

AIR CONDITIONING SYSTEMS

CONTROLS & ACCESSORIES 2016









ABOUT LG



About LG Electronics USA

LG Electronics USA, Inc., based in Englewood Cliffs, NJ, is the North American subsidiary of LG Electronics, Inc., a \$56 billion global force and technology leader in consumer electronics, home appliances and mobile communications. LG Electronics, a proud 2015 ENERGY STAR® Partner of the Year, sells a range of stylish and innovative home entertainment products, mobile phones, home appliances, commercial displays, air conditioning systems and solar energy solutions in the United States, all under LG's "Life's Good" marketing theme. For more news and information on LG Electronics, please visit www.LG.com.

LG Electronics USA Air Conditioning Systems

The LG Electronics USA Commercial Air Conditioning business is based in Alpharetta, GA. LG is a leading player in the global air conditioning market, manufacturing both commercial and residential air conditioners and providing total sustainability and building management solutions. From consumer and individual units to industrial and specialized air conditioning systems, LG provides a wide range of products for heating, ventilating and air conditioning. For more information, please visit www.lghvac.com.

By utilizing advanced control strategies, LG Air Conditioning Systems not only save energy, they also increase operational convenience and living standards.

LG offers a variety of controls, including individual zone control, central control, and building management system integration control options that scale easily to meet the requirements of jobs small to large. User-friendly controllers from LG allow users to control and monitor their entire system at the touch of a button. Centralized controllers provide building owners, facilities managers and maintenance personnel with the ability to manage the entire LG air conditioning system from a single location. This allows convenient management of air conditioning units and other facilities equipment—even in multiple sites—which helps ensure the highest energy savings are realized from the system.



LG building controllers allow for interfacing with third-party building management systems and also control sub-market segments such as lighting control, security control and access control. Built to be compatible with the entire family of LG Air Conditioning Systems products, LG controls are the best way to achieve the highest performance from LG systems.

ENHANCED ENERGY SAVINGS While LG Air Conditioning Systems are engineered for efficiency, there are many ways that LG controls can help save even more energy with advanced features like scheduling and setpoint range limiting.

CONVENIENCE

LG controls come with features that make them easy to use and make LG systems easy to control. From our touch screen interface on the AC Smart BACnet to modes like auto-changeover, you are sure to be pleased with the aesthetic appeal of the control as well as its ease of use.

EASY TO INSTALL

The LG communications network is based on simple two-wire, daisy chain architecture that reduces installation cost and complexity. This allows the system to be installed by the mechanical contractor, eliminating the need for costly building management system integration contractors and specialists.

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CONTROLS

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CONTROLSLineup

	INDIVIDUAL C	ONTROLLERS		CENTRAL CONTROLLERS
	Wired Remote Controller		Wireless Remote	
Premium	Standard	Simple	Controller	System
72.61 = 6				AC Smart IV
PREMTA000	PREMTB10U	PQRCVCL0QW	PQWRHQ0FDB	PACS4B000
		PQRCVCLOQ		ACP IV PACP4B000
		PQRCHCA0QW		AC EZ PQCSZ250S0
		PQRCHCA0Q		

SYSTEM INTEGR	RATION DEVICES		OTHER INTEGR	ATION DEVICES	
Gateway	Facility Integrator	Indoo Dry Contact	r Unit Control Accessory	Outdoor Unit	AHU Kit
AC Smart IV BACnet	PDI (Power Distribution Indicator)	Dry Contact for Thermostat	Remote Temperature Button Sensor	Low Ambient Kit	Communication Kit
PBACNA000	Premium (8 port) PQNUD1541 Standard (2 port)	PDRYCB300	ZRTBS01	PRVC2	PRCKAM
ACP IV BACnet	PPWRDB000 IO Module (Input / Output Module)	Dry Contact for Economizer	Remote Sensor	Cool / Heat Selector	Communication Kit
•• •• •• ••	1777 1111 1000 1001		O LA		e La
PQNFB17C2	PEXPMB000	PQDSB1	PQRSTA0	PRDSBM	PRDCAM
ACP LonWorks		Simple Dry Contact	PI-485 For ERV	Variable Water Flow Control Kit	EEV Kit
•••				6	⊗ LG
PLNWKB000		PDRYCB100	PSNFP14A0	PWFCKN000	PRLK048A0 (8 Ton) PRLK096A0 (16 Ton)
			CO2 Sensor for ERV		
			Ç		
			PES-CORVO		
			Group Control Wire PZCWRC1		
			Extension Cable		
			PZCWRC1		

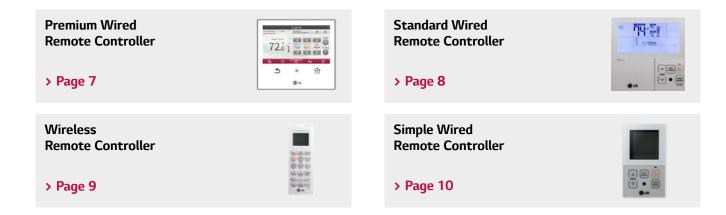
AIR CONDITIONING SYSTEMS

INDIVIDUAL CONTROLLERS





INDIVIDUAL CONTROLLERS



Remote Controller Lineup

		I	1	
Model Name	72.5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PREMTB10U	PQWRHQ0FDB	PQRCVCLOQW PQRCVCLOQ PQRCHCAOQW PQRCHCAOQW
On / Off	•	•	•	•
Fan Speed Control	•	•	•	•
Temperature Setting	•	•	•	•
Mode Change	•	•	•	•
Additional Mode Setting	•	•	•	•
Auto Swing	•	•	•	•*
Vane Control (Louver Direction)	•	•	•	-
E.S.P. (External Static Pressure)	•	•	-	•
Reservation	Weekly / Yearly	Simple / Sleep / On / Off / Weekly / Holiday	Sleep, on / off	-
Child Lock	•	•	-	•
Settings Recovery	•	•	-	•*
Time Display	•	•	•	-
Filter Sign	Time Remaining & Alarm	•	-	-
Energy Management**	•	•	-	•
Setback	Two set points control	-	-	-

^{*} This feature is not available for PQRCHCA0QW/PQRCHCA0Q

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.

^{**} A central controller and PDI are required for this function.

PREMIUM WIRED REMOTE CONTROLLER

PREMTA000



Features

- Designed to optimize user experience
- Full touch/Intuitive GUI (graphical user interface)
- Main display simple mode/Touch buzzer
- Two set points control
- Improved scheduling
- Timer/Daily/Weekly/Yearly/Holiday
- Self-management for energy saving
- Time limit operation/Power consumption monitoring
- Weekly/Monthly/Yearly trend tracking
- Target alert alarm
- Temperature range setting

Model Name	PREMTA000
On / Off	•
Fan Speed Control	•
Temperature Setting	•
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	•
Vane Control (Louver Direction)	•
E.S.P. (External Static Pressure)	•
Reservation	Simple / Sleep / On / Off / Weekly / Yearly / Holiday
Time Display	•
Electric Failure Compensation	•
Child Lock	•
Filter Sign	Time Remaining & Alarm
Energy Management	Check Energy Usage* / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Popup / Initialization Usage Data
Operation Status LED	•
ndoor Temperature Display	•
Wireless Remote Controller Receiver	•
Display	5-inch TFT color LCD (480 x 272)
Dimensions WxHxD (in)	5-1/2 x 4-3/4 x 3/4
Backlight	•
Home Leave	Two set points control

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.

STANDARD WIRED REMOTE CONTROLLER

PREMTB10U



Features

Nodel Name	PREMTB10U
On / Off	•
an Speed Control	•
emperature Setting	•
Node Change	Cooling / Heating / Auto / Dehumidification / Fan
dditional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
auto Swing	•
ane Control (Louver Direction)	•
.S.P. (External Static Pressure)	•
eservation	Simple / Sleep / On / Off / Weekly / Holiday
ime Display	•
ectric Failure Compensation	•
nild Lock	•
lter Sign	Time Remaining & Alarm
peration Status LED	•
door Temperature Display	•
/ireless Remote Controller Receiver	•
imensions WxHxD (in)	4-3/4 x 4-3/4 x 5/8
acklight	•
nergy Management	• **
heck Model Information	•

^{**} A central controller and PDI are required for this function.

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.

WIRELESS REMOTE CONTROLLER

PQWRHQ0FDB



Features

Model Name	PQWRHQ0FDB	
On / Off	•	
Fan Speed Control	•	
Temperature Setting	•	
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	
Additional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Auto Dry	
Auto Swing	•	
Vane Control (Louver Direction)	•	
Reservation	Sleep / On / Off	
Indoor Temperature Display	•	
Sleep Mode Auto	Max. 7 hours	
Dimensions WxHxD (in)	2-3/16 x 6-3/16 x 1- 3/16	

 $NOTE: Available functions/features \ may \ differ \ based on the \ connected \ system. \ Due \ to \ our \ policy \ of innovation, some \ specifications \ may \ be \ changed \ without \ notification.$

SIMPLE WIRED REMOTE CONTROLLER

With Mode Selection







PQRCVCL0Q (Black)

Without Mode Selection



PQRCHCA0QW (White)



PQRCHCA0Q (Black)

Features

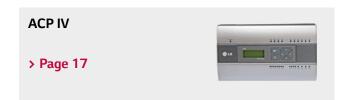
Model Name	PQRCVCL0QW / PQRCVCL0Q	PQRCHCA0QW / PQRCHCA0Q
On / Off	•	•
Fan Speed Control	•	•
Temperature Setting	•	•
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	Only Changeable by Central Controller
Auto Swing	•	-
Vane Control (Louver Direction)	•	-
E.S.P. (External Static Pressure)	•	•
Electric Failure Compensation	•	-
Child Lock	•	•
Indoor Temperature Display	•	•
Wireless Remote Controller Receiver	•	•
Dimensions WxHxD (in)	2-3/4 x 4-3/4 x 5/8	2-3/4 x 4-3/4 x 5/8
Backlight	•	•

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.



CENTRAL CONTROLLERS





Central Controller Lineup

Model Name	PACS4B000	PACP4B000	PQCSZ250S0
Maximum Number of Indoor Units	128	256	32
Individual / Group Control (On/Off, Mode, Set Point, Fan Speed)	•	•	•
Ventilation Control	•	•	•
Individual Controller Lock	•	•	•
Error Check	•	•	•
Schedule	•	•	•
Operation History	•	•	-
Visual Navigation	•	•	-
Operation Time Limit	•	•	-
Temperature Limit	•	•	-
Internet Access 1)	•	•	-
Auto Changeover/Setback	•	•	-
Power Consumption Monitoring (with PDI)	•	•	-
Interlock Control	•	•	-
Virtual Group Control	•	•	-
Emergency Pattern Display	•	•	-
IO Module Interlocking	•	•	-

¹⁾ An IP address is required to access the central controller through the internet.

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.

AC SMART IV

Large 10.2 inch touch screen with intuitive GUI (Graphic User Interface) for easy system control.

PACS4B000

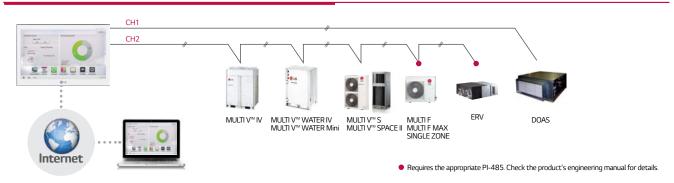


Features

Iodel Name	PQCS4B000
Maximum Number of Indoor Units	Up to 128
ndividual / Group Control	•
entilation Control	•
ndividual Controller Lock	● (Temperature / Mode / Fan / All)
rror Check	Self Diagnosis
lode Change	Cooling / Heating / Auto / Dehumidification / Fan
chedule	Daily / Weekly / Monthly / Yearly / Exception Day
peration History	•
isual Navigation	•
peration Time Limit	•
emperature Limit	•
iternet Access 1)	•
uto Changeover / Setback	● (Two set)
ower Consumption Monitoring (with PDI)	•
nterlock Control	•
irtual Group Control	•
mergency Alarm Display	•
) Module Interlocking	•
xternal IO Port No.	DI 2 / DO 2
imensions WxHxD (in)	10 x 6-5/8 x 1-3/16

 $^{^{1)}\,\}mathrm{An\,IP}$ address is required to access the central controller through the internet.

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.



AC SMART IV

Functions



Schedule

You can set a schedule for system air conditioner in advance for timed events. Optimize system performance by enabling system operation only as needed from centralized control management.



Energy Statistics (with PQNUD1S41 or PPWRDB000)

Statistics of operational status (time and energy management) are provided to help make intelligent system operation decisions.



Interlocking

Allows interlocked operation of devices or between digital inputs and outputs on the AC Smart IV.



Visual Navigation

Provides one view of the system's operation status for the building's floor plan.



Operation Report

A report including control status and other information is provided to allow for operation history review. Data can be sent by e-mail or stored externally via USB.



Emergency Display

The entire display will show a red alert in an emergency situation while all other control signals are disabled.

ACP IV (ADVANCED CONTROL PLATFORM)

PACP4B000

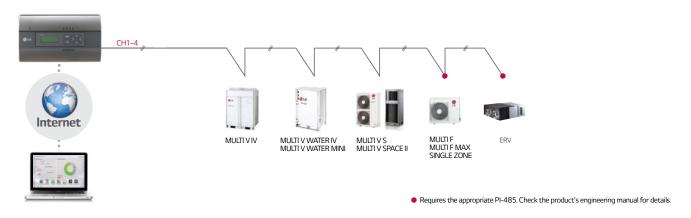


Features

Model Name	PACP4B001
Maximum Number of Indoor Units	Up to 256
Individual / Group Control	•
Ventilation Control	•
Individual Controller Lock	● (Temperature / Mode / Fan / All)
Error Check	Self Diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Monthly / Yearly / Exception Day
Operation History	•
Visual Navigation	•
Operation Time Limit	•
Temperature Limit	•
Internet Access ¹⁾	•
Auto Changeover / Setback	● (Two set)
Power Consumption Monitoring (with PDI)	•
Interlock Control	•
Virtual Group Control	•
Emergency Alarm Display	•
IO Module Interlocking	•
External IO Port No.	DI 10 / DO 4
Dimensions WxHxD (in)	10-11/16 x 6-3/16 x 2-5/8

¹⁾ An IP address is required to access the central controller through the internet.

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.



PQCSZ250S0

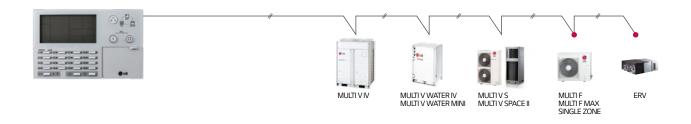


Features

Model Name	PQCSZ250S0	
Maximum Number of Indoor Units	32	
Individual / Group Control	•	
Ventilation Control	•	
Individual Controller Lock	•	
Error Check	LCD Display	
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	
Schedule	Weekly	
Display	Operation Status, Set Temperature, Room Temperature, Schedule	
Dimensions WxHxD (in)	7-1/2 x 4-3/4 x 11/16	
Power	DC 12V	

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.

System Communication Architecture



Requires the appropriate PI-485. Check the product's engineering manual for details.

SYSTEM INTEGRATION DEVICES

GATEWAY FACILITY INTEGRATOR PDI AC Smart IV BACnet (Power Distribution Indicator) Premium (8 port) PQNUD1S41 PBACNA000 Standard (2 port) PPWRDB000 IO MODULE ACP IV BACnet (Input / Output Module) PQNFB17C2 PEXPMB000 ACP LonWorks PLNWKB100

AC SMART IV BACNET GATEWAY

PBACNA000

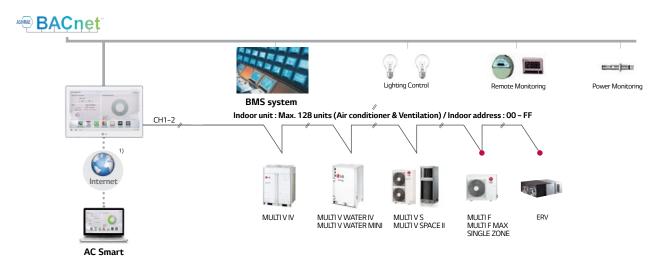


Features

- Controls up to 128 indoor units
- Controls up to 16 AHU Control kits
- Provides graphical user interface that allows centralized control
- BTL Listed (B-ASC)
- Integrates Multi V and select Mini and Multi Split systems with third-party building management systems using a large 10.2-inch touch screen with intuitive GUI (graphical user interface).

Controlling	Monitoring Items	
On/Off Command	On/Off Status	
Operation Mode Setting	Operation Mode Status	
Fan Speed Setting	Fan Speed Status	
Lock Setting	Lock Status	
Air Flow Setting	Air Flow Status	
Temperature setpoint	Temperature setpoint status	
-	Current Space Temperature Status	
-	Error Status	
User Mode Setting	User Mode Status	
-	Accumulator Power Distribution Status	
Upper Limit Temp. Setting	Upper Limit Temperature Status	
Low Limit Temp. Setting	Low Limit Temperature Status	
Mode Lock Setting	Mode Lock Status	
AC Operation Mode Setting	AC Operation Mode Status	
AC On/Off Command	AC On/Off Status	
Occupied/Unoccupied	Occupied/Unoccupied	
Dual Temperature Setpoint Setting	Dual Temperature Setpoint Status	

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.



- Requires the appropriate PI-485. Check the product's engineering manual for details.
- 1) Assignment of an IP address is required to access central controller through the Internet. BACnet® is a registered trademark of ASHRAE

ACP IV BACNET GATEWAY

Replaces current model PQNFB17C1—available Summer 2016.

PQNFB17C2

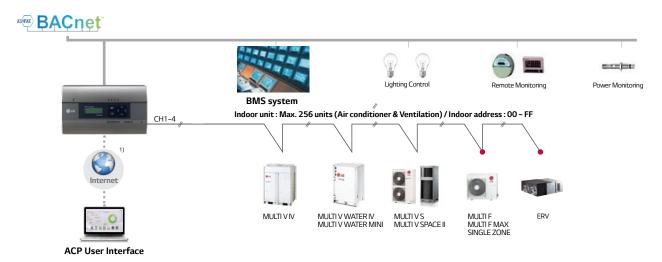


Features

- Controls up to 256 indoor units
- Controls up to 16 AHU Control kits
- Provides graphical user interface that allows centralized control
- BTL Listed (B-ASC)

Controlling	Monitoring Items
On/Off Command	On/Off Status
Operation Mode Setting	Operation Mode Status
Fan Speed Setting	Fan Speed Status
Lock Setting	Lock Status
Air Flow Setting	Air Flow Status
Temperature setpoint	Temperature setpoint status
-	Current Space Temperature Status
-	Error Status
User Mode Setting	User Mode Status
-	Accumulator Power Distribution Status
Upper Limit Temp. Setting	Upper Limit Temperature Status
Low Limit Temp. Setting	Low Limit Temperature Status
Mode Lock Setting	Mode Lock Status
AC Operation Mode Setting	AC Operation Mode Status
AC On/Off Command	AC On/Off Status
Occupied/Unoccupied	Occupied/Unoccupied
Dual Temperature Setpoint Setting	Dual Temperature Setpoint Setting

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.



- Requires the appropriate PI-485. Check the product's engineering manual for details.
- 1) Assignment of an IP address is required to access central controller through the Internet. BACnet® is a registered trademark of ASHRAE

ACP LONWORKS GATEWAY

PLNWKB000



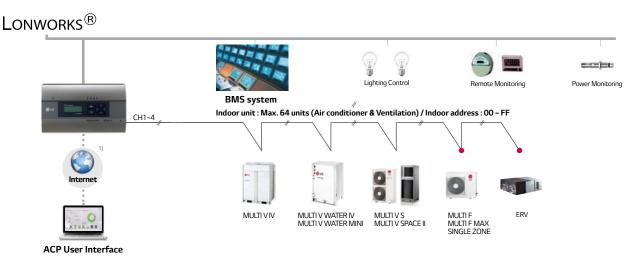
Features

- Controls up to 64 indoor units
- Controls up to 16 AHU Control kits
- Provides graphical user interface that allows centralized control
- · LonMark Certified

Controlling	Monitoring Items			
On / Off Command	On / Off Status			
Operation Mode Setting	Operation Mode Status			
Fan Speed Setting	Fan Speed Status			
Lock Setting	Lock Status			
Air Flow Setting	Air Flow Status			
Set Temperature Setting	Set Temperature Status			
-	Current Space Temperature Status			
-	Error Status			
-	Accumulator Power Distribution Status			
Upper Limit Temp. Setting	Upper Limit Temperature Status			
Low Limit Temp. Setting	Low Limit Temperature Status			
Mode Lock Setting	Mode Lock Status			
Peak Operation Ratio Setting	Peak Operation Ratio Status			
All On / Off Setting	-			
-	Total Accumulated Power Status			

NOTE: Available functions/features may differ based on the connected system.

Due to our policy of innovation, some specifications may be changed without notification.



- Requires the appropriate PI-485. Check the product's engineering manual for details.
- 1) Assignment of an IP address is required to access central controller through the Internet. Lonworks is a registered trademark of the Echelon Corporation.

I/O MODULE (INPUT/OUTPUT MODULE)

PEXPMB000



Features

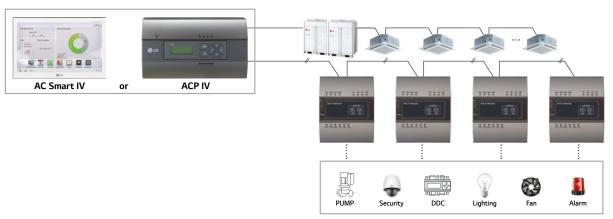
Мос	lel Name	PEXPMB000		
Linkable Products		AC Smart IV ACP IV		
Communication RS-485		1		
	DI	3		
1/0	DO	3		
1/0	UI	4		
	AO	4		

Interf	ace Type	Min.	Max.	
	NTC 10k	0.68kΩ	177kΩ	
	PT 1000	803kΩ	1573kΩ	
Analog Input	Ni 1000	871.7kΩ	1675.2kΩ	
	DC (Voltage)	OV	10V	
	DC (Current)	0mA	20mA	
Analog Output	-	OV	10V	
Digital Input	Digital Input Binary Input (Dry Contact)		-	
Digital Output	Digital Output Normal open		30VAC / 30VDC, 2A	

	AC Smart IV	ACP IV
Number of Indoor Units	64~128	128~256
Max. I/O Points	130	224
Maximum Number of Node	9	16

^{*} Maximum number of Indoor units may be reduced by increasing the number of I/O points. NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.

System Communication Architecture



- Sensor / Valve / Actuator
- Pump / Fan etc.

NOTE: For a full list of compatible features, check the latest Engineering Manual.

PDI PREMIUM (POWER DISTRIBUTION INDICATOR)

Premium

PQNUD1S41 (8 port)

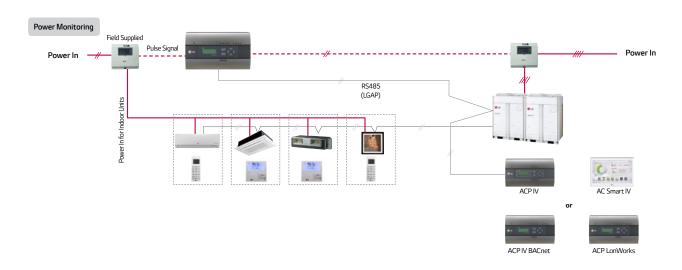
Standard

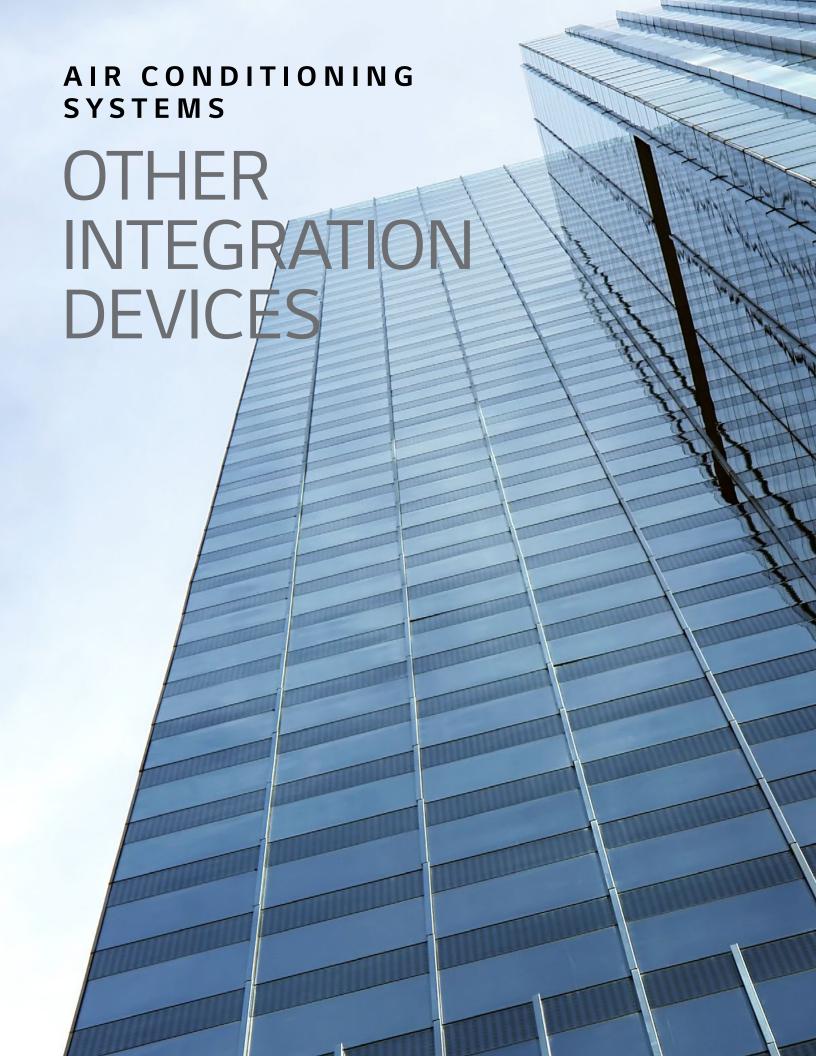
PPWRDB000 (2 port)



Features

- Power monitoring data is backed up in the event of a power outage
- Connector can be separated for convenient installation
- Linkable with RS485 communication type or pulse type power meter
- Shows power consumption of up to 128 indoor units.





OTHER INTEGRATION DEVICES

Lineup

INDOOR UNIT		OUTDOORUNIT	AHU KIT	FOR ERV	
Dry Contact	Control Accessory	OUTDOOK UNIT	AHUKII	TORERV	
Dry Contact for Thermostat	Remote Temperature Button Sensor	Low Ambient Kit	Communication Kit	CO ₂ sensor	
	0		⊚ LG	Q.	
PDRYCB300	ZRTBS01	PRVC2	PRCKAM	PES-CORVO	
Dry Contact for Economizer	Remote Sensor	Variable Water Flow Control Kit	Communication Kit	PI-485	
••	® 10		© LG		
PQDSBC1	PQRSTA0	PWFCKN000	PRDCAM	PSNFP14A0	
Simple Dry Contact	Group Control Wire	Cool / Heat Selector	EEV Kit (Electronic Expansion Valve Kit)		
PDRYCB100	PZCWRCG3	PRDSBM	PRLK048A0 / PRLK096A0		
	Extension Cable PZCWRC1				

DRY CONTACT

Simple Dry Contact

PDRYCB100





Features

Model Name	PDRYCB100
Contact Point	One Contact Point
Power Input	AC 24V
Voltage / Non Voltage Input	
On / Off Control	•
Lock / Unlock	·
Thermo Off	·
Energy Saving	·
Temperature Setting	·
Error Monitoring	•
Operation Monitoring	•
Dimensions WxH (in)	4.73 x 4.73

* Maximum operation AC: 3A

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.



DRY CONTACT

Dry Contact for Economizer

PQDSBC1

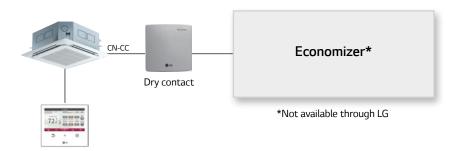


Features

Model Name	PDRYCB100
On / Off	•
Economizer	•
Occupied / Unoccupied	•
Remote Lock / Unlock	•
Compressor Stop	•
Dimensions WxH (in)	4.73 x 4.73

^{*} Maximum operation AC : 3A

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.



DRY CONTACT

Dry Contact for Thermostat (5-12Vdc, 24Vac)

PDRYCB300



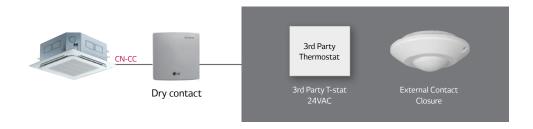


Features

Model Name	PDRYCB300
On / Off Control	•
Mode Control	● (Cool, Heat, Fan)
Fan Speed Setting	● (Low, Middle, High)
Thermo Off	•
Error Monitoring	•
Operation Monitoring	•
Rotary Switch 1	Operating Set Temperature Selection
Rotary Switch 2	Operating Logic Selection
Dimensions WxH (in)	4.73 x 4.73
Power Input	24V AC

^{*} Maximum operation AC: 3A

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.



CABLES

PZCWRCG3 PZCWRC1



Features

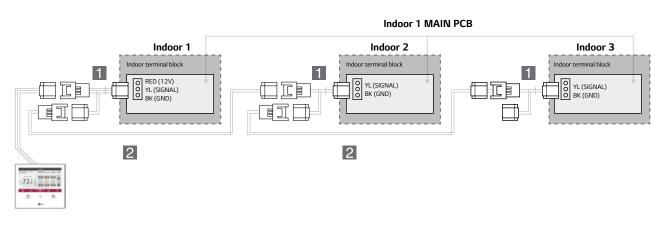
Description	Model	Length (ft.)
Group Control Cable Kit	PZCWRCG3	0.82
Extension Cable	PZCWRC1	32.8

^{*} Maximum operation AC: 3A

Connect up to 16 indoor units with the group control cable kit. Extend the control wire up to 32.8 ft with the extension cable.

 $NOTE: Available \ functions/features \ may \ differ \ based \ on \ the \ connected \ system. \ Due \ to \ our \ policy \ of \ innovation, some \ specifications \ may \ be \ changed \ without \ notification.$

System Communication Architecture



Note : 1 Group Control Cable Kit 2 Extension Cable

REMOTE TEMPERATURE BUTTON SENSOR

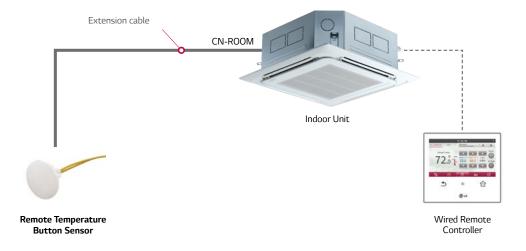
ZRTBS01



Features

- 0.8" Diameter (approximate size of a quarter) flush button mounts virtually anywhere
- · Paintable with latex or oil base to match any decor
- Replaces IDU return air sensor for remote temperature sensing
- Connects to CN-ROOM on IDU PCB
- · Compatible LG indoor units: All cassette and ducted IDUs for Multi V, Multi F, Multi F MAX, and Single Zone
- Applied to Ceiling Mounted Cassette, Ceiling Concealed Duct, and Hydro Kit
- Extension cable (49 ft) is included

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.



REMOTE TEMPERATURE SENSOR

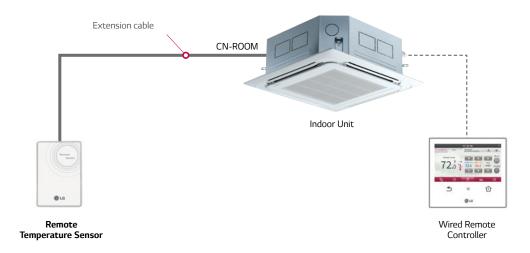
PQRSTA0



Features

- Replaces indoor unit return air sensor for remote temperature sensing
- Connects to CN-ROOM plug on indoor unit PCB
- Compatible with cassette and ducted models only

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.



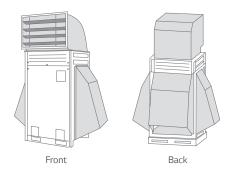
LOW AMBIENT KIT

External integration module for cooling operation with -9°F low ambient temperature.

PRVC2



Features



FUNCTION

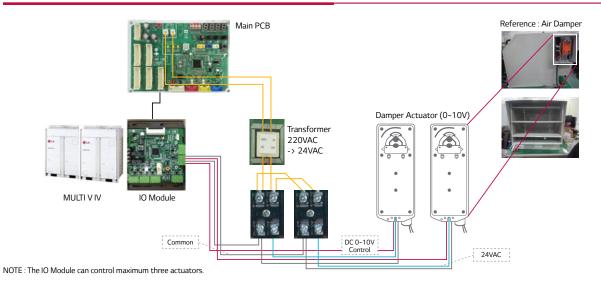
- -9° F Low ambient cooling operation using Low ambient kit and hood with damper (Analog output 0~10V)
- Demand control

DESCRIPTION

- Low ambient kit supports -9 °F cooling operation by making stable condensing pressure with reducing air flow rate from hood and damper control given 0~10V proportional to condensing pressure.
- Low ambient kit provides IO Module function.
- The appropriate Low Ambient Baffle Kit is a required accessory.
- Transformer and terminal block are included.

Models applied

• MULTI V IV



VARIABLE WATER FLOW CONTROL KIT

Accessory developed for controlling the water flow

PWFCKN000



Features

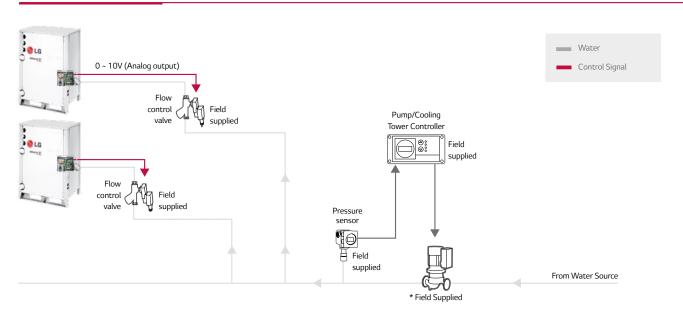
FUNCTION

- Water valve control (0~10V)
- Minimum output voltage setting available
- Operation, error output (250VAC, Max 1A)
- Dry contact input and analog output for demand control
- Digital output for operation, error status (250VAC, Max 1A)

ADVANTAGE

- Water flow consumption reduction
- Pump electricity consumption reduction
- Including IO Module (Dry contact input, Analog input/output, Digital output)
- : Using Dry contact and variable water flow control function simultaneously

Wiring Diagram



AIR HANDLING UNIT (AHU) MODULES

Solution to extend the benefits of LG VRF technology to third party Air Handling Units.



Specifications

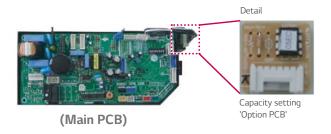
Martel	Na-4-1	Combination					Dimensions (in)		
Туре	Type Model Name	Outdoor unit	EEV Kit	Expansion Kit	Central controller	Description	w		D
Communication Kit	PRCKAM	MULTI V	•	•	•	Return/room air by remote controller or dry contact control	11-13/16	11-13/16	6-1/8
	PRDCAM	MULTI V	•	•	-	Return/room air or supply air (capacity) control by DDC. This unit is connected with outdoor unit1:1	15-3/4	19-11/16	8-3/8

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.

Capacity Selection

For MULTI V

- When selecting evaporator, change 'Option PCB' in Communication kit according to below table (Basic 'Option PCB' is for 36k Btu/h)
- After verifying the required capacity, remove the 36k Option PCB equipped in the main PCB, and replace with the corresponding Option PCB in the table to the right.



Option PCB P/No	Capacity Index (Btu/h)
EBR52358907	28k
EBR52358908	36k
EBR52358909	42k
EBR52358910	48k
EBR52358911	76k
EBR52358912	96k
EBR52358914	115k
EBR52358915	134k
EBR52358916	153k
EBR52358917	172k
EBR52358913	192k

Function list for Communication Kit

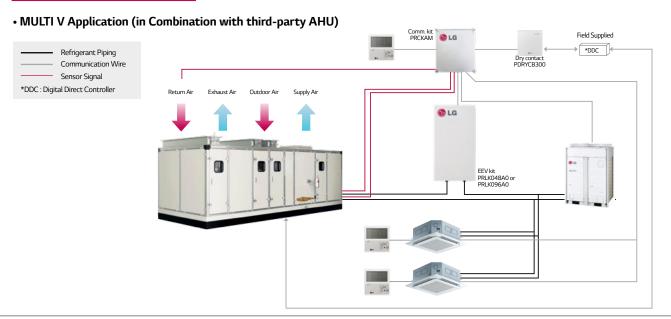
			Specification			
	List	Description	PRCKAM		PRDCAM	
			Min	Туре	Min	Мах
	Outdoor Unit Operation	On/Off	By wired controller*	Digital input** (Non-voltage)	-	-
бı	Mode	Fan only/heating/cooling		Digital input (Non-voltage)	-	-
Controlling	Fan Step	High/mid/low (three steps)		Digital input (Non-voltage)	-	-
Ö	Room Temperature Control	Cooling 64 ~ 86°F, Heating 60 ~ 86°F	By wired controller*	Analog input	0 V	10 V
	Supply Air Temperature (by outdoor capacity control)	Compressor Off, Compressor Off & Fan Off, 40 ~ 100% capacity control	-	Analog input	0 V	10 V
	Outdoor Unit Operation	On/Off	-	Digital input** (Non-voltage)	Max : AC 250 V, DC 30 V, 1A	
Ð	AHU Communication Kit Operation	On/Off	-	Digital input (Non-voltage)	Max : AC 250 V, DC 30 V, 1A	
Monitoring	Outdoor Mode	Fan/defrost/cooling/heating	-	Digital input (Non-voltage)	Max : AC 250 V, DC 30 V, 1A	
2	Fan Mode	High/mid/low (three steps)		Digital input (Non-voltage)	Max : AC 250 V, DC 30 V, 1A	
	Error Status	No error/error occurred		Digital input (Non-voltage)	Max : AC 250	V, DC 30 V, 1A

 $[\]hbox{* Optional accessory, recommended model: } \hbox{PREMTB10U}$

Specifications

Туре	Type Model Name Description Capacity F	Capacity Range	Dimensions (in)			
type wiouectvanie Description	Description	Capacity Kange	w	н	D	
TILLIOTOAO		For MULTI V - In combination with or	8 tons maximum	8-5/8	15-15/16	3-5/16
EEV Kit	PRLK096A0	without indoor units. Several EEV kits can be connected to a single outdoor unit.	16 tons maximum	8-5/8	15-15/16	3-5/16

System Architecture



^{**} Binary input and output (Open and short), DO is normal open

COOL/HEAT SELECTOR

PRDSBM



Features

- Provides a single location for choosing cooling, heating, or fan mode for the entire system.
- Mode lock for cooling & heating

Models Applied

- MULTI V IV
- MULTI V S
- MULTI V WATER IV
- MULTI V SPACE II
- MULTI V WATER MINI

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.



ACCESSORIES FOR ERV

These accessories allow for additional functionality when using LG ERV systems.

PSNFP14A0 PES-CORVO





Features for PI-485



- Model Number: PSNFP14A0
- Power. Connected with the Indoor Units
 - 1 for Each Indoor Unit

- * Provided with a case to be installed on the exterior.
- * A PI-485 is not required when used with Multi V systems.

Features for CO₂ Sensor



PES-CORVO

The PES-CORVO is especially designed to work in conjunction with LG Energy Recovery Ventilators (ERVs). Real-time $\rm CO_2$ levels are detected and displayed on the sensor's LCD. The PES=CORVO then sends the data to the LG ERV via the hard-wired connection cable coupled with the supplied 33-foot extension cable. LG ERVs, using stand-alone embedded logic, will respond to $\rm CO_2$ changes in the surrounding ambient air by applying demand control ventilation when its fan is set to Auto mode. Energy efficiency is increased, and indoor air quality can be improved when ventilation air is introduced to the monitored space only as necessary.

STANDARD FEATURES:

- \bullet Constant monitoring of CO_2 levels
- LCD display readout
- LED sensor light indications for troubleshooting
- Direct attachment through a 33-foot cable
- Connects to CN_CC02 socket on ERV control board

NOTE: Available functions/features may differ based on the connected system. Due to our policy of innovation, some specifications may be changed without notification.

Compatibility



ARVU053ZEA2 / ARVU063ZEA2

• Compatible with ERV (Energy Recovery Ventilator):

ARVU053ZEA2 ARVU063ZEA2 ARVU093ZFA2 ARVU123ZFA2



ARVU093ZFA2 / ARVU123ZFA2

MECHANICAL ACCESSORIES

Lineup

	INDOOR		AIR TECHNOLOGIES
Ceiling Mount	ted Cassette	Ceiling Concealed Duct	7
Auto Elevation Grille	Cassette Cover	Suction Grille PBSGB30	Air Cleaner ZFBXD201A ZFBXD402A
PTEGM0 Cassette Panel	PTDCM PTDCQ	/ PBSGB40 Canvas	Air Cleaner Media
4-Way Cassette PT-UQC / PT-UMC1	Plasma Kit	PBSC30 / PBSC40 Other	ZFLT1301A ZFLT1302A
4-Way True 2x2 Cassette PT-QCHW0	PTPKM0 PTPKQ0 Ventilation Kit	Aux Heater Relay Kit PRARH* PRARS*	Return Air Grill ZGRLRA01A ZGRLRA02A
4-Way Black Cassette PT-UMC1B 2-Way Cassette PT-HLC1 1-Way Cassette PT-UUC1	PTVK410 PTVK420 PTVK430	HSD Filter Box ZFBXB*01A	Return Air Plenum ZPLMV201A ZPLMV402A
PT-UTC	OUTDOOR		MULTI V
Air Guide	Hail Guard	Low Ambient Baffle Kit	Heat Recovery Unit
			There are a second
PRAGX3S0	ZHGDKA01A ZHGDKA04A	ZLABKA01A ZLABKA03A	PRHR022A PRHR032A PRHR042A
Air Guide		Wind Baffle	
		BE	
PRAGX2S0		ZLABKA04A	

HEAT RECOVERY UNIT

PRHR022A PRHR032A PRHR042A







PRHR022A (2-branch Unit)

PRHR032A (3-branch Unit)

PRHR042A (4-branch Unit)

Features

- Max. 32 indoor units can be connected (Max eight indoor units per branch)
- Easy installation with auto pipe detect
- Delivers maximum efficiency using the subcooling cycle within the HR Unit

Models Applied

- MULTI V IV Heat Recovery
- MULTI V WATER IV Heat Recovery

Specifications

	Specification	Unit	PRHR022A	PRHR032A	PRHR042A
Number of Indoor Unit Port	s ²		2	3	4
Power Input		Watts	26	40	40
Max Port Capacity	Each Port	Btu/h	54,000	54,000	54,000
	Sum of Ports	Btu/h	192,000	192,000	192,000
Electrical	Power Supply	(V/Hz/Ø	208-230/60/1	208-230/60/1	208-230/60/1
	Rated Amps	А	0.08	0.12	0.16
Piping	Port Liquid Line	in	3/8	3/8	3/8
	Port Vapor Line	in	5/8	5/8	5/8
	System Liquid Line	in	3/8	1/2	5/8
	System Vapor Line High	in	3/4	7/8	7/8
	System Vapor Line Low	in	7/8	1-1/8	1-1/8
Sound Pressure Data	Cooling Mode	dB(A)	35.2	35.2	35.2
	Heating Mode	dB(A)	35.1	35.1	35.1
	Simultaneous	dB(A)	43.3	43.3	43.3
Weight	Net Unit Weight	lbs	40	45	49
	Shipping Weight	lbs	48	54	57

- 1. All refrigerant pipes require insulation.
- 2. Each port can allow up to eight indoor units with a maximum capacity of 48k Btu/h per port.
- 3. All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded and must comply with applicable local and national code
- 4. Kit components must be kept dry and free of debris before installation.
- $5. \ Must follow in stallation instructions in the applicable LG in stallation manual. \\$
- 6. Power wiring cable size must comply with the applicable local and national code.
- 7. This unit comes with a dry nitrogen charge.

ACCESSORIES

Indoor Accessories



















PTEGM0

PTDCM PTDCQ

PT-UQC PT-UMC1

PT-QCHW0

PT-UMC1B

PT-HLC1

PT-UUC1 PT-UTC

PTVK410

PTVK420



















PTVK430

PTPKM0 PTPKQ0

ZFLT1301A ZFLT1302A

PBSC30 PBSC40

PBSGB30 PBSGB40

PRARHO PRARH1 PRARS1

PSNFP14A0

 CO_2 Sensor

HSD Filter Box

Unit Type	Category	Model	Description	Used with
	Cassette Auto Elevation Kit	PTEGM0	Auto Elevation Grill Kit	TP, TN, TM
		PTDCM		TP, TN, TM
	Cassette Cover	PTDCQ	Decorative Cover for 4-Way Ceiling Cassette	TQ, TR
		PT-UTC	1-Way Ceiling Cassette Panel	тт
		PT-UUC1	1-Way Ceiling Cassette Panel	TU
		PT-HLC1	2-Way Ceiling Cassette Panel	TL
	Cassette Panel	PT-UQC	4-Way Ceiling Cassette Panel	TQ, TR
Ceiling Cassettes		PT-QCHW0	4-Way Ceiling Cassette Panel, True 2x2	TQ, TR
		PT-UMC1	4-Way Ceiling Cassette Panel	TP, TN, TM
		PT-UMC1B	4-Way Ceiling Cassette Panel, Black	TP, TN, TM
		PTVK410	Ventilation Air Intake Spacer for 4-Way Ceiling Cassette (Requires PTVK420)	TP, TN, TM
	Cassette Ventilation	PTVK420	6" Ø Ventilation Air Connection Flange for 4-Way Ceiling Cassette	TP, TN, TM
		PTVK430	3" Ø Ventilation Air Connection Flange for 4-Way Ceiling Cassette	TQ, TR, TP, TN, TM
		PTPKM0	4-Way Ceiling Cassette Plasma Kit (3x3)	TP, TN, TM
	Plasma Kit	PTPKQ0	4-Way Ceiling Cassette Plasma Kit (2x2)	TQ, TR
		ZFBXB801A	High-Capacity Filter Box	B8
	HSD Filter Box	ZFBXBG01A	High-Capacity Filter Box	BG
		ZFBXBH01A	High-Capacity Filter Box	BH
		ZFBXBR01A	High-Capacity Filter Box	BR
High Static	Air Cleaner	ZFBXD201A	DYNAMIC V8-2VL Low-Profile Air Cleaner	BG, BH, BR, B8
Ducted		ZFBXD402A	DYNAMIC V8-4VL Low-Profile Air Cleaner	BG, BH, BR, B8
	Air Cleaner Media	ZFLT1301A	Air Cleaner Media 4-Pack	BG, BH, BR, B8
		ZFLT1302A	Air Cleaner Media 24-Pack	BG, BH, BR, B8
	Return Air Plenum	ZPLMV201A	2VL Return Air Plenum	BG, BH, BR, B8
	Return Air Pienum	ZPLMV401A	4VL Return Air Plenum	BG, BH, BR, B8
	LSD Bottom Return Canvas	PBSC30	Return Air Canvas (Requires PBSGB30 Grille)	B3
CD Datte - Date -		PBSC40	Return Air Canvas (Requires PBSGB40 Grille)	B4
LSD Bottom Return	LSD Bottom Return Grille	PBSGC30	Return Air Grille (Requires PBSC30 Canvas)	B3
		PBSGC40	Return Air Grille (Requires PBSC40 Canvas)	B4
		ANEH053B1	5kw Electric Heat Kit	NJ, NK
Annel Alli	111/2-	ANEH103B2	10kw Electric Heat Kit	NJ (243, 303, 363), NK
/ertical AHU	Heat Kit	ANEH153B2	15kw Electric Heat Kit	NK
		ANEH203B2	20kw Electric Heat Kit	NK
		PRARH0	Auxiliary Heat Kit for Gen 2 Cassettes, Ducted, and Convertible units	VJ, VE
Auxiliary Heat Kit		PRARH1	Auxiliary Heat Kit for Gen 4 Cassettes, Ducted, and Convertible units	B3, B4, B8, BG, BH, BR, L1, L2, L3, TL, TM, TN, TP, TQ, TR, TT, TU
		PRARS1	Auxiliary Heat Kit for Wall Mounted Units	

ACCESSORIES

Outdoor Accessories

Air Guide





PRAGX3S0



PRAGX2S0



ZHGDKA01A ZHGDKA04A

Low Ambient Baffle Kit



ZLABKA01A ZLABKA03A

Wind Baffle



ZLABKA04A

Туре	Model	Description	Used with
4: 6:1	PRAGX2S0	Air Guide (one required per frame)	Multi V IV 6 Ton Chassis
Air Guide	PRAGX3S0	Air Guide (two required per frame)	Multi V IV 8 to 14 Ton Chassis
	ZHGDKA01A	Hail Guards Kit	Multi V IV 6 Ton Chassis
Hail Guard	ZHGDKA04A	Hail Guards Kit	Multi V IV 8 to 14 Ton Chassis
Low Ambient Baffle Kit	ZLABKA01A	Low Ambient Baffle Kit (requires PRVC2)	Multi V IV 6 Ton Chassis
	ZLABKA03A	Low Ambient Baffle Kit (requires PRVC2)	Multi V IV 8 to 14 Ton Chassis
Wind Baffle	ZLABKA04A	Low Ambient Baffle Kit (two required per unit)	Multi V S















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