



LG HVAC CONTROL & ACCESSORIES 2016

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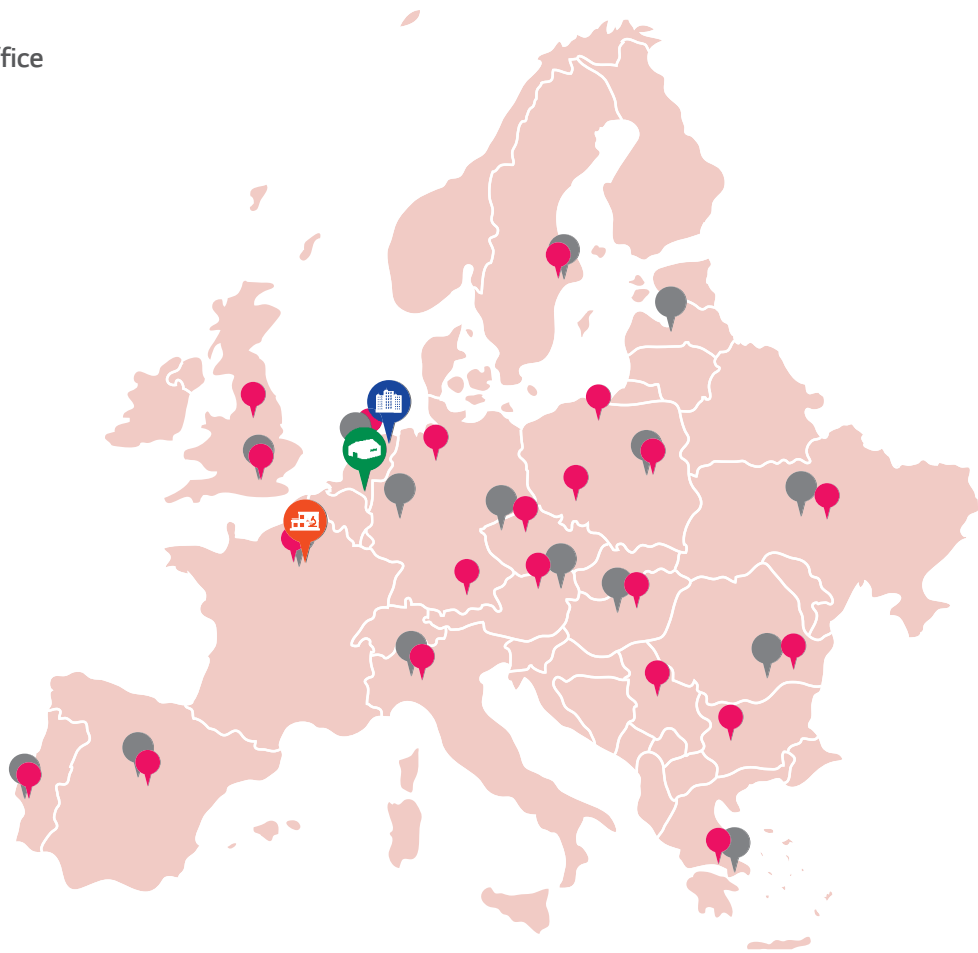
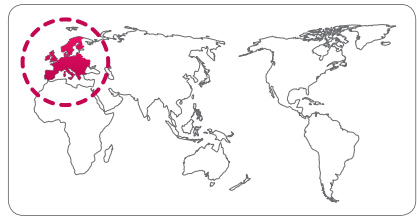
LG HVAC SOLUTION

**LG Electronics**  
<http://www.lg.com>  
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# EUROPE SALES INFRASTRUCTURE

- Europe B2B Regional Head Office
- National Sales Office
- Air Conditioning Academy
- European Distribution Center
- Europe Energy Lab
- Production Site



# 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 provide 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 and adding chillers, VRF systems, and building management systems (BMS) 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 invaluable 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 meet all the requirements regarding energy efficiency and environmental demands, LG has been running Energy Labs. 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.



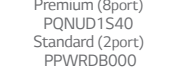
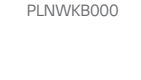
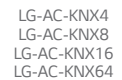
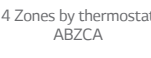
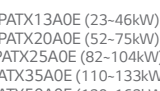
## European Air Conditioning Distribution Center

LG's European Air Conditioning Distribution Center is located in Oosterhout, the Netherlands. Supplying and delivering products to 15 countries in 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 ~ 8196                                                                               |
| Premium                                                                                                                    | Standard                                                                                       | Simple                                                                                                                  |                                                                                                 | AC Ez                                                                                           | AC Smart IV                                                                                       | AC Manager IV                                                                                    |
| <br>PREMTA000<br>PREMTA000A<br>PREMTA000B | <br>PREMTB001 | <br>PQRCVCL0QW                         | <br>PQWRHQ0FDB | <br>PQCSZ250S0 | <br>PACS4B000  | <br>PACM4B000 |
|                                                                                                                            |                                                                                                |                                                                                                                         | Wi-Fi Controller *                                                                              | Indoor Unit ~ 64                                                                                | Indoor Unit ~ 256                                                                                 |                                                                                                  |
|                                                                                                                            | <br>PREMTB01 | <br>PQRCVCL0Q                         |                                                                                                 | <b>NEW</b> AC Ez Touch                                                                          | ACP IV                                                                                            |                                                                                                  |
|                                                                                                                            |                                                                                                | <br>PQRCHCA0QW<br>(Simple for Hotel) |                                                                                                 | <br>PACEZB000 | <br>PACP4B000 |                                                                                                  |
|                                                                                                                            |                                                                                                | <br>PQRCHCA0Q<br>(Simple for Hotel)  |                                                                                                 |                                                                                                 |                                                                                                   |                                                                                                  |

LINE-UP

| Centralized Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Other integration device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| System Integration Device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Indoor Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Outdoor Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AHU Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Facility Integrator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Gateway for Protocol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PI-485                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Dry Contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Control Accessory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <br>PDI<br>(Power Distribution Indicator)<br><br><br>Premium (8port)<br>PQNUD1S40<br>Standard (2port)<br>PPWRDB000<br><br><br>ACS IO Module<br>(Input / Output Module)<br><br><br>PEXPMB000<br><br><br>DO Kit<br>(Digital Output Kit)<br><br><br>PQNFP00T0 | <br>ACP BACnet<br><br><br>PQNFB17C0<br><br><br>ACP Lonworks<br><br><br>PLNWKB000<br><br><br>KNX Gateway*<br><br><br>LG-AC-KNX4<br>LG-AC-KNX8<br>LG-AC-KNX16<br>LG-AC-KNX64 | <br>PI-485<br><br><br>For SINGLE /<br>MULTI / THERMA V<br>PMNFP14A1<br><br><br>For Indoor Unit<br>(Air-Conditioner, ECO V)<br>PHNFP14A0<br><br><br>For Indoor Unit<br>(Air-Conditioner, ECO V)<br>PSNFP14A0 | <br>Simple Dry Contact<br>PDRYCB000 (With Case)<br><br><br>2 Points Dry Contact<br>(For Setback)<br>PDRYCB400<br><br><br>Dry Contact for<br>Thermostat<br>PDRYCB300<br><br><br>For Modbus<br>PDRYCB500 | <br>Group Control Wire<br><br><br>PZCWRCG3<br><br><br>Remote<br>Temperature Sensor<br><br><br>PQRSTA0<br><br><br>Zone Controller<br><br><br>4 Zones by thermostat<br>ABZCA<br><br><br>For Modbus<br>PDRYCB500 | <br>IO Module<br>(Input / Output Module)<br><br><br>Demand controller<br>for MULTI V IV<br>PVDSMN000<br><br><br>Low Ambient Kit<br><br><br>For MULTI V IV<br>PRVC2<br><br><br>Dry Contact for<br>Demand Control<br><br><br>Demand controller for<br>MULTI V III<br>PQDSBCDVM0<br><br><br>Variable Water Flow<br>Control kit<br><br><br>For MULTI V WATER IV<br>PWFCN000<br><br><br>Cool / Heat Selector<br><br><br>PRDSBM | <br>Communication Kit<br><br><br>Return / Room Air Control<br>PUCKA0 (For SINGLE SPLIT)<br>PRCKA1 (For MULTI V)<br><br><br>Supply Air Control by DDC<br>PUDCA0 (For SINGLE SPLIT)<br>PRDCA0 (For MULTI V)<br><br><br>Control kit<br><br><br>PRCKD21E<br>PRCKD41E<br><br><br>EEV Kit<br><br><br>PRLK048A0 (28.1 kW)<br>PRLK096A0 (56.2 kW)<br><br><br>Expansion Kit<br><br><br>PATX13A0E (23-46kW)<br>PATX20A0E (52-75kW)<br>PATX25A0E (82-104kW)<br>PATX35A0E (110-133kW)<br>PATX50A0E (139-163kW) |

# INDIVIDUAL CONTROL



# INDIVIDUAL CONTROL

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Premium Wired Remote Controller
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Standard Wired Remote Controller
- 11

Simple Wired Remote Controller
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Wireless Remote Controller
- 13

Wi-Fi Controller

## Remote Controller Line Up

| Model Name                        | <div><br/>PREMTA000<br/>PREMTA000A<br/>PREMTA000B</div> | <div><br/>PREMTB001<br/>PREMTBB 01</div> | <div><br/>PQRCVCL0QW<br/>PQRCVCL0Q<br/>PQRCHCA0QW<br/>PQRCHCA0Q</div> | <div><br/>PQWRHQ0FDB</div> | <div><br/>LG-IR-WR-1<sup>1)</sup></div> |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| On / Off                          | •                                                                                                                                            | •                                                                                                                             | •                                                                                                                                                          | •                                                                                                               | •                                                                                                                            |
| Fan speed control                 | •                                                                                                                                            | •                                                                                                                             | •                                                                                                                                                          | •                                                                                                               | •                                                                                                                            |
| Temperature setting               | •                                                                                                                                            | •                                                                                                                             | •                                                                                                                                                          | •                                                                                                               | •                                                                                                                            |
| Mode change                       | •                                                                                                                                            | •                                                                                                                             | •                                                                                                                                                          | •                                                                                                               | •                                                                                                                            |
| Additional mode setting           | •                                                                                                                                            | •                                                                                                                             | •                                                                                                                                                          | •                                                                                                               | -                                                                                                                            |
| Auto swing                        | •                                                                                                                                            | •                                                                                                                             | •                                                                                                                                                          | •                                                                                                               | •                                                                                                                            |
| Vane control (Louver direction)   | •                                                                                                                                            | •                                                                                                                             | •                                                                                                                                                          | •                                                                                                               | -                                                                                                                            |
| E.S.P (Exteranal 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                                                                                                                         | -                                                                                                                             | -                                                                                                                                                          | -                                                                                                               | -                                                                                                                            |

\* PQRCHCA0QW / PQRCHCA0Q doesn't offer this function  
\*\* Centralized control (PACS4B000 / PACP4B000 / PQNFB17C0 / PLNWK000) and PDI (PQNUD1540 / PPWRDB000) should be installed for this function  
<sup>1)</sup> 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 <sup>1)</sup>  
PREMTA000A <sup>2)</sup>  
PREMTA000B <sup>3)</sup>

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

## Features<sup>1)</sup>

- **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**

- **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 (Exteranal 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                                                                                                                                      |  |
| Blacklight                          | •                                                                                                                                                     |  |
| Home Leave                          | 2 set points control                                                                                                                                  |  |

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

\*\* For ceiling type duct

<sup>1)</sup> Indoor unit should have functions requested by the controller



## Energy Management

### Self Energy Management

After it gather 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.

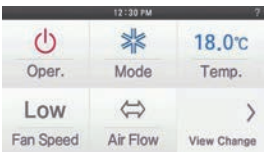
## User Friendly Design

### Intuitive UI & GUI Design

It is more easy to use and control various functions.



Standard Mode



Simple Mode

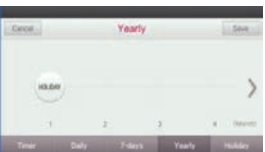
### Display Configuration

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

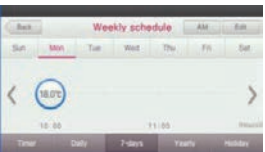
## Enhanced Schedule Function

### 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

### Easy Pattern Schedule

It is possible to embody various schedules as pattern setting.



Weekly Schedule Pattern

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

## 2 Set Points Control

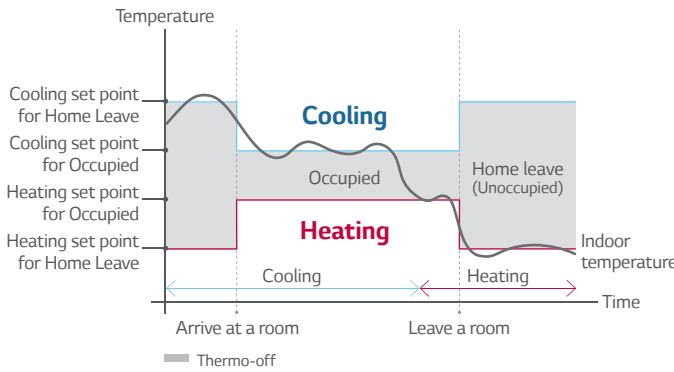
### 2 Set Points Control <sup>1)</sup>

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



<sup>1)</sup> 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

# STANDARD WIRED REMOTE CONTROLLER

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

Standard II

PREMTB001 (White)  
PREMTBB01 (Black)



## Features<sup>1)</sup>

| 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 (Exteranal 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 (PQNUD1S40 / PPWRDB000) should be installed for this function  
<sup>1)</sup> 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)



## Features<sup>1)</sup>

| Model Name                          | PQRCVCLOQW / PQRCVCLOQ                            | PQRCHCA0QW / PQRCHCA0Q                            |
|-------------------------------------|---------------------------------------------------|---------------------------------------------------|
| On / Off                            | •                                                 | •                                                 |
| Fan speed control                   | •                                                 | •                                                 |
| Temperature setting                 | •                                                 | •                                                 |
| Mode change                         | Cooling / Heating / Auto / Dehumidification / Fan | Cooling / Heating / Auto / Dehumidification / Fan |
| Auto swing                          | •                                                 | •                                                 |
| Vane control (Louver direction)     | •                                                 | •                                                 |
| E.S.P (Exteranal 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  
<sup>1)</sup> 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 CONTROLLER<sup>1)</sup>

LG-IR-WF-1



## Models Applied

- Connectable with the indoor unit having IR receiver
- Control and monitor :  
On / Off Mode, Set Temp, Room Temp, Fan Speed
- Power supply includes EU-UK-US-AU heads
- Easy to install : Wall or desktop mounted
- Attractive design - On / Off status and mode indicated by LED light
- 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                                                                                                                                                                                           |
| Colour                | 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)<br>CE Conformity to EMC Directive (2004 / 108 / EC) and Low-voltage Directive (2006 / 95 / EC)<br>EN 60950-1 / EN 301489-1 v1.8.1 / EN 300328 |

## Overview

### Case 1) Connection with indoor units with IR receiver



### Case 2) Connection with duct type indoor units



<sup>1)</sup> This product is provided by INTESIS. For more information, please contact INTESIS directly

# 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 PACEZB000                                                                         | PQCSZ250S0                                                                            | PACS4B000                                                                             | PQCP4B000                                                                             | 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                                                        | Web                                                                                   | -                                                                                     | Web                                                                                   | Web                                                                                   | Remote                                                                                |
| Auto changeover / Setback                                         | •                                                                                     | -                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     |
| Power consumption monitoring (With PDI)                           | •                                                                                     | -                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     |
| Interlock control                                                 | -                                                                                     | -                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     |
| Virtual group control                                             | -                                                                                     | -                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     |
| Emergency alarm display                                           | -                                                                                     | -                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     |
| BECON HVAC IO Module interlocking                                 | -                                                                                     | -                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     |

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

# AC EZ TOUCH

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

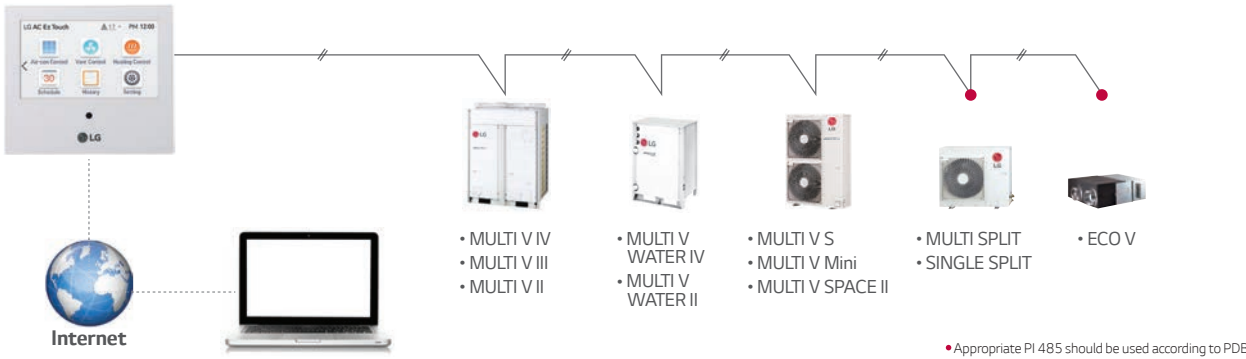
**NEW**  
PACEZB000



## Features

| Model Name                                                        | PACEZB000                                         |
|-------------------------------------------------------------------|---------------------------------------------------|
| Maximum number of indoor units                                    | 64                                                |
| Individual / Group control (On & Off, Mode, set point, fan speed) | •                                                 |
| Ventilation control                                               | •                                                 |
| Individual controller Lock                                        | • (Temperature / Mode / Fan / All)                |
| Error check                                                       | Self diagnosis                                    |
| Mode change                                                       | Cooling / Heating / Auto / Dehumidification / Fan |
| Master / Slave setting                                            | •                                                 |
| Schedule                                                          | Daily / Weekly / Monthly / Yearly / Exception day |
| Operation history                                                 | •                                                 |
| Web access                                                        | •                                                 |
| Auto changeover / Setback                                         | •                                                 |
| Power consumption monitoring (with PDI)                           | •                                                 |
| External IO Port No.                                              | DI 1                                              |
| Interfaceable products                                            | MULTI V / ECO V / ECO V DX / THERMA V / Hydro kit |

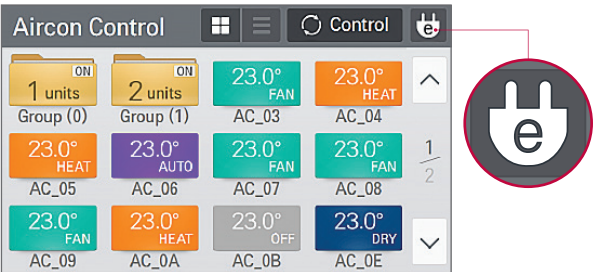
## Combination



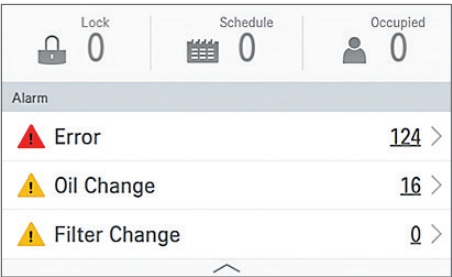
## Features



- **Web control**  
Users can control each space efficiently through web access anywhere.



- **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)



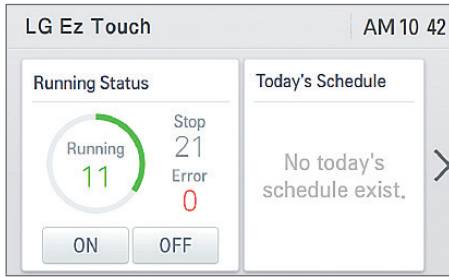
- **Alarm indicator**  
It works when there are some errors or it's time to change the oil or filter. Users can respond immediately according to alarm indicator therefore HVAC system is monitored consistently.

| Energy                                 |            |                  |
|----------------------------------------|------------|------------------|
| 2014.10.19~2014.10.25 Today Week Month |            |                  |
| Name                                   | Usage(kWh) | Accumulated(kWh) |
| Group1                                 | 110        | 3021             |
| Group2                                 | 150        | 6186             |
| Group3                                 | 130        | 4267             |
| Group4                                 | 120        | 7614             |

- **Energy statistics**  
Statistics of operational status (time, power consumption) are provided to help make intelligent system operation decisions

| Schedule_Month |     |     |     |     |     |     |
|----------------|-----|-----|-----|-----|-----|-----|
| Sun            | Mon | Tue | Wed | Thr | Fri | Sat |
| 25             | 26  | 27  | 28  | 29  | 30  | 31  |
| 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  | 1   | 2   | 3   | 4   | 5   |

- **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

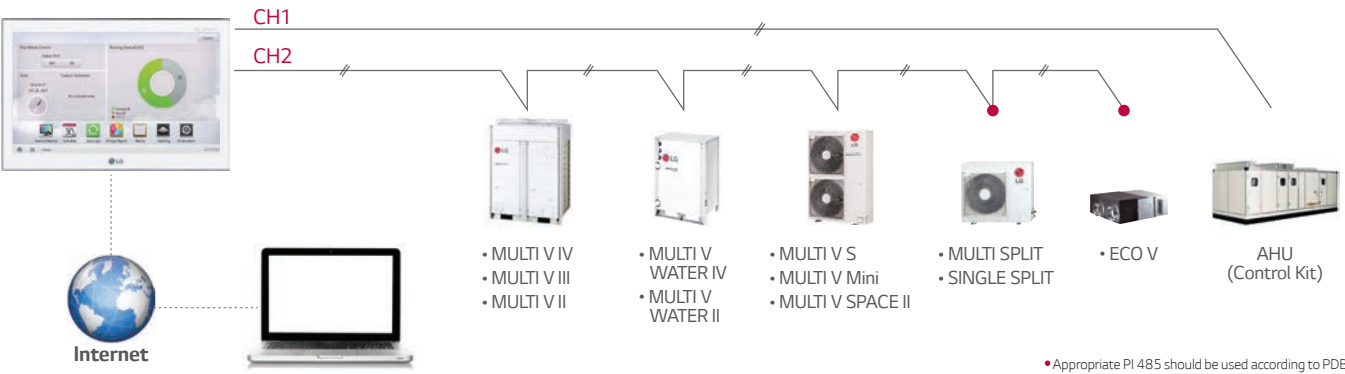


## Features

| Model Name                                                        | PQCS4B000                                         |
|-------------------------------------------------------------------|---------------------------------------------------|
| Maximum number of indoor units                                    | 128                                               |
| Individual / Group control (On & Off, Mode, set point, fan speed) | •                                                 |
| Ventilation control                                               | •                                                 |
| Individual controller Lock                                        | • (Temperature / Mode / Fan / All)                |
| Error check                                                       | Self diagnosis                                    |
| Mode change                                                       | Cooling / Heating / Auto / Dehumidification / Fan |
| Schedule                                                          | Daily / Weekly / Monthly / Yearly / Exception day |
| Operation history                                                 | •                                                 |
| Visual navigation                                                 | •                                                 |
| Operation time limit                                              | •                                                 |
| Temperature limit                                                 | •                                                 |
| Web Access <sup>1)</sup>                                          | •                                                 |
| Auto changeover / Setback                                         | •                                                 |
| Power consumption monitoring (with PDI)                           | •                                                 |
| Interlock control                                                 | •                                                 |
| Virtual group control                                             | •                                                 |
| Emergency alarm display                                           | •                                                 |
| ACS IO Module interlocking                                        | •                                                 |

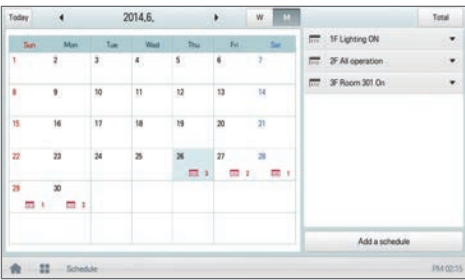
<sup>1)</sup> Assignment of public IP address is required to access central controller through internet.

## Combination



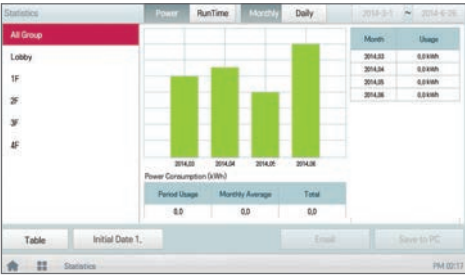
• Appropriate PI 485 should be used according to PDB

## Features



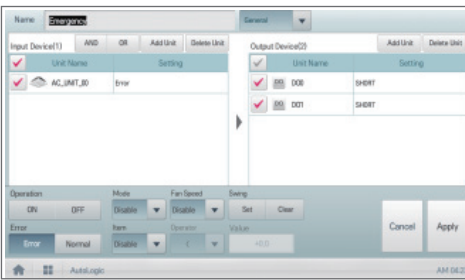
### • Schedule

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                       |
|--------|------------|----------|----------|------------|----------------------------------|
| ✓      | Date       | Time     | UnitName | Code       | Detail Information               |
| ✓      | 2014-06-26 | 14:15:50 | Room 303 | 01 S       | COOL/18.0 C/OFF by NONE          |
| ✓      | 2014-06-26 | 14:15:43 | Room 302 | 01 S       | COOL/18.0 C/OFF by NONE          |
| ✓      | 2014-06-26 | 14:15:43 | Room 303 | 01 S       | COOL/18.0 C/OFF by NONE          |
| ✓      | 2014-06-26 | 14:15:42 | Room 101 | 01 S       | COOL/18.0 C/OFF by NONE          |
| ✓      | 2014-06-26 | 14:15:42 | Room 105 | 01 S       | COOL/18.0 C/OFF by NONE          |
| ✓      | 2014-06-26 | 14:14:03 | Room 303 | 01 S       | COOL/18.0 C/ON by U_system_admin |
| ✓      | 2014-06-26 | 14:14:00 | Room 302 | 01 S       | COOL/18.0 C/ON by U_system_admin |
| ✓      | 2014-06-26 | 14:13:56 | Room 203 | 01 S       | 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 units include ECO V with simple commander

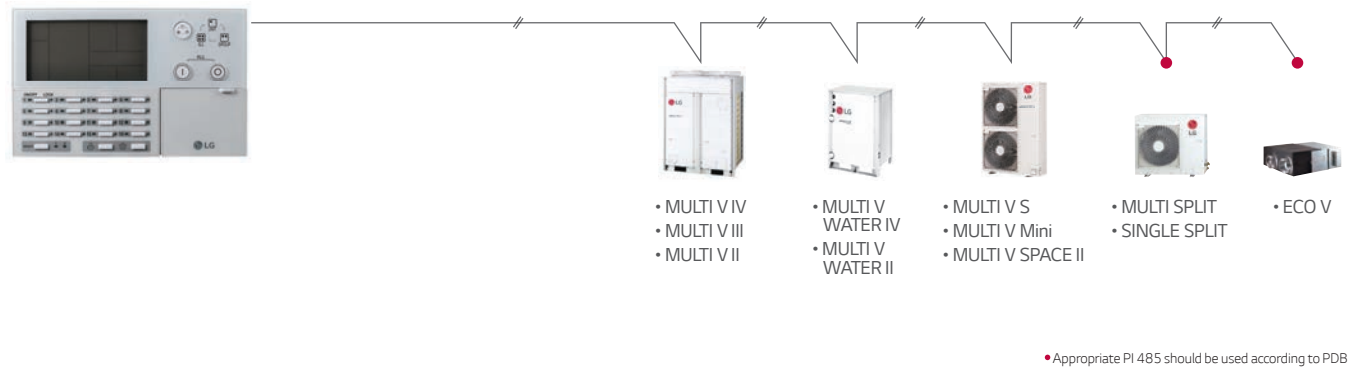
## PQCSZ250S0



### Features

| Model Name                                                           | PQCSZ250S0                                                    |
|----------------------------------------------------------------------|---------------------------------------------------------------|
| Maximum number of indoor units                                       | 32                                                            |
| Individual / Group control<br>(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                                                        |

### Combination



# 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

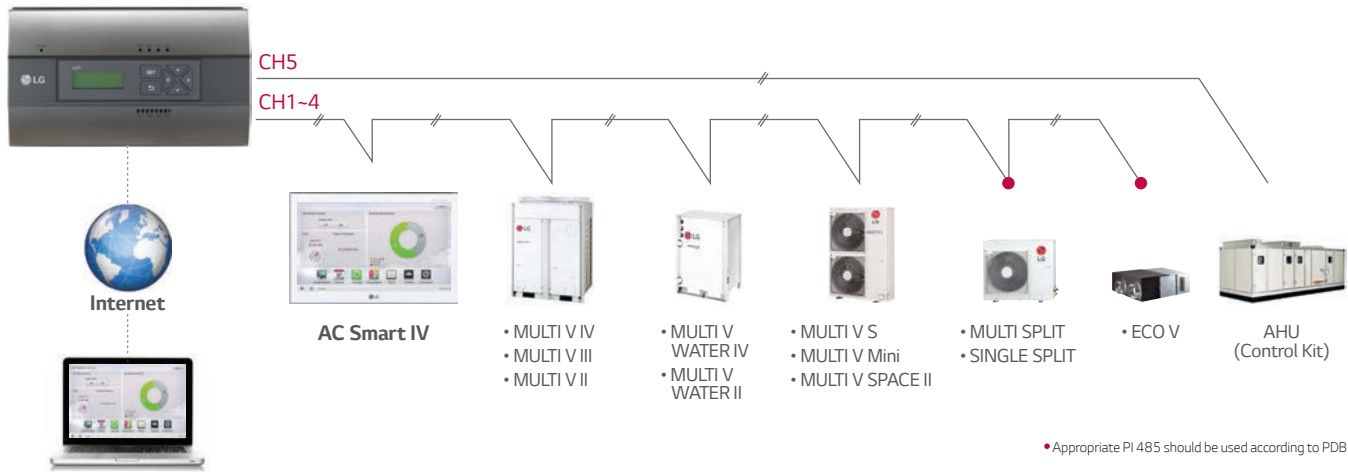


### Features

| Model Name                                                           | PACP4B000                                         |
|----------------------------------------------------------------------|---------------------------------------------------|
| Maximum number of indoor units                                       | 256                                               |
| Individual / Group control<br>(On & Off, Mode, set point, fan speed) | •                                                 |
| Ventilation control                                                  | •                                                 |
| 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                                                           | •                                                 |
| Auto changeover / Setback                                            | •                                                 |
| Power consumption monitoring (With PDI)                              | •                                                 |
| Interlock control                                                    | •                                                 |
| Virtual group control                                                | •                                                 |
| Emergency alarm display                                              | •                                                 |
| ACS IO Module interlocking                                           | •                                                 |

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

### Combination



# AC MANAGER IV

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

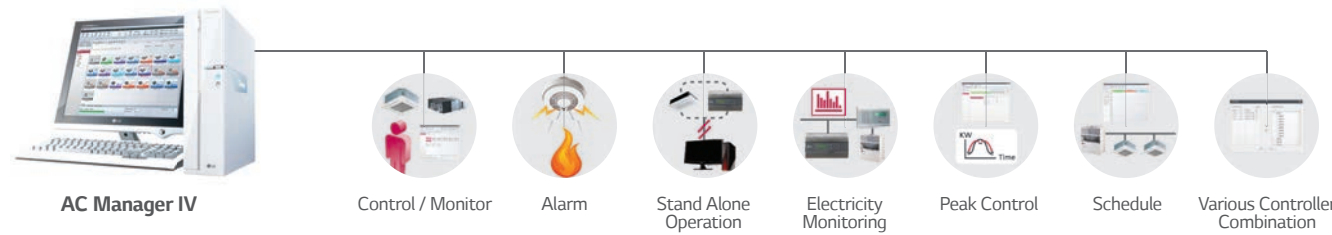
## PACM4B000



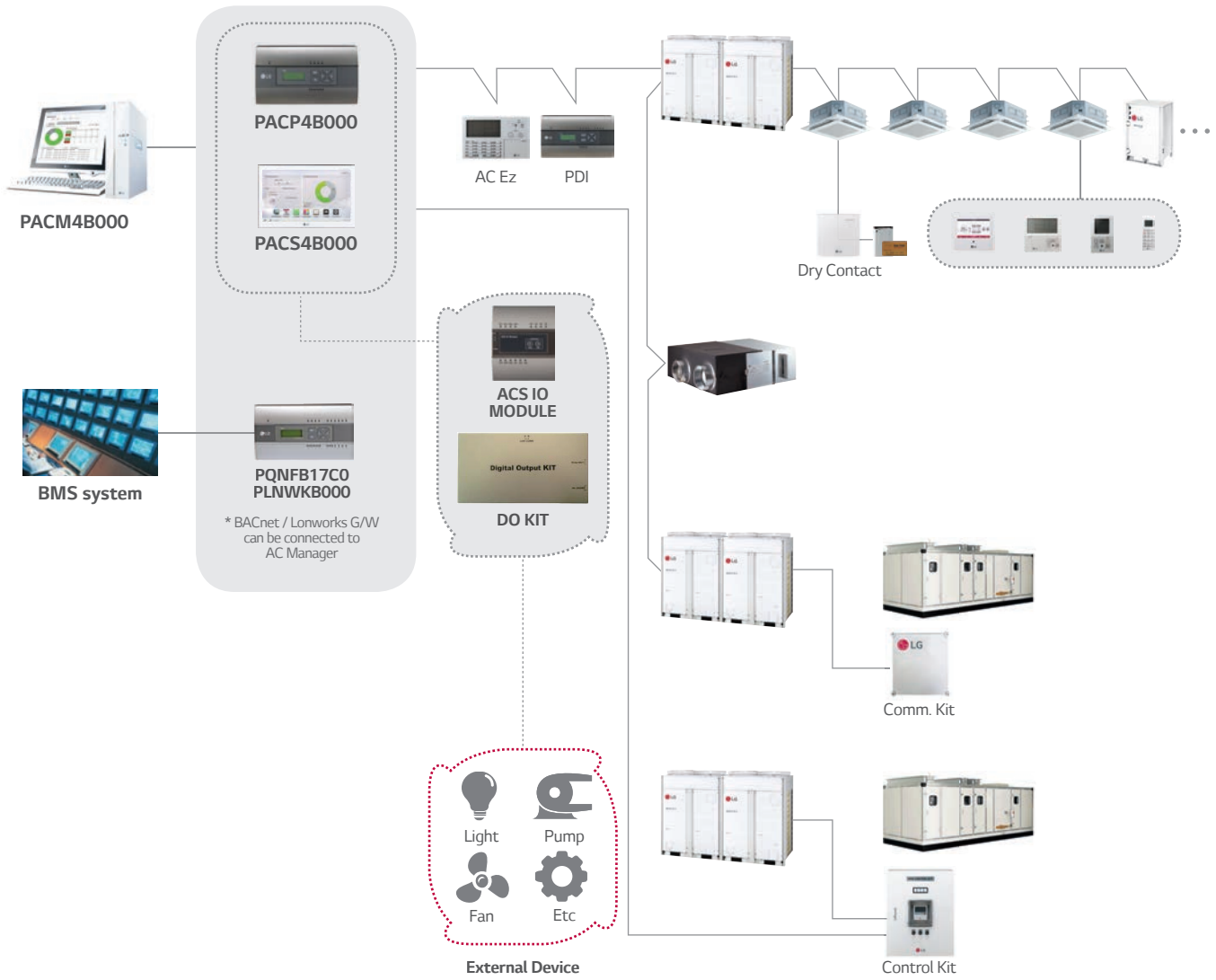
### Features

| Model Name                                                        | PACM4B000                                         |
|-------------------------------------------------------------------|---------------------------------------------------|
| Maximum number of indoor units                                    | 8,192 (supports 32 ACP IV)                        |
| Individual / Group control (On & Off, Mode, set point, fan speed) | •                                                 |
| Ventilation control                                               | •                                                 |
| 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                                                        | •                                                 |
| Auto changeover / Setback                                         | •                                                 |
| Power consumption monitoring (with PDI)                           | •                                                 |
| Interlock control                                                 | •                                                 |
| Virtual group control                                             | •                                                 |
| Emergency alarm display                                           | •                                                 |
| ACS IO Module interlocking                                        | •                                                 |

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



## Solution Overview



# SYSTEM INTEGRATION DEVICE

| Facility Integrator                                                                                                                                                                                   | Gateway for Protocol                                                                                                                                                    | PI-485                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>PDI (Power Distribution Indicator)</p>  <p>Premium (8 port)<br/>PQNUD1S40<br/>Standard (2 port)<br/>PPWRDB000</p> | <p>ACP BACnet (Modbus)</p>  <p>PQNFB17C0</p>                                           |  <p>For Outdoor Unit<br/>(SINGLE / MULTI/THERMA V)<br/>PMNFP14A1</p> |
| <p>ACS IO Module</p>  <p>PEXPMB000</p>                                                                              | <p>ACP Lonworks</p>  <p>PLNWKB000</p>                                                 |  <p>For Indoor Unit<br/>(Air-Conditioner, ECO V)<br/>PHNFP14A0</p> |
| <p>DO Kit (Digital Output Kit)</p>  <p>PQNFP00T0</p>                                                               | <p>KNX Gateway</p>  <p>LG-AC-KNX4<br/>LG-AC-KNX8<br/>LG-AC-KNX16<br/>LG-AC-KNX64</p> |  <p>For Indoor Unit<br/>(Air-Conditioner, ECO V)<br/>PSNFP14A0</p> |

# PDIPOWER DISTRIBUTION INDICATOR

PDI shows power consumption of up to 128 indoor units

**Premium**  
PQNUD1S40 (8 port)

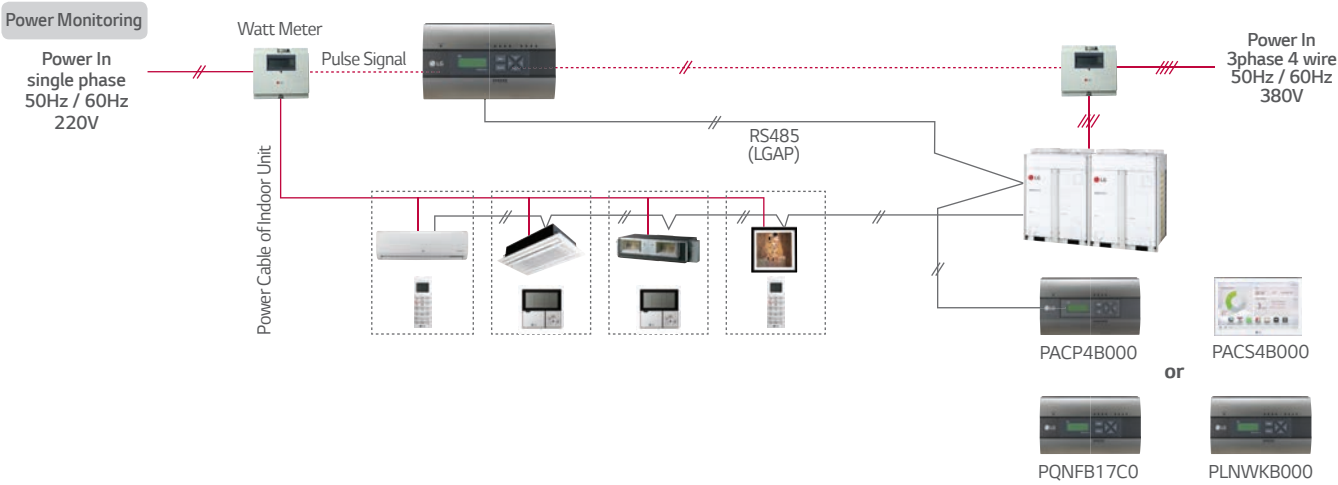
**Standard**  
PPWRDB000 (2 port)



## 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 RS485 communication type or pulse type power meter

## Combination



# ACS IO MODULE

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

PEXPMB000



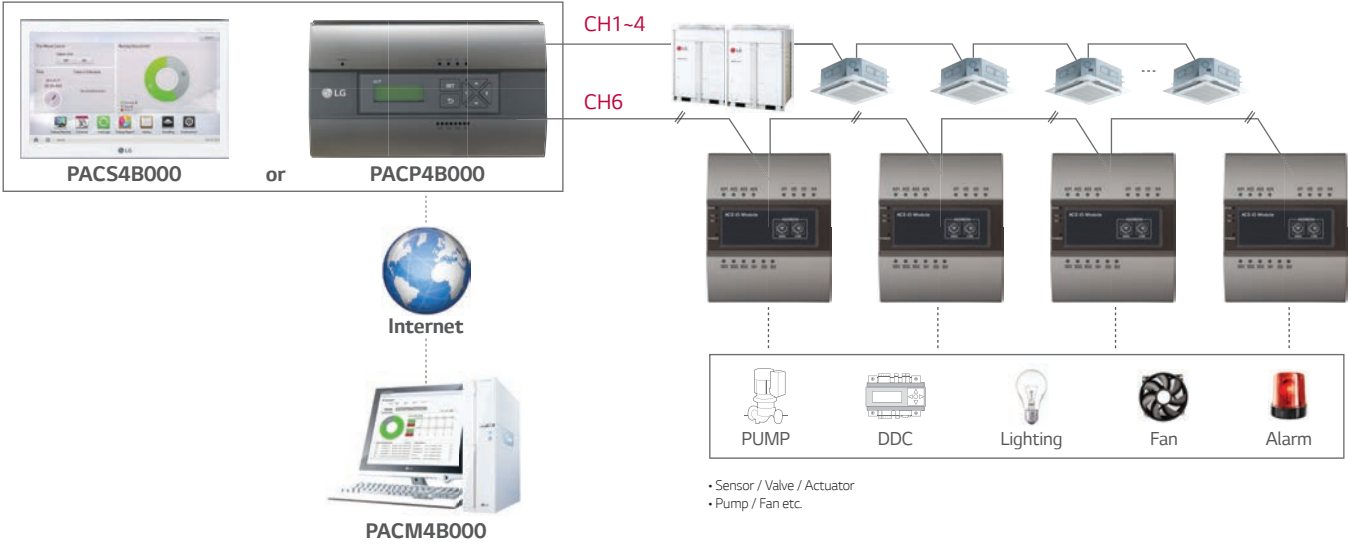
## Features

| Model Name        |        | PEXPMB000                           |
|-------------------|--------|-------------------------------------|
| Linkable Products |        | PACS4B000<br>PACP4B000<br>PACM4B000 |
| Communication     | CAN    | 1                                   |
|                   | RS-485 | 1                                   |
| I/O               | DI     | 3                                   |
|                   | DO     | 3                                   |
|                   | UI     | 4                                   |
|                   | AO     | 4                                   |

|                        | 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.

## Combination



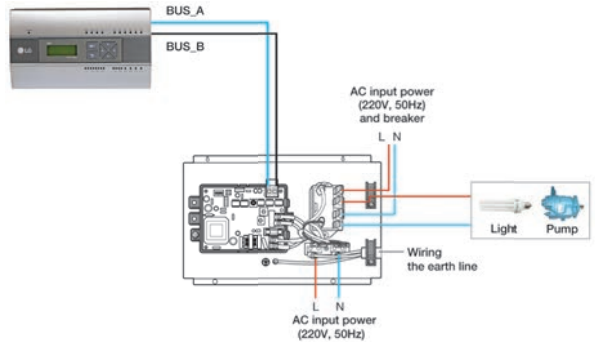
# DO KIT DIGITAL OUTPUT KIT

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

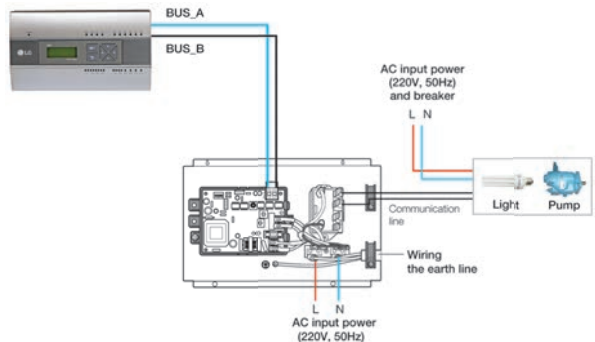
PQNFP00T0



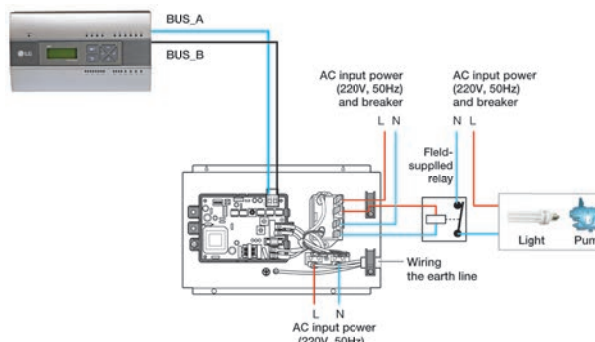
## Features



- When the product input is less or 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 or 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 thru 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.

# ACP BACNET GATEWAY

PQNFB17C0



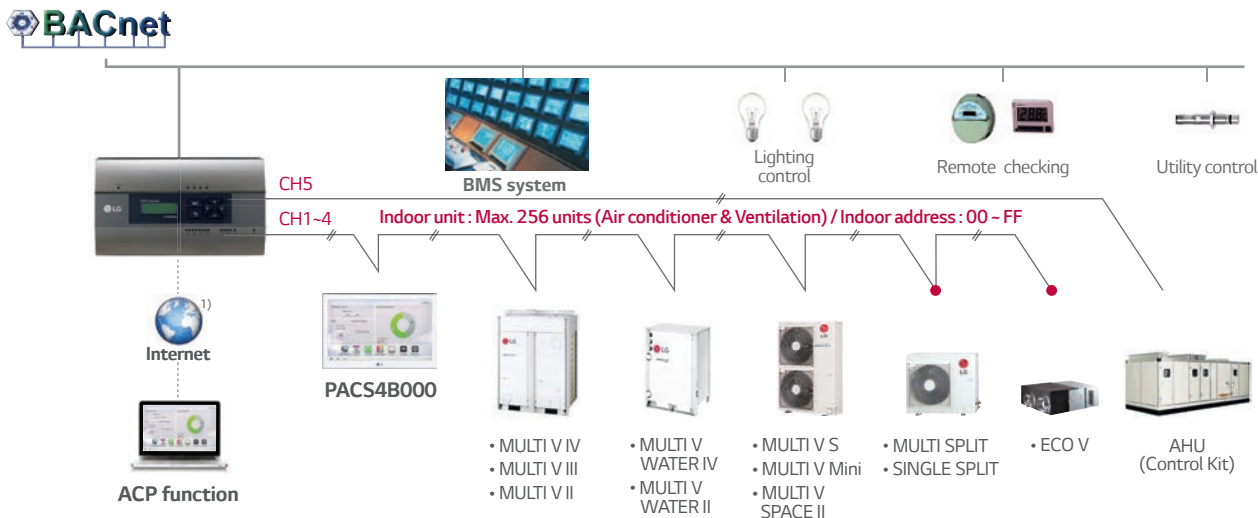
## Features

- **Process ability**
  - EHP Type : 256 units (Indoor / ECO V / ECO V DX / Hydro Kit / THERMA V)
  - AHU Control kit : Maximum 16 units
- **External devices such as fire alarm, motion detector can be connected to gateway and their function can be interlinked with air conditioner operation using BACnet.**
- **Modbus 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 ECO V)        | User Mode Status (for only ECO V)                     |
| -                                         | 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 (ECO V DX only) | Air Conditioner Operation Mode Status (ECO V DX only) |
| AC On / Off Command (ECO V DX only)       | Air Conditioner On / Off Status (ECO V DX only)       |

## Combination



<sup>1)</sup> 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

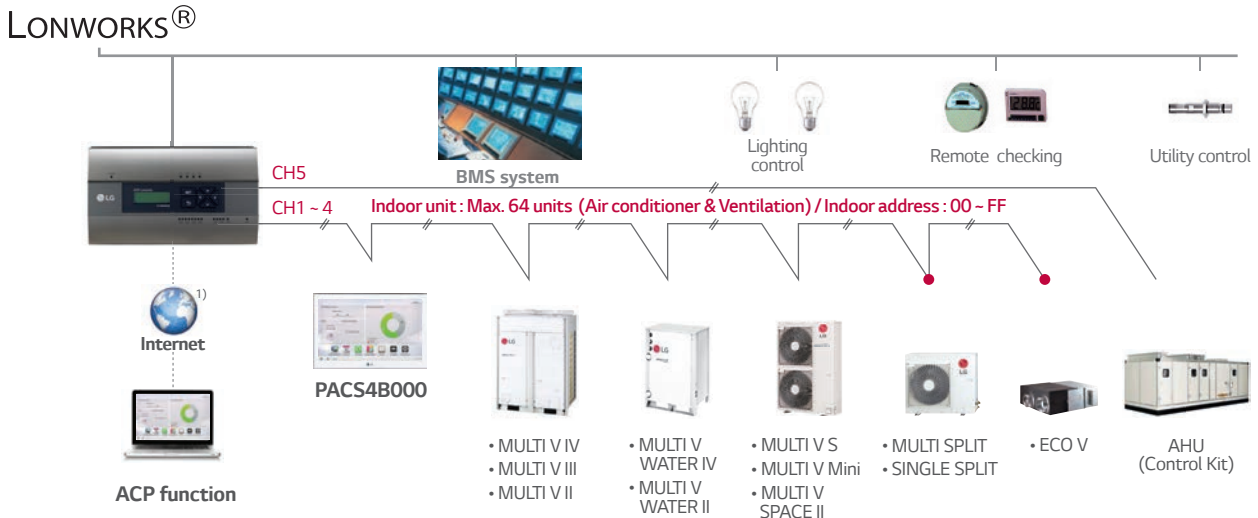


## Features

- **Process ability**
  - EHP Type : 64 units (Indoor / ECO V / 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         |

## Combination



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

• Appropriate PI 485 should be used according to PDB

# KNX GATEWAY<sup>1)</sup>

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

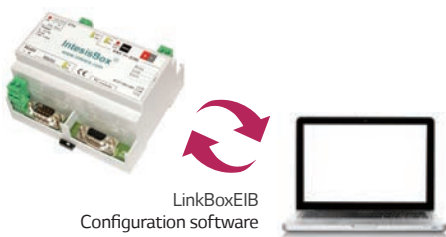


- Easy installation, direct connection to all outdoor units (communication interface PMNFP14A1, when needed) and Heat recovering units (communication interface PHNFP14A0, when needed) through the RS485 Bus.
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication 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                    |

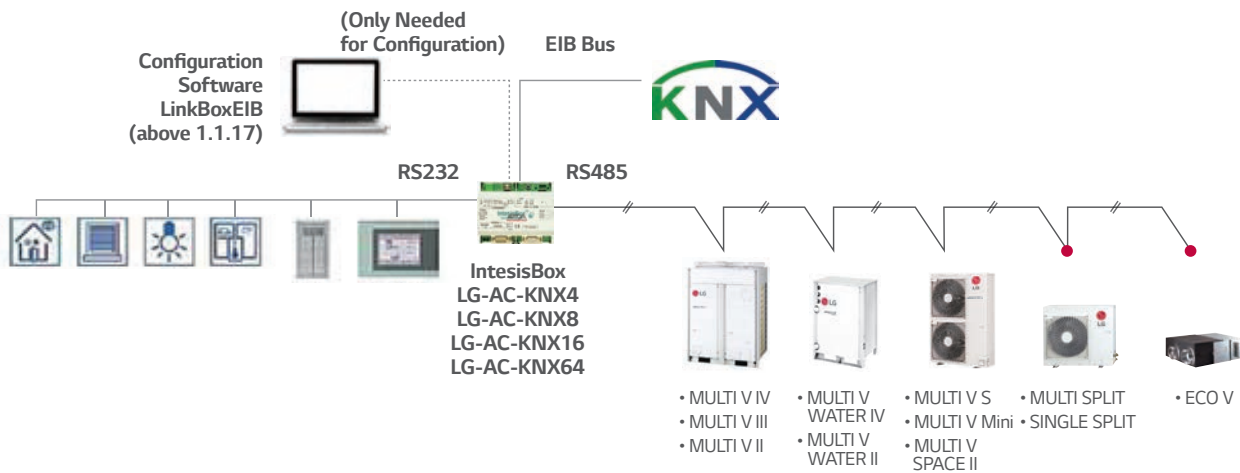
## Link BoxEIB Configuration Software for IntesisBox® KNX serious

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.

## Combination



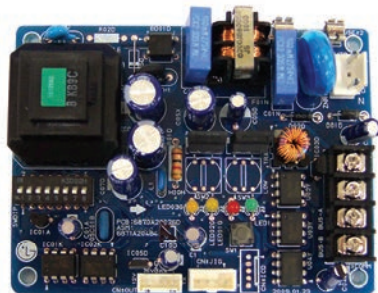
<sup>1)</sup>This product is provided by INTESIS. For more information, please contact INTESIS directly.

• Appropriate PI 485 should be used according to PDB

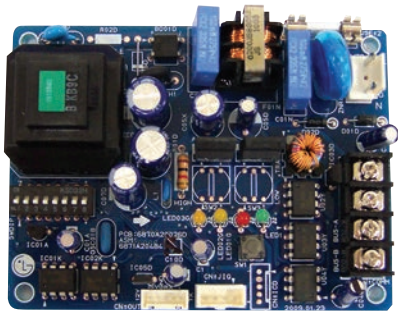
# PI 485

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

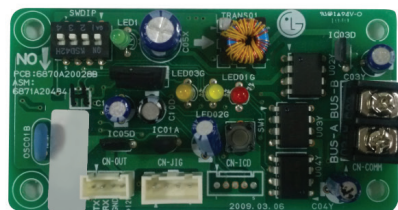
- PMNFP14A1
- PHNFP14A0
- PSNFP14A0



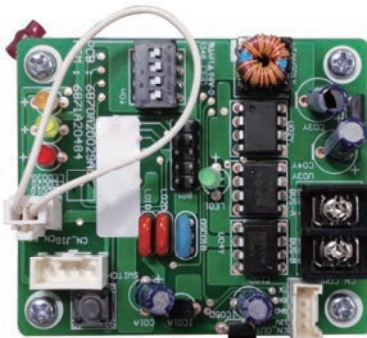
## Features



- **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, ECO V)



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

\* 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                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <div></div> <div>Simple Dry Contact<br/>PDRYCB000 (with case)</div> <div></div> <div>2 Points Dry Contact<br/>(For Setback)<br/>PDRYCB400</div> <div></div> <div>Dry Contact for<br/>Thermostat<br/>PDRYCB300</div> <div></div> <div>For Modbus<br/>PDRYCB500</div> | <div></div> <div>PZCWRCG3</div> <div></div> <div>PQRSTA0</div> <div></div> <div>ABZCA</div> | <div></div> <div>PVDSMN000</div> <div></div> <div>PRVC2</div> <div></div> <div>PQDSBCDVM0</div> <div></div> <div>PWFCKN000</div> <div></div> <div>PRDSBM</div> | <div></div> <div>PUCKA0<br/>PRCKA1</div> <div></div> <div>PUDCA0<br/>PRDCA0</div> <div></div> <div>PRCKD21E<br/>PRCKD41E</div> <div></div> <div>PRLK048A0 / PRLK096A0</div> <div></div> <div>PATX13A0E / PATX20A0E<br/>PATX25A0E / PATX35A0E<br/>PATX50A0E</div> |

# DRY CONTACT

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

PDRYCB000  
PDRYCB400

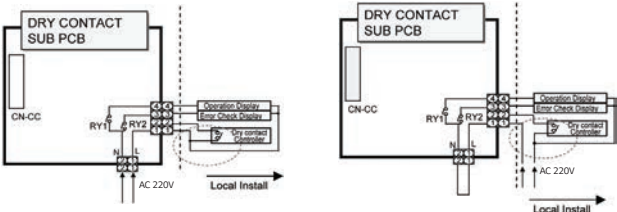


## Features

| 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            | •               | •                |
| Lock / Unlock               | -               | •                |
| Thermo Off                  | -               | •                |
| Energy Saving               | -               | •                |
| Temperature Setting         | -               | •                |
| Error Monitoring            | •               | •                |
| Operation Monitoring        | •               | •                |
| Size ( W x H , mm )         | 120 x 120       | 120 x 120        |

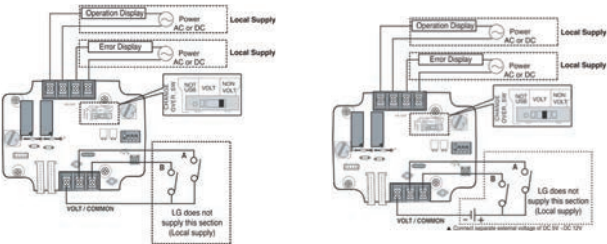
\* Refer to each models PDB for applicable models.    \* Maximum operation AC : 3A  
\* 4<sup>th</sup> generation indoor unit has 1 contact point function for On / Off control. But in case of using more function of Dry Contact besides On / Off control, Dry Contact is needed.

### PDRYCB000



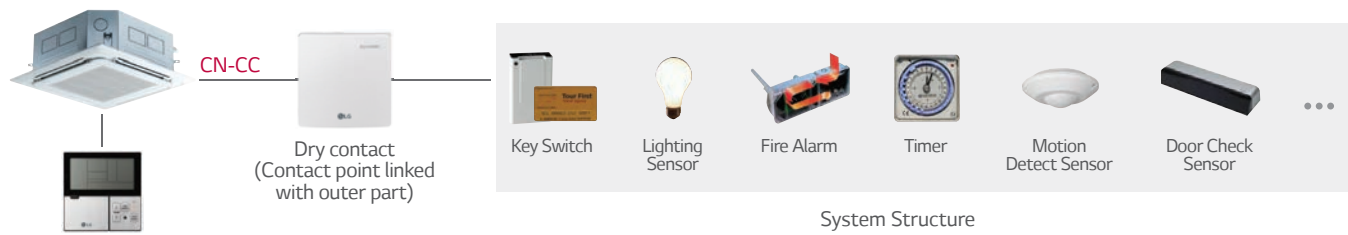
To Apply Power Source through PCB      To Apply Power Source Directly to External Source

### PDRYCB400



In Case Non Voltage Signal      In Case Voltage Signal

## Combination



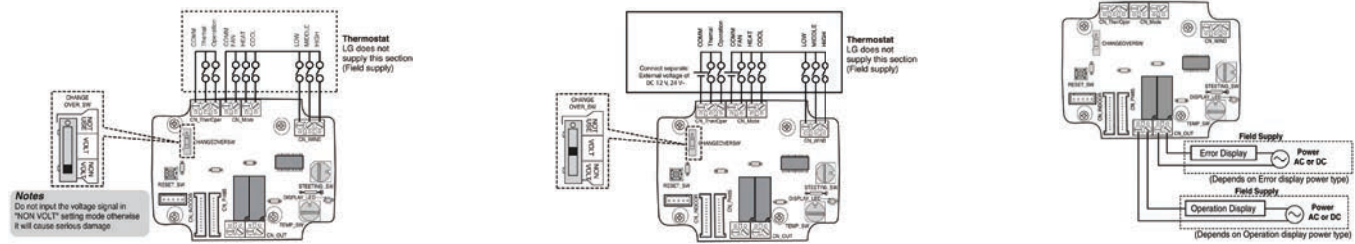
PDRYCB300



## Features

| Model Name                 | PDRYCB300                           |
|----------------------------|-------------------------------------|
| Dimensions (W x H x D, mm) | •                                   |
| 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



- For no Power Contact Point Signal Input      - For Power Contact Point Signal Input      - Indoor Unit Monitoring

## Combination



# DRY CONTACT

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

## PDRYCB500



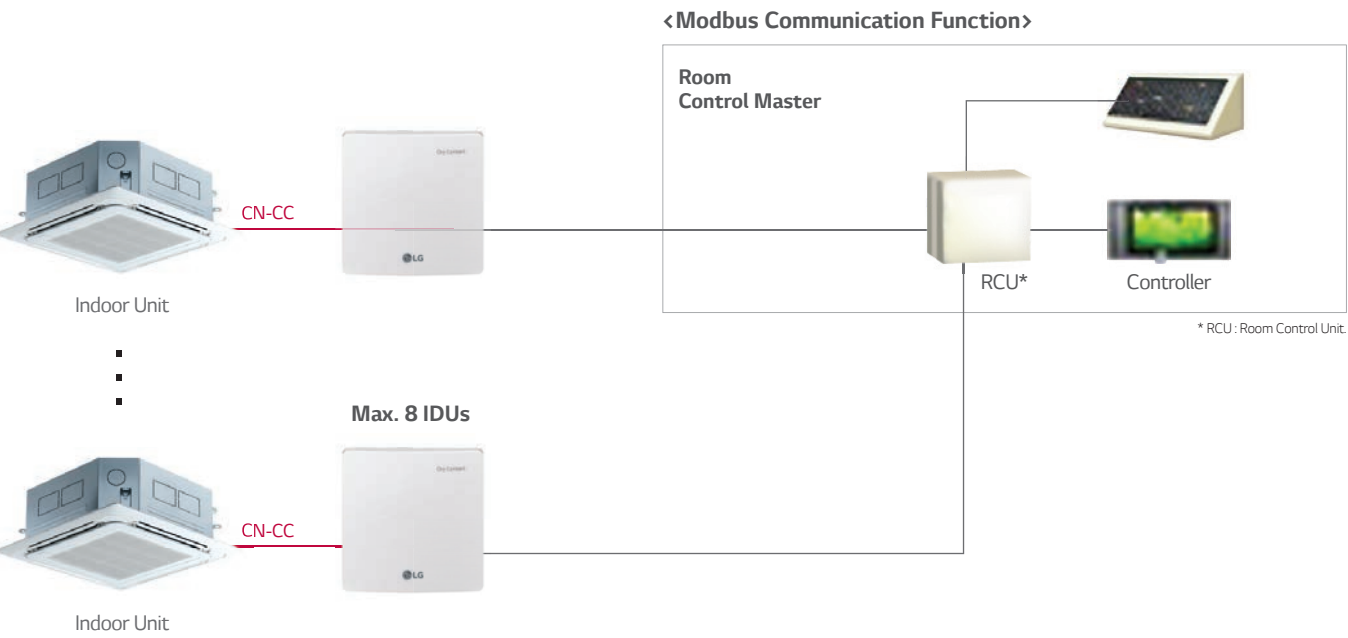
### Features

- Function
  - MODBUS communicate with MODBUS master controller
  - MODBUS RTU slave, 2 wire RS485, 9600bps
  - Max. 8 IDUs can connect to one controller (Address setting range hexa decimal value 00~07)

• 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 |

### Combination



# GROUP CONTROL WIRE

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

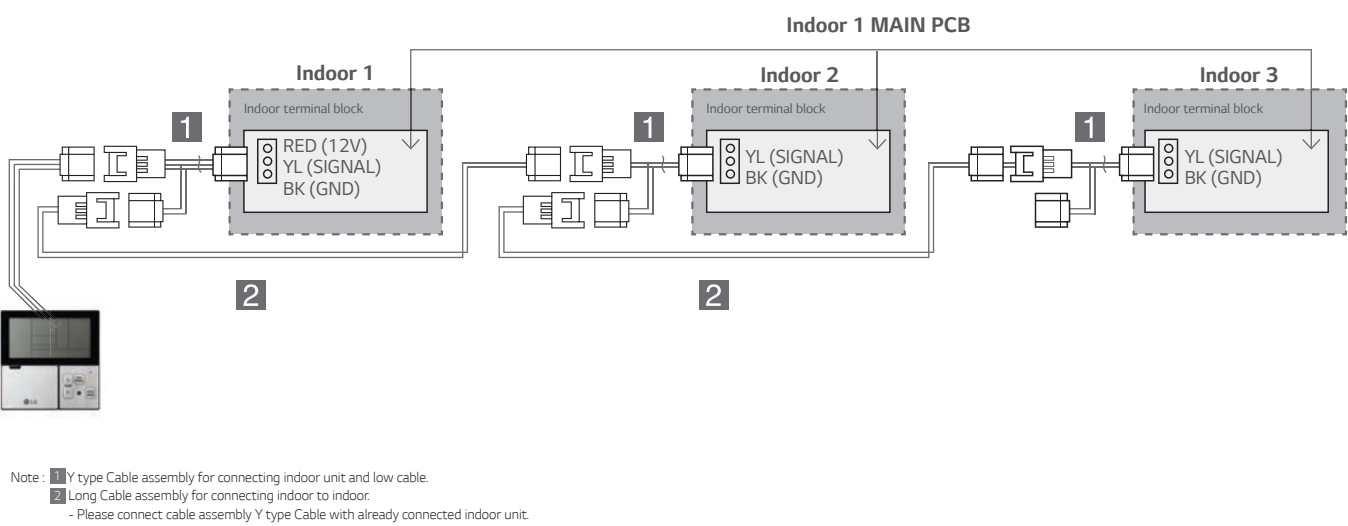
## PZCWRCG3



### Features

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

### Combination



# REMOTE TEMPERATURE SENSOR

Sensor for detecting the room temperature

PQRSTA0

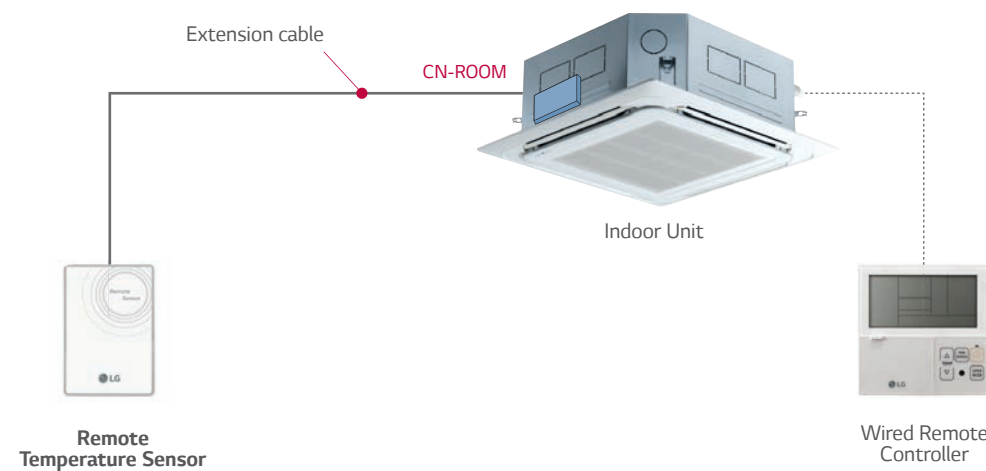


## Features

- 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 (15m) is included

## Combination

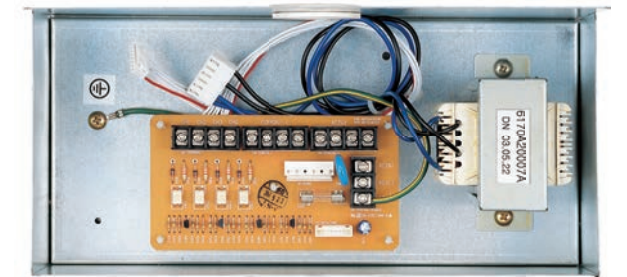
1. Wire to the control box in the indoor unit by removing the existing thermistor and connect the extension cable its place.
2. Cut the extension cable to the appropriate length and connect the screw terminal of the remote sensor.



# ZONE CONTROLLER

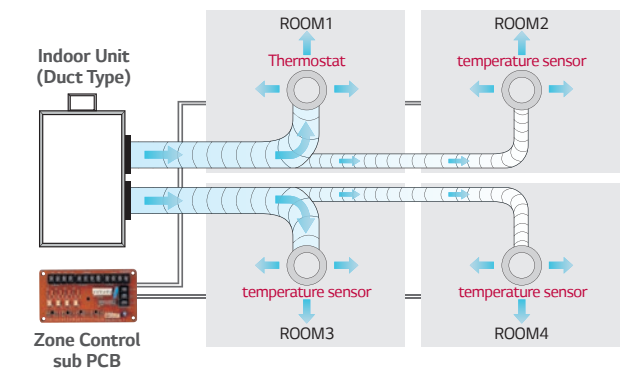
Controls air conditioning in up to 4 zones by external thermostat

ABZCA



## Features

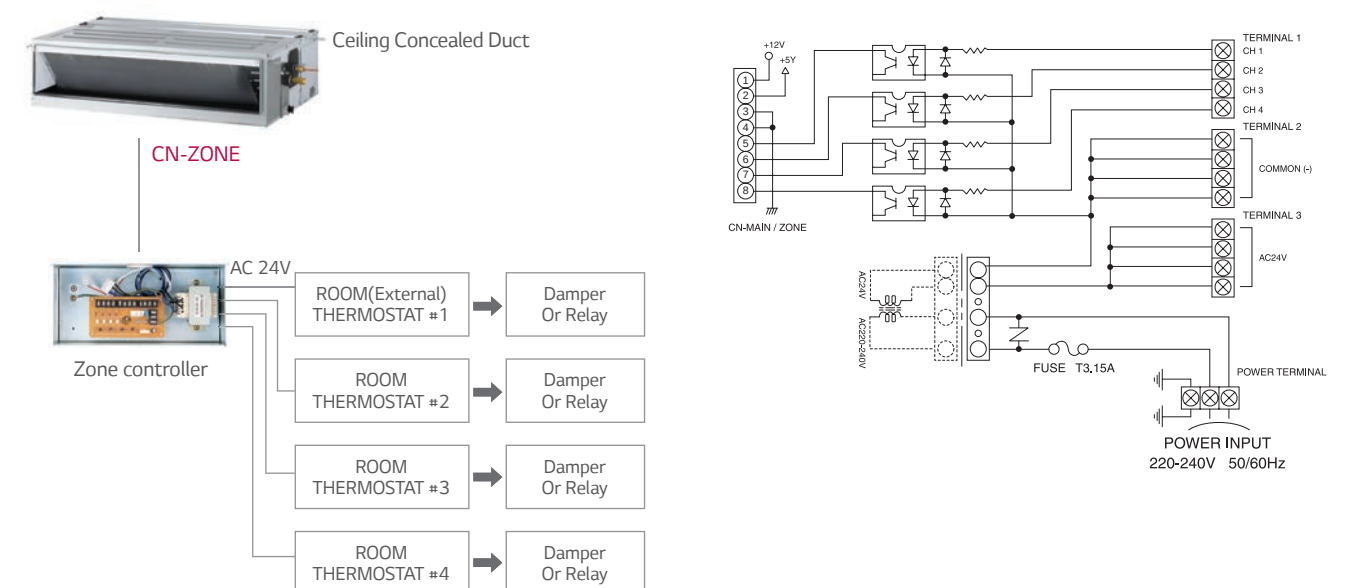
- Controls different zones (up to 4 zones) by external thermostat(AC 24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation



## Models Applied

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

## Wiring Diagram



# IO MODULE INPUT / OUTPUT MODULE

Sensor for detecting the room temperature

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

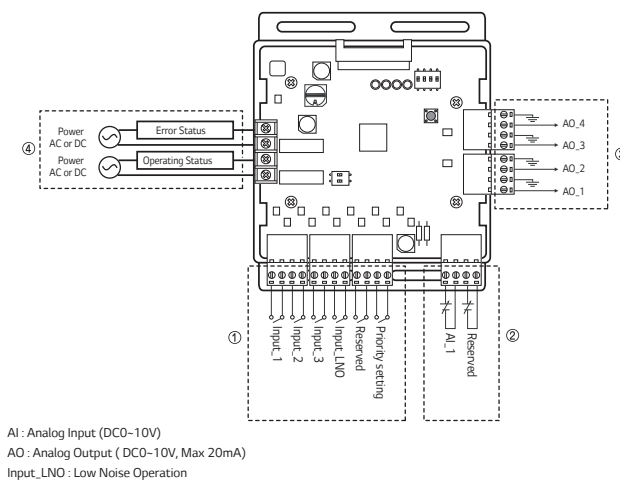
- MULTI V IV, MULTI V WATER IV, MULTI V S

## 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.)

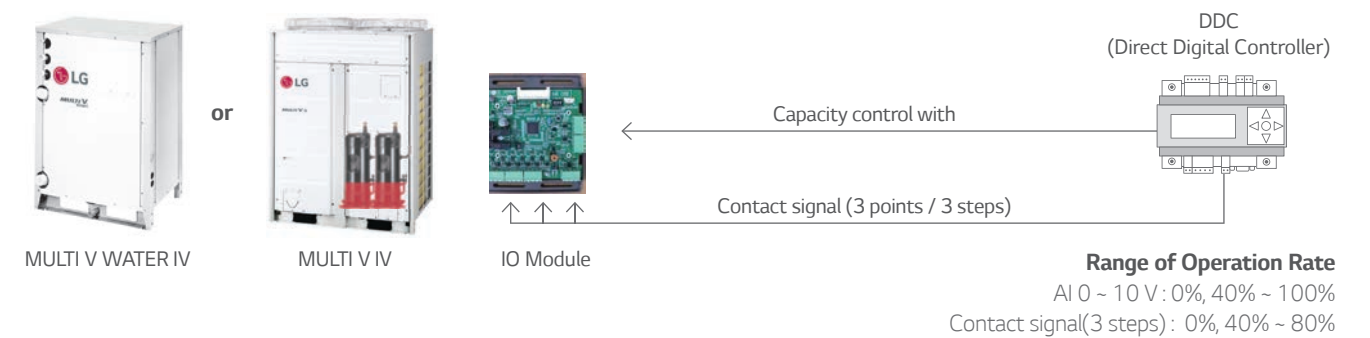
    - Close : Central controller has priority to external signal
    - Open : External signal has priority to central controller(default setting)
- 2) Analog Input Part (AI : DC 0 ~ 10V)
  - AI\_1 : Demand control by analog input (10 Step)
- 3) Analog Output Part(AO : DC 0 ~ 10V, Max 20 mA)
  - Low ambient operation(AO\_1~3)
  - IO Module communication error display
- 4) Digital Output (DO : 250VAC, Max 1A)
  - Output error status
  - Output operation status



## Combination

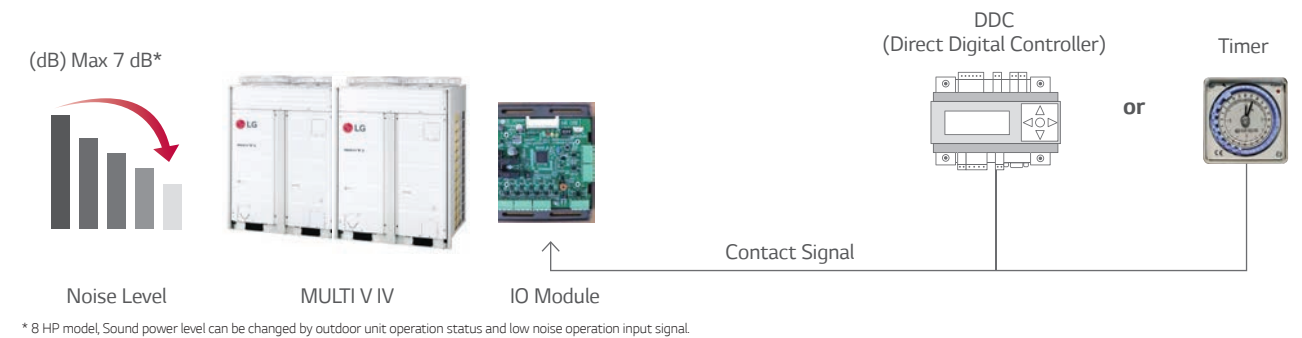
### Demand Control

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, 10Step) and contact signal(3 Step).



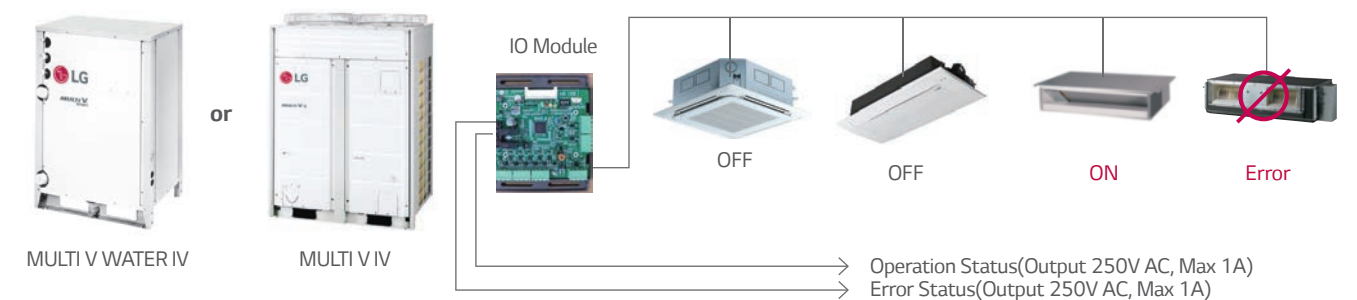
### Low Noise Operation

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



### Output Operation and Error Status

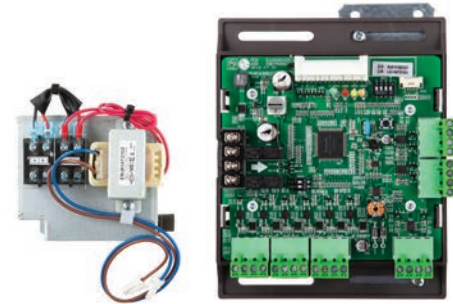
This function displays outdoor or indoor unit's operation and error status. Depends on dip switch setting, either outdoor or indoor unit operation status is reflected through output signal. Additionally, either outside or indoor unit has an error, IO Module display error signal by another replay.



# LOW AMBIENT KIT

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

PRVC2



## Features

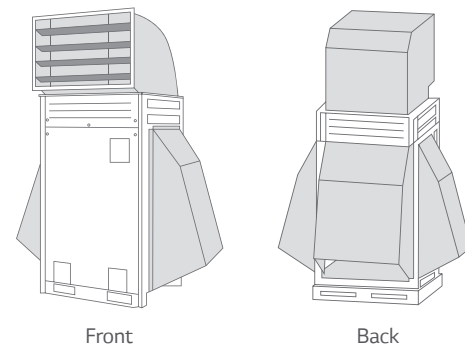
- Function

- 25C 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 -25C 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

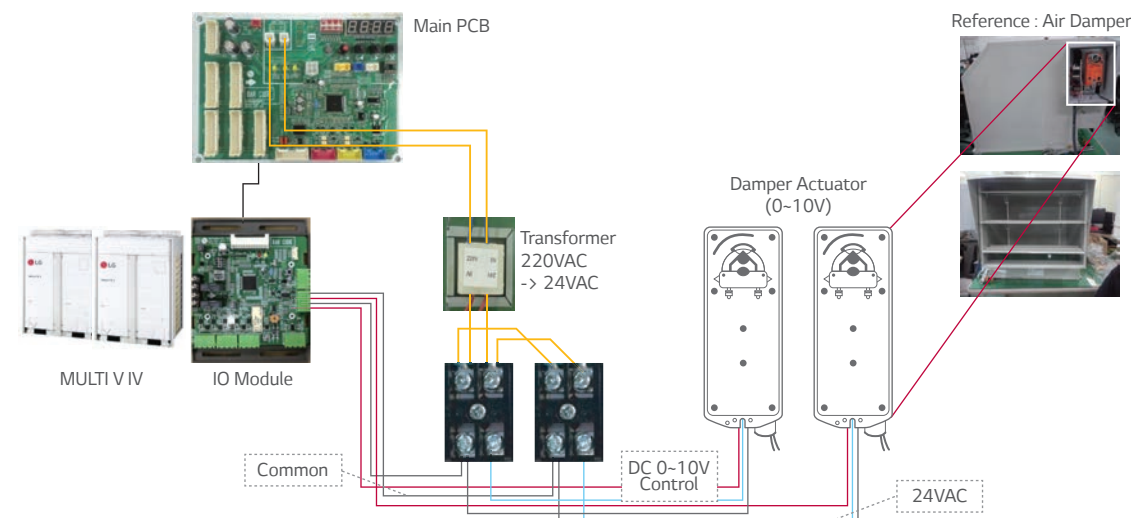
[Back](#)

 : Field Supply item

## Models Applied

- MULTI V IV

## Combination



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



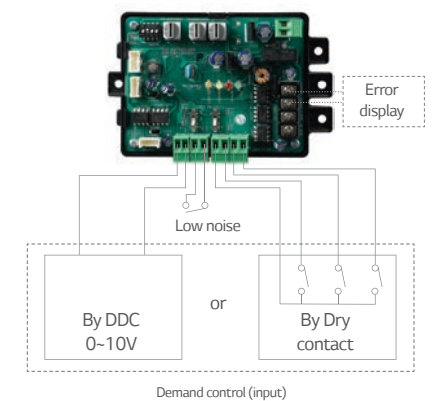
## Features

- 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

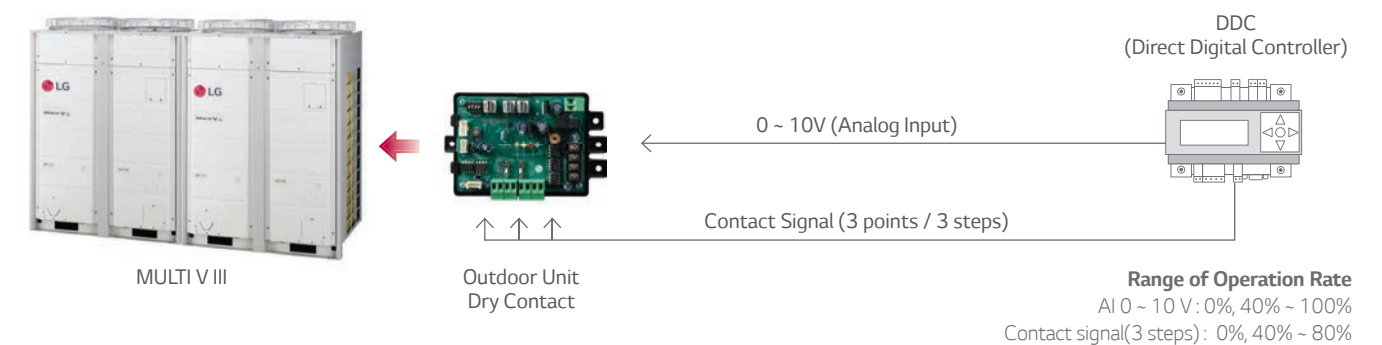
The product is especially designed for demand control.



## Models Applied

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

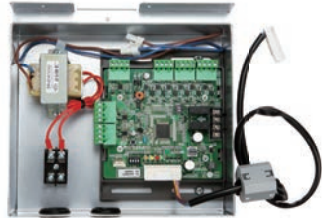
## Combination



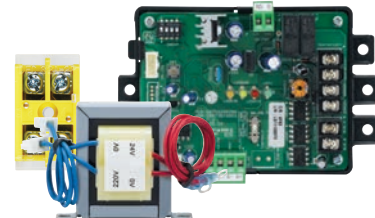
# VARIABLE WATER FLOW CONTROL KIT

Accessory developed for controlling the water flow

PWFCKN000 (MULTI V WATER IV)



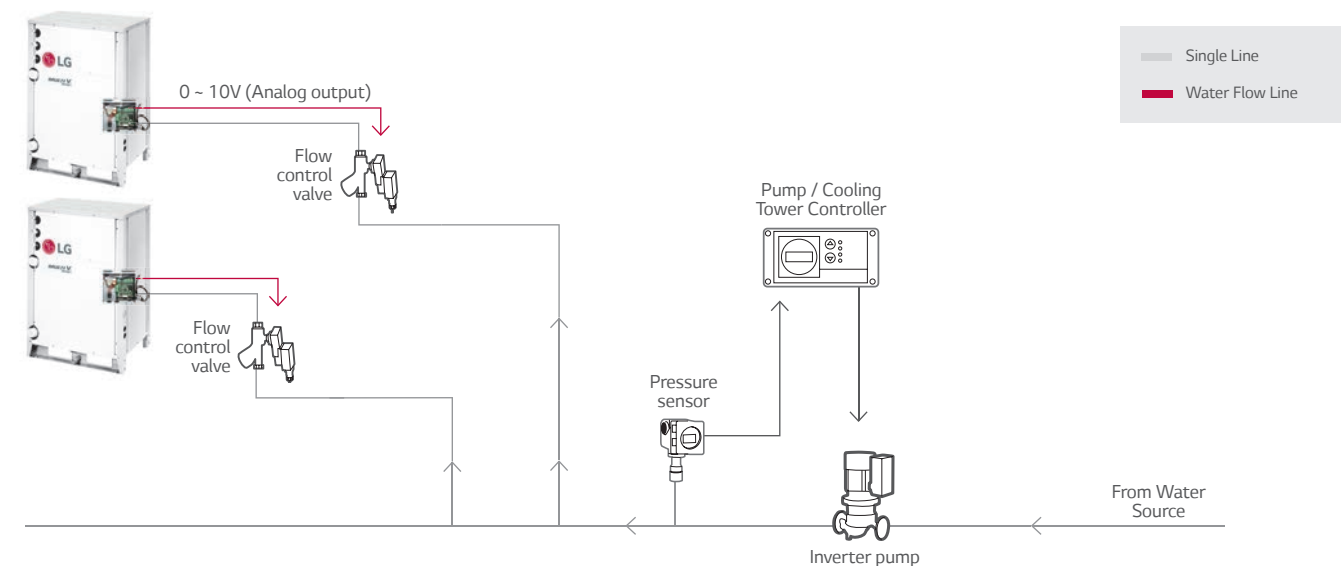
PRVCO (MULTI V WATER II)



## 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

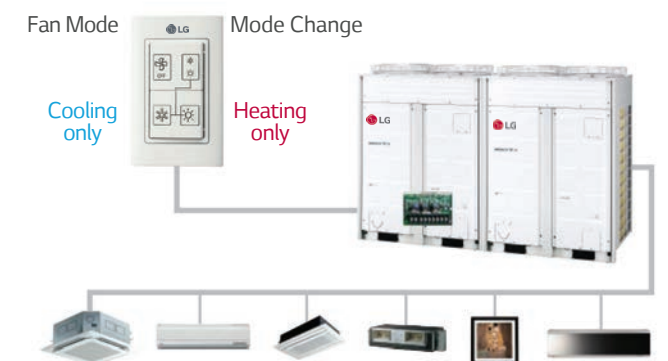
Cooling, heating, or fan mode can be selected to prevent cooling and heating mixing errors during seasonal changes

PRDSBM



## Features

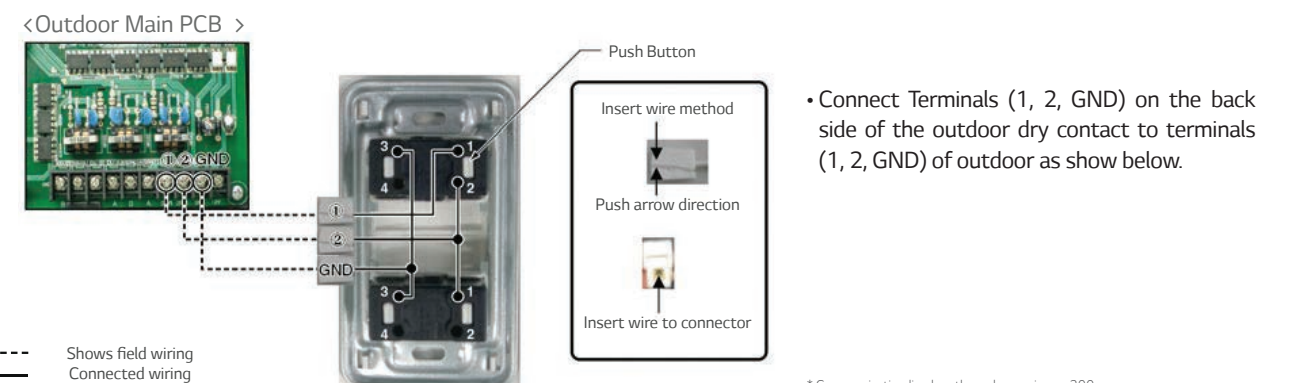
- Indoor unit mode control without central controller
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season



## 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



\* Communication line length can be maximum 300m, use Communication line as thick as 1.25mm

# 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



**Control Kit**

PRCKD21E  
PRCKD41E



**EEV Kit**

PRLK048A0  
PRLK096A0



**Expansion Kit**

PATX13A0E PATX25A0E  
PATX20A0E PATX35A0E  
PATX50A0E

## Specifications

| Type              | Model Name | Combination  |         |               |                    | Description                                                                                            | Dimensions (mm) |     |     |
|-------------------|------------|--------------|---------|---------------|--------------------|--------------------------------------------------------------------------------------------------------|-----------------|-----|-----|
|                   |            | Outdoor unit | EEV Kit | Expansion Kit | Central controller |                                                                                                        | W               | H   | D   |
| Communication Kit | PUCKA0     | Single Split | -       | -             | •                  | Return/room air control by remote controller or dry contact                                            | 280             | 135 | 280 |
|                   | PRCKA1     | MULTI V      | •       | •             | •                  | Return/room air by remote controller or dry contact control                                            | 280             | 135 | 280 |
|                   | PUDCA0     | Single Split | -       | -             | -                  | Return/room air or supply air(capacity) control by DDC                                                 | 330             | 180 | 430 |
|                   | PRDCA0     | MULTI V      | •       | •             | -                  | Return/room air or supply air(capacity) control by DDC<br>This unit is connected with outdoor unit 1:1 | 330             | 180 | 430 |
| 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 |

### Function list for Communication Kit

| List        |                                                      | Description                                                          | PUCKA0 | PRCKA1 | PUDCA0 | PRDCA0 | Specification                |                                |                             |      |
|-------------|------------------------------------------------------|----------------------------------------------------------------------|--------|--------|--------|--------|------------------------------|--------------------------------|-----------------------------|------|
|             |                                                      |                                                                      |        |        |        |        | PUCKA0 / PRCKA1 Type         | PUDCA0 / PRDCA0 Type           | Min                         | Max  |
| Controlling | Outdoor Unit Operation                               | On / Off                                                             | •      | •      | •      | •      | By wired controller*         | Digital input** (Non voltage)  | -                           | -    |
|             | Mode                                                 | Fan only/heating/cooling                                             | •      | •      | •      | •      | By wired controller          | Digital input (Non voltage)    | -                           | -    |
|             | Fan Step                                             | High/mid/low (3 steps)                                               | •      | •      | •      | •      | By wired controller          | Digital input (Non voltage)    | -                           | -    |
|             | Room Temperature Control                             | Cooling 18 ~ 30°C, heating 16 ~ 30°C                                 | •      | •      | •      | •      | By wired controller          | Analog input                   | 0 V                         | 10 V |
|             | Supply Air Temperature (by outdoor capacity control) | Compressor Off, Compressor Off & Fan Off, 40 ~ 100% capacity control | -      | -      | •      | •      | -                            | Analog input                   | 0 V                         | 10 V |
| Monitoring  | Outdoor Unit Operation                               | On / Off                                                             | -      | -      | •      | •      | -                            | Digital output** (Non voltage) | Max : AC 250 V, DC 30 V, 1A |      |
|             | AHU Communication Kit Operation                      | On / Off                                                             | -      | -      | •      | •      | -                            | Digital output (Non voltage)   | Max : AC 250 V, DC 30 V, 1A |      |
|             | Outdoor Mode                                         | Fan/defrost/cooling/heating                                          | -      | -      | •      | •      | -                            | Digital output (Non voltage)   | Max : AC 250 V, DC 30 V, 1A |      |
|             | Fan Mode                                             | High/mid/low (3 steps)                                               | •      | •      | •      | •      | Digital output (Non voltage) | Digital output (Non voltage)   | Max : AC 250 V, DC 30 V, 1A |      |
|             | Error Status                                         | No error/error occurred                                              | ▲**    | ▲      | •      | •      | Dry Contact                  | Digital output (Non voltage)   | Max : AC 250 V, DC 30 V, 1A |      |

Note : PUCKA0, PRCKA1 are controlled by remote controller(default) and dry contact  
PUDCA0, PRDCA0 are controlled by external input(default) and wired remote controller  
\* Optional accessory, recommended model : PQRCSLO, PQRCSLOQW  
\*\* Binary input and output (Open and short), DO is normal open  
\*\*\* Recommended model : PDRYCB000, PQDSA

● : Available    ▲ : Dry Contact is needed    - : Not available

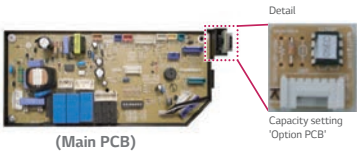
## Specifications

| Type          | Model Name | Description                                                                                                            | Capacity Range                        | Dimensions(mm) |     |     |
|---------------|------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------|-----|-----|
|               |            |                                                                                                                        |                                       | W              | H   | D   |
| EEV Kit       | PRLK048A0  | For MULTI V - In combination with or without indoor units. Several EEV kits can be connected to a single outdoor unit. | 8.6 ~ 28.1 kW                         | 404            | 830 | 217 |
|               | PRLK096A0  |                                                                                                                        | 33.7 ~ 56.2kW                         | 404            | 830 | 491 |
| Expansion Kit | PATX13A0E  | For Multi V - Stand alone.<br>This unit is connected with outdoor unit 1:1                                             | Outdoor Capacity : 8~16HP(23~46kW)    | 238            | 169 | 491 |
|               | PATX20A0E  |                                                                                                                        | Outdoor Capacity : 18~26HP(52~75kW)   |                |     |     |
|               | PATX25A0E  |                                                                                                                        | Outdoor Capacity : 28~36HP(82~104kW)  |                |     |     |
|               | PATX35A0E  |                                                                                                                        | Outdoor Capacity : 38~46HP(110~133kW) |                |     |     |
|               | PATX35A0E  |                                                                                                                        | Outdoor Capacity : 48~56HP(139~163kW) | 291            | 192 | 561 |

## Capacity Selection

### For SINGLE SPILIT

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

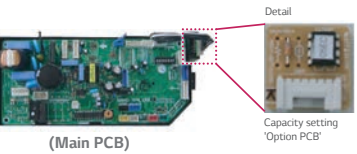


| Option PCB  | Outdoor Unit Capacity |      | Recommended Heat Exchanger Volume (10 <sup>-3</sup> x m <sup>3</sup> ) | Maximum Heat Exchanger Capacity (kW) | Air Flow Rate (CMM) | Applicable Outdoor Units |                          |                          |
|-------------|-----------------------|------|------------------------------------------------------------------------|--------------------------------------|---------------------|--------------------------|--------------------------|--------------------------|
|             | kBTU                  | kW   |                                                                        |                                      |                     | PUCKA0 H-Inverter        | PUDCA0 Standard Inverter | PUDCA0 Standard Inverter |
| 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             | -                        | •                        | •                        |

\* Evaporator Saturated Temperature = 6°C, Air Temperature = 27°C DBT / 19°C WBT      \* Combination allowed only for air-to-air system.

### For MULTI V

- When selecting evaporator, change ‘Option PCB’ in Communication kit according to below table (Basic ‘Option PCB’ is for 36k Btu/h)
- After 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 m3) | 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 (m<sup>3</sup>) : Pipe cross-section x Tube length    - Pipe cross-section (m<sup>2</sup>) = π x ID<sup>2</sup> / 4    - Tube length (m) = Tube length of 1 pipe x Tube step x Tube row

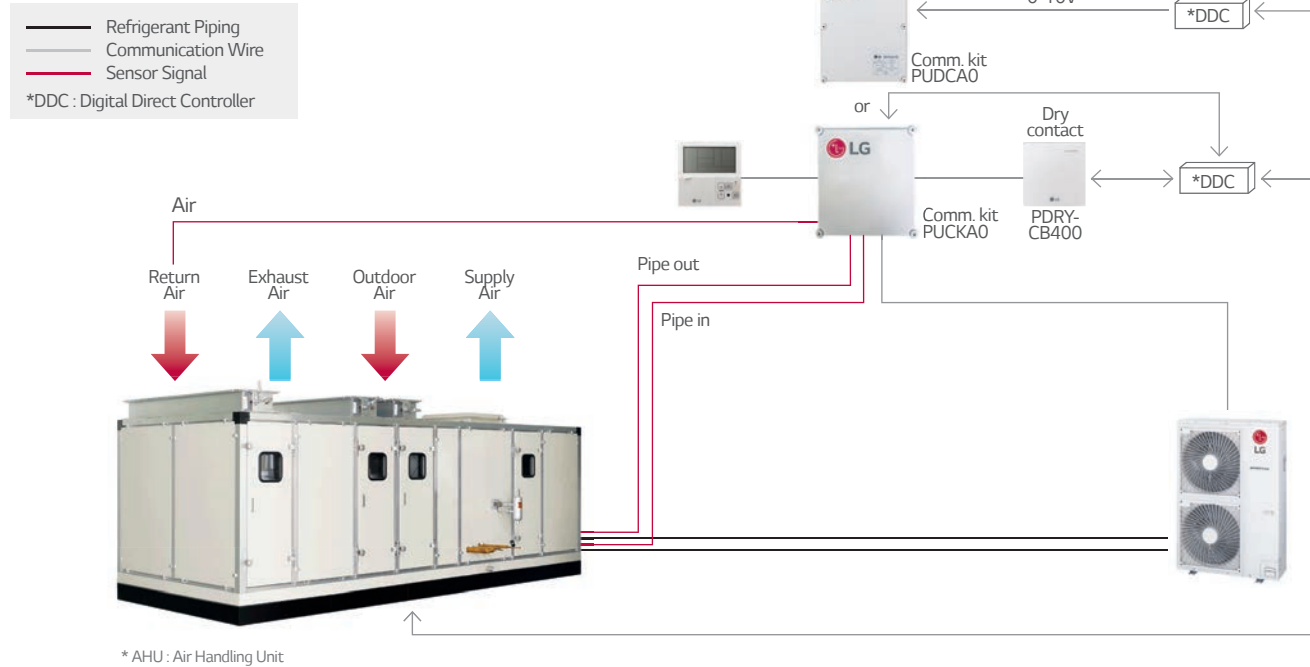
# AHU KITS

## AIR HANDLING UNIT KITS

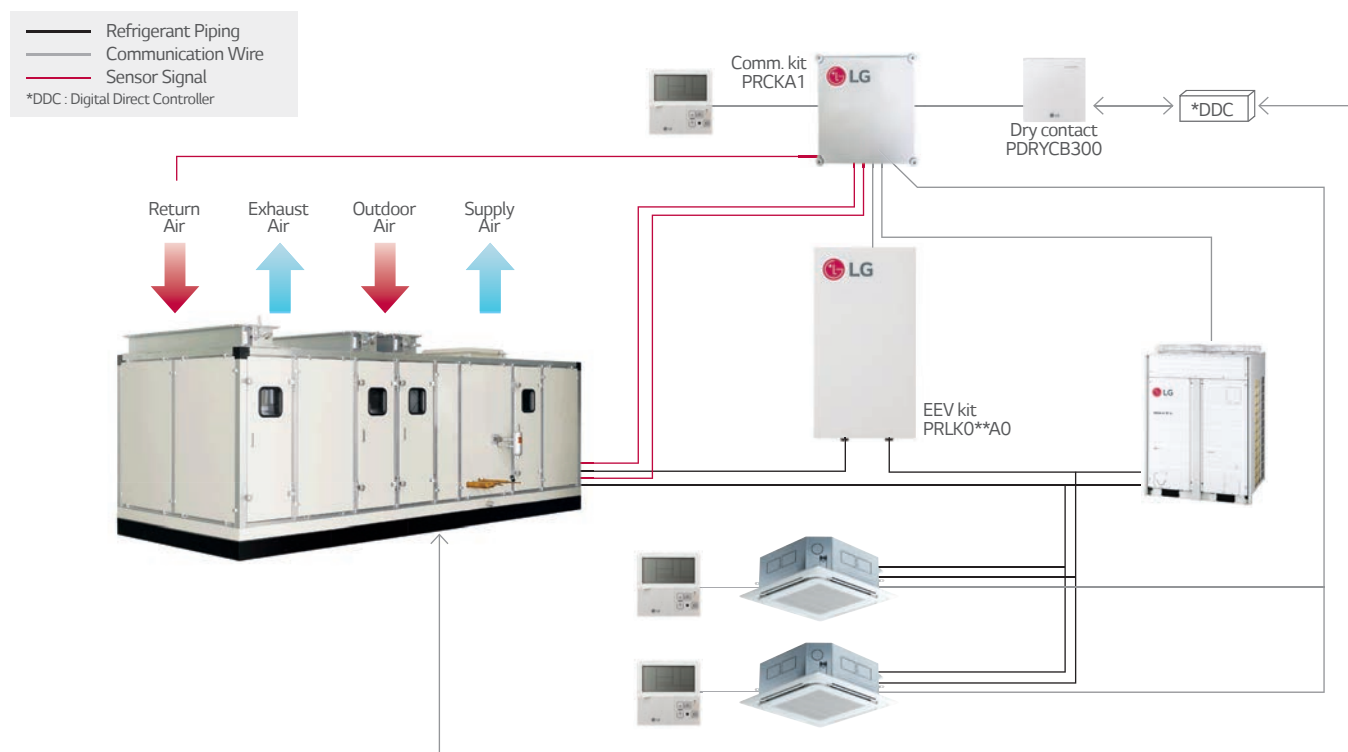
Solution to connect LG outdoor unit on the DX coil of an air handling unit, with LG's high efficient products for maximum cost saving

### Combination

#### • SINGLE SPILT Application



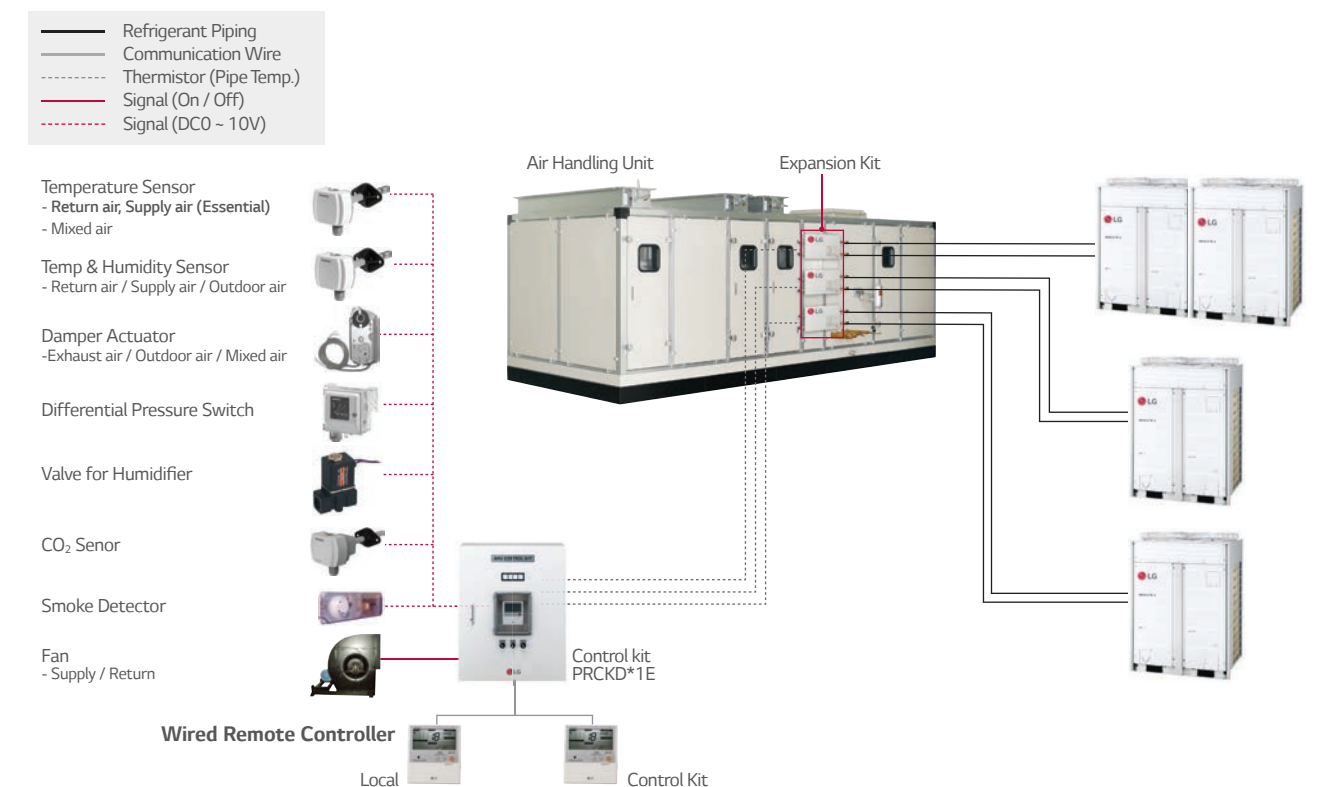
#### • MULTI V Application (in Combination with AC System)



#### • MULTI V Application (Stand Alone)



#### • MULTI V Application (Total AHU Control for Medium to Large Capacity)



# MECHANICAL ACCESSORIES LINE-UP

| Indoor                                                                                                                                                       |                                                                                                                                                                                            | Outdoor                                                                                                                        |                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ceiling Mounted Cassette                                                                                                                                     |                                                                                                                                                                                            | Ceiling Concealed Duct                                                                                                         |                                                                                                                                                                                                                            |
| Auto Elevation Grille<br><br>PTEGM0                                         | Cassette Cover<br><br>PTDCM<br>PTDCQ                                                                      | Suction Grill<br><br>PBSC30 / PBSC40         | Air Guide<br><br>PRAGX350<br>PRAGX250                                                                                                   |
| Cassette Panel<br><br><b>NEW</b> 4 Way Cassette (Compact panel)<br>PT-QCHV0 | Plasma Kit<br><br>PTPKM0<br>PTPKQ0                                                                        | Drain Pump Kit<br><br>ABDPG<br>PBDP9         | Drain Pan<br><br>PRODX20<br>PRODX30<br><b>NEW</b> PHDPA (THERMA V)                                                                      |
| Ventilation Kit<br><br>PTVK410<br>PTVK420<br>PTVK430                       | ETC.                                                                                                                                                                                       |                                                                                                                                | THERMA V                                                                                                                                                                                                                   |
| 4 Way Cassette<br>PT-UQC / PT-UMC1                                                                                                                           |                                                                                                                                                                                            | Refrigerant Leakage Detector<br><br>PRLDNV50 | Solar Heating Kit<br><br>PHLLA                                                                                                         |
| 2 Way Cassette<br>PT-HLC                                                                                                                                     |                                                                                                                                                                                            | Independent Power Module<br><br>PRIPO       | Sanitary Tank Kit<br><br>PHLTA / PHLTC / PHLTB                                                                                        |
| 1 Way Cassette (Grill Type)<br>PT-UUC / PT-UUC1 / PT-UTC (Panel Type)<br>PT-UUD / PT-UTD                                                                     | <b>NEW</b> F7 Filter<br><br>AHFT035H0 (250 / 350CMH)<br>AHFT050H0 (500CMH)<br>AHFT100H0 (800 / 1000CMH) | <b>NEW</b> EEV Kit<br><br>PRGK024A0         | Domestic Hot Water Tank<br><br>LGRTV200E (198 LITERS)<br>LGRTV200VE (198 LITERS)<br>LGRTV300E (198 LITERS)<br>LGRTV300VE (198 LITERS) |
|                                                                                                                                                              |                                                                                                                                                                                            | <b>NEW</b> IR Receiver<br><br>PWLVRN000    |                                                                                                                                                                                                                            |

## Mechanical Accessories Line up and Application

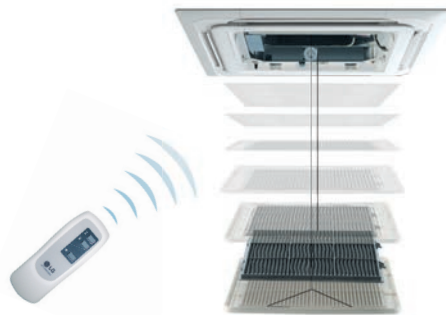
| Type 1  | Type 2                            | SINGLE SPLIT | MULTI | MULTI V | THERMA V | Remark                                     |
|---------|-----------------------------------|--------------|-------|---------|----------|--------------------------------------------|
| INDOOR  | Auto Elevation 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 Grille / Canvas           | -            | -     | •       | -        | Ceiling concealed duct (Built-in)          |
|         | Drain Pump Kit                    | •            | •     | -       | -        | Ceiling concealed duct                     |
|         | Refrigerant Leakage Detection Kit | -            | -     | •       | -        | MULTI V 4 <sup>th</sup> generation indoors |
|         | Independent Power Module          | -            | -     | •       | -        | MULTI V indoor                             |
|         | F7 Filter                         | -            | -     | •       | -        | Energy Recovery Ventilator                 |
| OUTDOOR | EEV Kit                           | -            | -     | •       | -        | MULTI V indoors                            |
|         | IR Receiver                       | •            | •     | •       | -        | Ceiling concealed duct                     |
|         | Air Guide                         | -            | -     | •       | -        | MULTI V outdoor                            |
|         | Drain Pan                         | -            | -     | •       | •        | MULTI V outdoor / THERMA V                 |
|         | Sanitary Tank Kit                 | -            | -     | -       | •        | THERMA V                                   |
|         | Solar Heating Kit                 | -            | -     | -       | •        | 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 grill
  - 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.  
\* PQRCSVLOQW, PQRCSVLSL0, PREMTB001, PREMTB01

## Models Applied

- 4 Way Cassette : SINGLE SPILT, MULTI SPLIT, MULTI V (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       | Gloss | Weight (kg) | Dimension (mm) |    |     | Applied model |             |            |
|------------|----------|------------------|-------------|-------|-------------|----------------|----|-----|---------------|-------------|------------|
|            |          |                  |             |       |             | W              | H  | D   | SINGLE SPLIT  | MULTI SPLIT | MULTI V    |
| 4-way      | PT-QCHW0 | Horizontal Grill | Morning fog | X     | 3.0         | 620            | 20 | 620 | -             | -           | 1.5~5.0kw  |
|            | PT-UQC   | Horizontal Grill | Morning fog | X     | 3.0         | 700            | 22 | 700 | 2.5~5.0kw     | 1.5~5.0kw   | 1.5~5.0kw  |
|            | PT-UMC1  | Horizontal Grill | Morning fog | X     | 5.6         | 950            | 25 | 950 | 7.1~15.0kw    | 7.1kw       | 7.1~14.0kw |
| 2-way      | PT-HLC   | Grill            | Morning fog | X     | 4.0         | 1,050          | 28 | 640 | -             | -           | 5.0~7.1kw  |
|            | PT-UUC   | Grill            | White       | O     | 4.6         | 1,100          | 34 | 500 | -             | -           | 2.1~3.5kw  |
| 1-way      | PT-UUC1  | Grill            | Morning fog | X     | 4.4         | 1,100          | 34 | 500 |               | 2.5~3.5kw   | 2.5~3.5kw  |
|            | PT-UTC   | Grill            | White       | O     | 5.5         | 1,420          | 34 | 500 | -             | -           | 5.0~7.1kw  |
|            | PT-UUD   | Panel            | White       | O     | 4.6         | 1,100          | 34 | 500 | -             | -           | 2.1~3.5kw  |
|            | PT-UTD   | Panel            | White       | 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<br>(2.5/3.5/5.0kw : PTPKQ0)<br>(7.1kw~15.0kw : PTPKM0) | Option<br>(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



## Features

- The ventilation kit can be supplied air from outside.

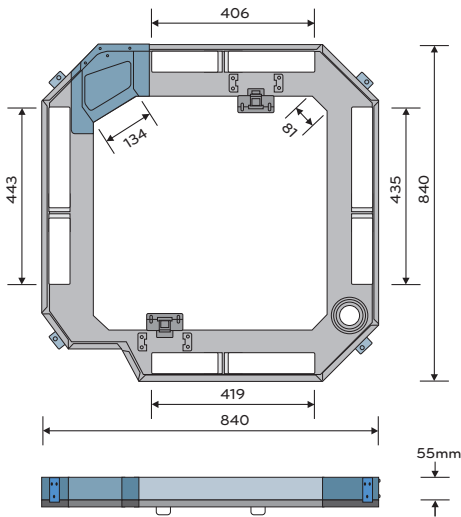
## Models Applied

- 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.

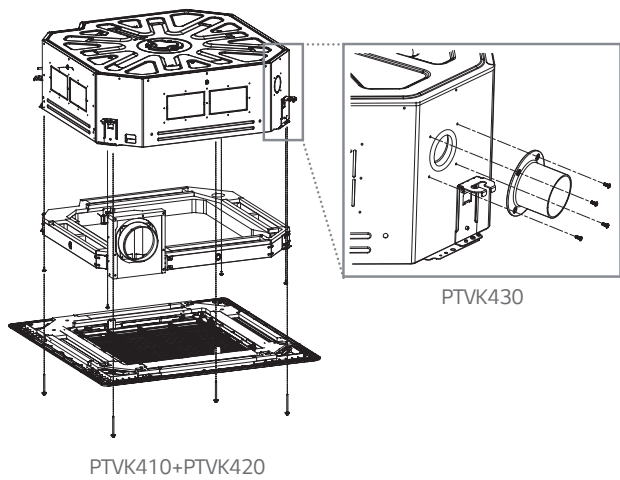
## Parts Included

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

## Dimensions



## Assembly Diagram



# SUCTION GRILLE / CANVAS

High flexibility for a wide variety of applications

PBSGB30  
PBSGB40  
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           |

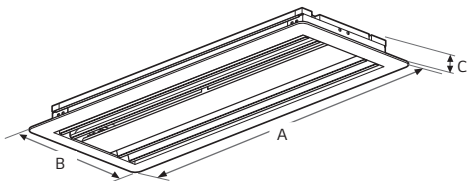
# SUCTION GRILLE / CANVAS

High flexibility for a wide variety of applications

## Parts Included

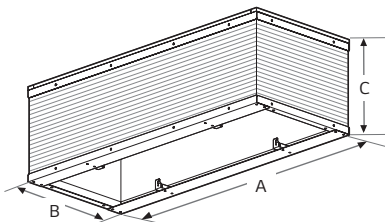
- For the suction grille :
    - Suction panel with air filter (1EA)
    - Suction panel fix bolt M5x18 (4EA)
    - Installation manual (1EA)
- For the suction canvas :
    - Air suction canvas (1EA)
    - Screws for air suction canvas (4EA)
    - Adjusting chain (4EA)
    - Screws for adjusting chain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

## Dimensions



(Unit : mm)

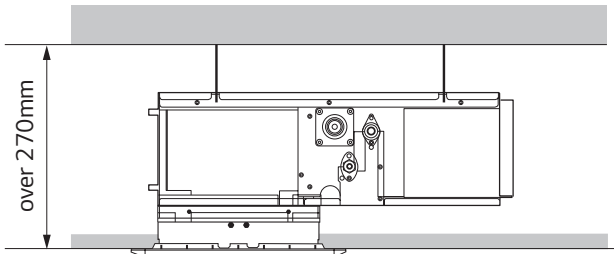
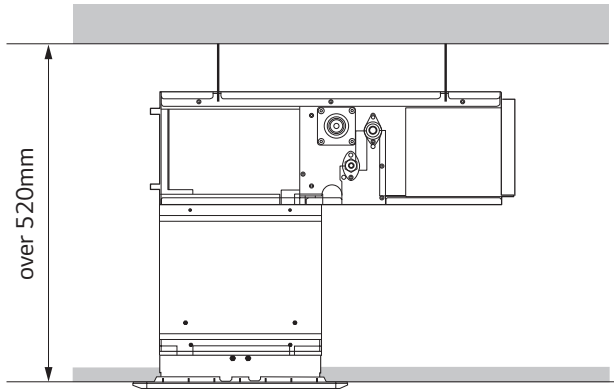
| Model Name | A    | B   | C  |
|------------|------|-----|----|
| PBSGB30    | 910  | 359 | 56 |
| PBSGB40    | 1188 | 359 | 56 |



(Unit : mm)

| Model Name | A    | B   | C      |
|------------|------|-----|--------|
| PBSC30     | 821  | 274 | 42-250 |
| PBSC40     | 1100 | 274 | 42-250 |

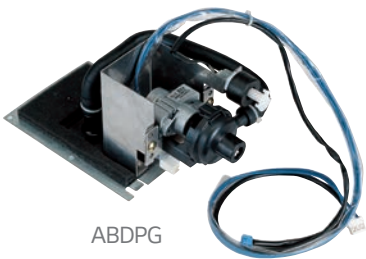
## Application



# DRAIN PUMP KIT

Drains away condensed water

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      |
|                      | Econo Inverter    |             | ABDPG      |
| Multi V              |                   |             | Included   |

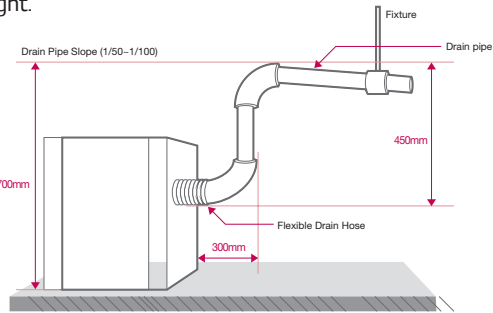
## Application

- 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)

NEW

# F7 FILTER

AHFT035H0  
AHFT050H0  
AHFT100H0



# REFRIGERANT LEAKAGE DETECTOR

R410A refrigerant leakage detector makes more safe our space

PRLDNVS0



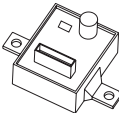
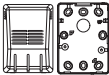
## Features

- This detector senses refrigerant leakage and when the refrigerant concentration exceeds over 6,000ppm not only stopping the indoor unit operation but also giving a alarm signaling 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 goes off, 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.

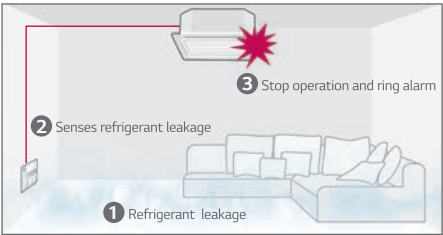
## Models Applied

- New 4<sup>th</sup> generation indoor units only
- More detailed information refer to the “MULTI V INDOOR UNIT LINE UP & FEATURES OVERVIEW” page. (86~87page)

## Specifications

| Parts                                                                                                                    |                                        | Specifications       |  |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------|--|
| <div>Sensor</div>                   | Rated Voltage (V)                      | DC 5.0 ± 5%          |  |
|                                                                                                                          | Dimensions (WxHxD, mm)                 | 31x44x20             |  |
|                                                                                                                          | 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            |  |
|                                                                                                                          | Average power consumption (mA)         | 35                   |  |
| <div>Connecting cable</div>         | Cable length (m)                       | 10                   |  |
| <div>Sensor protective cover</div>  | Dimensions of Front Plate ( WxHxD, mm) | 80x110x44.6          |  |
|                                                                                                                          | Dimension of Backplate (WxHxD, mm)     | 80x110x6.5           |  |

## Application



NEW

# EEV KIT

PRGK024A0



## Features

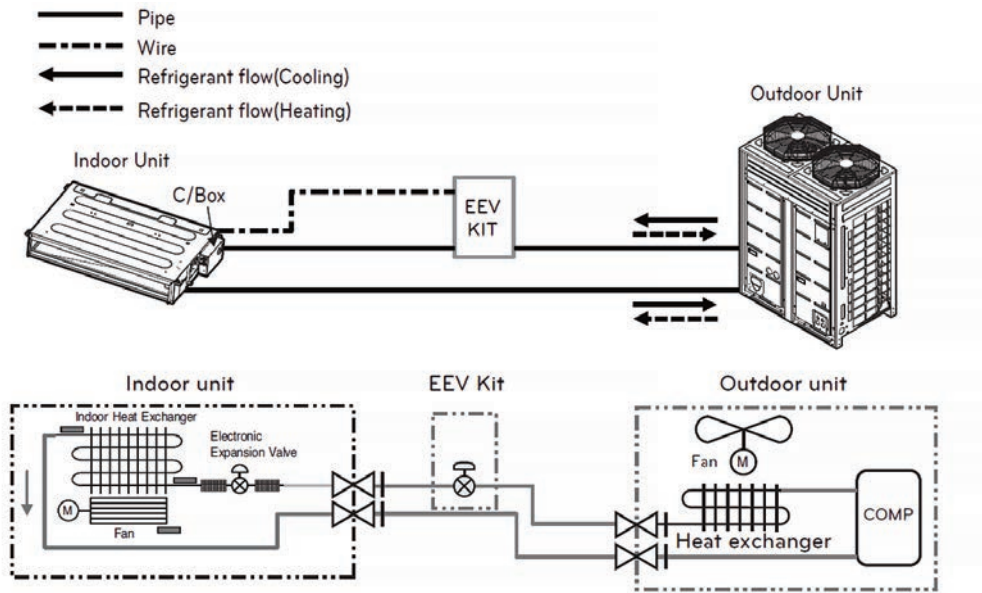
- Decreasing noise level of Multi V Indoor units
- Easy installation

## 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

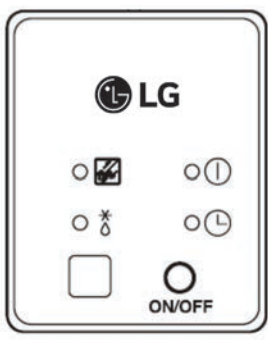


Note : If you don't use EEV of same specification, Cooling (Heating) capacity may decrease.

NEW

# IR RECEIVER

PWLRVN000



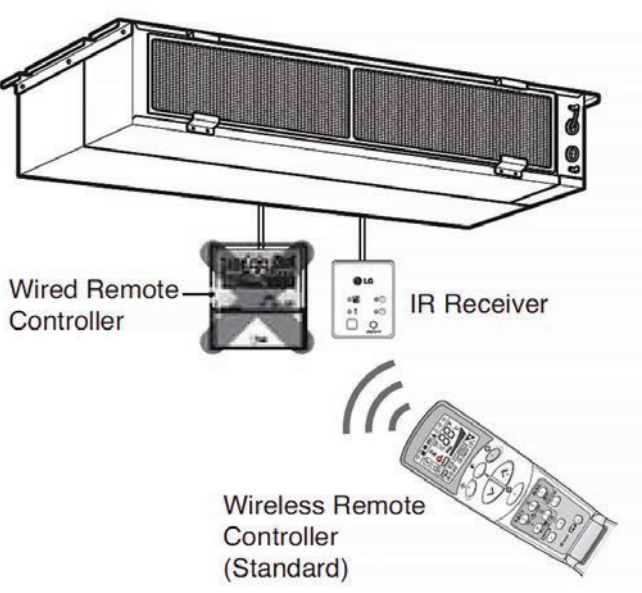
## Features

- 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

PRIP0

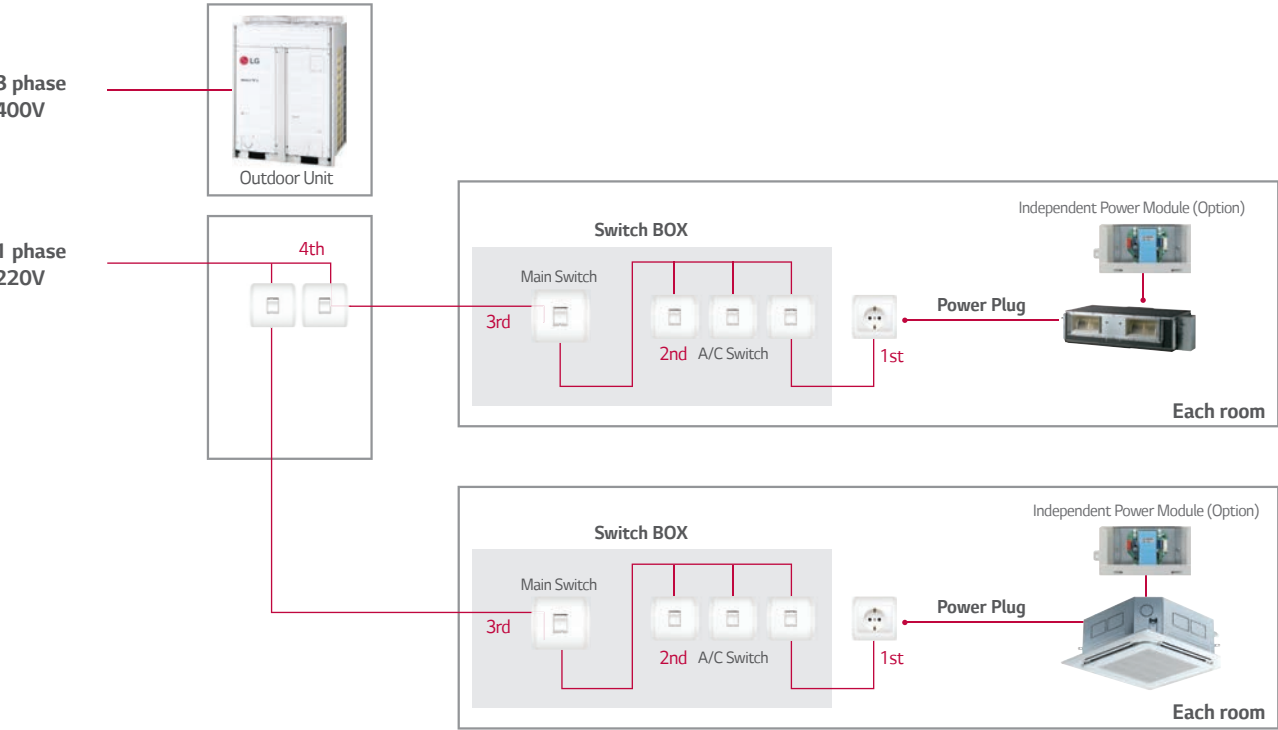


## Features

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

## Models Applied

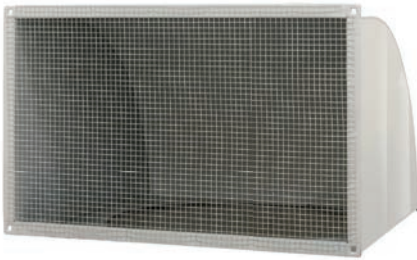
- MULTI V Indoors



# 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

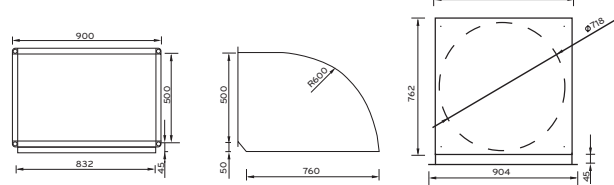
- MULTI V IV (UX2, UX3)

\* In case of UX3, must purchase 2 units of PRAGX3S0.

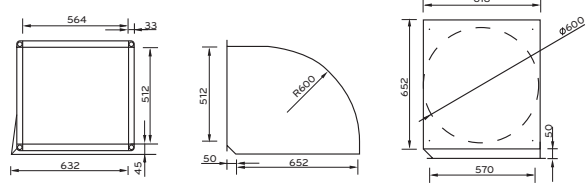
## Dimensions

| 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

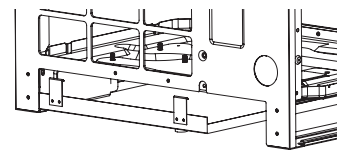
PHDPA (AWHP)



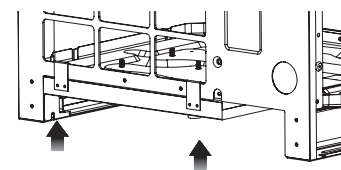
## Features

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

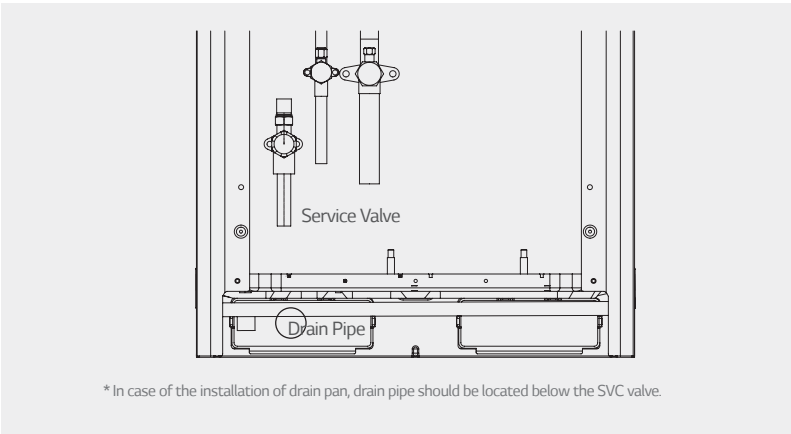
## Installation



\* Tuck drain pan below base pan



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



- 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   | Length | Remark |
|--------------|--------|--------|
| PRODX20      | 920mm  | UX2    |
| PRODX30      | 1240mm | UX3    |
| PHDPA (AWHP) | 478mm  |        |

# SOLAR HEATING KIT

PHLLA

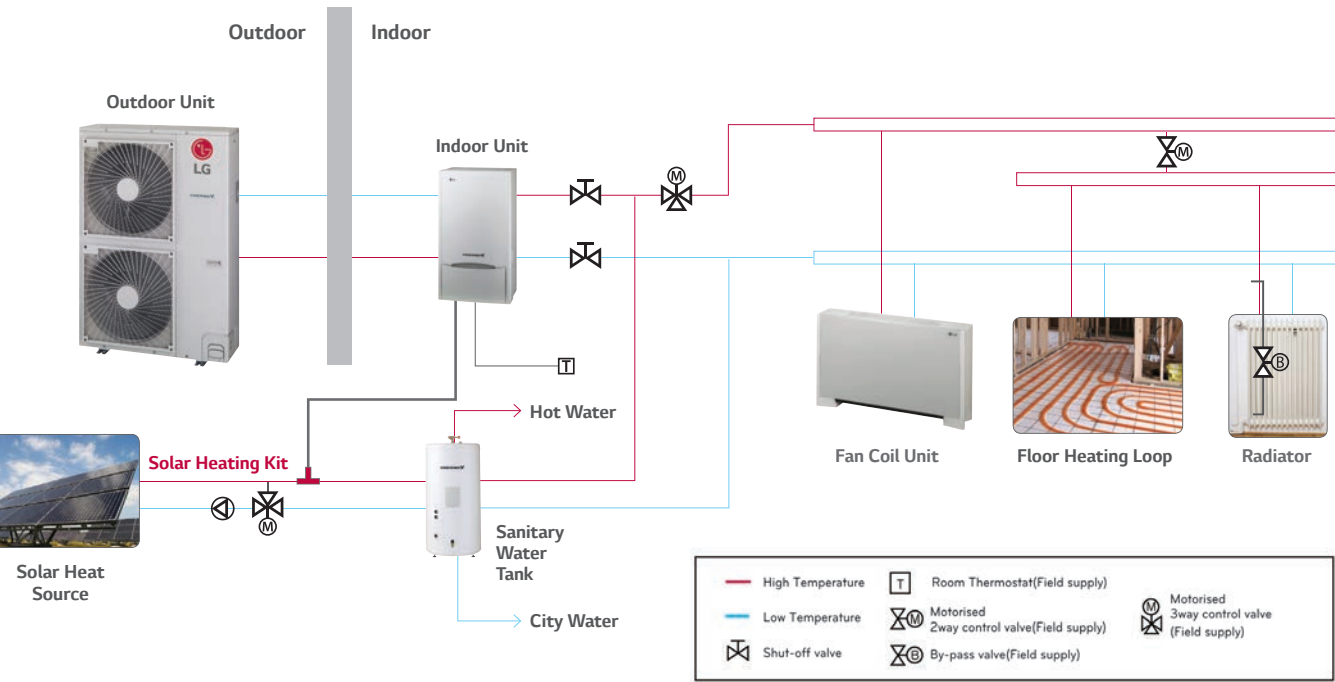


## Features

- 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 (HxWxD, mm) : 110x55x22
- According to solar system's water temperature, THERMA V controls 3 way valve's direction

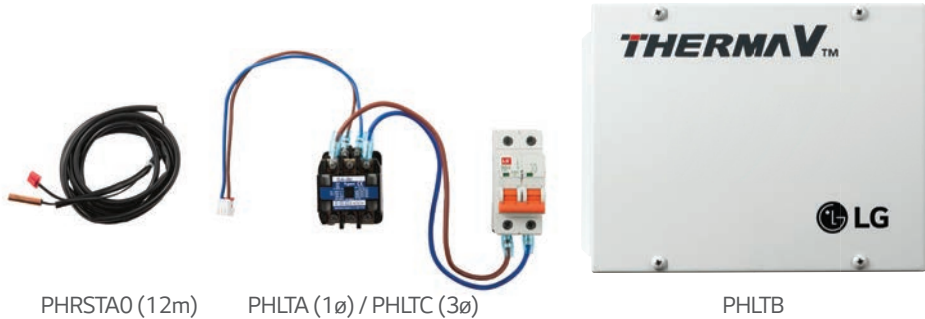
## Combination

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



# SANITARY TANK KIT

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



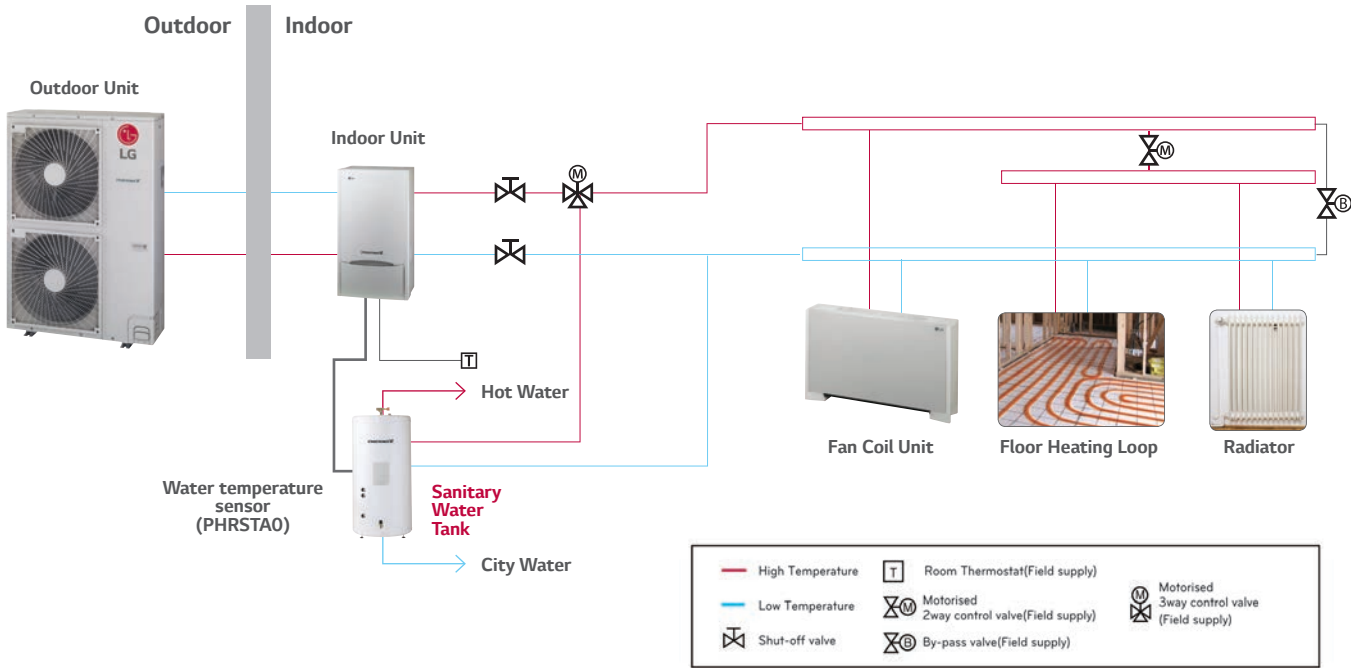
\* The sensor (PHRSTAO) can be purchased separately in case of using other brand's sanitary tank. PHRSTAO is included in PHLTA, PHLTC, PHLTB.

## 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.

## Combination

- 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

## Combination

- 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 |
|------------------------------------------|-------|-------|
|------------------------------------------|-------|-------|

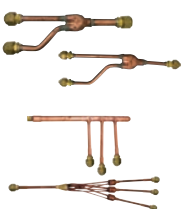
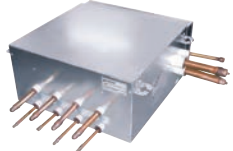
- Domestic Hot Water Tank - Double Coil

| 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)<br><br>2 Units PMUB11A<br>3 Units PMUB111A<br>4 Units PMUB1111A | Branch Distributor<br><br>PMBD3620<br>PMBD3630<br>PMBD3640<br><br>Y Branch and Branch Kit<br><br>2 Units PMBL3620<br>PMBL5620<br>2 Units PMBL1203F0 | Heat Recovery Unit<br><br>PRHR022<br>PRHR032<br>PRHR042<br><br>Y Branch and Header Branch<br> | Refrigerant Charging Kit<br><br>PRAC1<br><br>Stopper Valve<br><br>PRVT120<br>PRVT780<br>PRVT980<br><br>Drain Hose<br><br>PHDHA05T<br>PHDHA07T<br>PHDHA05B<br>PHDHA07B |

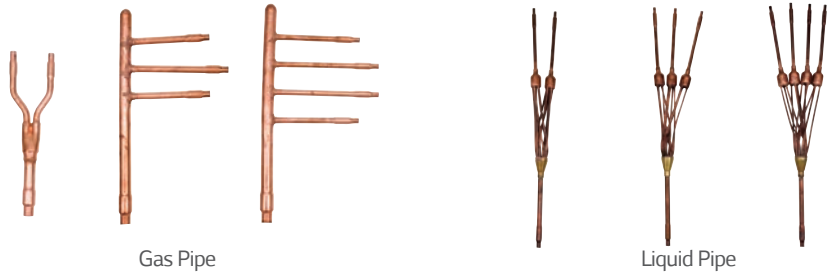
## Mechanical Accessories Line up and Application

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

# Y BRANCH AND HEADER BRANCH SYNCHRO

Refrigerant distribution channel

2 Units  
PMUB11A  
3 Units  
PMUB111A  
4 Units  
PMUB1111A



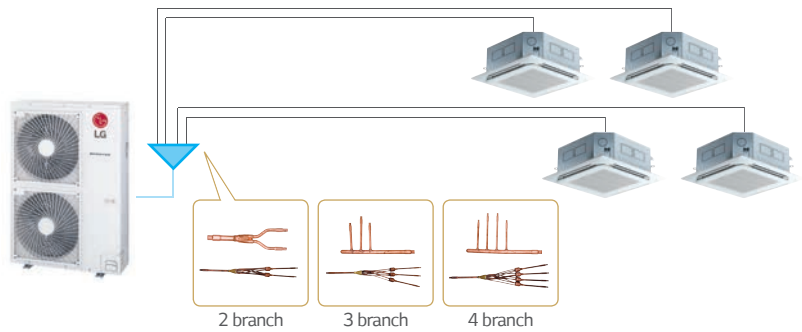
## Features

- 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

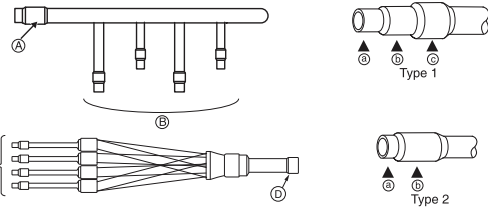
- H-inverter : 10.0 / 12.5 / 13.4kw
- Standard inverter : 12.5 / 14.0 / 15.0 / 20.0 / 25.0kw

## 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)<br>Ø12.7(1/2) | Ø12.7(1/2)<br>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

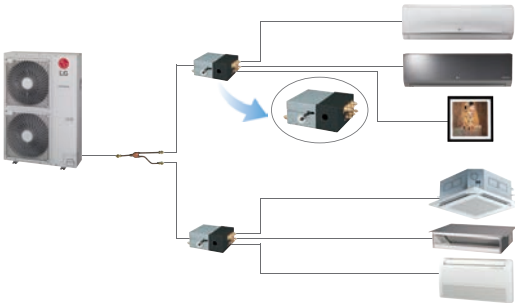
- Distribution of refrigerant to various indoor units
- 3 models (2, 3, 4 indoor units)
- Consists of LEVs inside it
- Controlling PCB inside the unit
- Internally insulated (prevents any chances of drainage)
- Flare joints for easy and clean installation
- Compact design (low height)
- Flexible installation

## 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)



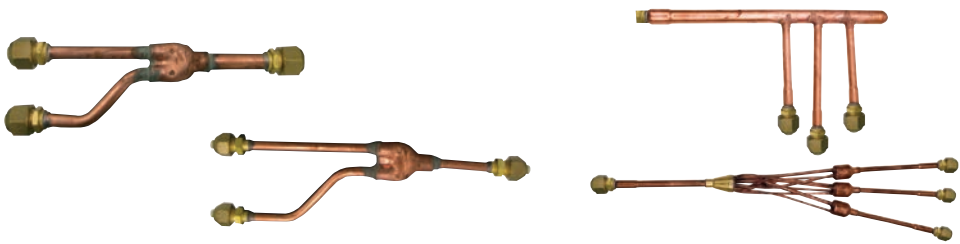
## Specifications

| 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)       | 302x143x252          | 302x143x252          | 302x143x252          |
| Packing Dimensions               | (W x H x D) (mm)       | 422x202x300          | 422x202x300          | 422x202x300          |
| Net Weight                       |                        | 4.8                  | 4.9                  | 5.0                  |
| Connecting Cable                 | Indoor Unit No. x mm²  | 4x0.75               | 4x0.75               | 4x0.75               |
|                                  | Outdoor Unit No. x mm² | 4x0.75               | c                    | 4x0.75               |
| 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)            | 6.35x2               | 6.35x3               | 6.35x4               |
|                                  | Gas (mm)               | 9.52x2               | 9.52x3               | 9.52x4               |
| 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



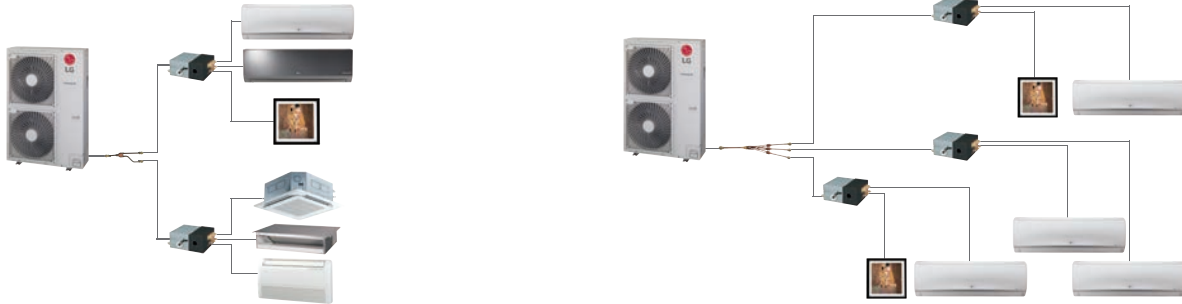
## Features

- 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

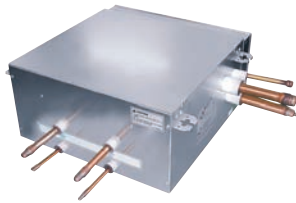
- Y Branch for gas side and liquid side (1set)
- Installation manual (1EA)

## Accessory Model Name

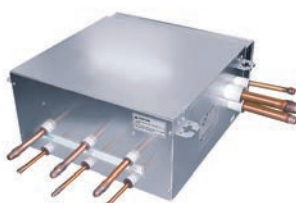
| Model Name | No. of Branch Distribution Units | Applicable Model   | Specifications (Unit : mm) |        |
|------------|----------------------------------|--------------------|----------------------------|--------|
|            |                                  |                    | Gas                        | Liquid |
| PMBL3620   | 2 units                          | Only 3ø, 36k Btu/h |                            |        |
| PMBL5620   | 2 units                          | 1ø, 3ø             |                            |        |
| PMBL1203F0 | 3 units                          | 1ø, 3ø             |                            |        |

# HEAT RECOVERY UNIT

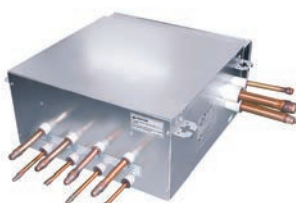
PRHR022  
PRHR032  
PRHR042



PRHR022  
(2 branch Unit)



PRHR032  
(3 branch Unit)



PRHR042  
(4 branch Unit)

## 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

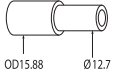
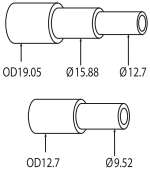
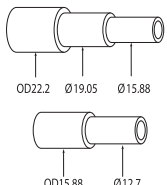
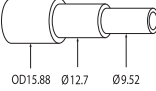
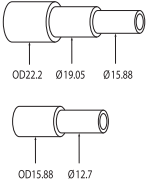
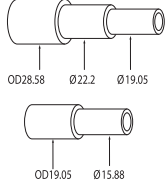
| Model name                                                     |              |               |            | PRHR022          | PRHR032          | PRHR042          |
|----------------------------------------------------------------|--------------|---------------|------------|------------------|------------------|------------------|
| 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         | 801x218x617      | 801x218x617      | 801x218x617      |
| Piping connections                                             | Indoor Unit  | Liquid        | mm (inch)  | 9.52 (3/8)       | 9.52 (3/8)       | 9.52 (3/8)       |
|                                                                |              | Gas           | mm (inch)  | 15.88 (5/8)      | 422x202x300      | 422x202x300      |
|                                                                | 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)       |
| Y Branch and Header Branch (MULTI V)                           |              |               | 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

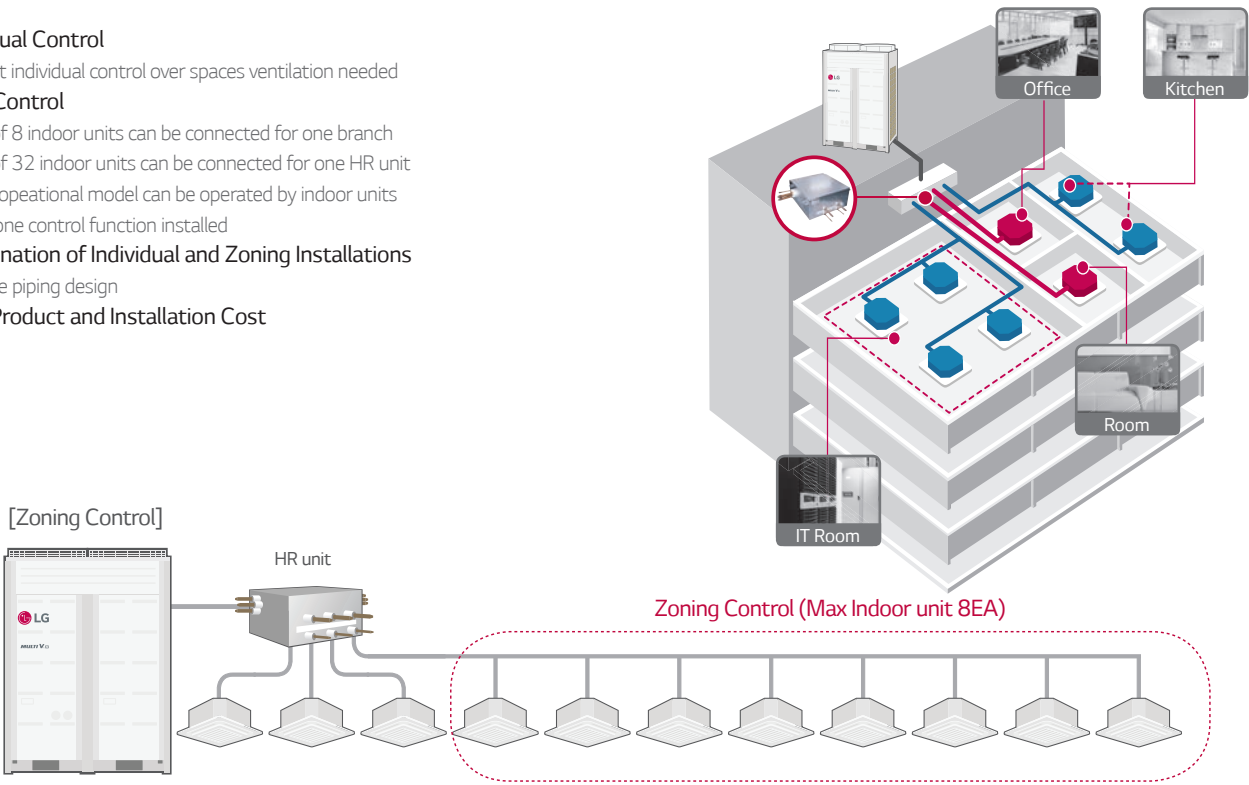
(Unit : mm)

| Model Name          |                   | Liquid                                                                                                      | High pressure                                                                                                                 | Low pressure                                                                                                                   |
|---------------------|-------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Indoor unit reducer |                   | <br>OD9.52 Ø6.35         |                                                                                                                               | <br>OD15.88 Ø12.7                           |
| HR unit reducer     | PRHR022           | <br>OD9.52 Ø6.35         | <br>OD19.05 Ø15.88 Ø12.7<br>OD12.7 Ø9.52   | <br>OD22.2 Ø19.05 Ø15.88<br>OD15.88 Ø12.7   |
|                     | PRHR032 / PRHR042 | <br>OD15.88 Ø12.7 Ø9.52 | <br>OD22.2 Ø19.05 Ø15.88<br>OD15.88 Ø12.7 | <br>OD28.58 Ø22.2 Ø19.05<br>OD19.05 Ø15.88 |

## Convenient Free Zoning

MULTI V III 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™)

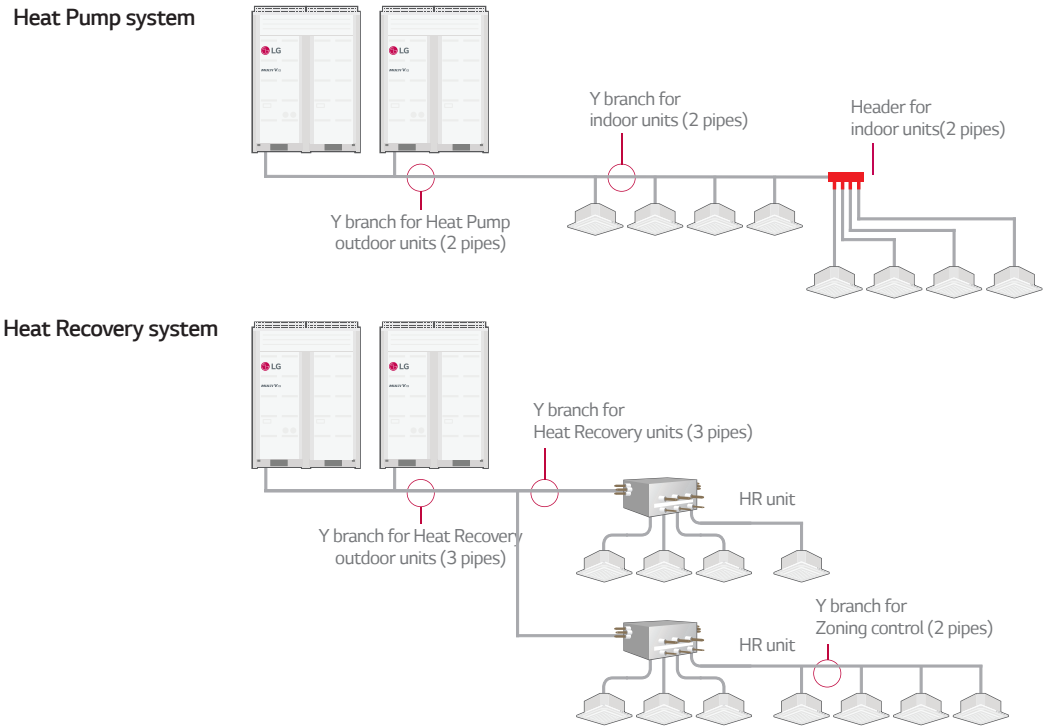
For refrigerant distribution of indoor units



## 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      | Low Pressure Gas pipe | Liquid pipe |
| ARCNN21         |                       |             |

| 3 Outdoor Units |                       |             |
|-----------------|-----------------------|-------------|
| Model Name      | Low Pressure Gas pipe | Liquid pipe |
| ARCNN31         |                       |             |

| 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         |                       |             |                        |

# PIPING ACCESSORIES

## Y Branch pipe for connection of outdoor units

[Heat Pump, Heat Recovery zone control]

- **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)

| Model Name | Gas pipe | Liquid pipe |
|------------|----------|-------------|
| ARBLN01621 |          |             |
| ARBLN03321 |          |             |

- **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)

| Model Name | Gas pipe | Liquid pipe |
|------------|----------|-------------|
| ARBLN07121 |          |             |
| ARBLN14521 |          |             |

- **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)

| Model Name | Low Pressure Gas pipe | Liquid pipe |
|------------|-----------------------|-------------|
| ARBLN23220 |                       |             |

[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)

| Model Name | Low Pressure Gas pipe | Liquid pipe | High Pressure Gas pipe |
|------------|-----------------------|-------------|------------------------|
| ARBLB01621 |                       |             |                        |
| ARBLB03321 |                       |             |                        |
| ARBLB07121 |                       |             |                        |
| ARBLB14521 |                       |             |                        |

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

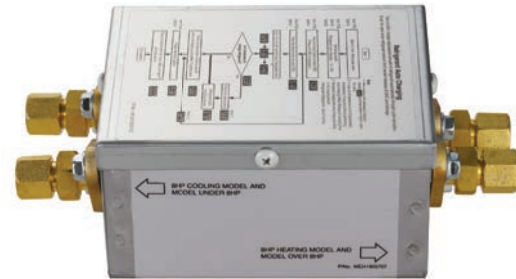
(Unit : mm)

| Model Name | Low Pressure Gas pipe | Liquid pipe | High Pressure Gas pipe |
|------------|-----------------------|-------------|------------------------|
| ARBLB23220 |                       |             |                        |

# REFRIGERANT CHARGING KIT

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

PRAC1

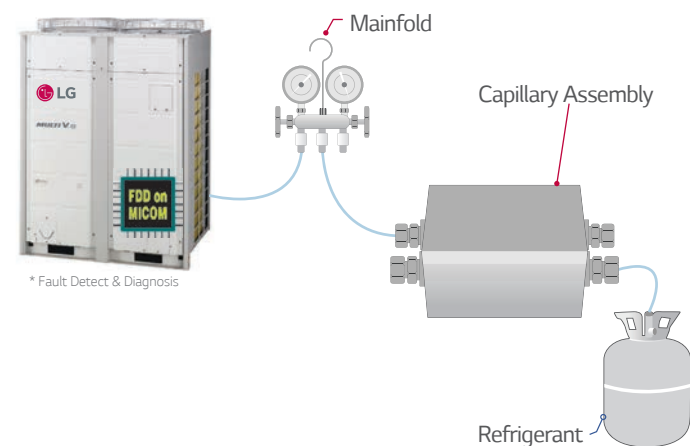


## Features

- 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



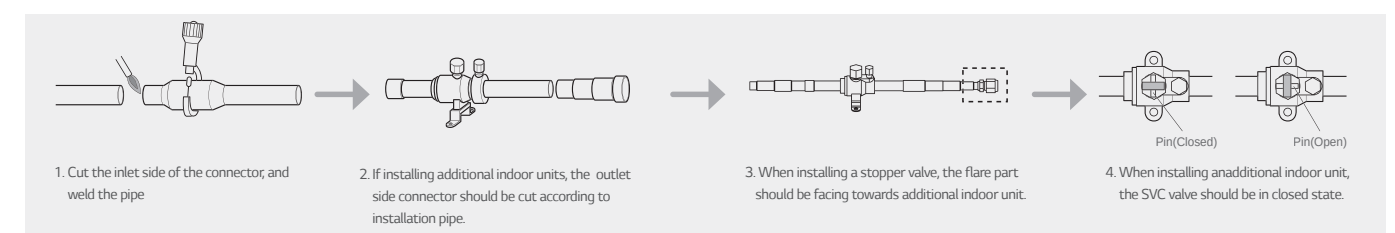
## Features

| Model Name | Specification                                                                                                                                                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PRVT120    | <p>Input → → Output (Indoor unit)</p> <p>Diagram showing the PRVT120 refrigerant pipe with dimensions: ID6.35, OD6.52, ID12.7, ID12.7, ID6.35.</p>             |
| PRVT780    | <p>Input → → Output (Indoor unit)</p> <p>Diagram showing the PRVT780 refrigerant pipe with dimensions: ID15.88, ID19.05, ID22.2, ID22.2, ID19.05, ID15.88.</p> |
| PRVT980    | <p>Input → → Output (Indoor unit)</p> <p>Diagram showing the PRVT980 refrigerant pipe with dimensions: ID28.58, ID28.58.</p>                                   |

## 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

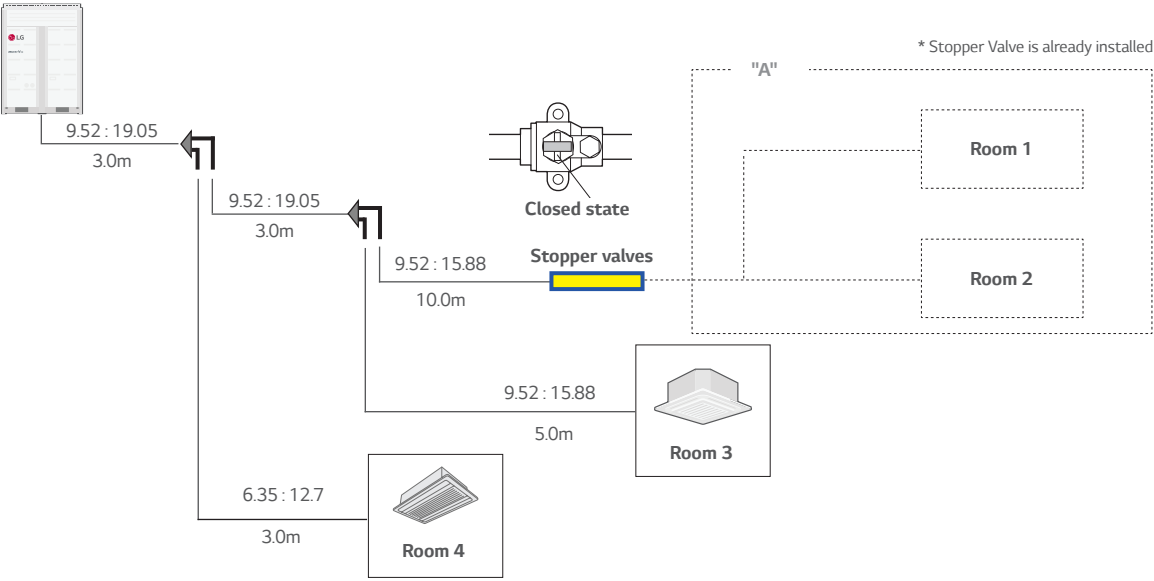


\* When welding, service valve should be wrapped by wet cloth.

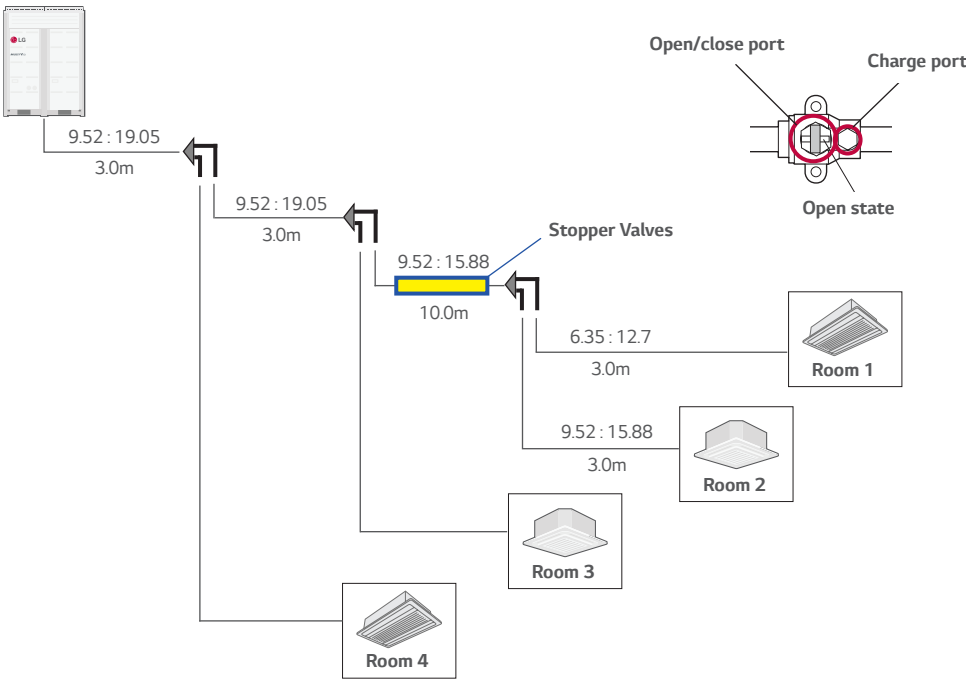
# STOPPER VALVES

## Details of Model Name

- Case1  
(Room 3 & 4 : in use / Room 1 & 2 : need to install indoor units)



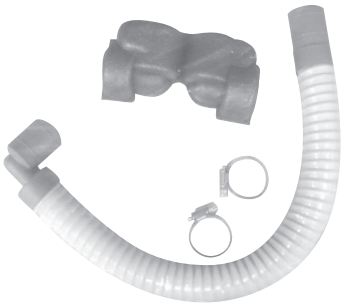
- In case of installation of additional indoor unit, refrigerant of used indoor unit must be discharged. (Room3 & Room4)
- If stopper valve is already installed, you can install additional indoor unit without refrigerant loss from the entire system.
- After installation of additional indoor unit, you just need refrigerant charging for "A" section.
- Then, open the Stopper Valve.



# DRAIN HOSE

Easy drain installation

PHDHA05T  
PHDHA07T  
PHDHA05B  
PHDHA07B

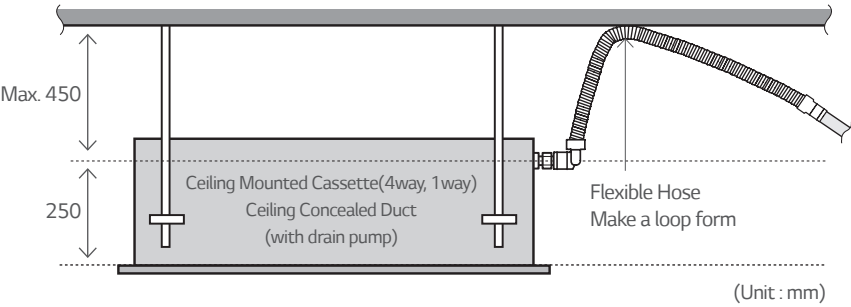


## Features

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. (Next page)

| Controller |                                      |                                                                                     | Product                                                                             | Controller                                                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|------------|--------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|            |                                      |                                                                                     |                                                                                     | Premium                                                                           | Standard II                                                                       |                                                                                   | Simple                                                                            |                                                                                   | Simple for Hotel                                                                  |                                                                                   | Wireless                                                                           | Dry Contact                                                                         |                                                                                     |                                                                                     |                                                                                     | Wi-Fi                                                                               |
|            |                                      |                                                                                     |                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|            |                                      |                                                                                     |                                                                                     | PREMTA000<br>PREMTA000A<br>PREMTA000B                                             | PREMTB001                                                                         | PREMTB001                                                                         | PQRCVCLOQ                                                                         | PQRCVCQW                                                                          | PQRCHCAQ                                                                          | PQRCHCAQW                                                                         | PQWRH00FDB                                                                         | Simple Dry Contact<br>PDRYCB000                                                     | 2 points Dry Contact<br>PDRYCB400                                                   | Dry Contact for Thermostat<br>PDRYCB300                                             | For Modbus<br>PDRYCB500                                                             |                                                                                     |
| MULTI V    | Ceiling Mounted Cassette             |    | ARNU-C4                                                                             | ●                                                                                 | ○                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |
|            |                                      |    | ARNU-C4                                                                             | ●                                                                                 | ○                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |
|            | Ceiling Concealed Duct               |    | ARNU-A2                                                                             | ●                                                                                 | ○                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ▲                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |
|            |                                      |    | ARNU-A4                                                                             | ●                                                                                 | ○                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ▲                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |
|            |                                      |  | ARNU-G4                                                                             | ●                                                                                 | ○                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ▲                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |
|            |                                      |  | ARNU-G4                                                                             | ●                                                                                 | ○                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ▲                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |
|            | FAU (Fresh Air intake Unit)          |  | 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 <sup>1)</sup>                                                               | ●                                                                                 | ●                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |
|            |                                      |  | ARNU-L4                                                                             | ●                                                                                 | ○                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |
|            | HYDRO KIT <sup>2)</sup>              |                                                                                     |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | 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                                                                                 | X                                                                                 |                                                                                   | X                                                                                 |                                                                                   | X                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | X                                                                                   | 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

| Model        |                                      |                                                                                       |                                                                                       | Controller                                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Dry Contact                                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|--------------|--------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                                      |                                                                                       |                                                                                       | Premium                                                                               | Standard II                                                                         |                                                                                     | Simple                                                                              |                                                                                     | Simple for Hotel                                                                    |                                                                                     | Wireless                                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|              |                                      |                                                                                       |                                                                                       |    |  |  |  |  |  |  |  |  |  |  |  |
|              |                                      |                                                                                       |                                                                                       | PREMTA000<br>PREMTA000A<br>PREMTA000B                                                 | PREMTB001                                                                           | PREMTB001                                                                           | PQRCVCLOQ                                                                           | PQRCVCQW                                                                            | PQRCHCAQ                                                                            | PQRCHCAQW                                                                           | PQWRH00FDB                                                                          | Simple Dry Contact<br>PDRYCB000                                                     | 2 points Dry Contact<br>PDRYCB400                                                   | Dry Contact for Thermostat<br>PDRYCB300                                             | For Modbus<br>PDRYCB500                                                             |
| 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                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|              |                                      | High Temp.                                                                            |  |                                                                                       |                                                                                     |                                                                                     |                                                                                     | ●                                                                                   | X                                                                                   | X                                                                                   | X                                                                                   | X                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|              | Monobloc                             |                                                                                       |  |                                                                                       |                                                                                     |                                                                                     |                                                                                     | ●                                                                                   | X                                                                                   | X                                                                                   | X                                                                                   | X                                                                                   |                                                                                     |                                                                                     |                                                                                     |

# FEATURES OVERVIEW

[illegible]

1) If 4<sup>th</sup> generation indoors are connected to MULTIV WATER S outdoor, some of function will not be activated. 2) If 4<sup>th</sup> generation indoors are connected to 2<sup>nd</sup> generation indoors, some of function will not be activated.  
→ More detailed information, refer to the "MULTIV INDOOR COMPATIBILITY" page. (138-139p)

# LG Electronics Introduction

LG Electronics is a total heating, ventilation and air conditioning (HVAC) and energy solution company, providing a full lineup of products including Residential Air Conditioning (RAC), System Air Conditioning (SAC), CHILLER, Building Management Systems (BMS) around the world.



Residential  
Air Conditioner



System  
Air Conditioner



Chiller

# Company Milestone

LG's consistent efforts in innovation have made LG Air Conditioning and Energy Solution a true global leader in HVAC businesses.

