

# LG HVAC SOLUTION

## ***MULTI V™ 5***

### INDOOR UNITS

INDOOR UNITS  
HOT WATER SOLUTION  
VENTILATION SOLUTION



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## INDOOR UNIT

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# ENGINEERING CAPABILITY :HVAC TOOL & SUPPORT

From planning to service & maintenance and then to de-construction, an architectural project goes along many stages from the beginning to the end of its lifecycle. Along those stages, various engineering tools are applied to solve the diverse issues happening in each stage, with the most optimal solution possible. Due to the usage of such tools, buildings are effectively designed, built, supervised, and maintained throughout the lifecycle.

Dedicated to provide exceptional HVAC engineering support, LG Electronics Air-Solution Business Unit offers several engineering tools and solutions focused on HVAC, during the overall lifecycle of a building, related to the three categories: I. Draft Energy Estimation, II. Model Selection & Design, and III. Installation Environment Simulation. Among them, the LATS\* Program series has been developed to offer optimised tool for LG HVAC systems, providing our customers a fast, easy, and accurate way in everyday duties of Model-selection, Draft Energy Estimation & Designing, and many more.

## \* LATS : LG Air-conditioner Technical Solution



I

**Energy Estimation**



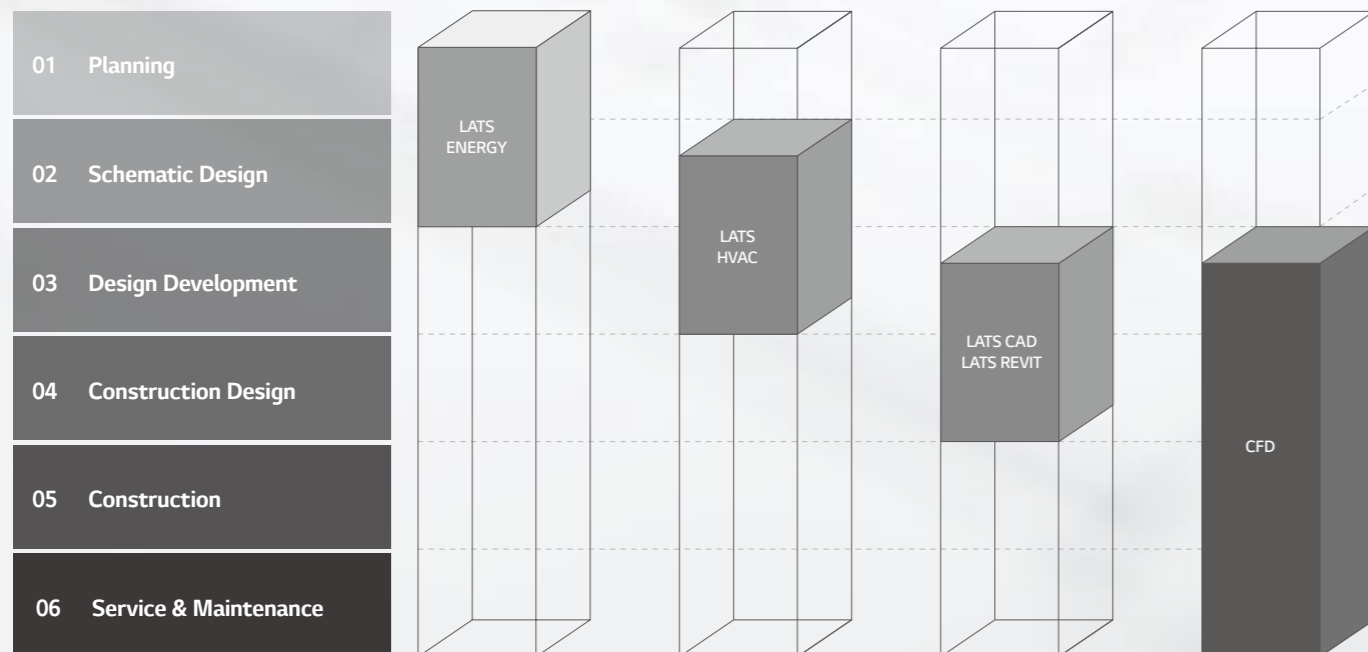
II

**Model Selection & Design**



III

**Installation Environment Simulation**



## 01 Draft Energy Estimation

### LATS Energy

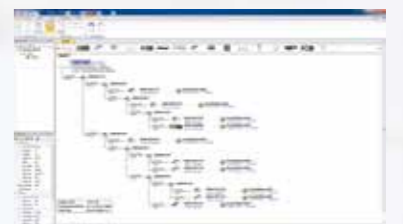
LATS Energy program is a draft energy estimation program, self-developed by LG. This program helps estimate the draft energy usage and analyses the life cycle cost of LG VRF models during the early stage of a project.



## 02 Model Selection

### LATS HVAC

LATS HVAC is an integrated model selection program of LG HVAC products, enabling an accurate and quick selection on the best model suitable to each sites. In addition to model selection, faster estimation on refrigerant piping diameter and additional refrigerant is possible, along with auto printing of reports.



## 03 Design

### LATS CAD

LATS CAD enables faster and a more accurate design of LG HVAC products. Moreover, it offers not only designing, but also quotation and installation review in order to minimise problems during installation processes.



### LATS Revit

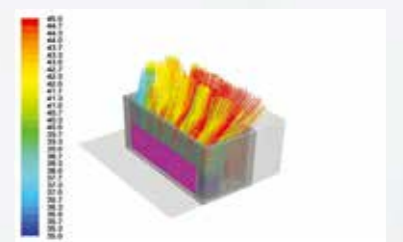
LATS REVIT is developed to make 3D designing of LG HVAC products easier than the previous program. It enables engineers to check 3D images from designing stage and prevents possible issues of the installation stage.



## 04 Installation Environment Simulation

### CFD Analysis

CFD Analysis is applied in areas of estimating: indoor airflow and temperature distribution while operating VRF products, outdoor airflow distribution, and noise level. By running a simulation before construction, engineers estimate possible issues and find optimal solutions of malfunction that could occur after construction.





# LG CONTROL SOLUTION

MULTI V 5 offers a diverse range of effective control solutions that satisfy specific needs of each building and its user scene. These controlling systems are equipped with user friendly interface, flexible interlocking environment, energy management and smart individual controller for optimised controlling conditions and smart building management.

## HOTEL

Hotel Room Solution



## OFFICE

Central Control Solution

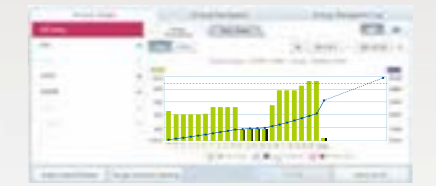


3<sup>rd</sup> Party BMS



Service/Maintenance

· Energy Management



· External Device



## APARTMENT

Power Distribution Solution



## RESIDENTIAL

Smart Individual Control Solution



## SMALL BUILDING

Small Central Control Solution



Integration Solution



reddot award  
User Interface Design

\*2016 AC Manager 5

# INDOOR UNIT









WALL MOUNTED UNIT / CEILING MOUNTED CASSETTE / CEILING CONCEALED DUCT  
FRESH AIR INTAKE UNIT / CEILING SUSPENDED UNIT / COMPATIBILITY





INDOOR UNIT  
**LINE-UP**

kW		1.5	2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	14.1	15.8	22.4	28.0
Type	Btu/h	5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	76k	96k
Artcool Mirror		•	•	•	•	•	•		•								
Standard		•	•	•	•	•	•		•		•	•					
Ceiling Mounted Cassette	4 Way Cassette (570 x 570)	•	•	•	•	•	•	•									
	4 Way Cassette (840 x 840)								•	•	•	•	•	•	•		
	2 Way Cassette			•	•		•		•								
	1 Way Cassette		•	•	•		•		•								
Ceiling Concealed Duct	Mid / High Static		•	•	•	•	•		•	•		•	•	•	•	•	•
	Low Static	•	•	•	•	•	•	•	•								
	Low Static - Short Depth	•	•	•	•	•	•		•								
Fresh Air Intake Units															•	•	
Ceiling Suspended Unit						•		•			•		•				
HYDRO KIT	High Temperature 													•		•	
Energy Recovery Ventilator with DX Coil						•		•		•							

INDOOR UNIT  
**FEATURE OVERVIEW**

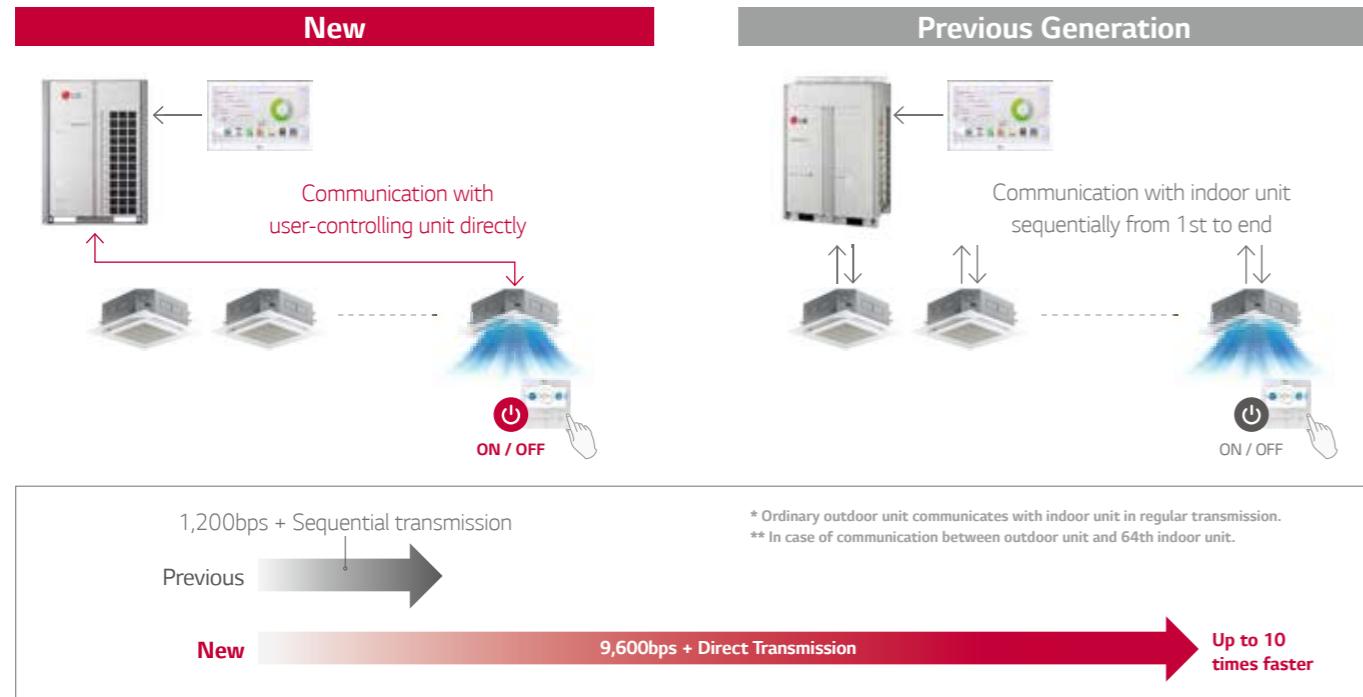
Energy Monitoring	2 Set Point	Occupied / Unoccupied Scheduling Function	Group Control	Test Run (Cooling)	Test Run (Heating)	Model Information Monitoring	Auto Addressing	Refrigerant Leakage Detection	Thermo On / Off Range Setting (Cooling)	Thermo On / Off Range Setting (Heating)	Static Pressure 11 Step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

→ More detailed information, refer to the "MULTI V INDOOR COMPATIBILITY"

# COMFORT

## Quick Control

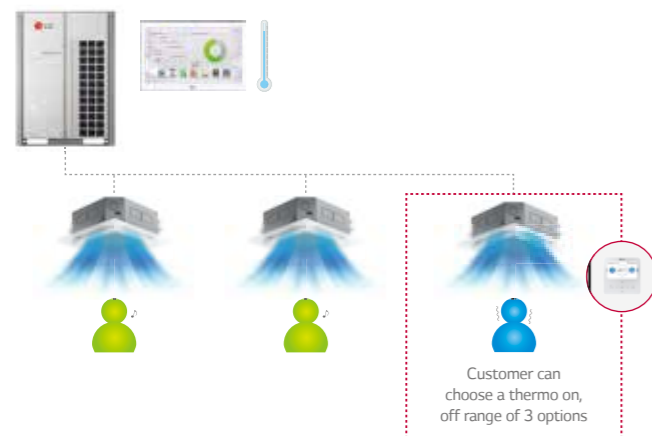
The new Generation indoor unit offers rapid heating and cooling with a response time of up to 10 times faster than previous generations through improved communication method and communication speed.



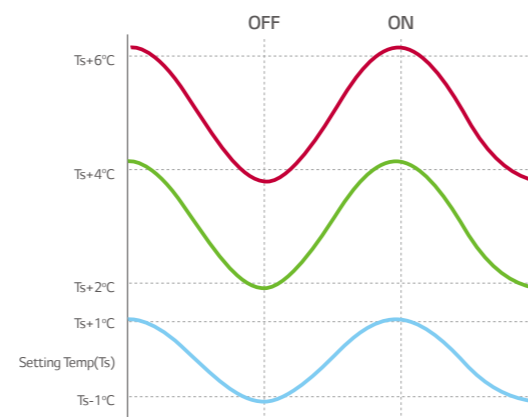
## Thermo On / Off Range Setting (Cooling)

The user can set the cooling thermo on / off range with the wired remote controller to prevent overcooling.

### Prevention Overcooling

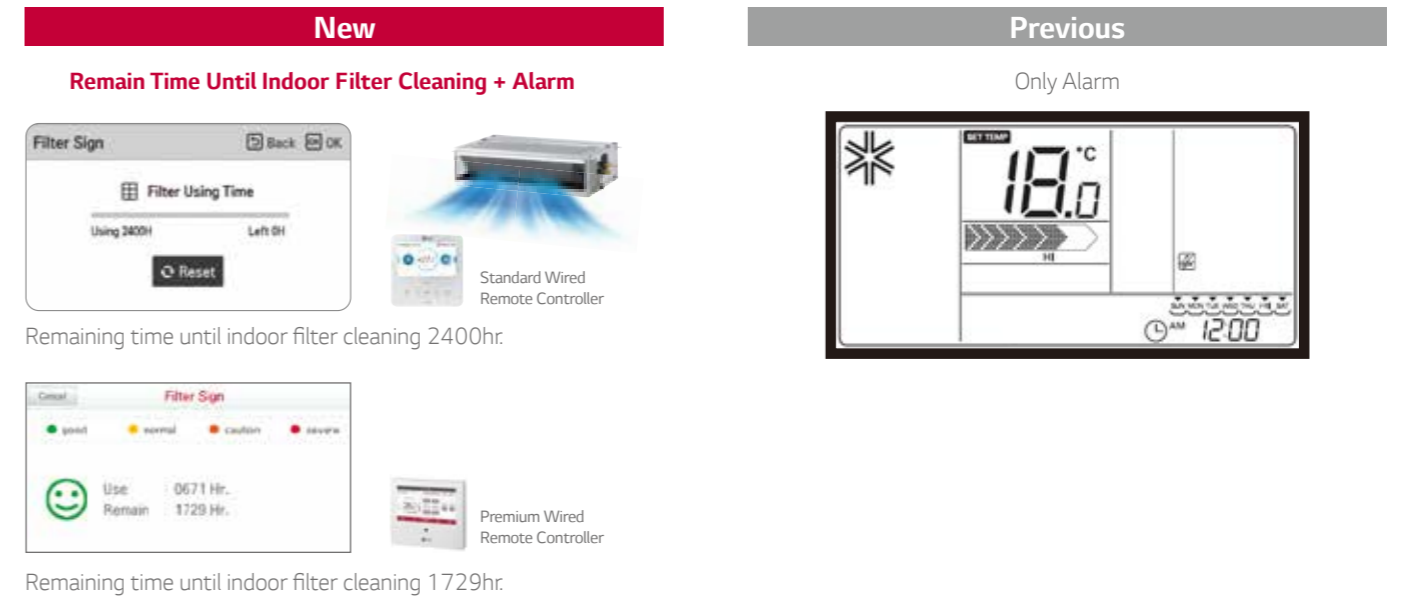


### Cooling Thermo On / Off Range



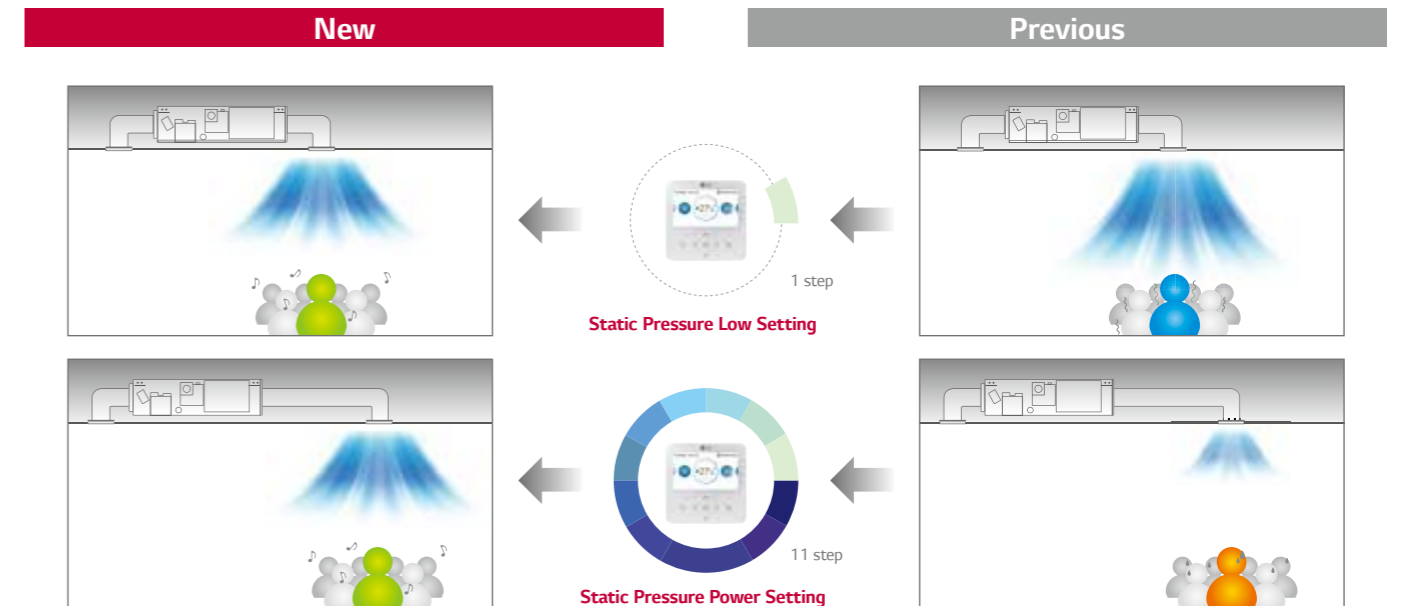
## Filter Sign (Remaining Time)

An alarm is activated when the filter needs to be cleaned, the time remaining until cleaning is displayed on the screen.



## Static Pressure 11 Step Control (Only for Ceiling Concealed Duct)

Depending on the installation environment, the 4th generation ceiling concealed duct can control the static pressure in 11 steps, which helps provide a comfortable environment.



# CONVENIENCE

## Group Control

In case of group control, users can control more functions than premium models.

New	Previous Models
 <p>Cooling / Heating Dehumidification Fan only operating Setting temp.</p> <p>Standard Operation + In Case of Group Control</p>	 <p>Cooling / Heating Dehumidification Fan only operating Setting temp.</p> <p>Standard Operation</p>
 <p>* In case of all indoor units in 1 group is the same unit. ** Fan Auto function is applicable only in the ceiling concealed duct.</p>	 <p>Sub function isn't operating</p>

## Energy Monitoring (Accumulated Electric Energy Check)

The accumulated electric energy of the indoor unit can be displayed with the wired remote control, as well as with the central controller. This function provides an advantage for energy management.

### Install Scene



Watt Meter PDI

Premium Wired Remote Controller  
Total accumulated electric energy 595kWh

Standard Wired Remote Controller  
Total accumulated electric energy 3,977kWh

### Apply for multistory building



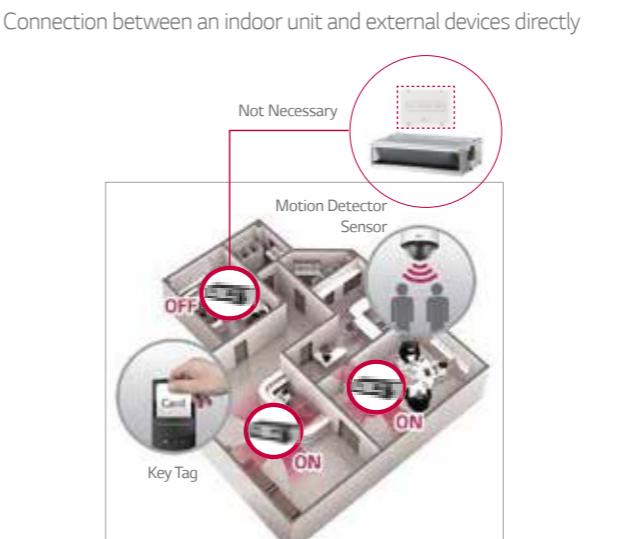
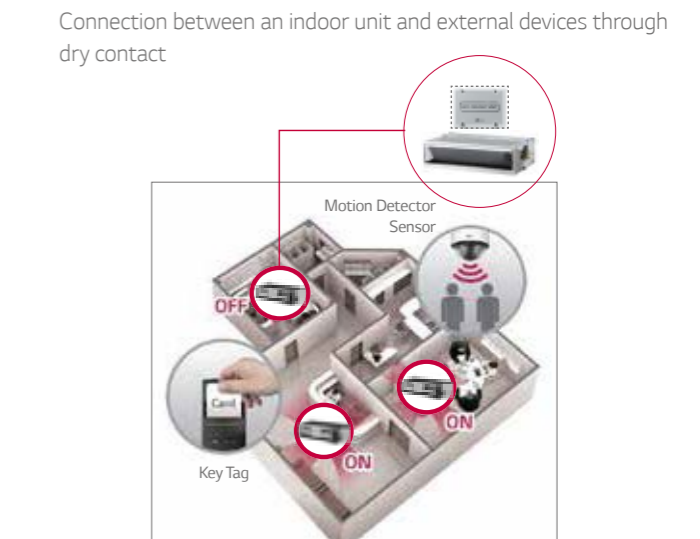
100kWh  
Total Power Input

20kWh  
50kWh  
30kWh

\* Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are connected with power wire. Only total accumulated electric energy is displayed in standard wired remote controller. In premium wired remote controller, that are displayed into week / month / year.

## 1 Point External Input (On / Off Control)

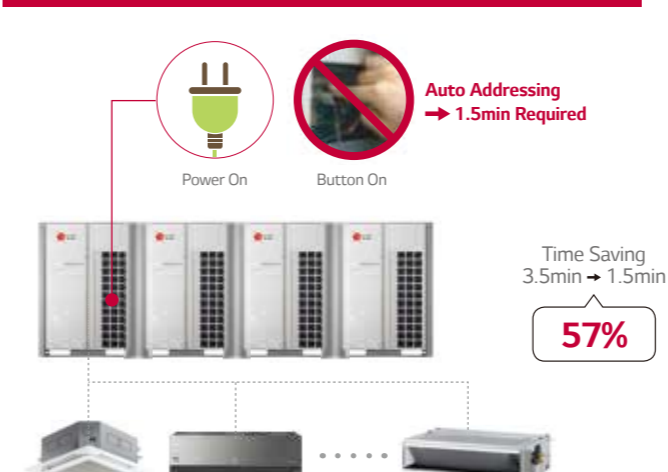

The indoor unit can control external devices without dry contact, so the customer can reduce the cost of installation.

New	Previous Generation
 <p>Connection between an indoor unit and external devices directly</p> <p>Not Necessary</p> <p>Motion Detector Sensor</p> <p>Key Tag ON</p>	 <p>Connection between an indoor unit and external devices through dry contact</p> <p>Motion Detector Sensor</p> <p>Key Tag ON</p>

\* In case of needing more functions beside on / off control, a dry contact is required to be installed.

## Auto Addressing

Addressing time has been reduced by up to 1.5min. (57% quicker than previous generation), so it's quicker to turn on multiple units.

New	Previous Generation
 <p>Power On Button On</p> <p>Auto Addressing → 1.5min Required</p> <p>Time Saving 3.5min → 1.5min <b>57%</b></p>	 <p>Power On Button On</p> <p>Auto Addressing → 3.5min Required</p>

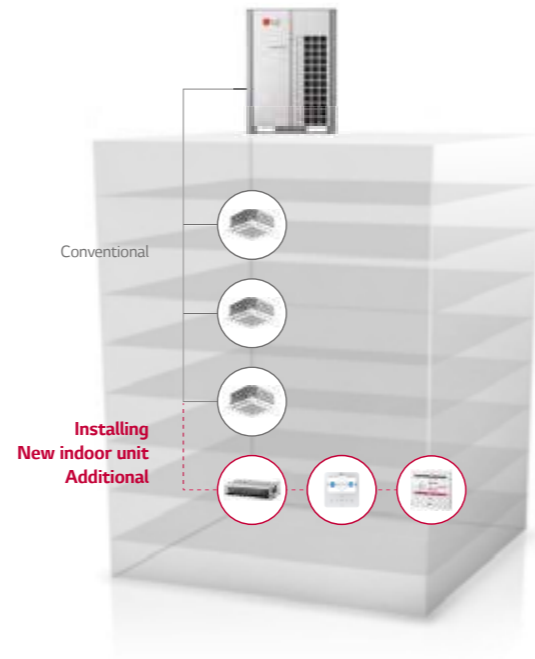
\* 64ea indoor units installing time



# CONVENIENCE

## Compatibility

- **Outdoor unit**
  - Any MULTI V series outdoor unit can be installed
- **Indoor unit**
  - Any MULTI V series can be installed
- **Wired remote controller**
  - Standard III : PREMTB100
  - Standard II : PREMTB001
  - Premium : PREMTA000
- **Implementable Functions**
  - Static Pressure 11 Step Control
  - Cooling thermo on / off range setting
  - Filter Sign
  - Control the external devices
  - Heating test run mode
  - Convenient check information



## Model Information Monitoring

For easier servicing, the user can check the indoor unit and outdoor unit's information on the wired remote controller.

Category	No.	Model							
First number : Outdoor unit	0	MULTI V							
	1	MULTI							
	2	Single							
Category	No.	Model	No.	Model	No.	Model			
Second Number : Indoor Unit	0	CST	6	Console	A	HYDRO KIT for Medium Temp.			
	1	Duct	7	Single Package	B	HYDRO KIT for High Temp.			
	2	CVT	8	General Ventilation	-	-			
	3	PAC	9	AWHP	-	-			
	4	RAC	-	-	-	-			
Category	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	
Third number : capacity of the indoor unit	MULTI V	0	5K	4	15K	8	36K	C	76K
		1	7K	5	18K	9	42K	D	96K
		2	9K	6	24K	A	48K	-	-
	MULTI	3	12K	7	28K	B	54K	-	-
		0	5K	4	12K	8	20K	-	-
		1	7K	5	14K	9	24K	-	-
	Single	2	8K	6	15K	A	30K	-	-
		3	9K	7	18K	B	36K	-	-
		0	9K	4	24K	8	48K	-	-
		1	12K	5	30K	9	60K	-	-
		2	18K	6	36K	-	-	-	-
		3	21K	7	42K	-	-	-	-



## Test Run (Heating)

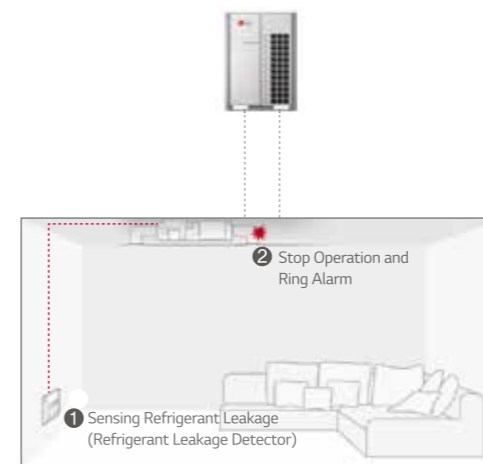
Test run mode can be operated during cooling mode and heating mode for service convenience.

New	Previous Generation
<p>Heating and cooling test run mode are available</p>	<p>Heating test run mode is unavailable</p>

## Refrigerant Leakage Detection (Option Function)

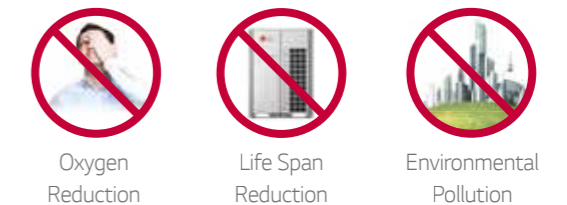
To meet the Global refrigerant leakage regulations, LG uses a refrigerant leakage detection kit. This detector senses refrigerant leakage and when the refrigerant concentration exceeds 6,000ppm it stops the indoor unit operation and also raises an alarm using a buzzer and sensor LED (The green and red LED lights blink simultaneously).

### Refrigerant Leakage Detection

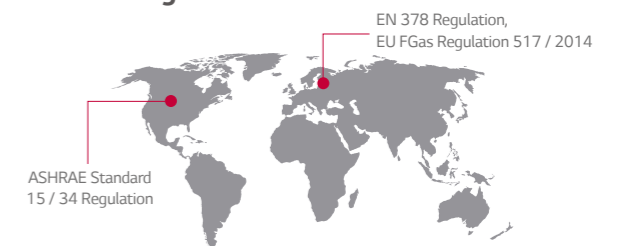


\* Refrigerant leakage detector is an option accessory.

### In Case of Leak Refrigerant



### Global Regulation



# SMART

## Wi-Fi Control

Control your air conditioners via Android or iOS smartphones. So the customer can always come home to comfort.

### LG SmartThinQ



Search "LG SmartThinQ" on Google market or Appstore then download the app.

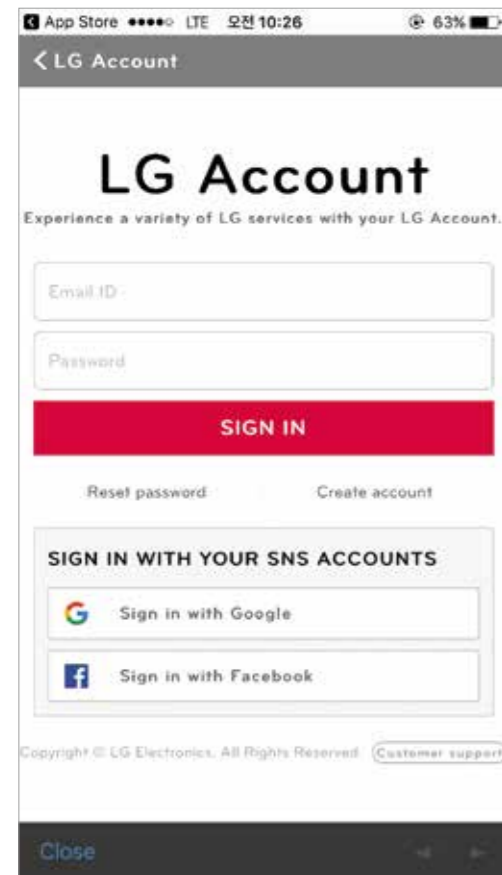


LG SmartThinQ

### How it Works

#### Easy Registration and Log-in

Follow the easy set-up steps that will activate SmartThinQ's impressive feature.



### Wi-Fi Connectivity

Let's every member of your family choose their own preferred air conditioning temperature and fan speed, then save the settings in their app to run later. You can save the setting for each air conditioner as well.

### Multiple Devices



### Multi-Control



\* Can be controlled by multiple users, but not simultaneously

# WALL MOUNTED UNIT

## ARTCOOL Mirror



Mirror

## Standard



# WALL MOUNTED UNIT

## Plasmaster™ Ionizer<sup>PLUS</sup>

### Breathe easier with improved air quality

The Plasmaster Ionizer generates over 3 million plasma ions which filtrate the air in the indoor environment and inside the air conditioning unit itself. The Auto Cleaning function helps to minimise the formation of mould and bacteria on the heat exchanger.

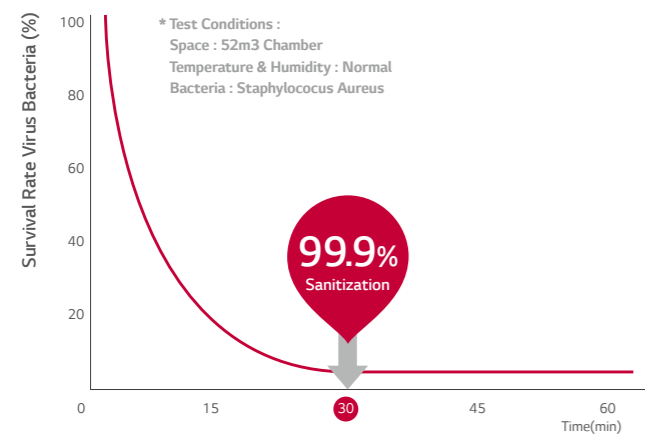
### Filtration and Deodorisation



### Test Result

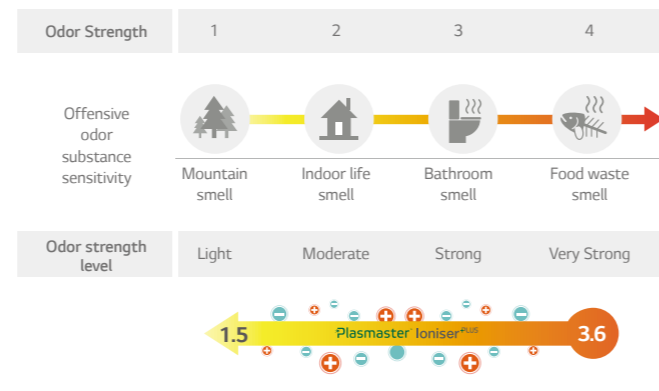
#### Sterilisation Performance Evaluations

Plasmaster Ionizer+ reduces harmful microscopic particles by infusing the air passing through the air conditioner with over 3 millions ions.



#### Odor strength decrease in 60 minutes

An odor of strength 2 or less indicates that there is odor but no sense of displeasure (degree of odor permissible).



Odor strength reduce 3.6 → 1.5 / The Odor floating in the room as well as curtain and clothes.

## Quick & Easy Installation

LG air conditioners are designed for an easy and efficient installation, making it possible to install several units in a short period of time.

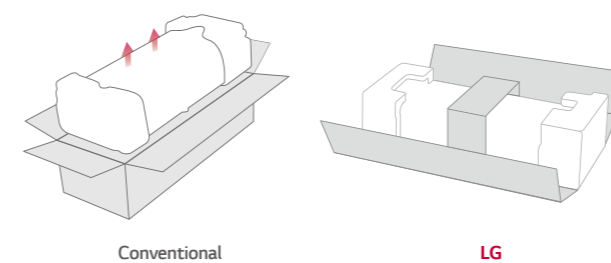
\* Specifications may vary for each model.

### Concept

By reducing the manpower and time required for installation, it is now possible to install more units in less time.

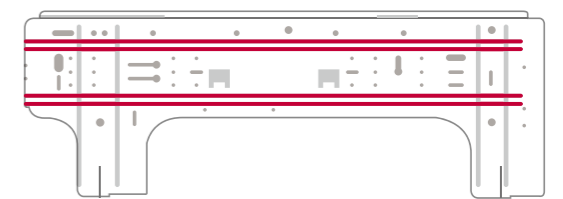
### How It Works

#### One Simple Packing Box



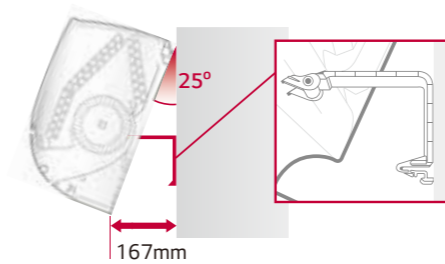
#### Installation Plate Improvement

LG's installation plate is larger and customised to reduce installation time.



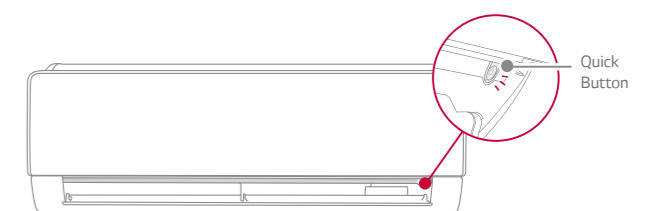
#### Installation Support Clip

A support clip creates adequate space between the wall and the unit for easier installation.



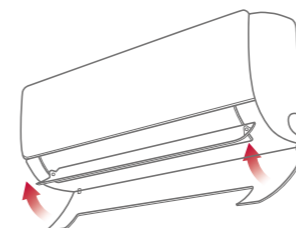
#### Quick button for running test

The test button is conveniently located and easy to find.



#### Detachable Bottom Cover

The air conditioner's bottom cover is detachable for easier installation and access.





# ARTCOOL MIRROR

ARNU05GSJR4 / ARNU07GSJR4 / ARNU09GSJR4  
ARNU12GSJR4 / ARNU15GSJR4

ARNU18GSKR4 / ARNU24GSKR4



Model	Independent Unit			ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4
Capacity	Cooling		kW	1.6	2.2	2.8	3.6	4.5
	Heating		kW	1.8	2.5	3.2	4.0	5.0
Power Input	H / M / L		W	11 / 10 / 9	12 / 11 / 9	13 / 12 / 9	15 / 13 / 11	23 / 18 / 11
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Airflow Rate	Cooling / Heating	H / M / L	m³/min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
			L/s	113 / 108 / 98	120 / 113 / 98	130 / 120 / 98	142 / 130 / 113	175 / 158 / 113
Sound Pressure	H / M / L		dBA	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32
Sound Power	H / M / L		dBA	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54
Dimensions	Body	W x H x D	mm	837 x 308 x 192	837 x 308 x 192	837 x 308 x 192	837 x 308 x 192	837 x 308 x 192
Net Weight			kg	9.2	9.2	9.2	9.2	9.2
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7	12.7	12.7
	Drain	I.D	mm	16.0	16.0	16.0	16.0	16.0

\* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under AS/NZS 3823.1.4

2) Rated : Power input

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3. I.D : ' Internal Diameter '

Model	Independent Unit			ARNU18GSKR4	ARNU24GSKR4
Capacity	Cooling		kW	5.6	7.1
	Heating		kW	6.3	7.5
Power Input	H / M / L		W	32 / 26 / 16	39 / 26 / 16
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Airflow Rate	Cooling / Heating	H / M / L	m³/min	14.0 / 12.0 / 10.5	15.2 / 12.7 / 10.5
			L/s	233 / 200 / 175	253 / 212 / 175
Sound Pressure	H / M / L		dBA	43 / 39 / 34	46 / 41 / 34
Sound Power	H / M / L		dBA	63 / 57 / 542	65 / 60 / 54
Dimensions	Body	W x H x D	mm	1,030 x 325 x 245	1,030 x 325 x 245
Net Weight			kg	13.4	13.4
Piping Connection	Liquid		mm	6.35	9.52
	Gas		mm	12.7	15.88
	Drain	I.D	mm	16.0	16.0

\* This product contains Fluorinated Greenhouse Gases. (R410A)

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

3. I.D : ' Internal Diameter '

## Accessories

Model	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4
Dry Contact	Simple (1 Contact Point with Case)		PDRYCB000		
	2 Contact Point		PDRYCB400		
	For Thermostat (On-Off / Mode / Fan Speed)		PDRYCB300		
	Modbus Communication		PDRYCB500		
EEV Kit for MULTI V Indoor			PRGK024A0		

Wired Remote Controller					Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel	
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRCVCL0QW (White)	PQRCHCA0QW (White)	PWLSSB21H

## Accessories

Model	ARNU18GSKR4	ARNU24GSKR4	
Dry Contact	Simple (1 Contact Point with Case)		PDRYCB000
	2 Contact Point		PDRYCB400
	For Thermostat (On-Off / Mode / Fan Speed)		PDRYCB300
	Modbus Communication		PDRYCB500
EEV Kit for MULTI V Indoor			PRGK024A0

Wired Remote Controller					Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel	
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRCVCL0QW (White)	PQRCHCA0QW (White)	PWLSSB21H

# STANDARD

ARNU05GSJN4 / ARNU07GSJN4 / ARNU09GSJN4 / ARNU12GSJN4 / ARNU15GSJN4  
ARNU18GSKN4 / ARNU24GSKN4 / ARNU30GSVA4 / ARNU36GSVA4



Model	Independent Unit		ARNU05GSJN4	ARNU07GSJN4	ARNU09GSJN4	ARNU12GSJN4	ARNU15GSJN4	ARNU18GSKN4	ARNU24GSKN4	ARNU30GSVA4	ARNU36GSVA4
Capacity	Cooling	kW	1.6	2.2	2.8	3.6	4.5	5.6	7.1	8.8	10.4
	Heating	kW	1.8	2.5	3.2	4.0	5.0	6.3	7.5	9.4	10.8
Power Input	H/M/L	W	11 / 10 / 9	12 / 11 / 9	13 / 12 / 9	15 / 13 / 11	23 / 18 / 11	32 / 26 / 16	39 / 26 / 16	54 / 43 / 31	85 / 51 / 36
Power Supply		Ø/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Airflow Rate	Cooling	m³/min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8	14.0 / 12.0 / 10.5	15.2 / 12.7 / 10.5	22.0 / 19.0 / 16.0	27.0 / 24.0 / 20.0
	Heating	L/s	113 / 108 / 98	120 / 113 / 98	130 / 120 / 98	142 / 130 / 113	175 / 158 / 113	233 / 200 / 175	253 / 212 / 175	367 / 317 / 267	450 / 400 / 334
Sound Pressure	H/M/L	dBA	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32	43 / 39 / 34	46 / 41 / 34	49 / 44 / 42	52 / 47 / 43
Sound Power	H/M/L	dBA	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54	63 / 57 / 52	65 / 60 / 54	61 / 58 / 55	63 / 60 / 57
Dimensions Body	WxHxD	mm	818 x 316 x 189	818 x 316 x 189	818 x 316 x 189	818 x 316 x 189	818 x 316 x 189	975 x 354 x 209	975 x 354 x 209	1,190 x 346 x 265	1,190 x 346 x 265
Net Weight		kg	8.4	8.4	8.4	8.4	8.4	12.2	12.2	116.6	16.6
	Liquid	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52	9.52	9.52
Piping Connection	Gas	mm	12.7	12.7	12.7	12.7	12.7	12.7	15.88	15.88	15.9
	Drain I.D	mm	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0

\* This product contains Fluorinated Greenhouse Gases. (R410A)  
1) Nom. : Performance tested under AS/NZS 3823.1.4  
2) Rated : Power input  
Note : 1. Capacities are based on the following conditions  
- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
2. Due to our policy of innovation some specifications may be changed without notification  
3. I.D : ' Internal Diameter '

## Accessories

Model	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4	ARNU18GSKR4	ARNU24GSKR4	ARNU30GSVA4	ARNU36GSVA4
Dry Contact	Simple (1 Contact Point with Case)								
	2 Contact Point								
	For Thermostat (On-Off / Mode / Fan Speed)								
	Modbus Communication								
EEV Kit for MULTI V Indoor									PRGK024A0

Wired Remote Controller					Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel	
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRCVCL0QW (White)	PQRCHCA0QW (White)	PWLSSB21H

# CEILING MOUNTED CASSETTE (4 Way)

## Compact Size

The indoor unit has slim and compact dimensions to enable easier installations into restricted spaces.



Capacity	Height
7.1 - 8.0kW	204mm
10.0kW	246mm
12.5 - 15kW	288mm

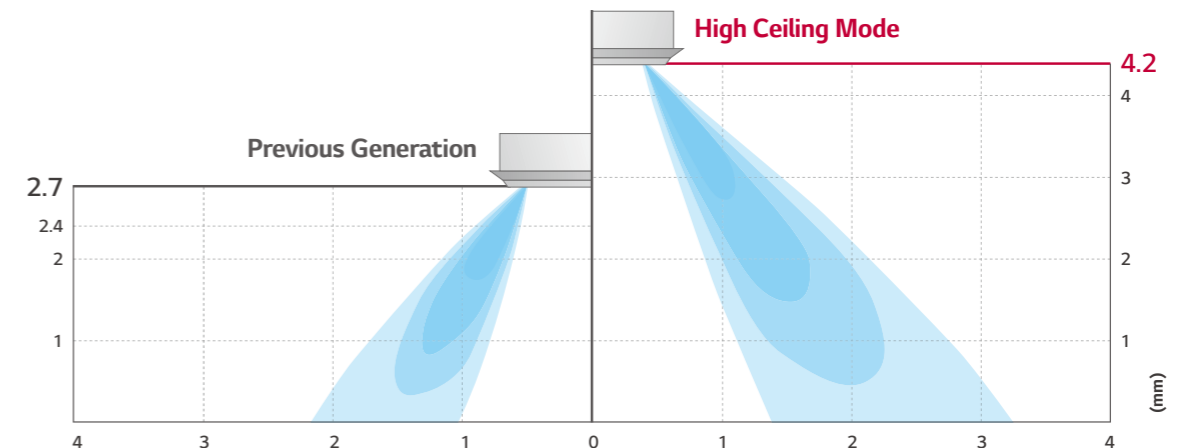
## 620 Panel – Compact and Stylish Design

- New 4 way cassette panel has adapted a unibody shape to help matching into the ceiling
- Panel size will fit into the ceiling tile



## High Ceiling Mode

High ceiling mode provides powerful cooling and heating up to 4.2m in height, from ceiling to floor.

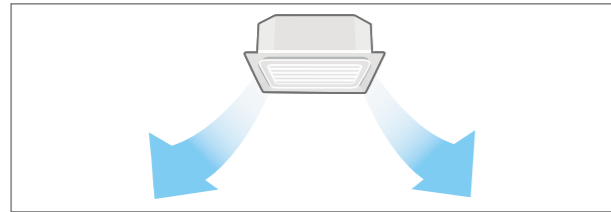


# CEILING MOUNTED CASSETTE (4 Way / 2 Way)

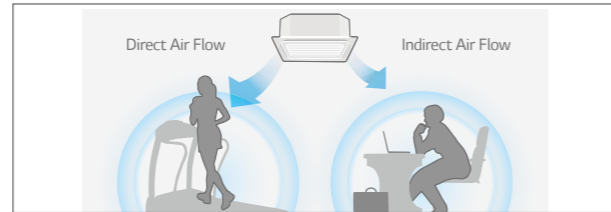
## Independent Vane Control

The Independent Vane Operation feature uses separate motors, making it possible to control all four vanes independently.

### All Vane Operation

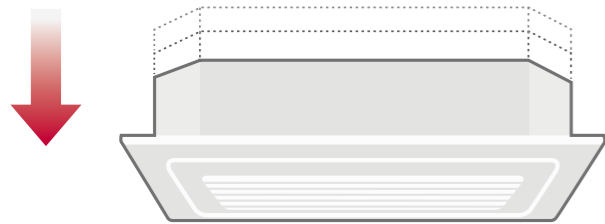


### Independent Vane Control



## Compact Size

The indoor unit has slim and compact dimensions to make it easier to install into restricted spaces.



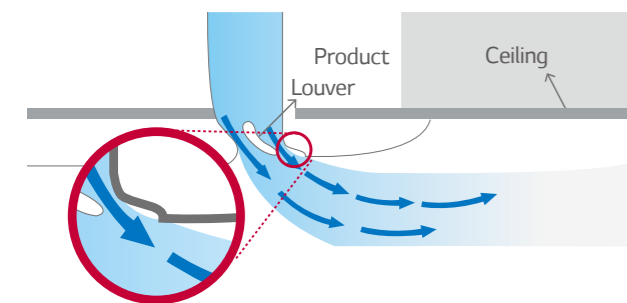
Capacity	Height
7.1 - 9.0kW	204mm
10.6kW	246mm
12.3 - 15.8kW	288mm

\* Length Width : 840 x 840mm

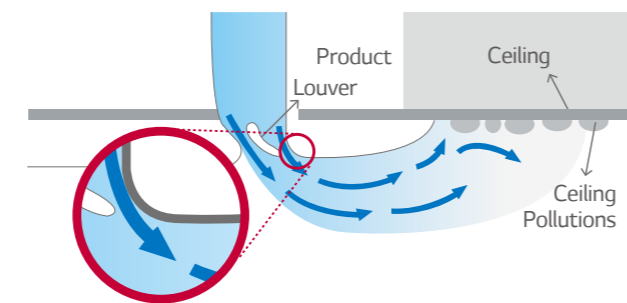
## Reduce Ceiling Pollution

Coanda design of the air outlet can help prevent contamination of the ceiling.

### Coanda Design



### Previous Generation

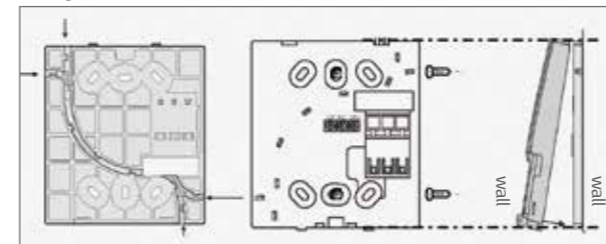


## Flexible Connection

Flexible connection of remote controller.

- Group control : 1 remote controller up to 16 indoor units. / Second remote control : 2 remote controllers to 1 indoor unit.

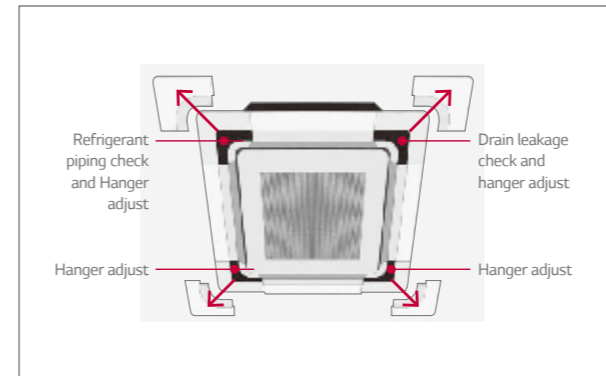
### Easy & Solid Attachment to the Wall



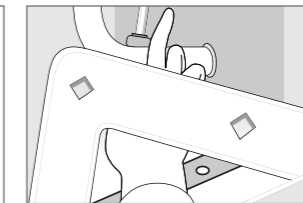
## Convenient Panel Installation

The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe.

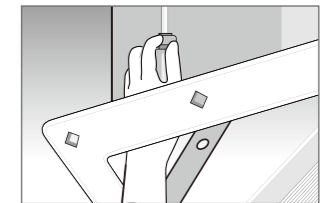
### Detachable Corner Design



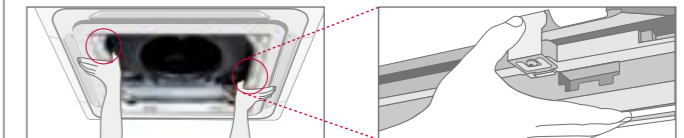
### Drain leakage check



### Hanger adjust

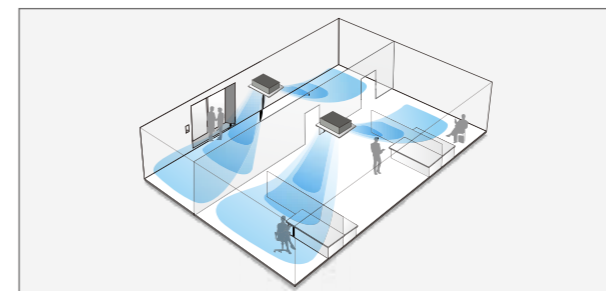


It is easy to install the panel to the body, using the button type panel design.



## 2 Way air flow with reduced temperature variation

2 Way cassette is suitable for narrow type spaces such as office / hotel / dormitory corridor, it provides thermal comfort with reduced temperature variation.



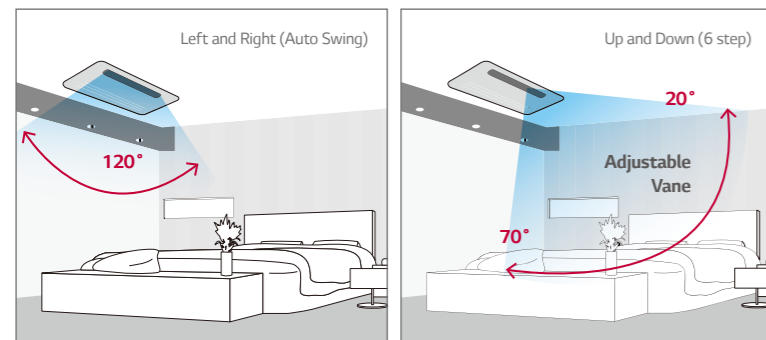


# CEILING MOUNTED CASSETTE (1 Way)

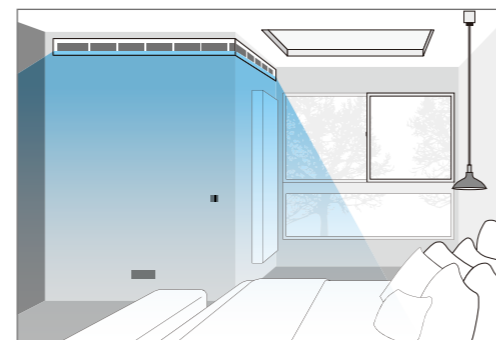
## 6-Step Vane Control

There are 6 different steps to control the air flow direction. Also the 1 way cassette has a vane to move auto swing between left and right 120 degrees.

### Moving Air Flow 1 Way cassette



### Fixed Air Flow Duct system

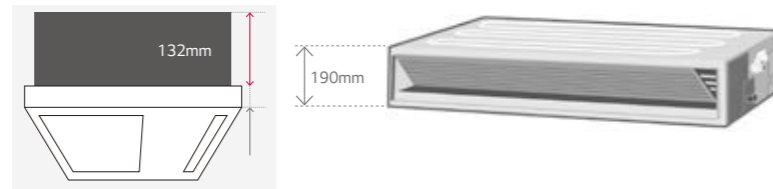


## Minimised Height

LG 1 Way cassette is less affected by installation environment. LG 1 Way cassette height is 132mm and the duct is 190mm, so it can be the ideal solution for installation in a limited space.

### Size Comparison

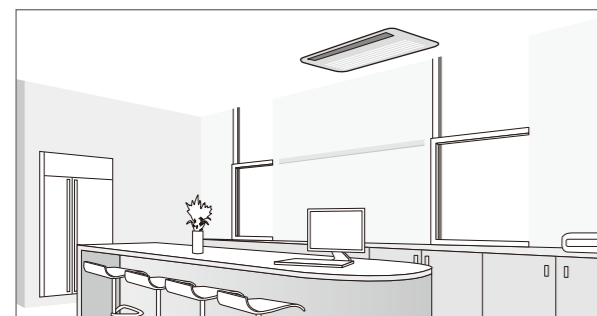
	LG	A Company	B Company
1 Way Cassette	132	215	230
Duct	190	200	200



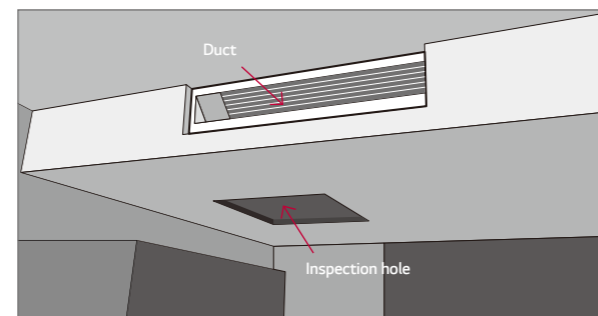
## Flexible Installation

The access for inspection 1 Way Cassette does not require additional inspection hole.

### 1 Way cassette



### Duct



# 4 WAY MOUNTED CASSETTE (570 x 570)

ARNU05GTRB4 / ARNU07GTRB4 / ARNU09GTRB4 / ARNU12GTRB4  
ARNU15GTQB4 / ARNU18GTQB4 / ARNU21GTQB4



Model	Independent Unit		ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4	
Capacity	Cooling	kW	1.6	2.2	2.8	3.6	4.5	5.6	6.0	
	Heating	kW	1.8	2.5	3.2	4.0	5.0	6.3	6.8	
Power Input	Cooling / Heating	W	13	13	14	17	24	25	28	
Power Supply		Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Airflow Rate	Cooling / Heating	H / M / L	m <sup>3</sup> /min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
			L/s	125 / 117 / 110	125 / 117 / 110	134 / 125 / 118	145 / 134 / 117	183 / 137 / 115	187 / 183 / 137	200 / 185 / 157
Sound Pressure		H / M / L	dBA	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27	36 / 34 / 32	37 / 35 / 34	40 / 38 / 34
Sound Power		H / M / L	dBA	45 / 43 / 42	45 / 43 / 42	46 / 43 / 42	48 / 46 / 43	50 / 48 / 46	51 / 50 / 46	53 / 51 / 46
Dimensions	Body	W x H x D	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	570 x 256 x 570	
Net Weight			kg	12.6	12.6	13.7	13.7	15.0	15.0	
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35	9.52	
	Gas		mm	12.7	12.7	12.7	12.7	12.7	15.88	
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0	25.0	
Decoration Panel 1	Model		PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC	
	Color (RAL Code)		Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	
	Dimensions	W x H x D	mm	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	
	Weight		kg	3.0	3.0	3.0	3.0	3.0	3.0	
Decoration Panel 2	Model		PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0	
	Color (RAL Code)		Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	
	Dimensions	W x H x D	mm	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	
	Weight		kg	3.1	3.1	3.1	3.1	3.1	3.1	

\* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under AS/NZS 3823.1.4

2) Rated : Power input

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

2. Due to our policy of innovation some specifications may be changed without notification 3. I.D. : ' Internal Diameter '

## Accessories

Model	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Dry Contact	Simple (1 Contact Point with Case)			PDRYCB000			
	2 Contact Point			PDRYCB400			
	For Thermostat (On-Off / Mode / Fan Speed)			PDRYCB300			
	Modbus Communication			PDRYCB500			
Front Panel				PT-UQC			
EEV Kit for MULTI V Indoor			PRGK024A0				

Wired Remote Controller					Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel	
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRCVCLQW (White)	PQRCHCAQW (White)	PWLSSB21H

INDOOR UNIT SPECIFICATION

# 4 WAY CASSETTE (840 x 840)

ARNU24GTPA4 / ARNU28GTPA4 / ARNU30GTPA4 / ARNU36GTNA4  
ARNU42GTMA4 / ARNU48GTMA4 / ARNU54GTMA4



Model	Independent Unit		ARNU24GTPA4	ARNU28GTPA4	ARNU30GTPA4	ARNU36GTNA4	ARNU42GTMA4	ARNU48GTMA4	ARNU54GTMA4	
Capacity	Cooling	kW	7.1	8.2	9.0	10.6	12.3	14.1	15.8	
	Heating	kW	8.0	9.2	10.0	11.9	13.8	15.9	18.0	
Power Input	Cooling / Heating	W	31	40	40	70	104	120	135	
Power Supply		Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Airflow Rate	Cooling / Heating	H / M / L	m³/min	17.0 / 15.0 / 13.0	19.0 / 16.0 / 14.0	24.3 / 22.8 / 19.5	25.0 / 21.0 / 19.0	30.0 / 27.0 / 24.0	31.0 / 29.0 / 27.0	34.0 / 32.0 / 27.0
		L/s	283 / 250 / 217	317 / 267 / 233	405 / 380 / 325	417 / 350 / 317	500 / 450 / 400	517 / 483 / 450	567 / 533 / 450	
Sound Pressure		H / M / L	dBa	36 / 34 / 31	39 / 35 / 33	40 / 36 / 33	43 / 40 / 37	44 / 41 / 38	46 / 43 / 41	50 / 48 / 44
Sound Power		H / M / L	dBa	46 / 44 / 43	52 / 46 / 44	58 / 57 / 54	56 / 53 / 51	58 / 55 / 50	60 / 56 / 55	60 / 58 / 55
Dimensions	Body	WxHxD	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Net Weight			kg	20.8	20.8	20.8	23.5	25.6	25.6	26.5
Piping Connection	Liquid		mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Gas		mm	15.88	15.88	15.88	15.88	15.88	15.88	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Decoration Panel 1	Model			PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1
	Color (RAL Code)			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
	Dimensions	WxHxD	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Weight		kg	5.6	5.6	5.6	5.6	5.6	5.6	5.6
Decoration Panel 2	Model			PT-MCHW0	PT-MCHW0	PT-MCHW0	PT-MCHW0	PT-MCHW0	PT-MCHW0	PT-MCHW0
	Color (RAL Code)			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
	Dimensions	WxHxD	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Weight		kg	6.3	6.3	6.3	6.3	6.3	6.3	6.3

\* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under AS/NZS 3823.1.4

2) Rated : Power input

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

2. Due to our policy of innovation some specifications may be changed without notification 3. I.D : ' Internal Diameter '

## Accessories

Model	ARNU24GTPA4	ARNU28GTPA4	ARNU30GTPA4	ARNU36GTNA4	ARNU42GTMA4	ARNU48GTMA4	ARNU54GTMA4
Dry Contact	Simple (1 Contact Point with Case)						PDRYCB000
	2 Contact Point						PDRYCB400
	For Thermostat (On-Off / Mode / Fan Speed)						PDRYCB300
	Modbus Communication						PDRYCB500
Front Panel							PT-UMC1

Wired Remote Controller						Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel		
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRCVCLQW (White)	PQRCHCAQW (White)		PWLSSB21H

INDOOR UNIT SPECIFICATION

# 2 WAY CASSETTE

ARNU09G TSA4 / ARNU12G TSA4  
ARNU18G TSA4 / ARNU24G TSA4



Model	Independent Unit		ARNU09G TSA4	ARNU12G TSA4	ARNU18G TSA4	ARNU24G TSA4	
Capacity	Cooling	kW	2.8	3.6	5.6	7.1	
	Heating	kW	3.2	4.0	6.3	8.0	
Power Input	Cooling / Heating	W	16	18	19	31	
Power Supply		Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Airflow Rate	Cooling / Heating	H / M / L	m³/min	10.8 / 9.8 / 9.1	11.1 / 10.3 / 9.1	11.8 / 10.8 / 9.8	14.5 / 12.4 / 10.3
		L/s	167 / 163 / 152	185 / 172 / 152	197 / 180 / 163	242 / 2.7 / 172	
Sound Pressure		H / M / L	dBa	33 / 31 / 29	34 / 32 / 29	35 / 33 / 31	40 / 37 / 33
Sound Power		H / M / L	dBa	42 / 40 / 38	43 / 41 / 39	44 / 43 / 41	49 / 46 / 41
Dimensions	Body	WxHxD	mm	830 x 225 x 600	830 x 225 x 600	830 x 225 x 600	830 x 225 x 600
Net Weight			kg	18.1	18.1	18.1	18.1
Piping Connection	Liquid		mm	6.35	6.35	6.35	9.52
	Gas		mm	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0
Decoration Panel	Model			PT-USC	PT-USC	PT-USC	PT-USC
	Color			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
	Dimensions	WxHxD	mm	1,100 x 28 x 690	1,100 x 28 x 690	1,100 x 28 x 690	1,100 x 28 x 690
	Weight		kg	4.65	4.65	4.65	4.65

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2) Rated : Power input

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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## Accessories

Model	ARNU09G TSA4	ARNU12G TSA4	ARNU18G TSA4	ARNU24G TSA4
Dry Contact	Simple (1 Contact Point with Case)			PDRYCB000
	2 Contact Point			PDRYCB400
	For Thermostat (On-Off / Mode / Fan Speed)			PDRYCB300
	Modbus Communication			PDRYCB500
Front Panel				PT-USC
EEV Kit for MULTI V Indoor		PRGK024A0		-

Wired Remote Controller						Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel		
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRCVCLQW (White)	PQRCHCAQW (White)		PWLSSB21H

# 1 WAY CASSETTE

ARNU07GTUB4 / ARNU09GTUB4 / ARNU12GTUB4  
ARNU18GTTB4 / ARNU24GTTB4



Model	Independent Unit		ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4	ARNU18GTTB4	ARNU24GTTB4
Capacity	Cooling	kW	2.2	2.8	3.6	5.6	7.1
	Heating	kW	2.5	3.2	4.0	6.3	7.1
Power Input	Cooling / Heating	W	20	22	24	38	51
Power Supply		Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Airflow Rate	Cooling / Heating	H / M / L	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10.0 / 9.2 / 8.2	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
		L/s	137 / 122 / 107	153 / 143 / 137	167 / 153 / 137	222 / 202 / 182	243 / 222 / 192
Sound Pressure		H / M / L	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	40 / 37 / 35	43 / 40 / 36
Sound Power		H / M / L	47 / 44 / 41	50 / 48 / 47	52 / 50 / 47	56 / 51 / 48	59 / 53 / 50
Dimensions	Body	WxHxD	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450	1,180 x 132 x 450	1,180 x 132 x 450
Net Weight		kg	13.6	13.6	13.6	15.6	15.6
Piping Connection	Liquid	mm	6.35	6.35	6.35	6.35	9.52
	Gas	mm	12.7	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0
Decoration Panel	Model		PT-UUC (Grill)	PT-UUC (Grill)	PT-UUC (Grill)	PT-UTC (Grill)	PT-UTC (Grill)
	Color (RAL Code)		Noble White (RAL 110-1)	Noble White (RAL 110-1)	Noble White (RAL 110-1)	Noble White (RAL 110-1)	Noble White (RAL 110-1)
	Dimensions	WxHxD	mm	1,100 x 34 x 500	1,100 x 34 x 500	1,100 x 34 x 500	1,420 x 34 x 500
	Weight		kg	4.6	4.6	4.6	5.5

\* This product contains Fluorinated Greenhouse Gases. (R410A)  
 1) Nom. : Performance tested under AS/NZS 3823.1.4  
 2) Rated : Power input  
 Note : 1. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 2. Due to our policy of innovation some specifications may be changed without notification  
 3. I.D : ' Internal Diameter '

## Accessories

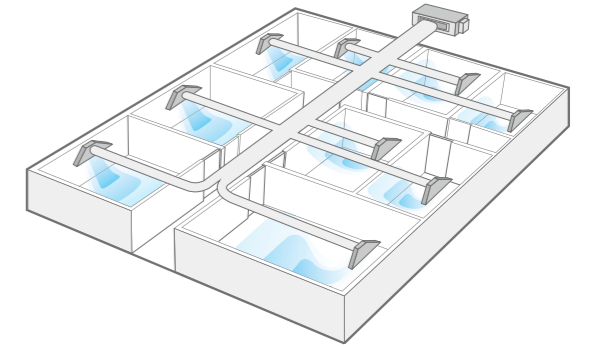
Model	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4	ARNU18GTTB4	ARNU24GTTB4
Dry Contact	Simple (1 Contact Point with Case)			PDRYCB000	
	2 Contact Point			PDRYCB400	
	For Thermostat (On-Off / Mode / Fan Speed)			PDRYCB300	
	Modbus Communication			PDRYCB500	
Front Panel		PT-UUC (Grill)		PT-UTC (Grill)	
EEV Kit for MULTI V Indoor		PRGK024A0		-	

Wired Remote Controller					Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel	
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRCVCLQW (White)	PQRCHCAQW (White)	PWLSB21H

# CEILING CONCEALED DUCT

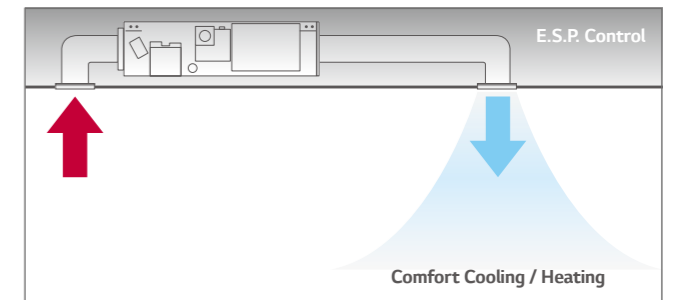
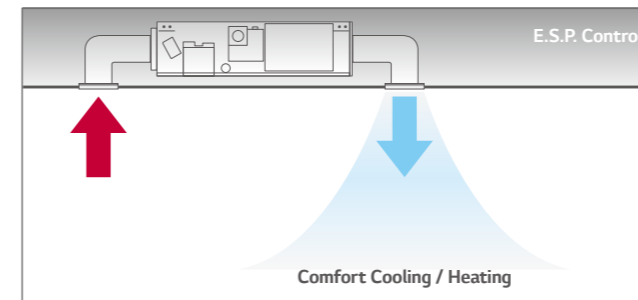
## Operation for Multiple Rooms

Using a spiral duct (embedded or flexible type) and stream chamber, it is possible to operate cooling / heating for several rooms simultaneously.



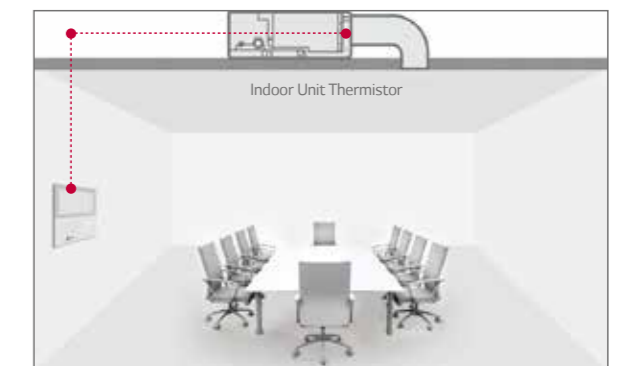
## E.S.P. (External Static Pressure) Control

E.S.P. control function can make air volume adjustments easily with remote controller. The BLDC motor can control fan speed and air volume regardless of the external static pressure. No additional accessories are necessary to control air flow.



## Two Thermistors Control

The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.



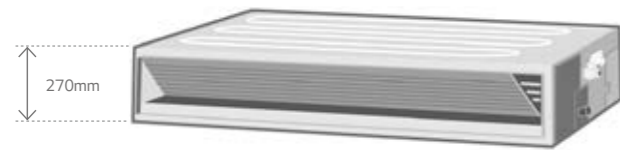
Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users.



# CEILING CONCEALED DUCT

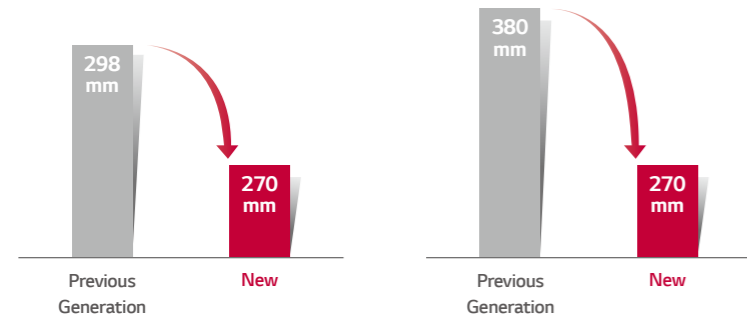
## Compact Height

New mid-static ducts provide ideal solution for installation in limited space.



8 / 10kW

12.5kW



## Flexible Installation (Low Static Duct Only)

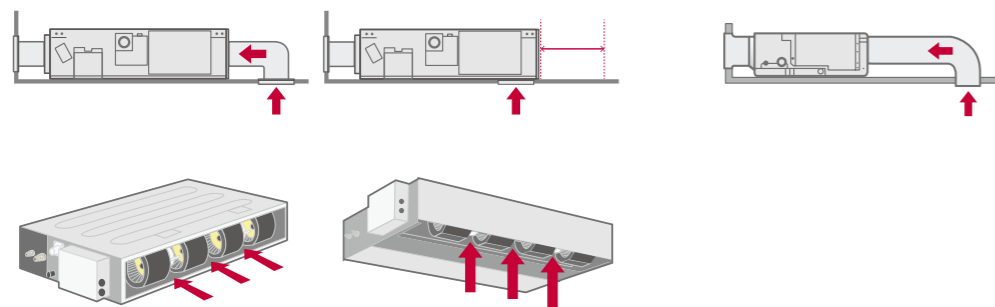
The new low static duct allows the air intake from the rear or bottom installation condition.

### New Low Static Duct

Air intake at the rear or bottom

### Previous Generation

Air intake at the only rear



# MID / HIGH STATIC

ARNU07GM1A4 / ARNU09GM1A4 / ARNU12GM1A4  
ARNU15GM1A4 / ARNU18GM1A4 / ARNU24GM1A4



Model	Independent Unit			ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Capacity	Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling / Heating		W	39	40	46	67	85	91
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
			m <sup>3</sup> /min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
Airflow Rate	Cooling / Heating	H / M / L	L/s	150 / 125 / 100	158 / 125 / 100	183 / 150 / 117	267 / 200 / 150	283 / 242 / 200	317 / 267 / 14.0
		Min - Max	mmAq(Pa)	2(20) - 15(147)	2(20) - 15(147)	2(20) - 15(147)	2(20) - 15(147)	2(20) - 15(147)	2(20) - 15(147)
External Static Pressure			mmAq(Pa)	2(20) - 15(147)	2(20) - 15(147)	2(20) - 15(147)	2(20) - 15(147)	2(20) - 15(147)	2(20) - 15(147)
Sound Pressure		H / M / L	dB(A)	26 / 24 / 23	27 / 25 / 23	27 / 25 / 23	30 / 27 / 23	31 / 28 / 25	32 / 29 / 26
Sound Power		H / M / L	dB(A)	55 / 54 / 51	55 / 54 / 52	56 / 54 / 52	59 / 57 / 55	59 / 57 / 55	59 / 58 / 56
Dimensions	Body	W x H x D	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
Net Weight			kg	25.5	25.5	25.5	25.5	25.5	26.5
	Liquid		mm	6.35	6.35	6.35	6.35	6.35	9.52
Piping Connection	Gas		mm	12.7	12.7	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0	25.0
Drain Pump				In-built	In-built	In-built	In-built	In-built	In-built

\* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under AS/NZS 3823.1.4

2) Rated : Power input

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3. I.D : ' Internal Diameter '

4. The Sound Pressure test condition is based on 50 Pa for middle static duct.

## Accessories

Model	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Dry Contact	Simple (1 Contact Point with Case)			PDRYCB000		
	2 Contact Point			PDRYCB400		
	For Thermostat (On-Off / Mode / Fan Speed)			PDRYCB300		
	Modbus Communication			PDRYCB500		
EEV Kit for MULTI V Indoor	PRGK024A0					-
IR Receiver	PWLRVN000					

Wired Remote Controller					Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel	
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRCVCLQW (White)	PQRCHCAQW (White)	PWLSSB21H

INDOOR UNIT SPECIFICATION

# MID / HIGH STATIC

ARNU28GM2A4 / ARNU36GM2A4 / ARNU42GM2A4 / ARNU48GM3B4  
ARNU54GM3B4 / ARNU68GB8K4 / ARNU76GB8K4 / ARNU96GB8K4



Model	Independent Unit	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3B4	ARNU54GM3B4	ARNU68GB8K4	ARNU76GB8K4	ARNU96GB8K4		
Capacity	Cooling	kW	8.2	10.6	12.3	14.1	15.8	20	22.4	28.0	
	Heating	kW	9.2	11.9	13.8	15.9	18.0	22.5	25.2	31.5	
Power Input	Cooling / Heating	W	123	184	231	172	260	621	747	800	
	Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Airflow Rate	Cooling / Heating	H / M / L	m³/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	55.2 / 46.8 / 46.8	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
			L/s	467 / 400 / 350	533 / 467 / 400	633 / 550 / 467	667 / 567 / 467	833 / 750 / 667	917 / 780 / 780	1,000 / 833 / 833	1,200 / 1,067 / 1,067
External Static Pressure	Min - Max	Pa	39 - 176	39 - 176	39 - 176	39 - 200	39 - 200	118 - 245	59 - 245	59 - 245	
Sound Pressure	H / M / L	dBA	38 / 36 / 35	40 / 38 / 36	42 / 41 / 39	41 / 38 / 32	42 / 41 / 40	44 / 43 / 43	45 / 41 / 40	47 / 42 / 41	
Sound Power	H / M / L	dBA	59 / 57 / 55	60 / 59 / 57	62 / 61 / 60	63 / 60 / 59	66 / 64 / 62	-	70 / 68 / 68	72 / 69 / 68	
Dimensions	Body	W x H x D	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700	1,562 x 460 x 688	1,562 x 460 x 688	
Net Weight		kg	38.0	38.0	39.5	44.0	44.0	87.0	87.0	87.0	
Piping Connection	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	
			Gas	15.88	15.88	15.88	15.88	19.05	19.05	19.05	22.2
			Drain	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Drain Pump			In-built	In-built	In-built	In-built	In-built	In-built	In-built	In-built	

\* This product contains Fluorinated Greenhouse Gases. (R410A)  
1) Nom. : Performance tested under AS/NZS 3823.1.4  
2) Rated : Power input

Note : 1. Capacities are based on the following conditions  
- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
2. Due to our policy of innovation some specifications may be changed without notification  
3. I.D : ' Internal Diameter '  
4. The Sound Pressure test condition is based on 50 Pa for middle static duct.

## Accessories

Model	ARNU28GM2B4	ARNU36GM2B4	ARNU42GM2B4	ARNU48GM3B4	ARNU54GM3B4	ARNU76GB8B4	ARNU96GB8B4
Dry Contact	Simple (1 Contact Point with Case)					PDRYCB000	
	2 Contact Point					PDRYCB400	
	For Thermostat (On-Off / Mode / Fan Speed)					PDRYCB300	
	Modbus Communication					PDRYCB500	
EEV Kit for MULTI V Indoor						-	
IR Receiver						PWLRVN000	

Wired Remote Controller					Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel	
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRVCLOQW (White)	PQRCHCAQW (White)	PWLSSB21H

INDOOR UNIT SPECIFICATION

# LOW STATIC

ARNU05GL1G4 / ARNU07GL1G4 / ARNU09GL1G4



Model	Independent Unit	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4		
Capacity	Cooling	kW	1.7	2.2	2.8	
	Heating	kW	1.9	2.5	3.2	
Power Input	Cooling / Heating	W	29	31	39	
	Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Airflow Rate	Cooling / Heating	H / M / L	m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
			L/s	112 / 103 / 92	125 / 108 / 92	150 / 117 / 92
External Static Pressure	Min - Max	mmAq(Pa)	0(0) - 5(49)	0(0) - 5(49)	0(0) - 5(49)	
Sound Pressure	H / M / L	dBA	25 / 24 / 22	26 / 24 / 22	28 / 25 / 22	
Sound Power	H / M / L	dBA	48 / 46 / 45	50 / 47 / 45	53 / 49 / 45	
Dimensions	Body	W x H x D	mm	700 x 190 x 700	700 x 190 x 700	700 x 190 x 700
Net Weight	Liquid	mm	17.5	17.5	17.5	
			Gas	6.35	6.35	6.35
			Drain	12.7	12.7	12.7
Piping Connection	I.D	mm	25.4	25.4	25.4	
			Drain Pump	In-built	In-built	In-built

\* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under AS/NZS 3823.1.4

2) Rated : Power input

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3. I.D : ' Internal Diameter '

4. The Sound Pressure test condition is based on 50 Pa for middle static duct.

## Accessories

Model	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Dry Contact	Simple (1 Contact Point with Case)		PDRYCB000
	2 Contact Point		PDRYCB400
	For Thermostat (On-Off / Mode / Fan Speed)		PDRYCB300
	Modbus Communication		PDRYCB500
EEV Kit for MULTI V Indoor			PRGK024A0
IR Receiver			PWLRVN000

Wired Remote Controller					Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel	
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRVCLOQW (White)	PQRCHCAQW (White)	PWLSSB21H

# LOW STATIC

ARNU12GL2G4 / ARNU15GL2G4 / ARNU18GL2G4  
ARNU21GL3G4 / ARNU24GL3G4



Model	Independent Unit		ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4	ARNU21GL3G4	ARNU24GL3G4	
Capacity	Cooling	kW	3.6	4.5	5.6	6.2	7.1	
	Heating	kW	4.0	5.0	6.3	7.0	8.0	
Power Input	Cooling / Heating	W	41	56	71	72	103	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Airflow Rate	Cooling / Heating	H / M / L	m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
			L/s	167 / 142 / 117	208 / 167 / 142	250 / 208 / 167	292 / 233 / 200	333 / 267 / 200
External Static Pressure	Min - Max	mmAq(Pa)	0(0) - 5(49)	0(0) - 5(49)	0(0) - 5(49)	0(0) - 5(49)	0(0) - 5(49)	
Sound Pressure	H / M / L	dBA	30 / 27 / 25	33 / 30 / 28	35 / 32 / 29	35 / 29 / 28	36 / 33 / 28	
Sound Power	H / M / L	dBA	50 / 47 / 46	54 / 51 / 47	56 / 54 / 51	59 / 55 / 54	63 / 59 / 55	
Dimensions	Body	W x H x D	mm	900 x 190 x 700	900 x 190 x 700	900 x 190 x 700	1,100 x 190 x 700	1,100 x 190 x 700
Net Weight			kg	23.0	23.0	23.0	27.0	27.0
Piping Connection	Liquid		mm	6.35	6.35	6.35	9.52	9.52
	Gas		mm	12.7	12.7	12.7	15.88	15.88
	Drain	I.D	mm	25.4	25.4	25.4	25.4	25.4
Drain Pump				In-built	In-built	In-built	In-built	In-built

\* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under AS/NZS 3823.1.4

2) Rated : Power input

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3. I.D : ' Internal Diameter '

4. The Sound Pressure test condition is based on 50 Pa for middle static duct.

## Accessories

Model	ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4	ARNU21GL3G4	ARNU24GL3G4
Dry Contact	Simple (1 Contact Point with Case)				PDRYCB000
	2 Contact Point				PDRYCB400
	For Thermostat (On-Off / Mode / Fan Speed)				PDRYCB300
	Modbus Communication				PDRYCB500
EEV Kit for MULTI V Indoor		PRGK024A0			-
IR Receiver					PWLRVN000

Wired Remote Controller					Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel	
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRCVCLQW (White)	PQRCHCAQW (White)	PWLSSB21H

# LOW STATIC - SHORT DEPTH

ARNU05GL4G4 / ARNU07GL4G4 / ARNU09GL4G4 / ARNU12GL5G4  
ARNU15GL5G4 / ARNU18GL5G4 / ARNU24GL5G4



Model	Independent Unit		ARNU05GL4G4	ARNU07GL4G4	ARNU09GL4G4	ARNU12GL5G4	ARNU15GL5G4	ARNU18GL5G4	ARNU24GL5G4	
Capacity	Cooling	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1	
	Heating	kW	2.2	2.5	3.2	4.0	5.0	6.3	8.0	
Power Input	Cooling / Heating	W	40	40	40	85	85	85	115	
Power Supply		Ø / V / Hz	1 / 220 - 240 / 50	1 / 220 - 240 / 50	1 / 220 - 240 / 50	1 / 220 - 240 / 50	1 / 220 - 240 / 50	1 / 220 - 240 / 50	1 / 220 - 240 / 50	
Airflow Rate	Cooling / Heating	H / M / L	m³/min	7.0 / 6.5 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
			L/s	116 / 108 / 91	125 / 108 / 92	150 / 117 / 92	167 / 142 / 117	208 / 167 / 142	250 / 208 / 167	333 / 267 / 200
External Static Pressure	Min - Max	Pa	0 - 50	0 - 50	0 - 50	0 - 50	0 - 50	0 - 50	0 - 50	
Sound Pressure	H / M / L	dBA	26 / 25 / 22	27 / 26 / 23	30 / 26 / 23	31 / 29 / 26	34 / 31 / 29	36 / 34 / 31	39 / 35 / 32	
Sound Power	H / M / L	dBA	-	-	-	-	-	-	-	
Dimensions	Body	W x H x D	mm	700 x 190 x 460	700 x 190 x 460	700 x 190 x 460	900 x 190 x 460	900 x 190 x 460	900 x 190 x 460	1,100 x 190 x 460
Net Weight			kg	14.6	14.6	14.6	20.0	20.0	20.0	22.2
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas		mm	12.7	12.7	12.7	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Drain Pump				In-built	In-built	In-built	In-built	In-built	In-built	In-built

\* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under AS/NZS 3823.1.4

2) Rated : Power input

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3. I.D : ' Internal Diameter '

4. The Sound Pressure test condition is based on 50 Pa for middle static duct.

## Accessories

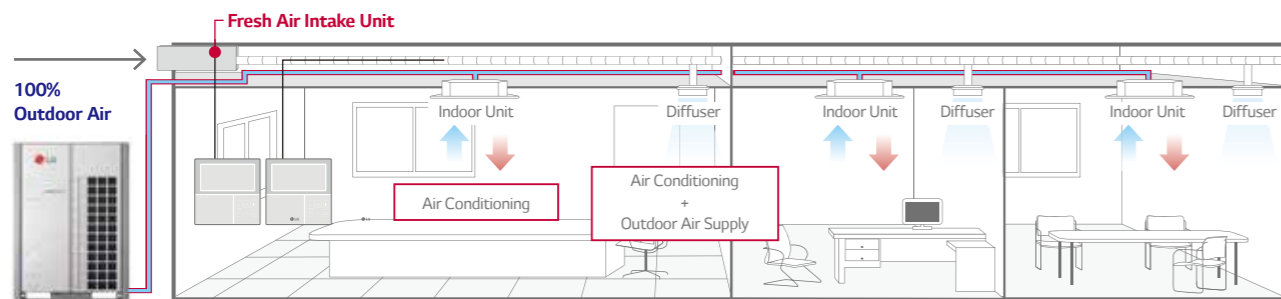
Model	ARNU05GL4G4	ARNU07GL4G4	ARNU09GL4G4	ARNU12GL5G4	ARNU15GL5G4	ARNU18GL5G4	ARNU24GL5G4
Dry Contact	Simple (1 Contact Point with Case)						PDRYCB000
	2 Contact Point						PDRYCB400
	For Thermostat (On-Off / Mode / Fan Speed)						PDRYCB300
	Modbus Communication						PDRYCB500
EEV Kit for MULTI V Indoor				PRGK024A0			-
IR Receiver							PWLRVN000

Wired Remote Controller					Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel	
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRCVCLQW (White)	PQRCHCAQW (White)	PWLSSB21H

# FRESH AIR INTAKE UNIT

## Fresh Outdoor Air Supply

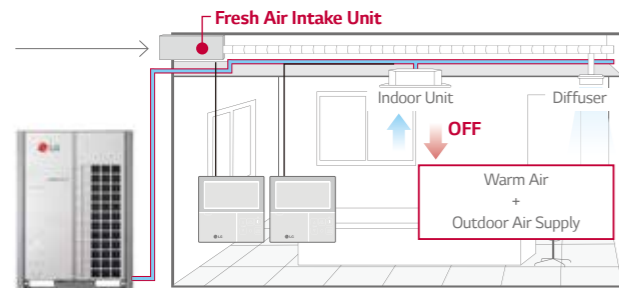
The LG Fresh Air Intake Unit (FAU) is the alternative solution for ventilation. It supplies fresh outdoor air indoors as well as being able to cool and heat air inside simultaneously. It means the indoor space can have positive air pressure consistently, which can block cold, hot or contaminated air from the outside.



## Economic Operation

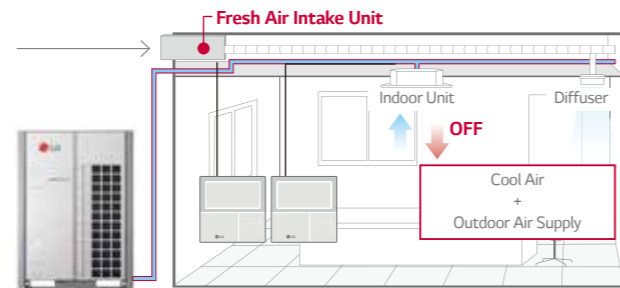
Blowing the natural outdoor air inside when the seasons change can reduce operating costs.

### Spring Season



MULTI V 5 Outdoor Unit

### Autumn Season

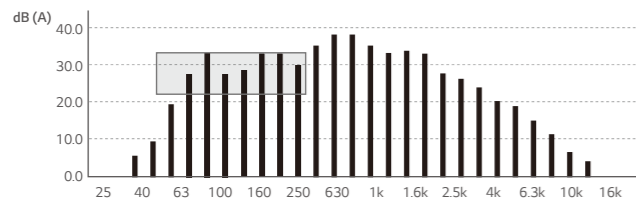


MULTI V 5 Outdoor Unit

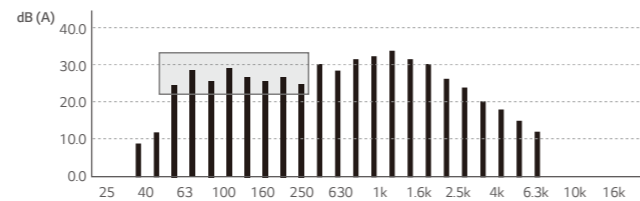
## BLDC Fan Motor

Can reduce noise at low frequencies.

### AC Tap Motor



### BLDC Motor



# FRESH AIR INTAKE UNIT

ARNU76GB8Z4 / ARNU96GB8Z4



Model	Independent Unit		ARNU76GB8Z4	ARNU96GB8Z4
Capacity	Cooling	kW	22.4	28.0
	Heating	kW	21.4	26.7
Power Input	Cooling / Heating		253	360
			W	
Power Supply			Ø / V / Hz	1 / 220-240 / 50
Airflow Rate	Cooling / Heating	H / M / L	23.7 / 13.2 / 13.2	35.7 / 23.7 / 23.7
		m <sup>3</sup> /min		
Sound Pressure	H / M / L	dBA	45 / 43 / 43	47 / 45 / 45
		L/s	395 / 220 / 220	595 / 395 / 395
Sound Power	H / M / L		70 / 67 / 67	72 / 68 / 68
Dimensions	Body	W x H x D	1,562 x 460 x 688	1,562 x 460 x 688
Net Weight			kg	73.0
			mm	9.52
Piping Connection	Liquid		19.05	22.2
	Gas		25.0	25.0
	Drain	I.D		

\* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under AS/NZS 3823.1.4

2) Rated : Power input

Note : 1. Capacities are based on the following conditions

- Cooling : Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

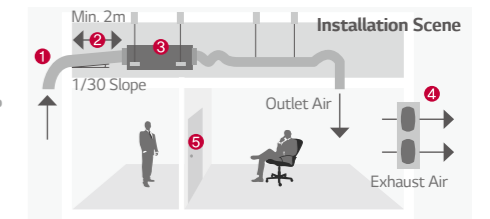
- Heating : Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

2. Capacities are net capacities

3. Noise Level is under standard mode [For actual High Mode (Factory set) condition, Noise Level may exceed the standard level by 1.5db (A)]

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

5. I.D : ' Internal Diameter '



- 1 Inlet Hood
- 2 Intake Air Duct
- 3 Fresh Air Intake Unit
- 4 Exhaust Fan
- 5 Door

## CAUTION

- 1. Operation range (Cooling : 5°C ~ 43°C, Heating : -5°C ~ 43°C)
- 2. Installation of exhaust fan is recommended for a sealed room.
- 3. Indoor Unit Connection

No	Connection Condition	Combination
1	Fresh air intake units only are connected with outdoor units	1) The total capacity of fresh air intake unit should be 50 - 100% of outdoor unit. 2) The max quantity of fresh air intake is 4 units.
2	Mixture connection with general indoor unit and fresh intake units	1) The total capacity of indoor units (Standard Indoor Unit + Fresh Air Intake Unit) should be 50 - 100% of outdoor unit. 2) The total capacity of fresh air intake unit should be less than 30% of the total capacity of indoor units.

## Accessories

Model	ARNU48GBRZ4	ARNU76GB8Z4	ARNU96GB8Z4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000	
	2 Contact Point	PDRYCB400	
	For Thermostat (On-Off / Mode / Fan Speed)	PDRYCB300	
	Modbus Communication	PDRYCB500	
IR Receiver		PWLRVN000	

Wired Remote Controller					Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel	
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRVCLOQW (White)	PQRCHCAQW (White)	PWLSSB21H



# CEILING SUSPENDED UNIT

## Differentiated Design

With its stunning V-shaped design and black vane, LG's new ceiling-suspended air conditioner exudes modern elegance appropriate for any space.



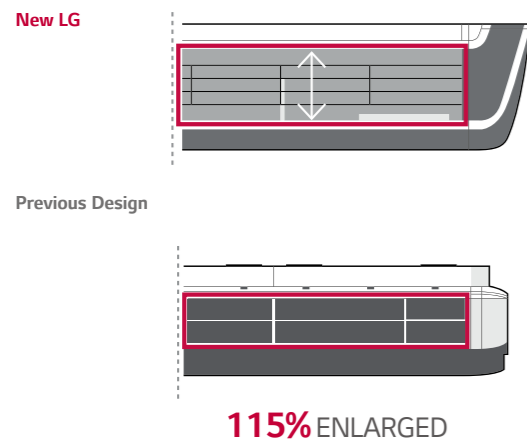
## Powerful Cooling & Heating

The new LG Ceiling Suspended Unit is effective for large areas due to its powerful air speed in cooling and heating operation. The powerful air speed and volume means the air flow can reach up to 15m away from the grill.

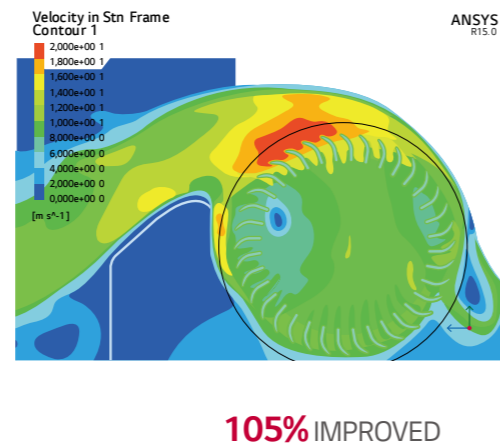


The enlarged outlet space, optimises the Air flow Path and improves Heat Exchanger performance.

### Outlet Space

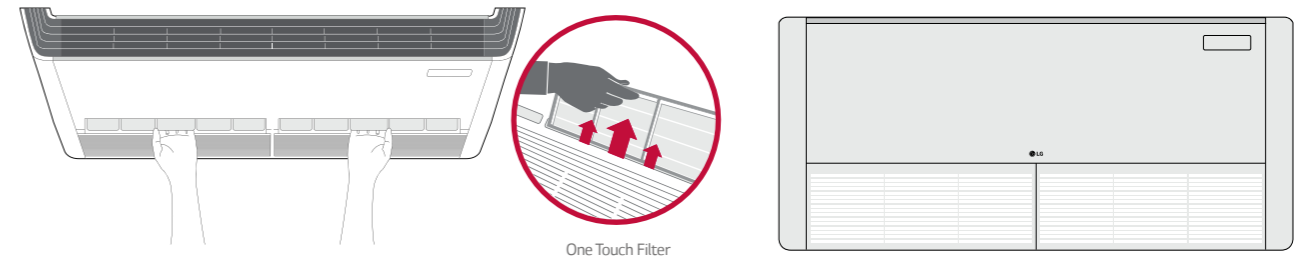


### Optimised the Air flow Path



## One Touch & 2 Piece Filter

Easy in / out filter structure as well as a simplified two-piece filter, slides out for easy cleaning and maintenance.



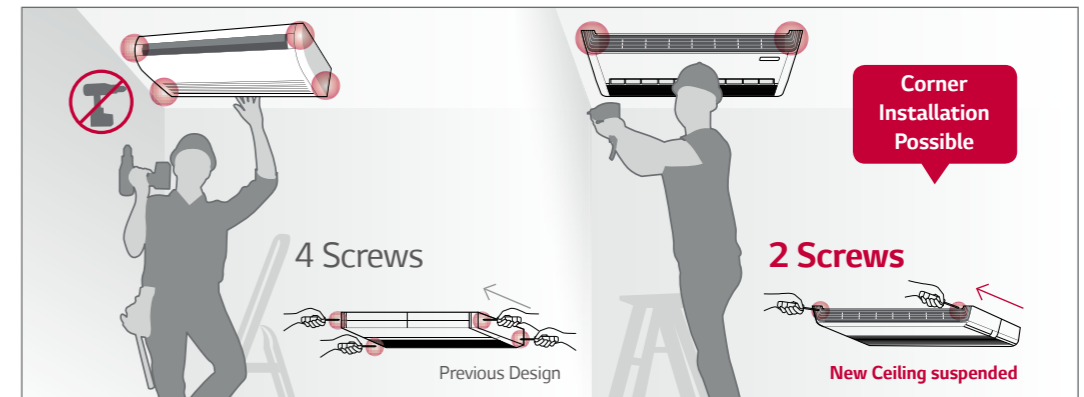
## Two Thermistors Control

Users can purchase an optional control panel that includes a second thermistor, allowing for temperature checks from multiple locations.



## Easy installation

Installation speed and ease is improved by reducing the total number of screws and placing them on the easily accessible front panel.



# CEILING SUSPENDED UNIT

ARNU18GV1A4 / ARNU24GV1A4  
ARNU36GV2A4 / ARNU48GV2A4



Model	Independent Unit		ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4		
Capacity	Cooling		kW	5.6	7.1	10.6	14.1	
	Heating		kW	6.3	8.0	11.9	15.9	
Power Input	Cooling / Heating		W	23	25	84	91	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Airflow Rate	Cooling / Heating	H / M / L	m³/min	13.5 / 12.5 / 12	14 / 13 / 12	27 / 24 / 20	29 / 24 / 20	
			L/s	225 / 208 / 200	233 / 217 / 200	450 / 400 / 333	483 / 400 / 333	
Sound Pressure			H / M / L	dB(A)	36 / 34 / 33	37 / 35 / 33	48 / 46 / 44	49 / 47 / 44
Sound Power			H / M / L	dB(A)	61 / 59 / 56	62 / 59 / 56	68 / 66 / 64	68 / 67 / 66
Dimensions	Body	W x H x D	mm	1200 x 690 x 235	1200 x 690 x 235	1,600 x 690 x 235	1,600 x 690 x 235	
Net Weight			kg	29.0	29.0	37.0	37.0	
Piping Connection	Liquid		mm	6.35	9.52	9.52	9.52	
	Gas		mm	12.7	15.88	15.88	15.88	
	Drain	I.D	mm	16.0	16.0	16.0	16.0	

\* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under AS/NZS 3823.1.4

2) Rated : Power input

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3. I.D : ' Internal Diameter '

## Accessories

Model	ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4
Dry Contact	Simple (1 Contact Point with Case)		PDRYCB000	
	2 Contact Point		PDRYCB400	
	For Thermostat (On-Off / Mode / Fan Speed)		PDRYCB300	
	Modbus Communication		PDRYCB500	

Wired Remote Controller					Wireless Remote Controller
Premium	Standard III	Standard II	Simple	Simple for Hotel	
PREMTA000	PREMTB100 (White)	PREMTB001 (White)	PQRCVCL0QW (White)	PQRCHCA0QW (White)	PWLSSB21H

# COMPATIBILITY

No.	New Function Name (4th generation indoor)	Function Description	Required Controller		Remarks
			Wired Remote Controller	Centralized Controller	
1	Energy Monitoring (Accumulated Electric Energy Check)	Monitoring accumulated power consumption by Wired Remote Controller	•	•	* Necessary to install the PDI (Power Distribution Indicator) and central controller * Combined with Multi V Water S outdoor unit, this function is not available.
		Monitoring accumulated power consumption by Central Control Device / PDI	-	•	* Necessary to install the PDI (Power Distribution Indicator) * To make a report, central controller must be installed
2	2 Set Point	1) 2 set point control by Indoor and Central controller 2) Synchronisation function with remote control (Synchronisation Setting and Monitoring)	•	•	* Wired remote controller and central controller must be installed * Combined with Multi V Water S outdoor unit, this function is not available.
3	Occupied / Unoccupied Scheduling Function (Sub Func. Enable)	1) Synchronisation according to occupied/unoccupied by Indoor and Central control 2) Synchronisation icon with remote controller (Synchronisation Monitoring)	•	or •	* Centralised control is able to when you combine only 4th generation indoor units (Use together with 2nd generation and 4th generation indoors, only wired remote controller is able to set this function as existing way) * Wired remote controller or central controller must be installed (Function can be activated using just one control device.) * Combined with Multi V Water S outdoor unit, this function is not available.
4	Group Control	Group Control can use Additional function	•	-	* Check more details in PDB (Product Data Book) (Additional functions added using together same type of indoor units)
5	Test Run (Heating)	Test run mode can be operated in cooling mode and heating mode for easy service	•	-	
6	Model Information Monitoring	Product Type / Indoor Type / Indoor capacity information can be monitored by remote controller	•	-	
7	Indoor unit address checking	Wired remote controller can check indoor unit address information	•	-	
8	Refrigerant Leakage Detection	Function error sign display when refrigerant leakage occurred	•	-	* Central controller has been installed, CH230 error code can be recognized (Old/New Same) * Without Central Controller; it is able to recognise with wired remote controller (CH230) * Combined with Multi V Water S outdoor unit, this function is not available. * Accessory PRLDNV50 must be separately ordered
9	Thermo On / Off range Setting (Cooling)	User can set cooling thermo on/off range with wired remote controller for prevention overcooling	•	-	* Thermo On / Off temperature setting (3 step)
10	Thermo On / Off range Setting (Heating)	User can set heating thermo on/off range with wired remote controller for prevention overheating. (4 Steps)	•	-	* Thermo On / Off temperature setting (4 step)
11	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	Depends on the installation environment, 4th generation Ceiling Concealed Duct can control the static pressure by 11 steps for providing comfortable environment	•	-	* Only applied in Ceiling Concealed Duct
12	1 point External Input (On / Off control)	Indoor unit can control external devices without purchasing Dry contact as an accessory (All 4th generation indoors)	•	-	* Simple On/Off control by Dry Contact at Indoor [Example of Contact port by product type] * 2 Way Cassette : CN-CC Port (Wired remote controller installation function mode 41 is required) * 1 Way / 4 Way Cassette / Ceiling Concealed Duct / Wall Mounted Unit Console / FAU / Floor Standing (with case / without case) : CN-EXT Port
13	Filter Sign (Remaining Time)	The alarm activates when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen.	•	-	
14	Auto restart function Disable / Enable	After the power failure compensation, stand by at OFF mode Restore the operation for the status before the power off	•	-	
15	Indoor Humidity display	Monitoring indoor humidity Wired Remote Controller	•	-	* Available only with Multi V 5
16	Comfort Cooling setting	set the outdoor unit Comfort cooling operation value	•	-	* Available only with Multi V 5
17	Smart Load Control setting	Change the outdoor unit's Smart Load Control stage value.	•	-	* Available only with Multi V 5
18	ODU Refrigerant Noise Reduction setting	set the outdoor unit's refrigerant noise reduction function	•	-	* Available only with Multi V 5
19	Low noise mode time setting	set the start and end time of the outdoor unit's low noise mode operation	•	-	* Available only with Multi V 5

Note : 1) No. 1, 2, 3, 8 : Functions are available to use together with 4<sup>th</sup> generation Indoor units only. If used together 2<sup>nd</sup> generation indoor unit and 4<sup>th</sup> generation indoor unit functions will not be activate. Combined with MULTI V Water S outdoor unit this function is not available

2) No. 4, 5, 6, 7, 9, 10, 11, 12, 13, 14 : If used together 2<sup>nd</sup> generation indoor unit and 4<sup>th</sup> generation indoor unit these functions will be activate only in 4<sup>th</sup> generation indoor

3) 2<sup>nd</sup> generation indoor unit : Ceiling & Floor Convertible Unit, Ceiling Suspended Unit, HYDR0 KIT (Low Temp. / High Temp.), ERV DX (with Humidifier, without Humidifier), AHU Communication Kit

# COMPATIBILITY

Wired Remote Controller							
Premium (PREMTA000)	Standard III (PREMTB100)	Standard II (PREMTB001)	Simple		AC EZ Touch (PACEZA000)	AC Smart 5 (PACS5B000)	AC Manager 5 (PACM5B000)
			Simple for Hotel (PQRCHCA0Q / QW)	Simple (PQRCVCLOQ / QW)			
•	•	•	X	X	•	•	•
•	•	X	X	X	•	•	•
•	•	X	X	X	•	•	•
•	•	•	X	X			
•	•	•	X	X			
•	•	•	X	X			
•	•	•	X	X			
•	•	•	X	X			
•	•	•	X	X			
•	•	•	X	X			
•	•	•	X	X			
•	•	•	•	•			
•	•	•	•	•			
•	•	•	•	•			
X	•	•	X	X			
•	•	•	X	X			
•	•	•	X	X			
X	•	X	X	X			
X	•	X	X	X			
X	•	X	X	X			
X	•	X	X	X			
X	•	X	X	X			
•	•	•	•	•			

X: Not included this function in the Controller

# HOT WATER SOLUTION

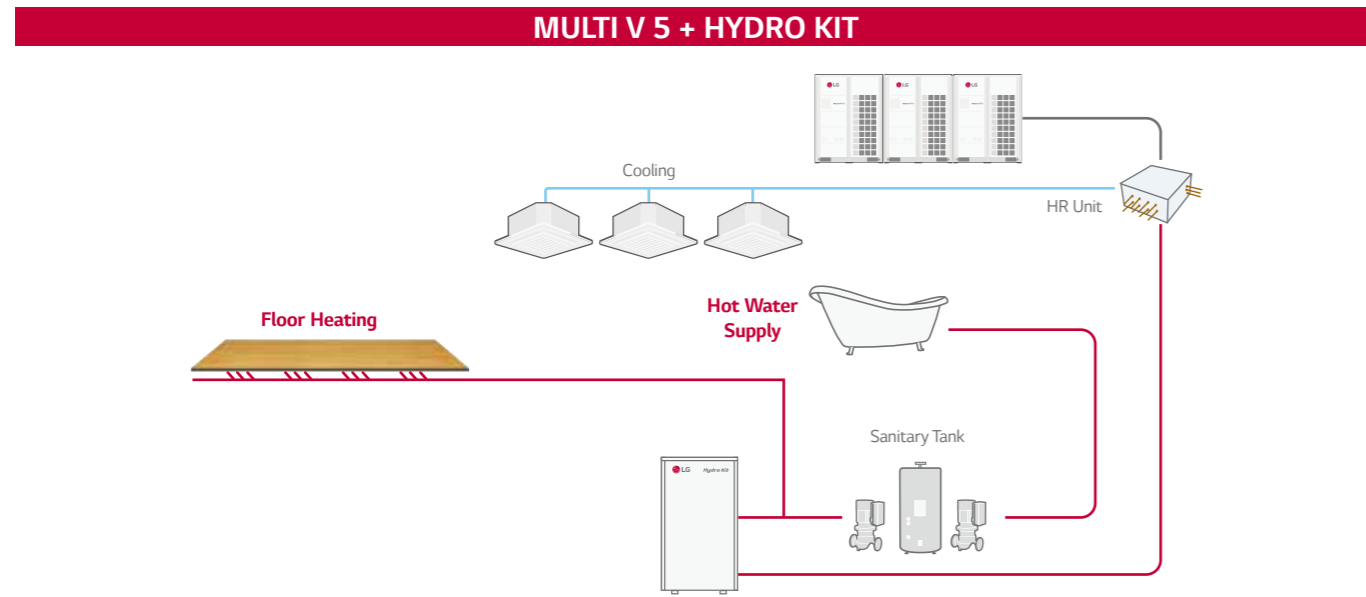


HYDRO KIT

# HYDRO KIT

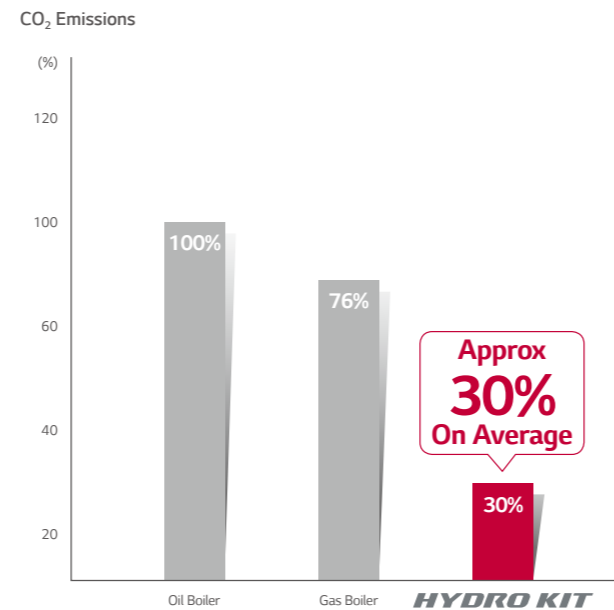
## Easy Installation

Easy to install as it uses a compact and modular structure.



## Less Environmental Impact Solution

Higher efficiency and reduction of CO<sub>2</sub> emissions as compared to oil or gas boilers..



## Saving Cost through High Efficiency

Possible to install with equivalent levels of capital cost as a boiler system and minimise energy bills thanks to lower operation costs.

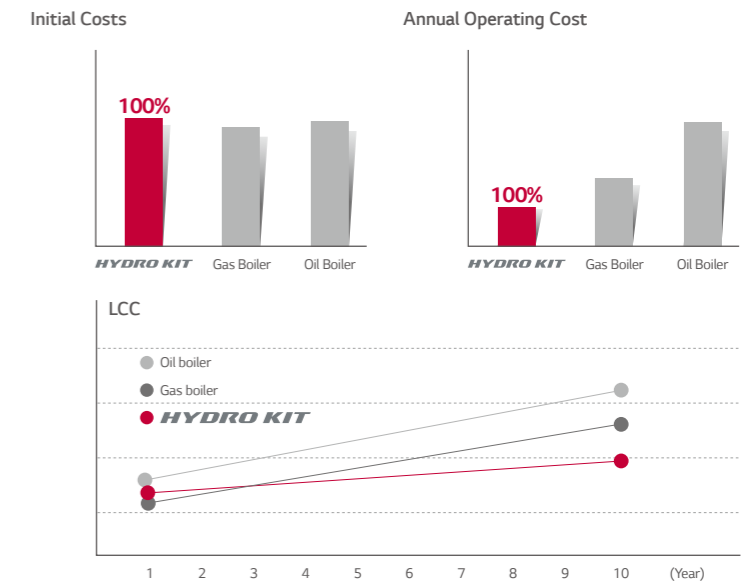
1st Proposal MULTI V 5 HYDRO KIT (Air Conditioning + Hot Water Supply + Floor Heating)

2nd Proposal MULTI V 5 Air-Conditioning + Gas Boiler (Hot Water Supply + Floor Heating)

3rd Proposal MULTI V 5 Air-Conditioning + Oil Boiler (Hot Water Supply + Floor Heating)

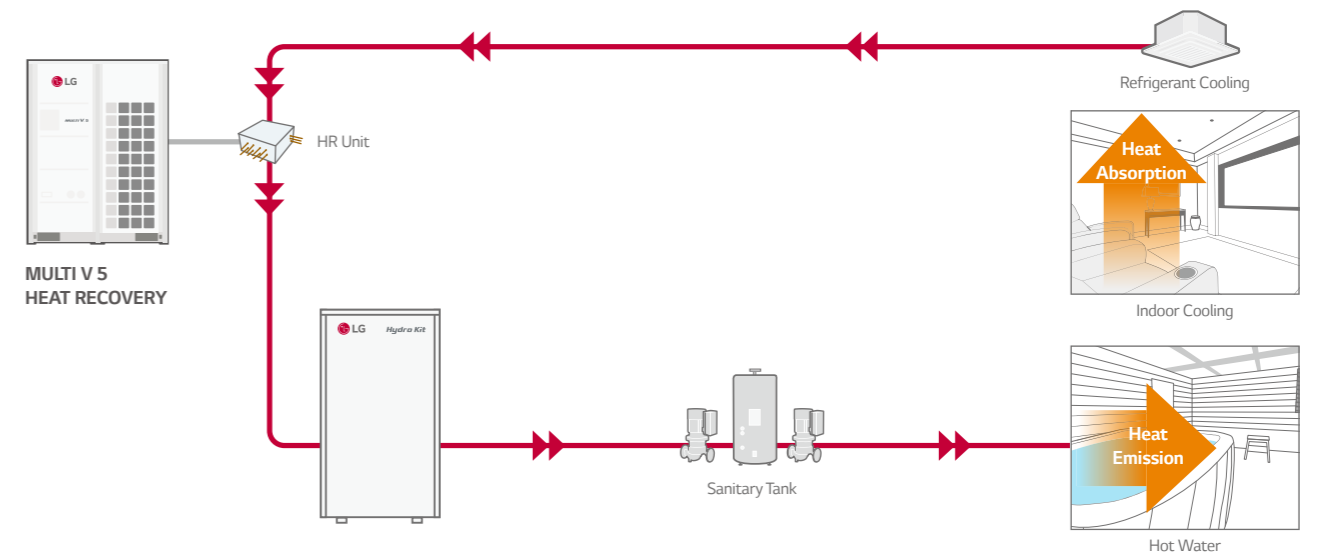
### Analysis Conditions

- Building Type : Dormitory, Flats
- Cooling / Floor Heating / Sanitary Hot Water for 10 years
- Cooling : MULTI V IV Indoor Unit
- Floor Heating : Medium Temp. HYDRO KIT (1ea)
- Sanitary Hot Water : High Temp. HYDRO KIT (2ea), Sanitary Hot Water Tanks
- Electricity Cost : Average Cost in EU
- Gas Cost : Average Cost in EU
- Oil Cost : Average Cost in EU



## Energy Saving through MULTI V 5 Heat Recovery

Energy costs can be minimized by reusing the wasted heat from indoor units.





# HYDRO KIT

## High Temperature Concept of HYDRO KIT

Provides high temperature up to 80°C with dual inverter cascade cycle, applicable for buildings that require large amount of hot water supply.

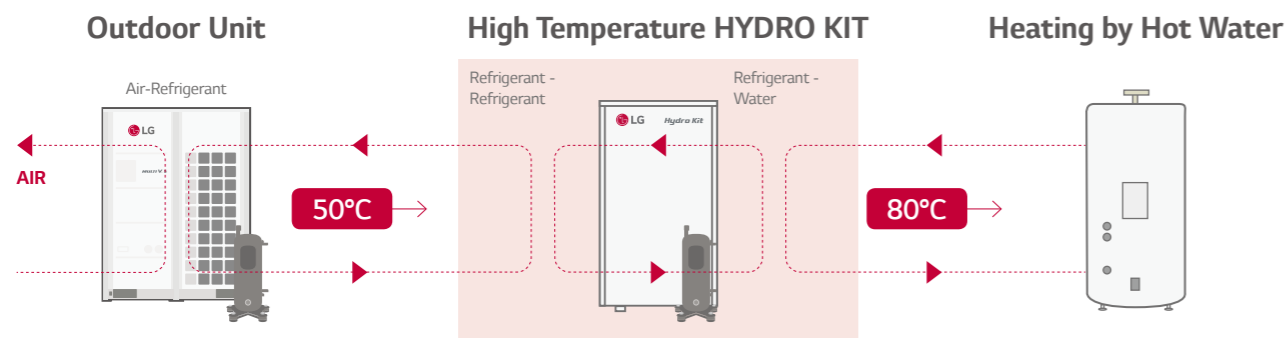
### Dual Inverter Cascade Cycle Technology

- Max 55% improved capacity compared to mid-temp. of HYDRO KIT
- Max 20% reduced heating operating cost compared to mid-temp. of HYDRO KIT
- Cascade R410A to R134A BLDC compressor technology

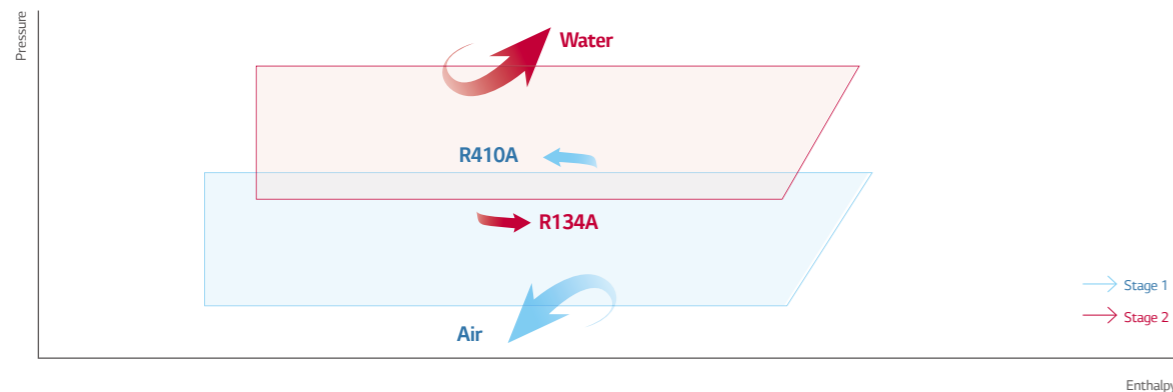
### High Volume of Hot Water

- Compared to lower temperature, storing high temperature water in a sanitary tank increases the quantity of mixed water available for the user.

## High Temperature of HYDRO KIT Cycle Diagram



### High Temperature Technology



## Various Applications

Applicable to a variety of facilities including hospitals, residences and resorts that need floor heating and domestic hot water supply.

### Office



### University / School



### Hospital / Clinic



### Shopping Mall / Restaurant



### Hotel / Resort

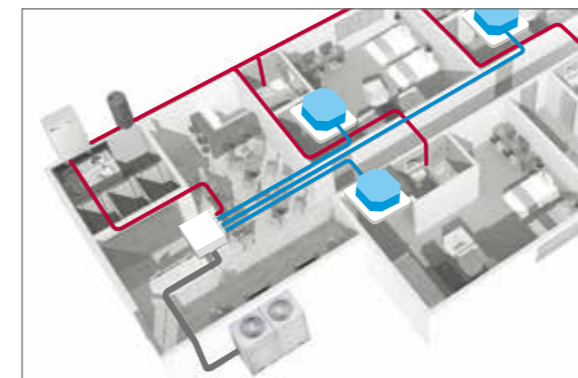


### Factory Facilities



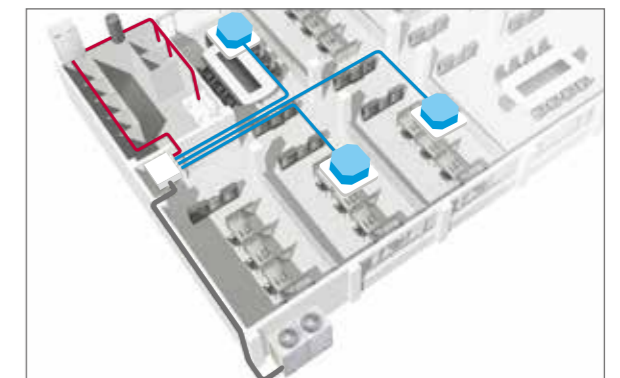
## Hotel Application

It is possible to operate cooling and heating constantly at the same time during the summer, to provide hot water for bathrooms by using waste heat energy of indoor cooling from an indoor unit.



## Office Application

Hot water can be supplied at all times in the office by cooling the HR unit to warm up the sanitary tank, using waste energy.



HOT WATER SOLUTION KEY FEATURES

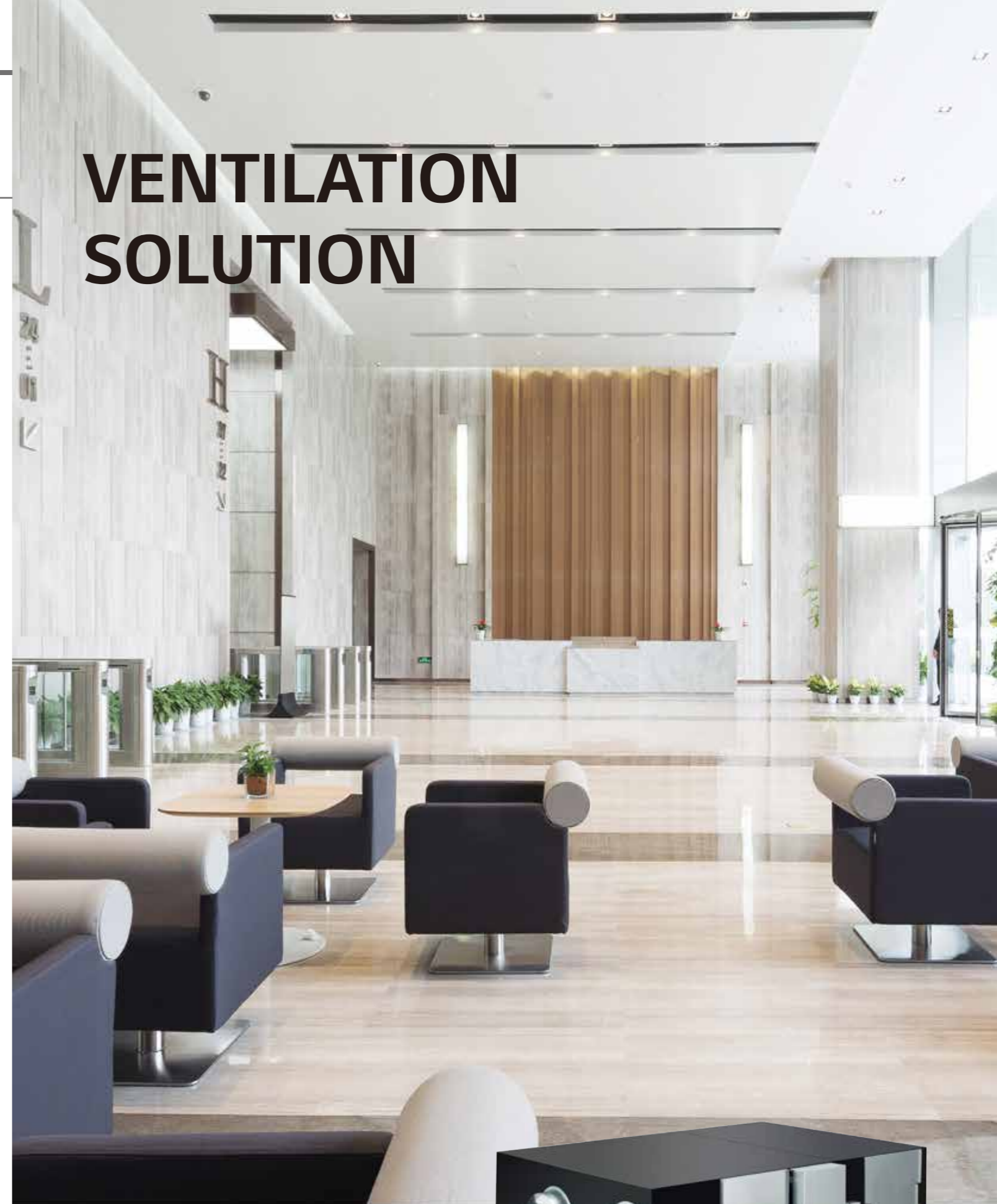
# HYDRO KIT

ARNH04GK3A4/ ARNH08GK3A4



Type				High Temp.	High Temp.	
Model				ARNH04GK3A4	ARNH08GK3A4	
Power Supply			Ø / V / Hz	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	
Capacity (Rated)	Cooling			kW	-	
	Heating			kW	13.8	
Power Input	Cooling	Normal			kW	-
	Heating	Normal			kW	2.3
Water Outlet Temperature	Cooling	Min			°C	-
	Heating	Max			°C	80°C
Casing				Painted Steel Plate	Painted Steel Plate	
Dimensions	Body	W x H x D	mm	520 x 1,080 x 330	520 x 1,080 x 330	
			inch	20-15 / 32 x 42-17 / 32 x13	20-15 / 32 x 42-17 / 32 x13	
Net Weight			kg (lbs)	88.0 (194.0)	94.0 (207.2)	
Heat Exchanger	Refrigerant to Water	Type			Brazed Plate HEX	Brazed Plate HEX
		Rated Water Flow	L/min	19.8	36.0	
		Head Loss	kPa	5.0	20.0	
Compressor	Refrigerant to Refrigerant	Type			Brazed Plate HEX	Brazed Plate HEX
		Type			Twin Rotary Inverter	Twin Rotary Inverter
		Inlet	inch	Male PT 1	Male PT 1	
Piping Connections	Water Side	Outlet	inch	Male PT 1	Male PT 1	
		Refrigerant Side	Liquid Side	mm (inch)	9.52 (3/8)	9.52 (3/8)
	Gas Side		mm (inch)	15.88 (5/8)	19.05 (3/4)	
		Drain Piping Connection			mm (inch)	Male PT 1
Sound Pressure Level	Cooling			dB (A)	-	
	Heating			dB (A)	43	
Refrigerant	Refrigerant to Refrigerant	Refrigerant Type		R410A	R410A	
		Control		EEV	EEV	
	Refrigerant to Water	Refrigerant Type		R134A	R134A	
		Precharged Amount	kg (lbs)	2.3(5.1)	3.0(6.6)	
Operation Range	Connected to Heat Pump	Cooling	°C (DB)	-	-	
		Heating	°C (DB)	-20°C - 35°C	-20°C - 35°C	
	Connected to Heat Recovery	Cooling	°C (DB)	-	-	
		Heating	°C (DB)	-20°C - 43°C	-20°C - 43°C	
	Combination Ratio	Only Hydrokit	Min - Max	%	50 - 100	50 - 100
		Hydrokit + Standard IDUs	Min - Max	%	50 - 130	50 - 130

# VENTILATION SOLUTION



\* This product contains Fluorinated Greenhouse Gases. (R410A, R134A)

Note : 1. Capacities are based on the following conditions :

- Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 55°C (131°F) / Outlet 65°C (149°F)

2. Piping Length : Interconnected Pipe Length = 7.5m

3. Difference Limit of Elevation (Outdoor - Indoor Unit) is Zero.

4. MULTI V S 4HP (ARUN040GSS0, ARUN040LSS0) cannot be connected to Hydro Kit.

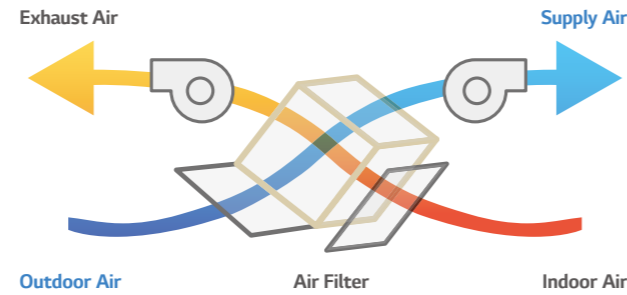
5. MULTI V Water S cannot be connected to Hydro Kit.

ERV

# ERV

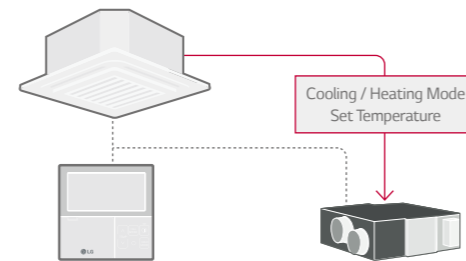
## High Efficiency Heat Exchanger

Efficiency and comfort is ensured through the high-efficiency energy recovery central core which recovers energy from the indoor air and transfers it to the fresh incoming air without mixing airstream.



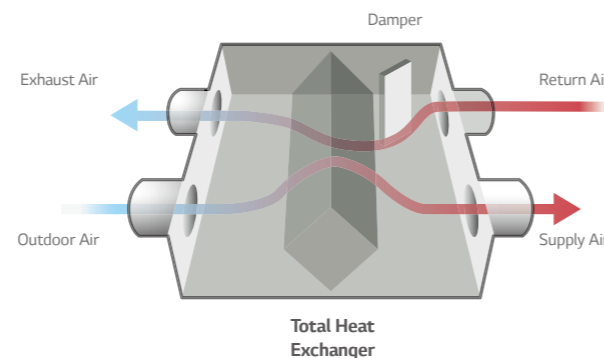
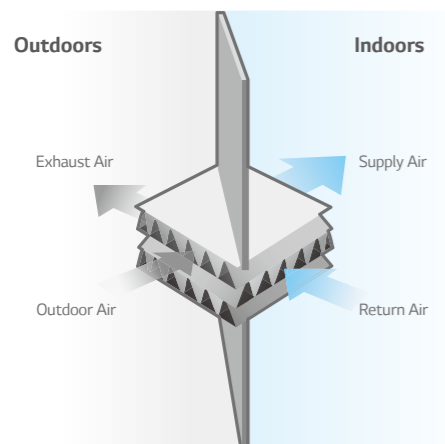
## Interlocking with Air Conditioning System

- LG ERV can be interlocked with air conditioners and controlled individually.
- This function can be operated when the system is connected with a remote control.



## Compulsory Exhausting System

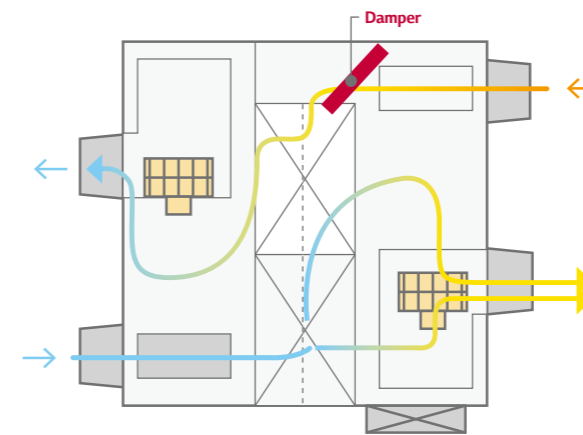
The exhausting system using high static and sirocco fan removes dust from the indoor air. Supply and exhaust air flows are completely separated in the total heat exchanger, LG ERV filters the outdoor air to supply indoor fresh air.



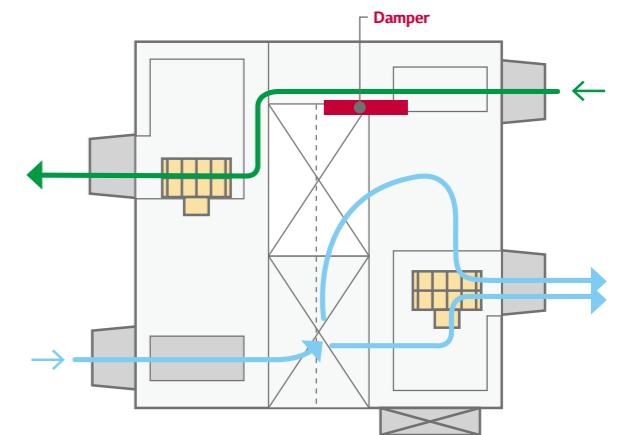
## Bypass Ventilation

LG ERV automatically switches the ventilation mode (Enthalpy Heat Exchange Mode / Bypass Mode) according to the indoor / outdoor temperature.

### Enthalpy Heat Exchange Mode (Summer / Winter)



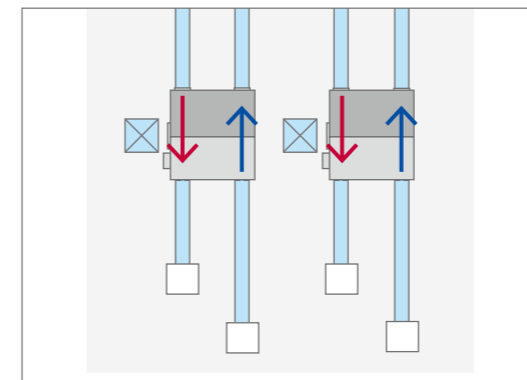
### Bypass Mode (Seasonal Change)



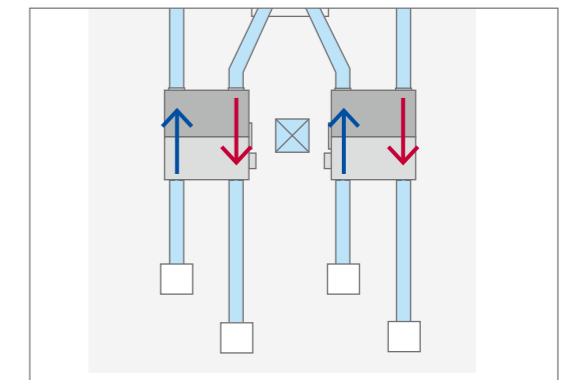
## Flexibility of Installation

It's possible to install upside down when you need only one inspection hole.

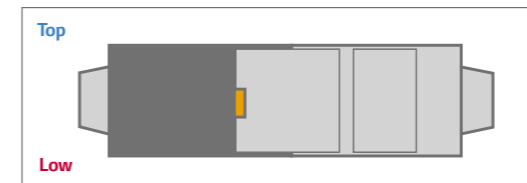
### Normal installation of 2 units



### Reverse installation of 1 unit (Left unit)



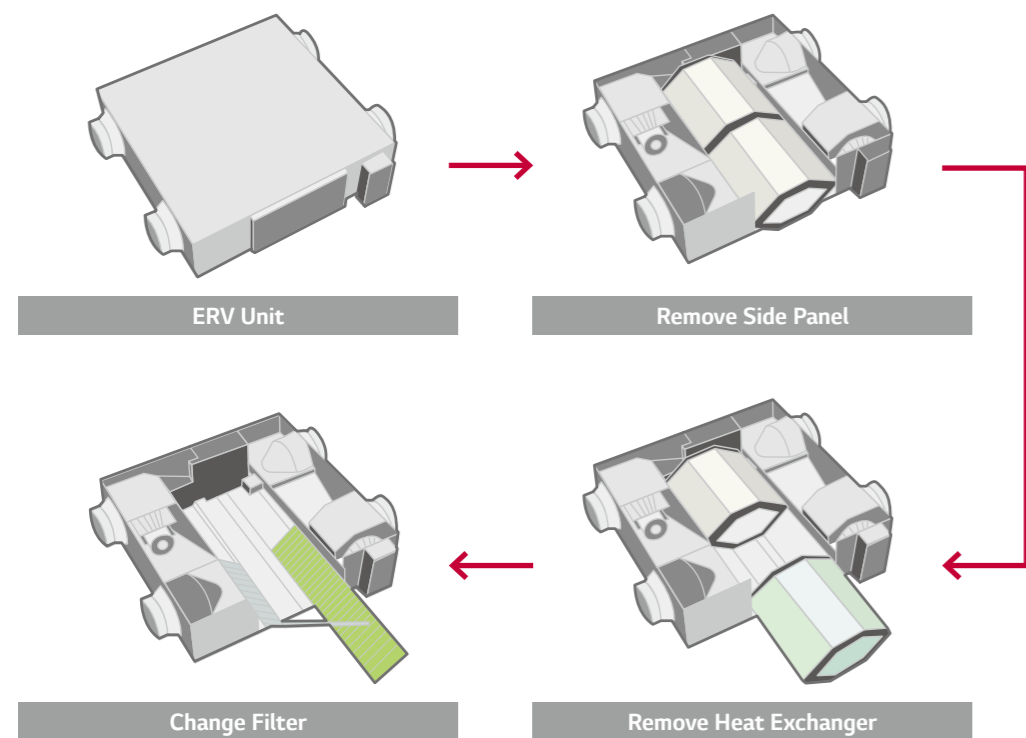
### Inspection chamber



# ERV

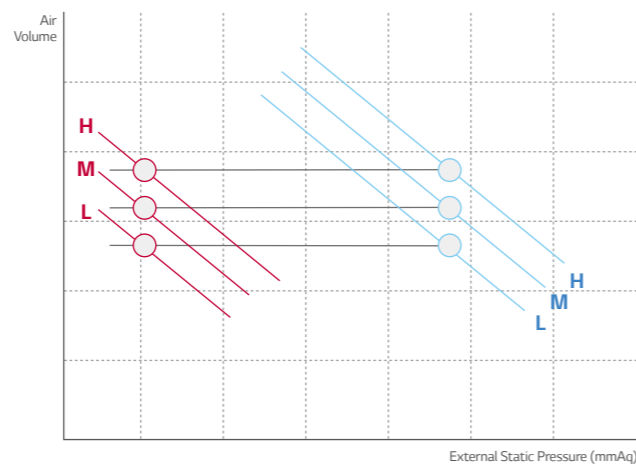
## Easy Cleaning and Filter Change

It is easy and convenient to change and clean the filter.



## External Static Pressure Control

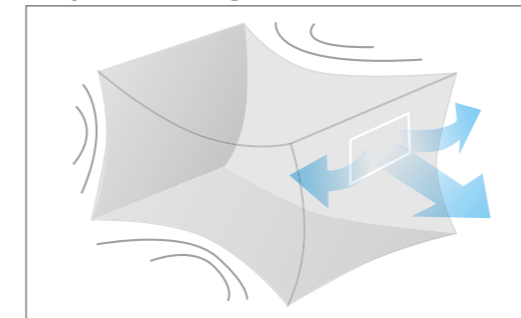
The high static pressure fan can control the air volume depending on the length of the duct. It is also easy to control the pressure level by using the remote controller for a more flexible duct installation and easier testing.



## Fast Ventilation Mode

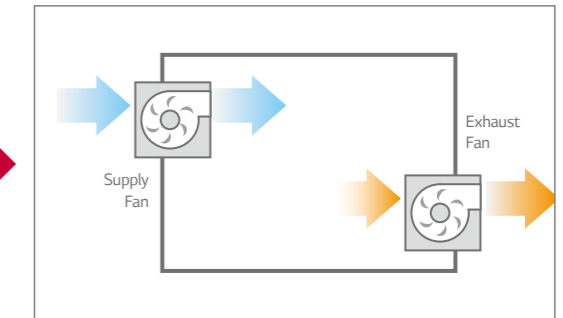
Fast ventilation mode reduces the spread of dust under negative indoor pressure.

### Only Exhausting



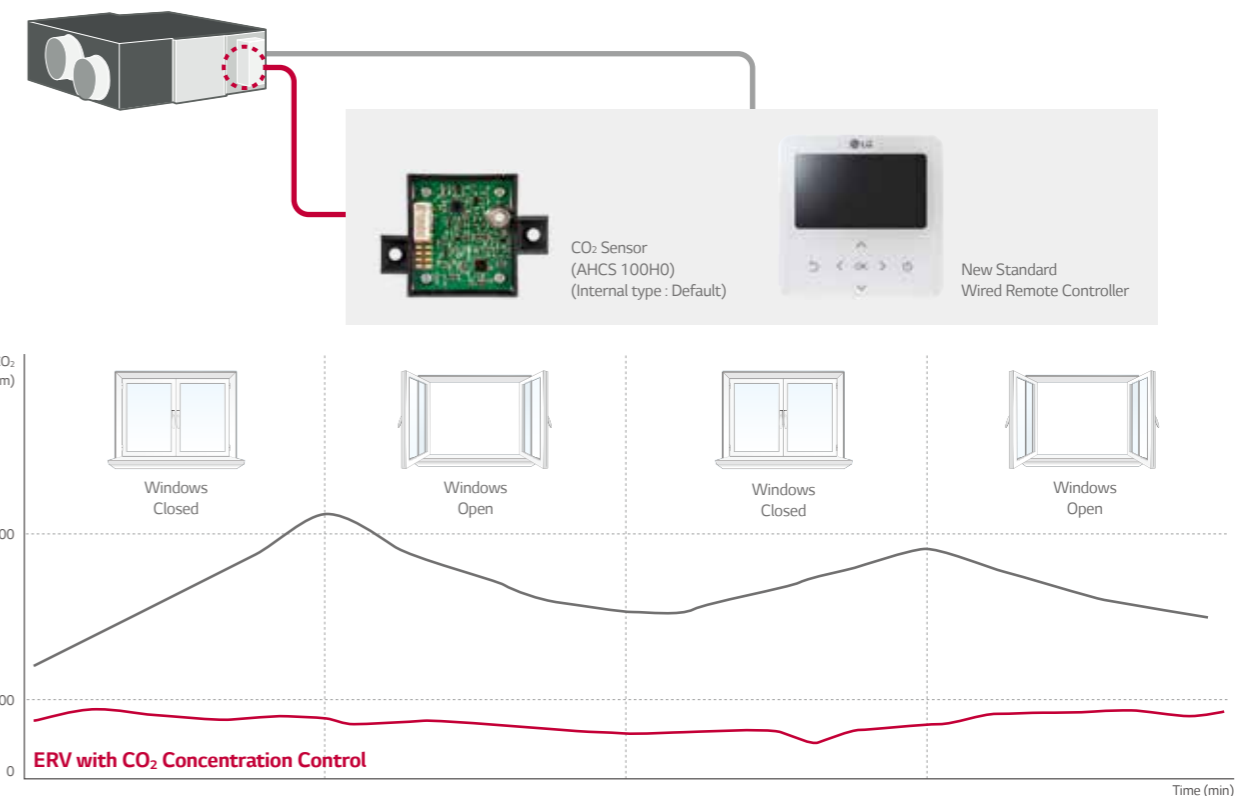
Exhausting operation causes negative indoor air pressure, and cannot fully ventilate.

### Fast Ventilation Mode



## CO<sub>2</sub> Concentration Control\*

Using CO<sub>2</sub> sensor, LG ERV controls exhaust air flow automatically to keep indoor air fresh under settled CO<sub>2</sub> concentration.



\*Optional accessory.



# ERV

## New Easy Controller

New wired remote controller is easy for usage.



### Convenient!

- Flexible display
  - Dual display with air conditioner.
  - Zoom selected directory to increase legibility.



### Easy!

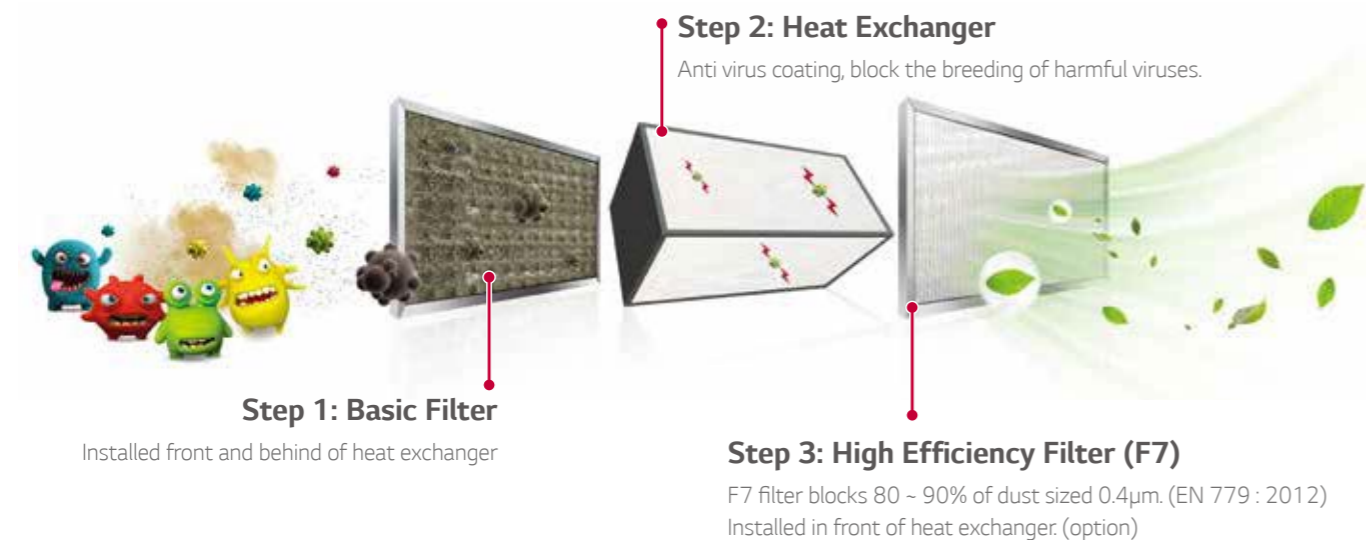
- Navigation buttons, easy to use.
- Easy installation setting

### Visible!

- Indoor CO<sub>2</sub> level
- Alarm for filter change / Remained time to change filters

## Air Purifying System (3 Steps)\*

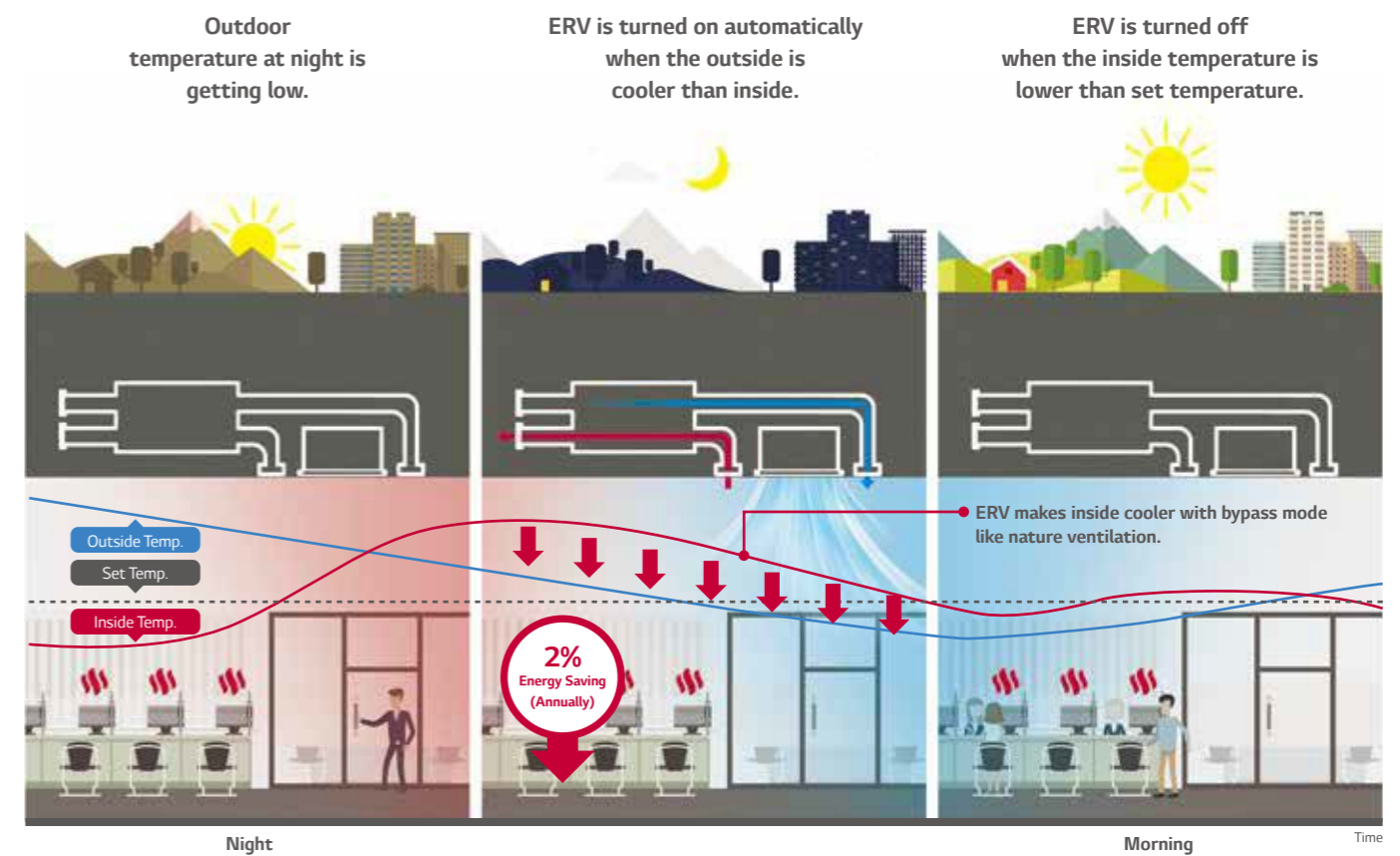
LG ERV can help effectively remove the various harmful substances, such as micro dust and viruses. Possible selection of the high efficiency filter(F7) for micro dust removed.



\*Optional accessory.

## Night Time Cooling

Discharge the indoor heat in the summer night and supply cool outdoor air to indoors. so it can save energy.



\* This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only)  
\*\* Energy saving ratio Can vary with condition.  
\*\*\* Available only with Standard III

• Test Condition  
- Office (49,000 ft<sup>2</sup> / Occupancy : 30 / Area : London, UK  
- ERV (1 000 CMH) + MULTI V 4 (33.6kW) Unit Combination  
- Other conditions are subject to BREEAM.  
(Building Research Establishment's Environmental Assessment Method)

LZ-H050GBA4 / LZ-H100GBA4 / LZ-H150GBA4 / LZ-H200GBA4



Model			LZ-H050GBA4	LZ-H100GBA4	LZ-H150GBA4	LZ-H200GBA4	
Nominal Capacity		CMH (CFM)	500 (294)				
Power Supply		Ø, V, Hz	-1 1, 220 - 240, 50 - 60				
ERV mode	Step	-	SUPER-HIGH / HIGH / LOW				
	Current	SH / H / L	Amps	1.65 / 1.56 / 0.80	2.92 / 2.38 / 1.40	4.26 / 3.50 / 2.00	5.92 / 4.76 / 2.80
	Power Input	SH / H / L	W	247 / 230 / 95	463 / 370 / 208	660 / 530 / 290	926 / 740 / 420
	Air Flow	SH / H / L	CMH (CFM)	500 / 500 / 320 (294 / 294 / 188)	1,000 / 1,000 / 800 (589 / 589 / 471)	1,500 / 1,500 / 1,200 (883 / 883 / 706)	2,000 / 2,000 / 1,600 (1,177 / 1,177 / 942)
	External Static Pressure	SH / H / L	Pa (inWTR)	150 / 100 / 50 (0.60 / 0.40 / 0.20)	160 / 100 / 50 (0.64 / 0.40 / 0.20)	160 / 100 / 50 (0.64 / 0.40 / 0.20)	160 / 100 / 50 (0.64 / 0.40 / 0.20)
	Temperature Exchange Efficiency	SH / H / L	%	79 / 79 / 82	80 / 80 / 81	82 / 82 / 83	80 / 80 / 81
	Energy Label	A+ to G Scale		B	A		
ERV mode	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	75 / 75 / 78	71 / 71 / 73	73 / 73 / 76	71 / 71 / 73
		Cooling (SH / H / L)	%	68 / 68 / 75	64 / 64 / 67	66 / 66 / 70	64 / 64 / 67
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB(A)	37 / 36 / 28	40 / 37 / 33	43 / 39 / 35	43 / 40 / 36
Bypass mode	Step	-	SUPER-HIGH / HIGH / LOW				
	Current	SH / H / L	Amps	1.65 / 1.56 / 0.80	2.92 / 2.38 / 1.40	4.26 / 3.50 / 2.00	5.92 / 4.76 / 2.80
	Power Input	SH / H / L	W	247 / 230 / 95	463 / 370 / 208	660 / 530 / 290	926 / 740 / 420
	Air Flow	SH / H / L	CMH (CFM)	500 / 500 / 320 (294 / 294 / 124)	1,000 / 1,000 / 800 (589 / 589 / 471)	1,500 / 1,500 / 1,200 (883 / 883 / 706)	2,000 / 2,000 / 1,600 (1,177 / 1,177 / 942)
	External Static Pressure	SH / H / L	Pa (inWTR)	150 / 100 / 50 (0.60 / 0.40 / 0.20)	160 / 100 / 50 (0.64 / 0.40 / 0.20)	160 / 100 / 50 (0.64 / 0.40 / 0.20)	160 / 100 / 50 (0.64 / 0.40 / 0.20)
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB(A)	37 / 36 / 28	41 / 38 / 34	44 / 40 / 36	44 / 41 / 37
	Heat Exchanger	Type	-	Air to Air cross flow heat exchange			
Net Weight	kg		44	70	158		
Dimension	W x H x D	mm	1,014 x 273 x 988	1,101 x 405 x 1,230	1,353 x 815 x 1,230		
Duct work*	Qty	EA	4		4 + 2		
	Size (Ø)	mm	Ø200	Ø250	Ø250 + Ø350		
Supply Air Fan	Qty	EA	1		2		
	Type	-	Direct-Drive (Sirocco Fan)				
Exhaust Air Fan	Qty	EA	1		2		
	Type	-	Direct-Drive (Sirocco Fan)				
Filters (Default)	Qty	EA	2		4		
	Type	-	Cleanable fibrous fleeces				
	Size (W x H x D)	mm	855 x 6 x 230	1,148 x 6 x 245	1,148 x 6 x 245		
Filters (Optional)	Model	-	AHFT050H0		AHFT100H1		
	Qty	EA	2		4		
	Type	-	F7		F7		
Dry Contact	Size (W x H x D)	mm	425 x 194 x 25	520 x 192 x 25	520 x 192 x 25		
			PDRYCB000				

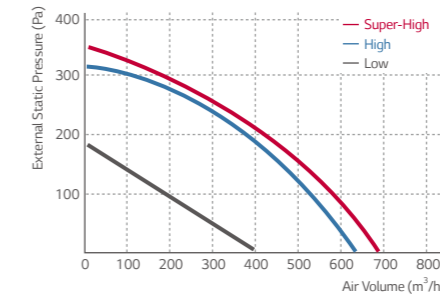
- Note : 1. ERV mode : Total Heat Recovery Ventilation mode  
 2. \* : Refer to dimensional drawings.  
 3. Noise level : - The operating conditions are assumed to be standard  
 - Sound measured at 1.5m below the center the body.  
 - Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.  
 - The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.  
 4. Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH  
 5. Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH  
 6. Temperature Exchange efficiency is tested at heating condition.  
 7. F7 Filter is 2 pieces in 1 filter package

Premium	Standard III	Standard II	CO <sub>2</sub> Sensor
PREMTA000 PREMTA000A PREMTA000B	PREMTB100	PREMTB001	AHCS100H0 (Internal Type : Default)

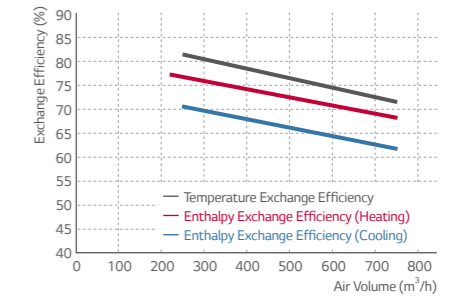
LZ-H050GBA5



Ventilation



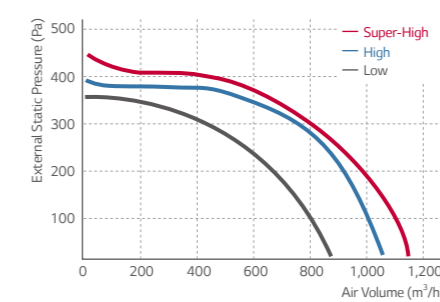
Efficiency



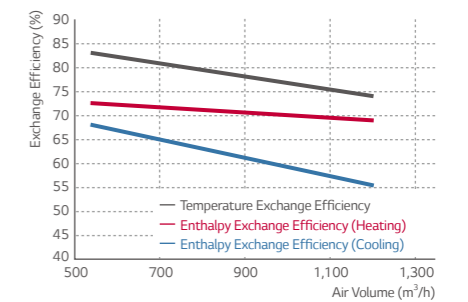
LZ-H100GBA5



Ventilation



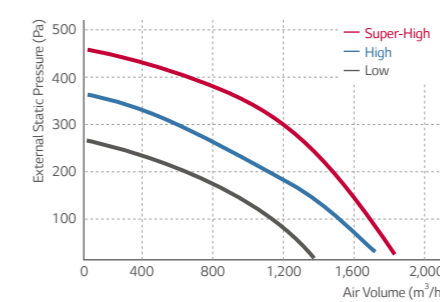
Efficiency



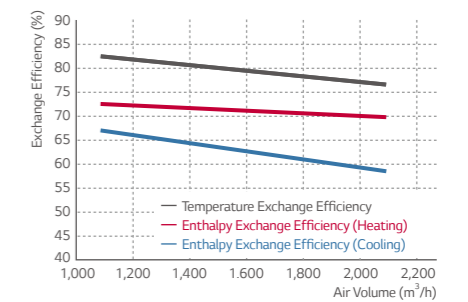
LZ-H150GBA5



Ventilation



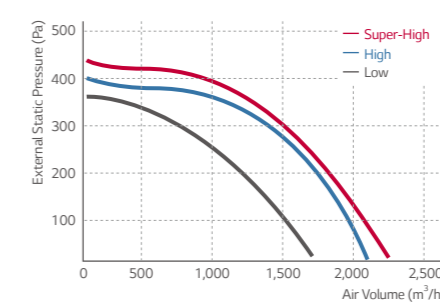
Efficiency



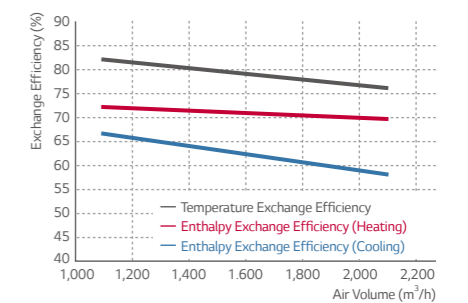
LZ-H200GBA5



Ventilation



Efficiency





Find out more

[lg.com/au/commercial-air-conditioning](http://lg.com/au/commercial-air-conditioning)

October 2020