

Feature Functions

Controller Name Model Name		AC Ez	AC Ez Touch	AC Smart 5 ⁶⁾	ACF	5 ⁶⁾	AC Manager 5 7)	Cloud Gateway	
		3 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	ACT TRACE ACT TRACE		0 16	3111 11111 31111 111111	●1.0 ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	faultons	
			PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	Using Lonworks	PACM5A000	PWFMDB200
	DO		-	-	2	4	2	-	-
	DI		-	1	2	10	2	-	-
		IDUs	32	64	128	256	64	8,192	16
		ERV	32	64	128	256	64	8,192	16
Product	Max.	A / C + ERV	32	64	128	256	64	8,192	16
	Connectable No.	AHU	-	-	16	16	16 ⁵⁾	16 x 32	-
	140.	Chiller	-	-	5	10	-	10 x 32	-
		Commercial Air Purifier 1)	-	-	64	128	-	128 x 32	-
	Air Condition	ner	O 3)	0	0	0	0	0	0
	Ventilation (ERV / ERV D	OX)	O 4)	0	0	0	0	0	0
	Heating		-	0	0	0	0	0	O 8)
Compatibility	AHU		-	-	0	0	0	0	-
	Chiller		-	-	O 5)	O 5)	-	0	-
	Commercial Air Purifier 1)		-	-	O 5)	O 5)	-	0	-
	ACS IO		-	-	0	0	O 5)	0	-
	Add Drawing		-	-	O 5)	O 5)	O 5)	0	-
	Group Management		-	0	O 5)	O 5)	O 5)	0	-
	Auto Changer Over		-	0	O 5)	O 5)	O 5)	0	-
	Set Back		-	0	O 5)	O 5)	O 5)	0	-
Additional -unction	Dual Setpoint		-	0	0	0	O 5)	0	-
	Change Alarm		-	Filter	Filter	Filter	Filter	Filter	-
	Indoor Unit Lock		O 2)	0	0	0	O 5)	-	-
	Cycle Monitoring		-	-	0	0	O 5)	0	0
	Air Purify		-	O 5)	O 5)	O 5)	-	0	-
Schedule			0	0	O 5)	O 5)	O 5)	0	O 9)
	Peak Control	Energy & Priority Control	-	0	0	0	O 5)	0	-
Auto Control		Outdoor Unit Capacity Control	-	-	○ ⁵⁾	○ ⁵⁾	○ ⁵⁾	0	-
	Time limit co	ntrol	-	-	O 5)	O 5)	O 5)	0	-
	Interlocking		-	-	O 5)	O 5)	O 5)	0	-
Energy Navigat			-	-	○ 5)	○ 5)	-	0	-
	Power		-	0	0	0	O 5)	0	O 8)
Energy	Gas		-	-	0	0	O 5)	0	-
Report	Run time		-	-	O 5)	O 5)	O 5)	0	-
	Save to PC /	USB (Excel)	-	-	PC / USB 5)	PC	PC	PC	-
Trend Reportin	_		-	-	○ 5)	O 5)	-	0	-
	Report (Cont	trol / Error)	-	Error	○ 5)	O 5)	O 5)	0	0
History	Send Email		-	-	O ⁵⁾	O 5)	O ⁵⁾	0	-
	Save to PC /		-	-	PC / USB	PC	O ⁵⁾	PC	-
	Summer Time		-	0	O ⁵⁾	O 5)	O ⁵⁾	0	-
etc	Outdoor Unit Oil-Return Operation		-	-	O 5)	O 5)	O 5)	-	-
	User Authority		-	Password	O 5)	O 5)	O 5)	0	-
	PC Access		-	0	O 5)	O 5)	O 5)	0	-

^{※ ○ :} Applied, - : Not Applied

1) The Commercial Air purifier must additionally install PI485 (PHNFP14A0).

2) Hard Lock

3) Except for some feature (Individual lock, Limit temp., etc.)

4) Except for some feature (User mode, additional function, etc.)

5) This function is not applied for BMS points.

6) Without additional device, ACP 5 and AC Smart 5 provide BACnet IP and Modbus TCP interface for BMS.

7) ACP 5 or AC Smart 5 is required.

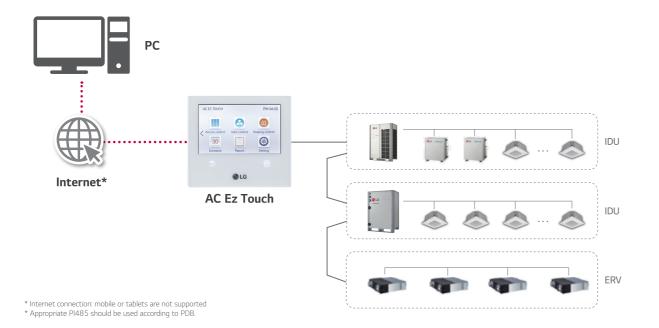
8) Only for Therma V

9) It will be released until 1Q in 2023.

CENTRALIZED

CONTROL

AC Ez Touch



PACEZA000

Smart management with 5 inch touch screen for small site.



MODEL NAME	PACEZA000
Size (W x H x D, mm)	137 x 121 x 25
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro Kit / THERMA V
Maximum number of units	64
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Error Check	0
Slave Mode (Interlocking with higher level controller)	0
Schedule	Weekly / Monthly / Yearly / Exception day
Remote Access	By client S/W (Neither Android nor IOS are supported)
Emergency Stop & Alarm Display	0
Power Consumption Monitoring (with PDI)	0
Auto Changeover / Setback	0
Temperature Limit	0
Operation History	Error record
ODU Low Noise 1)	0
Daylight Saving Time	0
External IO Port	DI 1
IPv6 Support	0
Air Purify Control	0
Air Quality Level	0

^{※ ○ :} Applied, - : Not Applied1) It is only available in some products.

PC Access

Users can control each space efficiently through PC access.



- * IPv6 supported
- Onen nort 80 & 9300
- Fix public IP is mandatory. Router configuration of NAT is required.

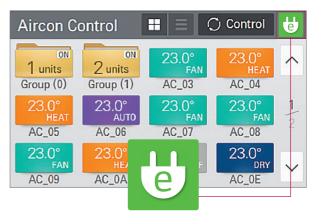
Energy Statistics (with PDI)

Statistics of operational status (Time, Power consumption) are provided to help make intelligent system operation decisions.

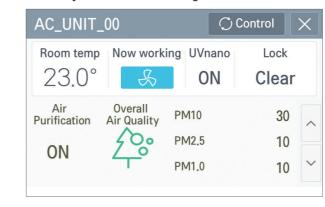


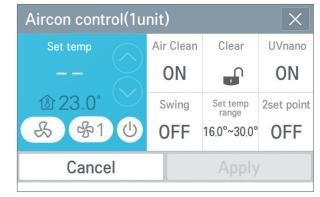
Energy Mode

When using energy mode function, operation Modes from cooling to fan or heating to off mode by force.
(It is available only for operating indoor unit)



Air Purify Control & Monitoring





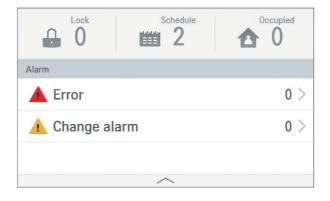
CENTRALIZED

CONTROL

AC Ez Touch

Alarm Indicator

It shows errors and alarm information. Users can respond immediately according to alarm indicator therefore HVAC system is monitored consistently.



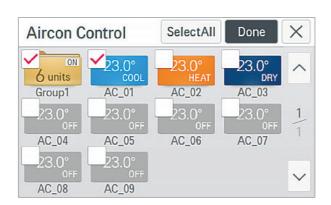
Schedule

Schedule control allows user to set the events in advance to maximize system performance. Also, by blocking unnecessary operation, it prevents a waste of energy.

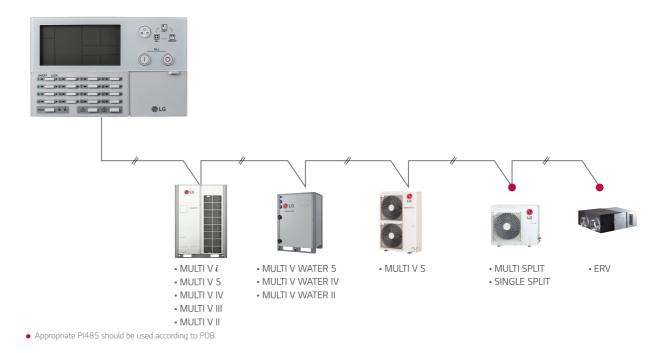


Group / Individual Control

User can control each indoor unit individually or by group by simply clicking each unit on control screen.



AC Ez



PQCSZ250S0

Easy to manage up to 32 indoor units, including ERV with simple interface.



Features & Benefits

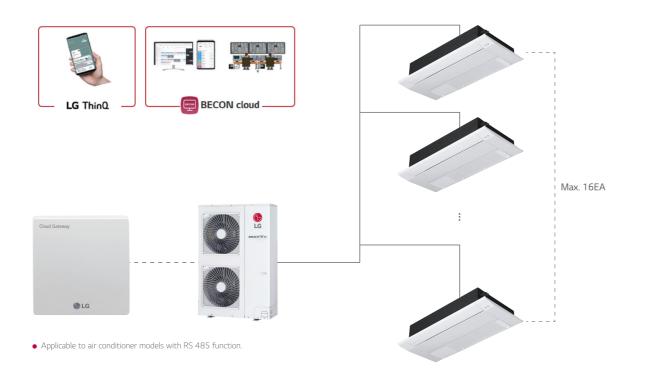
- 32 indoor units control
- Weekly Schedule
- Individual / Group Control

MODEL NAME	PQCSZ250S0
Size (W x H x D, mm)	190 x 120 x 20
Interfaceable Products	MULTI V / ERV / ERV DX
Display	LED / LCD Display
Power	DC12V, 1A
Maximum number of units	32
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	All
Error Check	0
Slave Mode (Interlocking with higher level controller)	0
Schedule	Weekly

※ ○ : Applied, - : Not Applied

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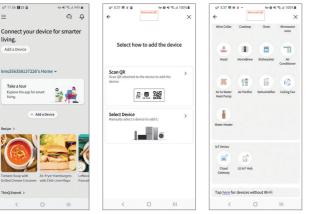
Cloud Gateway



PWFMDB200

Cloud Gateway can remotely control up to 16 indoor units through LG ThinQ or BECON Could.



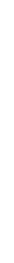


MODEL NAME	PWFMDB200
Size (W x H x D, mm)	120 x 120 x 29
Interfaceable Products	System Air Conditioner
Maximum Number of Units	16
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b/g/n
Mobile Application	LG ThinQ (Android 8.0 ↑, iOS 13.0 ↑)

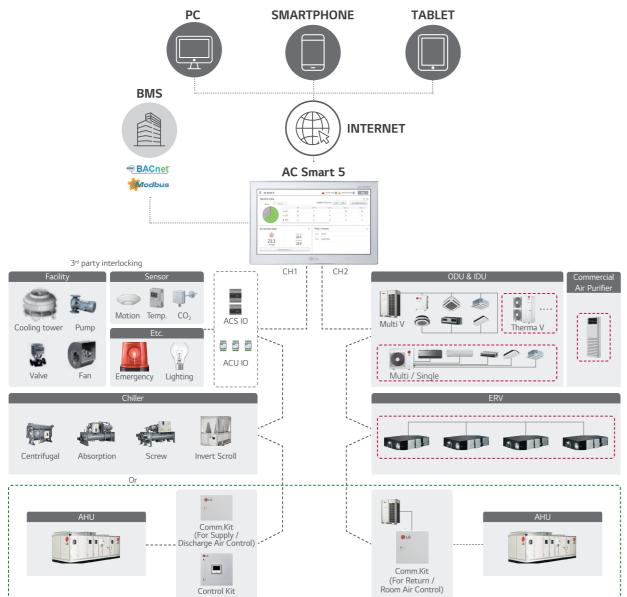
Function		ThinQ	BECON Cloud 1)	
Max. number of unit		16		
	Operation Start / Stop	0	0	
	Operation Mode	0	0	
Remote Control	Target Temperature	0	0	
Remote Control	Fan speed	0	0	
	Swing	0	0	
	Air Purify	0	0	
	MULTI V	○ ²⁾	0	
	GHP	0	0	
	MULTI	0	0	
Interlocking Product	Single	0	0	
	ERV	X	0	
	Heating	X	○ 3)	
Etc	Schedule	0	△ 4)	
	Electricity Monitoring	X	○ 3)	
	History	X	0	
Maintenance	Smart Diagnosis	0	X	
Maintenance	Cycle Monitoring	X	0	

Depending on the region, BECON Cloud may not be available. Please contact to BECON Cloud administrator for checking availability. (BECONcloud-biz@lge.com)
 Hydrokits are excluded
 Only for Therma V
 It will be released until 1Q in 2023.

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- $f \Box$ According to CH1 setting, normal ODU can be connected to CH1.
- (Flexible wiring design with 2 ports)

 Appropriate PI485 should be used according to PDB (Product Data Book).

 For details, refer to the product PDB or manual.

AC Smart 5

PACS5A000

10-inch touch screen with HTML5 GUI (Graphic User Interface) for easy control.











Map view



Mi
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Iulti level

MODEL NAME	PACS5A000
Size (W x H x D, mm)	253.2 x 167.7 x 28.9
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU Kit / LG Chiller / Commercial Air Purifier
Maximum number of units	128
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display 1)	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO ₂ Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)
Error Check	0
Slave Mode (Interlocking with higher level controller)	0
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	0
Emergency Stop & Alarm Display	0
Power Consumption Monitoring (with PDI)	0
Auto Changeover / Setback	0
Temperature Limit	0
Operation Time Limit	0
Visual Navigation	0
Operation Trend	0
Air Purify Control	0
Air Quality Level	0
Interlock Control	0
Virtual Group Control	0
ODU Capacity Control	0
Energy Navigation (with PDI)	0
Daylight Saving Time	0
External IO Port	DI 2 / DO 2
BMS Integration ²⁾	BACnet IP / Modbus TCP
IPv6 Support	0

: O: Applied, -: Not Applied
1) It is only available in some products.
2) For the detail point list, please refer to the installation manual.

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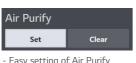
CONTROL

AC Smart 5

Air Purify Total Solution

Air Purify Control





- Easy setting of Air Purify function (Set / Clear)

Air Quality Level Monitoring





* The Commercial Air purifier must additionally install PI485(PHNFP14A0).

Commercial Air Purifier

Advanced Network Accessibility

AC Smart 5 reflects the state of the art of network technology trend. IPv6 (Internet Protocol version 6), which is the most recent version of the Internet Protocol provides accessibility to the IPv6 compatible network environment. In addition, HTML5 allows you to easily control LG HVAC system on a variety of platforms (PC, Mobile, Tablet), at any time and from any location, not just on the touch screen.



Visualized Control

Visual navigation enables controlling and monitoring the unit on floor, plan view for the intuitive management.



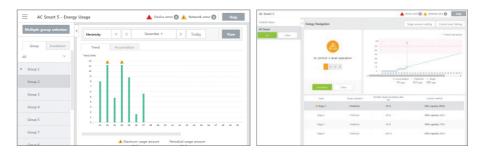
Multi Level Group Composition

User can make frequent and multi level group to control and monitor the device easily.



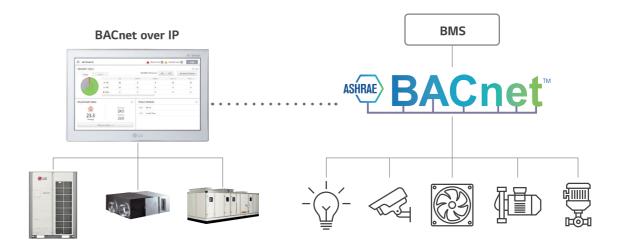
Energy Management

The energy navigation function allows the air conditioner's operational energy usage to be manged monthly, weekly and yearly. By analyzing present energy consumption and comparing with the plan, overuse of system operational costs can be prevented.



Building Management System (BMS) Integration

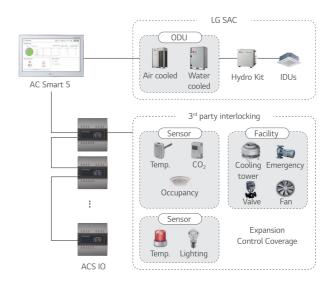
Without additional device, AC Smart 5 provides BACnet IP & Modbus TCP interface for BMS integration as well as its own management function.



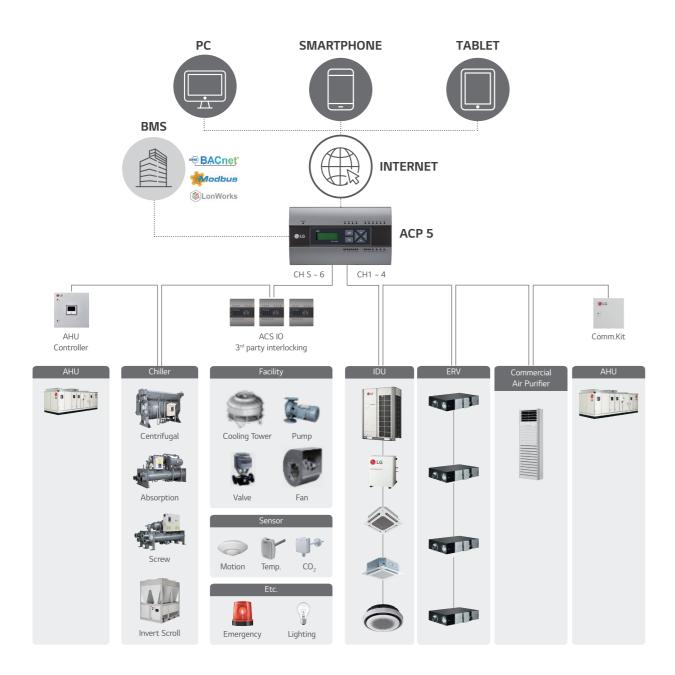
Interlocking with 3rd Party Equipment

AC Smart 5 can make operation scenario with 3rd party equipment by ACS IO Module and ACU IO Module. Control coverage is expanded.

(Air conditioner only → Sensors, Fans, Pumps, Switches…)



ACP 5



Advanced Network Accessibility

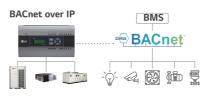


* Fix Public IP is mandatory.
* Router's Configuration of NAT is mandatory. Open port 80 & 9300.

Energy Navigation



BACnet IP & Modbus TCP



PACP5A000

Advanced solution for BMS integration up to 256 units via BACnet and Modbus protocol as well as its own smart management function with web server interface.



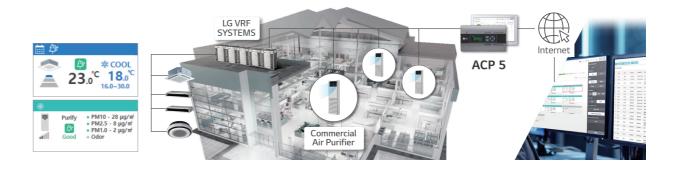
MODEL NAME	PACP5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU Kit / LG Chiller / Commercial Air Purifier
Maximum number of units	256
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display 1)	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO ₂ Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)
Error Check	0
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	0
Emergency Stop & Alarm Display	0
Power Consumption Monitoring (with PDI)	0
Auto Changeover / Setback	0
Temperature Limit	0
Operation Time Limit	0
Visual Navigation	0
Operation Trend	0
Air Purify Control	0
Air Quality Level	0
Interlock Control	0
Virtual Group Control	0
ODU Capacity Control	0
Energy Navigation (with PDI)	0
Daylight Saving Time	0
External IO Port	DI 10 / DO 4
BMS Integration ²⁾	BACnet IP / Modbus TCP
IPv6 Support	0

- (*) O : Applied, : Not Applied
 (*) It is only available in some products.
 (*) For the detail point list, please refer to the installation manual.

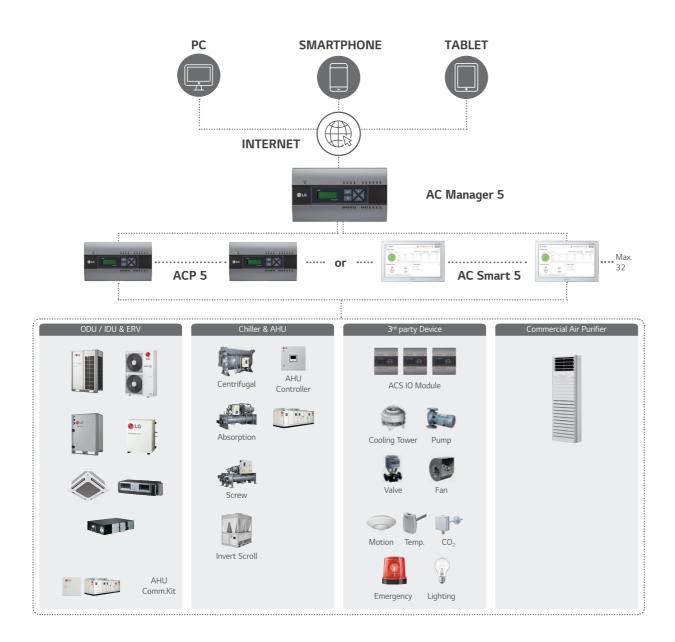
Air Purify Control / Monitoring

Integrated Management

The Commercial Air Purifier can be used with LG central controller to monitor and control.



AC Manager 5





PACM5A000

Multiple ACP and AC Smart integration solution to manage multi sites up to 8,192 units as a single system.



reddot awar User Interface Des

MODEL MANE	DA CALEA COO
MODEL NAME	PACM5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU Kit / LG Chiller / Commercial Air Purifier
Maximum number of units	8,192 (Supports 32 ACP 5 or AC Smart 5)
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Error Check	0
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	0
Emergency Alarm Display	0
Power Consumption Monitoring (with PDI)	0
Auto Changeover / Setback	0
Temperature Limit	0
Operation Time Limit	0
Visual Navigation	0
Operation Trend	0
Air Purify Control	0
Air Quality Level	0
Interlock Control	0
Virtual Group Control	0
ODU Capacity Control	0
Energy Navigation (with PDI)	0

※ ○ : Applied, - : Not Applied
Note : AC Manager 5 required for ACP 5 or AC Smart 5

Up to 8,192 Connections for Indoor Units

Administrators can easily and conveniently manage a variety of LG HVAC equipment. Also, it is available to manage many buildings or areas at one place via AC Manager 5.



Smart Air Purify Solution

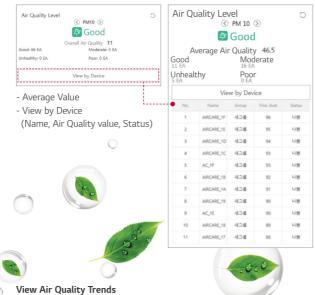
AC Manager 5

Total management of air purify function creates clean environment everyday.

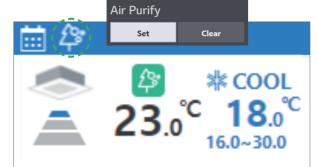












- Easy setting of Air Purify function (Set / Clear)



- Daily (per hour), period (30 days) shows trends
- Excel output / easy to manage

Advanced Network Accessibility & User Friendly GUI

As an advanced central controller, AC Manager 5 offers flexible interface for each user by assessing the device screen and automatically customizing the layout to provide the most optimized interface.



reddot award

Energy Navigation & Energy Usage Graph

Energy navigation is the function to set the target usage amount to limit the monthly power consumption and to control so that the total accumulated power consumption does not exceed the target usage amount. It performs total of 7 control levels with the estimated / actual usage amount exceeding ratio compared to the monthly target usage amount. For the control method, there are indoor unit operation ratio, outdoor unit capacity control, and indoor unit operation control.











Compressor Capacity Control

IDU Operation Ratio Control

IDU Operation Level

Peak Control

This function can reduce electricity use. There are two kinds of control logic. Energy saving effect by indoor unit operation rate control. Load management effect by outdoor unit capacity control.

Operation ratio (IDUs) Control



ODU Capacity Control



Compressor Hz Control

Multi Level Group Composition

User can make frequent and multi level group to control and monitor the device easily.

