



CONTROL SOLUTION & ACCESSORIES 2016

CONTROL SOLUTION & ACCESSORIES 2016



LG HVAC
SOLUTION

LG Electronics

<http://www.lg.com>
<http://partner.lge.com>

Copyright © 2016 LG Electronics. All rights reserved.

Distributed by

EUROPE SALES INFRASTRUCTURE



GLOBAL PRODUCTION SITE



LG Electronics products sold in Europe are 'Made in Korea' (Except for ceiling suspended unit).

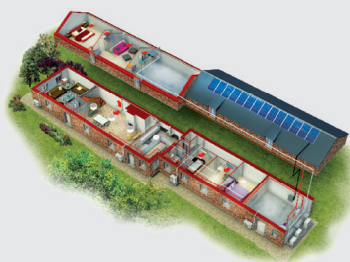
TOTAL HVAC SOLUTION PROVIDER

Ever since manufacturing Korea's first home grown air conditioner in 1968, LG has remained at the forefront of air conditioning innovation. LG has been the world's top selling manufacturer of residential air conditioning solutions. In 2008, LG achieved to sell the total of more than 100 million air conditioners. Building on its success and technological leadership in the residential air conditioning sector, LG has moved into system air conditioning as well.

The company's range of high performance system air conditioning products provides effective temperature control to large-scale buildings and facilities. Overtime, LG has evolved into the total HVAC and energy solution provider, investing in new technologies adding chillers, VRF systems and BMS (building management system) into its comprehensive product portfolio. Along with a wide range of innovative solutions, LG delivers unrivalled customer service.

The company produces top-notch air conditioning professionals at its academies, of which there are nearly 80 worldwide. These centers of excellence provide workshops and training programs that offer valuable hands-on experience. LG also provides useful tools for HVAC system engineers and installers, including its time saving LG Air Conditioner Technical Solution (LATS) software. Additionally, LG operates several state-of-the-art R&D facilities all across the planet.

One such facility is the Energy Lab, a purpose-built R&D and testing center in northern France. Helping to keep the company ahead of the competition, the scientists and engineers at the Energy Lab study the effects of different environmental conditions on LG's products. This in-depth research and analysis enables LG to tailor its solutions to the specific environmental demands of each individual market. Combining the best technologies with the best ideas, LG's high quality products are now enjoyed by customers in over 100 countries.



LG Energy Labs in Europe















Committed to to meet all requirements regarding energy efficiency and environmental demands, LG has been running Energy Lab. LG Energy Lab is an innovative site dedicated to commercial and residential products in heating, ventilation and the latest energy efficient air conditioning solutions. Also as a showcase, LG Energy Lab is equipped with complete monitoring and control systems. The performance of all products will be tracked and analyzed by a team of Research and Development engineers based in France, Finland and Korea, ensuring efficiency and reliability during the whole product lifecycle.



European Air Conditioning Distribution Center


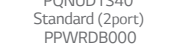

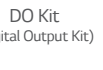





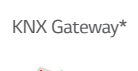
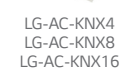

































LG's European Air Conditioning Distribution Center is located in Oosterhout, the Netherlands. Supplying and delivering products all over Europe, this distribution hub has contributed to smooth and rapid delivery, direct shipping for smaller orders and delivery tailored to air conditioners. The hub tries to manage inventory efficiency by taking advantage of LG EU's established inventory pool.

LG HVAC CONTROL

Individual Control				Centralized Control		
Wired Remote Controller			Wireless Remote Controller	Indoor Unit ~ 32	Indoor Unit ~ 128	Indoor Unit ~ 8,192
Premium	Standard	Simple		AC Ez	AC Smart IV	AC Manager IV
 PREMTA000 PREMTA000A PREMTA000B	 PREMTB001	 PQRCVCL0QW	 PQWRHQFDB	 PQCSZ250S0	 PACS4B000	 PACM4B000
				Indoor Unit ~ 64	Indoor Unit ~ 256	
	 PREMTB001	 PQRCVCL0Q	Wi-Fi Controller*  LG-IR-WF-1	NEW AC Ez Touch  PACEZA000	ACP IV  PACP4B000	
		 PQRCHA0QW (Simple for Hotel)				
		 PQRCHA0Q (Simple for Hotel)				

* This product is provided by INTESIS.

LINE-UP

Centralized Control			Other Integration Device			
System Integration Device			Indoor Unit		Outdoor Unit	AHU Kit
Facility Integrator	Gateway for Protocol	PI-485	Dry Contact	Control Accessory		
 PDI (Power Distribution Indicator)  Premium (8port) PQNUD1S40 Standard (2port) PPWRDB000  ACS IO Module (Input / Output Module)  PEXPMB000  DO Kit (Digital Output Kit)  PQNFP00T0	 ACP BACnet  PQNFB17C0  ACP Lonworks  PLNWKB000  KNX Gateway*  LG-AC-KNX4 LG-AC-KNX8 LG-AC-KNX16 LG-AC-KNX64	 PI-485  For SINGLE / MULTI / THERMA V PMNFP14A1  For Indoor Unit (Air-Conditioner, ERV) PHNFP14A0	 Simple Dry Contact PDRYCB000  2 Points Dry Contact (For Setback) PDRYCB400  Dry Contact for Thermostat PDRYCB300  For Modbus PDRYCB500	 Group Control Wire  PZCWRCG3  Remote Temperature Sensor  PQRSTA0  Zone Controller  4 Zones by thermostat ABZCA	 IO Module (Input / Output Module)  Demand controller for MULTI V IV PVDSMN000  Low Ambient Kit  For MULTI V IV PRVC2  Dry Contact for Demand Control  Demand controller for MULTI V III PQDSBCDVM0  Variable Water Flow Control kit  For MULTI V WATER IV PWFCN000  Cool / Heat Selector  PRDSBM	 Communication Kit  Return / Room Air Control PUCKA0 (For SINGLE SPLIT) PRCKA1 (For MULTI V)  Supply Air Control by DDC PUDCA0 (For SINGLE SPLIT) PRDCA0 (For MULTI V)  Control kit  PRCKD21E (~ 4 ODU's) PRCKD41E (~ 8 ODU's)  EEV Kit (Electronic Expansion Valve)  PRLK048A0 (~ 10HP) PRLK096A0 (~ 20HP)  TXV Kit (Thermal Expansion Valve)  PATX13A0E (8 ~ 16HP) PATX20A0E (18 ~ 26HP) PATX25A0E (28 ~ 36 HP) PATX35A0E (38 ~ 46 HP) PATX50A0E (48~56 HP)

INDIVIDUAL CONTROL



INDIVIDUAL CONTROL

08 Premium Wired Remote Controller

10 Standard Wired Remote Controller

11 Simple Wired Remote Controller

12 Wireless Remote Controller

13 Wi-Fi Controller

Remote Controller Line Up

Model Name	<div></div> <div>PREMTA000 PREMTA000A PREMTA000B</div>	<div></div> <div>PREMTB001 PREMTB01</div>	<div></div> <div>PQRCVCLQW PQRCVCLQ PQRCHCAQW PQRCHCAQ</div>	<div></div> <div>PQWRHQFDB</div>	<div></div> <div>LG-IR-WF-1¹⁾</div>
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	Weekly	-	Sleep, On / Off	-
Child Lock	●	●	●	-	-
Electric Failure Compensation	●	●	●*	-	-
Time Display	●	●	-	●	-
Filter Sign	●	●	-	-	-
Energy Management**	●	-	-	-	-
Home Leave	2 Set Points Control	-	-	-	-

* PQRCHCAQW / PQRCHCAQ doesn't offer this function
** Centralized control (PACS4B000 / PACP4B000 / PQNFB17C0 / PLNWKB000) and PDI (PQNUD1540 / PPWRDB000) should be installed for this function
1) User and product registration are necessary to use functions with internet accessibility. Providing functions can be changed according to the manufacturer.

PREMIUM WIRED REMOTE CONTROLLER

5 inch full touch screen with a premium design

PREMTA000 ¹⁾
PREMTA000A ²⁾
PREMTA000B ³⁾

1) English / Portuguese / Spanish / French
2) English / Italian / Russian / Chinese
3) English / German / Polish / Czech



Features ⁴⁾

• Self-Management for Energy Saving

- Time limit operation / Power consumption monitoring
- Weekly / Monthly / Yearly trend tracking
- Target alert alarm
- Temperature range setting

• Improved Scheduling

- Timer / Daily / Weekly / Yearly / Holiday

• 2 Set Points Control ⁵⁾

• Design with user's Convenience

- Full touch / Intuitive GUI (Graphic User Interface)
- Main display simple mode / Touch buzzer

Model Name	PREMTA000 / PREMTA000A / PREMTA000B
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	● (Remain time + 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	●
Indoor Temperature Display	●
Wireless Remote Controller Receiver	●****
Display	5 Inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	137 x 121 x 16.5
Black Light for Screen Saver	●
Home Leave	2 Set Points Control

* It might not be indicated or operated at the partial product

** This function is available for certain indoor unit type

*** Centralized control (PACS4B000 / PACP4B000 / PQNFB17C0 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function

**** For ceiling type duct

4) Indoor unit should have functions requested by the controller

5) 2 set points control works normally with MULTI V Heat Recovery and Single Heat Pump. But in case of MULTI V Heat Pump, It is not working in 2 set points control of indoor unit

Energy Management

• Self Energy Management

After it gathers information about usage time or electricity usage*, offer periodical history data to users as visual information. By using various setting mode (operation hour / electricity usage etc.), you can manage on your own.



* Centralized control (PACS4B000 / PACP4B000 / PQNFB17C0 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function



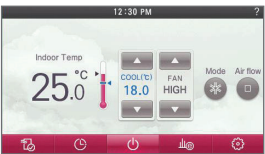
• Weekly / Monthly / Yearly Trend & Target Setting Control

Premium remote controller provides convenient trend & target graph for different period.

User Friendly Design

• Intuitive UI & GUI Design

It is more easy to use and control various functions.



Standard Mode



Simple Mode

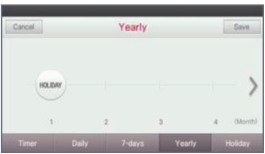
• Display Configuration

Users can use of five buttons as shortcuts for frequently used features.

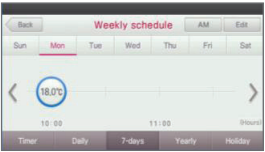
Enhanced Schedule Function

• Yearly / Weekly Schedule Function

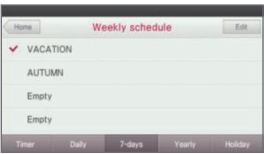
If you set the schedule all at once, you will be able to effectively manage for various lengths of time. It provides 5 kinds of reservation functions. (Timer, Daily, Weekly, Yearly, Holiday)



Yearly Schedule



Weekly Schedule



Weekly Schedule Pattern

• Easy Pattern Schedule

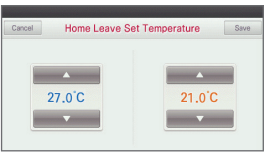
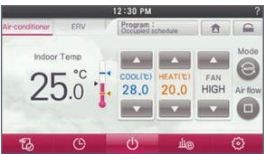
It is possible to embody various schedules as pattern setting.

* Available to save up to a maximum of 20 error histories, 20 holiday reservations and 5 daily event on week

2 Set Points Control

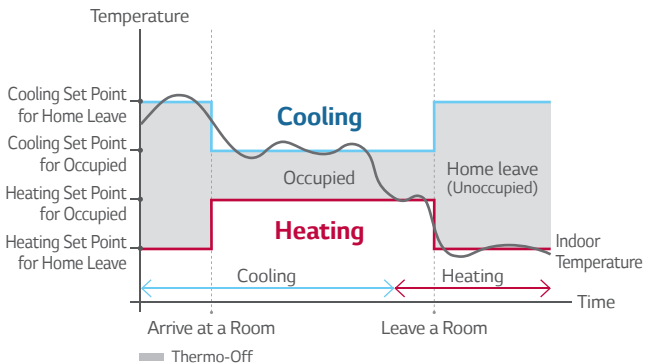
• 2 Set Points Control

Ambient indoor temperature is guaranteed by setting two-point temperature for cooling and heating. New premium remote automatically changes from heating to cooling (and vice versa) depending on temperature.



• Home Leave

Changeable setting for occupied / unoccupied status



STANDARD WIRED REMOTE CONTROLLER

Providing easy control of one or a group of indoor units with various functions

Standard II

PREMTB001 (White)
PREMTBB01 (Black)



Features¹⁾

Model Name	PREMTB001 / PREMTBB01
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 / Holiday
Time Display	•
Electric Failure Compensation	•
Child Lock	•
Filter Sign	• (Remain time + Alarm)
Operation Status LED	•
Indoor Temperature Display	•
Wireless Remote Controller Receiver	•*
Size (W x H x D, mm)	120 x 121 x 16
Blacklight	•
Power Consumption Monitoring	•**
Check Model Information	•

* For Ceiling Concealed Duct type
** Centralized control (PACS4B000 / PACP4B000 / PQNFB17C0 / PLNWKB000) and PDI (PQNUD1540 / PPWRDB000) should be installed for this function
1) Indoor unit should have functions requested by the controller

SIMPLE WIRED REMOTE CONTROLLER

A simple way to control office or hotel systems in a compact design

Simple

PQRCVCLOQW (White)
PQRCVCLOQ (Black)

Simple for Hotel

PQRCHCA0QW (White)
PQRCHCA0Q (Black)



Simple

Simple for Hotel

Features¹⁾

Model Name	PQRCVCLOQW / PQRCVCLOQ	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	•*	•*
Size (W x H x D, mm)	70 x 121 x 16	70 x 121 x 16
Blacklight	•	•

* For Ceiling Concealed Duct type
1) Indoor unit should have functions requested by the controller

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
Size (W x H x D, mm)	51.4 x 153 x 26

WI-FI CONTROLLER¹⁾

LG-IR-WF-1



Models Applied

- Connectable with the indoor unit having IR receiver
- Power supply includes EU-UK-US-AU heads
- On / Off status and mode indicated by LED light
- Additional internet service has to be available and registration user account in Intesis Home cloud to use Wi-fi controller is mandatory
- Intesis Home cloud app is available for android phone or iOS phone
- Control and monitor
- Easy to install : Wall or desktop mounted
- Automatic firmware Updates*

* Internet access is necessary

Model Name	LG-IR-WF-1
Start / Stop Operation	•
Operation Mode	Cool / Heat / Auto / Fan / Dry
Set Point	•
Ambient Temperature	•
Fan Speed	•

Specifications

Model Name	LG-IR-WF-1
Enclosure	ABS (V-0, 5VB) 2,1 mm thickness PC (V-2) 1mm thickness
Dimensions (mm)	81 × 78 × 28
Weight (g)	76
Color	White
Power Supply	5VDC 0,2 A NEC Class 2 or Limited Power Source (LPS) and SELV Rated Power supply
Mounting	Wall
LED Indicators	1 × Device Status
Operating Temperature	From 0°C to 40°C
Operating Humidity	<93% HR, no Condensation
Stock Humidity	<93% HR, no Condensation
RoHS Conformity	Compliant with RoHS Directive (2002 / 95 / CE)
Certifications	Compliant with RoHS Directive (2002 / 95 / CE) CE Conformity to EMC Directive (2004 / 108 / EC) and Low-voltage Directive (2006 / 95 / EC) EN 60950-1 / EN 301489-1 v1.8.1 / EN 300328

Overview

Case 1. Connection with Indoor Units with IR Receiver



1) This product is provided by INTESIS.


Case 2. Connection with Duct Type Indoor Units




CENTRALIZED CONTROL

CENTRALIZED CONTROL


16 AC Ez Touch




18 AC Smart IV




20 AC Ez








21 ACP IV



22 AC Manager IV



Central Controller Line Up

Model Name					
	NEW PACEZA000	PQCSZ250S0	PACS4B000	PACP4B000	PACM4B000*
Maximum Number of Units	64	32	128	256	8,192
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	•	-	•	•	•
Web Access ¹⁾	Web	-	Web	Web	Remote Access by Client S/W
Auto Changeover / Setback	•	-	•	•	•
Power Consumption Monitoring (with PDI)	•	-	•	•	•
Interlock Control	-	-	•	•	•
Virtual Group Control	-	-	•	•	•
Emergency Alarm Display	•	-	•	•	•
ACS IO Module Interlocking	-	-	•	•	•

* S/W program
1) Assignment of public IP address is required to access central controller through internet.

AC EZ TOUCH

Smart management with 5 inch touch screen for small site

NEW
PACEZA000

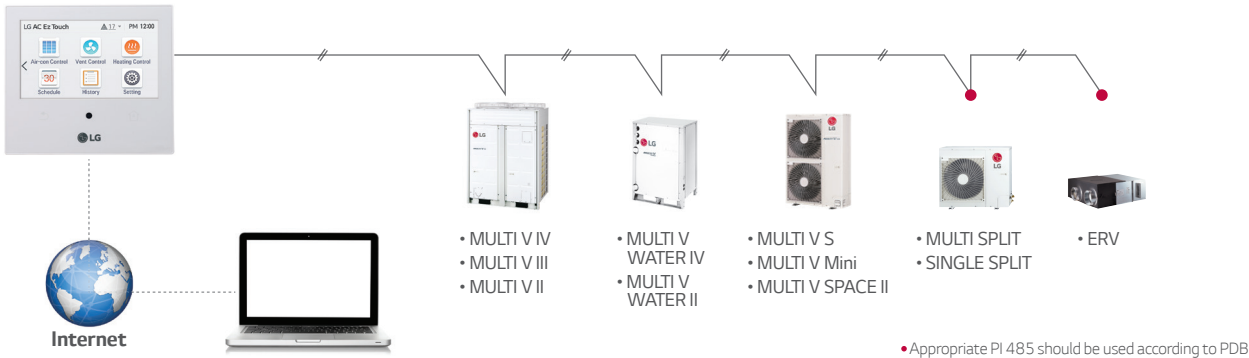


Features

Model Name	PACEZA000
Maximum Number of Indoor Units	64
Individual / Group Control (On & Off, Mode, Set Point, Fan Speed)	•
Individual Controller Lock	• (Temperature / Mode / Fan / All)
Error Check	Self diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Slave Mode (Interlocking with Higher Level Controller)	•
Schedule	Daily / Weekly / Monthly / Yearly / Exception day
Operation History	•
Temperature Limit	•
Web Access ¹⁾	•
Auto Changeover / Setback	•
Power Consumption Monitoring (with PDI)	•
Emergency Alarm Display	•
External IO Port No.	DI 1
Compatible Model	MULTI V / ERV / ERV DX / THERMA V / HYDRO KIT
Size (W x H x D, mm)	137 x 25 x 121

1) Assignment of public IP address is required to access central controller through internet please contact regional office to have detailed Internet connection configuration

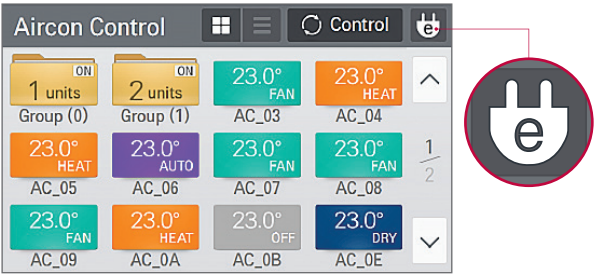
Installation Scene



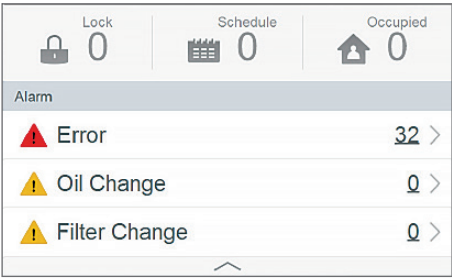
Features



- **Web Access**
Users can control each space efficiently through web access.
(Web access : Network configuration is locally necessary)



- **Energy Mode**
When using energy mode function, operation mode changes from cooling to fan or heating to off mode by force.
(It is available only air conditioner and 'on' mode indoor unit)



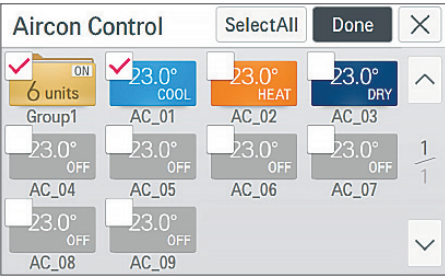
- **Alarm Indicator**
It works when there are some errors or it's time to change the oil or filter. Users can respond immediately according to alarm indicator therefore HVAC system is monitored consistently.

Energy		
<	2016. 2. 8 ~ 2016. 3. 19	>
Today Week Month		
Name	Usage(kWh)	Accumulated(kWh)
Group1	110	3021
Group2	150	6186
Group3	130	4267
Group4	120	7614

- **Energy Statistics (with PQNUD1S40 or PPWRDB000)**
Statistics of operational status (time, power consumption) are provided to help make intelligent system operation decisions.

Schedule_Month						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

- **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.

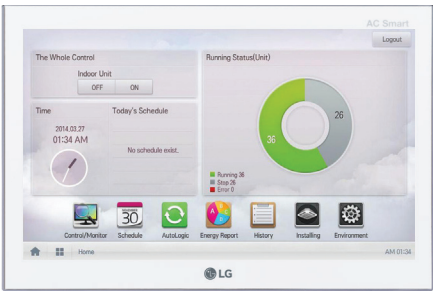


- **Group / Individual Control**
According to the situation, it can be controlled by group or each indoor unit. It is useful to monitor or control for the best fit of request.

AC SMART IV

Large 10.2 inch touch screen with intuitive GUI (Graphic User Interface) allows easy control

PACS4B000

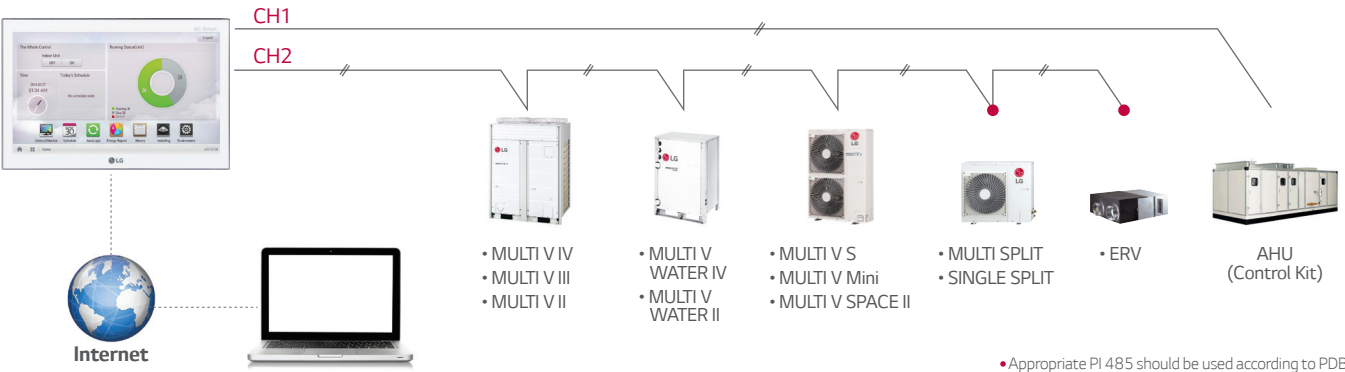


Features

Model Name	PACS4B000
Maximum Number of Indoor Units	128
Individual / Group Control (On & Off, Mode, Set Point, Fan Speed)	•
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	•
Web Access ¹⁾	•
Auto Changeover / Setback	•
Power Consumption Monitoring (with PDI)	•
Interlock Control	•
Virtual Group Control	•
Emergency Alarm Display	•
ACS IO Module Interlocking	•
External IO Port No.	DI 2 / DO 2
Interfaceable Products	MULTI V / ERV / ERV DX / THERMA V / HYDRO KIT / AHU (Control Kit)

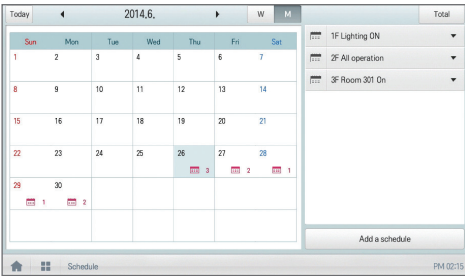
1) Assignment of public IP address is required to access central controller through internet please contact regional office to have detailed Internet connection configuration

Installation Scene

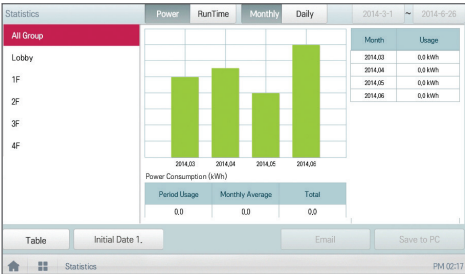


• Appropriate PI 485 should be used according to PDB

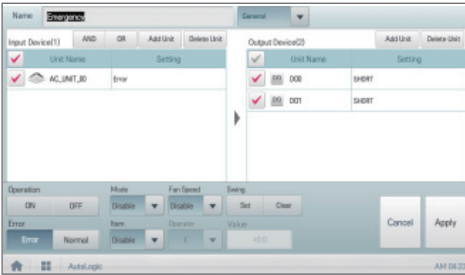
Features



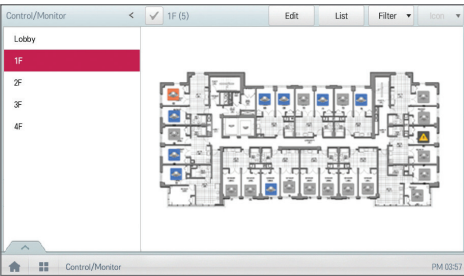
- **Schedule**
Schedule control allows user to set the events in advance to maximize system performance. Also, by blocking unnecessary operation, it prevents a waste of energy.



- **Energy Statistics (with PQNUD1S40 or PPWRDB000)**
Statistics of operational status (time, power consumption) are provided to help make intelligent system operation decisions.



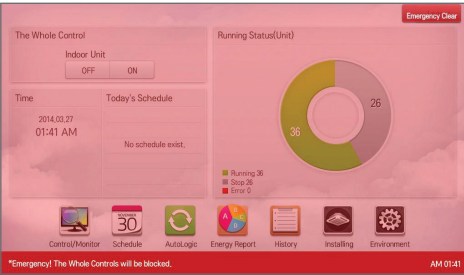
- **Interlocking**
Allows interlocked operation of devices or between digital inputs and outputs on the AC Smart IV.



- **Visual Navigation**
Current operation status on floor plan is checked at one view.

Report	Total	Control	Error	2014.03.26	2014.06.26
✓	2014-06-26	14:15:50	Room 303	COOL/18.0 C/OFF by NONE	
✓	2014-06-26	14:15:43	Room 302	COOL/18.0 C/OFF by NONE	
✓	2014-06-26	14:15:43	Room 303	COOL/18.0 C/OFF by NONE	
✓	2014-06-26	14:15:42	Room 101	COOL/18.0 C/OFF by NONE	
✓	2014-06-26	14:15:42	Room 105	COOL/18.0 C/OFF by NONE	
✓	2014-06-26	14:14:03	Room 303	COOL/18.0 C/ON by U_system_admin	
✓	2014-06-26	14:14:00	Room 302	COOL/18.0 C/ON by U_system_admin	
✓	2014-06-26	14:13:56	Room 303	COOL/18.0 C/ON by U_system_admin	

- **Operation Report**
Report including control status and other information is provided so that operation history can be reviewed easily. Data can be sent by E-mail or stored on USB or external HDD.



- **Emergency Display**
Red alert takes up the whole display upon any urgency situation and all other control signals are blocked to prevent any possible accident.

AC EZ

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

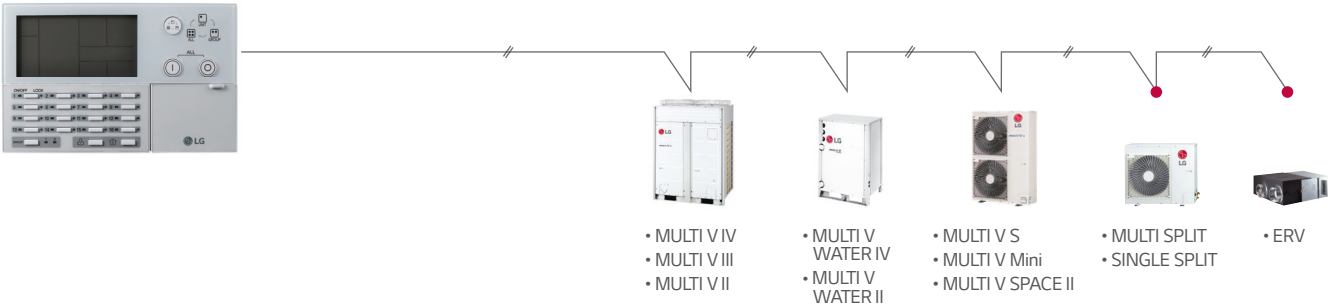
PQCSZ250S0



Features

Model Name	PQCSZ250S0
Maximum Number of Indoor Units	32
Individual / Group Control (On & Off, Mode, Set Point, Fan Speed)	•
Ventilation Control	•
Individual Controller Lock	•
Error Check	LED / LCD Display
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Master / Slave Setting	•
Display	Operation Status, Set Temperature, Room Temperature, Schedule
Size (W x H x D, mm)	190 x 120 x 17
Power	DC 12V

Installation Scene



• Appropriate PI 485 should be used according to PDB

ACP IV

ACP IV can be integrated to the web system that allows user can access the control system online anytime, anywhere without access to PC or specific application

PACP4B000

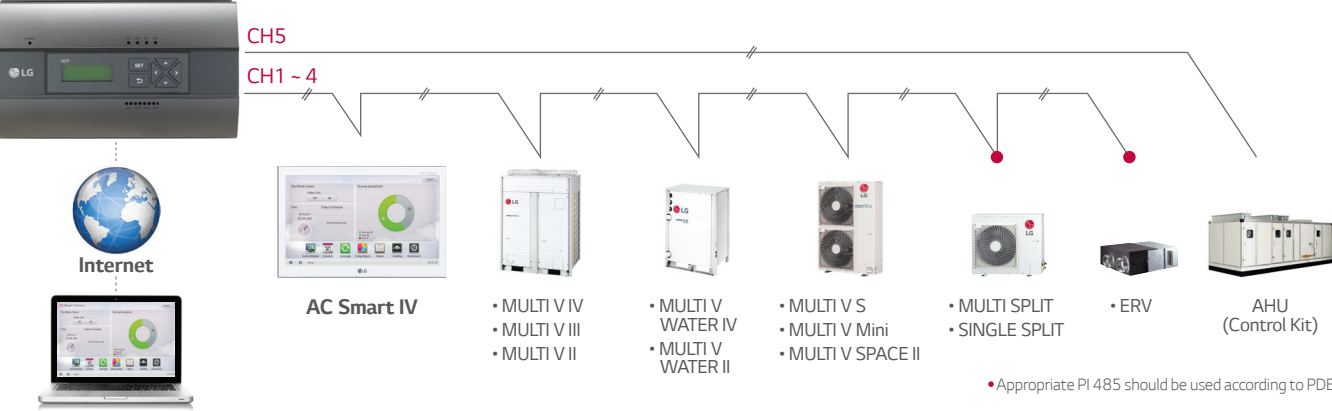


Features

Model Name	PACP4B000
Maximum Number of Indoor Units	256
Individual / Group Control (On & Off, Mode, Set Point, Fan Speed)	•
Individual Controller Lock	• (Temperature / Mode / Fan / All)
Error Check	Self Diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Repetition / Exception day
Operation History	•
Visual Navigation	•
Operation Time Limit	•
Temperature Limit	•
Web Access ¹⁾	•
Auto Changeover / Setback	•
Power Consumption Monitoring (with PDI)	•
Interlock Control	•
Virtual Group Control	•
Emergency Alarm Display	•
ACS IO Module Interlocking	•
External IO Port No.	DI 10 / DO 4
Interfaceable Products	MULTI V / ERV / ERV DX / THERMA V / HYDRO KIT / AHU (Control Kit)

1) Assignment of public IP address is required to access central controller through internet.

Installation Scene



• Appropriate PI 485 should be used according to PDB

AC MANAGER IV

Up to 32 ACP IV can be connected so that 8,192 indoor units can be controlled and monitored

PACM4B000

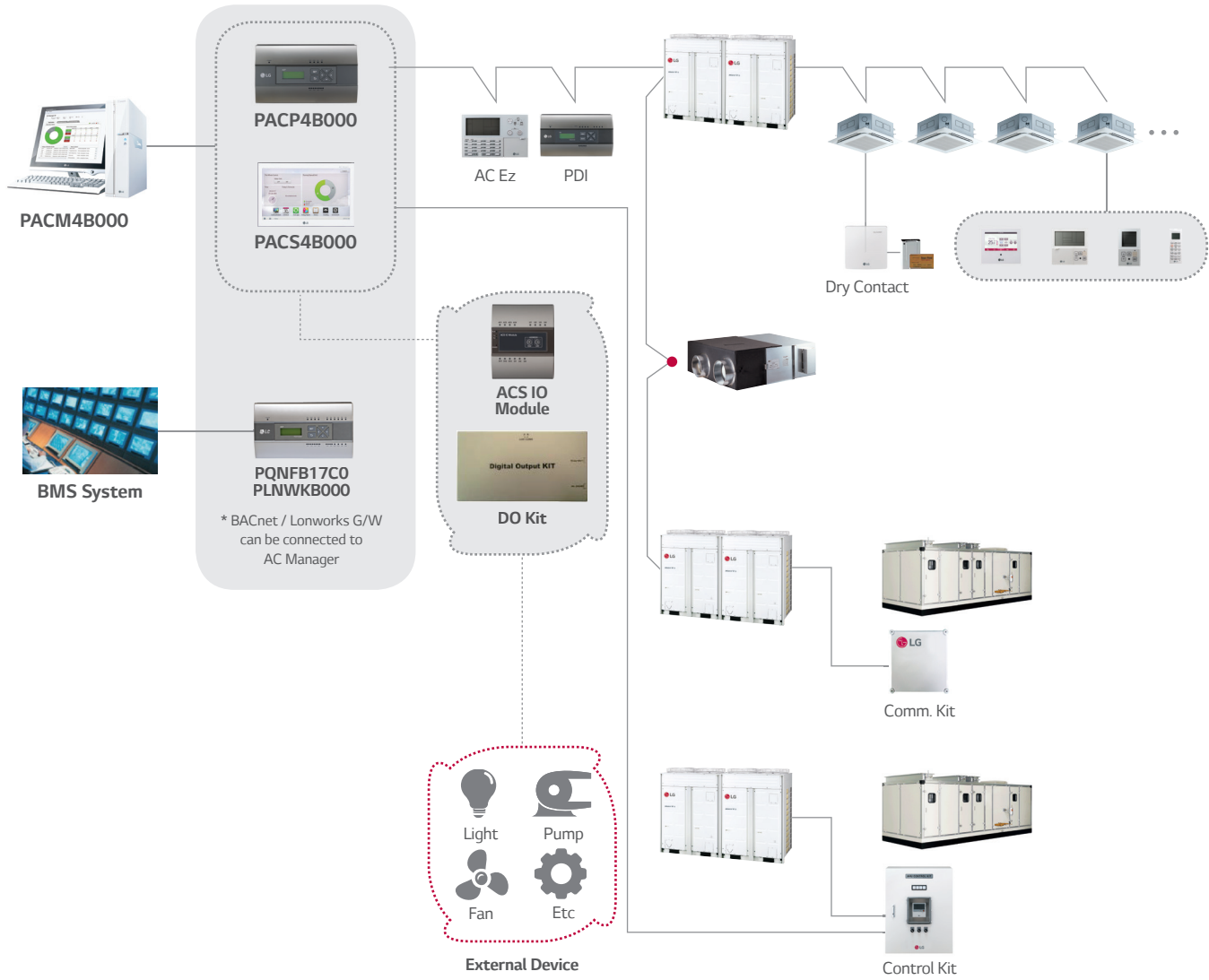


Features

Model Name	PACM4B000
Maximum Number of Indoor Units	8,192 (supports 32 ACP IV)
Individual / Group Control (On & Off, Mode, Set Point, Fan Speed)	•
Individual Controller Lock	• (Temperature / Mode / Fan / All)
Error Check	Self diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Repetition / Exception day
Operation History	•
Visual Navigation	•
Operation Time Limit	•
Temperature Limit	•
Web Access ¹⁾	•
Auto Changeover / Setback	•
Power Consumption Monitoring (with PDI)	•
Interlock Control	•
Virtual Group Control	•
Emergency Alarm Display	•
ACS IO Module Interlocking	•





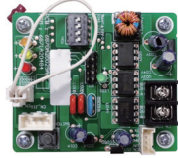
1) Assignment of public IP address is required to access central controller through internet.

Solution Overview



* Combination: we recommend you to connect separated wattmeter for Indoor units and Outdoor units to have correct power distribution value
• Appropriate PI 48S should be used according to PDB

SYSTEM INTEGRATION DEVICE

Facility Integrator	Gateway for Protocol	PI-485
<p>PDI (Power Distribution Indicator)</p>  <p>Premium (8 port) PQN1S40 Standard (2 port) PPWRDB000</p>	<p>ACP BACnet (Modbus)</p>  <p>PQNFB17C0</p>	 <p>For Outdoor Unit (SINGLE / MULTI / THERMA V) PMNFP14A1</p>
<p>ACS IO Module</p>  <p>PEXPMB000</p>	<p>ACP Lonworks</p>  <p>PLNWKB000</p>	 <p>For Indoor Unit (Air-Conditioner, ERV) PHNFP14A0</p>
<p>DO Kit (Digital Output Kit)</p>  <p>PQNFP00T0</p>	<p>KNX Gateway</p>  <p>LG-AC-KNX4 LG-AC-KNX8 LG-AC-KNX16 LG-AC-KNX64</p>	 <p>For Indoor Unit (Air-Conditioner, ERV) PSNFP14A0</p>

PDIPOWER DISTRIBUTION INDICATOR

PDI shows power consumption of up to 128 indoor units

Premium

PQN1S40 (8 port)

Standard

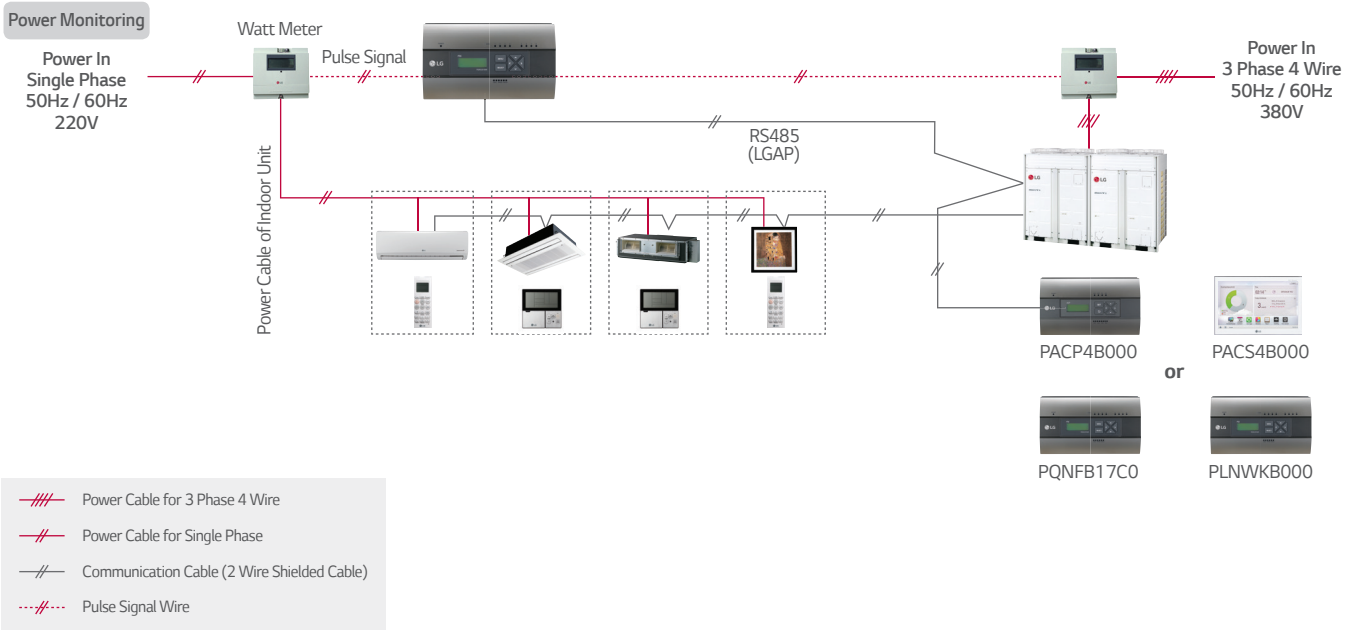
PPWRDB000 (2 port)



Features

- Data is backed up so that correct consumption can be checked when power outage occurred
- Connector can be separated for convenient installation
- Linkable with pulse type power meter

Installation Scene



* This value could be different with measured power consumption by power meter
Combination : we recommend you to connect separated watt meter for Indoor units and Outdoor units to have correct power distribution value

ACS IO MODULE

The module can be connected with PACS4B000 or PACP4B000 if additional control points are needed not only DI / DO but also AI / AO port. These central controller can control 3rd party device as pump, security, lighting and so on through DI / DO and AI / AO

PEXPMB000



Features

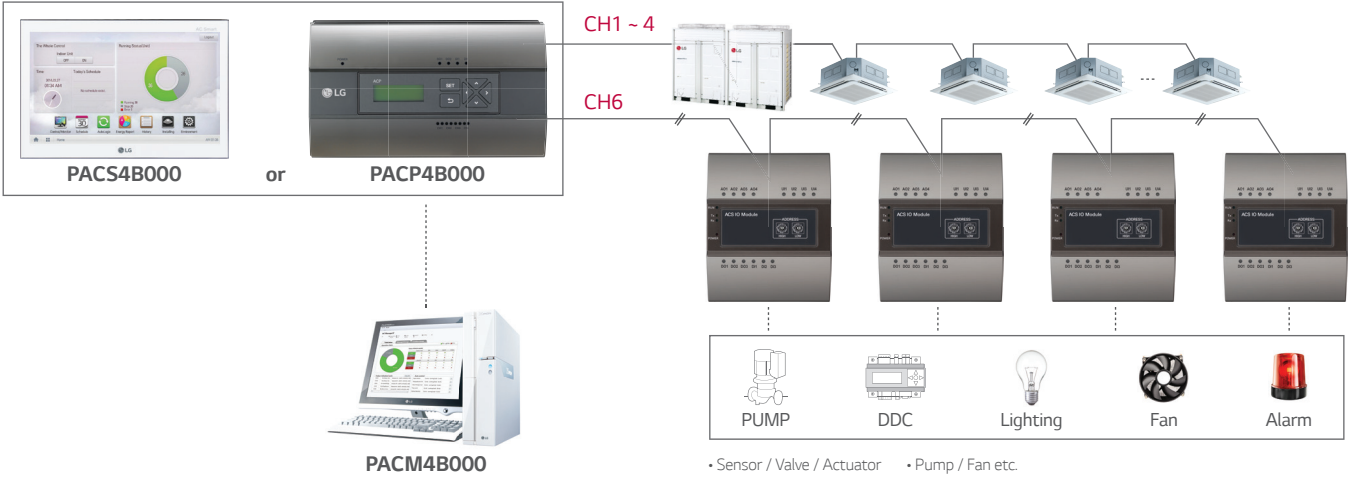
Model Name		PEXPMB000
Linkable Products		PACS4B000 PACP4B000 PACM4B000
Communication	RS-485	1
I/O	Digital Input	3
	Digital Output	3
	Universal Input	4
	Analog Output	4

Interface Type		Min.	Max.
Analog Input	NTC 10k	0.68k Ω	177k Ω
	PT 1000	803 Ω	1,573 Ω
	Ni 1000	871.7 Ω	1,675.2 Ω
	DC (Voltage)	0V	10V
	DC (Current)	0mA	20mA
Analog Output	-	0V	10V
Digital Input	Binary Input (Dry Contact)	-	-
Digital Output	Normal open	-	30VAC / 30VDC, 2A

	PACS4B000	PACP4B000	PACM4B000
Number of Indoor Units	64 ~ 128	128 ~ 256	8,192
Max. I/O Points	130	224	1,260
Maximum Number of Node	9	16	-

* Maximum number of indoor units may be reduced by increasing the number of I/O points.

Installation Scene



* DI : Digital Input, DO : Digital Output, UI : Universal Input, AO : Analog Output / Please contact our regional office to have connectable relay specification for analog output

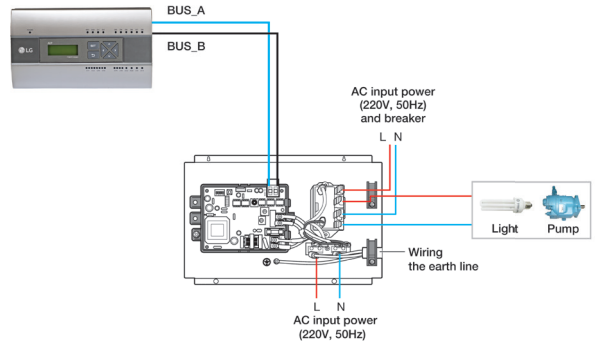
DO KIT DIGITAL OUTPUT KIT

Connected between centralized controllers of LG and external devices, which can switch On / Off devices such as light, pump, motor, etc

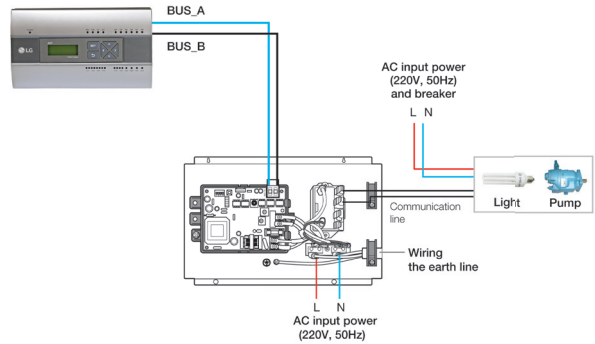
PQNFP00T0



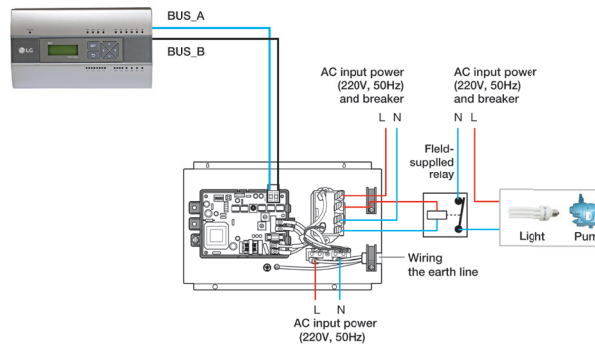
Features



- When the product input is less than equal to 25A (The device is controlled by turning On / Off the power supply line of the product.)
 1. Pull out the power or shut down the breaker.
 2. Connect the power line from the breaker to the additional relay cable.
 3. Connect the device power line to the additional relay cable.
 4. Finish the connected area with the insulating tape.



- When the product input is greater than equal to 25A (The device is controlled by turning On / Off the Indoor / Outdoor communication line.)
 1. Pull out the power or shut down the breaker.
 2. Cut the communication line.
 3. Connect the cut communication line to the additional relay cable.
 4. Finish the connected area with the insulating tape.



- When the product input is greater than or equal to 25A (The device is controlled by turning On / Off the power supply line of the product through a field-supplied relay)
 1. Pull out the power or shut down the breaker.
 2. Connect the power line from the breaker to the additional relay cable.
 3. Connect the field-supply relay power line to the additional relay cable.
 4. Connect the device power line to the field-supply relay.
 5. Finish the connected area with the insulating tape.

* Please contact our regional office to have connectable relay specification for digital output

ACP BACNET GATEWAY

PQNFB17C0



* Please refer PDRYCB500 for Modbus RTU

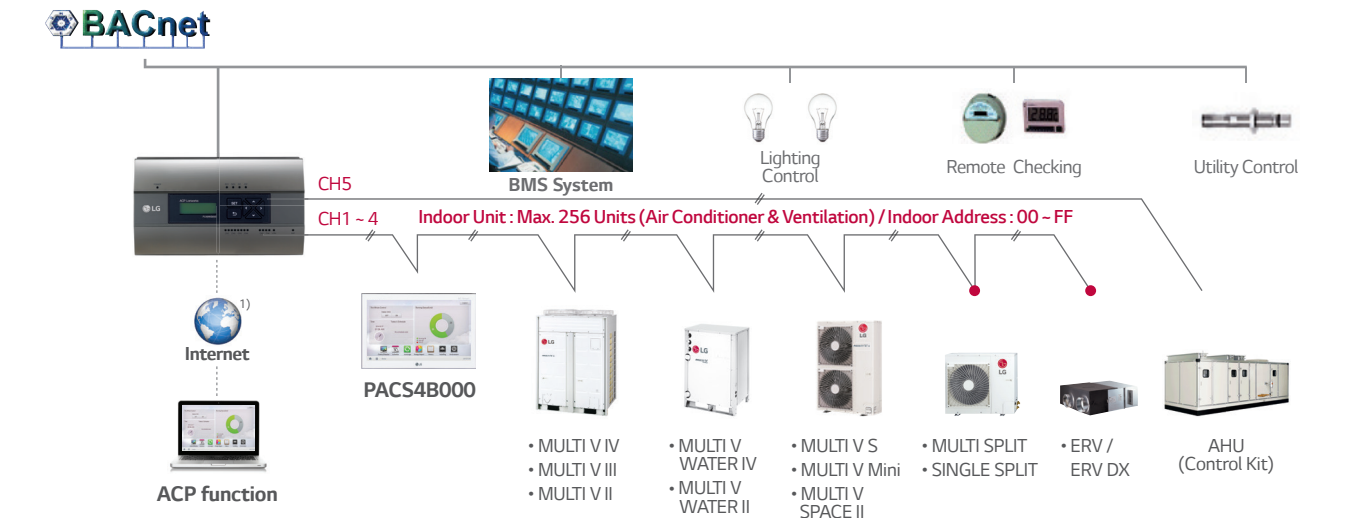
Features

- **Process Ability**
 - EHP Type : 256 units (Indoor / ERV / ERV DX / Hydro Kit / THERMA V)
 - AHU Control kit : Maximum 16 units
- **Self installation verification function using internet (Web Server Included)**
 - Setting gateway
 - Diagnosis of communication status on LG Air-conditioner network
- **Modbus TCP Protocol Support**
- **BTL Certified (B-ASC)**
- **It offers a variety of functions as ACP which allows the customer to efficiently control various types of equipment from the customer's own PC.**

* In case of using Modbus, the compatibility is different from BACnet. Refer to manual in detail.

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 Setting
Set Temperature Setting	Set Temperature Status
-	Current Space Temperature Status
-	Error Status
User Mode Setting (for only ERV)	User Mode Status (for only ERV)
-	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 (ERV DX only)	Air Conditioner Operation Mode Status (ERV DX only)
AC On / Off Command (ERV DX only)	Air Conditioner On / Off Status (ERV DX only)

Installation Scene



1) Assignment of public IP address is required to access central controller through internet.

• Appropriate PI 485 should be used according to PDB

ACP LONWORKS GATEWAY

PLNWKB000

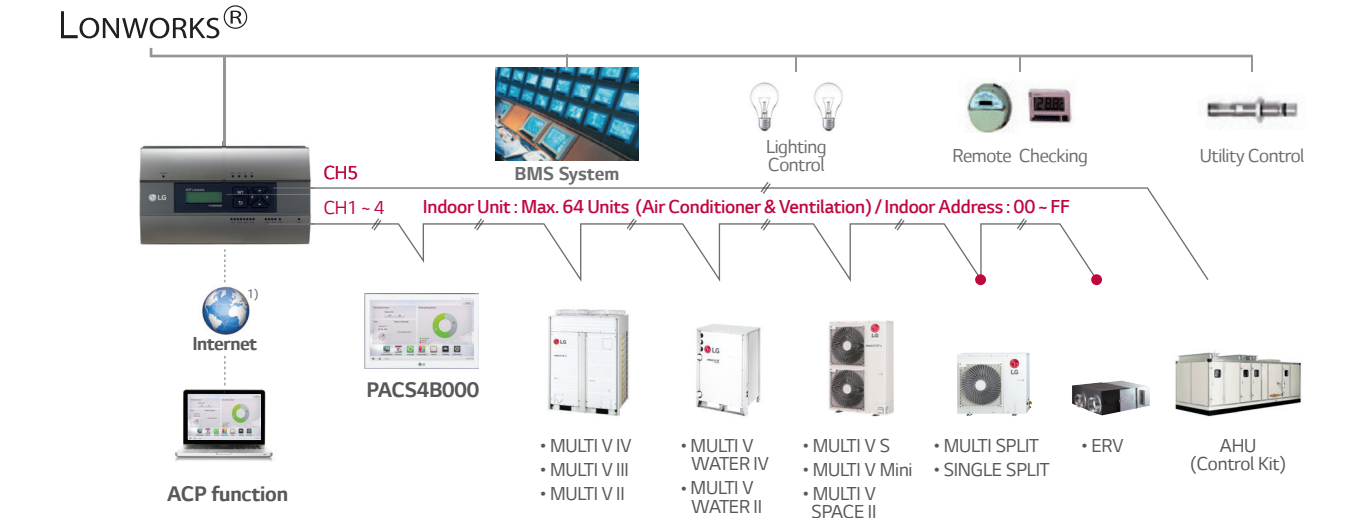


Features

- **Process Ability**
 - EHP Type : 64 units (Indoor / ERV / Hydro Kit / THERMA V)
 - AHU Control kit : Maximum 16 units
- **Connect to use Lonworks® protocol and LG air conditioner protocol.**
- **Self installation verification function using internet (Web Server Included)**
 - Setting gateway
 - Diagnosis of communication status on LG Air-conditioner network
- **It offers a variety of functions as ACP which allows the customer to efficiently control various types of equipment from the customer's own PC.**

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

Installation Scene



1) Assignment of public IP address is required to access central controller through internet.

• Appropriate PI 485 should be used according to PDB

KNX GATEWAY¹⁾

Specially designed to allow monitoring and bidirectional control of all the parameters and functionality of LG air conditioners from KNX installations

- LG-AC-KNX4
- LG-AC-KNX8
- LG-AC-KNX16
- LG-AC-KNX64

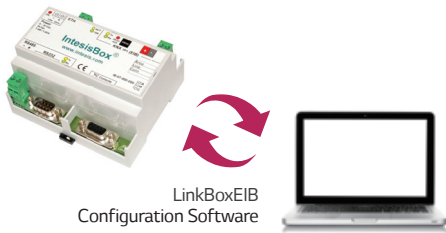


- Easy installation, direct connection to all outdoor units (Communication interface PMNFP14A1, when needed) and Heat recovering units (Communication interface PHNFP14A0, when needed) through the RS485 Bus.
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication objects can be accessed.
- Direct connection to KNX bus
- Independent management of communications
- Power supply : 9 to 24V DC or 24V AC
- Standard DIN-Rail 6 modules enclosure
- Maximum connection unit

Model Name	Max. Connection Units
LG-AC-KNX4	4
LG-AC-KNX8	8
LG-AC-KNX16	16
LG-AC-KNX64	64

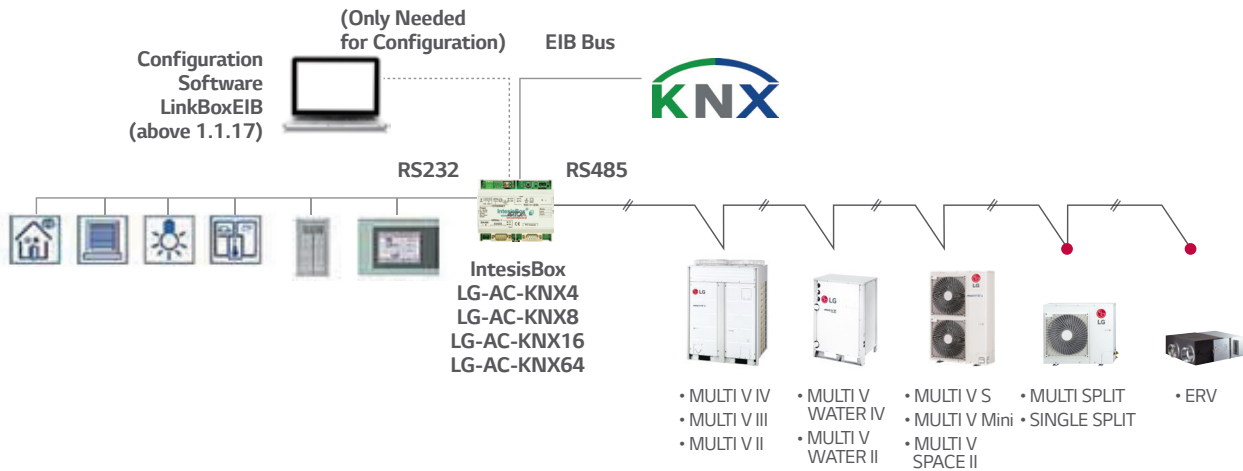
Link BoxEIB Configuration Software for IntesisBox® KNX Serious

Easy to use tool for the configuration of intesisBox, in a fast and effective way.
It offers the maximum integration possibilities with a minimal knowledge required on the system to be integrated.



- Only needed during configuration.
- One single tool for the configuration of the whole range of IntesisBox KNX series gateways.
- Supplied with IntesisBox with no additional cost.
- Configuration examples for all systems that can be integrated.
- Mapping table editable using excel, allowing a simple and fast association of KNX Group Addresses, exported from ETS, to IntesisBox's datapoints.
- Includes powerful and useful features for configuration, setup and troubleshooting.

Installation Scene



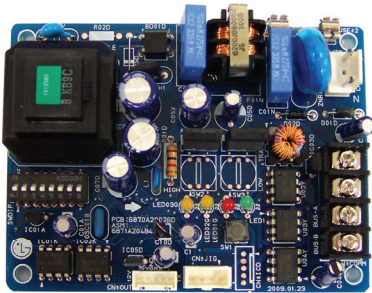
1) This product is provided by INTESIS.

• Appropriate PI 485 should be used according to PDB

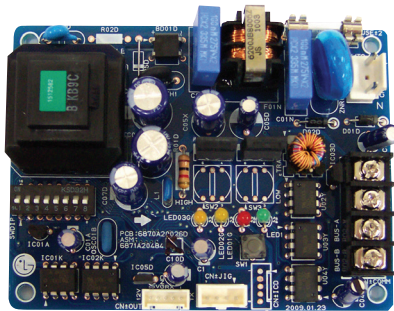
PI 485

PI 485 converts the air conditioner's protocol to the RS485 protocol for the central controller

- PMNFP14A1
- PHNFP14A0
- PSNFP14A0



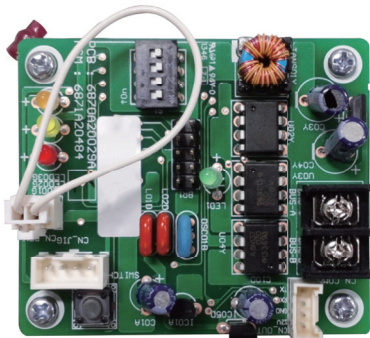
Features



- **Model Name : PMNFP14A1**
- **Power : Single Phase AC 220V 50/60Hz**
- **1 for Each Outdoor Unit (Max 64 Indoor Units)**
 - MULTI V MINI (ARUN40GS2A / ARUV40GS2A Only needs PI485)
 - SINGLE SPILT
 - MULTI SPLIT
 - THERMA V



- **Model Name : PHNFP14A0**
- **Power : Connected with the Indoor Units**
- **1 for Each Indoor Unit**
 - Indoor Unit (Air-Conditioner, ERV)





















- **Model Name : PSNFP14A0**
- **Power : Connected with the Indoor Units**
- **1 for Each Indoor Unit**
 - Indoor Unit (Air-Conditioner, ERV)

* Provided with a case to be installed on the exterior.

* MULTI V PLUS II & MULTI V III & MULTI V IV series do not require any other PI 485 since these series have PI 485 in its outdoor unit PCB.

OTHER INTEGRATION CONTROL

OTHER INTEGRATION DEVICE LINE-UP

Indoor Unit		Outdoor Unit	AHU Kit
Dry Contact	Control Accessory	IO Module (Input / Output Module)	Communication Kit
<div></div> <div>Simple Dry Contact PDRYCB000</div>	<div></div> <div>PZCWRCG3</div>	<div></div> <div>PVDSMN000</div>	<div></div> <div>PUCKA0 PRCKA1</div>
<div></div> <div>2 Points Dry Contact (For Setback) PDRYCB400</div>	<div></div> <div>PQRSTA0</div>	<div></div> <div>PRVC2</div>	<div></div> <div>PUDCA0 PRDCA0</div>
<div></div> <div>Dry Contact for Thermostat PDRYCB300</div>	<div></div> <div>ABZCA</div>	<div></div> <div>PQDSBCDVM0</div>	<div></div> <div>PRCKD21E PRCKD41E</div>
<div></div> <div>For Modbus PDRYCB500</div>		<div></div> <div>PWFCKN000</div>	<div></div> <div>PRLK048A0 / PRLK096A0</div>
		<div></div> <div>PRVCO</div>	<div></div> <div>PATX13A0E / PATX20A0E PATX25A0E / PATX35A0E PATX50A0E</div>
		<div></div> <div>PRDSBM</div>	

DRY CONTACT

Connection between an indoor unit and external devices to control various functions

PDRYCB000
PDRYCB400

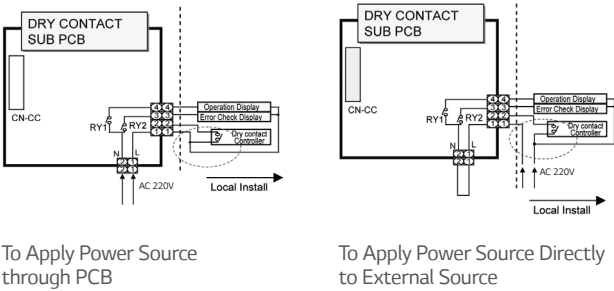


Features

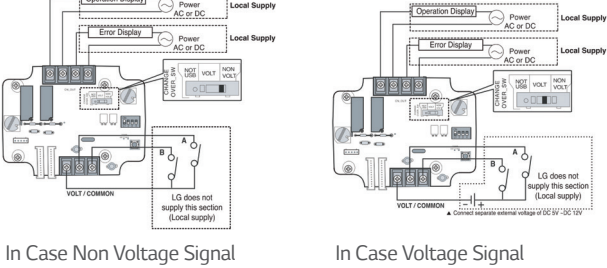
Model Name	PDRYCB000	PDRYCB400
Contact Point	1 Contact Point	2 Contact Point
Power Input	AC 220V	From Indoor Unit
Voltage / Non Voltage Input	-	•
On / Off Control	•	•
Rotary Switch 1	-	Operating Set Temperature Selection
Rotary Switch 2	-	Operating Logic Selection
Error Monitoring	•	•
Operation Monitoring	•	•
Size (W x H, mm)	120 x 120	120 x 120

* Refer to each models PDB for applicable models. * Maximum operation AC : 3A
* 4th generation indoor unit has 1 contact point function for On / Off control. But in case of using more function of Dry Contact besides On / Off control, Dry Contact is needed.

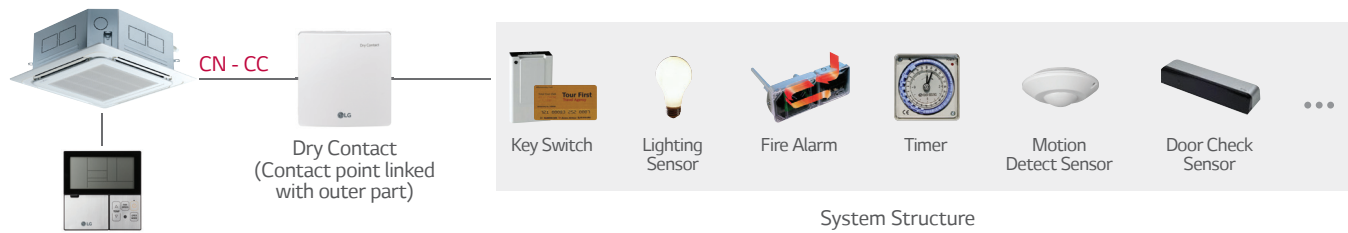
• PDRYCB000



• PDRYCB400



Installation Scene



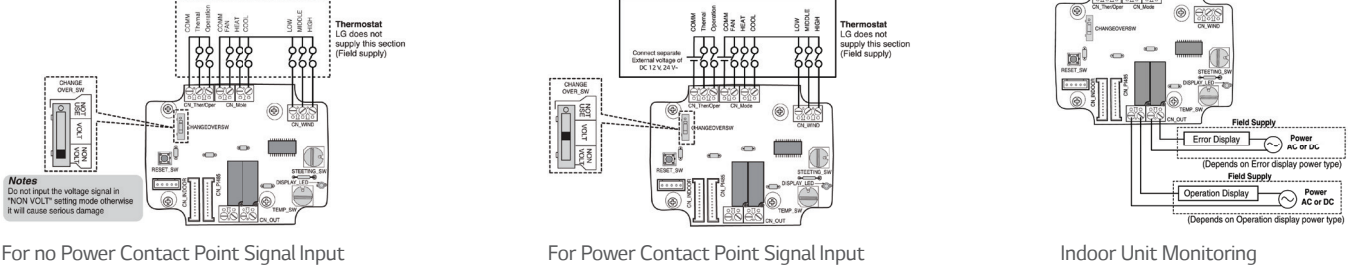
PDRYCB300



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
Size (W x H, mm)	120 x 120

• PDRYCB300



Installation Scene



* Please contact our regional office to have full compatible room controller list

DRY CONTACT

Connection between an indoor unit and external devices to control various functions

PDRYCB500



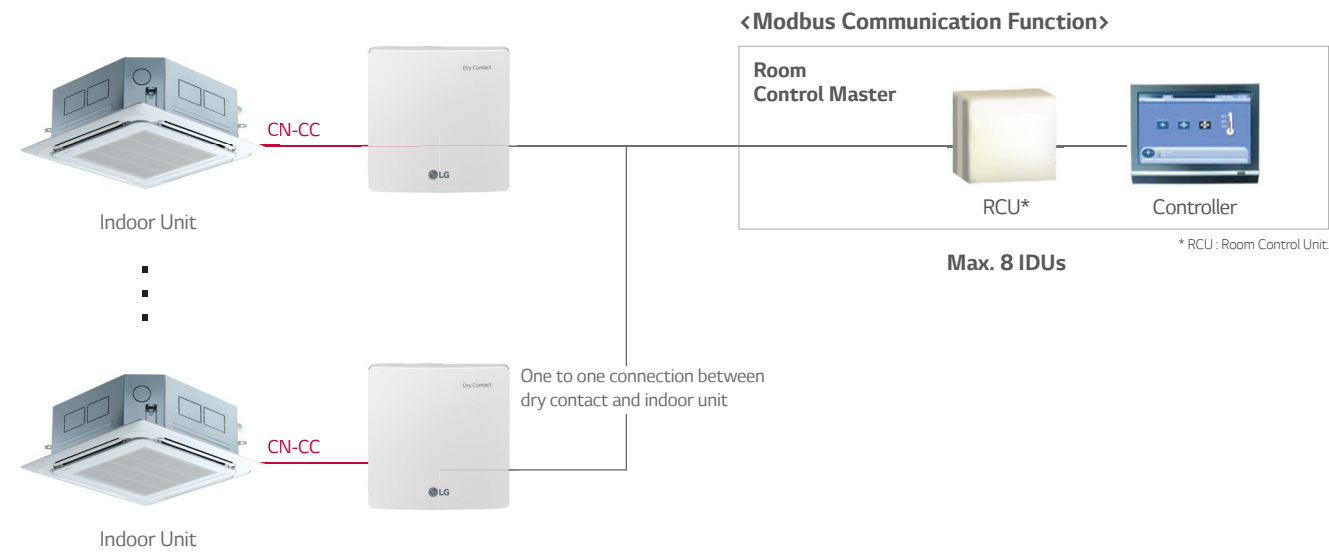
Features

- **Function**
 - MODBUS communicate with MODBUS master controller
 - MODBUS RTU slave / 2 wire RS485 / 9,600bps
 - MAX. 8 IDUs can be connected with one MODBUS master controller
 - Size (W x H x D) : 120mm x 120mm x 36.5mm

• Memory map

Register (hexa)	Name	Range	Notes
00001	Operation	0 ... 1	0 : Stop, 1 : Run
30003	Indoor Temperature	100 ... 390	Degrees C x 100
30100	Error Alarm	0 ... 1	0 : No Error, 1 : Error
40001	Set Run Mode	0 ... 4	0 : Cooling, 2 : Fan, 4 : Heating
40002	Set Temperature	180 ... 300	Degrees C x 100
40015	Set Fan Speed	0 ... 3	0 : Low, 1 : Middle, 2 : High, 3 : Auto

Installation Scene



* Please contact our regional office to have full compatible room controller list

GROUP CONTROL WIRE

Cables used to connect a wired remote controller up to 16 indoor units

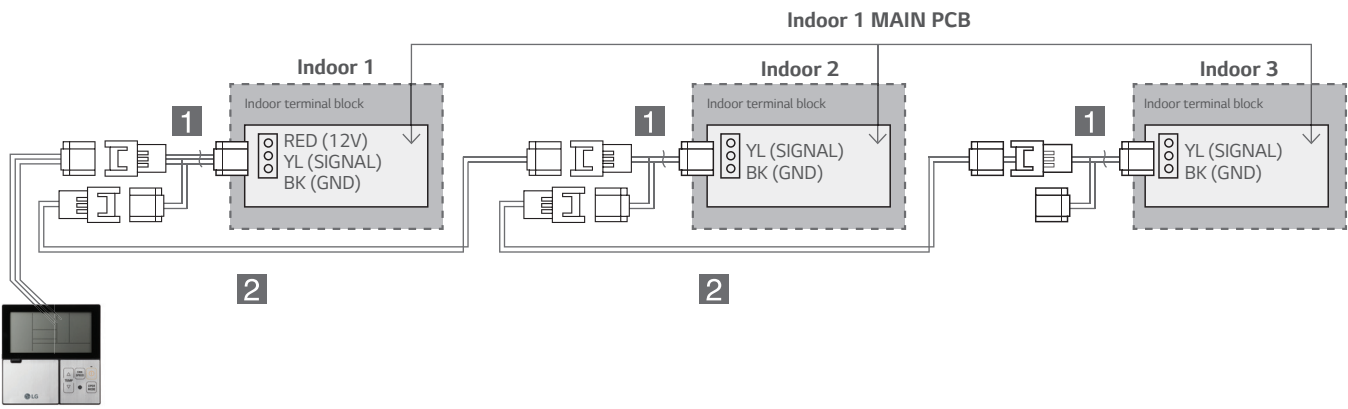
PZCWRCG3



Features

Model Name	PZCWRCG3
Y-type Cable	0.25m Length
Long Cable	9.6m Length

Installation Scene

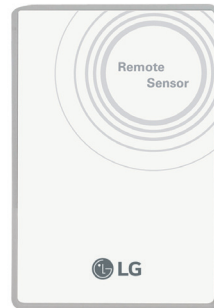


Note : 1 Y type Cable assembly for connecting indoor unit and low cable.
2 Long Cable assembly for connecting indoor to indoor.
- Please connect cable assembly Y type Cable with already connected indoor unit.

REMOTE TEMPERATURE SENSOR

Sensor for detecting the room temperature

PQRSTA0

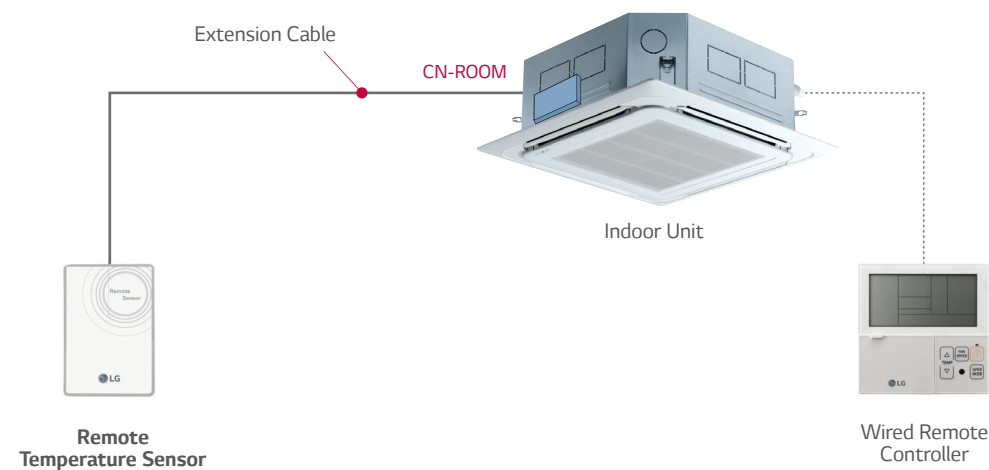


Features

- It can help to detect the exact room temperature instead of indoor unit's air temperature sensor
- Applied to Ceiling Mounted Cassette, Ceiling Concealed Duct, THERMA V and HYDRO KIT
- Extension cable (1.5m) is included

Installation Scene

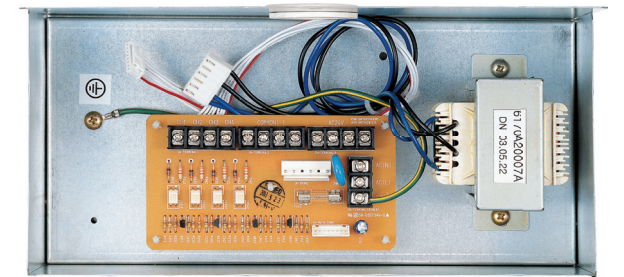
1. Wire to the control box in the indoor unit by removing the existing thermistor and connect the extension cable its place.
2. Cut the extension cable to the appropriate length and connect the screw terminal of the remote sensor.



ZONE CONTROLLER

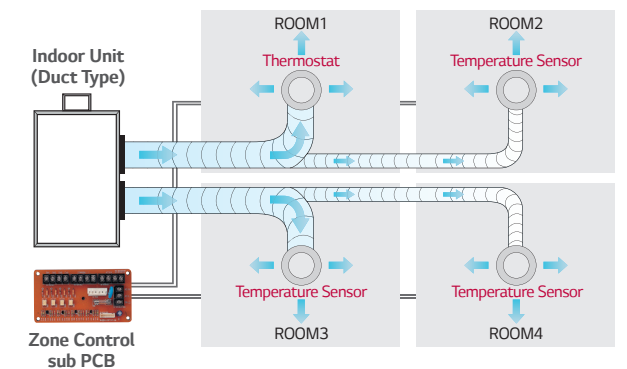
Controls air conditioning in up to 4 zones by external thermostat

ABZCA



Features

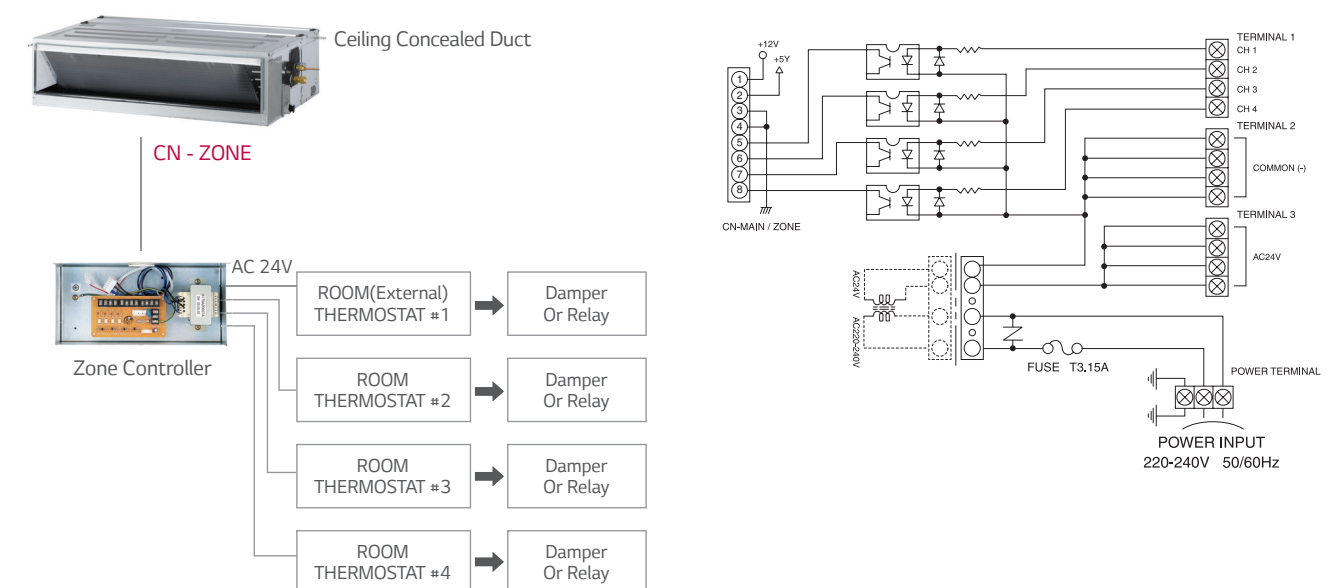
- Controls different zones (Up to 4 zones) by external thermostat (AC 24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation



Models Applied

- Ceiling Concealed Duct (refer to PDB for applicable models)

Wiring Diagram



IO MODULE

INPUT / OUTPUT
MODULE

Interface module between system air conditioner and external device

PVDSMN000



Features

- **Function**
 - Demand control
 - Low noise operation
 - Output outdoor or indoor unit operation status
 - Output error status
- **Description**
 - IO Module is communication interface module for connection between MULTI V IV and external IO (Input / Output Module) devices.

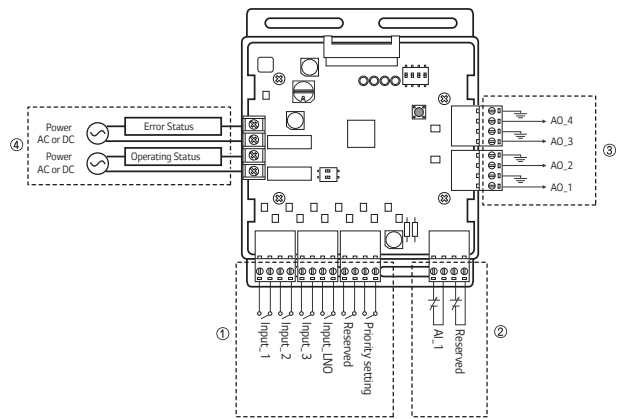
Note : IO Module is not compatible for MULTI V III

Models Applied

- MULTI V IV, MULTI V WATER IV, MULTI V S

Wiring

- 1) Dry Contact Input Part
 - Input_1, 2, 3 : Demand control by contact input (3 Step)
 - Input_LNO : Low Noise Operation
 - Priority Setting
 - Using priority setting contact signal the priority of command. (Capacity control for external command from DDC vs. peak control by LG Central controller.)
 - Close : Central controller has priority to external signal
 - Open : External signal has priority to central controller (Default setting)
- 2) Analog Input Part (AI : DC 0 ~ 10V)
 - AI_1 : Demand ontrl by analog input (10 Step)
- 3) Analog Output Part(AO : DC 0 ~ 10V, Max 20 mA)
 - Low ambient operation (AO_1 ~ 3)
 - IO Module communication error display
- 4) Digital Output (DO : 250VAC, Max 1A)
 - Output error status
 - Output operation status

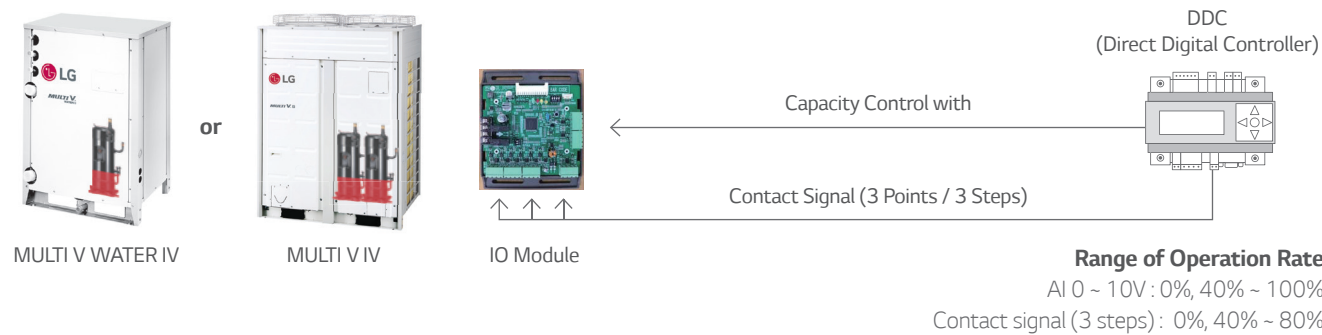


AI : Analog Input (DC0~10V)
AO : Analog Output (DC0~10V, Max 20mA)
Input_LNO : Low Noise Operation

Installation Scene

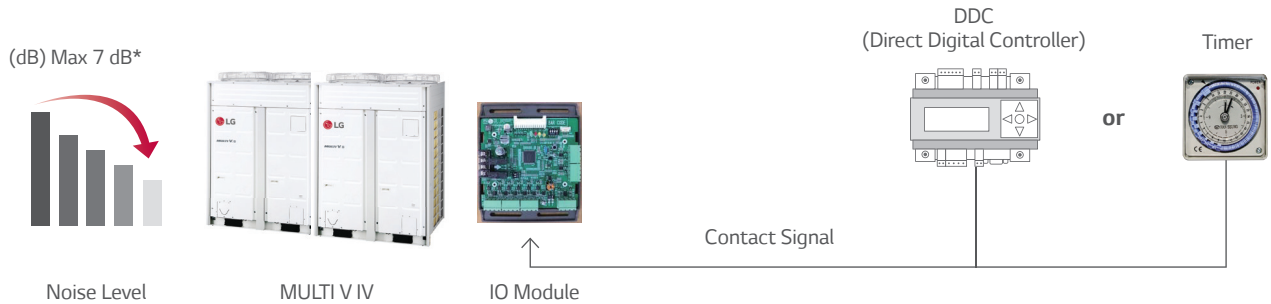
• Demand Control

Provides variable setting for demand control according to input method to reduce power consumption. This function supports 2 types of input signal : AI (0 ~ 10V, 10 Step) and contact signal (3 Step).



• Low Noise Operation

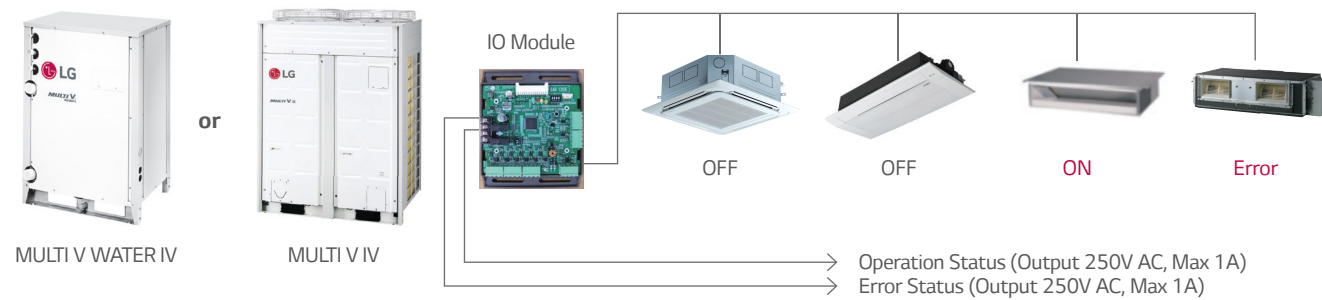
To reduce noise level , control outdoor unit's fan speed by dry contact input.



* 8 HP model, Sound power level can be changed by outdoor unit operation status and low noise operation input signal.

• Output Operation and Error Status

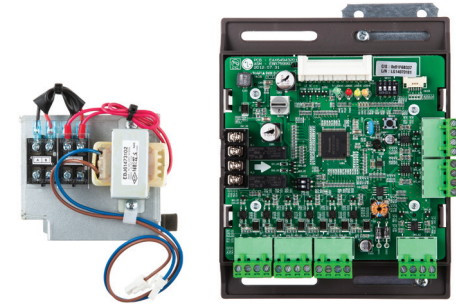
This function displays outdoor or indoor unit's operation and error status. Depends on dip switch setting, either outdoor or indoor unit operation status is reflected through output signal. Additionally, either outside or indoor unit has an error, IO Module display error signal by another replay.



LOW AMBIENT KIT

External integration module for cooling operation with -25°C low ambient temperature.

PRVC2



Features

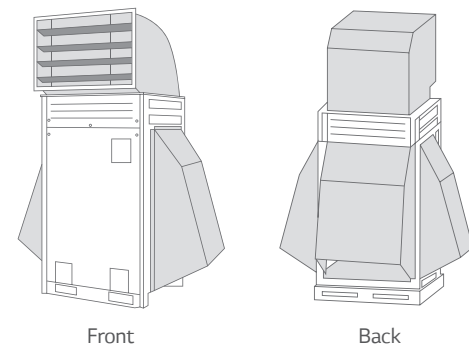
• Function

- 25°C Low ambient cooling operation by Low ambient kit and hood with damper (Analog output 0 ~ 10V)
- Demand control
- Low noise operation
- Output outdoor or indoor unit operation status (250VAC, Max 1A)
- Output error status (250VAC, Max 1A)

• Description

- Low ambient kit supports -25°C 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.
- External snow hood and air damper are required for this item.*
- Transformer and terminal block are included.

* Before apply this accessory, please contact regional sales office.



Front

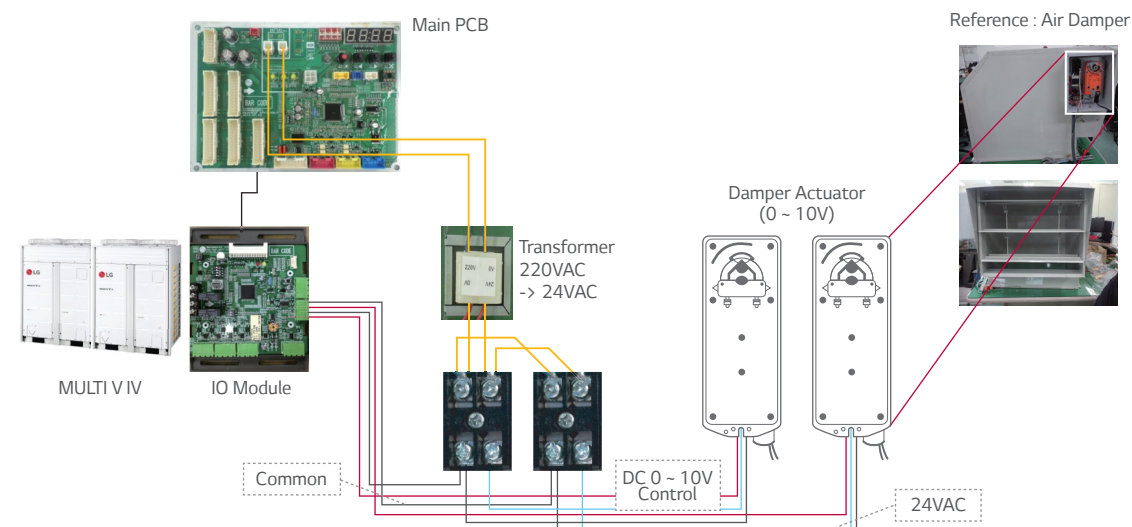
Back

Field Supply Item

Models Applied

- MULTI V IV

Installation Scene

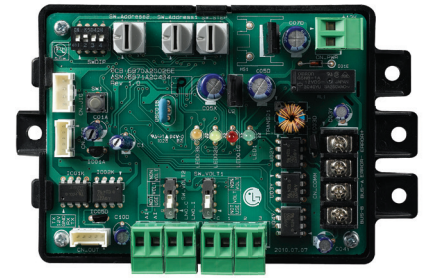


Note : The IO Module can control maximum three actuators. Please, review damper actuator's installation manual.

OUTDOOR UNIT DRY CONTACT

Dry contact for demand control

PQDSBCDVM0



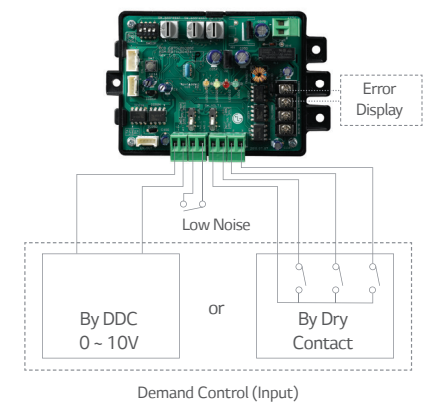
Features

• Function

- Demand control (3 Contact signal)
- Demand control (Co-work with DDC)
- Outdoor unit fan low speed control (Night low noise operation)
- All Off
- Error output (Display)

• Description

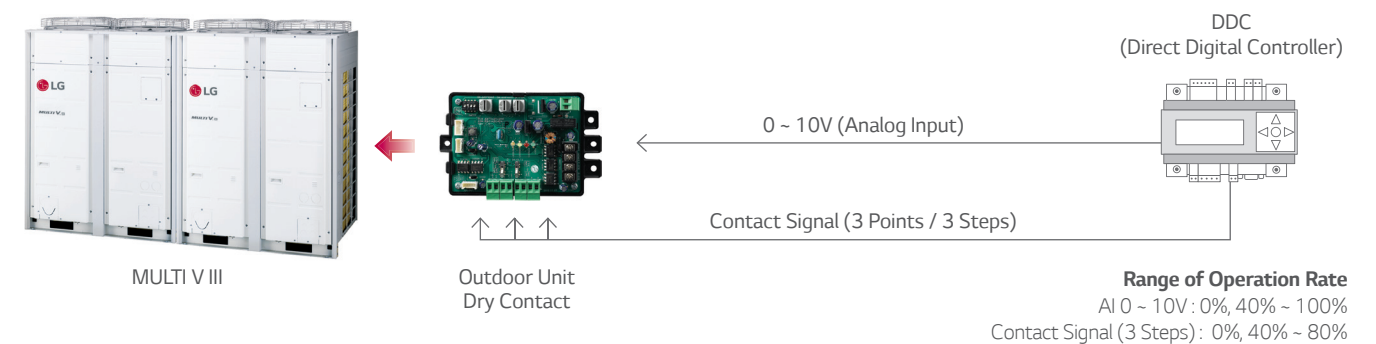
The product is especially designed for demand control.



Models Applied

- MULTI V S, MULTI V III, MULTI V MINI, MULTI V SPACE II, MULTI V WATER II, MULTI V WATER S

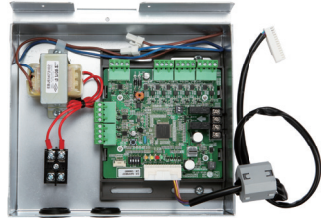
Installation Scene



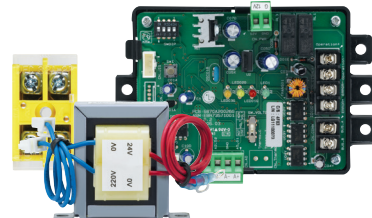
VARIABLE WATER FLOW CONTROL KIT

Accessory developed for controlling the water flow

PWFCKN000 (MULTI V WATER IV)



PRVCO (MULTI V WATER II)



Features

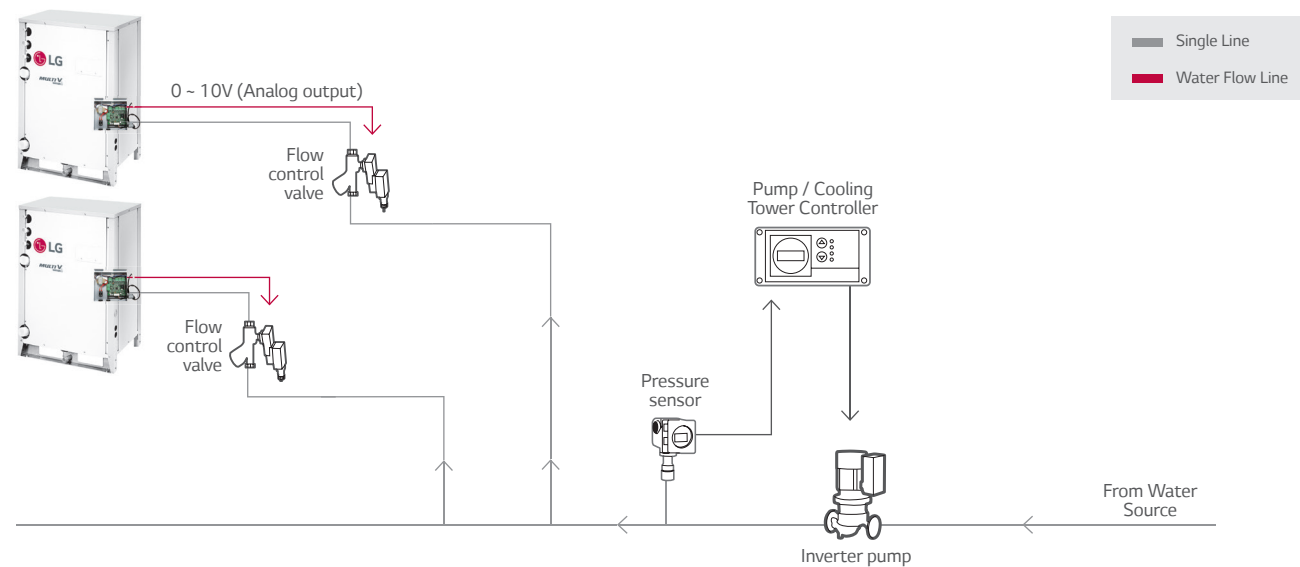
• Function

- Water pump or 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



- Flow control valve : Regulates the flow or pressure of a fluid, normally responding to signals generated by independent devices.
- Flow Meter : Measures mass flow rate of a fluid traveling through a tube. (The mass flow rate is the mass of the fluid traveling past a fixed point per unit time.)
- Pressure Sensor : Measures the pressure.

COOL / HEAT SELECTOR

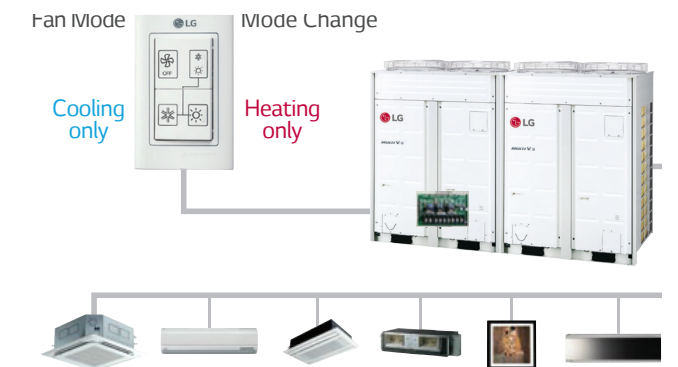
Cooling, heating, or fan mode can be selected to prevent cooling and heating mixing errors during seasonal changes

PRDSBM



Features

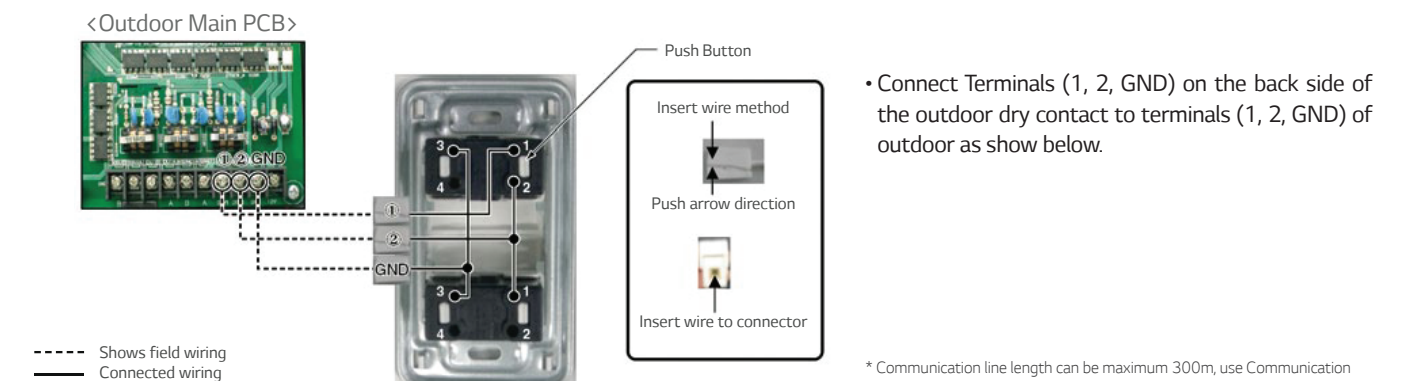
- Indoor unit mode control without central controller
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season



Models Applied

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

Wiring Diagram



AHU KITS

AIR HANDLING
UNIT KITS

Solution to connect LG outdoor unit on the DX coil of an air handing unit,
with LG’s high efficient products for maximum cost saving



Communication Kit

PUCKA0
PRCKA1

PUDCA0
PRDCA0



Control Kit

PRCKD21E
PRCKD41E



EEV Kit
(Electronic Expansion Valve)

PRLK048A0
PRLK096A0



TXV Kit
(Thermal Expansion Valve)

PATX13A0E PATX25A0E
PATX20A0E PATX35A0E
PATX50A0E

Specifications

• Communication & Control Kit

Type	Model	Combination				Description	Dimensions (mm)		
		Outdoor Unit	EEV Kit	TXV Kit	Centralized Controller		W	H	D
Communication Kit	PRCKA1	MULTI V	•	•	•	Return / Room air control by remote controller or dry contact	280	280	135
	PRDCA0	MULTI V	•	•	-	Return / Room air or supply air (Capacity) control by DDC	330	430	180
	PUCKA0	Single Split	-	-	•	Return / Room air or supply air (Capacity) control by DDC	280	280	135
	PUDCA0	Single Split	-	-	-	Return / Room air or supply air (Capacity) control by DDC This unit is connected with outdoor unit 1:1	330	430	180
Control Kit	PRCKD21E	MULTI V	-	•	•	Max capacity 1 ~ 4 master outdoor unit	600	750	285
	PRCKD41E	MULTI V	-	•	•	Max capacity 5 ~ 8 master outdoor unit	600	750	285

• Expansion Valves

Type	Model	Outdoor Unit Combination (Capacity Range)	Pipe Diameter (mm)				Dimensions (mm)		
			Liquid (ODU)	Liquid (AHU)	Gas (ODU)	Gas (AHU)	W	H	D
EEV Kit (Electronic Expansion Valve)	PRLK048A0	4 ~ 10HP	12.7	12.7	-	-	217	404	83
	PRLK096A0	12 ~ 20HP	12.7	12.7	-	-	217	404	83
TXV Kit (Thermal Expansion Valve)	PATX13A0E	8 ~ 16HP	15.88	15.88	22.2	22.2	491	331	174
	PATX20A0E	18 ~ 26HP	15.88	22.2	28.58	28.58	491	331	174
	PATX25A0E	28 ~ 36HP	22.2	28.58	34.92	34.92	491	331	174
	PATX35A0E	38 ~ 46HP	28.58	34.92	41.3	41.3	491	331	174
	PATX50A0E	48 ~ 56HP	28.58	34.92	41.3	41.3	561	331	192

Features

• Communication Kit

PRCKA1 & PUCKA0

List	Description
Communication Kit Operation	On / Off
Mode Change	Cooling / Heating / Fan
Return Air (or Room) Temperature Setting	Cooling 18 ~ 30°C, Heating 16 ~ 30°C
Fan Speed Signal Output	3 steps fan signal output (220V)
Reservation	On / Off, Weekly
Return Air (or Room) Temperature Display	For MULTI V - Stand alone

Note : PRCKA1 is controlled by LG wired remote controller or LG centralized controller

Accessories for PRCKA1 & PUCKA0

Wired Remote Controller		Dry Contact				IO Module (for Outdoor Capacity Control)
Standard II		Simple	2 point	Thermostat	Modbus	
PREMTB001 (White)	PREMTBB01 (Black)	PDRYCB000	PDRYCB400	PDRYCB300	PDRYCB500	PVDSMN000 (MULTI V IV) PWFCCKN000 (MULTI V WATER IV)

PRDCA0 & PUDCA0

List		Description	Type	Min	Max
Controlling	Communication Kit Operation	On / Off	Digital input* (Non voltage)	-	-
	Mode Change	Fan only / Heating / Cooling	Digital input (Non voltage)	-	-
	Fan Step Signal Output	High / Mid / Low (3 steps)	Voltage output (220V ~ 230V)	-	-
	Room Temperature Control	Cooling 18 ~ 30°C, Heating 16 ~ 30°C	Analog input	0V	10V
	Supply Air Temperature Control (by Outdoor Capacity Control)	Compressor Off, Compressor Off & Fan Off, 40 ~ 100% capacity control	Analog input	0V	10V
Monitoring	Outdoor Unit Operation	On / Off	Digital output* (Non voltage)	Max : AC 250V, DC 30V, 1A	
	Communication Kit Operation	On / Off	Digital output (Non voltage)	Max : AC 250V, DC 30V, 1A	
	Mode	Fan / Defrost / Cooling / Heating	Digital output (Non voltage)	Max : AC 250V, DC 30V, 1A	
	Fan Mode	High / Mid / Low (3 steps)	Digital output (Non voltage)	Max : AC 250V, DC 30V, 1A	
	Error Status	No error / Error occurred	Digital output (Non voltage)	Max : AC 250V, DC 30V, 1A	

* Binary input and output (Open and short), DO is normal open, for more detail please refer to installation manual
Note : DDC or thermostat (filed supplied item) is required to control PRDCA0

Accessories for PRDCA0 & PUDCA0

Wired Remote Controller	
Standard II (Monitoring Only)	
PREMTB001 (White)	PREMTBB01 (Black)

AHU KITS

AIR HANDLING UNIT KITS

Solution to connect LG outdoor unit on the DX coil of an air handing unit, with LG’s high efficient products for maximum cost saving

Features

• Control Kit

List	Required Item
Heating / Cooling	SA / RA temperature sensor (or SA / RA temperature & humidity sensor)
Automatic Ventilation	SA / RA temperature, CO ₂ sensor, Damper actuator (OA, EA, MA)
Energy Saving (Cooling Mode Only)	SA temperature, OA / RA temp&humidity sensor, Damper actuator (OA, EA, MA)
Humidification	SA temperature, RA temperature & humidity sensor, Humidifier
Inverter Fan Control	SA / RA temperature, Static pressure sensor, Inverter driver for fan control
Filter Alarm	Difference pressure sensor
Smoke Detecting	Smoke detection sensor

RA.: Return Air, EA : Exhaust Air, OA : Outdoor Air, SA : Supply Air, MA : Mix air (RA + OA)

• Field Supplied Item

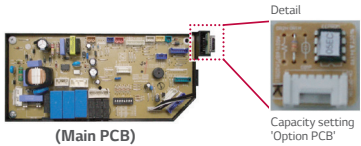
List	Required Specification	Apply Location
Temperature Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Temperature boundary : -50 ~ 50°C	- Apply to MA, SA, RA
Temperature & Humidity Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Temperature boundary : -40 ~ 70°C - Humidity boundary : 0 ~ 95% RH	- Apply to SA, RA, OA - Can not be applied to MA
Damper Actuator	- Power : AC 24V, In/Output signal : DC 0 ~ 10V - Torque : 1.5 Nm, Operation time : 150sec. - Rotation angle : 90°	- Apply to OA, EA, MA damper
Difference Pressure Sensor (for Filter)	- Power : AC 24V, Output signal : DC 0 ~ 10V - Boundary : 0 ~ 1000Pa * Switch type : Relay Open / Close	- Apply to filter
Static Pressure Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Boundary : 0 ~ 1000pa	- Apply to SA (for inverter control)
CO ₂ Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Boundary : 0 ~ 2000ppm	- Apply to RA duct
Smoke Detection Sensor	- Power : AC 24V, From : Contact point type	- Apply to RA duct

Note : Boundary of specification can be changed through LGAV software. However, please make a specification referring to the above table

Capacity Selection

• For Communication Kit with SINGLE SPLIT

- When selecting evaporator, change ‘Option PCB’ in Communication Kit according to below table (Basic ‘Option PCB’ is for 24k Btu/h)

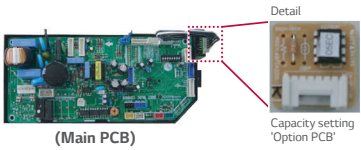


Option PCB 12kBTU	Outdoor Unit Capacity		Recommended Heat Exchanger Volume (10 ⁻³ x m ³)	Maximum Heat Exchanger Capacity (kW)	Air Flow Rate (CMM)	Applicable Outdoor Units		
	kBTU	kW				PUCKA0 H-Inverter	Standard Inverter	PUDCA0 Standard Inverter
EBR65102901	12	3.5	2.2	3.5	9 ~ 10	-	●	-
EBR65102902	18	5.0	2.4	5.0	13 ~ 16.5	-	●	●*
EBR65102903	24	7.1	2.6	7.1	14 ~ 18	●	●	●*
EBR65102904	30	8.0	2.9	8.0	20 ~ 26.5	●	●	●*
EBR65102905	36	10.0	3.1	10.0	26.5 ~ 32	●	●	-
EBR65102906	42	12.5	3.4	12.5	28 ~ 36	●	●	-
EBR65102907	48	14.0	4.0	14.0	30 ~ 40	●	●	-
EBR65102908	60	15.0	4.7	15.0	40 ~ 50	-	●	-
EBR77627409	70	19.0	5.2	20.0	60 ~ 70	-	●	●
EBR77627406	85	23.0	5.9	23.0	64 ~ 80	-	●	●

1) Evaporator Saturated Temperature = 6oC, Air Temperature = 27oC DBT / 19oC WBT
2) Combination allowed only for air-to-air system.
* UU18WUE4 / UU24WU44 / UU30WU44 Available

• For Communication Kit with MULTI V

- When selecting evaporator, change ‘Option PCB’ in Communication kit according to below table (Basic ‘Option PCB’ is for 36k Btu/h)
- After checking the need capacity, remove the 36k Option PCB equipped in the main PCB, and set up the Option PCB fitted the need capacity in the main PCB.



Option PCB P/No	Capacity Index (Btu/h)	Recommended Heat Exchanger Volume (10 ⁻³ x m ³)	Maximum Heat Exchanger Capacity (kW)	Air Flow Rate (CMM)
EBR52358907	28k	2.7	8.6	22 ~ 26
EBR52358908	36k	3.1	11.0	25 ~ 32
EBR52358909	42k	3.4	13.8	31 ~ 35
EBR52358910	48k	4.0	15.4	33 ~ 45
EBR52358911	76k	5.4	22.2	50 ~ 64
EBR52358912	96k	6.3	28.1	64 ~ 72
EBR52358914	115k	7.3	33.7	72 ~ 88
EBR52358915	134k	8.5	39.3	88 ~ 103
EBR52358916	153k	9.5	45.4	103 ~ 116
EBR52358917	172k	10.5	50.4	114 ~ 129
EBR52358913	192k	11.2	56.2	121 ~ 137

* Evaporator Saturated Temperature = 6°C, Air Temperature = 27°C DBT / 19°C WBT
* Heat exchanger volume (m³) : Pipe cross-section x Tube length
- Pipe cross-section (m²) = π x ID² / 4
- Tube length (m) = Tube length of 1 pipe x Tube step x Tube row






AHU KITS

AIR HANDLING UNIT KITS

Solution to connect LG outdoor unit on the DX coil of an air handing unit, with LG's high efficient products for maximum cost saving


Installation Scene

• Simple Control with PUCKA0

SINGLE SPLIT	AHU (Field Supply)	PUCKA0	Expansion Valve is not Required	Wired Remote Controller	Centralized Controller	DDC (Field Supply) + Dry Contact
						








Optional

• Simple Control with PUDCA0






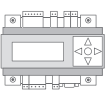
SINGLE SPLIT	AHU (Field Supply)	PUDCA0	Expansion Valve is not Required	Wired Remote Controller		DDC (Field Supply) + Dry Contact
						

(Monitoring Only)

• Simple Control with PRCKA1








MULTI V	AHU (Field Supply)	PRCKA1	EEV Kit or TXV Kit	Wired Remote Controller	Centralized Controller	DDC (Field Supply) + Dry Contact
						

• Simple Control with PRDCA0

MULTI V	AHU (Field Supply)	PRDCA0	EEV Kit or TXV Kit	Wired Remote Controller		DDC (Field Supply) + Dry Contact
						

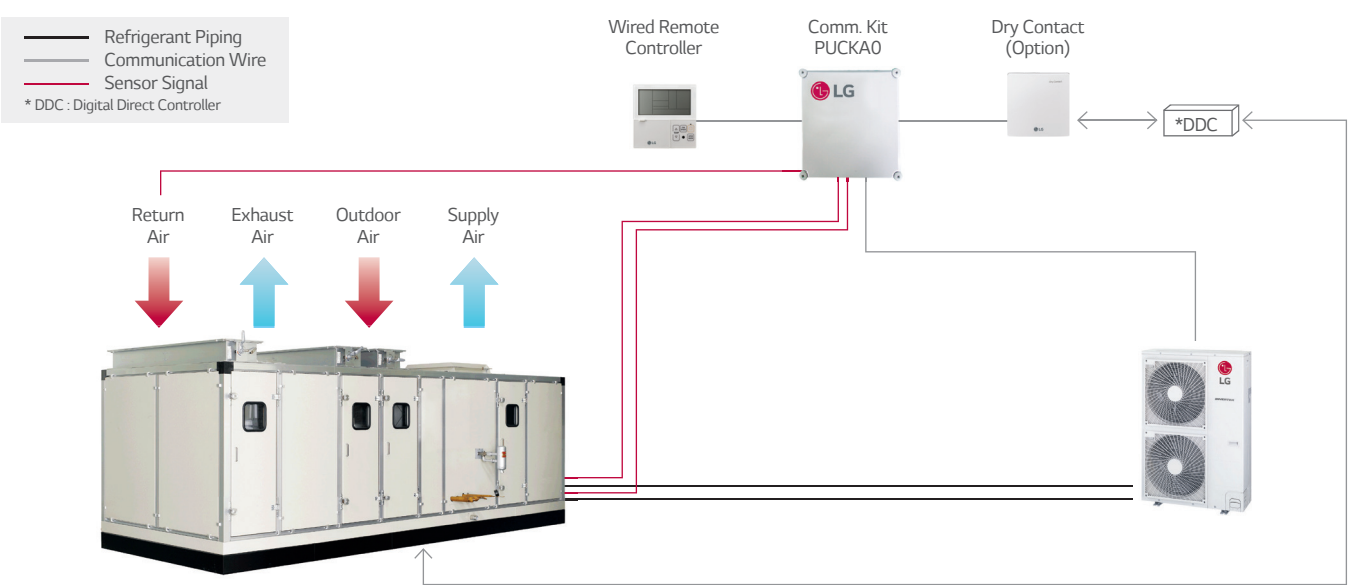
(Monitoring Only)

• Various Control with Control Kit

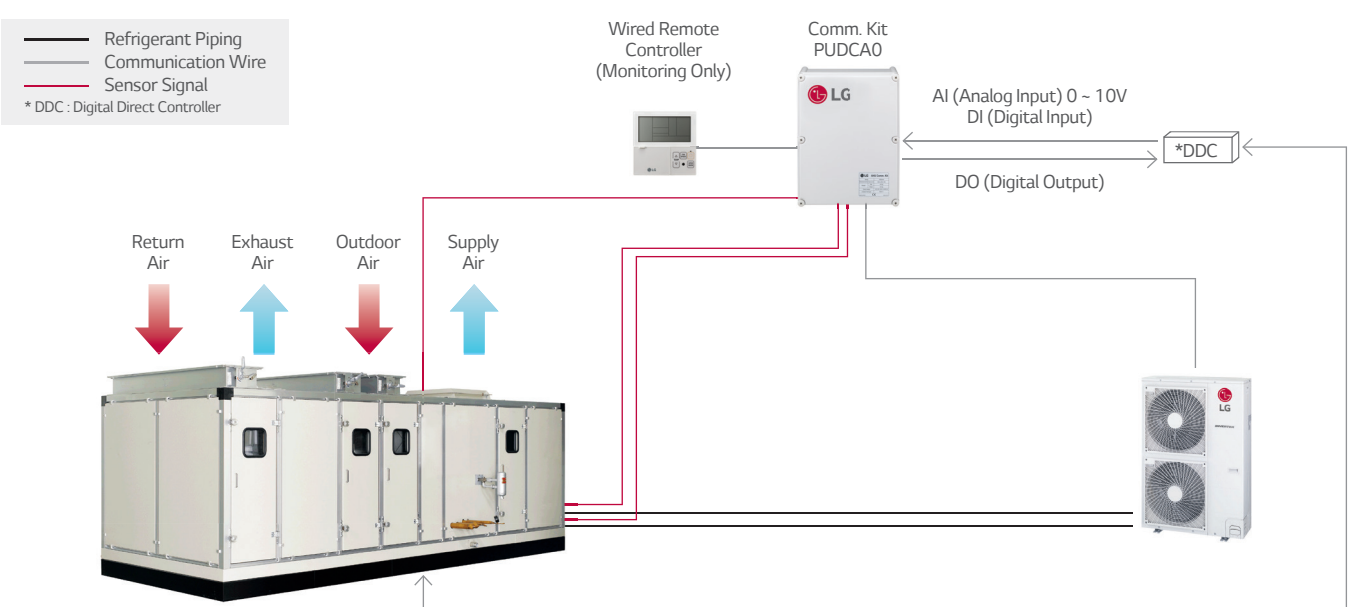
MULTI V	AHU (Field Supply)	Control Kit	TXV Kit Only		Centralized Controller	
						
MULTI V			TXV Kit Only			Sensors and Actuators are Required According to Control Function
						

Application

• Simple Control with PUCKA0



• Simple Control with PUDCA0



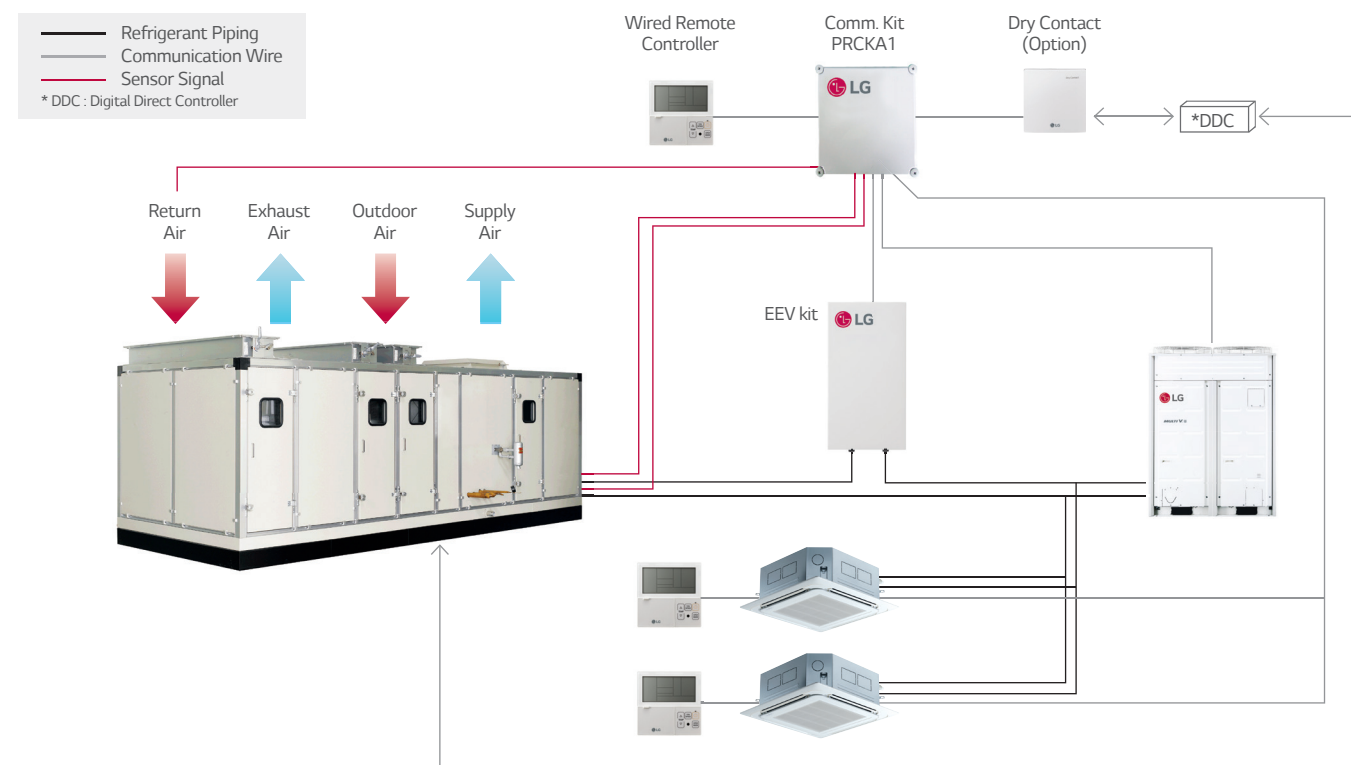
AHU KITS

AIR HANDLING UNIT KITS

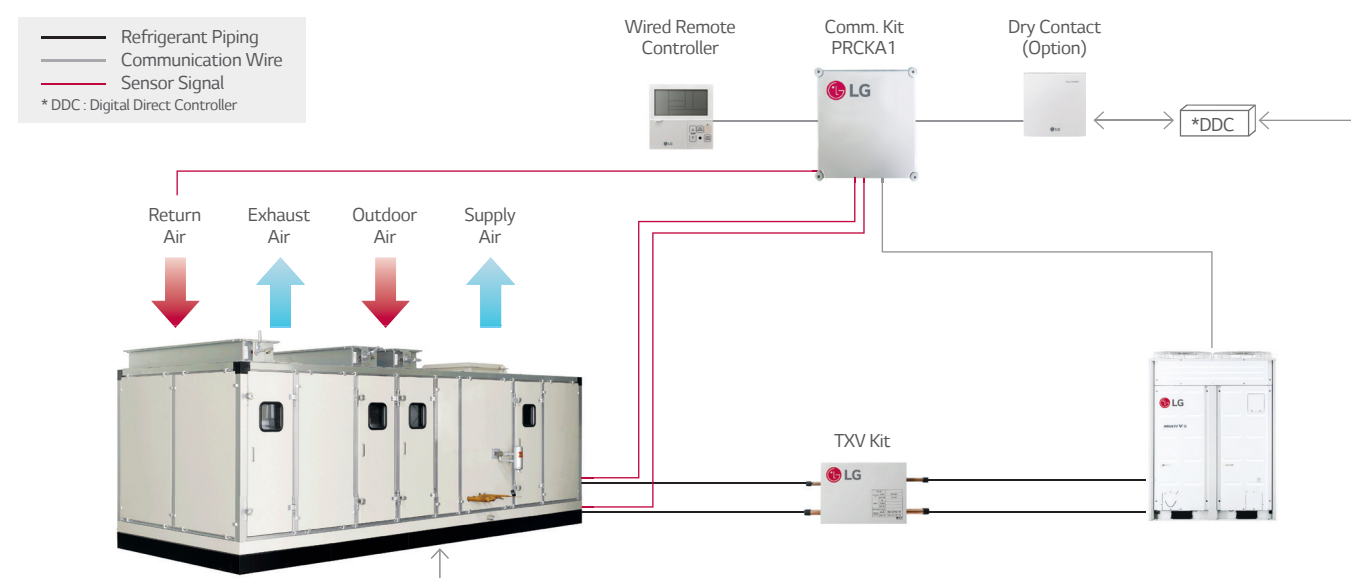
Solution to connect LG outdoor unit on the DX coil of an air handling unit, with LG's high efficient products for maximum cost saving

Application

• Simple Control with PRCKA1 – EEV Kits + Indoor Units

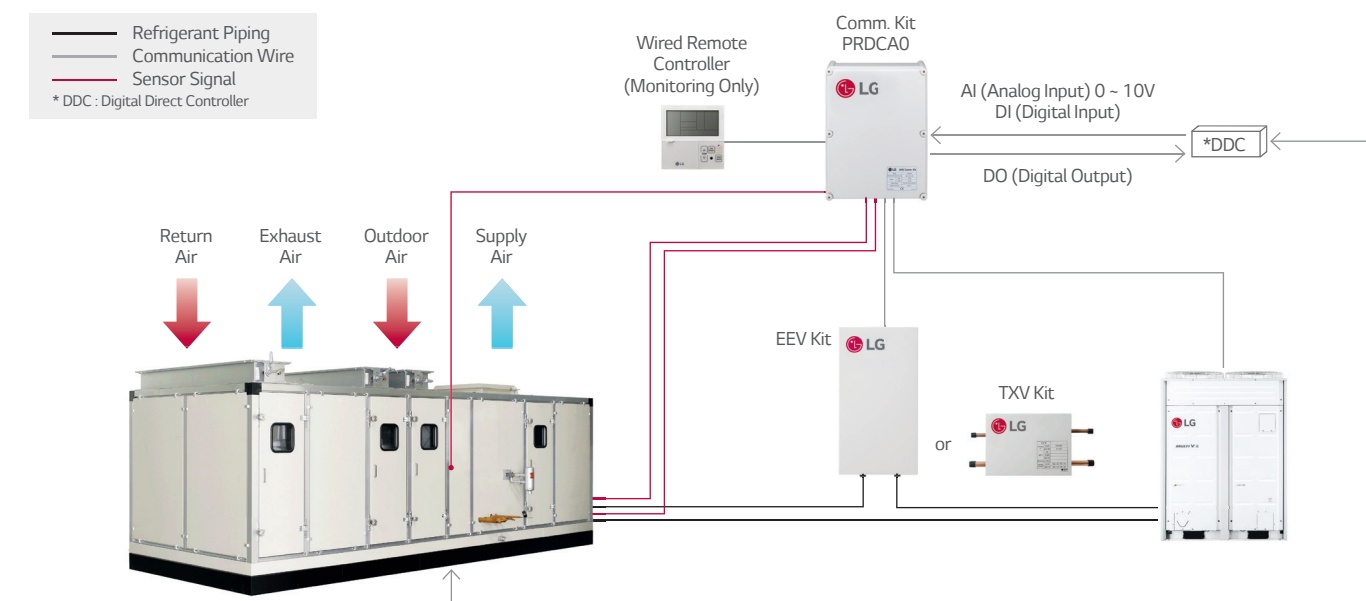


• Simple Control with PRCKA1 – Single TXV Kit (without Indoor Unit)

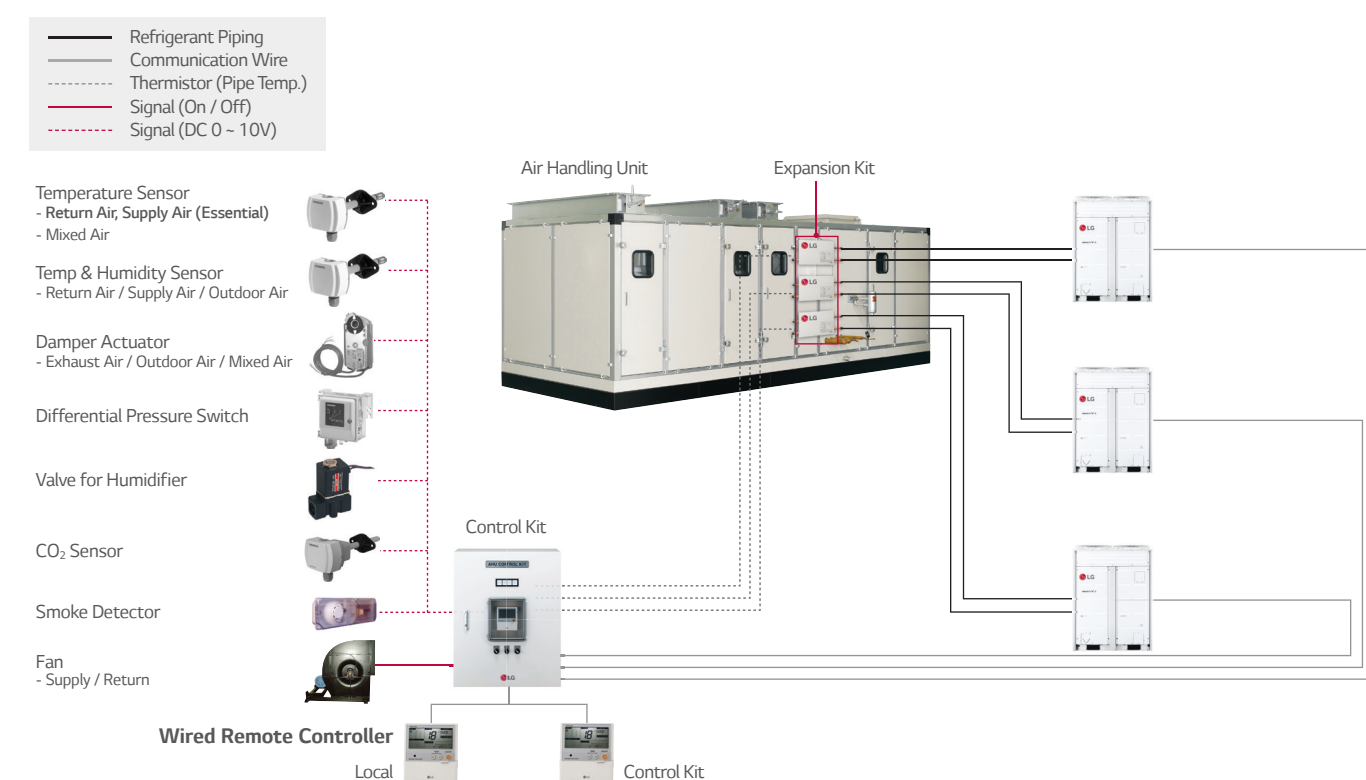


Application







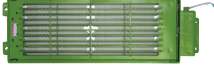









• Simple Control with PRDCA0 – Single EEV Kit or TXV Kit



• Various Control with Control kit – Multiple MULTI Vs + TXV Kits



MECHANICAL ACCESSORIES LINE-UP

Indoor		Outdoor	
Ceiling Mounted Cassette		Ceiling Concealed Duct	
Auto Elevation Grille		Drain Pump Kit	
			
PTEGM0		ABDPG PBDP9	
Cassette Cover		Suction Grill	
			
PTDCM PTDCQ		PBSGB30 / PBSGB40	
Cassette Panel		Canvas	
			
NEW 4 Way Cassette (Compact panel) PT-QCHW0		PBSC30 / PBSC40	
Plasma Kit		ETC.	
		CO ₂ Sensor	
PTPKM0 PTPKQ0			
Ventilation Kit		Refrigerant Leakage Detector	
			
PTVK410		PES-CORV0 PRLDNV50	
PTVK420 PTVK430		Independent Power Module	
			
PT-UQC / PT-UMC1		PRIPO	
2 Way Cassette PT-HLC		THERMA V	
1 Way Cassette (Grill Type) PT-UUC / PT-UUC1 / PT-UTC (Panel Type) PT-UUD / PT-UTD		Solar Heating Kit	
			
		PHLLA	
		Sanitary Tank Kit	
			
		PHLTA / PHLTC / PHLTB	
		Domestic Hot Water Tank	
			
		LGRTV200E (198 LITERS) LGRTV300E (198 LITERS) LGRTV200VE (198 LITERS) LGRTV300VE (198 LITERS)	
		NEW EEV Kit NEW IR Receiver	
			
		PRGK024A0 PWLRVN000	

Mechanical Accessories Line up and Application

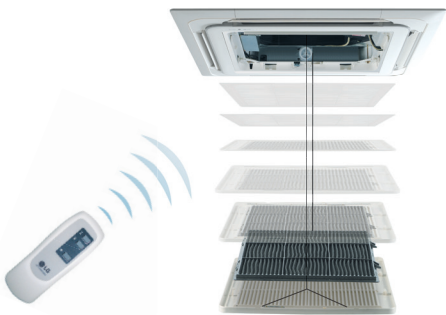
Type 1	Type 2	SINGLE SPLIT	MULTI	MULTI V	THERMA V	Remark
INDOOR	Auto Elevation Grille	•	-	•	-	4-Way Cassette
	Cassette Panel	•	•	•	-	4-Way / 2-Way / 1-Way Cassette
	Cassette Cover	•	•	•	-	4-Way Cassette
	Ventilation Kit	•	•	•	-	4-Way Cassette
	Plasma Kit	•	•	•	-	4-Way Cassette
	Suction Grill / Canvas	-	-	•	-	Ceiling Concealed Duct (Built-in)
	Drain Pump Kit	•	•	-	-	Ceiling Concealed Duct
	Refrigerant Leakage Detection Kit	-	-	•	-	MULTI V 4 th Generation Indoors
	Independent Power Module	-	-	•	-	MULTI V Indoor
	CO ₂ Sensor	-	-	•	-	Energy Recovery Ventilator
	EEV Kit	-	-	•	-	MULTI V Indoors
OUTDOOR	IR Receiver	•	•	•	-	Ceiling Concealed Duct
	Air Guide	-	-	•	-	MULTI V Outdoor
	Drain Pan	-	-	•	•	MULTI V Outdoor / THERMA V

* Only for chassis TM, TN, TP

AUTO ELEVATION GRILLE

Easy filter cleaning with the elevation grille

PTEGM0



Features

- Easy Filter Cleaning with Elevation Grille
 - Installation inside main body
 - Auto horizontal control
 - 4 points support structure
- Memory for user's level
- Max 4.5m length
- Model : PTEGM0 (for chassis TM, TN, TP)



Operating with wired remote controller* and wireless remote controller included in PTEGM0.
* PREMTB001, PREMTBB01

Models Applied

- 4 Way Cassette : Refer to PDB for applicable models

Parts Included

- Inlet Grille (1EA)
- Auto Elevation Grille Kit (1EA)
- Wireless Remote Controller (1EA)
- Screws (4EA)
- Installation Manual (1EA)

Application



CASSETTE PANEL

Stylish designed panels make more unique space by various applications

4 Way Cassette
PT-QCHW0



PT-UQC /
PT-UMC1



2 Way Cassette
PT-HLC



1 Way Cassette (Grill Type)
PT-UUC / PT-UUC1 /
PT-UTC

(Panel Type)
PT-UUD / PT-UTD

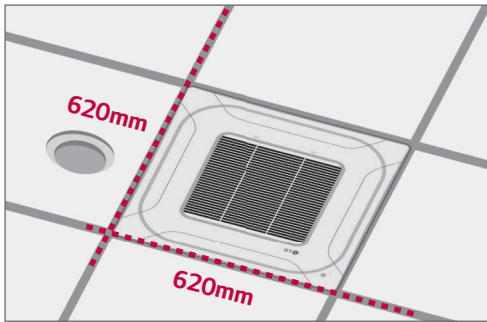
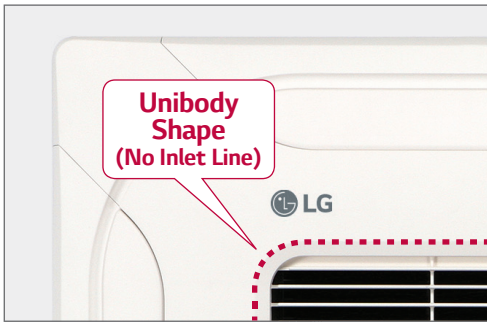


Features

- Independent vane operation uses separate motors, making it Possible to control all four vanes independently.
- The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe.

Compact and Stylish Design

- New 4 way cassette panel adapted unibody shape and matching with into the ceiling
- Panel size is fit into the ceiling tile



Specifications

Model name		Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)			Applied model		
						W	H	D	SINGLE SPLIT	MULTI SPLIT	MULTI V
4-Way	PT-QCHW0	Horizontal Grill	Morning Fog (RAL 120-4)	X	3.0	620	20	620	-	-	1.5 ~ 5.0kw
	PT-UQC	Horizontal Grill	Morning Fog (RAL 120-4)	X	3.0	700	22	700	2.5 ~ 5.0kw	1.5 ~ 5.0kw	1.5 ~ 5.0kw
	PT-UMC1	Horizontal Grill	Morning Fog (RAL 120-4)	X	5.6	950	25	950	7.1 ~ 15.0kw	7.1kw	7.1 ~ 14.0kw
2-Way	PT-HLC	Grill	Morning Fog (RAL 120-4)	X	4.0	1,050	28	640	-	-	5.0 ~ 7.1kw
1-Way	PT-UUC	Grill	Noble White (RAL 110-1)	O	4.6	1,100	34	500	-	-	2.1 ~ 3.5kw
	PT-UUC1	Grill	Morning Fog (RAL 120-4)	X	4.4	1,100	34	500	-	2.5 ~ 3.5kw	2.5 ~ 3.5kw
	PT-UTC	Grill	Noble White (RAL 110-1)	O	5.5	1,420	34	500	-	-	5.0 ~ 7.1kw
	PT-UUD	Panel	Noble White (RAL 110-1)	O	4.6	1,100	34	500	-	-	2.1 ~ 3.5kw
	PT-UTD	Panel	Noble White (RAL 110-1)	O	5.5	1,420	34	500	-	-	5.0 ~ 7.1kw

CASSETTE COVER / PLASMA KIT

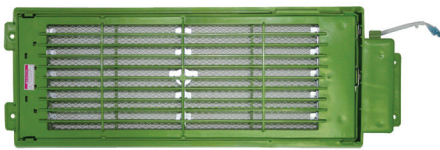
Air purifying filter to prevent dust and allergens

Air purifying filter to repel dust and allergens

PTDCM
PTDCQ



PTPKM0
PTPKQ0



Features

- Specially designed for indoor unit
- Covers the side area of cassette
- Gives elegant looks
- Light weight

Features

- It can remove microscopic contaminants such as dust and pollen to help reduce allergies.

* Plasma kit and Auto Elevation Grille are not applicable at the same time

Models Applied

- 4 Way Cassette (for chassis TP, TN, TM, TQ, TR)

Models Applied

Type	SINGLE SPLIT	MULTI SPLIT	MULTI V
4 Way Cassette	Option (2.5 / 3.5 / 5.0kw : PTPKQ0) (7.1kw ~ 15.0kw : PTPKM0)	Option (1.5 / 2.1kw : PTPKQ0)	Built-in
2 Way Cassette	-	-	Built-in
1 Way Cassette	-	Built-in	Built-in

Parts Included

- Cover A (4EA), Cover B (4EA)
- Cover C (4EA), Cover D (4EA)
- Screws
- Installation Manual (1EA)

Parts Included

- Plasma Kit (1EA)
- Screws
- Installation Manual (1EA)

Accessory Model Name

Model	Front Panel		Weight (kg)		Dimensions (mm)		
			NET	Gross	W	H	D
PTDCM	PT-UMC / PT-UMC1	TP / TN	5.9	8.8	1,157	1,157	268
		TM	5.9	8.8	1,157	1,157	310
PTDCQ	-	TR	5.0	7.2	907	907	268
	-	TQ	5.0	7.2	907	907	310

VENTILATION KIT

Fresh air can be supplied from outside through this ventilation kit

PTVK410
PTVK420
PTVK430



PTVK410



PTVK420



PTVK430

Features

- The ventilation kit can be supplied air from outside.

Models Applied

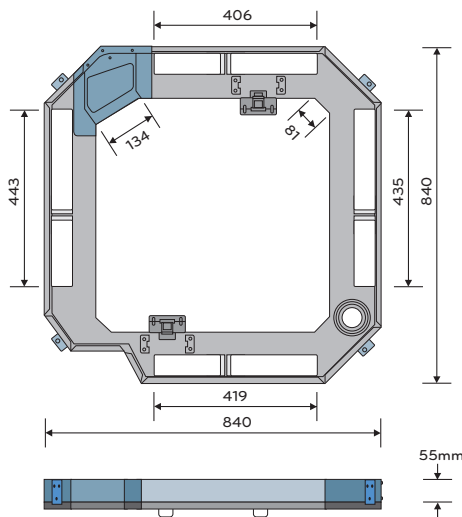
- **There are 2 Solutions for Fresh Air**
 - PTVK410+PTVK420 (for chassis TP, TN, TM)
 - PTVK430 (for chassis TR, TQ, TP, TN, TM)

* Users can purchase and use PTVK430 in addition to PTVK410+PTVK420 in need to phase in larger outdoor air volume.

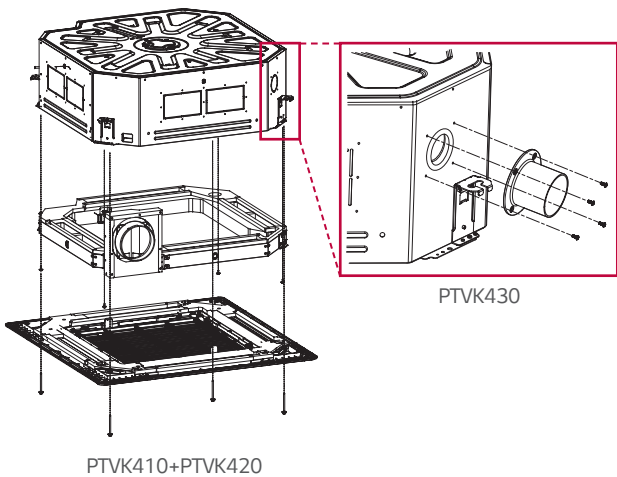
Parts Included

- PTVK410 : 1 Ventilation Kit, 8 Bolts, 1 Insulation
- PTVK420 : 1 Flange, 7 Screws
- PTVK420 : 1 Flange, 4 Screws, 1 Insulation

Dimensions



Assembly Diagram



PTVK410+PTVK420

PTVK430

DRAIN PUMP KIT

Drains away condensed water

ABDPG
PBDP9



ABDPG



PBDP9

Features

- In some places where natural drainage is not possible, a drain pump is very useful to pump out condensed water from indoor units.
- Drain pump assembly (AC 220 ~ 240V, 50 / 60Hz)

Models Applied

- Ceiling Concealed Duct (Refer to PDB for applicable models)

Accessory Model Name

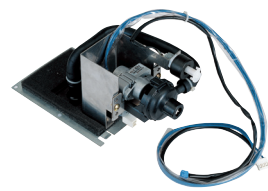
- Ceiling Concealed Duct (Refer to PDB for applicable models)

Product	Model		Drain Pump
SINGLE / MULTI SPLIT	12.3kg		Included
	Standard Inverter	CB**L	Included
		CM** / UM**	ABDPG
		UB70 / UB85	PBDP9
MULTI V	Econo Inverter		ABDPG
			Included

Application

- High head drain pump automatically drains water up to **700mm** of drain-head height. It provides perfect solution for water drainage.

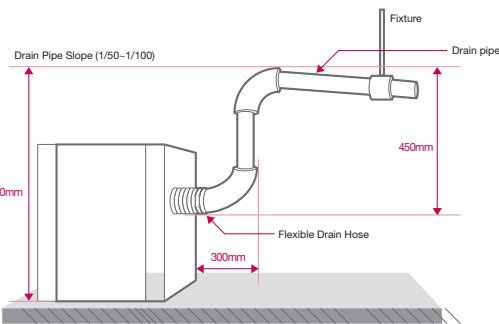
High Head Drain Pump



- * Included in H-Inverter
- * Supplied as accessory for Standard Inverter (ABDPG/ PBDP9)

Parts Included

- **ABDPG / PBDP9**
 - Drain pump assembly (1EA) (AC 220 ~ 240V, 50 / 60Hz, 400CMM)
 - Screw (4EA)
 - Cap (1EA)
 - Installation manual (1EA)



SUCTION GRILLE / CANVAS

High flexibility for a wide variety of applications

PBSGB30
PBSGB40
PBSC30
PBSC40



SUCTION GRILLE - PBSGB30 / PBSGB40



CANVAS - PBSC30 / PBSC40



Features

- High external static pressure facilitates unit use with flexible ducts of varying lengths
- When using suction grille, unit requires only 270mm of ceiling space
- Blends unobtrusively with any interior decoration

Models Applied

- Ceiling Concealed Duct _ Built-in type

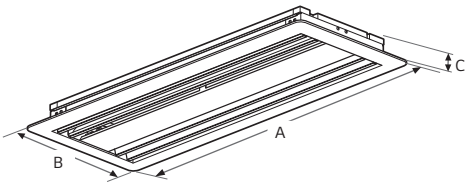
Accessory Model Name

Category	Model Name	Capacity (Btu/h)					
		ARNU07GB3G2	ARNU09GB3G2	ARNU12GB3G2	ARNU15GB3G2	ARNU18GB4G2	ARNU24GB4G2
Grille	PBSGB30	0	0	0	0	-	-
	PBSGB40	-	-	-	-	0	0
Canvas	PBSC30	0	0	0	0	-	-
	PBSC40	-	-	-	-	0	0

Parts Included

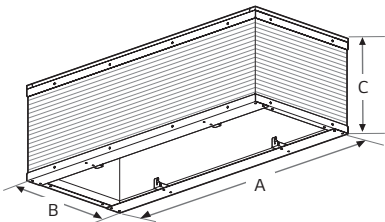
- For the Suction Grille :
 - Suction panel with air filter (1EA)
 - Suction panel fix bolt M5x18 (4EA)
 - Installation manual (1EA)
- For the Suction canvas :
 - Air suction canvas (1EA)
 - Screws for air suction canvas (4EA)
 - Adjusting chain (4EA)
 - Screws for adjusting chain (8EA)
 - Installation manual (1EA)

Dimensions



(Unit : mm)

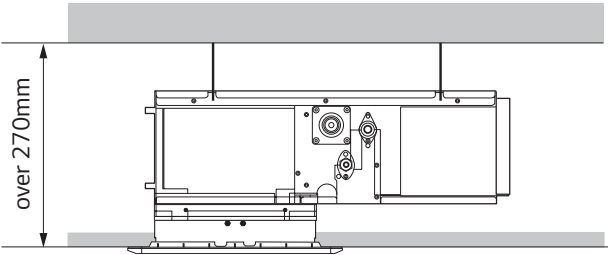
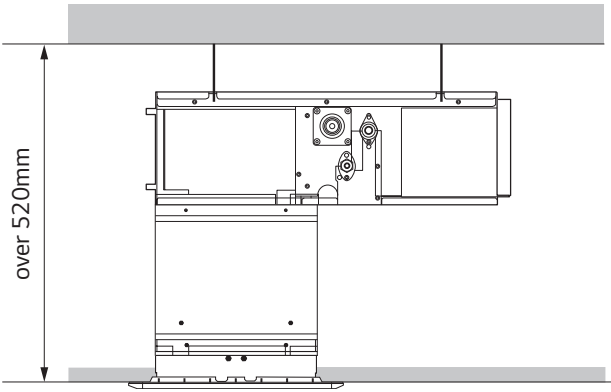
Model Name	A	B	C
PBSGB30	910	359	56
PBSGB40	1,188	359	56



(Unit : mm)

Model Name	A	B	C
PBSC30	821	274	42 ~ 250
PBSC40	1,100	274	42 ~ 250

Application



CO₂ SENSOR

CO₂ sensor in ventilation system.

PES-CORV0



Features

1) Model name : PES-CORV0

2) Specification

- Applied Model : ERV, ERV DX
- Function
 - Supply Voltage : DV 12V ± 5%
 - Output : 0 ~ 5V (Linear output, 1 ~ 2,000ppm CO₂)
 - Accuracy : 30ppm ± 5% of reading

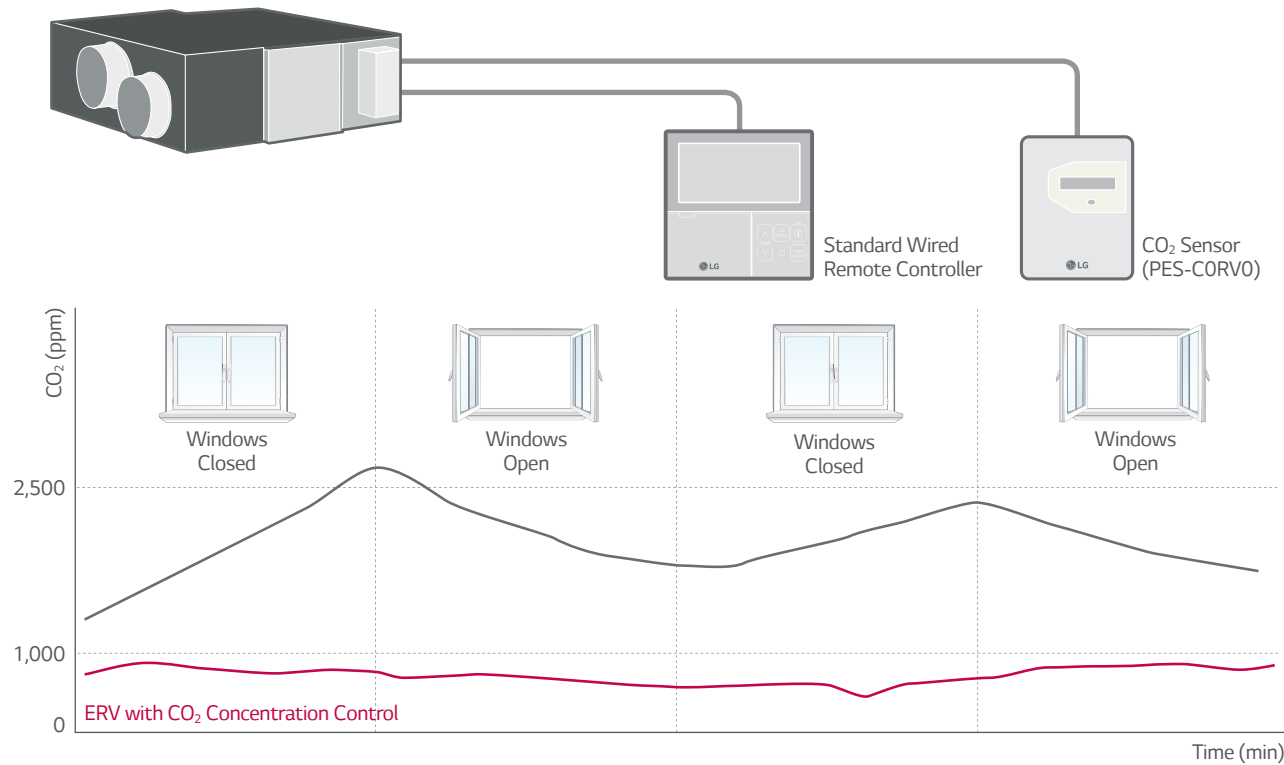
3) Description

- The product is especially designed to detect CO₂ concentration in ERV system.

• Operation Table

CO ₂ Sensor Reading	ERV Fan Operation
<500ppm	Off
500 ~ 700ppm	Low Speed
700 ~ 900ppm	High Speed
>900ppm	Super High Speed

Installation Scene



REFRIGERANT LEAKAGE DETECTOR

R410A refrigerant leakage detector makes our space safer

PRLDNVS0



Features

- This detector senses refrigerant leakage and when the refrigerant concentration exceeds 6,000ppm not only it will stop indoor unit operation but also it will give an alarm using buzzer and sensor LED. (The green and red LED lights blink simultaneously.)
- Alarm is “ON” over 6,000ppm has been maintained 5 seconds, and on the contrary to this, Alarm is “OFF” under 6,000ppm has been maintained 5 seconds.
- When the alarm of the refrigerant leak detector is switched on the user must ventilate until the alarm is disabled.
- The detector has to be installed inside the room and it can be installed 300 ~ 500mm from floor.

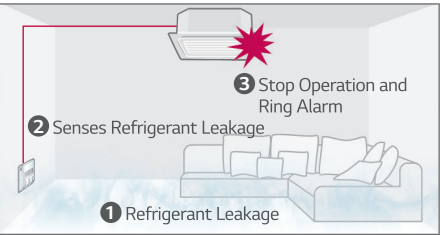
Models Applied

- New 4th generation indoor units only
- More detailed information refer to the “MULTI V INDOOR UNIT LINE UP & FEATURES OVERVIEW”. (Page 96 ~ 97)

Specifications

Parts		Specifications	
Sensor		Rated Voltage (V)	DC 5.0 ± 5%
		Dimensions (W x H x D, mm)	31 x 44 x 20
		Weight (g)	22
		Detectable Refrigerant	R410A
		Detected Concentration (ppm)	0 / 6,000 Alarm Off / On
		Operating Temperature Range (°C)	-10 ~ 50
		Preserved Temperature Range (°C)	-40 ~ 60
Connecting Cable		Average Power Consumption (mA)	35
		Cable Length (m)	10
Sensor Protective Cover		Dimensions of Front Plate (W x H x D, mm)	80 x 110 x 44.6
		Dimension of Backplate (W x H x D, mm)	80 x 110 x 6.5

Application



NEW

EEV KIT

MULTI V EEV KIT is specially designed to reduce noise and make comfort environment

PRGK024A0



Features

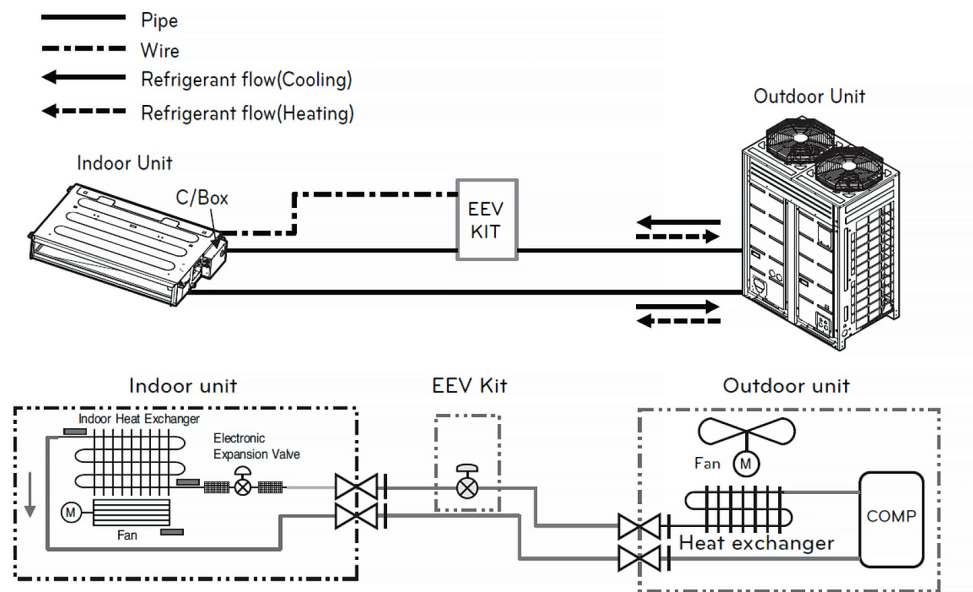
- Decreasing noise level of Multi V Indoor units
- Easy installation

Models Applied

- Ceiling Cassette (up to 15kBtu)
- Ceiling Concealed Duct (up to 18kBtu)
- Wall Mounted (up to 24kBtu)
- Console (up to 15kBtu)
- Floor Standing Unit (with Case / without Case) (up to 15kBtu)
- Convertible (up to 12kBtu, Ceiling Suspended Type is not able to connect this Kit)

* Fresh Air intake Unit is not able to connect this Kit

Application



Note : If you don't use EEV of same specification, Cooling (Heating) capacity may decrease.

NEW

IR RECEIVER

IR RECEIVER can be connected to CCD where the customer wants to control by wireless remote controller

PWLRVN000



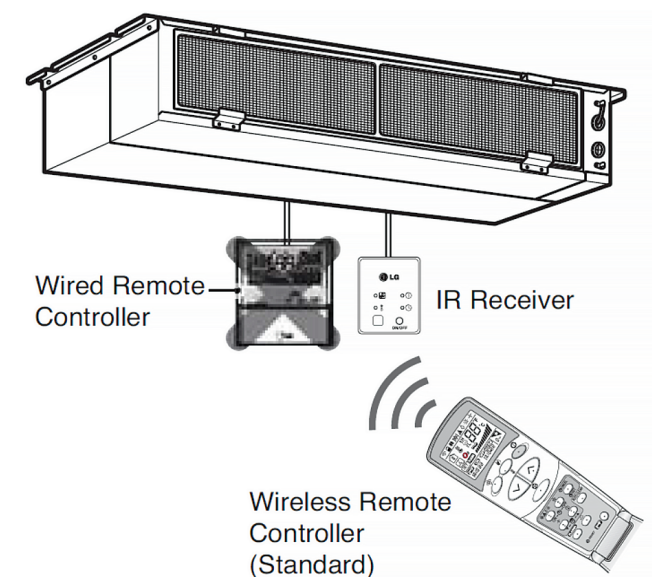
Features

- Designed for wireless control to operate Ceiling concealed duct
- Operation of Indication lamp (3 colors)
- Self-diagnosis function

Models Applied

- MULTI V Indoors (Ceiling Concealed Duct, Floor Standing Units)

Application

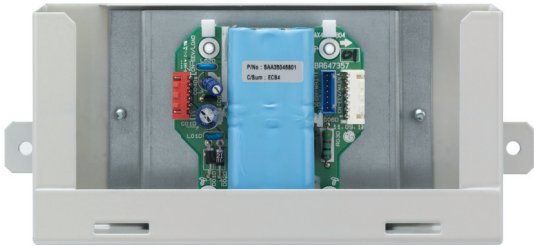


Note : Do not install both the IR Receiver and Wired Remote Controller. This may cause malfunctions.

INDEPENDENT POWER MODULE

EEV full close function in case of power cut

PRIPO

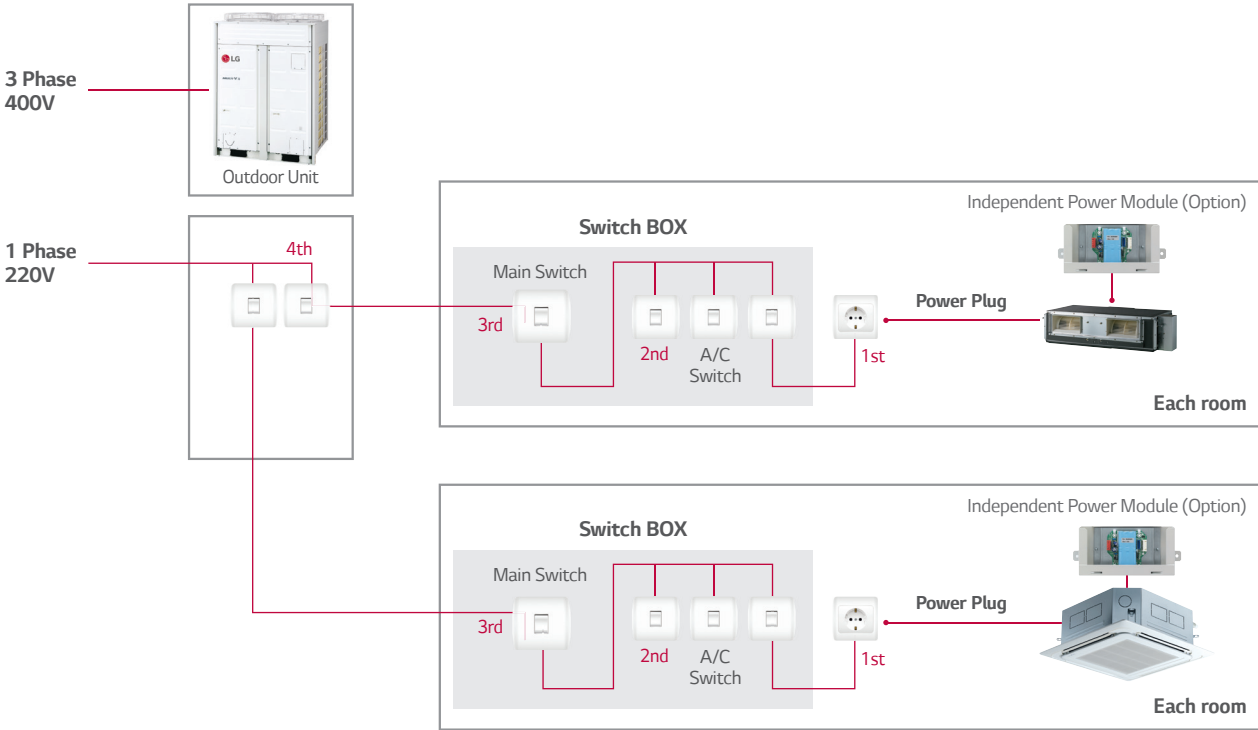


Features

- **Independent Power Module** is specially designed to close the Indoor EEV at power cut-Off.
 - Supply Voltage : DC 12V ±50%

Models Applied

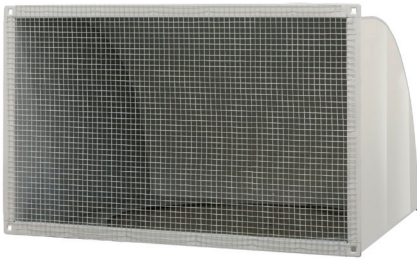
- **MULTI V Indoors**



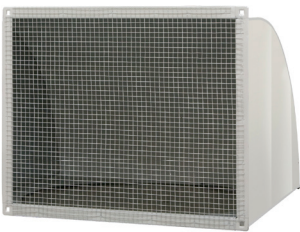
AIR GUIDE

Air discharge in difficult to access areas

PRAGX*S0



PRAGX2S0
(14 / 16 / 18 / 20HP)



PRAGX3S0
(8 / 10 / 12HP)

Features

- Converts vertical discharge into horizontal discharge
- Designed for outdoor discharge air
- Direction of air discharge can be changed by simple installation
- Installation flexibility

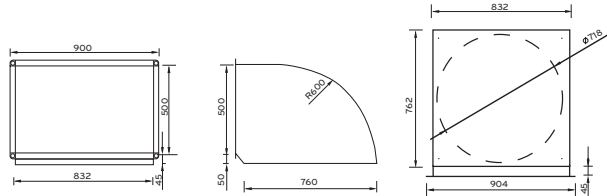
Models Applied

- **MULTI V IV (UX2, UX3)**
 - * In case of UX3, must purchase 2 units of PRAGX3S0.

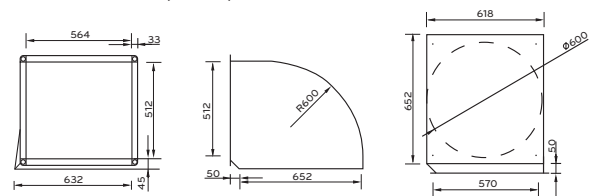
Dimensions

Model Name	Gross Weight	Net Weight
PRAGX2S0	22.5kg	12.3kg
PRAGX3S0	17kg	9.4kg

- **MULTI V IV (UX2)**



- **MULTI V IV (UX3)**



Application

- **MULTI V IV (UX2)**
 - ARU*080LTE4
 - ARU*100LTE4
 - ARU*120LTE4

* N : Heat Pump / B : Heat Recovery



- **MULTI V IV (UX3)**
 - ARU*140LTE4
 - ARU*160LTE4
 - ARU*180LTE4
 - ARU*200LTE4

* N : Heat Pump / B : Heat Recovery



DRAIN PAN

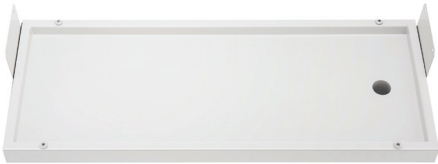
Easy drain installation

PRODX20 / PRODX30



NEW

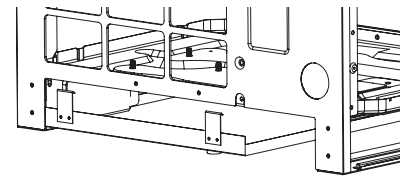
PHDPA (AWHP)



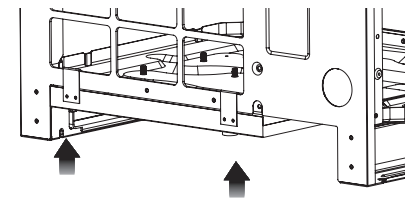
Features

- This unit can be applied for outdoor unit's drain.

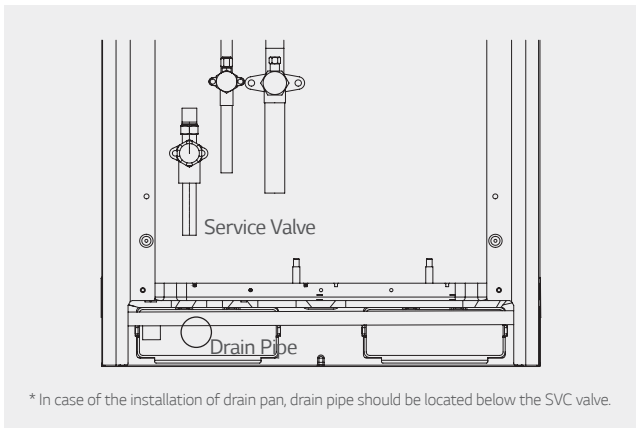
Installation



* Tuck drain pan below base pan



* Push drain pan in the direction of the arrow.
Brackets can be fixed on the side panel.



* In case of the installation of drain pan, drain pipe should be located below the SVC valve.

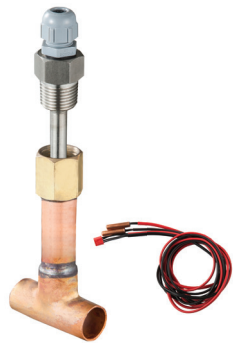
- This unit does not cover water drops of the outside product.
- Connect drain hose to drain pipe for drain condensate.

Accessory Model Name

Model Name	Width x Length	Remark
PRODX20	920mm x 466mm	UX2
PRODX30	1,240mm x 466mm	UX3
PHDPA (AWHP)	478mm x 190mm	

SOLARS HEATING KIT

PHLLA

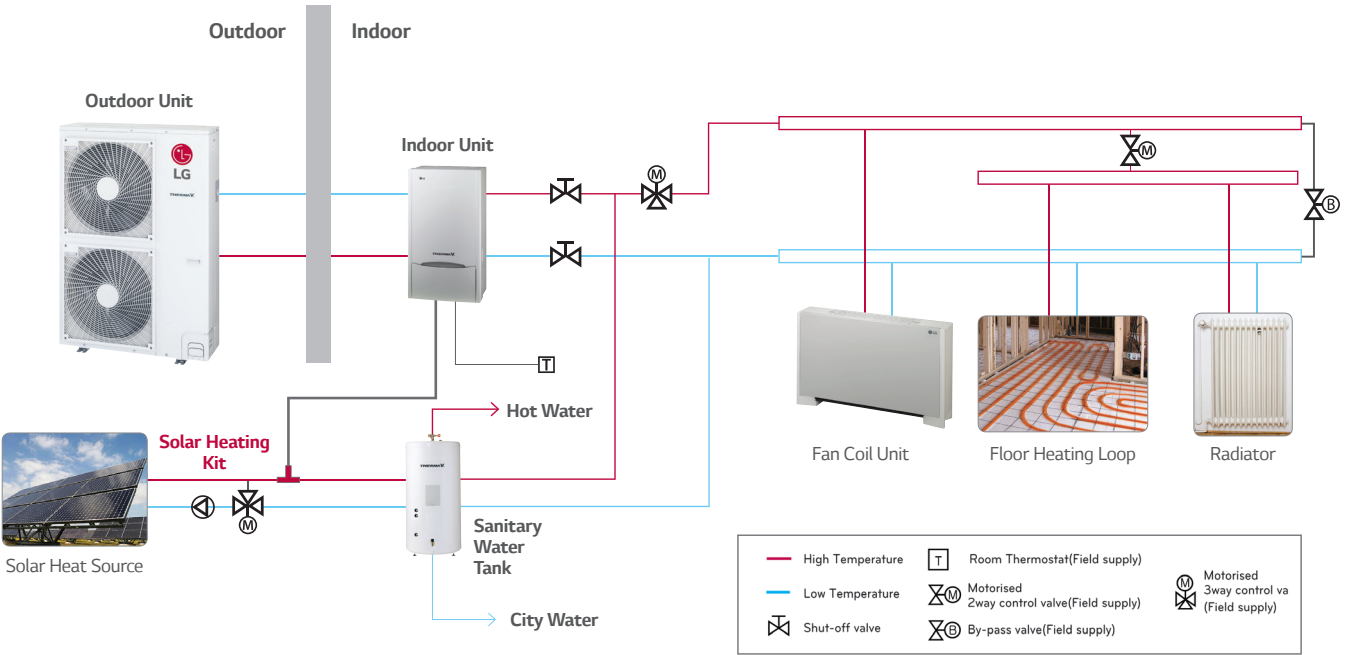


Features

- Interface for solar-thermal system with split-type THERMA V and double coil sanitary tank
- Installed at the water pipe, between sanitary tank and solar-thermal system
- Dimensions (H x W x D, mm) : 110 x 55 x 22
- According to solar system's water temperature, THERMA V controls 3 way valve's direction

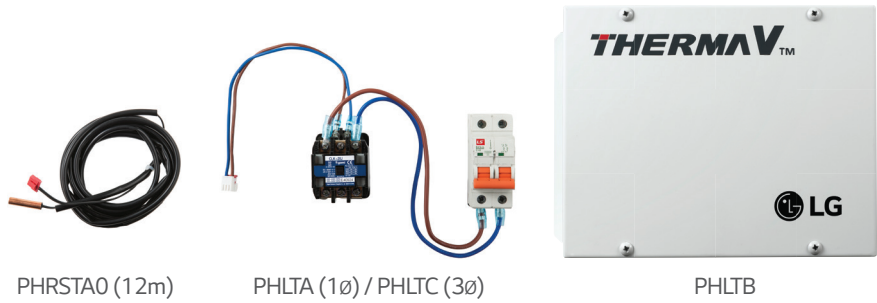
Installation Scene

- Components : THERMA V system, PHLLA, PHLTC, and field-supplied items.



SANITARY TANK KIT

PHLTA (1ø, Spilt)
PHLTC (3ø, Spilt)
PHLTB (Monobloc)



* The sensor (PHIRSTA0) can be purchased separately in case of using other brand's sanitary tank. PHIRSTA0 is included in PHLTA, PHLTC, PHLTB.

Features

[Spilt]

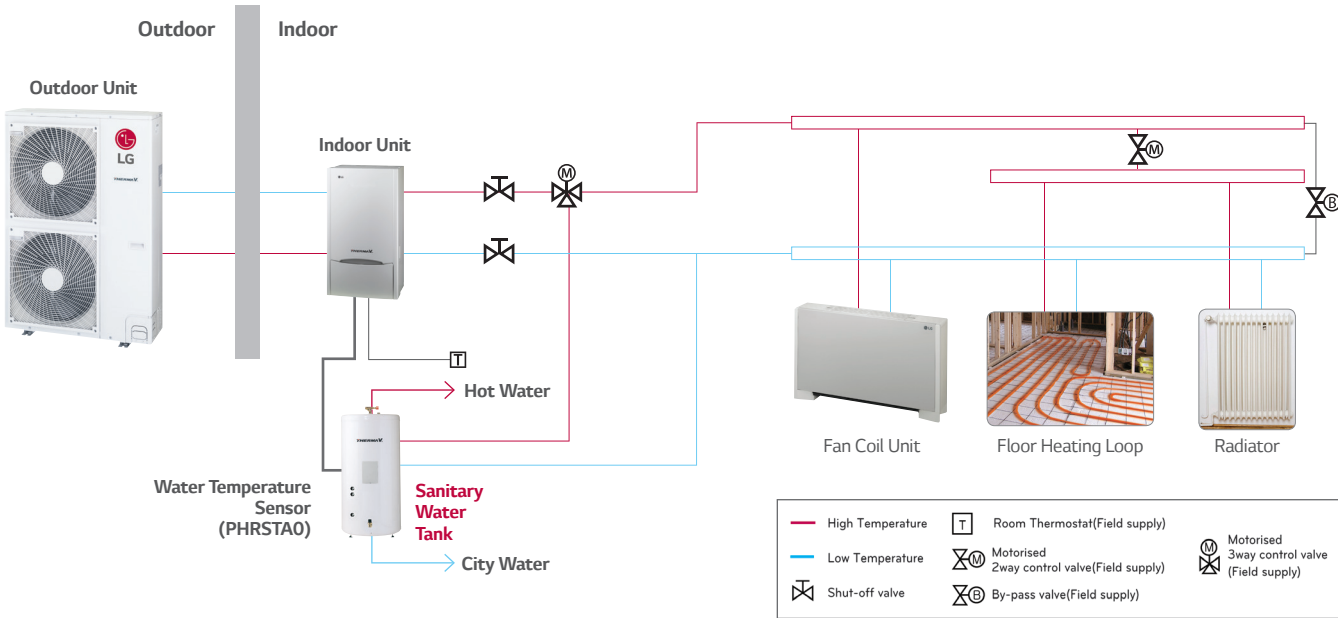
- PHLTA (1ø) / PHLTC (3ø)
To control sanitary tank temperature and sanitary tank electric heater for split models.
This unit will be installed inside indoor unit.

[Monobloc]

- PHLTB
- Easy to install sanitary water tank for monobloc.
There is a MCCB (Mold Case Current Breaker) to protect the product.
- Dimensions (H x W x D, mm) : 250 x 170 x 110
- Weight (kg) : 2.1
This unit will be installed outdoor.

Installation Scene

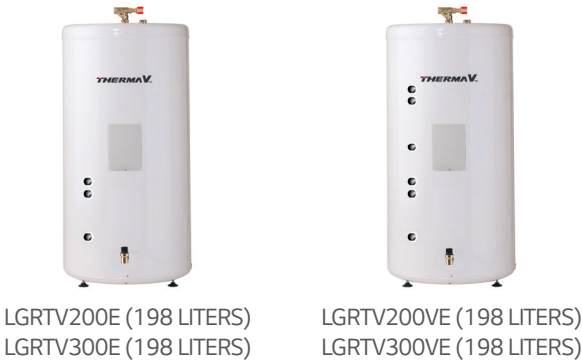
- Components : THERMA V system, PHLTA, PHLTC, and field-supplied items.



DOMESTIC HOT WATER TANK

Single Coil
LGRTV200E
LGRTV300E

Double Coil
LGRTV200VE
LGRTV300VE



Features

- Store and provide hot water for sanitation

Installation Scene

• Domestic Hot Water Tank - Single Coil

Domestic Hot Water Tank			LGRTV200E	LGRTV300E
General Characteristics	Water Volume	L	198	287
	Diameter	mm	580	580
	Height	mm	1,230	1,680
	Empty Weight	kg	45	59
	Tank - Materials		Stainless steel	Stainless steel
	Outer Skin - Materials		Paint Epoxy	Paint Epoxy
Characteristics of Electrical Back-up	Color - White RAL		White NC	White NC
	Additional Electric Heater	kW	3	3
	Adjustable Thermostat	°C	60-90	60-90
Characteristics of Exchanger	Exchanger Type		Single	Single
	Material Exchanger		LDX 2101 - Stainless Steel	LDX 2101 - Stainless Steel
	Maximum Water Temperature	°C	80	80
Hydraulic Connections - Heat Pump	THERMA V Entry	mm	25	25
	THERMA V Exit	mm	25	25
Hydraulic Connections - Domestic Hot Water Tank	City Water Entry	mm	22	22
	Hot Water Exit	mm	22	22
Electric Connection	Supply	ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50

MANDATORY OPTIONAL ACCESSORIES

Domestic Hot Water Tank Installation Kit	PHLTA	PHLTA
--	-------	-------

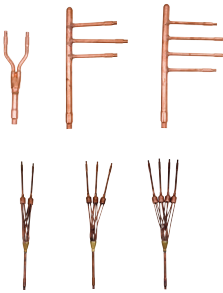

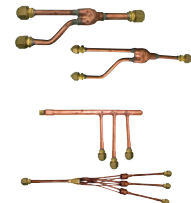
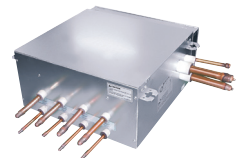
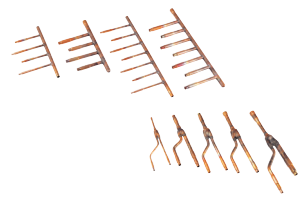



• Domestic Hot Water Tank - Double Coil

Domestic Hot Water Tank			LGRTV200VE	LGRTV300VE
General Characteristics	Water Volume	L	198	287
	Diameter	mm	580	580
	Height	mm	1,230	1,680
	Empty Weight	kg	49	64
	Tank - Materials		Stainless steel	Stainless steel
	Outer Skin - Materials		Paint Epoxy	Paint Epoxy
Characteristics of Electrical Back-up	Color - White RAL		White NC	White NC
	Additional Electric Heater	kW	3	3
	Adjustable Thermostat	°C	60-90	60-90
Characteristics of Exchanger	Exchanger Type		Double	Double
	Material Exchanger		LDX 2101 - Stainless Steel	LDX 2101 - Stainless Steel
	Maximum Water Temperature	°C	80 (With an Heat Pump)	80 (With an Heat Pump)
Hydraulic Connections - Heat Pump	THERMA V Entry	mm	25	25
	THERMA V Exit	mm	25	25
Hydraulic Connections - Domestic Hot Water Tank	City Water Entry	mm	22	22
	Hot Water Exit	mm	22	22
Electric Connection	Supply	ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50

MANDATORY OPTIONAL ACCESSORIES

Domestic Hot Water Tank Installation Kit	PHLTA	PHLTA
--	-------	-------

PIPING ACCESSORIES LINE-UP

SINGLE SPLIT	MULTI SPLIT	MULTI V	ETC
Y Branch and Header Branch (Synchro)  2 Units PMUB11A 3 Units PMUB111A 4 Units PMUB1111A	Branch Distributor  PMBD3620 PMBD3630 PMBD3640 Y Branch and Branch Kit  2 Units PMBL3620 PMBL5620 2 Units PMBL1203F0	Heat Recovery Unit  PRHR022 PRHR032 PRHR042 Y Branch and Header Branch 	Refrigerant Charging Kit  PRAC1 Stopper Valve  PRVT120 PRVT780 PRVT980 Drain Hose  PHDHA05T PHDHA07T PHDHA05B PHDHA07B

Mechanical Accessories Line up and Application

Model name	SINGLE SPLIT	MULTI	MULTI V	Remark
Y Branch and Header Branch (Synchro)	O	-	-	-
Branch Distributor (MULTI)	-	O	-	MULTI F DX systems
Y Branch and Branch Kit (MULTI)	-	O	-	MULTI F DX systems
Heat Recovery Unit (MULTI V)	-	-	O	MULTI V Sync II / MULTI V III Heat Recovery / MULTI V IV Heat Recovery
Y Branch and Header Branch (MULTI V)	-	-	O	Various type of MULTI V Series

Y BRANCH AND HEADER BRANCH SYNCHRO

Refrigerant distribution channel

2 Units

PMUB11A

3 Units

PMUB111A

4 Units

PMUB1111A



Gas Pipe

Liquid Pipe

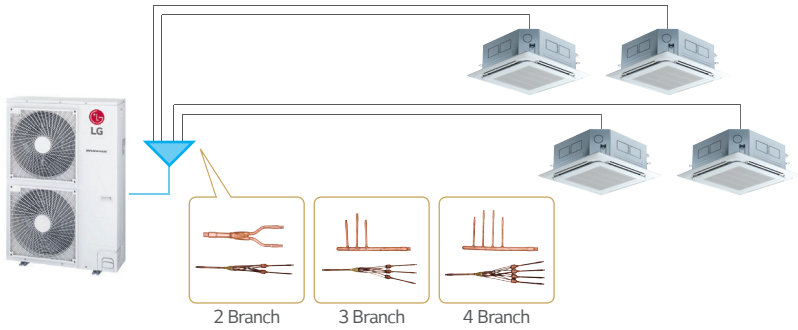
Features

- Various Y Branch pipes of different capacities make installation easier
- Y Branch and header branch for both gas and liquid are provided
- Insulation material is also provided for covering the branches

Models Applied

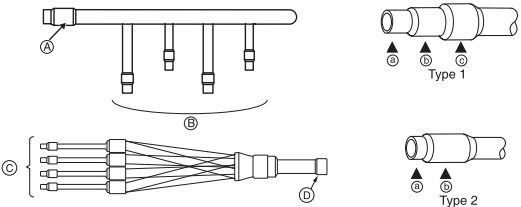
- H-inverter : 10.0 / 12.5 / 13.4kw
- Standard inverter : 12.5 / 14.0 / 15.0 / 20.0 / 25.0kw

Application



Accessory Model Name

Model name	SINGLE SPLIT	Remark
2 Units	PMUB11A	50:50 (1:1)
3 Units	PMUB111A	33:33:33 (1:1:1)
4 Units	PMUB1111A	25:25:25:25(1:1:1:1)



	a	b	c	Type
A	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø25.4 (1)	1
B	Ø9.52 (3/8) Ø12.7 (1/2)	Ø12.7 (1/2) Ø15.88 (5/8)	-	2
C	Ø6.35 (1/4)	Ø9.52 (3/8)	-	2
D	Ø9.52 (3/8)	Ø12.7 (1/2)	-	2

BRANCH DISTRIBUTOR DISTRIBUTOR BOX

Effective way of distributing refrigerant

PMBD3620
PMBD3630
PMBD3640



PMBD3620

PMBD3630

PMBD3640

Features

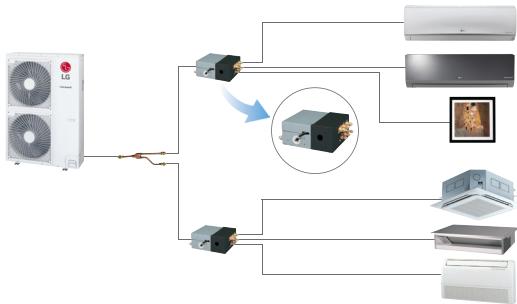
- Distribution of refrigerant to various indoor units
- 3 models (2, 3, 4 Indoor units)
- Consists of LEVs inside it
- Controlling PCB inside the unit
- Internally insulated (Prevents any chances of drainage)
- Flare joints for easy and clean installation
- Compact design (Low height)
- Flexible installation

Models Applied

- MULTI F DX systems (Refer to PDB for applicable models)

Parts Included

- BD (Banch Distributor) unit (1EA)
- Brackets (4EA)
- Screws (8EA)
- Installation Manual (1EA)



Specifications

Model name			PMBD3620	PMBD3630	PMBD3640
Connectable Indoor Units	Number of Indoor Units		1~2	1~3	1~4
Capacity	(Btu/hr)		5k / 7k / 9k / 12k / 18k / 24k	5k / 7k / 9k / 12k / 18k / 24k	5k / 7k/9k / 12k / 18k / 24k
Casing Colour			Paintingless	Paintingless	Paintingless
Power Source	Ø / V / Hz		1 / 220-240 / 50	1 / 200-240 / 50	1 / 200-240 / 50
Power Consumption	(W)		10	10	10
Running Current	(A)		0.05	0.05	0.05
Dimensions	(W x H x D)	(mm)	302 x 143 x 252	302 x 143 x 252	302 x 143 x 252
Packing Dimensions	(W x H x D)	(mm)	422 x 202 x 300	422 x 202 x 300	422 x 202 x 300
Net Weight			4.8	4.9	5.0
Connecting Cable	Indoor Unit No. x mm²		4 x 0.75	4 x 0.75	4 x 0.75
	Outdoor Unit No. x mm²		4 x 0.75	4 x 0.75	4 x 0.75
Piping Connection (Outdoor Unit)	liquid	(mm)	9.52	9.52	9.52
	Gas	(mm)	19.05	19.05	19.05
Piping Connection (Indoor Unit)	Liquid	(mm)	6.35 x 2	6.35 x 3	6.35 x 4
	Gas	(mm)	9.52 x 2	9.52 x 3	9.52 x 4
Parts	Hanger	(EA)	4	4	4
	Screw	(EA)	8	8	8
	Manual	(EA)	1	1	1

Y BRANCH AND BRANCH KIT MULTI F DX

Refrigerant distribution channel

2 Units
PMBL3620
PMBL5620
2 Units
PMBL1203F0



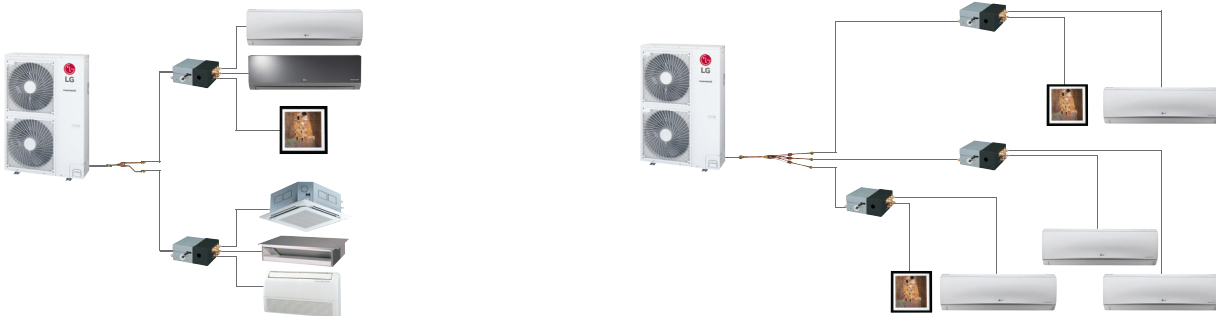
Features

- Y Branch and Branch kit make Multi F DX installation easier
- Y Branch and Branch kit for both gas and liquid are provided
- Insulation material is also provided for covering the branches

Models Applied

- MULTI F DX systems (refer to PDB for applicable models)

Application



Parts Included

- Y Branch for gas side and liquid side (1set)
- Installation manual (1EA)

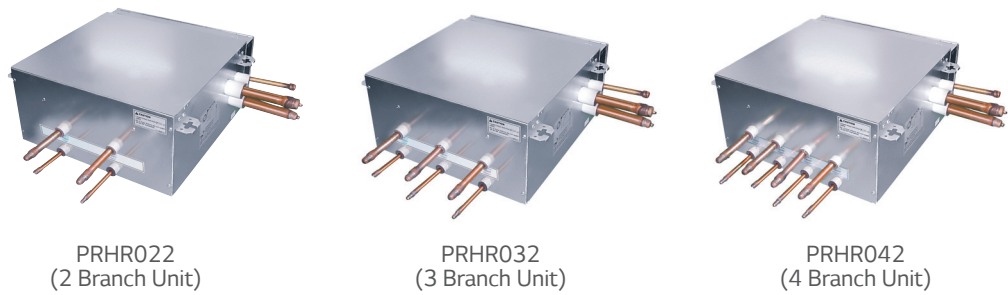
Accessory Model Name

Model Name	No. of Branch Distribution Units	Applicable Model	Specifications	
			Gas	Liquid
PMBL3620	2 units	Only 3ø, 36k Btu/h		
PMBL5620	2 units	1ø, 3ø		
PMBL1203F0	3 units	1ø, 3ø		

(Unit : mm)

HEAT RECOVERY UNIT

PRHR022
PRHR032
PRHR042



Features

- Max. 32 indoor units can be connected (Max. 8 indoor units per branch)
- It is easy to install due to the automatic search algorithm for piping detection
- Subcooling cycle in HR unit makes the system efficiency maximum

Models Applied

- MULTI V IV Heat Recovery
 - MULTI V III Heat Recovery
 - MULTI V SYNC II
 - MULTI V SYNC
- MULTI V WATER IV Heat Recovery
 - MULTI V WATER II Heat Recovery


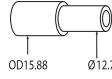

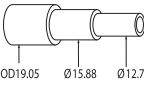
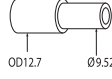
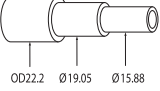
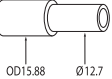
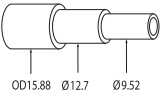
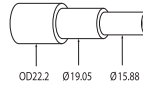

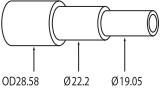

Specifications

Model name			PRHR022	PRHR032	PRHR042	
Number of Branch		EA	2	3	4	
Maximum Connectable Capacity of Indoor Units (Per branch / unit)		kW	16 / 32	16 / 48	16 / 58	
Maximum Number of Connectable Indoor units per Branch		EA	8	8	8	
Nominal Input	Cooling	kW	0.026	0.040	0.040	
	Heating	kW	0.026	0.040	0.040	
Net. Weight		kg	18	20	22	
Dimensions (W x H x D)		mm	801 x 218 x 617	801 x 218 x 617	801 x 218 x 617	
Piping connections	Indoor Unit	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	
		Gas	mm (inch)	15.88 (5/8)	422 x 202 x 300	422 x 202 x 300
	Outdoor Unit	Liquid	mm (inch)	9.52 (3/8)	15.88 (5/8)	15.88 (5/8)
		Low pressure	mm (inch)	22.2 (7/8)	28.58 (11/8)	28.58 (11/8)
		High Pressure	mm (inch)	19.05 (3/4)	22.2 (7/8)	22.2 (7/8)
Power supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	

Parts Included

- HR unit (1EA)
 - Hanging bolts M10 or M8 (4EA)
 - Nut M8 or M10 (8EA)
- Washers M10 (8EA)
 - Reducers

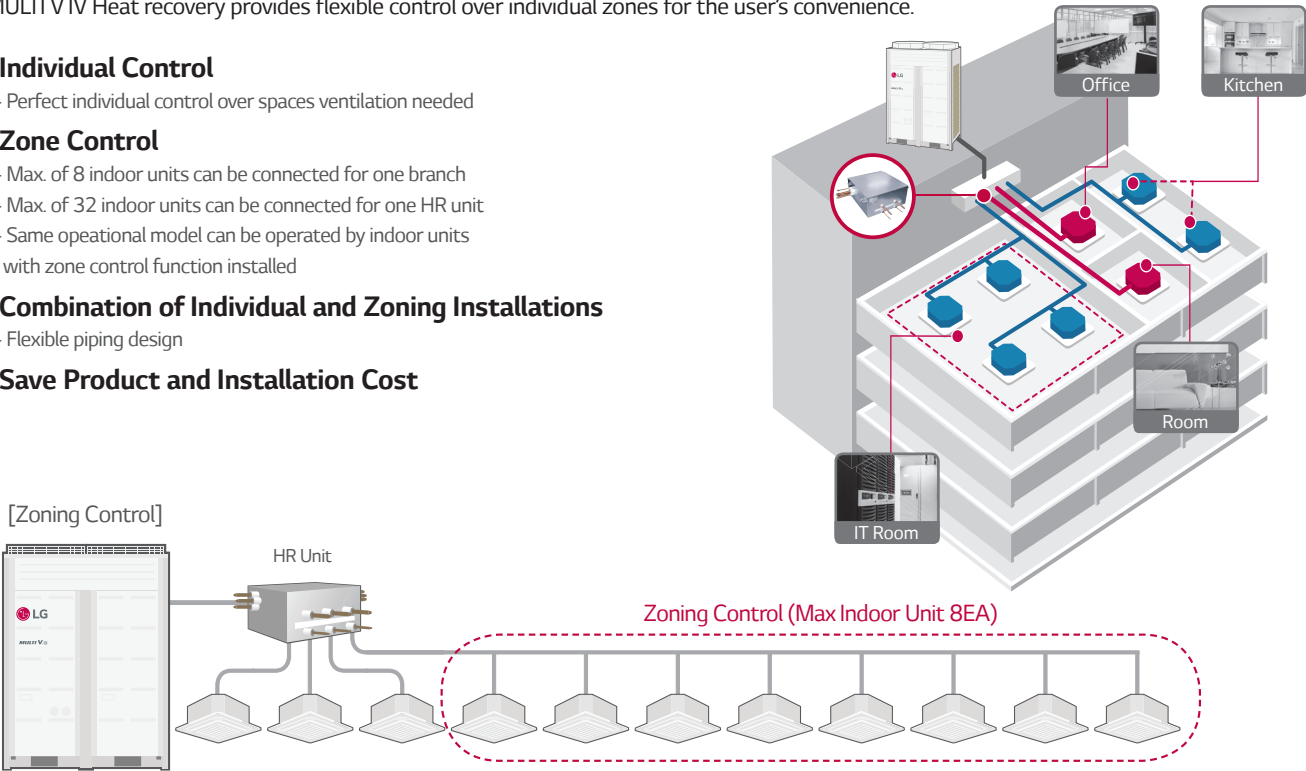
Reducers for Indoor Unit and HR Unit

Model Name		Liquid	High pressure	Low pressure
Indoor Unit Reducer				
HR Unit Reducer	PRHR022		 	 
	PRHR032 / PRHR042		 	 

Convenient Free Zoning

MULTI V IV Heat recovery provides flexible control over individual zones for the user's convenience.

- **Individual Control**
 - Perfect individual control over spaces ventilation needed
- **Zone Control**
 - Max. of 8 indoor units can be connected for one branch
 - Max. of 32 indoor units can be connected for one HR unit
 - Same operational model can be operated by indoor units with zone control function installed
- **Combination of Individual and Zoning Installations**
 - Flexible piping design
- **Save Product and Installation Cost**



Y BRANCH AND HEADER BRANCH (MULTI V™)

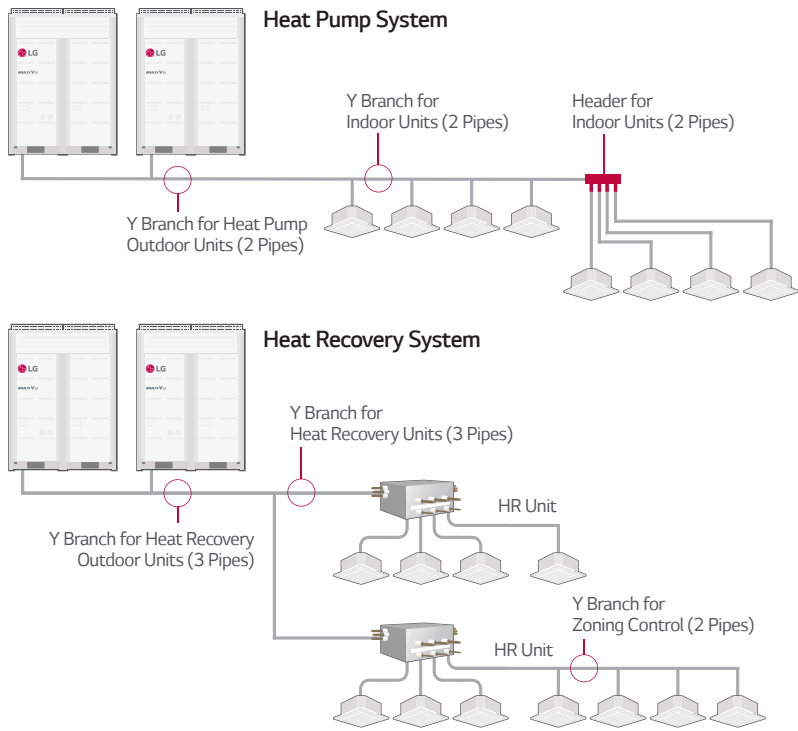
For refrigerant distribution of indoor units



Features

- Various Y Branch pipe of different capacities make MULTI V installation much easier.
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

Piping Diagram



Models Applied

- MULTI V IV
- MULTI V S
- MULTI V WATER IV
- MULTI V WATER S
- MULTI V III, MULTI V PLUS II, MULTI V PLUS
- MULTI V MINI
- MULTI V WATER II
- MULTI V SPACE II

Details of Model Name

[Header Branch]

• R410A

(Unit : mm)

Model Name	Gas Pipe	Liquid Pipe
4 Branch / ARBL054		
7 Branch / ARBL057		
4 Branch / ARBL104		
7 Branch / ARBL107		
10 Branch / ARBL1010		
10 Branch / ARBL2010		

PIPING ACCESSORIES

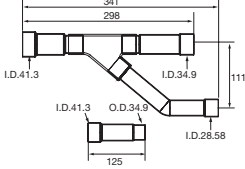
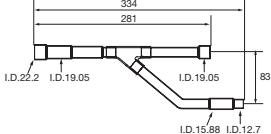
Y Branch pipe for connection of outdoor units

[Heat Pump]

- **R410A** MULTI V IV, MULTI V III, MULTI V WATER IV, MULTI V WATER II

(Unit : mm)

2 Outdoor Units	
Model Name	
	<div> <div>Low Pressure Gas Pipe</div> </div>
ARCNN21	<div> <div>Liquid Pipe</div> </div>

3 Outdoor Units		
Model Name	Low Pressure Gas Pipe	Liquid Pipe
ARCNN31	 <p>Diagram of Low Pressure Gas Pipe for ARCNN31. The main horizontal pipe has a total length of 341 and an inner diameter (I.D.) of 41.3. It branches into two vertical pipes, each with an I.D. of 34.9. The distance between the centers of these two vertical pipes is 298. The vertical distance from the horizontal pipe to the center of the lower vertical pipe is 111. A separate section of the lower vertical pipe is shown with an outer diameter (O.D.) of 34.9 and an inner diameter (I.D.) of 28.58, with a total length of 125.</p>	 <p>Diagram of Liquid Pipe for ARCNN31. The main horizontal pipe has a total length of 334 and an inner diameter (I.D.) of 22.2. It branches into two vertical pipes, each with an I.D. of 19.05. The distance between the centers of these two vertical pipes is 281. The vertical distance from the horizontal pipe to the center of the lower vertical pipe is 83. A separate section of the lower vertical pipe is shown with an inner diameter (I.D.) of 15.88 and a total length of 12.7.</p>

4 Outdoor Units		
Model Name	Low Pressure Gas Pipe	Liquid Pipe
ARCNN41		

[Heat Recovery]

- **R410A** MULTI V IV Heat Recovery, MULTI V III Heat Recovery, MULTI V WATER IV Heat Recovery, MULTI V WATER II Heat Recovery

Unit : mm)

2 Outdoor Units			
Model Name	Low Pressure Gas Pipe	Liquid Pipe	High Pressure Gas Pipe
ARCNB21			

2 Outdoor Units			
Model Name	Low Pressure Gas Pipe	Liquid Pipe	High Pressure Gas Pipe
ARCNB31			

4 Outdoor Units			
Model Name	Low Pressure Gas Pipe	Liquid Pipe	High Pressure Gas Pipe
ARCNB41			

Y Branch pipe for connection of outdoor units

- **R410A** MULTI V IV, MULTI V III, MULTI V PLUS II, MULTI V PLUS, MULTI V S, MULTI V MINI, MULTI V SPACE II, MULTI V WATER IV, MULTI V WATER S, MULTI V WATER II

(Unit : mm)

(Unit : mm)

(Unit : mm)

(Unit : mm)

(Unit : mm)

- **R410A** MULTI V IV Heat Recovery, MULTI V III Heat Recovery, MULTI V WATER IV Heat Recovery, MULTI V WATER II Heat Recovery

(Unit : mm)

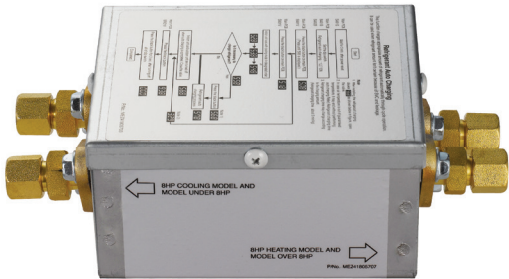
(Unit : mm)

(Unit : mm)

REFRIGERANT CHARGING KIT

Recharging refrigerant after a pump down or when refrigerant is either insufficient or excessive

PRAC1

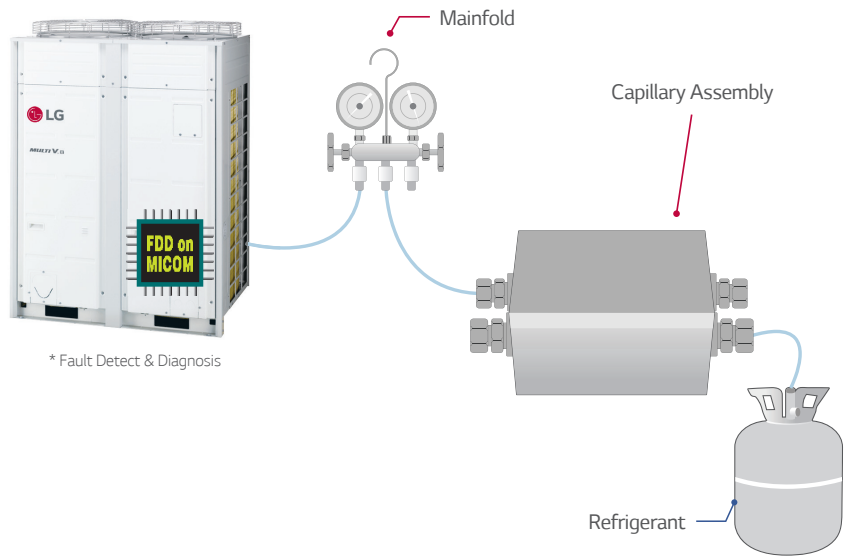


Features

- Arrange manifold, capillary assembly, refrigerant vessel and scale
- Connect manifold to the gas pipe service valve of outdoor unit as shown in the figure
- Connect manifold and capillary tube. Use designated capillary assembly only If designated capillary assembly isn't used, the system may get damaged
- Connect capillary and refrigerant vessel
- Purge hose and manifold
- After "568" is displayed, open the valve and charge the refrigerant

Models Applied

- MULTI V III Heat Pump
- MULTI V III Heat Recovery
- MULTI V PLUS II
- MULTI V SYNC II



STOPPER VALVES

Under 1 / 2 (inch)

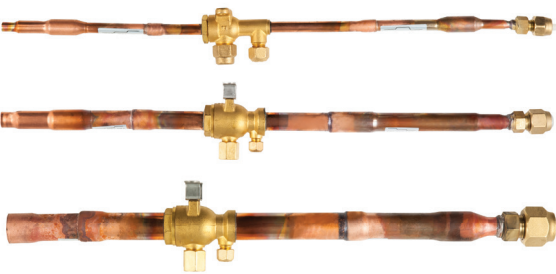
PRVT120

Under 7 / 8 (inch)

PRVT780

Under 9 / 8 (inch)

PRVT980



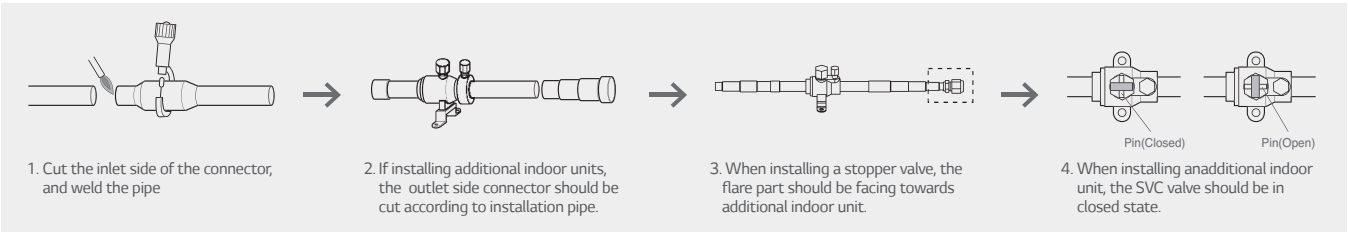
Features

Model Name	Specification
PRVT120	
PRVT780	
PRVT980	

Usage

- This unit can be applied for the additional indoor unit's installation.
- This unit can be applied for each indoor unit's service.

Installation

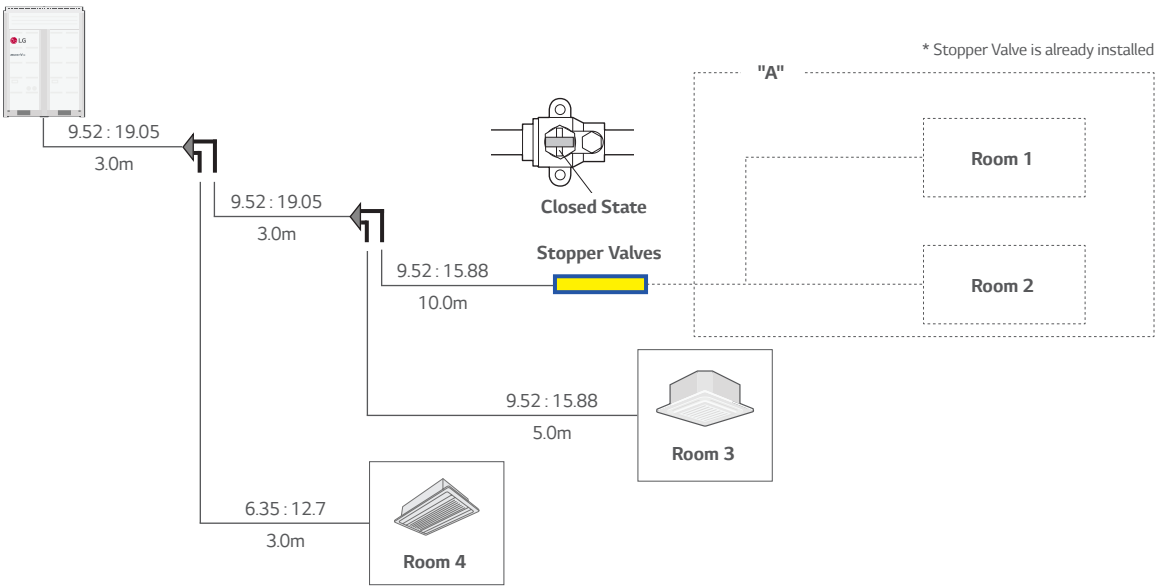


* When welding, service valve should be wrapped by wet cloth.

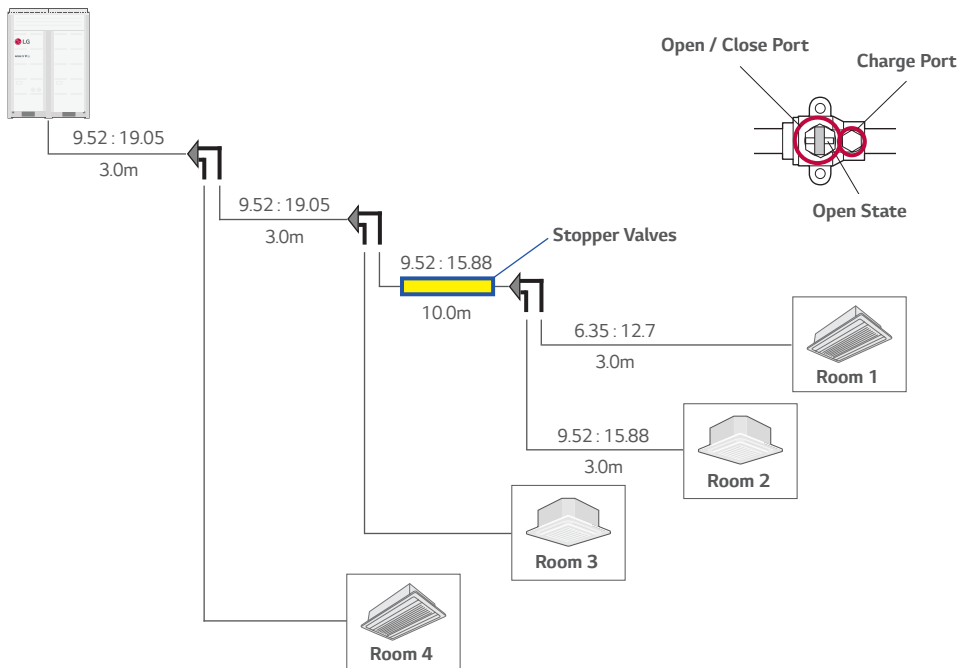
STOPPER VALVES

Details of Model Name

• **Case1**
(Room 3 & 4 : In use / Room 1 & 2 : Need to install indoor units)



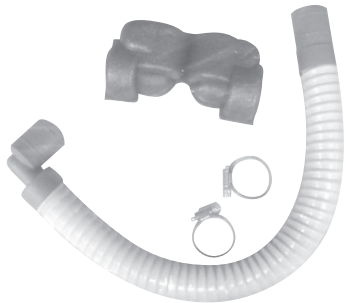
- In case of installation of additional indoor unit, refrigerant of used indoor unit must be discharged. (Room 3 & Room 4)
- If stopper valve is already installed, you can install additional indoor unit without refrigerant loss from the entire system.
- After installation of additional indoor unit, you just need refrigerant charging for "A" section.
- Then, open the Stopper Valve.



DRAIN HOSE

Easy drain installation

PHDHA05T
PHDHA07T
PHDHA05B
PHDHA07B

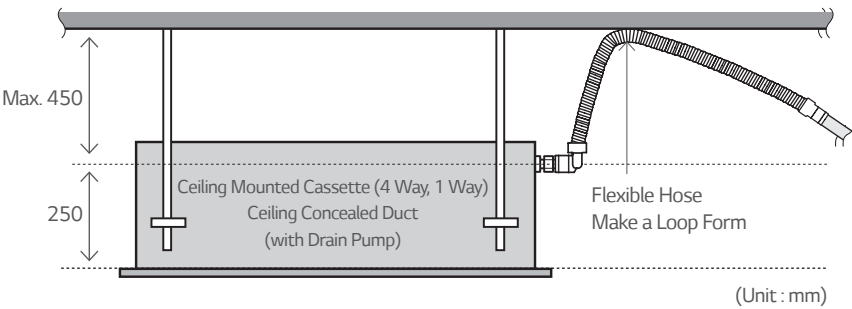


Features

- It reduces the installation time by over 40% with elbow-less drain hose.
- Midget drain pump covers maximum 800mm high, featuring easy piping installation.

Models Applied

- Ceiling Mounted Cassette and Ceiling Concealed Duct (refer to PDB for applicable model)



































Accessory Model Name

Model Name	Length	Quantity
PHDHA05T	500mm	30EA
PHDHA07T	700mm	30EA
PHDHA05B	500mm	5EA
PHDHA07B	700mm	5EA



































COMPATIBILITY TABLE

●: Compatibility is available ▲: Wired remote controller is required X: Compatibility is unavailable ◎: Compatibility is available but more detailed functions refer to "MULTI V INDOOR UNIT LINE UP & FEATURES OVERVIEW". (Page 90 - 91)






















Product			Controller		Premium	Standard II		Simple		Simple for Hotel		Wireless	Dry Contact				Wi-Fi
																	
					PREMTA000 PREMTA000A PREMTA000B	PREMTB801	PREMTB001	PQRCVCLQ	PQRCVCQW	PQRCHCAQ	PQRCHCAQW	PQWRH00FDB	Simple Dry Contact PDRYCB000	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB300	For Modbus PDRYCB500	LG-IR-WF-1
MULTI V	Ceiling Mounted Cassette	 4 Way	ARNU-C4	●		◎		●		●		●	●	●	●	●	●
		 2 Way / 1 Way	ARNU-C4	●		◎		●		●		●	●	●	●	●	●
	Ceiling Concealed Duct	 High Sensible	ARNU-A4	●		◎		●		●		▲	●	●	●	●	●
		 High Statics	ARNU-A4	◎		◎		●		●		▲	●	●	●	●	●
		 Mid Statics															
		 Low Statics	ARNU-G4	◎		◎		●		●		▲	●	●	●	●	●
		 Built-in	ARNU-G4	◎		◎		●		●		▲	●	●	●	●	●
	FAU (Fresh Air intake Unit)	 FAU	ARNU-Z4	●		●		●		●		▲	●	●	●	●	●
	Convertible & Ceiling Suspended Unit		ARNU-A2	◎		◎		●		●		●	●	●	●	●	●
	Console		ARNU-A4	●		●		●		●		●	●	●	●	●	●
	Floor Standing Unit		ARNU-A4	●		●		●		●		●	●	●	●	●	●
			ARNU-U4					●		●		●	●	●	●	●	●
	Wall Mounted Unit		ARNU-A4	●		●		●		●		●	●	●	●	●	●
			ARNU-*4 ¹⁾	●		●		●		●		●	●	●	●	●	●
			ARNU-L4 ARNU-A4	◎		◎		●		●		●	●	●	●	●	●
	HYDRO KIT ²⁾												●	X	X	X	X
	Ventilation	 Energy Recovery Ventilator		●		●		X		X		X	●	X	X	X	X
		 Energy Recovery Ventilator with DX coil		●		●		X		X		X	●	●	●	●	X
	AHU Communication Kit			●		●		●		●		▲	●	●	●	●	X

1) Artcool Mirror: Mirror (R) / Silver (V) / White (W)
2) It has a separate remote controller

●: Compatibility is available ▲: Wired remote controller is required X: Compatibility is unavailable

Product				Model	Controller						Dry Contact				Wi-Fi		
					Premium	Standard II		Simple		Simple for Hotel		Wireless					
																	
				PREMTA000 PREMTA000A PREMTA000B	PREMTB801	PREMTB001	PQRCVCLQ	PQRCVCDQW	PQRCHCAQ	PQRCHCA0QW	PQWRHQFDB	Simple Dry Contact PDRYCB000	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB300	For Modbus PDRYCB500	LG-IR-WF-1	
SINGLE SPLIT	H-Inverter	Ceiling Mounted Cassette		●		●		●		●		●	●	●	●	●	
		Ceiling Concealed Duct		●		●		●		●		●	●	●	●	●	●
		Ceiling Suspended Unit		●		●		●		●		●	●	●	●	●	●
	Standard Inverter	Ceiling Mounted Cassette		●		●		●		●		●	●	●	●	●	●
		Ceiling Concealed Duct	High 	●		●		●		●		●	●	●	●	●	●
			Mid 	●		●		●		●		●	●	●	●	●	●
			Low 	●		●		●		●		●	●	●	●	●	●
		Ceiling Suspended Unit		●		●		●		●		●	●	●	●	●	●
		Console		●		●		●		●		●	●	●	●	●	●
		Wall Mounted Unit		●		●		●		●		●	●	●	●	●	●
		Floor Standing Unit		●		●		●		●		X	●	●	●	●	●
MULTI SPLIT	Ceiling Mounted Cassette	4 Way		●		●		●		●		●	●	●	●	●	
		1 Way		●		●		●		●		●	●	●	●	●	●
	Ceiling Concealed Duct	Mid		●		●		●		●		▲	●	●	●	●	●
		Low		●		●		●		●		▲	●	●	●	●	●
	Convertible & Ceiling Suspended Unit			●		●		●		●		●	●	●	●	●	●
	Console			●		●		●		●		●	●	●	●	●	●
	Wall Mounted Unit		●		●		●		●		●		●	●	●	●	●
		●		●		●		●		●		●	●	●	●	●	
THERMA V	Split	Mid Temp.									●	X	X	X	X	X	
		High Temp.									●	X	X	X	X	X	X
	Monobloc										●	X	X	X	X	X	X

INDOOR UNIT LINE-UP

kW			1.5	2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	14.1	15.8	22.4	28.0
Type	Btu / h		5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	76k	96k
4 th Generation Wall Mounted Unit	ARTCOOL Gallery 																	
	ARTCOOL Mirror 																	
	Standard 											NEW	NEW					
4 th Generation Ceiling Mounted Cassette	4 Way Cassette (570 x 570) 							NEW										
	4 Way Cassette (840 x 840) 											NEW				NEW		
	2 Way Cassette 																	
	1 Way Cassette 																	
4 th Generation Ceiling Concealed Duct	Mid / High Statics 																	
	Low Statics 																	
	Built-in 																	
	High Sensible 																	
4 th Generation Fresh Air Intake Units 																		
2 nd Generation Ceiling & Floor Convertible Unit 																		
2 nd Generation Ceiling suspended unit 																		
4 th Generation Console 																		
4 th Generation Floor standing Unit	Floor Standing Unit with Case 																	
	Floor Standing Unit without Case 																	
2 nd Generation HYDRO KIT	Low Temperature 																	
	High Temperature 																	
2 nd Generation Energy Recovery Ventilator with DX coil	with Humidifier 																	
	without Humidifier 																	

FEATURES OVERVIEW

Energy Monitoring	2 Set point	Occupied / Unoccupied Scheduling Function	Group Control	Test Run (Cooling)	Test Run (Heating)	Model Information Monitoring	Auto Addressing	Refrigerant Leakage Detection	Thermo On / Off Range Setting (Cooling)	Thermo On / Off Range Setting (Heating)	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	1 point External Input (On / Off control)	Filter Sign (Remaining Time)	Auto restart function Disable / Enable
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
				•						•				
				•						•				
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
				•	•				•	•				
				•	•					•				

1) If 4th generation indoors are connected to MULTIV WATER S outdoor, some of function will not be activated. 2) If 4th generation indoors are combined to 2nd generation indoors, some of function will not be activated.
➔ More detailed information, refer to the "MULTI V INDOOR COMPATIBILITY" (page 138-139)

MEMO