE2	10.00.00000	Type Indoor Unit	Niedziela Poniedział	ek Wtorel	1		Zwartek	Piątek	5	sobota	
LGE1 LGE2	idu_03		Niedziela Poniedział Cumulative running time	ek Wtorel Niedziela	Poniedziałek	Wtorek	Sroda	Piątek Czwartek	Piątek	Sobota	
LGE1 LGE2	idu_03 idu_04	Indoor Unit	Niedziela Poniedział Cumulative running time 698	ek Wtorel Niedziela 0	Poniedziałek 0	Wtorek 0	Środa 698	Piątek Czwartek 0	Piątek 0	Sobota 0	
LGE1 LGE2	idu_03 idu_04 Indoor Un	Indoor Unit Indoor Unit	Niedziela Poniedziak Cumulative running time 698 715	ek Wtorek Niedziela 0 0	Poniedziałek 0 0	Wtorek 0 0	Środa 698 715	Piątek Czwartek 0 0	Piątek 0 0	Sobota Sobota 0 0	
LGE1 LGE2	idu_03 idu_04 Indoor Un Indoor Un	Indoor Unit Indoor Unit Indoor Unit	Niedziela Poniedział Cumulative running time 698 715 715	ek Wtorel Niedziela 0 0 0	Poniedziałek 0 0 0	Wtorek 0 0 0	Środa 698 715 715	Piątek Czwartek 0 0 0	Piątek O O O	Sobota Sobota 0 0 0 0	
LGE1 LGE2	idu_03 idu_04 Indoor Un Indoor Un Indoor Un	Indoor Unit Indoor Unit Indoor Unit Indoor Unit	Niedziela Poniedział Cumulative running time 698 715 715 715 715	k Wtorek Niedziela 0 0 0 0 0	Poniedziałek 0 0 0 0 0	Wtorek 0 0 0 0	Środa 698 715 715 715 715	Piątek Czwartek 0 0 0 0 0	Piątek O O O O	Sobota 0 0 0 0 0 0 0	
ισει ισει ισει ισει ισει ισει ισει ισει	idu_03 idu_04 Indoor Un Indoor Un Indoor Un Indoor Un	Indoor Unit Indoor Unit Indoor Unit Indoor Unit Indoor Unit	Niedziela Poniedziak Cumulative running time 698 715 715 715 715 697	k Wtorel Niedziela 0 0 0 0 0 0	Poniedziałek 0 0 0 0 0 0	Wtorek 0 0 0 0 0	Środa 698 715 715 715 697	Piątek Czwartek 0 0 0 0 0 0	Piątek O O O O O O	Sobota 0 0 0 0 0 0 0 0 0 0	

No.	ltem	Description
1	Displays the selected period and operating times.	 Displays the selected time period. Displays total operating time and average operating time. Displays history vs current for cumulative and average.
2	Energy Monitor Details	Provides detailed operating time for the registered indoor units.

3. Set the time period in the Toolbox.

ltem	Description
Reference Dates	 [Current] Button: Sets the current date as the reference date. [Set reference date] Button: Allows you to select desired reference dates from a calendar.
Time Scale	 m: Expands the graph across a 24 hour period. m: Expands the graph across a 7 day period. m: Expands the graph across a 30 day period. m: Expands the graph across a 12 month period.

- 4. To view these settings, click [Apply].
 - The operating time for the selected period appears.
 - To save the inquiry as a file, click [Save as file]. When the file save screen appears, enter a file name and click [Save].
 - To export the queried content to an email, press [Export to Email] button.
 - If the administrator accesses, [Export to Email] button is activated.
 In Settings > User Settings > Mail Server Settings, complete the Connection Test to send the email.
 - To print the inquiry, click [Print].

Report

Explains how to inquire the device operation log or installation status.

Working history

You can generate reports on the status and activity of devices.

- 1. In the menu bar at the top, click **Report**.
- 2. From the Toolbox, click [Working history].
 - The operation log screen opens.

Control/Monitoring	Schedule	Auto control	Energy mo	nitor Report	Cycle Set		A Error 96 Cases
orking history Report		Current E	Period setting	~			AHU All items Error Auto Change Over AWHP Temperature limit Schedule Time Limit , Chiller Group setting Device setting Web Reference Code
Norking history Nu	mber of e	vents : 20000	Date range	2013-03-16 ~	2013-03-16		
Date time	Category	Device name	Address	Device type	Main agent	Reference Code	Detail
2013-03-16 AM 12:00	Error	ODU_00	00	Outdoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	ODU_01	01	Outdoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	ODU_02	02	Outdoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	ODU_03	03	Outdoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	idu_03	03	Indoor Unit	2	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	idu_04	04	Indoor Unit		Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	Indoor Unit_5	05	Indoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	Indoor Unit_6	06	Indoor Unit	2	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	Indoor Unit_7	07	Indoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	Indoor Unit_8	08	Indoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	Indoor Unit_9	09	Indoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	Indoor Unit_A	0A	Indoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	Indoor Unit_B	OB	Indoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	Indoor Unit_C	0C	Indoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	Indoor Unit_D	0D	Indoor Unit	÷	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	Indoor Unit_E	OE	Indoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	실내기_0	00	Indoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	실내기_10	10	Indoor Unit	-	Error	[CH_246] Data receipt time out error from central controller (When rec
2013-03-16 AM 12:00	Error	실내기 11	11	Indoor Unit		Error	[CH 246] Data receipt time out error from central controller (When rec

No.	ltem	Description
1	Event Count/Date Range	Event Count: Displays the number of events in the report.Date Range: Displays the selected date range.
2	Operation Log	Displays a history of operations for each device.

3. Set the time period in the Toolbox.

ltem	Description
Reference Dates	 [Current] Button: Sets the current date as the reference date. [Period setting] Button: Allows you to select desired dates from a
Dates	calendar to be reference dates (maximum of 1 year).

ltem	Description
Time Scale	 Expands the graph across a 24 hour period. Expands the graph across a 7 day period. Expands the graph across a 30 day period. Expands the graph across a 3 month period.

- 4. Select the desired device and event filters in the Toolbar.
 - You can check multiple filters.
- 5. To view these settings, click [Apply].
 - The operation log for the selected period appears.
 - To save the inquiry as a file, click **[Save as file]**. When the file save screen appears, enter a file name and click **[Save]**.
 - To print the inquiry, click [Print].

NOTES

The Reports keeps recent one-year data only.

Installation Status

You can generate a report on device settings of the installed devices.

- 1. In the menu bar at the top, click **Report**.
- 2. From the Toolbox, click [Installation status].
 - The installation status screen opens.

AC Manager Plus								11 - E X	
Control/Monitorin	ig Sch	edule Auto d	control	Energy monitor Rep	oort	Cycle Se	et	A Error 63 Cases	
Vorking history Insta Report	Partial and the state of the st		Ventilat On/Off Devi	or AWHP Gevice Chiller Save	as file Exp	Print			(
Address	Туре	Device name	ACP	Control group		Location grou	oup		$ \$
ACP:00	ACP	00	00	-		-			
ACP:00_AHU_00	AHU	00	00	Unregistered control g	roup				
ACP:00_AHU_23	AHU	1111	00	Unregistered control g	roup	-			
ACP:00_AHU_11	AHU	23	00	Unregistered control g	roup	2			
ACP:00_AHU_01	AHU	ahu_01	00	Unregistered control g	roup	-			
ACP:00_AWHP_00	AWHP	AWHP_0	00	AWHP		-			
ACP:00_AWHP_01	AWHP	AWHP_1	00	AWHP		2			
ACP:00_AWHP_10	AWHP	AWHP_10	00	AWHP		-		T	Γ
ACP:00_AWHP_11	AWHP	AWHP_11	00	AWHP		-			
ACP:00_AWHP_12	AWHP	AWHP_12	00	AWHP		-			
ACP:00_AWHP_13	AWHP	AWHP_13	00	AWHP		-			
ACP:00_AWHP_14	AWHP	AWHP_14	00	AWHP		-			
ACP:00_AWHP_15	AWHP	AWHP_15	00	AWHP		-			
ACP:00_AWHP_16	AWHP	AWHP_16	00	AWHP		-			
ACP:00_AWHP_17	AWHP	AWHP_17	00	AWHP		-			

No.	Item	Description
1	Device Count	Displays the number of devices in the report.
2	Installation Status	Displays a installation status list for all devices.

- 3. Select the desired device filters in the Toolbar.
 - You can check multiple filters.
- 4. To view these settings, click [Apply].
 - Installation Status appears.
 - To save the inquiry as a file, click **[Save as file]**. When the file save screen appears, enter a file name and click **[Save]**.
 - To print the inquiry, click [Print].

Cycle

This tab displays the cycle information for the IDU/ODU and the Chiller.

Outdoor Unit

- 1. In the menu bar at the top, click Cycle
- 2. From the Toolbox, click [Outdoor Unit].
 - The outdoor unit cycle screen opens.

										_	
ODU Cycle i	nformation										
Master									3	2	
Addre		09		Heat recove				49.5℃		-	
	e type	SYNC_SI	UPER2	Supercooler				10.3℃			
Mode	i	STOP		Overcooler	outlet temp.			27.8°C		-	
MICO	M version	0.0		Outdoor un	it EEV			1344			
Error	code	0		Supercooler	EEV			288			
Invert	ter compressor freque	ency 80		Hot gas val	ve			Closed		1	
Invert	ter FAN1 frequency	23		Inverter liqu	id pipe			Closed			
Invert	ter FAN2 frequency	23		Inverter dis	charge temp.			83.0°C			
Air te	mp.	29.4°C		Constant sp	eed compres	sor discharg	ge temp.	31.0°C			
Targe	t high pressure	2729		Constant sp	eed compres	sor liquid v	alve	Closed			
Targe	t low pressure	830		Constant sp	eed compres	sor		OFF			
Comp	pressor suction temp.	10.6°C		Refrigerant	type			R410A			
Liquid	d pipe temp.	42.5°C									
										2	
Indoor unit o	cycle information									1	
Device name	Running State	Running mode	Set temp.	Fan speed	Lock all	Swing	Room temp.	LEV	Inlet	-	
IDU0	Run	Fan	25.0°C	Mid	Set	Cancel	23.0°C	0	220		
IDU_11	Run	Fan	25.0°C	High	Set	Cancel	23.0°C	0	220		
IDU_12	Run	Fan	25.0°C	High	Set	Cancel	23.0°C	0	220		
IDU_13	Run	Fan	25.0°C	High	Set	Cancel	23.0°C	0	220	.	 _
	Run	Fan	25.0°C	High	Set	Cancel	23.0°C	0	220		
IDU_14		Fan	25.0°C	High	Set	Cancel	23.0°C	0	220		
IDU_15	Run	-									
IDU_15 IDU_16	Run	Fan	25.0°C	Low	Set	Cancel	23.0°C	0	220		
IDU_15		-	25.0°C 25.0°C 25.0°C	Low Low High	Set Set Set	Cancel Cancel Cancel	23.0°C 23.0°C 23.0°C	0	220 220 220		

No.	ltem	Description						
1	Outdoor Unit Cycle Info	Displays master/slave information on outdoor units.						
2	Indoor Unit Cycle Info	Displays information on all indoor units that are connected to outdoor units.						

3. Select an outdoor unit in the ACP list to display cycle information.

• The cycle information for the selected outdoor unit is displayed to the right.



You can only query when the installed outdoor unit provides cycle information.

Chiller

- 1. In the menu bar at the top, click Cycle
- 2. From the Toolbox, click [Chiller].
 - The Chiller Cycle screen opens.

AC Manager Plus						S2 - E	×
	edule Auto control	Energy monitor	Report Cy	le Set		A Error 63 Cas	<u> </u>
Cycle	Update cycle						
Chiller cycle							
▼ 00	AChiller-test Cycle info	rmation					
▼ Chiller	Common	Cycle1	Cyc	e2	Cycle3		
MChiller-test	Address						
MChiller-testtest	Model						
MChiller-test3	Run						
MChiller-test4te MChiller-test8	Running mode						
MChiller09	Setting temperature	of cooling					
MChiller0A-1	Setting Temperature	of Heating					
MChiller-0b	Chilled Water Leaving	g Temp					• -2
tttt	Chilled Water Enterin	ig Temp					
	Outside Air temperat	ure					
	Demand Limit						
	Load water flux swite	h					
	Load water pump out	tput					
	Load water pump inte	egration					
	Working Current						
	Left Start Time						
	Total Working Hour						

No.	ltem	Description
1	Update cycle	Set Chiller Cycle's information update cycle (30 Seconds / 1 Minute / 2 Minute / 5 Minute / 10 Minute / 1 Hour / 2 Hours / Auto update not done)
2	Chiller Cycle Information	Displays the Common/Cycle information for the Chiller.

- **3.** Select an Chiller in the ACP list to display cycle information.
 - The cycle information for the selected Chiller is displayed to the right.

Set

This section explains how to set the device and system after installing AC Manager Plus.

Device Setting

You can add an ACP or other device and change the settings of registered devices.

NOTES

Changing the settings of the device/ACP will delete the settings of the schedule and automatic control.

Add Device

Follow these steps to add a new device to the device list.

- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [Device setting].
 - The device edit screen opens by default.

AC Manager	Plus												00 – 0 X
Control/M	onitoring S	chedule Auto	control	Energy monito	r Rej	port	Cycle <mark>Set</mark>						A Error 63 Cases
*	7	¢	Q	R	02	2		ACP	3	Ð			
Device setting	System setting	User setting	Edit device	Edit group	Add	Delete	Import ACP setting	Add ACP	Transmit	Logout			
	Set		Б	dit			Device		Transmit	Logout			
Edit device	(
Installation		Add device											
v 00 [00]		Type		Ventilator	~	AWHP	0.410	~	Chiller	On/Off device	0.07	0.00	
▼ ODU_00[00]	0		ventilator		AWHP	AHU		Chiller	On/Off device	OI 🔘	DO 🔘	
Test0	012[01]	Indoor U	Init										
▶ ODU_01[01]												
▶ ODU_02[10000	Set											
▶ ODU_03[Jet											
▶ Ventilato	e	ACP na	me										
► AHU ► AWHP		Addr	ess										
> Chiller			IP										
▶ On/Off d	evice												
▶ DI		ACP mo	der lander	лu	Ŧ								
► DO		P	ort 9200										
	L L)

ltem	Description
Туре	The device type appears differently depending on the hierarchical group of that device.
Settings	Different setting items are displayed depending on the selected device (for the details on the individual device settings, refer to Individual Device Settings on page 85).

- 3. Select a hierarchical group for the added device.
 - If you select ACP in the device list, you can specify outdoor unit, ventilator, AHU, AWHP, ON/OFF, DI, or DO.
 - If you select outdoor unit in the device list, you can only add indoor units.
- 4. From the Toolbox, click [Add].
- 5. Select the type of device to add.
 - The device types shown differ depending on the hierarchical group of the device.
- 6. Enter the device settings.
 - You may see different settings available depending on the device. For details, refer to **Individual Device Settings** on page 85.
- 7. To save these settings, click [Apply].
- 8. To complete Add Device, click [Transmit].

Edit Device

You can change the settings of registered devices.

- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [Device setting].
 - The device edit screen opens by default.
- 3. Select the device to edit from the list.
 - The edit device screen opens to show the device information.
- 4. Change the device settings in the edit device screen.
 - You may see different settings available depending on the device. For details, refer to **Individual Device Settings** on page 85.
- 5. To save these settings, click [Apply].
- 6. To complete Edit Device, click [Transmit].

Delete Device

Follow these steps to delete a device from the list.

- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [Device setting].
 - The device edit screen opens by default.
- 3. Select the device to delete from the list.
- 4. From the Toolbox, click [Delete].
- 5. When you are prompted to confirm the deletion, click [OK].
 - The selected device is deleted and removed from the list.
- 6. To complete Delete Device, click [Transmit].

Import ACP Settings

You can import ACP settings from previously registered device.

- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [Device setting].
 - The device edit screen opens by default.
- 3. Select an ACP from the installation list, then click [Import ACP setting].
 - The import settings window opens.
- 4. To overwrite the current settings with the imported settings, click [OK].
 - The imported ACP settings are immediately applied.

Adding ACP

Follow these steps to add an additional ACP.

- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [Device setting], then click [Add ACP].
- **3.** Enter the settings of the new ACP in the edit device screen.

Add device							
Туре							
Outdoor Unit	Ventilato	r 💿 AWHP	MHU	Chiller	On/Off device	O DI	OD (
Indoor Unit							
iet							
ACP name							
ACP name							
ACP name							
ACP name Address IP	Standard	·					

ltem	Description
ACP name	Give a name to the ACP for easy recognition.
Address	The software address of the ACP.
IP	The IP address of the ACP. (Use a static IP when using AC Manager Plus.)
ACP model	Click [▼] to select a ACP type (Standard / Premier / ACSmart Primium)
Port	The port number assigned to the ACP.

4. To save these settings, click [Apply].

Individual Device Settings

Individual Device Settings are as follows.

Outdoor Units

Add device							
Туре							
Outdoor Unit	Ventilator	MWHP	AHU	Chiller	On/Off device	O DI	OD O
Indoor Unit							
iet							
	ACP name	00					
	ACP name Address						
		00					
	Address	00 0DU_00					
	Address	00 0DU_00 0DU_00					
Outdoor unit cap	Address Name Mode	 00 ODU_00 ODU ODU 5000 	Not applied				

ltem	Description
ACP name	The hierarchical ACP for the selected device.
Address	The software address of the device.
	The name of the device shown in the system.
Name	 When adding a batch of devices, use the "Device type_Device address" format for names.
Model	The product model of the device.
Capacity	The product capacity of the device.
Whether PDI is installed	Indicate if PDI is installed.
Outdoor unit capacity control function	Indicate if the unit supports capacity control.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

Indoor Units

Add device						
Туре						
Outdoor Unit	Ventilator	AWHP	MHU	Chiller	On/Off device	O DO
Indoor Unit						
Set						
bet						
	ACP name 00					
Outdoor	unit name Ol	DU_00				
	Address	01				
	Name	Test0012				
	Model	default				
	Туре	Cassette type	•			
	Capacity	3000				
Function to cancel	filter alarm) Support 🔘 Not a	pplied			
	Add in batch					

ltem	Description					
ACP name	The hierarchical ACP for the selected device.					
Outdoor unit name	The name of the connected outdoor unit.					
Address	The software address of the device.					
	The name of the device shown in the system.					
Name	When adding a batch of devices,					
	use the "Device type_Device address" format for names.					
Model	The product model of the device.					
Туре	Select the type of indoor unit.					
Capacity	The product capacity of the device.					
Function to cancel filter alarm	Indicate if the filter alarm on the device can be disabled.					
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)					

Ventilator

Туре							
Outdoor Unit Indoor Unit	Oventilator	MWHP	MHU	Chiller	On/Off device	O DI	O DO
et							
ACP name	00						
Address	01						
	Vent1						
Name							
Name Model	Vent						
	Vent Ventilator	•					

ltem	Description
ACP name	The hierarchical ACP for the selected device.
Address	The software address of the device.
Name	 The name of the device shown in the system. When adding a batch of devices, use the "Device type_Device address" format for names.
Model	The product model of the device.
Туре	Select a ventilator type.
Capacity	The product capacity of the device.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

AWHP

Add device							
Туре							
Outdoor Unit	Ventilator	O AWHP	AHU	Chiller	On/Off device	O DI	O DO
Indoor Unit							
Set							
5-5-2							
ACP name	00						
Address	00						
Name	AWHP_0						
Model	AWHP						
Туре	AWHP						
Capacity	0						
Temperature display	 Outlet water 	Indoor					
Add in batch							

ltem	Description
ACP name	The hierarchical ACP for the selected device.
Address	The software address of the device.
	The name of the device shown in the system.
Name	When adding a batch of devices,
	use the "Device type_Device address" format for names.
Model	The product model of the device.
Туре	Select the AWHP type.
Capacity	The product capacity of the device.
Temperature display	Select which temperature measurement to display.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

AHU

Add device								
Туре								
Outdoor Unit	Ventilator	MWHP	OHA 💿	Chiller	On/Off device	I DI	DO DO	
Indoor Unit								
Set								
ACP name	00							
Address	00							
Name	00							
Model	AHU							
Basic mode	O Cool 🔘 For	Cooling/Heating						
AHU type	🖲 General 🔘 🤆	Out-air unit (Gene	ral) 🔵 EmptyS	ystemSpecialDays	O Compact (Single Fan)			
Additional mode	None O Dr	y O Power O	Dry, power save	2				
Additional function	💿 None 🔘 Au	to Ventilation) Humidifier	Auto ventilation	humidify			
Add in batch								

ltem	Description
ACP name	The hierarchical ACP for the selected device.
Address	The software address of the device.
	The name of the device shown in the system.
Name	 When adding a batch of devices, use the "Device type_Device address" format for names.
Model	The product model of the device.
Basic mode	Select between cooling or cooling/heating mode.
AHU type	Select the AHU type.
Additional modes	Select any additional operating modes the device supports.
Additional function	Select any additional features the device supports.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

Chiller

Add device							
Туре							
Outdoor Unit	Ventilator	MWHP	M AHU	O Chiller	On/Off device	O DI	DO DO
Indoor Unit							
Set							
ACP name	00						
Address	01						
Name	MChiller-test						
Туре	Chiller (Mini)	•					
Number of cycles	2						
Running mode	O Exclusively for	cooling 💿 For C	ooling/Heating				
Cooling type	Water-Cooled	Air-Cooled					
Add in batch							

ltem	Description				
ACP name	The hierarchical ACP for the selected device.				
Address	The software address of the device.				
	• The name of the device shown in the system.				
Name	 When adding a batch of devices, use the "Device type_Device address" format for names. 				
Туре	Select a chiller type.				
Number of Cycles	Set the number of chiller cycle.				
Running mode	Select either cooling or heating.				
Cooling Type	Select either water-cooling or air-cooling.				
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)				

On/Off device

Add device								
Туре								
Outdoor Unit	Ventilator	MWHP	MHU	Chiller	On/Off device	O DI	O DO	
Indoor Unit								
Set								
ACP name	00							
Address	02							
Name	onoff1							
Add in batch								

ltem	Description
ACP name	The hierarchical ACP for the selected device.
Address	The software address of the device.
Name	 The name of the device shown in the system. When adding a batch of devices, use the "Device type_Device address" format for names.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

DI/DO

Add device							
Туре							
Outdoor Unit	Ventilator	MWHP	AHU	Chiller	On/Off device	o DI	O DO
Indoor Unit							
Set							
ACP name	00						
Name	di_01						
Port	1 *						
Add in batch							

ltem	Description
ACP name	The hierarchical ACP for the selected device.
Name	 The name of the device shown in the system. When adding a batch of devices, use the "Device type_Device address" format for names.
Port	The port number assigned to the device.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

Adding Groups

Follow these steps to add a new group.

- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [Device setting], then click [Edit group].
 - The edit group screen opens.

AC Manager Plus Control/Monitoring	Schedule Auto	control Energ	y monitor Report C	Cycle Set			
* 🖓	¢.	Q I	s 0, 0,	Ð			
Device setting System setti		Edit device Edit		Logout			
Set	· · · · · · · · · · · · · · · · · · ·	Edit	Device	Logout			
dit group		Eult	Device	Logout			
anagement Location	Art studio						
-	Registered dev	tico (19)					
rt studio						Unregistered device (3)	
ymnasium	Device type	Device name	ACP			LG Electronics ACP	
lanagement Office	AHU	AHU_9	LG Electronics ACP				
ricipal's office	AHU	AHU_A	LG Electronics ACP				
cience lab	AHU	AHU_B	LG Electronics ACP				
	AHU	AHU_C	LG Electronics ACP				
	AHU	AHU_D	LG Electronics ACP				
	AHU	AHU_E	LG Electronics ACP				
	AWHP	AWHP_6	LG Electronics ACP				
	AWHP	AWHP_7	LG Electronics ACP				
	AWHP	AWHP_8	LG Electronics ACP				
	AWHP	AWHP_9	LG Electronics ACP				
	AWHP	AWHP_A	LG Electronics ACP				
	DI	DI_1	LG Electronics ACP				
	DI	DI_2	LG Electronics ACP				
	DI	DI_3	LG Electronics ACP		•		
	DO	DO_1	LG Electronics ACP				
	DO	DO_2	LG Electronics ACP				
	DO	DO_3	LG Electronics ACP				
	DO	DO_4	LG Electronics ACP				

- 3. In the group list, click the appropriate tab (Management, Location).
- 4. Click [Add] button.
 - The add group screen opens.
- 5. If you selected the **Management** tab in step 3, you can add the group name.
- 6. If you selected the **Location** tab in step 3, you can type the building name, number of floors, and description.
- 7. To register a new device in the device list, check the box of the device you wish to add in the unregistered device list and click [4] button.
- 8. To save these settings, click [Apply].

Editing Groups

Follow these steps to change group settings.

- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [Device setting], then click [Edit group].
 - The edit group screen opens.

Control/Monitoring	Schedule Auto		y monitor Report C	Cycle Set		A
evice setting System set		Edit device Edit		Logout		
Set	ang over setting	Edit	Device	Logout		
dit group		Edit	Device	Logour		
anagement Location	Art studio					
-	Registered de	uico (19)				
rt studio					Unregistered device (3)	
ymnasium	Device type	Device name	ACP		LG Electronics ACP	
anagement Office	AHU	AHU_9	LG Electronics ACP			
icipal's office	AHU	AHU_A	LG Electronics ACP			
ience lab	AHU	AHU_B AHU_C	LG Electronics ACP			
	AHU	AHU_C AHU_D	LG Electronics ACP			
	AHU	AHU_E	LG Electronics ACP			
	AWHP	AWHP_6	LG Electronics ACP			
	AWHP	AWHP_7	LG Electronics ACP			
	AWHP	AWHP_8	LG Electronics ACP			
	AWHP	AWHP_9	LG Electronics ACP			
	AWHP	AWHP_A	LG Electronics ACP			
	DI	DL1	LG Electronics ACP			
	DI	DI_2	LG Electronics ACP			
	DI	DL3	LG Electronics ACP			
	DO	DO_1	LG Electronics ACP			
	DO	DO_2	LG Electronics ACP			
	DO	DO_3	LG Electronics ACP			
	DO	DO_4	LG Electronics ACP			

- 3. In the group list, click the appropriate tab (Management, Location).
- 4. Select a group.
- 5. If you selected the Management tab in step 3, you can modify the group name.
- If you selected the Location tab in step 3, you can modify the building name, number of floors, and description.
- 7. To remove a device from the registered device list, select the device in the list and [>].
- 8. To register a new device in the device list, check the box of the device you wish to add in the unregistered device list and click [4] button.
- 9. To save these settings, click [Apply].

Deleting Groups

Follow these steps to delete a group from the group list.

- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [Device setting], then click [Edit group].
 - The edit group screen opens.
- 3. Select the group to delete from the list and click [Delete] in the Toolbox.
- 4. When you are prompted to confirm the deletion, click [OK].
 - The selected group is deleted and removed.

System Setting

This section explains how to set the system environment of AC Manager Plus.

Basic setting

Follow these steps to set or change the default system environment.

- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [System setting].
- 3. In the system settings list, press [Basic Setting] button.
 - The default setting screen opens.
- 4. Set the control environment for AC Manager Plus as desired.

AC Manager Plusd				22 — 🗆 X
Control/Monitoring	Schedule Auto control Energy m	ionitor Report	Cycle Set	A Error 0 Cases
* 🖓	¢ −			
Device setting System sett	ng User setting Logout			
Set	Logout			
System setting	Title			
Basic setting Error Notifying Setting	AC Manager Plusd			
Error Notitying Setting	Ac manager r tasa			
	Language	English	v	
	Temperature	Celsius 1°C	•	
	Filter replacement alarm	Show	() Hide	
	View By Group	🔘 Set	Cancel	
	Select peak/demand control	O Peak control	Demand control	
	Display power consumption	Set	Cancel	
	View group summary	Show	O Hide	
	Reference date for energy statistics	1	•	
	Set the reference date to calculate	monthly statistics.	For example, select 15th to calculate from 15th to the 14th of next month on a monthly basis.	
	Set schedule exception date	Set		
	Data backup	Backup App	ly to backup file	
				J

ltem	Description	
Title	Name the setting configuration for easy reference.	
Language	Click [▼] to select a language (한국어/ English/ Español/ Português/ Italiano/ Turkish/ Deutsch/ Polski/ Русский/ Français).	
Temperature	Click [▼] to select a control temperature unit type you want (Celsius 1°C / Celsius 0.5°C / Fahrenheit 1°F).	
Filter replacement alarm	Choose to show or hide the filter replace alarm in the system.	
View By Group	 Set / Cancel the devices of the selected groups in Control/Monitoring If you select to Cancel, the program may slow depending on the performance of the PC. 	

Item	Description		
Select peak / demand control	 Peak Control: You can use peak control feature in the auto control menu. 		
	 Demand Control: You can use the demand control feature in the auto control menu. 		
Display power consumption	Set or Cancel power consumption in the AC Manager Plus screen.		
View group summary	You can show or hide the status of devices in groups in Control/ Monitoring.		
Reference date for energy statistics	Click [▼] to select a date		
	Select a reference date for monthly power consumption computations.		
	Calculations are made across one calendar month starting from the selected date.		
Set schedule exception date	Manage schedule exception dates.		
Data backup	• Backup: Immediately backup data as a .csv file.		
	• Apply to backup file: Set a file to regularly backup data. The file is overwritten with each backup.		

5. To save these settings, click [Apply].

- If ACP is connected to link with AC Manager Plus, do not use ACP to use Peak Control directly. ACP
 operates based on the peak operation rate settings of AC Manager Plus.
- If the target operation rate is controlled by AC Manager Plus, it should be that AC Manager Plus
 Peak Control and ACP = Demand Control. If the target operation rate is controlled by Demand
 Controller, it should be that AC Manager Plus = Demand Control and ACP = Demand Control. If the target operation rate is controlled by ACP, it should be that AC Manager Plus = Demand Control and ACP = Peak Control.

Setting Exceptions

Follow these steps to add or delete exception dates.

- 1. Navigate to System setting > Basic setting [Setting] to schedule exception dates.
 - The exception setting screen opens.
- 2. Delete or add exception dates as desired.

Set exception	date	
2012-08-17	example1	×
2012-08-20	example2	×
2012-08-22	example3	×
Enter exception	late	
	Save Cancel	

No.	ltem	Description
1	Delete Selected	Delete the selected exception date.
2	Add Exception	 Add an additional exception date. Image Select exception dates to add by clicking → Enter a name for the exception in the input box.

3. To save these settings, click [Save].

Error Notifying Setting

You can set or change the error notification.

- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [System setting].
- 3. In the system settings list, click [Error Notifying Setting] button.
 - Error Notification Settings screen is displayed.
- 4. Set the control environment for AC Manager Plus as desired.

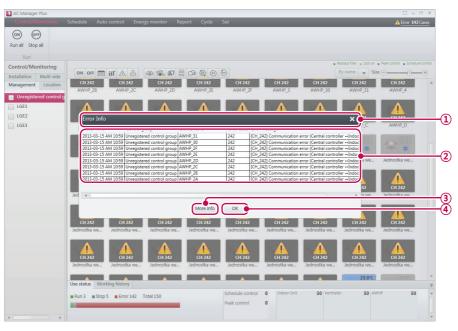
AC Manager Plus				X 🗆 = 12
Control/Monitoring S	chedule Auto control	Energy monitor	Report Cycle Set	A Error 96 Cases
* 🖓	¢ -			
Device setting System setting				
Set	Logou			
System setting				
Basic setting Error Notifying Setting	Error Popup	🔘 Set	Oancel	
	Error Notifying Mail Se	etting 💿 Set	Cancel	
	Email Title		test	
	To (Email Address)		tst@lae.com	
	Time interval sending	error email (Minutes)	10 Minutes	

ltem	Description	
Error Popup	Select to turn on (or off) a popup that shows a list of errored devices.	
Error Notifying Mail Setting	Selects to send (or send not) the address and error code of an errored device by email.	
Email Title	Select the email address.	
To (Email Address)	Type the email address of the receiver.	
Time interval sending error email (Minutes)	Select a send cycle for error occurence (10 Minute / 20 Minute / 30 Minute / 40 Minute / 50 Minute / 60 Minute)	

5. To save these settings, click [Apply].

Error Message Popup

An error occurs during using the program, the error popup message is displayed.



No.	ltem	Description
1	Title display	Displays the error popup message
	Information diaplay	Provides information on the error
2	Information display	- Displays up to 8 errors in the order of occurrence
3	[More Info]	Report > Working history > Error page to provide detailed information
(4)	[OK]	Closes the popup message

NOTES

If you don't want to display error popup messages, go to **Setting** > **System Setting** and, in **Error Notifying Setting**, turn off Error Popup.

Class B device

NOTES

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to pro-vide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not in-stalled and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.



Disposal of your old appliance

- 1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
- All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
- 3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
- 4. For more detailed information about disposal of your old appliance, please contact your city olce, waste disposal service or the shop where you purchased the product.

User Settings

This section explains how to set AC Manager Plus users

Administrator

Only the administrator account can change user environments.

- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [User setting].
- 3. Click the Administrator user in the user list.
 - The setting screen for the administrator opens. Modify the user settings and system environment as desired.

AC Manager Plus						- 🗆
	Schedule Auto control	Energy monitor	Report	Cycle Set	Â	rror 0 Case
* 7	¢ 🗧					
Device setting System setti						
Set	Logout	t				
Jser setting Administrator	Set password			Information		
User	Current password			Name	admin	
	New password			E-mail		
	Check new password			Contact Number		
	Set mail server Conr	nection test				
	SMTP server					
	Port	0				
	ID					
	Password					
	Menu setting					
	Basic menu					
	🕑 Report	Gycle	🕑 De	vice setting		
	Option Menu					
	Schedule	Auto control	Ene	ergy monitor		

ltem	Description					
	Change the user's password if desired.					
Set Password	- Current password: Enter user's current password.					
Set Fassword	- New password: Enter a new password.					
	- Check new password: Enter the new password one more time.					
	Modify the user's personal information.					
	Name: Enter the user's name.					
Information	• E-mail: Enter the user's e-mail address.					
	• Contact Number : Enter a phone number or a mobile number to contact this user.					

ltem	Description					
	Administrator E-mail Server Settings					
	- SMTP server: Enter the address of the SMTP server.					
	- Port : Enter the port number of the server.					
Set mail server	- ID: Enter the user's ID for the e-mail server.					
	- Password: Enter the user's password for the e-mail server.					
	- Connection test : Performs a test to connect to the user's e-mail account (you must be connected to internet).					
	Check the boxes to customize the administrator's menu (you may select multiple items).					
Menu setting	- Basic menu: Report, Cycle, Device Settings					
	- Option Menu: Schedule, Auto Control, Energy Monitor					

4. To save these settings, click [Apply].

User

Only an account with administrator privileges can modify a general user's environment.

- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [User setting].
- 3. Click the User in the user list.
 - The setting screen for the general user opens. You can add, modify, and delete users from this screen.

Control/Mo	nitoring Scl	_		nergy moni	tor Report Cyc	le Set		
*	₽.	CP .	Ð					
rice setting	System setting	User setting	Logout					
	Set		Logout					
er setting								
Administrato	or	List of user						
Jser		Number	User name	ID	E-mail	Contact Number		
		1	AC Manager	ac123	ac123@email.com	010-1234-5678		
		2	LGE	bc123	bc123@email.com	010-1234-1234		
		3	testman	testman	cc123@email.com	010-1234-4321		
								Add Edit Delete

ltem	Description				
	A brief summary of all general users.				
	 Number, User Name, ID, E-mail, Contact 				
List of user	• [Add] Button: Add a new user.				
	• [Edit] Button: Edit the selected user.				
	• [Delete] Button: Delete the selected user.				

Item	Description				
	Adding or editing a general user.				
	Name: Enter the user's name.				
	 ID: User IDs are case sensitive. Use both upper and lower case letters. 				
	 Password: Use numbers and upper and lower case letters for maximum security. 				
Add & Edit	• E-mail: Enter an e-mail address for the user.				
	• Contact : Enter a phone number or a mobile number to contact this user.				
	Menu Settings for General Users				
	Basic menu: Report				
	Option Menu: Schedule, Auto Control, Energy Monitor				

4. To save these settings, click [Apply].

Information Management

A general user can view and modify his or her user information after logging in.

- ENGLISH
- 1. In the menu bar at the top, click Set.
- 2. From the Toolbox, click [User setting].
- 3. Click Information management in the System Settings menu.
 - The info management screen opens. You can view and change user information in this screen.

AC Manager Plus							- 🗆 X
Control/Monitoring	Schedule Peak con	trol Energy monitor	Report Set			A Error	r 157 Cases
🖓 😚) (P)						
System setting User setting	Transmit Logo						
Set	Transmit Logo	ut					
User setting	Apply setting?					Apply	Cancel
Information manageme	Manage personal i	nformation					
	Name	AC Manager Plus user1					
		ACManager					
	Password	•••					
	Check password	•••					
	E-mail	AC123@email.com					
	Contact Number	01012345678					

Item Description			
Name	The user's name.		
ID	The user's ID.		
Password To change the user's password, enter a new one here.			
Check password Enter the same password again to confirm.			
E-mail	Enter an e-mail address for the user.		
Contact Number	Enter a phone number or a mobile number to contact this user.		

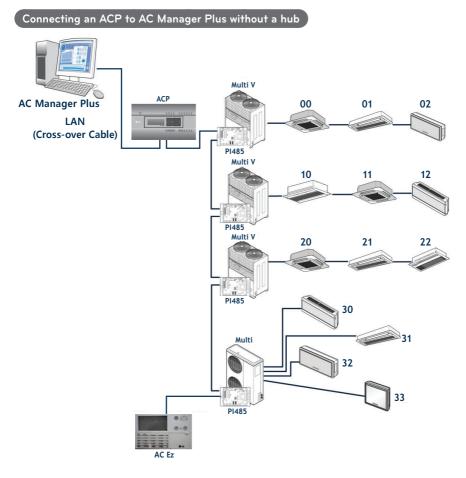
4. To save these settings, click [Apply].

Hint

Provide additional information required to use AC Manager Plus.

AC Manager Plus Complete System Diagram

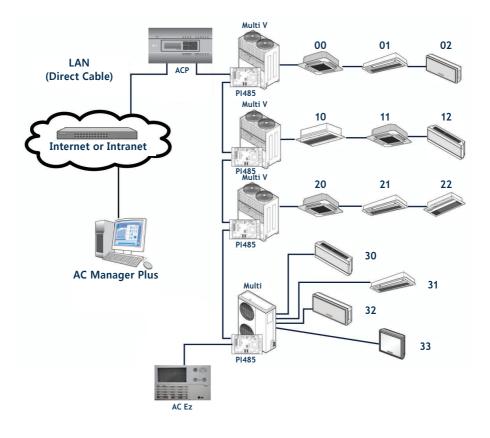
Connecting AC Manager Plusto an ACP



NOTES

The allocated number to the indoor device is a sample address for central control, which is set to the indoor device.

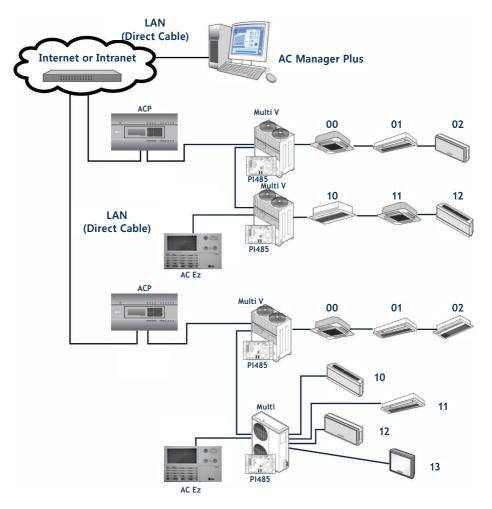




NOTES

AC Ez can be connected separately if required.

ENGLISH



Connecting AC Manager Plusto multiple ACPs

Error Codes

The followings are the error codes that occur while using AC Manager Plus.

Indoor Device, Ventilator or Direct Expansion Ventilator, AWHP / Hydro kit, AHU error

Error Code	Indoor Device	Ventilator or Direct Expansion Ventilator	AWHP / Hydro kit	AHU
0	No error	No error	No error	
1	Indoor sensor air) open/short	Air intake sensor malfunction	Indoor air thermometer malfunction	
2	Indoor sensor (intake pipe) open/ short	Refrigerant intake thermometer malfunction	Refrigerant intake thermometer malfunction	Communication PCB indoor sensor (intake pipe) error
3	Remote control malfunction	Remote control malfunction	Remote control malfunction	The remote control is not functioning for 3 minutes or longer.
4	Drain pump malfunction	Drain pump malfunction		Communication PCB is not functioning for 3 minutes or or longer.
5	Communication error (indoor∎outdoor)	Communication error (indoor∎outdoor)	Communication error (indoor ↔ outdoor)	Communication error (communication PCB ↔ outdoor)
6	Indoor sensor (outtake pipe) open/ short	Refrigerant outtake thermometer malfunction	Refrigerant outtake thermometer malfunction	Communication PCB indoor sensor (outtake pipe) error
7	Atypical operation	Atypical operation	Atypical operation	
8			Hot water thermometer malfunction	Operate smoke control through smoke detection.
9	EEPROM ERROR (indoor unit)	EEPROM ERROR (indoor unit)	EEPROM ERROR (indoor unit)	
10	Indoor fan LOCK (operation error)	Indoor fan Lock (operation error)		
11			HHU/boiler communication error (HHU)	

Error Code	Indoor Device	Ventilator or Direct Expansion Ventilator	AWHP / Hydro kit	AHU
12	Indoor mid-pipe sensor error		Boiler error (HHU)	
13	Heater terminal block sensor (A-PAC)		Solar heat temperature sensor error	Temperature (ventilator, air supply, external air, Mix) is outside acceptable range.
14			Indoor unit flow switch operation error	Humidity (ventilator, air supply, external air) is outside acceptable range
15	O-ROTOR (BLDC FAN driver) communication error		Water pipe overheating	CO ₂ value is within acceptable range
16			Simultaneous AWHP temperature sensor error	Pressure (pressure change, static pressure) is outside acceptable range
17		Direct expansion ventilator air out sensor	Inlet water temperature sensor error	Speed (ventilator and air supply flow) is outside acceptable range.
18		Direct expansion ventilator air return sensor	Outlet water temperature sensor error	
19		Direct Expansion Ventilator Main PCB ← Sub PCB communication error	Elec/Heater outlet water temperature sensor error	
20		Direct Expansion Ventilator Main PCB → Sub PCB communication error	Elec/heater error	

Outdoor Unit Errors

Error Code	Description
21	DC peak
22	Max ct (CT 2): Maximum current error
23	DC link voltage (low)
24	High voltage/heat plate SW
25	Under-voltage/over-voltage
26	DC comp position error
27	PSC fault error
28	DC link voltage (high)
29	Comp over-current
30	Surge in static speed #2 compressor discharge temperature
31	CT err (low current)
32	Inverter discharge temperature error (high)
33	Surge in static speed #1 compressor discharge temperature
34	Surge in high voltage
35	Drop in low voltage
36	Low compression ratio error
37	Compression ratio limit exceeded
39	Communication error (inverter ↔ PFC)
40	Inverter CT sensor open/short
41	Inverter discharge temperature sensor open/short
42	Low voltage sensor open/short
43	Heat exchanger temperature sensor (top)
44	Outdoor air temperature sensor open/short
45	Outdoor pipe (top) sensor open/short
46	Compressor suction temperature sensor open/short
47	Static speed #1 compressor discharge temperature sensor error
48	Heat exchanger temperature sensor (bottom) (SUPER3: Static speed #2 compressor discharge temperature sensor error)
49	Outdoor voltage sensor error (SUPER3: IPM temperature sensor error)
50	Missing phase of outdoor 3-phase power
51	Over-capacity error (indoor unit capacity limit exceeded)
52	Communication error (inverter board \rightarrow main board)
53	Communication error (indoor device → outdoor unit)
54	RST reverse phase detection

Error Code	Description
55	Communication error (central to main controller)
56	Communication error (main to central controller)
57	Communication error (main board to inverter board)
58	Incorrect connection of tax product (tax-exempt indoor unit to taxed outdoor unit)
59	Mixed installation of slave outdoor unit
60	PCB EEPROM error (MULTI V: inverter PCB EEPROM error)
61	Inverter discharge temperature error (high)
62	Heatsink error (high)
63	Outdoor pipe temperature error (low)
65	Heatsink Th error (open/short)
66	Bad connection/piping (incorrect connection of wire, pipe, LEV, etc.)
67	Outdoor fan lock error (with BLDC)
68	Static speed comp CT open (add MPS)
69	Static #1 CT sensor error
70	Static #2 CT sensor error
71	Input CT sensor error
72	Communication error (louver ↔ fan)
73	Input instant over-current (peak)
74	Inverter PCB phase unbalance
75	Fan CT sensor error
76	Fan DC link over-voltage error
77	Fan over-current error
78	Fan hall sensor error
79	Fan start failure error
80	Louver motor over-current
81	Louver limit SW error
82	A-cycle low pressure error
83	B-cycle low pressure error
84	A-cycle high pressure error
85	B-cycle high pressure error
86	Main PCB EEPROM error
87	Fan PCB EEPROM error
88	PFC PCB EEPROM error
89	Detachable type distributor communication error

MultiV 20Hp, 30Hp, 40Hp, error

Error Code	Description	
100	SLAVE1 static speed compressor 1 discharge temperature surge error	
101	SLAVE1 static speed compressor 2 discharge temperature surge error	
102	SLAVE2 static speed compressor 1 discharge temperature surge error	
103	SLAVE2 static speed compressor 2 discharge temperature surge error	
104	Communication error with outdoor unit (slave to master)	
105	Fan board communication error (fan to outdoor unit)	
106	Fan board (IPM fault)	
107	Fan board (low voltage error)	
108	Communication error (outdoor unit to fan)	
109	SLAVE1 (high voltage SW error)	
110	SLAVE1 (reverse phase error)	
111	SLAVE1 (communication error: master to slave)	
112	Master outdoor unit sensor (oil pipe temperature sensor error)	
113	Master outdoor unit sensor (fluid pipe temperature sensor error)	
114	Master outdoor unit sensor (overcooling inlet temperature sensor error)	
115	Master outdoor unit sensor (overcooling outlet temperature sensor error)	
116	SLAVE1 outdoor unit sensor (high voltage sensor error)	
117	SLAVE1 outdoor unit sensor (low voltage sensor error)	
118	SLAVE1 outdoor unit sensor (low voltage sensor error)	
119	SLAVE1 outdoor unit sensor (oil pipe temperature sensor error)	
120	SLAVE1 outdoor unit sensor (suction temperature sensor error)	
121	SLAVE1 outdoor unit sensor (static speed compressor 1 discharge temperature error)	
122	SLAVE1 outdoor unit sensor (static speed compressor 2 discharge temperature error)	
123	SLAVE1 outdoor unit sensor (heat exchanger temperature sensor A error)	
124	SLAVE1 outdoor unit sensor (heat exchanger temperature sensor B error)	
125	SLAVE1 outdoor unit (fluid pipe temperature sensor error)	
126	SLAVE1 outdoor unit (overcooling inlet temperature sensor error)	
127	SLAVE1 outdoor unit (overcooling outlet temperature sensor error)	
128	SLAVE2 outdoor unit sensor (high voltage sensor error)	
129	SLAVE2 outdoor unit sensor (low voltage sensor error)	
130	SLAVE2 outdoor unit sensor (air temperature sensor error)	
131	SLAVE2 outdoor unit sensor (oil pipe temperature sensor error)	
132	SLAVE2 outdoor unit sensor (suction temperature sensor error)	

Error Code	Description	
133	SLAVE2 outdoor unit sensor (static speed compressor 1 discharge temperature error)	
134	SLAVE2 outdoor unit sensor (static speed compressor 2 discharge temperature error)	
135	SLAVE2 outdoor unit sensor (heat exchanger temperature sensor A error)	
136	SLAVE2 outdoor unit sensor (heat exchanger temperature sensor B error)	
137	SLAVE2 outdoor unit (fluid pipe temperature sensor error)	
138	SLAVE2 outdoor unit (overcooling inlet temperature sensor error)	
139	SLAVE2 outdoor unit (overcooling outlet temperature sensor error)	
140	Fluid pipe sensor error of heat recovery unit	
141	Overcooling inlet sensor error of heat recovery unit	
142	Overcooling outlet sensor error of heat recovery unit	
143	Heat recovery unit communication error	
144	Heat recovery unit reserve 1	
145	Heat recovery unit reserve 2	
146	Heat recovery unit reserve 3	
147	Heat recovery unit reserve 4	
148	Heat recovery unit reserve 5	
176	SLAVE2 static speed 1 compressor over-current/under-current	
177	SLAVE2 static speed 2 compressor over-current/under-current	
178	SLAVE3 static speed 1 compressor over-current/under-current	
179	SLAVE3 static speed 2 compressor over-current/under-current	
180	Anti-Freeze (water-cooling)	
181	Water temperature sensor error (water-cooling)	
182	Sub Micom communication error	
183	Oil supply failure	
184	Inverter oil pipe temperature sensor error	
185	Static #1 oil pipe temperature sensor error	
186	Static #2 oil pipe temperature sensor error	
193	Fan board heat plate temperature surge	
194	Fan board heat plate temperature sensor error	

Error Code	Description
200	Fan board heat plate temperature sensor error
201	Fluid pipe sensor error (fluid pipe sensor of HR Unit1 open/short)
202	Overcooling inlet sensor error (overcooling inlet sensor of HR Unit1 open/short)
203	Overcooling outlet sensor error (overcooling outlet sensor of HR unit1 open/short)
204	Overcooling outlet sensor error (overcooling outlet sensor of HR unit1 open/short)
205	Fluid pipe sensor error (fluid pipe sensor of HR Unit2 open/short)
206	Overcooling inlet sensor error (overcooling inlet sensor of HR Unit2 open/short)
207	Overcooling outlet sensor error (overcooling outlet sensor of HR unit2 open/short)
208	Communication error (no outdoor unit signal for 3 min from HR unit2)
209	Fluid pipe sensor error (fluid pipe sensor of HR Unit3 open/short)
210	Overcooling inlet sensor error (overcooling inlet sensor of HR Unit3 open/short)
211	Overcooling outlet sensor error (overcooling outlet sensor of HR unit3 open/short)
212	Communication error (no outdoor unit signal for 3 min from HR unit3)
213	Fluid pipe sensor error (fluid pipe sensor of HR Unit4 open/short)
214	Overcooling inlet sensor error (overcooling inlet sensor of HR Unit4 open/short)
215	Overcooling outlet sensor error (overcooling outlet sensor of HR unit4 open/short)
216	Communication error (no outdoor unit signal for 3 min from HR unit4)
217	Fluid pipe sensor error (fluid pipe sensor of HR Unit5 open/short)
218	Overcooling inlet sensor error (overcooling inlet sensor of HR Unit5 open/short)
219	Overcooling outlet sensor error (overcooling outlet sensor of HR unit5 open/short)
220	Communication error (no outdoor unit signal for 3 min from HR unit5)
221	Fluid pipe sensor error (fluid pipe sensor of HR Unit6 open/short)
222	Overcooling inlet sensor error (overcooling inlet sensor of HR Unit6 open/short)
223	Overcooling outlet sensor error (overcooling outlet sensor of HR unit6 open/short)
224	Communication error (no outdoor unit signal for 3 min from HR unit6)
225	Fluid pipe sensor error (fluid pipe sensor of HR Unit7 open/short)
226	Overcooling inlet sensor error (overcooling inlet sensor of HR Unit7 open/short)
227	Overcooling outlet sensor error (overcooling outlet sensor of HR unit7 open/short)
228	Communication error (no outdoor unit signal for 3 min from HR unit7)
229	Fluid pipe sensor error (fluid pipe sensor of HR Unit8 open/short)
230	Overcooling inlet sensor error (overcooling inlet sensor of HR Unit 8 open/short)
231	Overcooling outlet sensor error (overcooling outlet sensor of HR unit8 open/short)
232	Communication error (no outdoor unit signal for 3 min from HR unit8)

Error Code	Description
233	Fluid pipe sensor error (fluid pipe sensor of HR Unit9 open/short)
234	Overcooling inlet sensor error (overcooling inlet sensor of HR Unit9 open/short)
235	Overcooling outlet sensor error (overcooling outlet sensor of HR unit9 open/short)
236	Communication error (no outdoor unit signal for 3 min from HR unit9)

Central Controller Errors

Error Code	Description	
240	Communication error (PC central controller ↔ I-GW)	
242	Communication error (central controller ↔ indoor unit)	
246	Data in time out error from central controller	
247	Communication error (ACM Client ↔ ACM Server)	
248	Communication error (ACP Client ↔ ACP Server)	
250	Checksum error	
251	Communication error (AC Smart to 128-room expansion kit)	

Chiller Errors

Error Code	Description
1	Common Air Sensor Error
2	Load Pipe In Sensor Error
3	HMI Communication Error
5	Outdoor Communication Error
6	Load Pipe Out Sensor Error
9	Remote Communication Error
11	Load Pump Interlock Error
13	Load Flow Switch Error
15	Remote Alarm Error
21	Inverter Compressor IPM Fault
22	Inverter Compressor Input Overcurrent (RMS)
23	Inverter Compressor DC Link Low Voltage
24	ODU High Pressure Switch Operation

Error Code	Description		
25	High/Low Input Voltage		
26	Inverter Compressor Start Failure Error		
27	PSC/PFC Fault Error		
28	Inverter DC Link High Voltage Error		
29	Inverter Compressor Overcurrent		
30	Constant-speed No.2 Compressor Discharge Temperature Increasing Excessively		
32	Inverter Compressor Discharge Temperature Increasing Excessively		
33	Constant-speed No.1 Compressor Discharge Temperature Increasing Excessively		
34	High Pressure Increasing Excessively		
35	Low Pressure Decreasing Excessively		
36	Low Compression Ratio Error		
39	Communication Error between the PFC Circuit and Inverter board		
40	Inverter Compressor CT Sensor Failure		
41	Inverter Compressor Discharge Temperature Sensor Failure		
42	Low Pressure Sensor Failure		
43	High Pressure Sensor Failure		
44	ODU Air Temperature Sensor Failure		
45	Heat Exchanger Temperature Sensor Failure		
46	Inlet Temperature Sensor Failure		
47	Constant-speed No.1 Compressor Discharge Temperature Sensor Failure		
48	Constant-speed No.2 Compressor Discharge Temperature Sensor Failure		
49	IPM Temperature Sensor Failure		
50	Phase Loss of ODU 3-phase Power		
52	Communication Failure with the Inverter Controls		
53	Communication Failure between the IDU and ODU		
54	Reverse Phase of the ODU 3-Phase Power		
57	Communication Failure with the Inverter Controls		
59	ODU Installation Failure		
60	Inverter PCB EEPROM Error		
67	Fan Lock		
69	Constant-speed No.1 CT Sensor Error		
70	Constant-speed No.2 CT Sensor Error		
71	PFC CT Sensor Error		
73	Inverter Compressor PCB Instantaneous Overcurrent (Peak)		

Error Code	Description	
74	Inverter Phase Unbalance	
75	Fan CT Sensor Error	
76	Fan DC Link High Voltage Error	
77	Fan Overvoltage Error	
78	Fan Hall Sensor Error	
79	Fan Start Failure Error	
86	Main PCB EEPROM Error	
87	Fan PCB EEPROM Error	
88	PFC PCB EEPROM Error	
104	Communication Error between ODUs	
105	Fan Board Communication Error	
106	Fan PCB IPM Fault	
107	Fan DC Link Low Voltage Error	
113	Liquid Pipe Temperature Sensor Error	
115	Super-cooling Exit Temperature Sensor Error	
151	4-way Valve Switch Failure	
153	Left Heat Exchanger Temperature Sensor Error	
154	Right Heat Exchanger Temperature Sensor Error	
173	Constant-speed No.1 Overcurrent/Undercurrent	
174	Constant-speed No.2 Overcurrent/Undercurrent	
180	Plate Type Heat Exchanger Freezing & Bursting Error	
182	Sub Micom Communication Error	
188	Load-side Water Temperature Sensor Failure	
190	Inverter Board Heat Sink Temperature Increasing Excessively	
191	Inverter Board Heat Sink Temperature Sensor Failure	
193	Fan Board Heat Sink Temperature Increasing Excessively	
194	Fan Board Heat Sink Temperature Sensor Failure	

Pre-Tech Support Checklist

If the product malfunctions, please check the following before calling the service center.

Symptom	Check	Actions
I can't connect with the server.	 Is your computer connected to the internet? Is the server information entered correctly?	 Check your internet connection. Verify the IP address of the server.(If you are directly using the server, enter its IP address as 127.0.0.1.)
I can't log in.	Did you type in the correct password?	Make sure Caps Lock is not on and try again.
The program can't find the authentication key.	 Is the authentication key correctly connected? Is the authentication key connected to a USB hub? 	 Remove and reconnect the authentication key. The authentication key may not function when connected to a USB hub due to a lack of power. Connect the authentication key directly to the PC.
The device icon has the error mark.	Is your ACP operating normally?	Restart your ACP.







