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Vitalize with Good Air

In today's modern world, optimal living often comes at the expense of causing harm to the environment. Yet our health and well being are two values that should never be compromised.

LG remains committed to providing reliable and energy-efficient air conditioning solutions for both your family and business so that you can live better without worrying about hurting Mother Nature.

Thanks to our innovative technology, our air conditioners are safe to use for your home and deliver cost-effective solutions for your office environment.

At LG we pride ourselves in protecting the planet. refrigerants and components to ensure our products keep the earth green for generations to come.

Comfortable living in a sustainable world that is at the heart of every LG product.





Enjoy Clean, Quiet, and Comfortable

Air Conditioning with LG



Outdoor Unit

MULTI V... ...

Heat Pump

MULTI V...

Heat Recovery

MULTI V...

MINI

MULTI V...

SPACE

MULTI V...

WATER ...

Heat Pump

MULTI V...

WATER ...

WAT

ARTCOOL
Libero
Wall mounted
Console
Ceiling Cassette
Ceiling Concealed Duc
Fresh Air Intake Unit
Ceiling & Floor
Ceiling Suspended

70 eco V (Ventilation system)

Energy Recovery Ventilator

Energy Recovery Ventilator with DX Coil

8 V-net & Accessory
Remote Controller
Central Controller
Accessory



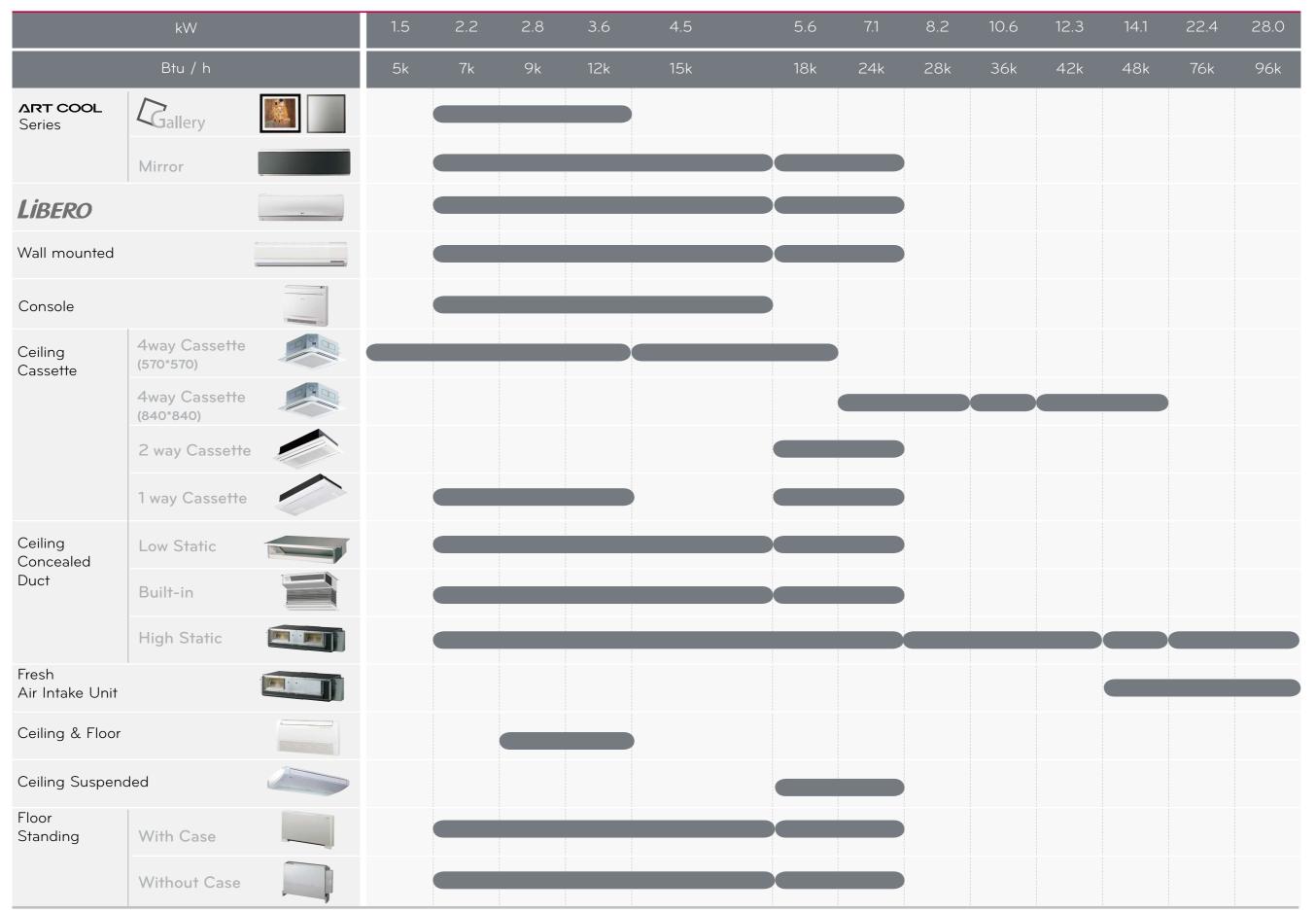


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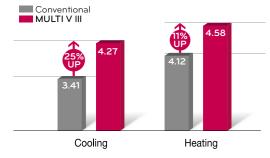


Energy Saving & Environment

High cooling and heating COP

- High efficiency BLDC V-scroll inverter compressor
- High efficiency BLDC inverter fan motor
- High air volume fan
- Optimal heat exchanger distribution

COP Comparison (based on 8Hp)



 $**Coefficient of Performance (COP) = \frac{Cooling / Heating}{Energy consumption}$

Therefore, higher COP of a product makes its cooling and heating capability higher and energy consumption lower

Maximum single unit capacity of 20 HP

MULTI V III offers bigger capacity of 20 HP for a single unit. Two basic modules, One Fan (up to 12 HP) and Two Fan (up to 20 HP), can be combined freely. Since one outdoor unit is enough to heat and cool a large area, the design of the MULTI V III is simple and installation costs are kept to a minimum.

20HP Single Unit!!



Technical innovation for high COP

As MULTI V III has high efficiency parts, advanced interver control technology and optimal cycle control technology, the system's unified performance has been improved. Based on these advanced technologies, the product provides customers with value through high efficiency and energy savings.



1 V-Scroll (LG BLDC inverter compressor)

Improved the energy efficiency by 11%, compared with the AC inverter compressor, by using the high efficiency LG BLDC inverter compressor.

2 Sine wave inverter control

Improved the efficiency of the compressor motor by using the sine wave DC inverter control technology.

3 Cyclone sub-cooling circuit

Improved the cooling capability by using a cyclone subcooling circuit.

4 Newly designed propeller fan

Achieved optimal heat exchange by using high air volume and low noise fan.

6 LG BLDC inverter fan motor

Improved efficiency by using high efficiency BLDC inverter motor, compared with the AC motor.

6 Uniform distributor for the heat exchanger

Improved heat exchange performance and efficiency by reducing greatly the heat exchanger's temperature deviation from 5°C to 1°C by applying an optimal distributor design to the heat exchanger.

7 Wide louver fins for the heat exchanger

Improved efficiency by using wide louver fins with an increased heating area.

8 HiPOR™ (High Pressure Oil Return)

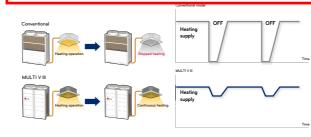
Improved the system COP by 5%

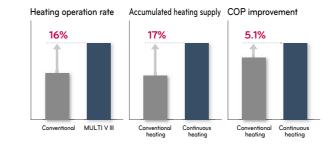
3. Put a star mark and a condition which is 'Continuous heating operation works only over 0 Celsius.'

Convenience and Amfort

Continuous heating operation

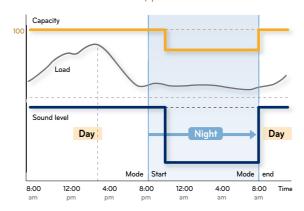
Continuous heating operation is possible with this product. Usually, when heating is being operated, freezing occurs in an outdoor unit heat exchanger. In such a situation, the usual way to solve this is to stop the indoor units and perform the defrost operation on the heat exchanger. However, since MULTI V III uses the split defrost technology it can operate heating continuously without stopping any indoor units, improving heating efficiency and always maintaining a warm indoor environment.





Night silent operation

By using, fan control technology and the real-time outdoor temperature detection technology, the product is equipped with the night low-noise operation function. 9 steps of low-noise operation are possible to provide more quiet operation during the night. More detailed information, please refer to the PDB

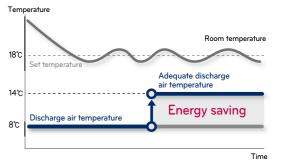


Real-time smart operation

Real-time power saving operation

In situations where the heating/cooling load difference is large, if performance of one side is high enough, performance of the other side can be overloaded. To control these situations, the product uses the real-time power saving operation algorithm, which enables the product to automatically decide on the operation status for the indoor units and automatically control them to maintain an optimal operation level and reduce power consumption.

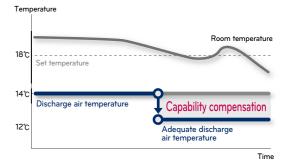
Real-time power saving operation control



Capability compensation operation

During the heating or cooling operation, the product automatically decides the operation status and performs the capability compensation operation on indoor units if required. For example, if the refrigerant line that connects the indoor and outdoor units has been extended or the indoor heating or cooling load has increased and thus the capabilities of indoor units are not enough to accomplish the cooling or heating successfully, the product automatically performs the capability compensation operation on the indoor units to make them operate at an optimal level.

Capability compensation operation

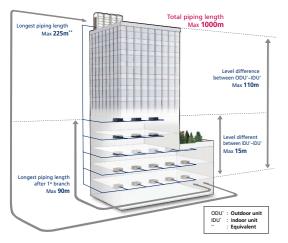




Wide & free HVAC design

Extended piping length and elevation

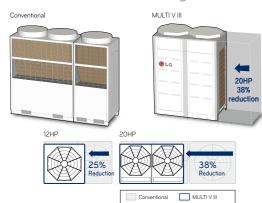
Because of the product's use of inverter control technology and sub-cooling control circuit technology, it is possible to design a system with longer piping length and world-class elevation difference. With this product, since a cooling and heating system can be designed more flexibly in a high-rise building or complex facilities building, the designer's working time is reduced, thus allowing a more efficient design.



Total piping length	1000m
Actual longest piping length-	200m
(Equivalent)	(225m)
Longest piping length after 1st branch	40m
(Conditional application)	(90m)
Level difference between ODU~IDU	110m
Level difference between IDU~IDU	15m
Level difference between ODU~ODU	5m

Space utilization by smaller size

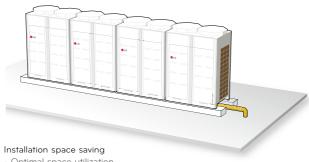
The product size is reduced by up to 38% compared to the conventional products, reducing the required installation space greatly. This gives you more free space and thus allows for easier HVAC design.



Maximum combination capacity of 80 HP with a single pipe

A combination of up to 80 HP can be made using 20 HP units. This makes it possible to design a HVAC system that fits into an extensive space. The usual major problems in design, such as installation space for outdoor units, pipe shaft space and piping line, are no longer an issue.

Outdoor unit combination of up to 80 HP



- Optimal space utilization

- Cooling and heating for an extensive space
- Installation cost savings

When designing a HVAC system with a total capacity of 400 HP, our 80 HP MULTI V III combination give you the following benefits, compared with conventional 40 HP combination models

- Reduces the installation space by 50%
- Reduces the piping numbers by 50%
- Reduces the pipe shaft space by 30%
- · A large capacity design reduces the time spent on designing the HVAC system, and also reduces the construction costs

Comparison of outdoor unit installation space



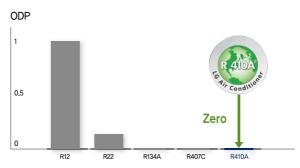
Wide & free HVAC design

Eco-friendly design

We produce not only high efficiency products that have excellent energy-saving capability, but we also develop eco-friendly products with green technology that protect the earth and the environment. With these products, we are leading the world in low carbon and green develop-

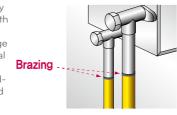
R410A Refrigerant

R410A is an eco-friendly refrigerant, with zero Ozone Depletion Potential (ODP). Since all the products use R410A refrigerant, they exhibit higher efficiency and energy-saving capability compared to products that use the conventional R22, thus contributing to global environmental protection.



No refrigerant leakage design and production

As the product is especially designed and produced with brazing to prevent refrigerant from leaking, no leakage will occur unless an external factor, such as an impact, occurs even when the product is used for an extended time.



Auto leakage detection

The product monitors the operation status data in real time and decides the appropriate amount of refrigerant and displays it. It also automatically notifies the user of any small refrigerant leakage.

Refrigerant recovery and reuse

When performing maintenance on the product, the refrigerant is not discharged to the air but can be saved by collecting it in an outdoor unit, a refrigerant pipe or an indoor unit. This increases environmental protection and reduces costs.



New designs for low noise operation

To provide our customers with high cooling and heating performance at a minimum size, and as well as a pleasant environment created with quiet operation, MULTI V III uses various low noise technologies. It has minimized operation noise by using a compressor with BLDC motors, low noise fan motors, new soundproof technology, outdoor fans, and a newly developed shroud shape.



Robust structure design



Low torque motor with ripple design Resonance frequency shift with optimal current angle control





Expanded bellmouth



Robust & S-shaped blade Increased pitch angle



Wide & free HVAC design

High static pressure fan

Since the product uses a more powerful high static pressure fan, the outdoor unit can be installed not only on the roof of a building but also inside the building by using an air duct. Because of the high static pressure fans and the BLDC fan motors, a sufficient air volume can be acquired for heat exchange and no re-circulation of the discharged air currents occurs. Depending on the building structure, you can reduce the piping length by installing the outdoor unit in the machine room.

(Maximum External Static Pressure : 8mmAg)

Various design and installation methods are available that fit into different building structures

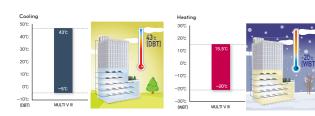


No stacking of high temperature air occurs due to powerful discharge of air currents even within a high-rise building



Wide operating range

The product has more extended continuous Fin layer Salt Spray Test for 15 Days cooling and heating operation range and operable range than the conventional products, enabling more extensive operation. It has extended the operation range by using more enhanced inverter compressor and control technology.



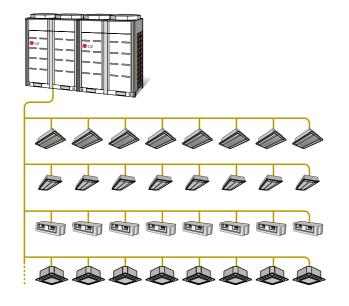
Flexible indoor unit combination

Since up to 64 indoor units can be connected and there are 13 types of 71 different indoor models that can be connected, a variety of designs tailored for individual construction usage can be made. Up to 200% efficiency can be achieved with different combinations.

Connectable Indoor Up to Max 200% Connectable Indoor unit Number Up to **64**

13 types, 71 models

* A combination with maximum 200% efficiency can be achieved only if the changes of the heating and cooling load and the product oper ation rate by time are considered



Combination ratio(50~200%)

No.of outdoor unit	Connection Capacity
Single unit	200%
Double unit	160%
Triple unit	130%
Over triple unit	130%

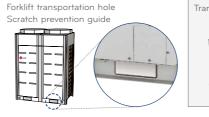
Easy installation & maintenance

Easy and safe transportation

With compact size and smaller weight, the product is designed to be easily transported by a regular elevator when installing it in a building where it is difficult to use a crane for installation. The product is designed for the installers to be able to move it safely and easily. In addition, bigger capacity of 20 HP per unit makes installation work easier by reducing the load of transportations and the installation time. Because the product has wire holes which can be used when it is transported by crane, you can ensure safe transportation. The product has the design that provides reduced installation time, enables convenient transportation and, above all, considers safe installation, and thus MULTI V III provides prod-

Fast and safe transportation by a forklift

There are forklift transportation holes at the bottom of the product, designed to make it easy for a forklift to load, transport and unload the product. The product also has scratch prevention guides that prevent a forklift from scratching the product during transportation.

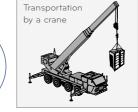


ransportation by a forklift

Safety design for crane use

Provides enhanced safety during transportation by a crane with the holes that prevent the product from falling and protect it from external impacts.





Compact product design allowing transportation by an elevator

Since the product size is reduced greatly compared to its performance, the product can be easily transported by an elevator.



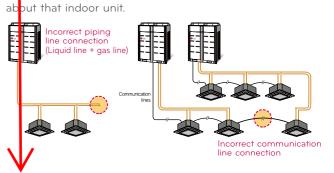
Free 4-way piping connection

The piping lines for the outdoor unit can be connected in 4 ways (front/left/right/bottom piping), allowing various custom construction depending on the individual site. If the piping lines are installed on the floor (bottom piping), the product looks neat as they are hidden from view and, in addition, the piping lines also do not interfere with gas/liquid lines, making the installation work safe and convenient. Piping line tray work is not necessary depending on the individual site, which reduces additional working hours, and also makes maintenance easier when the product is installed in the machine room.

When installing piping lines on the floor 4-way piping design (bottom piping)

Automatic detection for incorrect connections

In the conventional products, if an installation engineer has connected a liquid line to a gas line by mistake, you have to take the trouble to check the piping line connections for the indoor units installed over the ceiling. However, MULTI V III automatically checks the connections of piping lines and communication lines with its FDD function and notifies the user if there is any problern. Usually, installation becomes more and more complex as the number of connected indoor units increases. But, with the automatic detection function of this product, installation is made easier and, when an indoor unit has a connection problem, you can take action quickly because the automatic detection function will inform you

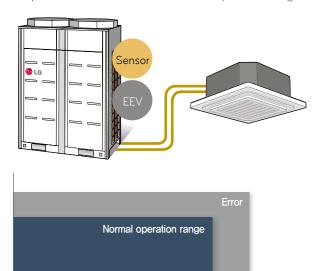




Easy installation & maintenance

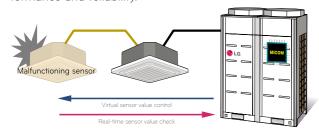
Real-time fault prediction function

With the conventional products, their performance and reliability would be degraded due to a slight fault with a sensor or the EEV. However, this product allows you to check the current status for the sensors and the EEV, which are the major components for system control, through a auto test run. Since the auto test run inspects the current status of the sensors and the EEV with of many operation conditions and alerts you of which one of them has a problem, you can take action quickly even if a problem occurs within the normal operation range.



New virtual sensor back-up function

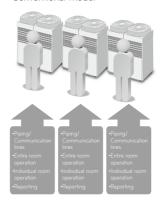
When an indoor unit sensor malfunctions with an abnormal value although it is detected as a faulty part, an outdoor unit can estimate what should be a normal sensor value and control the unit, which improves system performance and reliability.

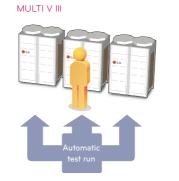


Intelligent simple test run

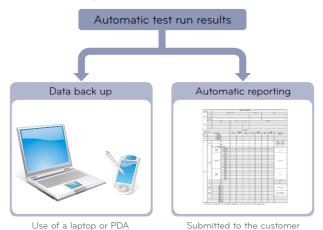
With the conventional products, a test run performed after installation had been finished requires a lot of time and labor force because the installation engineer has to manually perform each step of the test run. However, the development of the automatic test run mode allows this product to automatically perform a test run and automatically create a test run report, reducing the installation engineers' effort and time greatly. In addition, the product checks and immediately notifies the user of various installation and operation problems, such as a piping line/communication line problem and refrigerant shortage, securing product stability and reliability and allowing users to perform test runs more easily and quickly.

Conventional model





Automatic test run reduce test run time by more than 60% compared to the test run in an conventional product, and provides safe, reliable and convenient test run with various data backup functions. Since any general installation worker, not just a highly trained engineer, can perform a test run, the product also increases your installation competitiveness.



Easy installation & maintenance

Pump down and pump out function

When an outdoor or indoor unit malfunctions, it needs to be replaced served before servicing this function automatically collects its refrigerant in another outdoor or indoor unit running normally, making servicing very convenient and easy.

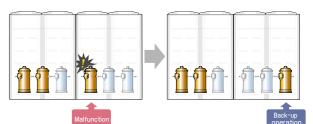
PUMP DOWN

PUMP OUT

When an indoor unit malfunctions, this function collects the refrigerant remaining in the piping line or that unit to an outdoor unit.

Automatic emergency back-up function

When a compressor malfunctions, the other compressor that is operating normally in an outdoor unit can run automatically as a substitute, minimizing any inconvenience that may occur in an emergency situation.



5.enables the pump to collect

ndoor unit malfunctions, the other ndoor units operate normally because each indoor unit

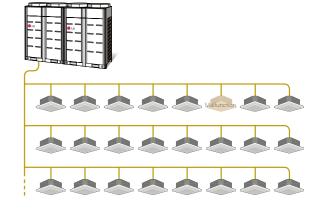
is operated individually by the Micom embedded in it.



Automatic refrigerant charging function

Calculates and automatically injects the optimal amount of refrigerant. Since the FDD algorithm calculates and automatically charges the correct amount of refrigerant without using an electronic scale, installation reliability is increased and product performance is guaranteed.





Powerful LGMV Program

This program allows you to monitor and control the operation status of the product. Since the program can be connected to either an outdoor unit or indoor unit, you can check the operation status of the product easily and conveniently any time and anywhere.







High technology

New & core technologies

1 New BLDC Inverter fan Motor

The product is equipped with highly efficient BLDC motor. The BLDC motor power consumption has been reduced and output has been improved, compared to the normal induction motor.

With strong torque with powerful Neodymium magnet inside the rotor, the BLDC motor provides large air volume and high static



2 New designed propeller fan (Super Aero fan)

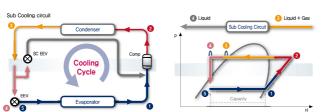
The Super Aero fan is a large air volume and high static pressure fan, and at the same time it produces low levels of noise



3 Cyclone Sub-Cooling Circuit

The sub-cooling circuit control acquires sub-cooled liquid refrigerant and thus improves the symptoms of oil recovery degradation and performance degradation that occur because a loss of system capability occurs throughout the piping lines. The sub-cooling circuit control is a core technology that enables the product to implement the world's longest piping length and elevation difference technology.

* Sub-cooling circuit control: Extracts part of the refrigerant of the SC circuit equipped in the liquid line exit of an outdoor unit and expands that extracted refrigerant using the SC EEV to make low temperature refrigerant, and then performs heat exchange in the system using that low temperature to increase the sub-cooling



4 V-scroll (LG BLDC inverter compressor)

We have developed a new compressor with better performance, higher efficiency, and a more enhanced reliability than the conventional compressors.

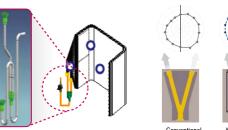
For the motor, which is the core of the compressor, the product uses a BLDC motor. The BLDC motor is a highly efficient motor, where strong ND magnetism inside the rotor produces magnetic torque and the metal part of the rotor produces reluctance torque to generate strong rotational force. Efficiency is improved because it has no slip loss, which always occurs in the normal induction motor, and noise is also reduced due to its low torque ripple design.

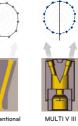
In addition, because the LG BLDC inverter compressor has the back pressure structure in which the interior of the compressor is maintained at a high pressure, the compression efficiency for refrigerant is improved. The compressor is also a high pressure type that makes oil lubrication smoother. Compared to the conventional models, the LG BLDC inverter compressor has more improved performance and reliability.

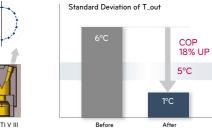
It is the most suitable scroll inverter compressor for the VRF system and acts as the core to MULTI V III its outstanding performance and high reliability.

5 New optimized refrigerant distributor

With the new optimal distributor design applied to the heat exchanger, the product distributes refrigerant to the heat exchanger uniformly so that its entire area can be used efficiently. As a result, both of heat exchange efficiency and system performance are improved.

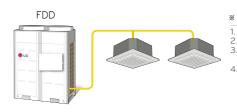






6 FDD (Fault Detection & Diagnosis)

Just like a comprehensive automotive diagnostic system, the MULTI V III is also equipped with a comprehensive diagnostic system that carries out automatic test run, refrigerant amount check, and real-time inspection and back-up operation for parts and sensors, maximizing reliability of

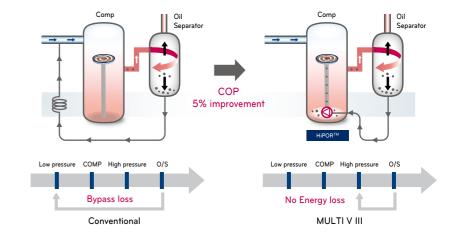


- * New & Improved function
- 1. Automatic test run
- . Refrigerant amount check . Real-time diagnosis
- (refrigerant and parts) . Real-time back-up (compressor and sensors

self-diagnostic system

7 New oil management technology (HiPOR™)

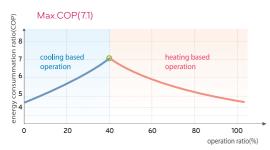
 $\mathsf{HiPOR}^{\mathsf{TM}}$ is a new technology that maximizes the reliability and efficiency of compressor by reducing pressure loss through direct forwarding of refrigerant and oil to a higher pressure side using the pump installed inside the compressor.



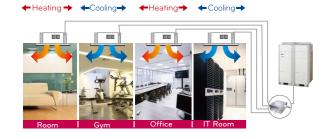
MULTI V. III Heat Recovery

Heating & Cooling Synchronous Operation

- High COP up to 7.1
- When, cooling(40%) + heating(60%)
- Energy consumption can be decreased by 30%



- * Outdoor temperature : 7°C DB / 6°C WB
- * Indoor temperature : 20°C DB / 15°C WB



Simultaneous Operations of Outdoor Units

Outdoor units' Heat exchanger operated for cooling and Heating synchronously.

- Linear Loading Response
- Increased Efficiency with Simultaneous Operations
- Minimized Switch Mode(continuous cooling and heating)

Conventional

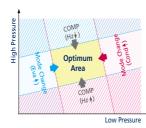


ODU: Cond. + Eva. Synchronously

AMC (Advanced Mode Change)

AMC control provides an optimal cycle operation under

Through this mode, System Cycles can be more stable and maintain comfort for the customers



Long Piping Length

Total piping length

Actual longest pipe length

Longest piping length after 1st branch

Level difference between ODU~IDU

Level difference between IDU~IDU

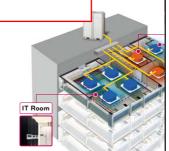
Level difference between ODU~ODU

HR Unit ~ Neighboring HR Unit

Level difference between HR unit

Optimal cycle in 6. The start point witching mode and the end point

are wrong.

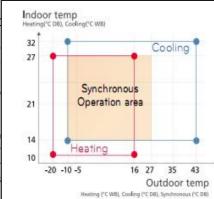


Convenient Free Zd

MULTI V III Heat recovery individual zones for the use •Individual Control

- -Perfect individual control of
- •Zone Control
- -Max. of 8 indoor units can -Max. of 32 indoor units car
- Same opeational model ca

trol function i of Individual ng Design



This is correct.

High Efficiency Heat Recovery Unit

- t double spiral tube type S num o indoor units connectable
- Easy installation with auto piping detect function
- Access allowed to internal parts for SVC
- Double spiral tube heat exchanger



Flexible Connection of HR Unit

LG's heat recovery unit allows flexible connection both in series and in a row.

Total piping length 1000m

200m(250m*

110m

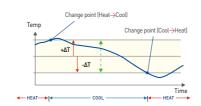
* Equivalent

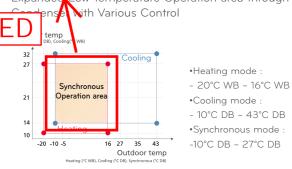
Conditional application



Auto Changeover

Auto changeover automatically change operating mode cool and heat, to maintain optimum room temperature, so no need of changing the mode during the change of season



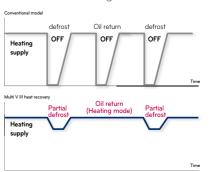


Non-stop heating operation

•Improved continuous heating operation

(In case of series Unit, alternative defrost per unit)

- -Integrated heating capacity: 17% up
- •Heating mode oil return
- -Continuous heating and oil return during heating mode



*Existing mode can be operated automatically, depending on the condition of application



MULTI V MINI can be easily installed in small offices and shops.

Designed for low-noise operation, it ensures a pleasant air conditioned environment.

Enhanced Comfort

- Night silent operation
- High COP

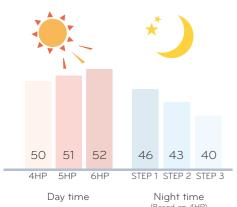
	1Ø, 2	20V	3Ø, 3	380V
Mini	Cooling	Heating	Cooling	Heating
4HP	3.7	3.9	4.3	4.3
5HP	4.0	4.1	4.0	4.1
6HP	3.7	3.9	3.7	3.9

• Longest Piping Length

Total piping length	300m
Longest piping length (Equivalent)	150m(175m)
Longest piping length after 1st branch	40m
Level difference between ODU~IDU	50m(40m*)
Level difference between IDU~IDU	15m
Level difference between ODU~ODU	5m

^{*}Outdoor unit is lower than indoor unit.

• Noise level (dBA)



Slim & Compact Size

Easy & efficient installation of MULTI V MINI will provide the best solution for small offices and shops.

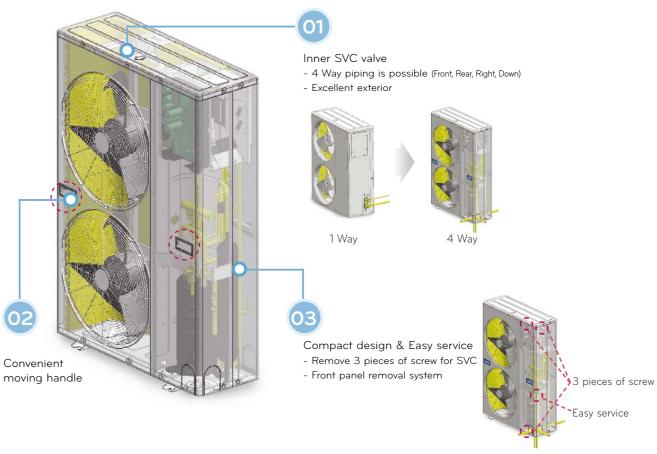
Foot print area



• Volume



Easy to Service



Max. 9 Indoor Units Connectable

Maximum 9 indoor units can be connected to one single outdoor unit with 130% indoor unit combination.

- 9 indoor units for 6HP
- 8 indoor units for 5HP
- 6 indoor units for 4HP



*Based on 6 HP model



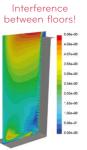
MULTI V SPACE II is ideal for refined and luxurious living spaces with Economic and aesthetic space design .

Front Suction & Front Discharge

- Right and left side air flow system
- High speed air discharging (7~8m/sec)
- No interference between each floors (Efficiency reduction due to hot air back flow)

Conventional





• MULTI V SPACE II



No efficiency reduction!

Quiet Operation

The noise and vibration are reduced by

- Front discharge
- Sealed structure of outdoor unit

The indoor noise level is maintained at $30~40\,dBA$, as quiet as being in the library

• MULTI V SPACE II







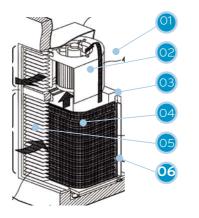
LG Patent For MULTI V SPACE II

All technologies in the MULTI V SPACE II which make it a distinctive, unique unit have been applied for patents domestically and internationally. and, some of them have already been registered.

- 01) Whole structure (8 items)
- O2 Air handler structrue (18 items)
- Separation of suction & discharge (6 items)
- 3-side heat exchange structure (3 items)
- 05 Louver structure /control (20 items)
- © Electrical part(2 items)

• LG patents : 57items





Fan RPM Control (E.S.P & Noise Control)

- Enhanced installation flexibility (Duct application)
- No need of high static pressure exhaust fan and air guide
- Keeping capacity and noise level as desired

Duct application



- E.S.P control

1 2 3 4 5 6 7 8 9 10 11 12 13 14	St
1 2 3 4 5 6 7 8 9 10 11 12 13 14	St
1 2 3 4 5 6 7 8 9 10 11 12 13 14	St
1 2 3 4 5 6 7 8 9 10 11 12 13 14	St

Step 1 : 4mmAq < ESP ≤ 6mmAq

Step 2 : 6mmAq < ESP ≤ 8mmAq

Step 3 : 8mmAq < ESP ≤ 10mmAq

Step 4 : 10mmAq < ESP ≤ 12mmAq

- Noise control



Low blowing noise : Max - 100 rpm

4-Step Modularized Design

- Modularized design of the outdoor unit provides simpler installation and maintenance.
- Outdoor unit can be installed according to overall building construction schedule.
- Louver is provided locally





*6HP (ARUN60LR2, ARUN60LL2) *8HP (ARUN80LR2, ARUN80LL2)

LG Air Conditioners 2011 26 /2

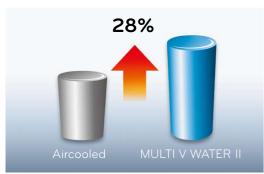


MULTI V WATER II represents both effective and safe system with great performance regardless of external conditions, such as ambient temperature building wind effects in high rising building.

Economic Water System

There is no efficiency reduction from environmental condition such as a contrary wind, building wind, harsh outside temperature. This is a good solution for high-rise building.

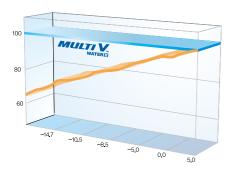
COP



• High efficiency system regardless of external conditions

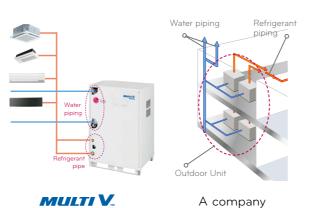


• Optimized control by variable load



Easy Installation

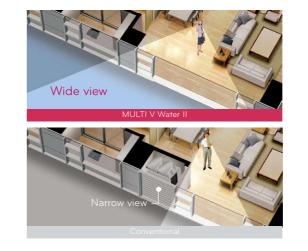
- Light weight & compact size
- Installation space is reduced up to 60%
- Easy piping work
- Refrigerant & water pipe connection at front side





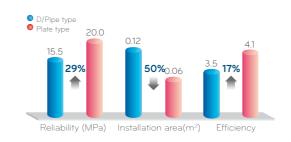
Wide View

The reduced installation space required for the outdoor unit has resulted in a more usable space.



High Efficiency & Reliability

Comparison between plate type and double pipe type



Compressor back up operation

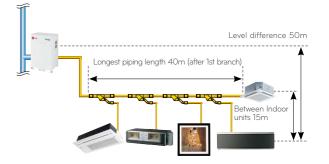
- 1. One compressor failure
- 2. Error code is displayed
- 3. Back-up by field setting (Dip S/W)
- 4. Continuous operation



Longest Piping Length

Total piping length	300m
Longest piping length (Equivalent)	150m(175m)
Longest piping length after 1st branching	40m
Level difference between ODU~IDU	50m(40m*)
Level difference between IDU~IDU	15m

* Outdoor unit is lower than indoor unit.

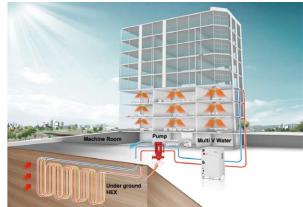


MULTI V Water II System for Geothermal application

It uses under ground heat source as renewable energy for cooling and heating of building. Heat source can be like a soil, ground water, lake, river, etc. Water or antifreeze solution is circulated through closed loop HDPE (High Density Poly-Ethylene) pipes buried beneath the earth's surface. It is a high efficient eco-friendly MULTI-V system providing green energy solution.

-The working water temperature range is between -5°C ~ 45 °C. -Antifreeze should be applied for according to each application.

**This application should be consulted with local LG office









* Specifications

HP		8	10	12	14	16	18	20	
Model	Combination u		ARUN100LT3 ARUN100LT3	ARUN120LT3 ARUN120LT3					
Capacity	Cooling	:W 22.4	28.0	33.6	39.2	44.8	50.4	56.0	
	Heating	W 25.2	31.5	37.8	44.1	50.4	56.7	63.0	
Power	Cooling	W 5.25	7.00	8.90	9.50	11.00	12.80	15.00	
Input	Heating	W 5.50	7.25	9.00	9.70	11.50	13.50	15.50	
COP	Cooling	4.27	4.00	3.78	4.13	4.07	3.94	3.73	
	Heating	4.58	4.34	4.20	4.55	4.38	4.20	4.06	
Power Supply	Hz			3, 380~415, 50					
Dimensions(WxHxD)	ım	920×1,680×760		1,240×1,6		580×760			
Weight	Weight kg		24	0×1	260×1 315×1		325×1		
Color				Wa	ırm Gray, Morning G	Bray			
Noise level	dBA	±3 57		58		61	6	2	
Fan	Туре				Propeller fan				
	Air flow rate [CN	M] 180	19	90	2	10	240	250	
Compressor	Туре			Her	rmetically Sealed So	croll			
	Number of compresso	rs 1	1 2 3						
Heat Exchanger			Gold fin						
Refrigerant	Туре				R410A				
_	Charge	kg 5.0	6	.4	7.	.0	7.5	9	
	Control		EEV						
Oil	Туре				FVC68D(PVE)				
	Charge	cc 3,500	5,2	200	5,5	600	7,2	200	
Piping	Liquid Pipes mm(in	ch) Ø9.5	n) Ø9.52(3/8) Ø12.7(1/2) Ø15.88(5/8)				8(5/8)		
Connections	Gas Pipes mm(in	ch) Ø19.05(3/4)	Ø22.2(7/8)			Ø28.58(1 1/8)			
Number of outdoor unit					1				
Number of maximum con	nectable indoor units	13(20)	16(25)	20(30)	23(35)	26(40)	29(45)	32(44)	
Ratio of the connectable i	ndoor units		50~200%						
Longest piping length / Lo	evel difference **		200m/110m						

		22		26			
Model	Combination unit	ARUN220LT3 ARUN120LT3	ARUN240LT3 ARUN120LT3	ARUN260LT3 ARUN140LT3			
	independent unit	ARUN100LT3	ARUN120LT3 ARUN120LT3	ARUN120LT3			
Capacity	Cooling kW	61.6	67.2	72.8			
	Heating kW	69.3	75.6	81.9			
Power	Cooling kW	15.90	17.80	18.40			
Input	Heating kW	16.25	18.00	18.70			
COP	Cooling	3.87	3.78	3.96			
	Heating	4.26	4.20	4.38			
Power Supply	Ø, V, Hz		3, 380~415, 50				
Dimensions(WxHxD)	mm	(920×1,68	(920×1,680×760)×2				
Weight	kg	240) × 2	240 × 1 + 260 × 1			
Color		Warm Gray, Morning Gray					
Noise level	dBA±3		61				
Fan	Type		Propeller fan				
	Air flow rate [CMM]	380		400			
Compressor	Type		Hermetically Sealed Scroll				
	Number of compressors		4				
Heat Exchanger			Gold fin				
Refrigerant	Type		R410A				
	Charge kg	12	2.8	13.4			
	Control		EEV				
Oil	Type		FVC68D(PVE)				
	Charge cc	10,400		10,700			
Piping	Liquid Pipes mm(inch)	Ø15.8	8(5/8)	Ø19.05(3/4)			
Connections	Gas Pipes mm(inch)	Ø28.58(1 1/8)	Ø.	534.9(1 3/8)			
Number of outdoor uni	t		2				
Number of maximum o	onnectable indoor units *	35(44)	39(48)	42(52)			
Ratio of the connectab	le indoor units	50~160%					
Longest piping length	Level difference **	200m/110m					



		28	30	32	34			40
Model	Combination unit	ARUN280LT3	ARUN300LT3	ARUN320LT3	ARUN340LT3	ARUN360LT3	ARUN380LT3	ARUN400LT3
	Independent unit	ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN180LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3
	·	ARUN120LT3	ARUN140LT3	ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN180LT3	ARUN200LT3
Capacity	Cooling kW	78.4	84.0	89.6	95.2	100.8	106.4	112.0
Capacity	Heating kW	88.2	94.5	100.8	107.1	113.4	119.7	126.0
Power	Cooling kW	19.90	20.50	22.00	23.80	26.00	27.80	30.00
	Heating kW	20.50	21.20	23.00	25.00	27.00	29.00	31.00
Input	Cooling	3.94	4.10	4.07	4.00	3.88	3.83	3.73
COP	Heating	4.30	4.10	4.07	4.28	4.20	4.13	4.06
Power Supply	Ø, V, Hz	4.30	4.40	4.30	3. 380~415. 50	4.20	4.13	1.00
Dimensions(WxHxD)	, v, п2 mm	(920×1,680×760)×1 +(1,240×1,680×760)×1			(1,240×1,6)	30×760)×2		
Weight	kg	240×1+260×1	260) × 2	260×1+315×1	260×1+325×1	315×1+325×1	325 × 2
Color	3			Wa	rm Gray, Morning C	bray		
Noise level	dBA±3	61	62.8	63	3.5		65	
Fan	Туре	Propeller fan						
	Air flow rate [CMM]	400	42	20	450	460	490	500
Compressor	Туре	Hermetically Sealed Scroll						
	Number of compressors	4 5 6						6
Heat Exchanger					Gold fin			
Refrigerant	Туре				R410A			
	Charge kg	13.4	14	1.0	14.5	16.0	16.5	18.0
	Control				EEV			
Oil	Туре				FVC68D(PVE)			
	Charge cc	10,700	11,0	000	12,7	700	14,4	400
Piping	Liquid Pipes mm(inch)	Ø19.05(3/4)						
Connections	Gas Pipes mm(inch)	Ø34.9(1 3/8)					Ø41.3(1 5/8)	
Number of outdoor unit					2			
Number of maximum connectable indoor units *		45(56)	49(60)	52(64)	55(64)	58(64)	61(64)	64
Ratio of the connectab	le indoor units	50~160%						
Longest piping length /	Level difference **	200m/110m						

			42	44	46	48	50			
Model		ination unit endent unit	ARUN420LT3 ARUN160LT3 ARUN140LT3 ARUN120LT3	ARUN440LT3 ARUN160LT3 ARUN160LT3 ARUN120LT3	ARUN460LT3 ARUN160LT3 ARUN160LT3 ARUN140LT3	ARUN480LT3 ARUN160LT3 ARUN160LT3 ARUN160LT3	ARUN500LT3 ARUN180LT3 ARUN160LT3 ARUN160LT3			
<u> </u>	0 1:	1347	1177	122.2	120.0	12.4.4	1400			
Capacity	Cooling	kW	117.6	123.2	128.8	134.4	140.0			
	Heating	kW	132.3	139.0	144.9	151.2	157.5			
Power	Cooling	kW	29.40	30.90	31.50	33.00	34.80			
Input	Heating	kW	30.20	32.00	32.70	34.50	36.50			
COP	Cooling		4.00	3.99	4.09	4.07	4.02			
	Heating		4.38	4.33	4.43	4.38	4.32			
Power Supply		Ø, V, Hz		3, 380~415, 50						
Dimensions(WxHxD	mensions(WxHxD) mm			(920×1,680×760)+(1,240×1,680×760)×2		(1,240×1,680×760)×3				
Weight		kg	240×1 +	- 260×2	260 × 3 260×					
Color			Warm Gray, Morning Gray							
Noise level		dBA±3	62.8	64	64	1.5	65.4			
Fan	Туре									
	Air flow rate	[CMM]	61	10	63	30	660			
Compressor	Туре				Hermetically Sealed Scroll					
	Number of co	mpressors		(6		7			
Heat Exchanger		-	Gold fin							
Refrigerant	Туре			R410A						
-	Charge	kg	20).4	21.0		21.5			
	Control				EEV					
Oil	Туре				FVC68D(PVE)					
	Charge	сс	16,2	200	16.500		18,200			
Piping	Liquid Pipes	mm(inch)			Ø19.05(3/4)					
Connections	Gas Pipes	mm(inch)			Ø41.3(1 5/8)					
Number of outdoor		,,	3							
Number of maximum connectable indoor units *			64							
Ratio of the connec		2. 20	50~130%							
	th / Level difference	o **	200m/110m							

* Specifications

			52	54	56	58	60		
Model	Combination unit		ARUN520LT3 ARUN200LT3 ARUN160LT3	ARUN540LT3 ARUN200LT3 ARUN200LT3	ARUN560LT3 ARUN200LT3 ARUN200LT3	ARUN580LT3 ARUN200LT3 ARUN200LT3	ARUN600LT3 ARUN200LT3 ARUN200LT3		
			ARUN160LT3	ARUN140LT3	ARUN160LT3	ARUN180LT3	ARUN200LT3		
Capacity	Cooling	kW	145.6	151.2	156.8	162.4	168.0		
	Heating	kW	163.8	170.1	176.4	182.7	189.0		
Power	Cooling	kW	37.00	39.50	41.00	42.80	45.00		
Input	Heating	kW	38.50	40.70	42.50	44.50	46.50		
COP	Cooling		3.94	3.83	3.82	3.79	3.73		
	Heating		4.25	4.18	4.15	4.11	4.06		
Power Supply Ø, V, Hz			3, 380~415, 50						
Dimensions(WxHxD) mm			(1,240×1,680×760)×3						
Weight		kg	260×2 + 325×1 260×1 + 325×2 315×1 + 325×2				325 × 3		
Color			Warm Gray, Morning Gray						
Noise level	dB	A±3	65	5.8	66.5	66	5.8		
Fan	Туре								
	Air flow rate [CI	MM]	670	7	10	740	750		
Compressor	Туре		Hermetically Sealed Scroll						
	Number of compress	ors	7	3	(9			
Heat Exchanger			Gold fin						
Refrigerant	Туре				R410A				
	Charge	kg	23.0	25	5.0	25.5	27.0		
	Control				EEV				
Oil	Туре		FVC68D(PVE)						
	Charge	сс	18,200	19,9	21,600				
Piping	Liquid Pipes mm(i	nch)	Ø19.05(3/4)						
Connections	Gas Pipes mm(i	nch)							
Number of outdoor uni	t				3				
Number of maximum c	onnectable indoor units	s *	64						
Ratio of the connectab	le indoor units				50~130%				
Longest piping length /	Level difference **		200m/110m						

			62	64	66	68	70	
Model		nation unit	ARUN620LT3 ARUN160LT3	ARUN640LT3 ARUN160LT3	ARUN660LT3 ARUN180LT3	ARUN680LT3 ARUN180LT3	ARUN700LT3 ARUN200LT3	
			ARUN160LT3 ARUN160LT3	ARUN160LT3 ARUN160LT3	ARUN160LT3 ARUN160LT3	ARUN180LT3 ARUN160LT3	ARUN180LT3 ARUN160LT3	
			ARUN140LT3	ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN160LT3	
Capacity	Cooling	kW	173.6	179.2	184.8	190.4	196.0	
	Heating	kW	195.3	201.6	207.9	214.2	220.5	
Power	Cooling	kW	42.50	44.00	45.80	47.60	49.80	
Input	Heating	kW	44.20	46.00	48.00	50.00	52.00	
COP	Cooling		4.08	4.07	4.03	4.00	3.94	
	Heating		4.42	4.38	4.33	4.28	4.24	
Power Supply		Ø, V, Hz						
Dimensions(WxHxD)		mm			(1,240×1,680×760)×4			
Weight		kg	g 260×4 260×3 + 315×1 260×2 + 315×2		260×2 + 315×2	260×2+315×1+325×1		
Color					Warm Gray, Morning Gray			
Noise level		dBA±3	66.4	67	67.3	67.5		
Fan	Туре				Propeller fan			
	Air flow rate	[CMM]	84	40	870	900	910	
Compressor	Туре				Hermetically Sealed Scroll			
	Number of co	mpressors	3	3	9		10	
Heat Exchanger					Gold fin			
Refrigerant	Туре				R410A			
	Charge	kg	28	3.0	28.5	29.0	30.5	
	Control				EEV			
Oil	Туре				FVC68D(PVE)			
	Charge	СС	22,0	000	23,700	25	,400	
Piping	Liquid Pipes	mm(inch)			Ø22.2(7/8)			
Connections	Gas Pipes	mm(inch)	Ø44.5	(1 3/4)		Ø53.98(2)		
Number of outdoor un	it				4			
Number of maximum of	connectable indo	or units *			64			
Ratio of the connectab	le indoor units	1			50~130%			
Longest piping length		**	200m/110m					

			72			78	80
Model	Combination unit		ARUN720LT3	ARUN740LT3	ARUN760LT3	ARUN780LT3	ARUN800LT3
	Indepe	ndent unit	ARUN200LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3
			ARUN200LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3
			ARUN160LT3	ARUN180LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3
			ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN180LT3	ARUN200LT3
Capacity	Cooling	kW	201.6	207.2	212.8 218.4		224.0
	Heating	kW	226.6	233.1	239.4	245.7	252.0
Power	Cooling	kW	52.00	53.80	56.00	57.80	60.00
nput	Heating	kW	54.00	56.00	58.00	60.00	62.00
COP	Cooling		3.88	3.85	3.80	3.78	3.73
	Heating		4.20	4.16	4.13	4.10	4.06
Power Supply		Ø, V, Hz			3, 380~415, 50		
Dimensions(WxHxD)		mm	mm (1,240×1,680×760)×4				
Weight		kg	260×2 + 325×2	260×1+315×1+325×2	260×1 + 325×3	315×1 + 325×3	325 × 4
Color			Warm Gray, Morning Gray				:
Noise level		dBA±3	3A+3 67.5 67.8		.8	6	58
Fan	Туре			<u>:</u>	Propeller fan		
	Air flow rate	[CMM]	920	950	960	990	1,000
Compressor	Туре						
	Number of con	nnressors	10	8.		1	2
Heat Exchanger	110111201 01 001						
Refrigerant	Туре			F2 0	10/2 1/9	٥١ 	
torrigoram	Charge	kg	32.0	- JJJ.7	8(2 1/8) ₅	36.0
	Control	- Ng		: -	Av		
Oil	Туре				FV(6) D PVE)		
O 11	Charge	cc	25.400	27.1	/ * *	28.	800
Piping		mm(inch)		-17	Ø22.2(7/8)	20,	
Connections	Gas Pipes	mm(inch)			Ø53.98(2)		
Number of outdoor un		mm(mcm)			Ø33.96(E)		
Number of outdoor un		r unite *			64		
Ratio of the connectab		runns			50~130%		
		**			200m/110m		
Longest piping length	/ Level difference				∠UUM/IIUM		

- * The number of () means the number of max. connectable indoor units, when the connected capacity of indoor units is in the table below.

** Conditional Application
To make 40-90m of pipe length after first branch refer to the part of "installation of outdoor units" in PDB

 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

- Capacities are net capacities
 Due to our policy of innovation some specifications may be changed without notification
 EEV: Electronic Expansion Valve

▲CAUTION

• A combination operation over 100% cause to reduce each indoor unit capacity

Combination ratio(50~200%)

No. of outdoor unit	Connection Capacity
Single unit	200%
Double unit	160%
Triple unit	130%
Over triple unit	130%

We can guarantee the operation only within 130% Combination.

If you want to connect more than 130% combination, please contact us and discuss the requirement like below.

1) If the operational capacity of indoor units exceed 130%, then all the indoor units operate under low air flow step mode.
2) Over 130%, capacity is same as capacity of 130%, Same remark is valid for power input.







* Specifications

HP		8	10	12	14	16	18	20	
Model	Combination unit	ARUB80LT3	ARUB100LT3	ARUB120LT3	ARUB140LT3	ARUB160LT3	ARUB180LT3	ARUB200LT3	
	Independent unit	ARUB80LT3	ARUB100LT3	ARUB120LT3	ARUB140LT3	ARUB160LT3	ARUB180LT3	ARUB200LT3	
Capacity	Cooling kW	22.4	28.0	33.6	39.2	44.8	50.4	56.0	
	Heating kW	25.2	31.5	37.8	44.1	50.4	56.7	63.0	
Power	Cooling kW	5.25	7.00	8.90	9.50	11.00	12.80	15.00	
Input	Heating kW	5.50	7.25	9.00	9.70	11.50	13.50	15.50	
COP	Cooling	4.27	4.00	3.78	4.13	4.07	3.94	3.73	
	Heating	4.58	4.34	4.20	4.55	4.38	4.20	4.06	
Power Supply	Ø, V, Hz				3, 380~415, 50				
Dimensions(WxH	lxD) mm		920×1,680×760 1,240×1,6			680×760			
Weight	kg		240 × 1		27	0×1	320×1	330×1	
Color				Wa	ırm Gray, Morning (Bray			
Noise level	dBA±3	57	57 58 61				6	2	
Fan	Туре				Propeller fan				
	Air flow rate [CMM]	180	19	90	2	10	240	250	
Compressor	Туре	HSS DC Scroll							
	Number of compressors			2				3	
Heat Exchanger					Gold fin				
Refrigerant	Туре				R410A				
	Charge kg		6.4		7.	.0	7.5	9	
	Control				EEV				
Oil	Туре				FVC68D(PVE)				
	Charge cc		5,200		5,5	000	7,2	200	
Piping	Liquid Pipes mm(inch)	Ø9.5	2(3/8)		Ø12.7(1/2)		Ø15.8	8(5/8)	
Connections	Low Pressure Gas Pipes mm(inch)	ch) Ø19.05(3/4) Ø22.2(7/8) Ø28.		Ø28.58(1 1/8)					
	High Pressure Gas Pipes mm(inch)) Ø15.88(5/8) Ø19.05(3/4) Ø22.2(7/8)				2(7/8)			
Number of outdo					. 1				
Number of maxin	num connectable indoor units *	13(20)	16(25)	20(30)	23(35)	26(40)	29(45)	32(50)	
Ratio of the conn	nectable indoor units				50~200%				
Longest piping le	ength / Level difference **				200m/110m				

HP		22	24	26			
Model	Combination unit	ARUB220LT3 ARUB120LT3 ARUB100LT3	ARUB240LT3 ARUB120LT3 ARUB120LT3	ARUB260LT3 ARUB140LT3 ARUB120LT3			
0 "	C 1:	414	672	72.8			
Capacity	Cooling kW	61.6	75.6	72.8 81.9			
	Heating kW						
Power	Cooling kW	15.90	17.80	18.40			
Input	Heating kW	16.25					
СОР	Cooling	3.87	3.78	3.96			
D 0 1	Heating	4.26	4.20	4.38			
Power Supply	Ø, V, Hz		3, 380~415, 50 (920×1,680×760)×2 (920×1,680×760)×1+(1,240×1,680				
Dimensions(WxH			(920×1,680×760)×2 240 × 2				
Weight	kg	24	0 × 2 Warm Gray, Morning Gray	240×1 + 270×1			
Color							
Noise level	dBA±3		61				
Fan	Туре		Propeller fan				
	Air flow rate [CMM]	380		400			
Compressor	Туре		HSS DC Scroll				
	Number of compressors		4				
Heat Exchanger			Gold fin				
Refrigerant	Туре		R410A				
	Charge kg	1	2.8	13.4			
	Control		EEV				
Oil	Туре		FVC68D(PVE)				
	Charge cc	10,400		10,700			
Piping	Liquid Pipes mm(inch)	Ø15.	88(5/8)	Ø19.05(3/4)			
Connections	Low Pressure Gas Pipes mm(inch)		Ø34.9(1 3/8)				
	High Pressure Gas Pipes mm(inch)		Ø28.58(1 1/8)				
Number of outdo			2				
	num connectable indoor units *	35(44)	39(48)	42(52)			
	ectable indoor units		50~160%				
Longest piping le	ngth / Level difference **		200m/110m				



HP .		28	30	32	34	36	38	40	
Model	Combination un Independent un	it ARUB160LT3	ARUB300LT3 ARUB160LT3 ARUB140LT3	ARUB320LT3 ARUB160LT3 ARUB160LT3	ARUB180LT3	ARUB200LT3	ARUB380LT3 ARUB200LT3 ARUB180LT3	ARUB200LT3	
Capacity	Cooling k\	V 78.4	84.0	89.6	95.2	100.8	106.4	112.0	
	Heating k\	V 88.2	94.5	100.8	107.1	113.4	119.7	126.0	
Power	Cooling k\	V 19.90	20.50	22.00	23.80	26.00	27.80	30.00	
Input	Heating k\	V 20.50	21.20	23.00	25.00	27.00	29.00	31.00	
COP	Cooling	3.94	4.10	4.07	4.00	3.88	3.83	3.73	
	Heating	4.30	4.46	4.38	4.28	4.20	4.13	4.06	
Power Supply	Ø, V, F	z	3, 380~415, 50						
Dimensions(WxH		(920×1,680×760)×1			(1,240×1,6	80×760)×2			
Weight	k	g 240×1+270×1	270) × 2	270×1+320×1	270×1+330×1	320×1+330×1	330 × 2	
Color		Warm Gray, Morning Gray							
Noise level	dBA±	3 61					65		
Fan	Туре				Propeller fan				
	Air flow rate [CMN	400	4.	20	450	460	490	500	
Compressor	Туре		HSS DC Scroll						
	Number of compressors		4			5 6			
Heat Exchanger	•				Gold fin				
Refrigerant	Туре				R410A	R410A			
	Charge k	g 13.4	14	1.0	14.5	16.0	16.5	18.0	
	Control				EEV				
Oil	Туре				FVC68D(PVE)				
	Charge	c 10,700	11,0	000	12,7	00	14,4	100	
Piping	Liquid Pipes mm(incl	n)			Ø19.05(3/4)				
Connections	Low Pressure Gas Pipes mm(incl)	Ø34.9	9(1 3/8)			Ø41.3(1 5/8)		
	High Pressure Gas Pipes mm(incl	n)		Ø28.58(1 1/8)			Ø34.9	(1 3/8)	
Number of outdo	or unit				2				
Number of maxin	num connectable indoor units *	45(56)	49(60)	52(64)	55(64)	58(64)	61(64)	64	
Ratio of the conn	ectable indoor units		50~160%						
Longest piping le	ngth / Level difference **				200m/110m				

IP		42	44	46	48	50				
Model	Combination unit		ARUB440LT3	ARUB460LT3	ARUB480LT3	ARUB500LT3				
	Independent unit		ARUB160LT3	ARUB160LT3	ARUB160LT3	ARUB180LT3				
		ARUB140LT3	ARUB160LT3	ARUB160LT3	ARUB160LT3	ARUB160LT3				
		ARUB120LT3	ARUB120LT3	ARUB140LT3	ARUB160LT3	ARUB160LT3				
Capacity	Cooling kW	1176	123.2	128.8	134.4	140.0				
Сараспу	Heating kW	-	139.0	144.9	151.2	157.5				
Power	Cooling kW		30.90	31.50	33.00	34.80				
Input	Heating kW	-	32.00	32.70	34.50	36.50				
COP	Cooling	4.00	32.00	4.09	4.07	402				
COF	Heating	4.38	4.33	4.43	4.38	4.32				
Power Supply	Ø, V, Hz		4.55	3. 380~415. 50	4.30	1.52				
Dimensions(WxHxD) mm			(920×1,680×760)×1+(1,240×1,680×760)×2 (1,240×1,680×760)×3							
Weight	ko		240 + 270 × 2	270) × 3	270 × 2 + 320 × 1				
Color			Warm Gray, Morning Gray							
Noise level	dBA±3	62.8	64	, , ,	4.5	65.4				
Fan	Туре			Propeller fan						
	Air flow rate [CMM]	6	10	6.	30	660				
Compressor	Туре		HSS DC Scroll							
	Number of compressors			6		7				
Heat Exchanger	•			Gold fin						
Refrigerant	Туре			R410A						
	Charge kg	20	0.4	2	21.5					
	Control			EEV						
Oil	Туре			FVC68D(PVE)						
	Charge co	16,	200	16,5	500	18,200				
Piping	Liquid Pipes mm(inch)			Ø19.05(3/4)						
Connections	Low Pressure Gas Pipes mm(inch)			Ø41.3(1 5/8)						
	High Pressure Gas Pipes mm(inch)			Ø34.9(1 3/8)						
Number of outdo	oor unit		3							
Number of maxi	mum connectable indoor units *			64						
Ratio of the conr	nectable indoor units			50~130%						
Longest piping le	ength / Level difference **			200m/110m		200m/110m				

Heat Recovery

* Specifications

HP		52	54	56	58	60		
Model	Combination unit Independent unit	ARUB520LT3 ARUB200LT3 ARUB160LT3 ARUB160LT3	ARUB540LT3 ARUB200LT3 ARUB200LT3 ARUB140LT3	ARUB560LT3 ARUB200LT3 ARUB200LT3 ARUB160LT3	ARUB580LT3 ARUB200LT3 ARUB200LT3 ARUB180LT3	ARUB200LT3 ARUB200LT3 ARUB200LT3 ARUB200LT3		
Capacity	Cooling kW	145.6	151.2	156.8	162.4	168.0		
Сараспу	Heating kW	163.8	170.1	176.4	182.7	189.0		
Power	Cooling kW	37.00	39.50	41.00	42.80	45.00		
Input	Heating kW	38.50	40.70	42.50	44.50	46.50		
COP	Cooling	3.94	3.83	3.82	3.79	3.73		
	Heating	4.25	4.18	4.15	4.11	4.06		
Power Supply	Ø, V, Hz			3, 380~415, 50				
Dimensions(WxHxD) mm		(1,240×1,680×760)×3						
Weight	· · · · · · · · · · · · · · · · · · ·		270 × 1 +	+ 330 × 2	320 × 1 + 330 × 2	330 × 3		
Color	9	270 × 2 + 330 × 1 270 × 1 + 330 × 2 320 × 1 + 330 × 2 Warm Gray, Morning Gray						
Noise level	dBA±3	6	5.8	66.5	66	5.8		
Fan	Туре			Propeller fan				
	Air flow rate [CMM]	670	7	10	740	750		
Compressor	Туре			HSS DC Scroll				
	Number of compressors	7		8	C	9		
Heat Exchanger				Gold fin				
Refrigerant	Туре			R410A				
	Charge kg	23.0	25	5.0	25.5	27.0		
	Control			EEV				
Oil	Туре			FVC68D(PVE)				
	Charge cc	18,200	19,9	900	21,6	600		
Piping	Liquid Pipes mm(inch)			Ø19.05(3/4)				
Connections	Low Pressure Gas Pipes mm(inch)	Ø41.3(1 5/8)						
	High Pressure Gas Pipes mm(inch)	h) Ø34.9(1 3/8)						
Number of outdoo	or unit			3				
Number of maxim	num connectable indoor units *			64				
	ectable indoor units			50~130%				
Longest piping lea	ngth / Level difference **			200m/110m				

НР			62	64	66	68	70			
Model		ation unit	ARUB620LT3 ARUB160LT3 ARUB160LT3 ARUB160LT3	ARUB640LT3 ARUB160LT3 ARUB160LT3 ARUB160LT3	ARUB660LT3 ARUB180LT3 ARUB160LT3 ARUB160LT3	ARUB680LT3 ARUB180LT3 ARUB180LT3 ARUB160LT3	ARUB700LT3 ARUB200LT3 ARUB180LT3 ARUB160LT3			
			ARUB140LT3	ARUB160LT3	ARUB160LT3	ARUB160LT3	ARUB160LT3			
Capacity	Cooling	kW	173.6	179.2	184.8	190.4	196.0			
, ,	Heating	kW	195.3	201.6	207.9	214.2	220.5			
Power	Cooling	kW	42.50	44.00	45.80	47.60	49.80			
Input	Heating	kW	44.20	46.00	48.00	50.00	52.00			
COP	Cooling		4.08	4.07	4.03	4.00	3.94			
	Heating		4.42	4.38	4.33	4.28	4.24			
Power Supply		Ø, V, Hz			3, 380~415, 50					
	Dimensions(WxHxD) mm			(1,240×1,680×760)×4						
Weight		kg	270	270 × 4 270×3 + 320×1 270 ×		270 × 2 + 320× 2	270×2+320×1+330×1			
Color					Warm Gray, Morning Gray					
Noise level		dBA±3	66.4	67 67.3		6	7.5			
Fan	Туре		Propeller fan							
	Air flow rate	[CMM]	84	40	870	900	910			
Compressor	Туре				HSS DC Scroll					
	Number of compresso	ors		3	9		10			
Heat Exchanger	·				Gold fin					
Refrigerant	Туре				R410A					
	Charge	kg	28	3.0	28.5	29.0	30.5			
	Control				EEV					
Oil	Туре				FVC68D(PVE)					
	Charge	сс	22,0	000	23,700	25	,400			
Piping	Liquid Pipes	mm(inch)			Ø22.2(7/8)					
Connections	Low Pressure Gas Pipes	mm(inch)	Ø44.5	(1 3/4)		Ø53.98(2 1/8)				
	High Pressure Gas Pipes	mm(inch)	Ø41.3	(1 5/8)		Ø44.5(1 3/4)				
Number of outdo	or unit				4					
Number of maxim	num connectable indoor	units *			64					
Ratio of the conn	ectable indoor units				50~130%					
Longest piping le	ngth / Level difference *	*			200m/110m					

I P		72	74	76	78	80		
Model	Combination unit	ARUN720LT3 ARUN200LT3	ARUN740LT3 ARUN200LT3	ARUN760LT3 ARUN200LT3	ARUN780LT3 ARUN200LT3	ARUN800LT3 ARUN200LT3		
	•	ARUN200LT3 ARUN160LT3	ARUN200LT3 ARUN180LT3	ARUN200LT3 ARUN200LT3	ARUN200LT3 ARUN200LT3	ARUN200LT3 ARUN200LT3		
		ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN180LT3	ARUN200LT3		
Capacity	Cooling kW	201.6	207.2	212.8	218.4	224.0		
	Heating kW	226.8	233.1	239.4	245.7	252.0		
Power	Cooling kW	52.00	53.80	56.00	57.80	60.00		
Input	Heating kW	54.00	56.00	58.00	60.00	62.00		
COP	Cooling	3.88	3.85	3.80	3.78	3.73		
	Heating	4.20	4.16	4.13	4.10	4.06		
Power Supply	Ø, V, Hz			3, 380~415, 50				
Dimensions(WxHxD) mm		(1,240×1,680×760)×4						
Weight	kg	270×2+330×2	270×1+320 ×1+330×2	270×1 + 330×3	320×1 + 330×3	330 × 4		
Color				Warm Gray, Morning Gray				
Noise level	loise level dBA±3		67	.8	6	8		
Fan	Туре	Propeller fan						
	Air flow rate [CMM]	920	950	960	990	1,000		
Compressor	Туре			HSS DC Scroll				
	Number of compressors	10	1	2				
Heat Exchanger				Gold fin				
Refrigerant	Туре			R410A				
	Charge kg	32.0	32.5	34.0	34.5	36.0		
	Control			EEV				
Oil	Туре			FVC68D(PVE)				
	Charge cc	25,400	27,1	00	28,	800		
Piping	Liquid Pipes mm(inch)			Ø22.2(7/8)				
Connections	Low Pressure Gas Pipes mm(inch)			Ø53.98(2 1/8)				
	High Pressure Gas Pipes mm(inch)			Ø44.5(1 3/4)				
Number of outdo	or unit			4				
Number of maxin	num connectable indoor units *			64				
Ratio of the conn	nectable indoor units			50~130%				
Longest piping le	ength / Level difference **			200m/110m				

* The number of () means the number of max. connectable indoor units, when the connected capacity of indoor units is in the table below.

** Conditional Application
To make 40-90m of pipe length after first branch refer to the part of "installation of outdoor units" in PDB

Note:

 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

- Capacities are net capacities
 Due to our policy of innovation some specifications may be changed without notification
 EEV: Electronic Expansion Valve

▲CAUTION

• A combination operation over 100% cause to reduce each indoor unit capacity

Combination ratio(50~200%)

No. of outdoor unit	Connection Capacity
Single unit	200%
Double unit	160%
Triple unit	130%
Over triple unit	130%

We can guarantee the operation only within 130% Combination.

If you want to connect more than 130% combination, please contact us and discuss the requirement like below.

1) If the operational capacity of indoor units exceed 130%, then all the indoor units operate under low air flow step mode.
2) Over 130%, capacity is same as capacity of 130%, Same remark is valid for power input.









1Ø 5HP,6HP 3Ø 4HP,5HP,6HP



* Specifications

*1Ø, 220V *3Ø, 380V

IP .			4	5	6	4	5	6	
Model	Comb	oination unit	ARUN40GS2A	ARUN50GS2A	ARUN60GS2A	ARUN40LS2A	ARUN50LS2A	ARUN60LS2A	
Capacity	Cooling	kW	11.2	14.0	15.5	11.2	14.0	15.5	
Сараспу	Heating	kW	12.5	16.0	18.0	12.5	16.0	18.0	
Б	Cooling	kW	3.0	3.5	4.2	2.6	3.5	4.2	
Power Input	Heating	kW	3.2	3.9	4.6	2.9	3.9	4.6	
COP	Cooling		3.73	4.00	3.69	4.31	4.00	3.69	
COP	Heating		3.91	4.10	3.91	4.31	4.10	3.91	
Power Supply		Ø/V/Hz	1 / 22	20 ~ 240 / 50, 1 / 220) / 60	3 / 38	30 ~ 415 / 50, 3 / 38	0 / 60	
Dimensions(WxH	(D)	mm	950×834×330	950×13	80×330		950×1380×330		
Weight		kg	77	10)6	107			
Color				Warm Gray		Warm Gray			
Niete e I errei	Cooling	dBA±3	50	51	52	50	51	52	
Noise Level	Heating	dBA±3	52	53	54	52	53	54	
Fan	Туре			BLDC			BLDC		
ran	Air flow rate	[CMM]	60	11	0				
C	Туре		DC INV Rotary				DC INV Rotary		
Compressor	Number of compress	ors		1			1		
Heat Exchanger				Gold Fin		Gold Fin			
	Туре			R410A		R410A			
Refrigerant	Charge	kg	1.8	3	.0		3.0		
	Control			EEV			EEV		
D-f-:+ O:I	Oil Type			FVC68D			FVC68D		
Refrigerant Oil	Oil Charge Amount	сс		1,300			1,300		
D: C	Liquid Pipes	mm(inch)		ø9.52(3/8)			ø9.52(3/8)		
Pipe Connctions	Gas Pipes	mm(inch)	ø15.8a	8(5/8)	ø19.05(3/4)	ø15.88	8(5/8)	ø19.05(3/4)	
Number of outdo	or unit			1			1		
Number of conne	ctable indoor units		6	8	9	6	8	9	
Ratio of the conn	ectable indoor units			50~130%			50~130%		
Longest piping le	ngth / Level difference			150m/50m			150m/50m		

 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

- Capacities are net capacities
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* Specifications

MULTI V

			6	8			
Model	Indep	pendent unit	ARUN60LR2 (Right Discharge)	ARUN80LR2 (Right Discharge)			
			ARUN60LL2 (Left Discharge)	ARUN80LL2 (Left Discharge)			
	Cooling	kW	16.0	21.7			
Capacity	Heating	kW	18.0	23.0			
	Cooling	kW	4.7	6.7			
Power Input	Heating	kW	4.9	7.1			
	Cooling		3.40	3.24			
COP	P Heating		3.67	3.23			
Power Supply		Ø/V/Hz	3, 380	D~415, 50			
Dimensions(WxHx	xD)	mm	750 x 1	790 x 650			
Weight	•	kg	200				
Color			Warm Gray				
Noise Level		dBA±3	49	53			
-	Туре		Sirocco Fan				
Fan	Air flow rate [CMM]		100	120			
_	Туре		DC Scroll				
Compressor	Number of compress	sors		1			
Heat Exchanger			Gold Fin	Wide Louver fin (Gold-Coating)			
	Туре		R	410A			
Refrigerant	Charge	kg	5.2	6.4			
-	Control		EEV				
	Oil Type		FVC6	S8D(PVE)			
Refrigerant Oil	Oil Charge Amount	сс		,300			
D: 0 ::	Liquid Pipes	mm(inch)	9.5	.2(3/8)			
Pipe Connctions	Gas Pipes	mm(inch)	19.05(3/4)				
Number of outdoo				1			
Number of conne	ctable indoor units		9	13			
Ratio of the conne	ectable indoor units		50	~130%			
Longest piping ler	ngth / Level difference		150m/50m				

* Preliminary data (8HP model)

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

- Capacities are net capacities
 Due to our policy of innovation some specifications may be changed without notification
 EEV: Electronic Expansion Valve









* Specifications

HP			10	20	30	40	50	60		
Model		nation unit			ARWN200LA2	ARWN400LA2 ARWN200LA2	ARWN200LA2	ARWN200LA2		
					ARWN100LA2	ARWN200LA2				
		:					-	ARWN200LA2		
Capacity	Cooling	kW	28.0	56.0	84.0	112.0	140.0	168.0		
	Heating	kW	31.5	63.0	94.5	126.0	157.5	189.0		
Power Input	Cooling	kW	5.6	11.2	16.8	22.4	28.0	33.6		
	' Heating kW		5.8	11.7	17.5	23.4	29.2	35.1		
COP	Cooling		5.00	5.00	5.00	5.00	5.00	5.00		
	Heating		5.43	5.38	5.40	5.38	5.39	5.38		
Power Supply		Ø/V/Hz	3, 380~415, 5			-415, 50				
Dimensions(WxHx	D)	mm	772x1,1	20x547	(772x1,12	0x547)x2	(772x1,12	0x547)x3		
Weight		kg	163	223	223+163	223+223	223+223+163	223+223+223		
Color					Warm	n Gray				
Noise Level		dBA		51	53	54	55	56		
	Туре				Stainless :	Steel Plate				
Haat Evahansas	Max. pressure resistance	kgf/cm²			4	15				
Heat Exchanger	Head loss	kPa	26.5	43	26.5+43	43+43	43+43+26.5	43+43+43		
	Rated Water flow	LPM	96	192	192+96	192+192	192+192+96	192+192+192		
_	Туре				Hermet	tic Scroll				
Compressor	Number of compresso	rs	1	2	3	4 5 6				
	Туре				R4	10A				
Refrigerant	Charge	kg	7.3	8.8	8.8+7.3	8.8+8.8 8.8+8.8+7.3 8.8+8.8				
-	Control				El	EEV				
D () . O !!	Oil Type				FVC68	D(PVE)				
Refrigerant Oil	Oil Charge Amount	сс	2,325±10	(2,325±10) + (2,325±70) (2,325±10)x2 + (2,325±70) (2,325±10)x2+ (2,325±70)x2 (2,325±10)x3+ (2,325±70)x2 (2,325±10)x3			(2,325±10)x3+ (2,325±70)x3			
	Liquid Pipes	mm(inch)	9.52(3/8)	12.7(1/2)	15.88(5/8)	19.05(3/4)				
Pipe Connctions	Gas Pipes	mm(inch)	22.2(7/8)	28.58(11/8)	34.9(1 3/8)	41.3(1.5/8)				
	Inlet		PT32A	PT40A	PT40A, PT32A	(PT40A)x2	(PT40A)x2, PT32A	(PT40A)x3		
Water Connection Outlet		PT32A	PT40A	PT40A, PT32A	(PT40A)x2	(PT40A)x2, PT32A	(PT40A)x3			
Drain Outlet				20						
Number of outdoor unit				1		2		3		
Number of connec	table indoor units		16	32	49	64				
Ratio of the conne	ctable indoor units				50~1	130%				
Longest pipina len	gth / Level difference				150m	/50m				
3 9 1011	J ,									

1. Capacities and Inputs are based on the following conditions

Cooling: Indoor temp. 27°C [80.6°F]DB/19°C[66.2°F]WB

Water inlet temp. 30°C[68°F]

Water inlet temp. 20°C[68°F] Water inlet temp. 20°C[68°F] Interconnecting piping length 7.5m

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification 4. EEV : Electronic Expansion Valve

* Specifications

HP .			10	20	30	40	50	60		
Model		nation unit			ARWB200LA2	ARWB200LA2	ARWB500LA2 ARWB200LA2	ARWB200LA2		
					ARWBIOOLAZ	ARWB200LA2	ARWB200LA2	ARWB200LA2		
	Cooling	kW	28.0	56.0	84.0	112.0	140.0	168.0		
Capacity	Heating	kW	31.5	63.0	94.5	126.0	157.5	189.0		
	Cooling	kW	5.6	11.2	16.8	22.4	28.0	33.6		
Power Input	Heating	kW	5.8	11.7	17.5	23.4	29.2	35.0		
	Cooling	KVV	5.00	5.00	5.00	5.00	5.00	5.00		
COP	P Cooling Heating		5.43	5.38	5.00	5.38	5.39	5.38		
Power Supply	rieaning	Ø/V/Hz	5.45	3.30		-415. 50	3.37	5.50		
Dimensions(WxHx	ח	mm	772-11	20x547		0x547)x2	/772,112	0x547)x3		
Weight	.0)	kg	163	223	223+163	223+223	223+223+163	223+223+223		
Color		, Ng	103	Warm Grav						
Noise Level		dBA		51	53	54	55	56		
IVOISE LEVEI	Type	UDA	`	21		Steel Plate	. 55	; 30		
	Max. pressure resistance	kqf/cm²				5				
Heat Exchanger	Head loss	kPa	26.5	4.3	26.5+43	43+43	43+43+26.5	43+43+43		
	Rated Water flow	LPM	96	192	192+96	192+192	192+192+96	192+192+192		
	Type			Hermetic Scroll						
Compressor	Number of compresso	irc	1	2	3	4	5	6		
	Type	13				: 10A				
Refrigerant	Charge	kg	7.3	8.8	8.8+7.3	8.8+8.8	8.8+8.8+7.3	8.8+8.8+8.8		
r.ogora	Control	EEV								
	Oil Type			FVC68D(PVE)						
Refrigerant Oil Oil Charge Amount cc 2,325±10				(2,325±10) + (2,325±70)	- · · · · · · · · · · · · · · · · · · ·			(2.325±10)x3+ (2.325±70)x		
	Liquid Pipes	mm(inch)	9.52(3/8)	12.7(1/2)	15.88(5/8)	19.05(3/4)				
Pipe Connctions	Gas Pipes	mm(inch)	22.2(7/8)	28.58(11/8)	34.9(1 3/8)	41.3(1.5/8)				
Inlet		PT32A	PT40A	PT40A, PT32A	(PT40A)x2	(PT40A)x2, PT32A	(PT40A)x3			
Water Connection Outlet		PT32A	PT40A	PT40A, PT32A	(PT40A)x2	(PT40A)x2, PT32A	(PT40A)x3			
Drain Outlet						0				
Number of outdoo	mber of outdoor unit 1 2 3			3						
Number of connec	table indoor units		16	32	49	64				
Ratio of the conne	ctable indoor units				50~	130%				
Longest piping len	gth / Level difference				150m	/50m				

1. Capacities and Inputs are based on the following conditions

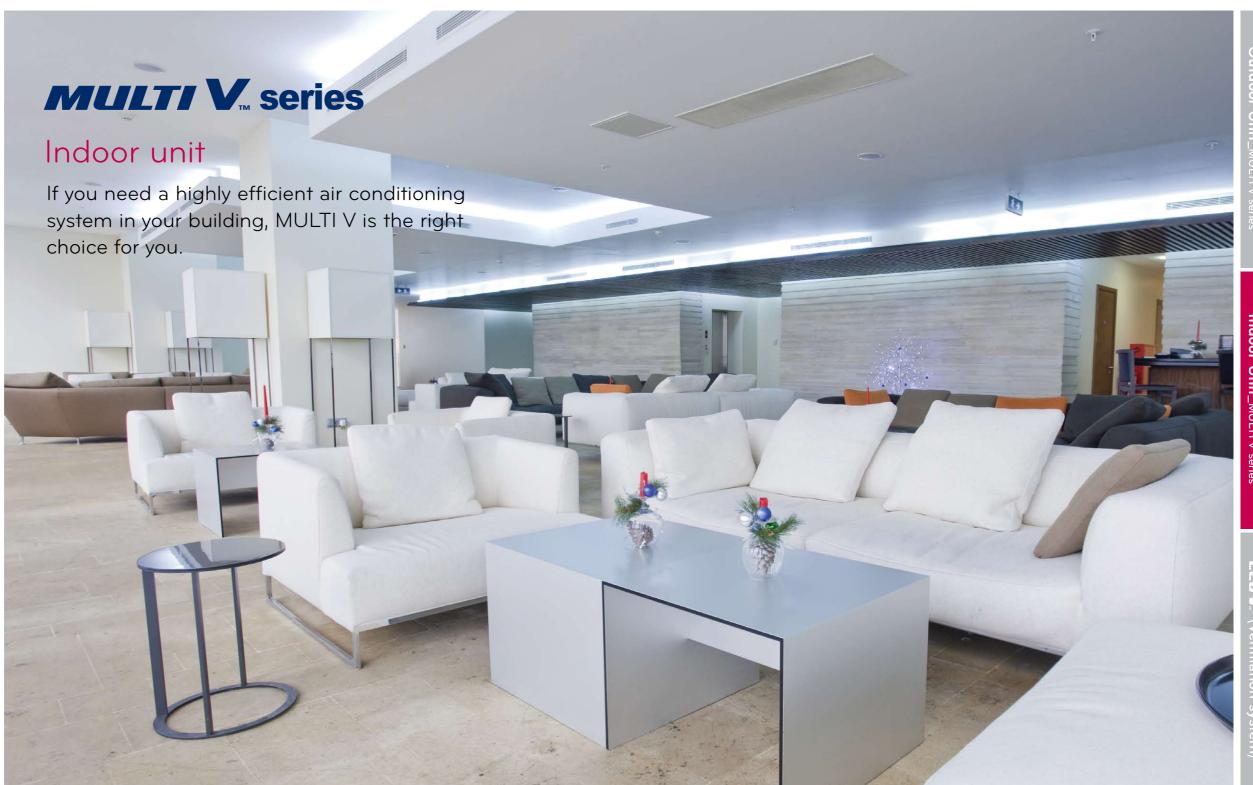
Cooling: Indoor temp. 27°C [80.6°F]DB/19°C[66.2°F]WB

Water inlet temp. 30°C[68°F]

Water inlet temp. 20°C[68°F] Water inlet temp. 20°C[68°F] Interconnecting piping length 7.5m

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification 4. EEV : Electronic Expansion Valve



50 ARTCOOL

52 Libero

53 Wall mounted

54 Console

56 Ceiling Cassette

69 Ceiling Concealed Duct

64 Fresh Air Intake Unit

66 Ceiling & Floor

67 Ceiling Suspended

68 Floor standing



LG has been able to create a design conscious indoor unit that compliments any interior decoration. And they have improved air flow innovatively to realize world's lowest noise, and provide a more pleasant and convenient indoor environment.

Aesthetic Design

You no longer have to be told what your air conditioner should look like. With LG's revolutionary ARTCOOL photo changeable, you can simply change the look of your air conditioner to what you want, when you want to.

ARTCOOL series with outstanding designs have received International Forum Design Award, Reddot Design Award and G Mark.



- How to change the picture



- Panel type

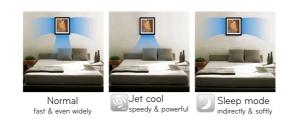


- ARTCOOL Mirror



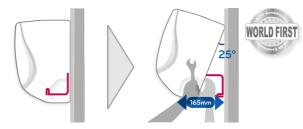
Digital Air Flow Control

The air flow can be controlled to ensure maximum comfort and convenience.



Installation support clip

Installation support clip makes installation easier *Only Libero



Bigger tubing space

Wider installation space can make you installation much easier.



Filtering

Dust floating in the air is sucked into the air conditioner and caught in the air filter

Virus & Allergy Safe Filter

Filter consists of enzyme that breaks down allergen, apatite, and organic/inorganic binder that attaches the enzyme to the filter. When the air passes the filter, allergen clings to the filter and like tiny pairs of scissors the enzymes cut allergen's protein to deactivate the allergen.



Deodorizing

Triple filter eliminates discomfort and pain of eye and throat.

Triple Filter

The triple filter consists of three specialized filters to reduce the symptoms associated with various organic compounds including formaldehyde. It also has the ability to remove unpleasant odors creating a more comfortable environment.



Red filter removes stench in daily life such as smoke, fish-stink, food-smelling and foot-stink. Black filter removes the odor of construction ingredient such as formaldehyde. Blue filter removes the chemical substances such as a smell of fresh paint.

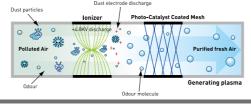
- VOC filter removes odor and hazardous VOCs that is discharged from household materials made with chemical substances (carpet, paint, cleaners, furniture, etc.) (VOC= Volatile Organic Chemical)
- Formaldehyde filter cuts off formaldehyde, a leading cause of new-house syndrome, and prevents dermatitis, vomiting, and pneumonia
- 3 Common odor filter removes ordinary odors that cause migraine and chronic fatigue

Eliminating

Tiny dust is burned and eliminated when it is captured by electric field

Plasma Filter

The plasma air purifying system was initially developed by LG not only reduction of microscopic contaminants and dust, but also removal of house mites, micro dust, and pet fur in order to reduce allergy and asthma symptoms.



Auto Cleaning

Air conditioner is kept clean not to develop germs by self cleaning

orporation,2005-2009

Auto Cleaning

Edited by Foxit Reader

A main cause of air conditioner odors is mould and bacteria that breed in the heat exchanger. The auto clean function dries the wet heat exchanger to help prevent mould and bacteria from breeding thus significantly reducing the old rag smell and saves you from frequent cleaning.



1st Step

Dries the evaporator with soft, low-noise wind and removes remaining moisture. Press "Auto Clean" and the function starts after cooling operation.



2nd Step

Removes the source of mold once again with neo plasma plus system.

In 30 minutes, "Auto Clean" dries the inner part of air conditioners' indoor unit.

Low Noise Level

The indoor unit has a quiet operational noise level in the sleep mode to offer you peace and quiet for the bedroom or office. For example, LG model CA09AWR, CA12AWR in sleep mode is only 19dB. In addition, the outdoor units have reduced vibration and noise thanks to a super quiet fan and motor.



When the fan rotates, the stabilizer and the fan blade are in parallel (= the contact of lines)

→Instantaneous pressure change is great.

When the fan rotates, the stabilizer and the fan blade are not in parallel (= the contact of points)

→Instantaneous pressure change is small.



MULTI V

4 Vanes Independent Operation

Vane angle control satisfies both users who like direct wind and indirect wind. and also it prevents cold air draft.



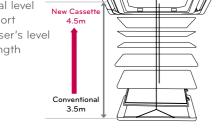


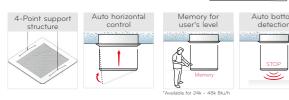
Auto Elevation Grille

Easy filter cleaning with elevation grille



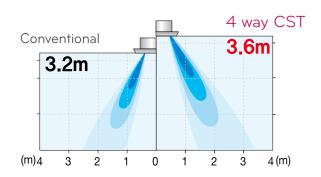
- Auto horizontal level - 4 points support
- Memory for user's level
- Max. 4.5m length





High Ceiling Mode

High ceiling mode with phase-control algorithm is possible to apply as high as 3.6m of ceiling.



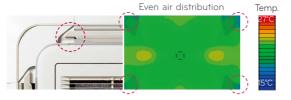
Wide Jet Vane

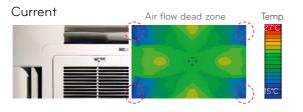
Improved wide and narrow vane will provide comfortable temperature distribution without air flow dead zone.

Air flow improvement



Highlander



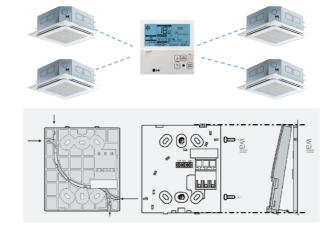


Flexible Connection

Flexible connection of remote controller

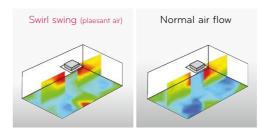
- Group control
- : 1 remote controller to several indoor units
- Second remote control
- : 2 remote controllers to 1 indoor unit

Easy & solid attachment to the wall

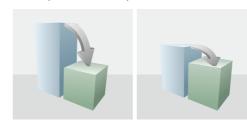


Swirl Swing

Swirl swing distributes air evenly throughout the room to ensure a more comfortable conditioned environment by adjusting the movement of the vane.



• Comparison of temperatures



Vertical Temp. differences Horizontal Temp. differences

Compact Size

The indoor unit with slim and compact size has reduced the restriction which enables successful installation in various spaces.





One Touch Type Panel

It provides easy installation with a one-touch detachable



Convenient Installation

Easy installation with corner detachable decoration

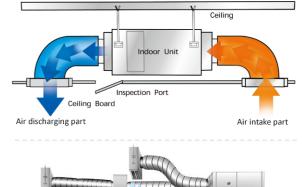
• Coner detachable design





Application of Ceiling Concealed Duct

It is possible to make each rooms cool & warm with installing a chamber and a spiral duct.

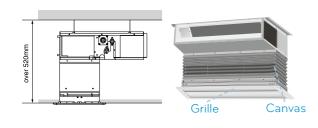


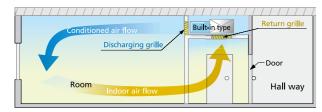




Application of Built-in Duct

Built-in duct has no need of duct space with using suction canvas and grille.





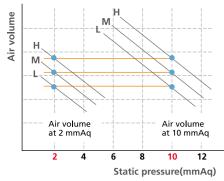


Linear E.S.P Control

Air volume and sound are always kept as design regardless of E.S.P change using this technology, you can

- Optimize duct work Installation
- Keep capacity & sound level as desired
- Simplify model numbers

The phase control motor technology offers money saving benefit to the installer.



*E.S.P is easily controlled by remote controller

Flexible Installation

The Ceiling & Floor model can be installed either ceiling or floor. So you can save the space when you install this units on your shop or office.

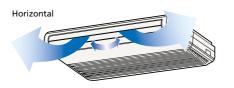


*Floor is only for DC inverter

Airflow Direction Control

Horizontal Airflow Direction Control.

Adjust the horizontal airflow direction by manually moving the horizontal airflow direction louver by hand.



Vertical Airflow Direction Control

The airflow direction can be adjusted as desired by using the remote controller.



LG Unique design

Console has been designed with the latest technologies to ensure optimum comfort.

- Full front panel
- 3 dimensional round design



Comfort Air Flow

•Different air flow of cooling & heating

For cooling, the vane is adjusted upwards to let the cold air travel up. As for heating, the vane sends the heated air downwards to balance room temperature specially



Healthy Air (3 stage air filter system)



Weekly Program

You can set the daily temperature and automatic on/off times for one week

Weekly reservation keeps operating until it is cancelled by the user



runit is turned on to the desired temperature, the TEMP wn buttons can be used to set the desired present or preset temperature.

(Temperature selection range : 18°C~30°C)

*When desired temperature is not set, it is turned on automatically with the desired temperature of the previous

1st Advanced pre filter: The antibacterial pre-filter



Side

All sides (side, back, floor) are possible to install and connect to the outdoor unit.

2nd Allergy Filter:



Filter consists of enzyme that breaks down allergen, apatite, and organic/inorganic binder that attaches the enzyme to the filter. When the air passes the filter, allergen clings to the filter and like tiny pairs of scissors the enzymes cut allergen's protein to deactivate the allergen.

primarily reduces large dust,

mould and quilt dust.

3rd Plasma Ion Generator :



The sterilized ion generating system, Ion Generator, emits around 1.2 million ions, and catches hazardous substances floating in the air, therefore proactively looking for and catching germs.

Sliding Type Filter

Easy maintenance and extended product life with sliding type anti-biotic filter.





Easy cleaning

Sliding type

ART COOL Gallery







- * Photo changeable
- * Panel type
- * 1: Photo changeable, V: Silver, E: Red, G: Gold, H: White Silver



Specifications

			ARNU07G SF *2	ARNU09G SF *2					
	0 "	kW	2.2	2.8	3.6				
	Cooling	Btu/h	7,500	9,600	12,300				
Capacity	11 11	kW	2.5	3.2	4.0				
	Heating	Btu/h	8,500	10,900	13,600				
Danier Innert	Cooling	W		35					
Power Input	Heating	W		35					
Power Supply		Ø, V, Hz		1, 220~240, 50					
Dimensions(Wxl	DxH)	mm		600x146x600					
Weight		kg	15						
Noise level		dBA±3	38 / 32 / 27 44 / 38 / 32						
Air flow rate	H/M/L	CMM	8.1 / 6.	8.1 / 6.3 / 4.2 9.3 / 7.7 / 6.0					
Neo Plasma air purifying filter			0						
5	Liquid	mm(inch)	Ø6.35(1/4)						
Piping	Gas	mm(inch)	Ø12.7(1/2)						
Connection	Drain(ID)	mm		12.2					

Accessories

Model		ARNU07GSF*2 ARNU09GSF*2 ARNU12GSF*2								
	Without case(1 contact point)		PQDSA							
Dry Contact	With case(1 contact point)	PQDSB/ PQDSB1								
	With case(2 contact point)	PQDSBC								

		Wired remote cor	ntroller		Wireless remote controller
23, 0 - 28 = - 1 = 1 = 1 = - 1 = 1 = 1 =	* 180 am				
Deluxe type PQRCUDS0*	Standard type PQRCVSL0	Standard type PQRCVSLOQW	Simple type PQRCVCL0Q(Black) PQRCVCL0QW(white)	Simple type for hotel PQRCHCAOQW(White) PQRCHCAOQ(Black)	PQWRHDFO

ART COOL MIRROR •ARNU07GSE*2





* R : Mirror, B : Blue, V : Silver

•ARNU18G**S8***2

•ARNU24GS8*2

Specifications

			ARNU07G SE *2	ARNU09G SE *2				ARNU24G S8 *2	
	0 1:	kW	2.2	2.8	3.6	4.5	5.6	7.1	
C	Cooling	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
Capacity	11	kW	2.5	3.2	4.0	5.0	6.3	8.0	
	Heating	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	
Danier Iraniet	Cooling	W			4	0			
Power Input	Heating	W			4	0			
Power Supply		Ø, V, Hz			1, 220~	240, 50			
Dimensions(WxDx	DxH)	mm	915x165x282 1,107x2					00x299	
Weight		kg		11.2				15	
Noise level		dBA±3	37 / 33 / 23	39 / 35 / 25	41 / 36 / 27	42 / 36 / 27	37 / 34 / 31	43 / 37 / 32	
Air flow rate	H/M/L	CMM	7/6/4	8/7/5	10 / 8 / 6	10.5 / 8 / 6	14.4 / 13 / 11	17.9 / 14.4 / 12	
Neo Plasma air	purifying filter								
D: :	Liquid	mm(inch)		Ø9.52(3/8)					
Piping	Gas	mm(inch)			Ø12.7(1/2)			Ø15.88(5/8)	
Connection	Drain(ID)	mm			1	6			

Model	Model		ARNU09GSE*2						
	Without case(1 contact point)	PQDSA							
Dry Contact	With case(1 contact point)	PQDSB/ PQDSB1							
	With case(2 contact point)	PQDSBC							



•ARNU07GSBL2

- •ARNU09GSBL2
- •ARNU12GSBL2
- •ARNU15GSBL2
- •ARNU18GSCL2
- •ARNU24GSCL2



Libero



*To be launched

Specifications

			ARNU07G SB L2	ARNU09G SB L2			ARNU18G SC L2	ARNU24G SC L2		
	C !:	kW	2.2	2.8	3.6	4.5	5.6	7.1		
C	Cooling	Btu/h	7,500	9,600	12,300	15,400	19100	24200		
Capacity	11	kW	2.5	3.2	4	5	6.3	8		
	Heating	Btu/h	8,500	10,900	13,600	17,100	21500	27300		
Danier Iraniet	Cooling	W			4	.0				
Power Input	Heating	W			4	.0				
Power Supply		Ø, V, Hz			1, 220 ~	240, 50				
Dimensions(Wx	:DxH)	mm		885x210x285 1030x2						
Weight		kg		11				18		
Noise level		dBA±3	31/28/25	31/28/25 34/31/24 37/33/27 39/33/27				45/40/35		
Air flow rate	H/M/L	CMM	5.6/5.0/4.6	5.6/5.0/4.6 7.0/6.5/6.0 9.5/9.0/8.5 10.5/9.0/8.5				20.4/17.0/13.2		
Neo Plasma air	purifying filter			0						
Distant	Liquid	mm(inch)		Ø6.35(1/4)						
Piping Connection	Gas	mm(inch)			Ø12.7(1/2)			Ø15.88(5/8)		
Connection	Drain(ID)	mm			1	6				

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

Accessories

Without case(1 contact point) PQDSA Dry Contact With case(1 contact point) PQDSB/ PQDSB1	Model	Model		ARNU09GSBL2			ARNU18GSCL2	ARNU24GSCL2		
		Without case(1 contact point)	PQDSA							
	Dry Contact	With case(1 contact point)	PQDSB/ PQDSB1							
With case(2 contact point) PQDSBC		With case(2 contact point)	PQDSBC							



Edited by Foxit Reader

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For Evaluation Only.

Wall Mounted

•ARNU09GSEL2

•ARNU07GSEL2

•ARNU12G<mark>SE</mark>L2

•ARNU15GSEL2

•ARNU18GS5L2

•ARNU24GS5L2



Specifications

			ARNU07G SE L2	ARNU09G SE L2	ARNU12G SE L2					
	0 11	kW	2.2	2.8	3.6	4.5	5.6	7.1		
C ::	Cooling	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200		
Capacity	11	kW	2.5	3.2	4.0	5.0	6.3	8.0		
	Heating	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300		
Daniel Invest	Cooling	W			4	.0				
Power Input	Heating	W			4	.0				
Power Supply		Ø, V, Hz		1, 220~240, 50						
Dimensions(WxD:	DxH)	mm		895x16	5x282		1090x1	78x300		
Weight		kg		9				12		
Noise level		dBA±3	37 / 33 / 23	37 / 33 / 23 39 / 35 / 25 41 / 36 / 27 42 / 36 / 27				46 / 41 / 38		
Air flow rate	H/M/L	CMM	5.6 / 5 / 4.6	7 / 6.5 / 6	9.5 / 9 / 8.5	10.5 / 9 / 8.5	12 / 10.5 / 9	14 / 13 / 10		
Neo Plasma air	purifying filter									
D: :	Liquid	mm(inch)		Ø6.35(1/4)						
Piping	Gas	mm(inch)			Ø12.7(1/2)			Ø15.88(5/8)		
Connection	Drain(ID)	mm			20	/16				

Note :

1. Capacities are based on the following conditions Cooling-Indoor temp. 27°C[80.6°F]DB / 19°C[66.2°F]WB

oling-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

Model	Model		ARNU09GSEL2				ARNU24GS5L2			
	Without case(1 contact point)	PQDSA								
Dry Contact	With case(1 contact point)	PQDSB/ PQDSB1								
	With case(2 contact point)	PQDSBC								





- •ARNU12GQAA2
- •ARNU15GQAA2





Specifications

Model		Unit	ARNU07G QA A2	ARNU09G QA A2	ARNU12G QA A2	ARNU15G QA A2			
Capacity	0 "	kW	2.2	2.8	3.6	4.5			
	Cooling	Btu/h	7,500	9,600	12,300	15,400			
	11 11	kW	2.5	3.2	4.0	5.0			
	Heating	Btu/h	8,500	10,900	13,600	17,100			
Power Input	Cooling	W		4	18				
	Heating	W		48					
Power Supply Ø, V, Hz				1, 220 ~ 240, 50					
Dimensions(Wx	:DxH)	mm		700x210x600					
Weight		kg		1	4				
Noise level		dBA±3	37/3	34/28	39/34/28	42/37/31			
Air flow rate	H/M/L	CMM	6.7/5	5.9/4.8	7.5/5.9/4.8	8.7/6.7/5.9			
Neo Plasma air	purifying filter		0						
District or	Liquid	mm(inch)		Ø6.3	5(1/4)				
Piping Connection	Gas	mm(inch)		Ø12.	7(1/2)				
	Drain(ID)	mm		12	2.2				

Model		ARNU07GQAA2	ARNU09GQAA2	ARNU12GQAA2	ARNU15GQAA2			
	Without case(1 contact point)	PQDSA						
Dry Contact	With case(1 contact point)	PQDSB/ PQDSB1						
	With case(2 contact point)	PQDSBC						

		Wired remote cor	ntroller		Wireless remote controller
= 23° € - 5° € ⊞ = 10° € 10° € • 00° €	* 180 am	Am i			
Deluxe type PQRCUDS0*	Standard type PQRCVSL0	Standard type PQRCVSLOQW	Simple type PQRCVCL0Q(Black) PQRCVCL0QW(white)	Simple type for hotel PQRCHCAOQW(White) PQRCHCAOQ(Black)	PQWRHDFO



•ARNU05GTRC2

•ARNU07GTRC2

- •ARNU09GTRC2
- •ARNU12GTRC2
- •ARNU15GTQC2
- •ARNU18GTQC2

4 Way Cassette (570*570)





Specifications

			ARNU05GTRC2	ARNU07GTRC2	ARNU09GTRC2	ARNU12G TR C2	ARNU15G TQ C2	ARNU18G TQ C2		
	0 "	kW	1.6	2.2	2.8	3.6	4.5	5.6		
Capacity	Cooling	Btu/h	5,500	7,500	9,600	12,300	15,400	19,100		
	11 12	kW	1.8	2.5	3.2	4.0	5.0	6.3		
	Heating	Btu/h	6,100	8,500	10,900	13,600	17,100	21,500		
Danier Incord	Cooling	W			4	5				
Power Input	Heating	W		45						
Power Supply		Ø, V, Hz			1, 220 ~	240, 50				
Dimensions	Body	mm	570 x 570 x 214 570 x 570 x 256							
(WxDxH)	Front Panel	mm		700x700x30						
147 : 1 :	Body	kg	13	13.1 14.2				i.5		
Weight	Front Panel	kg		3.2						
Panel Color					Mornir	ng Fog				
Noise level		dBA±3	29 / 2	7 / 26	30 / 29 / 27	32 / 30 / 27	36 / 34 / 32	37 / 35 / 34		
Air flow rate	H/M/L	CMM	7.5 / 7	7 / 6.6	8 / 7.5 / 7.1	8.7 / 8 / 7	11 / 10 / 9.3	11.2 / 11 / 10		
Neo Plasma air	purifying filter		Option							
5	Liquid	mm(inch)			Ø6.3	5(1/4)				
Piping	Gas	mm(inch)			Ø12.7	7(1/2)				
Connection	Drain(ID)	mm			2	5				

Accessories

Model		ARNU05GTRC2	ARNU07GTRC <mark>2</mark>	ARNUC	9GTRC2	ARNU12GTRC2	ARNU15GTQC2	ARNU18GTQC2
	Without case(1 contact point)			10	DT	LIOC		
Dry Contact	With case(1 contact point)			IU.	$P \Gamma$	- 000		
	With case(2 contact point)							
Front panel					PT-F	ILC		

		Wired remote cor	Wired remote controller				
23° 0 = 23° 0	* 180 am		*** **** **** **** ***** ***** ***** ****				
Deluxe type PQRCUDS0*	Standard type PQRCVSL0	Standard type PQRCVSLOQW	Simple type PQRCVCL0Q(Black) PQRCVCL0QW(white)	Simple type for hotel PQRCHCA0QW(White) PQRCHCA0Q(Black)	PQWRHDF0		

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For Evaluation Only.

Cassette (840*840)



Specifications

			ARNU24G TP C2	ARNU28G TP C2	ARNU36G TN C2	ARNU42G TM C2	ARNU48G TM C2	
	0 1:	kW	7.1	8.2	10.6	12.3	14.1	
	Cooling	Btu/h	24,200	28,000	36,200	42,000	48,100	
Capacity	11	kW	8.0	9.2	11.9	13.8	15.9	
	Heating	Btu/h	27,300	31,500	40,600	43,800	51,200	
D	Cooling	W	3	3		144		
Power Input	Heating	W	3	3		144		
Power Supply		Ø, V, Hz			1, 220 ~ 240, 50			
Dimensions	Body	mm	840x84	40x204	840x840x246	840x840x288		
(WxDxH)	Front Panel	mm			950x950x25			
147 - 1 -	Body	kg	20	0.8	23.5	25.6		
Weight	Front Panel	kg			5.6			
Panel Color					Morning Fog			
Noise level		dBA±3	36 / 34 / 31	39 / 35 / 33	43 / 40 / 37	44 / 41 / 38	46 / 43 / 41	
Air flow rate	H/M/L	CMM	17 / 15 / 13	19 / 16 / 14	25 / 21 / 19	30 / 27 / 24	31 / 29 / 27	
Neo Plasma air	purifying filter		Option					
D: -	Liquid	mm(inch)			Ø9.52(3/8)			
Piping	Gas	mm(inch)			Ø15.88(5/8)			
Connection	Drain(ID)	mm			25			

	Without case(I contact point)			PQDSA				
Dry Contact	With case(1 contact point)		PQI	DSB/ PQDSB1				
	With case(2 contact point)		PQDSBC					
Front panel				PT-UMC				
Auto Elevation G	Grille			PTEGMO				
Ventilation Kit			PTVK410 / I	PTVK420 / PTVK 430				
		Wired remote cor	ntroller	V	Vireless remote controller			
= 23, ÷ -20 ⊞ = = = = = = = = = = = = = = = = = = =	# 100 ss	* B) = 1						
Deluxe ty		Standard type PQRCVSLOQW	Simple type PQRCVCLOQ(Black)	Simple type for hotel PQRCHCAOQW(White)	© 10			

2 Way Cassette



- •ARNU18GTLC2
 •ARNU24GTLC2
- Asson Soft Dry

 | Child Start | Child Start

Specifications

			ARNU18G TL C2	ARNU24GTLC2		
	0 11	kW	5.6	7.1		
Capacity Heating	Cooling	Btu/h	19,100	24,200		
	11	kW	6.3	8.0		
	Heating	Btu/h	21,500	27,300		
	Cooling	W		70		
Power Input	Heating	W		70		
Power Supply Ø, V, Hz			1, 220 ~ 240, 50			
Dimensions	Body	mm	830x550x225			
(WxDxH)	Front Panel	mm	1050x	640x28.5		
	Body	kg	22			
Weight	Front Panel	kg	4.5			
Panel Color			Morning Fog			
Noise level		dBA±3	40/36/32	42/38/34		
Air flow rate	H/M/L	CMM	13 / 12 / 10	17 / 15 / 13		
Neo Plasma air	purifying filter		0	ption		
n	Liquid	mm(inch)	Ø6.35(1/4)	Ø9.52(3/8)		
Piping	Gas	mm(inch)	Ø12.7(1/2)	Ø15.88(5/8)		
Connection	Drain(ID)	mm		25		

Accessories

Model						
	Without case(1 contact point)	PQE	OSA .			
Dry Contact	With case(1 contact point)	PQDSB/	PQDSB1			
	With case(2 contact point)	PQDSBC				
Front panel		PT-HLC				

		Wired remote cor	Wired remote controller					
	* 180 pm	# 100 pm						
Deluxe type PQRCUDS0*	Standard type PQRCVSL0	Standard type PQRCVSLOQW	Simple type PQRCVCL0Q(Black) PQRCVCL0QW(white)	Simple type for hotel PQRCHCA0QW(White) PQRCHCA0Q(Black)	PQWRHDFO			

•ARNU07GTUC2

- •ARNU09GTUC2
- •ARNU12GTUC2
- •ARNU18GTTC2
- •ARNU24GTTC2

1 Way Cassette	
Grill Type	



Specifications

			ARNU07GTUC2	ARNU09G TU C2	ARNU12G TU C2	ARNU18GTTC2	ARNU24GTTC2	
	0 "	kW	2.2	2.8	3.6	5.6	7.1	
o ::	Cooling	Btu/h	7,500	9,600	12,300	19,100	24,200	
Capacity	11 11	kW	2.5	3.2	4.0	6.3	7.1	
	Heating	Btu/h	8,500	10,900	13,600	21,500	24,200	
ь	Cooling	W		40		70		
Power Input Heating		W		40	-	' O		
Power Supply		Ø, V, Hz		1, 220~240, 50				
Dimensions	Body	mm		860x450x132	1,180x4	50x132		
(WxDxH)	Front Panel	mm		1,100x500x34	1,420x	500x34		
	Body	kg		14.7	18	3.7		
Weight	Front Panel	kg		5.3/4.4	6.5	/5.5		
Panel Color					White			
Noise level		dBA±3	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	40 / 37 / 35	43 / 40 / 36	
Air flow rate	H/M/L	CMM	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10 / 9.2 / 8.2	13.3/12.1/10.9	14.6 / 13.3 / 11.5	
Neo Plasma air	purifying filter		Option					
D	Liquid	mm(inch)		Ø6.3	5(1/4)		Ø9.52(3/8)	
Piping	Gas	mm(inch)		Ø12.7	7(1/2)		Ø15.88(5/8)	
Connection	Drain(ID)	mm			25			

Accessories

Model	Model		ARNU07GTUC2 ARNU09GTUC2 ARNU12GTUC2			ARNU24GTTC2	
Without case(1 contact poin			PQDSA	PQDSA			
Dry Contact	ontact With case(1 contact point)		PQDSB/ PQDSB1		PQDSB/ PQDSB1		
	With case(2 contact point)	PQDSBC			PQDSBC		
Front panel	Front panel		PT-UUD/ PT-UUC			PT-UTD/PT-UTC	



- •ARNU07GB1G2
- •ARNU09GB1G2
- •ARNU12GB1G2
- •ARNU15G<mark>B1</mark>G2
- •ARNU18G<mark>B2</mark>G2
- •ARNU24GB2G2



Low Static Duct



•ARNU07GB3G2

- •ARNU09GB3G2
- •ARNU12GB3G2
- •ARNU15GB3G2
- •ARNU18GB4G2
- •ARNU24GB4G2



Built-in Duct



Specifications

			ARNU07G B1 G2	ARNU09G B1 G2	ARNU12G B1 G2	ARNU15G B1 G2	ARNU18G B2 G2	ARNU24G B2 G2	
	C !:	kW	2.2	2.8	3.6	4.5	5.6	7.1	
o	Cooling	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
Capacity	11	kW	2.5	3.2	4.0	5.0	6.3	8.0	
	Heating	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	
Power Input Cooling W Heating W			3	0		8	80		
			3	80					
Power Supply Ø, V, Hz				1, 220 ~	240, 50				
Dimensions(Wx	Dimensions(WxDxH) mm			820x5	75x190		1100x5	75x190	
Weight		kg		2	26				
Noise level		dBA±3	29 / 26 / 24	31 / 29 / 26	33 / 30 / 29	34 / 33 / 31	40 / 37 / 34	43 / 40 / 37	
E.S.P range		mmAq			0	-4			
Air flow rate	H/M/L	СММ	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.5 / 9.5	16 / 14 / 12	19 / 17 / 15	
Neo Plasma air	purifying filter					-			
5	Liquid	mm(inch)		Ø6.35(1/4)					
Piping	Gas	mm(inch)			Ø12.7(1/2)			Ø15.88(5/8)	
Connection	Drain(ID)	mm			25	5.4			

Accessories

Model		ARNU07GB1G2	ARNU09GB1G2			ARNU18GB2G2	ARNU24GB2G2	
	Without case(1 contact point)			PQI	DSA			
Dry Contact	With case(1 contact point)	PQDSB/ PQDSB1						
	With case(2 contact point)	PQDSBC						



Specifications

			ARNU07G B3 G2	ARNU09G B3 G2	ARNU12G B3 G2	ARNU15G B 3G2	ARNU18G B4 G2	ARNU24G B4 G2	
	0 11	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	Cooling	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
Capacity	11 11	kW	2.5	3.2	4.0	5.0	6.3	8.0	
	Heating	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	
D	Cooling	W		3	0		8	80	
Power Input	Heating	W		30					
Power Supply Ø, V, Hz			1, 220~ 240, 50						
Dimensions(WxDxH) mm			820x575x190 1100x5						
Suction grille (WxDxH)			910x359x56 1188>						
Suction canvas	(WxHxD)			1100x274x	x(45~250)				
Weight		kg		2	26				
Noise level		dBA±3	33 / 32 / 29	34/33/32	35 / 34 / 33	41 / 40 / 37	43 / 40 / 37	46 / 43 / 37	
E.S.P range		mmAq			0-	-4			
Air flow rate	H/M/L	CMM	8 / 6.5 / 5.5	9/7/6	10 / 8 / 6.5	11 / 10 / 8	14 / 12 / 10	17 / 15 / 10	
Neo Plasma air purifying filter					-				
D: :	Liquid	mm(inch)		Ø6.35(1/4)					
Piping	Gas	mm(inch)			Ø12.7(1/2)			Ø15.88(5/8)	
Connection	Drain(ID)	mm			25	5.4			

Model		ARNU07GB3G2	ARNU09GB3G2	ARNU12GB3G2	ARNU15GB3G2		ARNU24GB4G2	
	Without case(1 contact point)	PQDSA						
Dry Contact	With case(1 contact point)	PQDSB/ PQDSB1						
	With case(2 contact point)	PQDSBC						
Suction Grille		PBSGB30				PBSGB40		
Suction Canvas			PBS	C30		PBS	C40	



- •ARNU07GBHA2
- •ARNU09GBHA2
- •ARNU12GBHA2
- •ARNU15GBHA2
- •ARNU18GBHA2
- •ARNU24GBHA2



High Static Duct



•ARNU28GBGA2

- •ARNU36GBGA2
- •ARNU42GBGA2
- •ARNU48GBRA2
- •URNU76GB8A2
- •URNU96GB8A2



High Static Duct



Specifications

			ARNU07GBHA2	ARNU09G BH A2	ARNU12G BH A2	ARNU15G BH A2	ARNU18G BH A2	ARNU24GBHA2		
	0 1:	kW	2.2	2.8	3.6	4.5	5.6	7.1		
	Cooling	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200		
Capacity	Hti	kW	2.5	3.2	4.0	5.0	6.3	8.0		
	Heating	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300		
Cooling					15	60				
Power Input	Heating	W			15	50				
Power Supply Ø, V, Hz					1, 220 ~	240, 50				
Dimensions(Wx	:DxH)	mm			882x45	50x260				
Weight		kg	26				26	5.5		
Noise level		dBA±3	34 / 33 / 32	35 / 34 / 33	37 / 35 / 34	39 / 37 / 34	40 / 38 / 37	42 / 41 / 40		
E.S.P range		mmAq		3~12						
Air flow rate	H/M/L	CMM	8.5 / 7.5 / 6	10 / 8.5 / 7.5	12 / 10 / 8.5	13.5 / 12 / 8.5	15.5 / 13.5 / 12.4	18.3 / 16.9 / 15.5		
Neo Plasma air	purifying filter									
D: :	Liquid	mm(inch)		Ø6.35(1/4) Ø9.52						
Piping	Gas	mm(inch)			Ø12.7(1/2)			Ø15.88(5/8)		
Connection	Drain(ID)	mm			2	5				

Accessories

Model		ARNU07GBHA2 ARNU09GBHA2	ARNU12GBHA2	ARNU15GBHA2	ARNU18GBHA2	ARNU24GBHA2	
	Without case(1 contact point)	PQDSA					
Dry Contact	With case(1 contact point)	PQDSB/ PQDSB1					
	With case(2 contact point)	PQDSBC					



Specifications

Model		Unit	ARNU28G BG A2	ARNU36G BG A2	ARNU42G BG A2	ARNU48G BR A2	URNU76G B8 A2	URNU96G B8 A2	
	O 1:	kW	8.2	10.6	12.3	14.1	22.4	28.0	
C	Cooling	Btu/h	28,000	36,200	42,000	48,100	76,400	95,900	
Capacity	Hankina	kW	9.2	11.9	13.8	15.9	25.2	31.5	
	Heating	Btu/h	31,500	40,600	43,800	51,200	86,000	107,500	
Danier Iana	Cooling	W		4.	50		80	00	
Power Input	Heating	W		450			800		
Power Supply Ø, V, Hz					1, 220 ~	240, 50			
Dimensions(WxDxH) mm		mm	1182x450x298			1230x590x380	1562x6	88x460	
Weight		kg		38		53	87		
Noise level		dBA±3	42 / 41 / 40	44 / 43 / 42	45 / 44 / 44	44 / 42 / 41	50 / 48 / 48	52 / 50 / 50	
E.S.P range		mmAq		5~16		5~20	6~	25	
Air flow rate	H/M/L	CMM	25.9 / 24.1 / 21.8	32.3 / 29 / 25.3	34.5 / 32.3 / 30.7	44.8 / 40.6 / 33.3	60 / 50 / 50	72 / 64 / 64	
Neo Plasma air į	ourifying filter					-			
Dinin	Liquid	mm(inch)			Ø9.52	2(3/8)			
Piping Connection	Gas	mm(inch)		Ø15.8	8(5/8)		Ø19.05(3/4)	Ø22.2(7/8)	
Connection	Drain(ID)	mm			2	5			

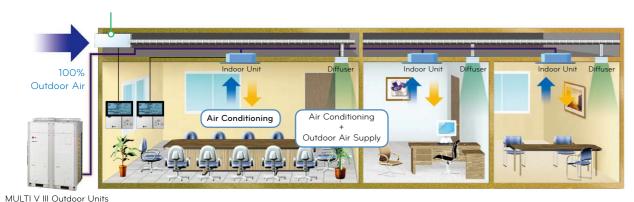
Model		ARNU28GBGA2	ARNU36GBGA2	ARNU42GBGA2	ARNU48GBRA2	URNU76GB8A2	URNU96GB8A2
Without case(1 contact point)				PQD	SA		
Dry Contact	With case(1 contact point)		PQDSB/ PQDSB1				
	With case(2 contact point)			PQD:	SBC		



Fresh Air Intake Unit

Fresh Outdoor Air Supply

The LG Fresh Air Intake Unit (FAU) is the alternative solution for ventilation, which allows to supply the Fresh outdoor air into the indoor space as well as cool and Heat air inside simultaneously. It makes indoor space be in positive pressure consistently, which can block cold, hot and contaminated air from outside.



Economic Operation

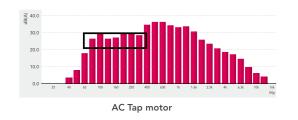
Using the free cooling and heating can save cost by blowing the natural outdoor air in when the season changes.





BLDC Fan Motor

It can reduce a noise on low frequency which is stressful for humans.





Edited by Foxit Reader Copyright(C) by Foxit Corporation, 2005-2009 Fresh Air Intake Unit

- •ARNU48GBRZ2
- •URNU76GB8Z2
- •URNU96GB8Z2







URNU96GB8Z2

Specifications

			ARNU48G BR Z2	URNU76G B8 Z2	URNU96G B8 Z2	
	Capacity	kW	14.1	22.4	28	
Cooling		kcal/h	12,100	19,300	24,100	
		Btu/h	48,100	76,400	95,900	
_		kW	13.5	21.4	26.7	
Heating				DF 122 12		
	Cooling	Outdoor	temn 33°C/914°FIDB	/ 28°C/82 4°F\W/R		
Casina	Cooling: Outdoor temp. 33°C(91.4°F)DB / 28°C(82.4°F)WB					

Interconnecting Piping Length: 7.5m

(WxDxH) Level Difference of Zero Coil Outdoor temp. 0°C(32°F)DB / -2.9°C(26.78°F)WB Heating:

Motor Typ

Sound A Air Filter Safety De Pipe Noise Lev Power S Refrigera Power Ca Transmi

Casing

Fan

11.Changed door/Outdoor temp. 33°C(91.4°F)DB / 28°C(82.4°F)WE evel Difference of Zero ndeor temp. 0°C(32°F)DB / 28°C(26.78°F)WB nterconnecting Piping Length : 7.5m evel Difference of Zero

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))

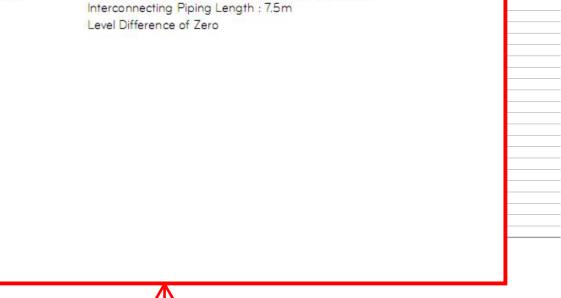
4. Due to our policy of innovation some specifications may be changed without prior notification

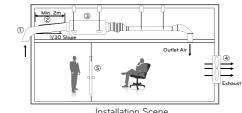
A CAUTION

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 capcity of Fresh Air Intak Unit should be 50~100% of outdoor unit.
		2) The max quantity of Fresh Air Intake is 2 units.
2	Mixture connection with general indoor unit and Fresh Air Intake Unit	The toteal 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 outdoor units.





Installation Scene

Ceiling & Floor



•ARNU09GVEA2
•ARNU12GVEA2



Specifications

			ARNU09G VE A2	ARNU12GV E A2				
	C 1:	kW	2.8	3.6				
o	Cooling	Btu/h	9,600	12,300				
Capacity	11	kW	3.2	4.0				
	Heating	Btu/h	10,900	13,600				
Power Input	Cooling	W	30					
	Heating	W	30					
Power Supply Ø, V, Hz			1, 220 ~ 240, 50					
Dimensions(WxDxH) mm		mm	900x200x490					
Weight		kg	13.7					
Noise level		dBA±3	36 / 32 / 28	38 / 36 / 30				
Air flow rate	H/M/L	CMM	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9				
Plasma air purif	fying filter			=				
Piping	Liquid	mm(inch)	Ø6.35(1/4)					
	Gas	mm(inch)	Ø12.7(1/2)					
Connection	Drain(ID)	mm	16					

Accessories

Model		ARNU09GVEA2	ARNU12GVEA2			
	Without case(1 contact point)	PQDSA				
Dry Contact	With case(1 contact point)	PQDSB/ PQDSB1				
	With case(2 contact point)	int) PQDSBC				

		Wired remote cor	Wired remote controller Wi					
= 23° 0 -20° 0 = = 13 = 13 = 13 = 13 = 13 = 13 = 13 =	* 180 am	Am in						
Deluxe type PQRCUDSO*	Standard type PQRCVSL0	Standard type PQRCVSL0QW	Simple type PQRCVCL0Q(Black) PQRCVCL0QW(white)	Simple type for hotel PQRCHCA0QW(White) PQRCHCA0Q(Black)	PQWRHDF0			

Ceiling Suspended

•URNU18G**VJ**A2 •URNU24G**VJ**A2



0..

Specifications

			URNU18GVJA2	URNU24GVJA2			
	C 1:	kW	5.6	7.1			
o ::	Cooling	Btu/h	19,100	24,200			
Capacity	11	kW	6.3	8.0			
	Heating	Btu/h	21,500	27,300			
Power Input	Cooling	W	6	3			
	Heating	W	6	3			
Power Supply Ø, V, Hz			1, 220~240, 50				
Dimensions(Wx	Dimensions(WxDxH) mm		950x220x650				
Weight		kg	24.6				
Noise level		dBA±3	42 / 40 / 37	43 / 41 / 39			
Air flow rate	H/M/L	CMM	16 / 14 / 12	18 / 16 / 14			
Plasma air purif	fying filter			-			
Piping Connection	Liquid	mm(inch)	Ø6.35(1/4)	Ø9.52(3/8)			
	Gas	mm(inch)	Ø12.7(1/2)	Ø15.88(5/8)			
	Drain(ID)	mm		6			

Accessories

Model		URNU18GVJA2	URNU24GVJA2			
	Without case(1 contact point)	PQDSA				
Dry Contact	With case(1 contact point)	PQDSB/ PQDSB1				
	With case(2 contact point)	PQDSBC				



- •ARNU07GCEA2
- •ARNU09GCEA2
- •ARNU12GCEA2
- •ARNU15GCEA2
- •ARNU18GCFA2
- •ARNU24GCFA2



Floor Standing with Case



•ARNU07GCEU2

- •ARNU09GCEU2
- •ARNU12GCEU2
- •ARNU15GCEU2
- •ARNU18GCFU2
- •ARNU24GCFU2



Floor Standing without Case



Specifications

		ARNU07G CE A2	ARNU09G CE A2	ARNU12G CE A2	ARNU15G CE A2	ARNU18G CF A2	ARNU24G CF A2		
	C 1:	kW	2.2	2.8	3.6	4.5	5.6	7.1	
o	Cooling	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
Capacity	11	kW	2.5	3.2	4.0	5.0	6.3	8.0	
	Heating	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	
5	Cooling	W		30 8					
Power Input	Heating	W		30 8					
Power Supply Ø, V, Hz		1, 220~240, 50							
Dimensions(Wx	DxH)	mm	1067x203x635					345x203x635	
Weight		kg	27				34		
Noise level		dBA±3	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37	
Air flow rate	H/M/L	CMM	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10 / 9.5	16 / 14 / 12	18 / 16 / 14	
Plasma air purifying filter									
Piping Connection	Liquid	mm(inch)		Ø6.35(1/4)					
	Gas	mm(inch)		Ø12.7(1/2)					
	Drain(ID)	mm			1	2			

Accessories

Model		ARNU07GCEA2 ARNU09GCEA2	ARNU12GCEA2	ARNU15GCEA2	ARNU18GCFA2	ARNU24GCFA2		
	Without case(1 contact point)	PQDSA						
Dry Contact	With case(1 contact point)	PQDSB/ PQDSB1						
	With case(2 contact point)	PQDSBC						

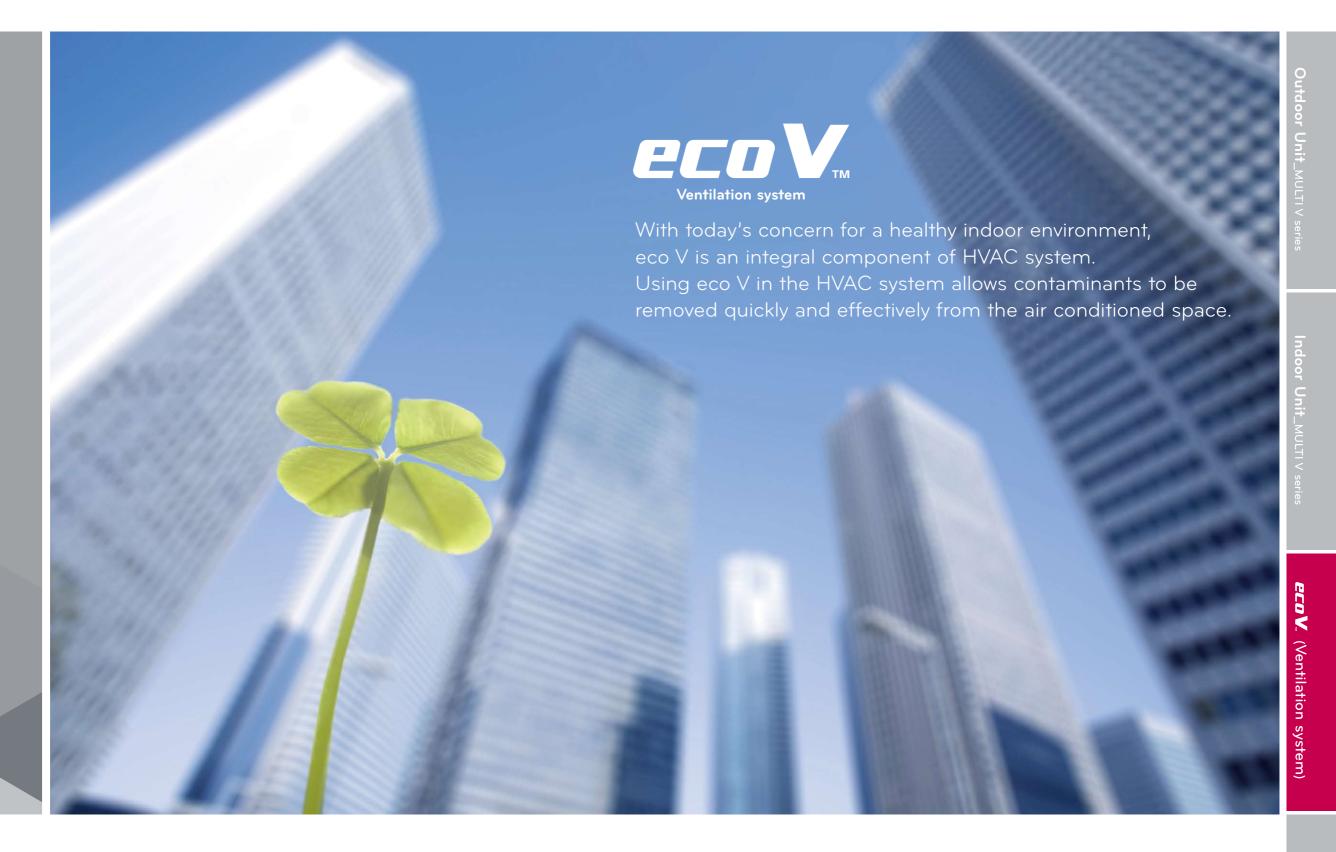


Specifications

		ARNU07GCEU2	ARNU09G CE U2	ARNU12G CE U2	ARNU15G CE U2	ARNU18G CF U2	ARNU24G CF U2		
	C 1:	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	Cooling	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
Capacity	11	kW	2.5	3.2	4.0	5.0	6.3	8.0	
	Heating	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	
Danier In and	Cooling	W		3	0		8	0	
Power Input	Heating	W		30 80					
Power Supply Ø, V, Hz		1, 220-240, 50							
Dimensions(Wx	DxH)	mm	978x190x639					56x190x639	
Weight		kg	20				27		
Noise level		dBA±3	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37	
Air flow rate	H/M/L	CMM	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10 / 9.5	16 / 14 / 12	18 / 16 / 14	
Plasma air purifying filter		-							
Piping	Liquid	mm(inch)		Ø6.35(1/4)					
	Gas	mm(inch)		Ø12.7(1/2)					
Connection	Drain(ID)	mm			1	2			

Model	Model		ARNU09GCEU2	ARNU12GCEU2	ARNU15GCEU2	ARNU18GCFU2	ARNU24GCFU2
	Without case(1 contact point)	PQDSA					
Dry Contact	With case(1 contact point)	PQDSB/ PQDSB1					
	With case(2 contact point)	PQDSBC					





72 Energy Recovery Ventilator

78 Energy Recovery Ventilator with DX Coil



Energy Recovery Ventilator

High Efficiency Heat Exchanger

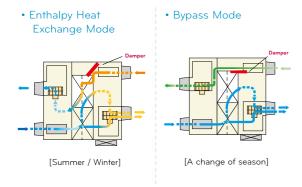
Efficiency and comfort is ensured by the high-efficiency energy recovery central core which recovers energy from the indoor air and transfers it to the fresh incoming air without mixing airstream.





Bypass Ventilation

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



Tuning

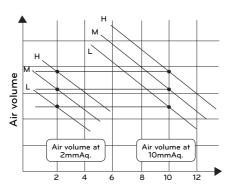
: (External Static Pressure Control)

Individual air volume control (Supply&Exhaust). Generally, when External Static pressure increases air volume decreases. But by controlling the RPM of BLDC Motor E.S.P is changeable. E.S.P. control provides regired constant air volume irrespective of E.S.P.

Desired E.S.P. can also be set through LCD wired remote. Setting of the desired E.S.P. gives required combination of E.S.P. and airflow.

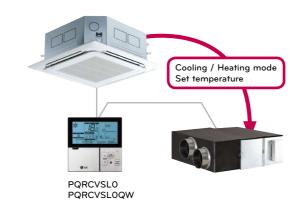
So, air volume is kept constant for various duct work system. All **ecoV**, units feature BLDC Motor.

E.S.P Control



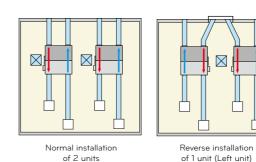
Interlocking with Air Conditioning System

- It is able to install the ventilation system being interlocking with the air conditioner. It can be also controlled individually or integral with the air condition.
- This function can be operated when connecting with specified Remote controller.

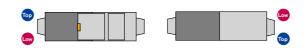


Flexibility of Installation

It's possible to install the opposite direction of upper and lower part. It needs the only one inspection hole.

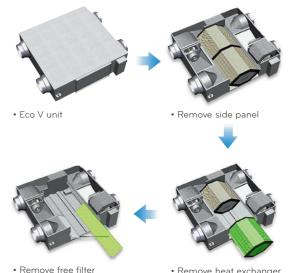


Inspection hole



Easy Cleaning and Changing Filter

Door attached side panel and slide removable Enthalpy heat exchanger filter can be changed without additional maintenance.

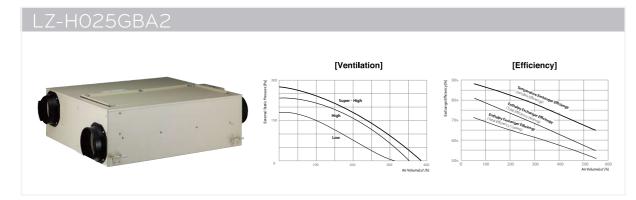


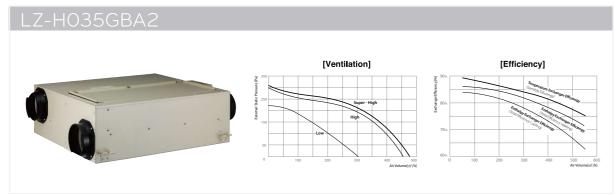
• Remove heat exchanger

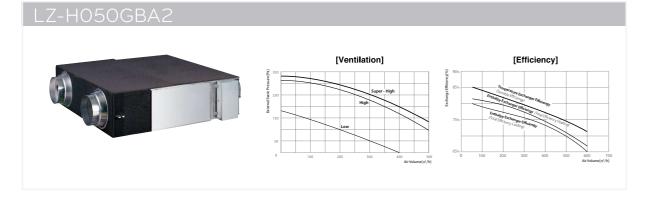


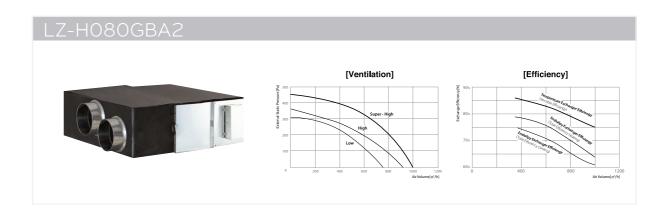
Feature

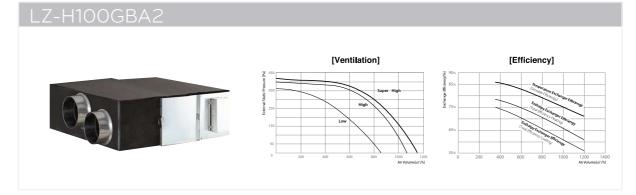
- High Efficiency Heat Exchange
- Bypass Ventilatio
- Flexibility of Installation
- Easy Cleaning and changeable Filt
- BLDC Fan Motor
- Linear E.S.P Control by remote controlled

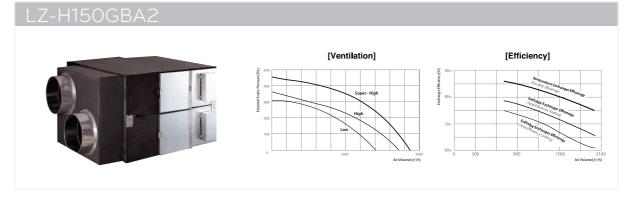


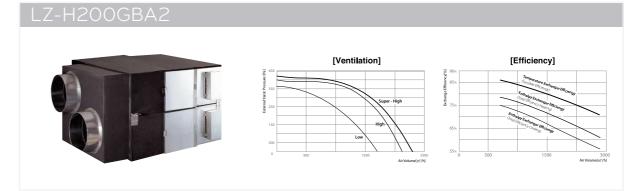












Energy Recovery Ventilator



Specifications

ltem		Unit	LZ-H025GBA2	LZ-H035 GBA2	LZ-H050GBA2
Nominal Capacity		CMH(CFM)	250(147)	350(206)	500(294)
Power Supply		ø,V,Hz	1, 220-240, 50-60	1, 220-240, 50-60	1, 220-240, 50-60
Step		-	SUPER-HIGH / HIGH / LOW	SUPER-HIGH / HIGH / LOW	SUPER-HIGH / HIGH / LOW
Current	SH/H/L	Amps	1.04/0.97/0.7	1.73/1.58/0.77	1.92/1.58/0.79
Power Input	SH/H/L	W	110/105/75	200/180/80	230/220/85
Power Input Air Flow External Static Pressure	SH/H/L	CMH(CFM)	250/250/150(147/147/88)	350/350/210(206/206/124)	500/500/320(294/294/124)
External Static Pressure	SH/H/L	Pa(In.wg)	150/130/110(0.60/0.52/0.44)	170/150/100(0.68/0.60/0.40)	150/100/50(0.60/0.40/0.2)
7 Temperature Exchange Efficiency	SH/H/L	%	80/80/85	83/83/87	75/75/79
Enthalpy Exchange Efficiency	Heating(SH/H/L)	%	70/70/78	80/80/85	72/72/77
	Cooling(SH/H/L)	%	64/64/68	78/78/83	70/70/75
Noise Level(Sound Level, 1.5m)	SH/H/L	dBA	32/28/21	33/28/23	34/32/25
Step		-	- /	- / -	SUPER-HIGH / HIGH / LOW
Current	SH/H/L	Amps	- /	- / -	1.92/1.58/0.79
Power Input	SH/H/L	W	- / - / -		230/220/85
Power Input Air Flow	SH/H/L	CMH(CFM)	- / - / -		500/500/320(294/294/124)
External Static Pressure	SH/H/L	Pa(In.wg)	- / - / -		150/100/50(0.60/0.40/0.2)
Temperature Exchange Efficiency	SH/H/L	%	-/-/-		
External Static Pressure Temperature Exchange Efficiency Temperature Exchange Efficiency	Heating(SH/H/L)	%		-/-/-	
	Cooling(SH/H/L)	%		-/-/-	
Noise Level(Sound Level, 1.5m)	SH/H/L	dBA	- /	- / -	34/32/25
Heat Exchanger	Туре	-		Crossflow	
Weight		kg(lb)	32(70.5)	44(97)
Dimension	WxHxD	mm(inch)	750x250x680(2	9.52x9.84x26.77)	988x273x1014(38.9x10.75x39.9a
Duct work	Qty	EA		4	
	Size(Ø)	mm(inch)	Ø150((Ø5.91)	Ø200(Ø7.87)
Supply Air Fan	Qty	EA		1	
	Туре	-		Direct-Drive	
xhaust Air Fan	Qty	EA		1	
	Туре	-	Direct-Drive		
ilters	Qty	EA		2	
	Туре	-		Cleanable	
	Size(WxHxD)	mm(inch)	600x10x150(2	3.62×0.39×5.91)	855x10x166(33.66x0.39x6.54)
Remote Controller				PQRCVSL0 / PQRCVSL0QW	
Dry Contact				PQDSB / PQDSB1	

Notes:

1. eco mode - Enthalpy Heat Recovery Ventilation mode 2. 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.

Energy Recovery Ventilator

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Specifications

				LZ-H080GBA2	LZ-H100GBA2	LZ-H150GBA2	LZ-H200GBA2	
No	ominal Capacity CMH(CFM)			800(471)	1000(589)	1500(883)	2000(1177)	
Po	ver Supply		Ø,V,Hz	1, 220-240, 50-60	1, 220-240, 50-60	1, 220-240, 50-60	1, 220-240, 50-60	
	Step		-	SUPER-HIGH / HIGH / LOW	SUPER-HIGH / HIGH / LOW	SUPER-HIGH / HIGH / LOW	SUPER-HIGH / HIGH / LOW	
	Current	SH/H/L	Amps	2.77/2.16/1.44	3.41/2.91/1.76	5.6/5.4/2.9	6.8/5.9/3.6	
Ф	Power Input	SH/H/L	W	360/370/165	470/385/210	720/540/340	930/770/420	
lod	Air Flow	SH/H/L	CMH(CFM)	800/800/660(471/471/388)	1000/1000/800(589/589/471)	1500/1500/1200(883/883/706)	2000/2000/1600(1177/1177/942)	
V Mode	External Static Pressure	SH/H/L	Pa	200/110/60(0.80/0.44/0.24)	160/90/50(0.64/0.36/0.20)	200/110/60(0.80/0.44/0.24)	160/90/50(0.64/0.36/0.20)	
eco/	Temperature Exchange Efficiency	SH/H/L	%	79/79/82	75/75/78	79/79/82	75/75/78	
ĕ	Enthalpy Exchange Efficiency	Heating(SH/H/L)	%	70/70/75	66/66/71	70/70/75	66/66/71	
		Cooling(SH/H/L)	%	65/65/70	61/61/66	65/65/70	61/61/66	
	Noise Level(Sound Level, 1.5m)	SH/H/L	dBA	36/34/30	37/35/31	39/37/33	39/37/33	
	Step		-	SUPER-HIGH / HIGH / LOW	SUPER-HIGH / HIGH / LOW	SUPER-HIGH / HIGH / LOW	SUPER-HIGH / HIGH / LOW	
	Current	SH/H/L	Amps	2.77/2.16/1.44	3.41/2.91/1.76	5.6/5.4/2.9	6.8/5.9/3.6	
Ф	Power Input	SH/H/L	W	360/370/165	470/385/210	720/540/340	930/770/420	
lod	Air Flow	SH/H/L	CMH(CFM)	800/800/660(471/471/388)	1000/1000/800(589/589/471)	1500/1500/1200(883/883/706)	2000/2000/1600(1177/1177/942	
3ypass Mode	External Static Pressure	SH/H/L	Pa	200/110/60(0.80/0.44/0.24)	160/90/50(0.64/0.36/0.20)	200/110/60(0.80/0.44/0.24)	160/90/50(0.64/0.36/0.20)	
Sec	Temperature Exchange Efficiency	SH/H/L	%	-/-/-				
B.	Enthalpy Exchange Efficiency	Heating(SH/H/L)	%	-/-/-				
		Cooling(SH/H/L)	%	-/-/-				
	Noise Level(Sound Level, 1.5m)	SH/H/L	dBA	36/34/30		37/35/31		
He	at Exchanger	Туре	-		Cross	flow		
We	ight		kg(lb)	60((132)	140(308)	
Dir	nension	WxHxD	mm(inch)	1062x365x1140)(41.9x14.4x44.9)	1313x737x1140(51.7x29.0x44.9)	
Du	ct work	Qty	EA	4		4+2		
		Size(Ø)	mm(inch)	Ø250	(Ø9.84)	Ø250(Ø9.84)+Ø350(Ø13.77)		
Su	pply Air Fan	Qty	EA		1		2	
		Туре	-		Direct-	:-Drive		
Exl	aust Air Fan	Qty	EA		1	2		
Type -		Direct-Drive						
Filt	ers	Qty	EA		2		4	
Type - Size(WxHxD) mm(inch)			Clean	able				
		mm(inch)	1056x10x212.5(41.57x0.39x8.37) 1056x10x212.5(41.57x0.39x8.3			41.57x0.39x8.37)		
Re	note Controller			PQRCVSL0 / PQRCVSL0QW				
Dry	Contact			PQDSB / PQDSB1				

1. eco mode - Enthalpy Heat Recovery Ventilation mode 2. 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.



Provide cool (Warm) Fresh air

LG Heat Recovery Ventilator with DX coil can be used just like indoor unit.

So we can prevent cold draft when fresh air is coming to indoor by cooling incoming air in summer season or heating incoming air in winter season with this ventilator connected with Multi V outdoor.

This function can provide comfortable indoor condition for tenants.

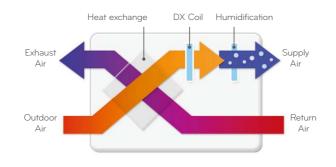




Total Air conditioning Solution

LG Energy Recovery Ventilator with DX coil can be used as Total Air conditioning Solution.

It match intake fresh air to indoor condition with Heat exchanger and DX coil connected with Multi V outdoor. In summer season, this unit controls indoor condition to cool and dehumidify incoming air and in winter season, it provides warmer fresh air by heating and humidifying incoming air.



Interlocking with Multi V

LG Energy Recovery Ventilator with DX coil can be used with interlocking function.

It can be controlled by wired remote controller interlocking with Multi V indoor units. So it control its operating mode (cooling or heating mode) according to setting temperature and Outdoor temperature.





Feature

- High Efficiency Heat Exchanger
- Interlocking with MULTI V
- Humidification function
- BLDC Fan moto
- Linear E.S.P Control by remote controller

Energy Recovery Ventilator with DX Coil

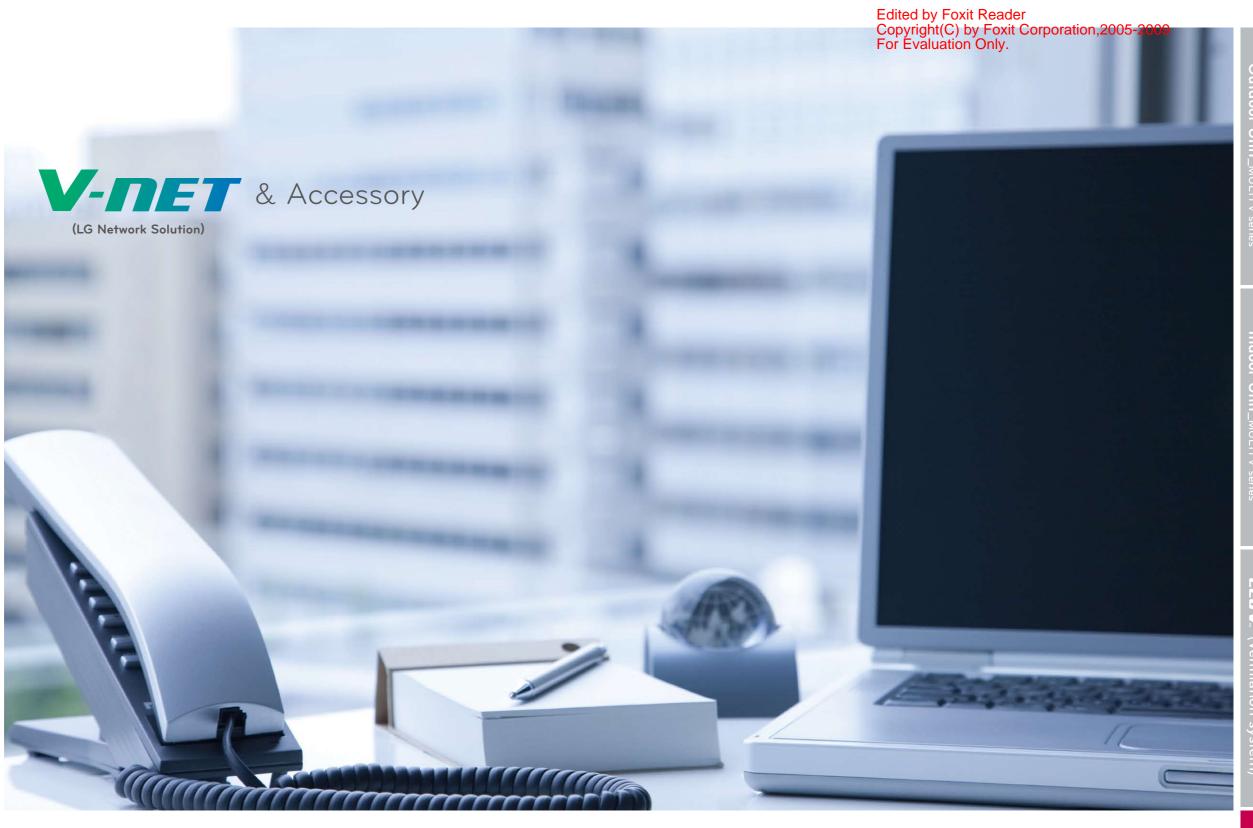


Specifications

			LZ-H050GXH0	LZ-H080GXH0	LZ-H100GXH0	LZ-H050GXN0	LZ-H080GXN0	LZ-H100GXN	
Fresh air conditioning	Cooling	kW	4.93	7.46	9.12	4.93	7.46	9.12	
load	Heating	kW	6.73	9.80	11.72	6.73	9.80	11.72	
Temperature	SH/H/L	%	07/07/07						
exchange efficiency			86/86/87	84/84/86	82/82/84	86/86/87	84/84/86	82/82/84	
Enthalpy exchange	Cooling SH/H/L	%	68/68/69	64/64/66	60/60/63	68/68/69	64/64/66	60/60/63	
efficiency	Heating SH/H/L	%	76/76/77	74/74/76	71/71/73	76/76/77	74/74/76	71/71/73	
Air flow rate	Heat exchange mode SH/H/L	CMH	500/500/440	800/800/640	1000/1000/820	500/500/440	800/800/640	1000/1000/820	
	Bypass mode SH/H/L	CMH	500/500/440	800/800/640	1000/1000/820	500/500/440	800/800/640	1000/1000/820	
Fan	External static pressure SH/H/L	Pa	160/120/100	140/90/70	110/70/60	180/150/110	170/120/80	150/100/70	
Humidifier	System		N	: Vatural evaporating Typ	e e	-			
	Amount	kg/h	2.7	4	5.4		-		
	Feed water pressure	MPa	0.02~0.49	0.02~0.49	0.02~0.49		-		
Noise Level	Heat Exchange mode	dB(A)	38/36/33	39/37/34	40/38/35	39/37/35	41/38/36	41/39/36	
	Bypass mode	dB(A)	39/37/34	40/38/35	40/38/35	39/37/35	41/38/36	41/39/36	
Refrigerant					R4	10A			
Power Supply Ø,V,Hz					1,220~)~240,50			
Power input	Heat exchange mode SH/H/L	kW	0.25/0.2/0.15	0.42/0.35/0.25	0.48/0.42/0.27	0.25/0.2/0.15	0.42/0.35/0.25	0.48/0.42/0.27	
(nominal)	Bypass mode SH/H/L	kW	0.25/0.2/0.15	0.42/0.35/0.25	0.48/0.42/0.27	0.25/0.2/0.15	0.42/0.35/0.25	0.48/0.42/0.27	
Nominal Running	Heat exchange mode SH/H/L	Α	1.5/1.3/1	2.5/2/1.5	3.6/3.2/2.3	1.5/1.3/1	2.5/2/1.5	3.6/3.2/2.3	
current (RLA)	Bypass mode SH/H/L	Α	1.5/1.3/1	2.5/2/1.5	3.6/3.2/2.3	1.5/1.3/1	2.5/2/1.5	3.6/3.2/2.3	
Dimensions	HxWxD	mm			365x16	67x1140			
Weight (Net)		kg		105			98		
Pipe connections	Liquid	mm	Ø6.35						
	Gas	mm	Ø12.7						
	Water	mm		Ø6.35			-		
	Drain	mm			Ø2	5.4			
Connection duct diamete	r	mm	Ø250						
Remote Controller					PQRCVSL0 /	PQRCVSL0QW			
Dry Contact (1 contact point)			PQDSB / PQDSB1						
Dry Contact (2 contact point)			PQDSBC						

Notes:

- 1. 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.



84 Remote Controller

87 Central Controller

10? Accessory



Remote Controller	Wired Remote Controller	Standard PQRCVSLO PQRCVSLOQW PZRCUSBO	PQRCUDSO (White) PQRCUDSOB (Blue) PQRCUDSOS (Silver)	PQRCVCLOG PQRCHCAO	QW(White,Simple) Q (Black, Simple) QW(White, Simple for Hotel) Q(Black, Simple for Hotel)		
	Wireless Remote Controller	PQWRH(C)DFO					
Central Controller	Simple Controller	Simple Central Controller PQCSB101S0 Function Controller PQCSB101S0 +PQCSC101S0	Scheduler PQCSB101SO+ PQCSD130A0 AC EZ PQCSZ250S0	BNU		PQNFB16A1 (Lo PQNFB17B0 (BA	
	AC Smart II, Option Kit & 128 Unit Expansion Kit	AC Smart II & Option Kit PQCSW320A1E PQCSE341A1 PQCSE342A	Expansion Kit 128 Expansion KIT	AHU Application kit	Control kit Comm. kit LG PRCKD20E PRCKA PRCKD40E PRCKA		PATX13AOE PATX2OAOE PATX25AOE PATX35AOE PATX5OAOE
	ACP & AC Manager	PQCPA11A0E(Without PQCPB11A0E(With IO) PQCSS520A0E (AC N)	DO Kit		A1 / PMNFP14A0 A0 / PSNFP14A0 TO	
Accessory		I I/Heat Selector, Suction Grille/Canva Guide, Heat Recovery Unit, Refrigera nch					

Standard Wired Remote Controller





PQRCVSLO

PQRCVSL0QW

The standard remote controller can be used by various means. It can control an indoor units or group of indoor units.

For Air conditioner FEATURES

	PQRCVSL0 / PQRCVSL0QW
Operating mode	On_Off / Fan speed / Mode / Temp.
On / Off LED	√
Room temp.	√
Fan / Plasma / Swirl / Heater	√
Vane control / Auto swing / Fan auto	✓
E.S.P function	√ .
Reservation	Weekly / Simple
Timer function	√
Child lock	J
Electric failure compensation	Max 3 hours
Wireless remocon receiver	√
Main/Sub setting of indoor units (For override function)	*
2 Controllers to 1 indoor units	*
Group and central control at the same time	*
Ventilation mode setting	V
Rapid ventilation	√
Power saving ventilation	√
Size(mm)	120 x 120 x 15
Backlight Unit	**



PQRCVSL0



PQRCVSL0QW

- \bigstar Applicable for MULTI V II and III series.
- ** Terminal Block included. (Applied to models produced since '10 Nov.)

 ** Compatible with SCAC models connected to wired remote controllers.

 ** Refer to each model PDB for applicable models.

For **ECD** (O series only)

	PZRCUSB0
On / Off LED	√
Ventilation mode setting	√
Rapid ventilation	✓
Power saving ventilation	√
Reservation	Weekly / Simple
Electric failure compensation	Max 2 hours
Child lock	✓
Optional function	Plasma / Heater / Humidifier / Operating air volume



Edited by Foxit Reader Copyright(C) by Foxit Corporation,2005-2009 For Evaluation Only. Deluxe Wired Remote Controller

- •PQRCUDS0
- •PQRCUDSOB
- •PQRCUDSOS



With the future-oriented design more suitable for the high-end interior, the deluxe wired remote controller makes a perfect match with interior.

FEATURES

	PQRCUDSO / PQRCUDSOB / PQRCUDSOS
Operating mode	On_Off / Fan speed / Mode / Temp.
Touch screen / LCD back_light	√ .
Room temp	√ .
Fan / Plasma / Swirl / Heater	√ ·
Vane control / Auto swing	√ .
E.S.P function	√ .
Reservation	Weekly / Simple
Timer function	√ .
Child lock	√

*Refer to each model PDB for applicable models.







PQRCUDS0 (White)

PQRCUDSOB (Blue)

PQRCUDSOS (Silver)

Simple Wired Remote Controller



- •PQRCHCAOQ(Black)
- •PQRCHCA0QW (White)

user can control air conditioner easily.



PQRCVCL0Q(Black) PQRCVCL0QW(white) Simple

The simple wired remote controller with handy design is suitable for hotel or office applications because



PQRCHCA0QW(White) PQRCHCA0Q(Black) Simple For Hotel

•PQCSB101S0

Max. no. of indoor units

Malfunction indicator

Individual control

Lock function

Mode change

Dimension(mm)

Power(V)

For LGAP applied models FEATURES

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For Evaluation Only.
Simple Central Controller

PQCSB101S0

16 indoor units

On_Off control

Total / Individual

Cooling / Heating

LED lamp 120x120x20

DC 10V



Simple and easy central control for 16 indoor units is made by this controller, a distinctive product.

FEATURES

	PQRCVCLOQ / PQRCVCLOQW	PQRCHCA0Q / PQRCHCA0QW
Operation mode	On_Off / Fan speed / Mode / Temp.	On_Off / Fan speed / Temp.
Room temp	√ .	√
Child lock	√ .	√
Mode change	Cooling / Heating / Fan / Dehumidify / Auto	Only Change-able by Central Controller
Back Light	J	√

^{*} Compatible with SCAC models connected to wired remote controllers.

Wireless Remote Controller

PQWRHDF0 PQWRCDF0



PQWRH(C)DF0

The wireless remote controller allows the operation air conditioner from any corner of the room.

FEATURES

•PQWRH(C)DF0

	PQWRH(C)DF0
Operating mode	On_Off / Fan speed / Mode / Temp
Room temperature checking	√
Chaos swing / Jet cool	√
On_Off timer	√
Sleep mode auto	√
Main / Sub setting of indoor units (For override function)	*
ΔT setting (for Auto Changeover)	MULTI V SYNC II /MULTI V III Heat Recovery

★Applicable for MULTI V II and III series. **Refer to each model PDB for applicable models.



14

Type CST, SRAC, CVT, Duct, Floor Standing

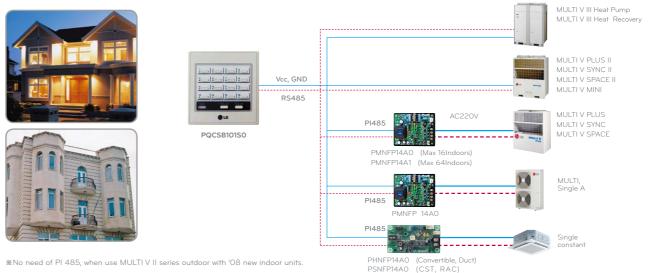
MODEL NAME & APPLICABLE MODELS

C/O

NAME AND DESCRIPTION OF THE SYSTEM

On/Off Display LED (TOTAL 16EA)) Individual button On pressing individual on/off button. Control On/OFF of a single unit - Cool / Dry / Fan : Green. 50|60|70|80| - Error mode : Red 'TOTAL Off' button Stop all linked units sequentially Power indication LED 13 14 15 16 - On : Red(Heating), Green(Cooling) 'TOTAL On 'button - Off : no signal Operate all linked units sequentially - Error mode : blinking with red colo

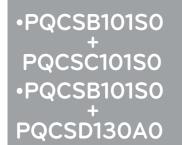
COMBINATION



*No need of PI 485, when use MULTI V II series outdoor with '08 new indoor units.

^{*} Refer to each model PDB for applicable models

Function Controller & Scheduler





PQCSB101S0+PQCSC101S0
SCC + Function Controller



PQCSB101S0+PQCSD130A0
SCC + Scheduler

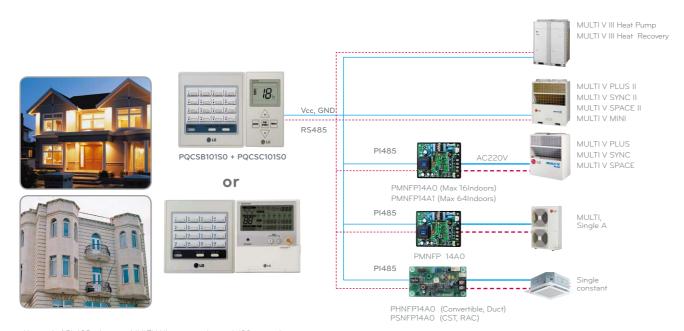
Apart from on/off control, operation mode, fan speed, schedule, additional functions can be displayed and easily controlled.

For LGAP applied models **FEATURES**

	PQCSB101S0+PQCSC101S0	PQCSB101S0+PQCSD130A0
Max. no. of indoor units	16 indoor units	16 indoor units
Individual control	On_Off / Fan speed / Mode / Temp.	On_Off / Fan speed / Mode / Temp.
Lock function	Total / Individual	Total / Individual
Mode change	Cooling / Heating / Fan	Cooling/Heating/Dehumidification/Fan/Auto
Malfunction indicator	Error display on LCD	Error display on LCD
Schedule	-	Weekly
Dimension(mm)	(120x120x20)+(70x120x14)	(120x120x20)+(120x133x20)
Power(V)	DC 10V	DC 10V

^{%1} function controller or scheduler can be combined with 8 simple central controllers.

COMBINATION



 $\ensuremath{\mathrm{\#}}\xspace$ No need of PI 485, when use MULTI V II series outdoor with '08 new indoor units.

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AC EZ

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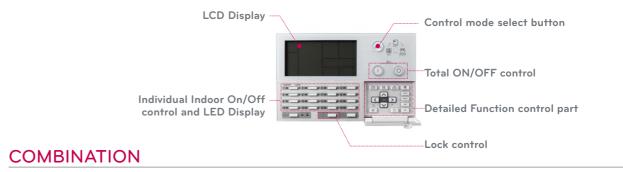
•PQCSZ250S0

Apart from On/Off control, operation mode, fan speed, scheduling, additional functions can be displayed and easily controlled.

For LGAP applied models FEATURES

	PQCSZ50S0
Max. Indoor unit to control	32 Indoor Units
Individual Control	On_Off/Operation Mode/Fan Speed/Temp
Lock function	Central
Mode change Cooling/Heating/Fan/Dehumidification/Auto	
Schedule 8 event schedule	
Ventilation control	On,Off/Ventilation Mode/Rapid Ventilation
Display(All Indoor status indication)	operation, Set temp, Room Temp, Schedule
Dimension(mm)	190x120x17
Power(V) DC 12V	

NAME AND DESCRIPTION OF THE SYSTEM









*No need of PI 485, when use MULTI V II series outdoor with '08 new indoor units.

88 /8

•AC Smart II: PQCSW320A1E

- Option Kit: PQCSE341A0 PQCSE342A0
- •128unit Expansion Kit: PQCSE44U0

AC Smart II, Option Kit & 128 Unit Expansion Kit

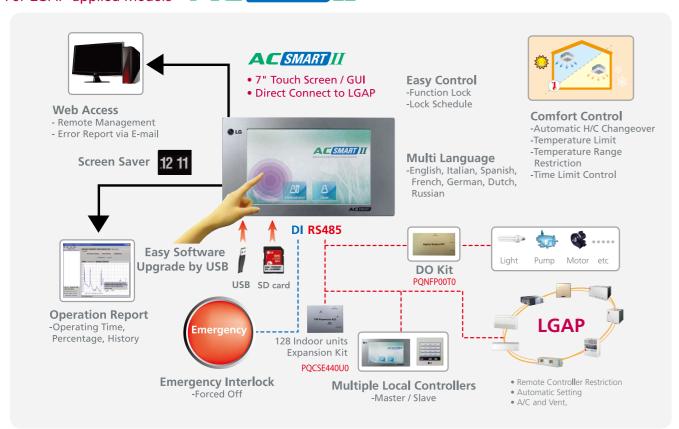




For the mid sized buildings up to 64 or 128 indoor units can be controlled and monitored by touch screen central controller.

It's possible to control and monitor the air conditioning system through web access, anywhere with PC.

For LGAP applied models ACSMART



FEATURES

Schedule Wizard Function

Schedule pattern wizard is the process of configuring the operation of the unit in weekly or daily pattern. The pattern created through the schedule pattern wizard can be applied to the Group as a schedule through schedule wizard to be described in the next section.



3. Enter schedule pattern name

New GUI

It is more easy to use and control the products.







AWHP / Eco-V DX

It is possible to control the unit (Indoor unit, ventilator, On/Off, AWHP, Eco-V DX) and register the units.



Option Kit control

AC Smart II additionally provides various convenient option functions for the users to use. (You must purchase Option Kit separately.)



AC Smart II additionally provides various convenient option functions for the users to use. These additional functions are provided in SD card format. When the user inserts the SD card to the main unit of the AC Smart II, the option function can be activated and used.

Option Function

- Web schedule + Power consumption statistics function (PQCSE342A0) Web schedule function (PQCSE341A0)

Web based schedule setting function

By using the web server function of AC SMART II, you can set and apply the schedule of AC SMART II even om remote locations. The administrator can manage the schedule of AC SMART II through the network free from where he or she is and reduce any unnecessary operations of the unit by using the schedule functions.

Power consumption statistics function

You can view the power consumption information of the air conditioner. The power consumption is provided in various methods including total usage, usage by period, monthly/daily usage etc. By using the statistics information, the administrator can effectively analyze and manage the energy usage. To use the power consumption sta tistics function, the PDI and watt-meter to measure the power consumption must be connected to AC SMART II





ACP

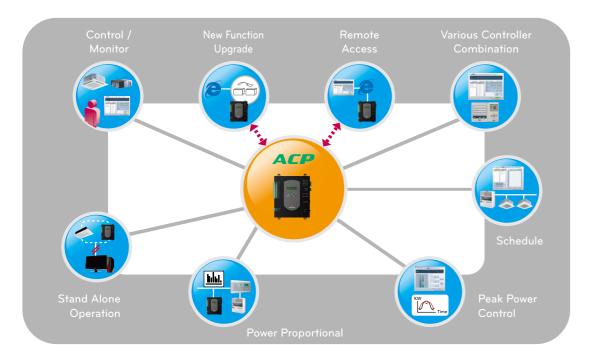


PQCPA11A0E (Without IO)PQCPB11A0E (With IO)

Through embedded web control function in ACP one can control and monitor various functions of air conditioner such as temperature setting, schedule, peak power control, etc.

For LGAP applied models



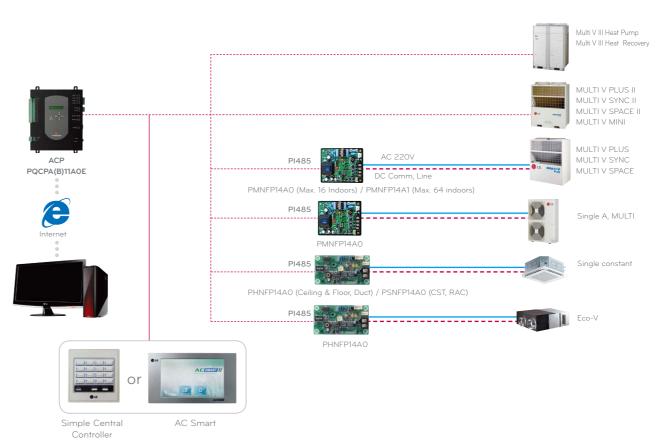


FEATURES

	PQCPA(B)11A0E
Max.no. of indoor units	256 indoor units
Control / Monitoring	√
Schedule management	√ .
Lock function	Temperature
Temperature range restriction	
Temperature limit function	
Auto Changeover function	•
History function	Monitoring
Peak control	√
PDI monitoring	Need of PDI
Interlocking function	•
Printing function	
Auto Address Setting Function	
Statistics function	√
Time limit function	
Eco V Dx Control	√
Peak Priority funtion	-
Cycle Data Monitoring	-

COMBINATION





AC Manager



•PQCSS520A0E

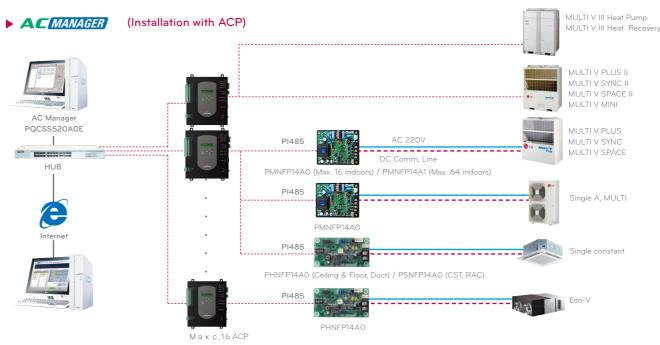
ACP & ACMANAGER



FEATURES

	PQCPA(B)11A0E+PQCSS520A0E
Max.no. of indoor units	4,096 indoor units(16 ACP)
Control / Monitoring	√
Schedule management	√
Lock function	Mode/Temp/Fan speed/Total
Temperature range restriction	√
Temperature limit function	√
Auto Changeover function	√
History function	Monitoring & Error history
Peak control	√
PDI monitoring	Need of PDI
Printing function	√
Statistics function	√
Time limit function	-
Eco V Dx Control	-
Peak Priority function	-
Cycle Data Monitoring	-
Interlocking function	Only PQCPB11A0E
AHU Control Function	
AWHP	
DO Kit	

COMBINATION



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ACP & ACMANAGER APPLICATION



BNU-LW Gateway (Building Network Unit-LONWORKS®)



•PQNFB16A1

Easy interface between BMS and LG Air-conditioner

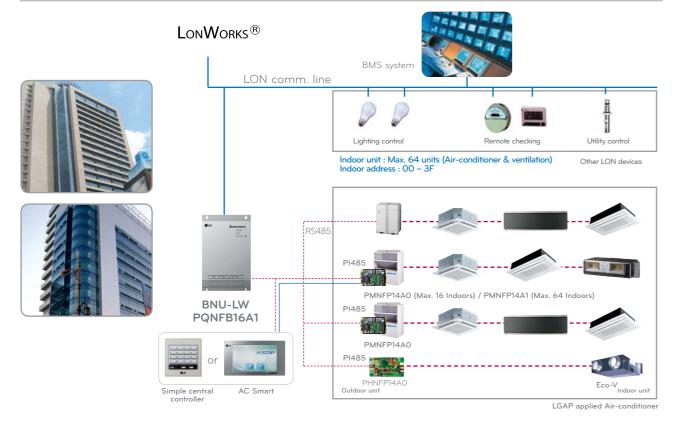
- Independence of BMS under the standard BMS
- Operation system based on LN\\$\(\omega_N W_{ORKS} \)\(\text{Network Service} \)

For LGAP applied models FEATURES

- Connection to LonWorks® using LONTALK protocol and LG Air-conditioner protocol
- Process ability
- 64 units (including indoors and ventilators)
- Valid address for each unit : 0x00 ~ 0x3F
- Self installation verification function using internet (Web server included)
- Setting gateway
- Diagnosis of communication status on LG Air-conditioner network
- Connection to remote total management system (LG system)

Controlling	Monitoring items				
On/Off command	On/Off status report				
Operation mode setting	Operation mode status report				
Fan Speed setting	Fan Speed status report				
Lock setting	Lock status report				
Air flow setting	Air flow status report				
Set temp. setting	Set temp. status report				
User mode setting (for only ventilator)	Current Space temp. status report				
	Error status report				
	User mode status report				
	(for only ventilator)				

COMBINATION



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BNU-BN Gateway

(Building Network Unit-

BACnet



•PQNFB17B0

Easy interface between BMS and LG Air-conditioner

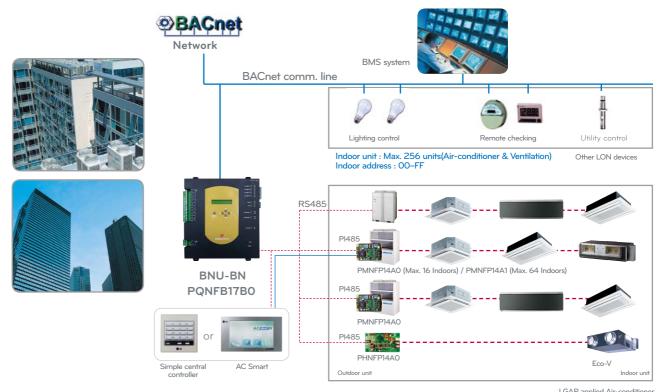
- Independence of BMS under the standard BMS.
- Operation system based on BACnet Service.

For LGAP applied models FEATURES

- Through embedded web control function in BACnet one can access the airconditioner and external through internet.
- It can control 256 indoor units. (A/C or Ventilator)
- External devices such as fire alarm, motion detector can be connected to gateway and their function can be interlinked with airconditioner operation.

Monitoring items				
On/Off status report				
Operation mode status report				
Fan Speed status report				
Lock status report				
Air flow status report				
Set temp. status report				
Current Space temp. status report				
Error status report				
User mode status report				
(for only ventilator)				

COMBINATION



LGAP applied Air-conditioner





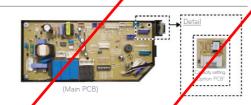
•PUCKA9

To connect air handling un 15.Deleted. Because nnectable capacity is f this model is not for Multi V

SPECIFICATION

				POWER				
/	Model Name	NZT	Gross	W	Н	D	TOWER	
Comm.Ki	PUCKA0	2.5	4	280	135	280	220~240V, 50/6	OHz, 1Ph

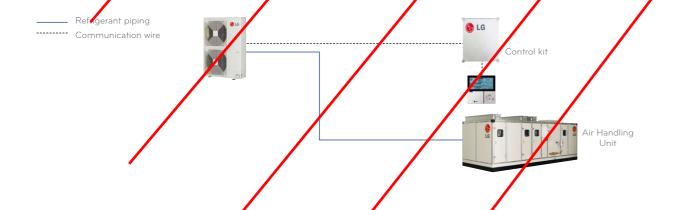
according to below table (Basic 'Option PCB is for 24k Btu/h)



option PCB P/No	Capacity (Btu/k)	Allowed heat exchanger Volume (dm³)	Allowed heat exchanger capacity (kW)	Air flow rate (CMM)	outdoor Unit Model Name
EBR65102902	18K	0.76~0.94	5~6	18, 21	AUUH186D / AUUW186D
EBR65102903	24K	0.88~1.08	6~7	20~23	AUUH246D / AUUW246D
EBR65102904	30K	0.88~108	7~9	22~26	AUUH306D / AUUH306D / AUUW306D2
EBR65102975	36K	0.83~1.08	9~11	25~32	AUUH366D / MUH368D / AUUW366D / AUWW368D
EBR65102906	42K	2.88~1.08	11~13	31~35	AUUW426D / AUUW428D
EBR65102907	48K	1.23~1.51	13~16	33~45	AUUH488D / AUUW486D / AUUW4888
EBR65102908	60K	1.93~2.35	20~24	42~55	AUUV 608D / AUUW 606D / AUUW 608D

^{*} Saturated Suction Temperature (SST) = 6°c, SH (Superheat)=5k, Air Temperature = 27°c DB / 19°c WB

WIRING DIAGRAM



Edited by Foxit Reader Copyright(C) by Foxit Corporation,2005-2009 AHU Comm. kit & EEV kit





To connect air handling unit for mid & large space and supply fresh air. Connectable capacity is from 18 kbtu/h ~60kbtu/h.

SPECIFICATION

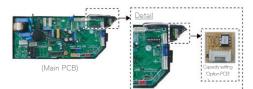
•PRCKAO

•PRLK048A0

			t(kg)	0	Dimension(mm)	POWER		
	Model Name	NET	Gross	W	Н	D	POWER	
Comm.Kit	PRCKA0	2.2	3.6	280	135	280	220 2407 507 011 151	
EEV Kit	PRLK048A0	3.1	3.6	404	83	217	220~240V, 50/60Hz, 1Ph	

SELECTION OF EVAPORATOR

• When selecting evaporator, Change 'Option PCB' in Control kit according to below table (Basic 'Option PCB is for 36k Btu/h)



option PCB P/No	Capacity (Btu/h)	Allowed heat exchanger Volume (dm³)	Allowed heat exchanger capacity (kW)	Air flow rate (CMM)
EBR52358907	28k	0.88~1.08	7~9	22 ~ 26
EBR52358908	36k	0.88~1.08	9~11	25~32
EBR52358909	42k	0.88~1.08	11~13	31~35
EBR52358910	48k	1.23~1.51	13~16	33~45
EBR52358911	76k	1.93~2.35	20~24	50~64
EBR52358912	96k	1.93~2.35	25~31	64~72

^{*} Saturated Suction Temperature (SST) = 6°C, SH (Superheat) = 5K, Air Temperature = 27°C DB / 19°C WB.

WIRING DIAGRAM



AHU Control kit



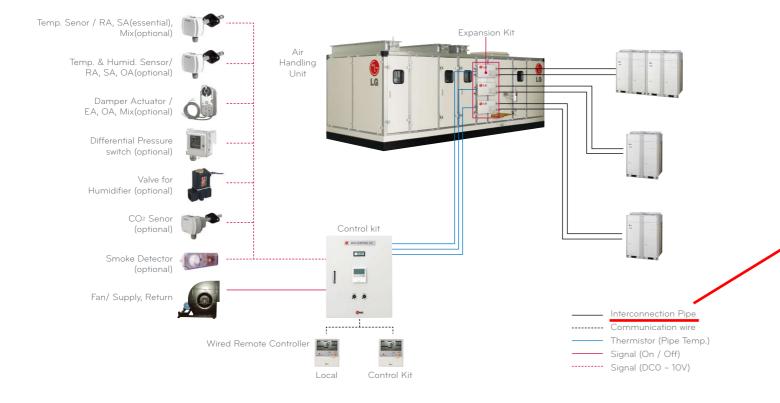
PRCKD20EPRCKD40E

AHU have functions like cooling, heating, humidification, Air cleaning & ventilation; providing Multi-solution to the consumer.

SPECIFICATION

		Weight(kg)		Dimension(mm)		mm)	POWER	POWER		
	Model Name	NET	NET	W	Н	D	POWER	FOV	VER	
Combact Kit	PRCKD20E	42.5	4.0	(00	750	205	220 2407 507 (011- 101-	AHU Controller ODU Comm. BCR	1~4 Set ODU Combine	
Control Kit	PRCKD40E	43.5	48	600	750	285	220~240V, 50/ 60Hz, 1Ph	Sensor Power Supply	5~8 Set ODU Combine	

1.4 SYSTEM LAYOUT



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Expansion Kit

- •PATX13A0E
- •PATX20A0E
- •PATX25A0E
- •PATX35A0E
- •PATX50A0E

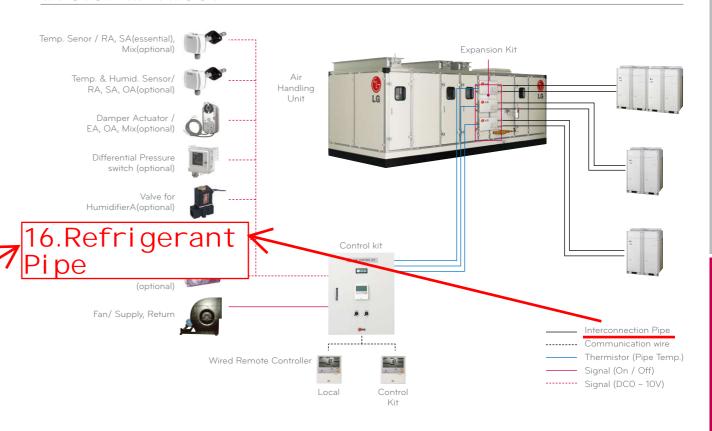


AHU have functions like cooling, heating, humidification, Air cleaning & ventilation; providing Multi-solution to the consumer.

SPECIFICATION

		Weight(kg)			Dimension(mm)	POWER	
	Model Name		Gross	W	Н	D	POWER
	PATX13A0E	5.6	6.9				• ODU Capacity : 8~16HP
	PATX20A0E	5.8	7.1	220	1/0	401	• ODU Capacity : 18~26HP
Expansion Kit	PATX25A0E	6.0	7.3	238	3 169	491	• ODU Capacity : 28~36HP
	PATX35A0E	6.2	7.5				ODU Capacity: 38~46HP
	PATX50A0E	8.5	10.0	291	192	561	• ODU Capacity : 48HP~56HP

1.4 SYSTEM LAYOUT



PDI



•PQNUD1S00

For the multi indoor units connected to an outdoor unit, the individual unit's and total system power consumption can be displayed on the device. This system can also be connected to a remote metering system.

POWER INDICATOR OVERVIEW

- This device displays the power consumed for each indoor air conditioner unit that shares an outdoor unit.
- The power consumed by each indoor unit connected with the joint power line is indicated on the device.
- The information of the power distributed can be sent on a real-time basis through the remote metering system.



3 Label indicating the locations of each indoor unit

FEATURES

- Accumulated total power consumption indicated
- Accumulated/Current power consumption of each indoor unit indicated.
- Accumulated power consumption by month indicated
- Max. connectable no. of indoor units : 64 indoor units
- 1 PDI per 1 outdoor unit
- Power failure-proof function : Data back up on EEPROM even if power turns off
- Connectable to PC based central controller
- Simple connection with the remote metering system (RS485 approach)
- Power distribution indication formula

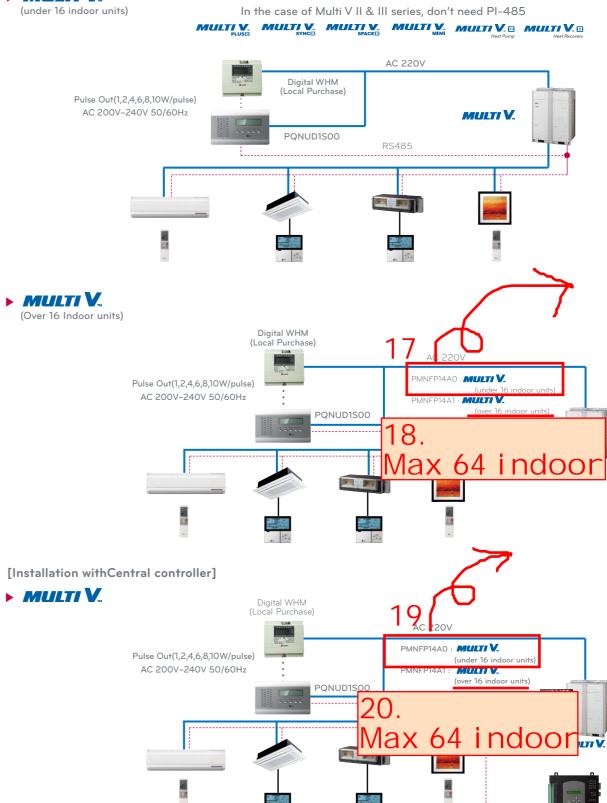


* Weight by room: Weight calculated based on the temperature set by room, mode and operating time.

COMBINATION

[Installation without Central controller]

► MULTI V.



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ACF

Dry Contact





It is connected between indoor units and external device, so it can be used for various purpose

FEATURES

•PQDSA(1)

•PQDSB(1)

•PQDSBC

	PQDSA/ PQDSB	PQDSA1/ PQDSB1	PQDSBC
Contact point	1 Control point	1 Control point	2 Control points
Power input	AC 220V from outside power source	AC 24V from outside power source	DC 5V&12V from indoor unit PCB
Voltage / Non voltage input	-	-	√
On_Off control	√	√	✓
Lock / Unlock	-	-	✓
Fan speed setting	-	-	√
Thermo off	-	-	√
Energy saving	-	-	√
Temperature setting	-	-	J
Error monitoring	√	√	√
Operation monitoring	√	√	J

 $\ensuremath{\mathbb{X}}$ Refer to each model PDB for applicable models.

*With case model: PQDSB(1), PQDSBC Without case model: PQDSA(1)













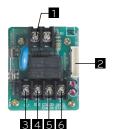


Motion Detect Sensor

Door Chek Sensor

System Structure

PARTS DESCRIPTION



1 CN-POWER : AC 220V / 24V

2 CN-CC : MAINPCB connector

3 CN-DRY(L): DRY CONTROLLER connector 4 CN-DRY(SIG) : DRY CONTROLLER connector

5 CN-DRY(ERROR CHECK) : ERROR check display connector

6 CN-DRY(OPER STATE) : Operation display connector

- 1 CN_INDOOR2 : Connector for Main <-> Dry Contact
- 2 CN_INDOOR1 : PI 485 Connector
- 3 CHANGE_OVER_SW: Switch for selecting junction signal Voltage(5V~12V) or Non Voltage
- 4 CN_CONTROL : Connector for input junction signal
- 5 CONTROL_MODE_SW: Switch for selecting control mode
- 6 SETTING_SW : Switch for selecting Dry Contact setting function
- 7 TEMP_SETTING : Switch for setting desired temperature
- 8 CN_OUT(O1,O2) : Terminal Block for displaying main operation 9 CN_OUT(E3,E4): Terminal Block for displaying main error
- 10 DISPLAY_LED: LED for displaying status of Dry Contact
- 11 RESET_SW : Reset Switch

Dry Contact





PQDSBNGCM1

It is connected between indoor units and external device, so it can be used for various purpose

FEATURES

1) Model name : PQDSBNGCM1

2) Specification

Dimensions: 105 X 78 X 35 mm

Applied Model : Multi V Plus II & Multi V III Function : Contact(Input) : 8 Contact Voltage/ Non_Voltage selectable

Contact(Output): 2 Contact(Operating, Error) Rotary Switch1 : Operating Set_Temp Selection Rotary Switch2 : Operating Logic Selection

3) Description

The product is specially designed for interface with other controller using dry contact communication.

STRUCTURE

Control Module E2 E2 E2

Dry Contact





PQDSBCGCD0

It is connected between indoor units and external device, so it can be used for various purpose

FEATURES

1) Model name: PQDSBCGCD0

2) Specification

Dimensions: 105 X 78 X 35 mm

Applied Model : Multi V Plus II & Multi V III

Function:

Contact(Input) : 2 Contact(Other operation selectable)

Contact(Output) : 2 Contact(Operating Error)

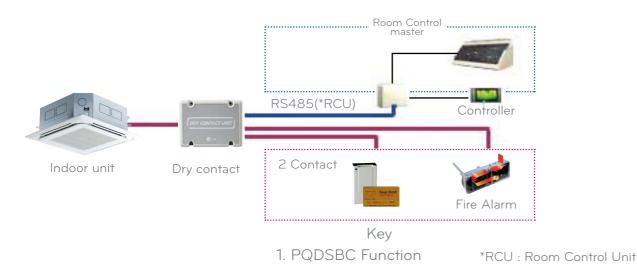
Pl485 Communication Mode Input: LGAP 485 Communication

Description

The product is specially designed for interface with other controller using dry contact communication or 485 communication

STRUCTURE

2.485 Communication Function



ODU Dry Contact

•PQDSBCDVM0



Dry contact for demand control

FEATURES

1) Model name: PQDSBCDVM0

2) Specification

Applied Model: Multi V III Series

Function:

- -Demand control (3 contact signal)
- -Demand control (Co-work with DDC)
- -ODU fan low speed control (Night low noise operation)
- -All Off
- -Error Output (Display)
- 3) Description

The product is specially designed for demand control.

Applied to Multi V III only

STRUCTURE MULTIVE



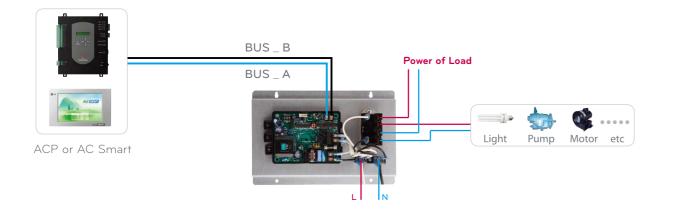
DO Kit



•PQNFP00T0

Do Kit is connected between ACP (AC Smart) and external devices. So An start and stop external devices such as light, pump, motor, etc.

WIRING DIAGRAM



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Cool/Heat Selector



•PRDSBM

This switch enables selection of heating, cooling or fan mode. So it can prevent that cooling & heating mixing error occurs during the change of season.

FEATURES

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



MODELS APPLIED



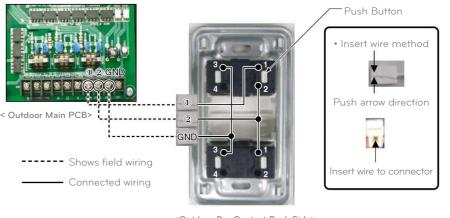






WIRING DIAGRAM

• Connect terminals (①, ②, GND) on the back side of the outdoor dry contact to terminals (①, ②, GND) of outdoor as show below.



<Outdoor Dry Contact Back Side>

**Communication line length can be maximum 300m, use communication line as thick as 1.25mm².

Suction Grille / Canvas



•PBSGB30

•PBSGB40

- •PBSC30
- •PBSC40

High flexibility for a wide variety of applications

FEATURES

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

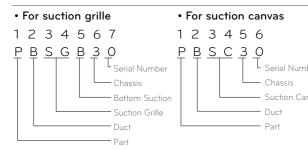
MODELS APPLIED TO

• Ceiling concealed duct _ Built-in type (refer PDB for applicable model)

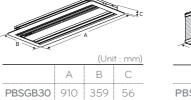
ACCESSORY MODEL NAME

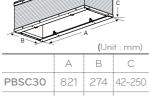
Туре	Model Name	Capacity (Btu/h)							
		7K	9K	12K	15K	18K	24K		
Grille	pbsgb30	1	1	√	√				
	pbsgb30 pbsgb40					√	√		
Canvas	pbsc30	1	1	V	√				
	pbsc40					√	√		

DETAILS OF MODEL NAME



DIMENSION





(OIIII.		
А	В	С
821	274	42~250
1100	274	42~250
		A B 821 274 1100 274

APPLICATION

For the suction grille:

- Suction panel with air filter (1EA)
- Suction panel fix bolt M5x18 (4EA)
- Installation manual (1EA)

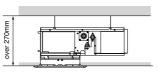
For the suction canvas :

- Air suction canvas (1EA)
- Screws for air suction canvas (4EA)
- Adjusting chain (4EA)
- Screws for adjusting chain (8EA)
- Installation manual (1EA)



	А	В	С
PBSC30	821	274	42~250
PBSC40	1100	274	42~250

PBSGB40 1188 359 56



Ventilation Kit (Fresh Kit) for **New Cassette**

- •PTVK410
- •PTVK420
- •PTVK430





PTVK410

PTVK420

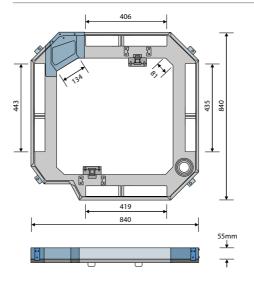
Ventilation kits (Fresh Kit) for New Cassette, New Multi V cassette and new Cassette for coming season.

ACCESSORY

- Installation Bracket
- Bolt
- Screw
- Installation manual



DIMENSION



MODELS APPLIED TO

• Ceiling Cassette - 4Way (TP,TN,TM)

Air Guide





Multi V Plus II Multi V III

Easy air discharge at odd places.

FEATURES

•PQAGA

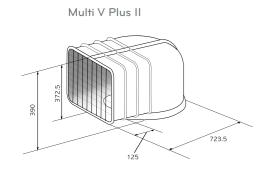
•PRAGX*SO

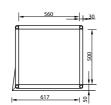
- Converts vertical discharge into horizontal discharge.
- Designed for outdoor discharge air.
- Direction of air discharge can be changed by simple installation.
- Installation flexibility

MODELS APPLIED TO

• MULTI V type, MULTI V II type, Single A (UY, UW Chassis), Multi V III(UX2, UX3)

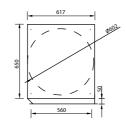
DIMENSION



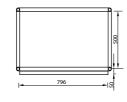


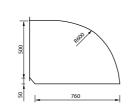
Multi V III(UX3)

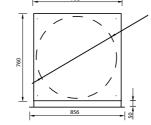




Multi V III(UX2)

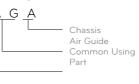






DETAILS OF MODEL NAME

Multi V Plus II 1 2 3 4 5 P Q A G A



Multi V III 1 2 3 4 5 6 7 8 P R A G X 3 S O



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APPLICATION











Multi V III(UX3)

Heat Recovery Unit

•PRHR021

- •PRHR031
- •PRHR041



(2 branch Unit)



(3 branch Unit)



(4 branch Unit)

FEATURES

- Max. 32 indoor units can be connected by module design. (Max 8 indoor units per a branch, In case of PRHR04
- Due to the automatic search algorithm for piping detection, easy installation
- Subcooling cycle in HR unit makes the system efficiency maximum.

MODELS APPLIED TO



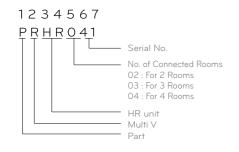




ACCESSORY MODEL NAME AND SPECIFICATION

Model Name			PRHR021	PRHR031	PRHR041	
Number of branches			EA	2	3	4
Max. connectable capac	ity of indoor ur	nits(Per branch/unit)	kW	14.1/28.2	14.1/44.8	14.1/56.4
Max. number of connect	table indoor un	its 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	20	22	24
Dimensions(WxHxD))			mm	801x218x617	801x218x617	801x218x617
Piping	Indoor	Liquid	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
connections	Unit	Gas	mm(inch)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Outdoor	Liquid	mm(inch)	9.52(3/8)	15.88(5/8)	15.88(5/8)
	Unit	Low pressure	mm(inch)	22.2(7/8)	28.58(11/8)	28.58(11/8)
		High Pressure	mm(inch)	19.05(3/4)	22.2(7/8)	22.2(7/8)
Power Supply			ø /V/Hz	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50

DETAILS OF MODEL NAME



DIMENSION

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

REDUCERS FOR INDOOR UNIT AND HR UNIT

Мос	dels	Liquid pipe	High pressure	Low pressure
Indoor uni	t reducer	OD9.52 06.35		OD15.88 Ø12.7
HR unit	PRHR021	OD9.52 Ø6.35	OD19.05 O15.88 O12.7	OD222 019.05 015.88 OD15.88 012.7
reducer	PRHR031/ PRHR041	OD15.88 012.7	OD28.58 022.22 019.25 OD19.05 015.88	OD222 019.05 015.88 OD15.88 012.7

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(Unit : mm)

INSTALLATION



Refrigerant charging Kit



•PRAC1

PROCEDURE

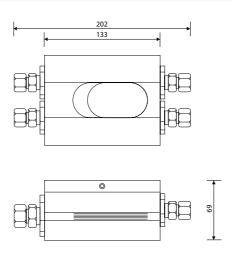
- Arrange manifold,capillary assembly, refrigerant vessel and scale
- Connect manifold to the gas pipe service valve of outdoor uint as shown in the figure.
- Connect manifold and Capillary tube. Use designated capillary assembly only.
 If designated capillary assembly isn't used, the system may get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

APPLICATION



* FDD : Fault Detect & Diagnosis

DIMENSION



ERROR CONTENTS ABOUT AUTO REFRIGERANT CHARGING FUNCTION

- "329": Temperature Range Error (In case that indoor unit or outdoor unit is out of range)
- "339": Low Pressure Descent Error (In case the system runs at low pressure limit for over 10 minutes)
- "349": Rapid refrigerant inflow (In case the liquid refrigerant flows in because of not using designated capil-lary assembly)
- "359": Instability Error (In case the high/low pressure target doesn't get satisfied for some time after the starting operation)

Cassette Cover

- •PTDCD
- •PTDCD1
- •PTDCM
- •PTDCQ



Maintains the ceiling elegance.

FEATURES

- Specially designed for indoor unit.
- Covers the side area of cassette.
- · Gives elegant looks.
- Light weight.
- Suitable when false ceiling is unavailable.

MODELS APPLIED TO

• Ceiling cassette - 4Way (TD, TD1, TH, TP, TN, TM, TQ, TR)

PARTS SUPPLIED

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

ACCESSORY MODEL NAME

Model Name	Front Panel
PTDCD	PT-CDO, PT-CD1, PT-HDO, PT-HD1
PTDCD1	PT-CDA1, PT-CDC1, PT-HDA1, PT-HDC1
PTDCM	PT-UMC
PTDCQ	PT-UQC

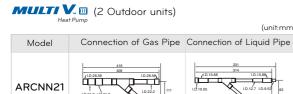
HEADER FOR CONNECTION OF INDOOR UNITS

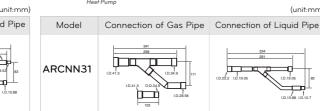
MULTIV. III MULTIV. SPACEII SYNCII

		(unit:mm)
Model	Gas Pipe	Liquid Pipe
4 branch ARBL054	10 015.88 10 010.77 10 015.88 10 015.88 10 015.88 10 015.78 10 015.88	10 06.85 10 06.85 10 06.82 10 07.27
7 branch ARBL057	12-0127 12-015-88 12-012-2 12-012-2 12-015-88 12-012-2 12-012-3 12	10 06.25 10 09.52 10 09.25 10 09.27 10 09.27 10 09.27
4 branch ARBL104	LD 015.80 LD 015.80 LD 029.59	1006.35 1006.52 1006.55

		(unit:mm)
Model	Gas Pipe	Liquid Pipe
7 branch ARBL107	10 015.88 10 015.88 0.0 005.88 10 005.88	10 08:35 10
10 branch ARBL1010	10 0% 10 00 10 10 00 10 10 00 10 10 00 10 10	10.00.00 10.00 10.00
10 branch ARBL2010	LD 015.88 LD 016.27 LD 015.80 LD 016.80 LD 016	10 00.35 10 00.35 10 00.36 10

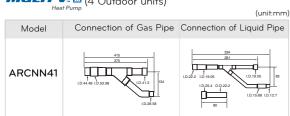
Y BRANCH PIPE FOR CONNECTION OF OUTDOOR UNITS

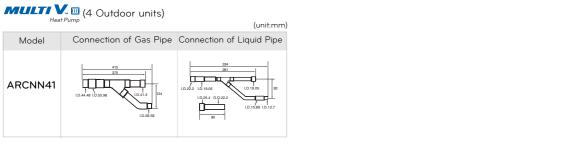


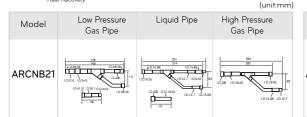


MULTI V. ■(3 Outdoor units)

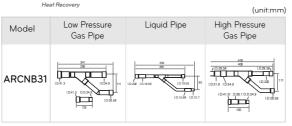
MULTI V. III (3 Outdoor units)

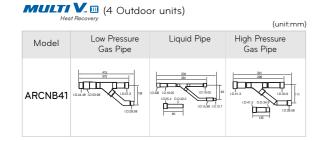






MULTI V. II (2 Outdoor units)





Y BRANCH PIPE FOR CONNECTION OF INDOOR UNITS

MULTIV. MULTIV. MULTIV. MULTIV. MULTIV. MULTIV. PLUSII PLUSII

		(unit:mm)			(unit:m
Model	Gas Pipe	Liquid Pipe	Model	Gas Pipe	Liquid Pipe
ARBLN01621	1012.7 1015.88 1015.88 1012.7 1015.88	106.55 1.06.55 1.06.55 1.06.55 1.06.55 1.06.55	ARBLN07121	1022 1075.58 1022 1075.58 1076.5 1075.88 1076.5 1075.88 1076.5 1075.88 1076.5 1075.88 1076.5 1075.88	1D19.05 1D15.88 1D15.88 1D15.88 1D15.80 1D19.05 1D19.05 1D19.05 1D19.05 1D19.05
ARBLN03321	LD222 LD19.05	109.52 105.52 1012.7 106.52 1012.7 106.55	ARBLN14521	LDM-9 LDM-13 LDM-1	LD15.88 LD19.05 LD19.0
			ARBLN23220	10,5190 104.48 105.54 1	10252 10222 10905 10254 10222 10905 10254 10222 1054

Heat Recovery	WATER Heat Recovery

Heat Recovery	WATER III Heat Recovery		(unit:mm)
Model	Low Pressure Gas Pipe	Liquid Pipe	High Pressure Gas Pipe
ARBLB01621	LD12.7 LD12.7 LD15.88 LD19.05 LD19.05	LD6,35 LD6,35 LD8,52 LD9,52 LD9,52 LD9,52 LD9,52	I.D. 15.88
ARBLB033 <i>2</i> 1	LD19,05 LD15,88 LD19,05 LD15,88 LD12,7 LD15,05 LD25,4 LD15,08 LD12,7 LD19,05 LD22,2 LD25,4 LD19,05 LD22,2 LD25,4 L	LD8.52 LD8.35 LD	LD. 15,88 LD. 15,188 L
ARBLB07121	LD18.58 LD19.05 LD15.88 LD18.05 LD15.88 LD18.05 LD18.0	LD19.05 LD19.05 LD19.05 LD19.05 LD19.05 LD19.05 LD19.05 LD19.05 LD19.05 LD19.05 LD19.05 LD19.05 LD19.05	I.D. 18,05 I.D. 28,58 I.D. 28,58 I.D. 25,54 I.D. 25,54 I.D. 25,54 I.D. 25,54 I.D. 25,56 I.D. 12,7 I.D. 18,05 I.D. 12,7 I.D. 12
ARBLB14521	LD94.9 LD94.3 LD98.58	LD15.88 LD19.05 LD222 LD15.88 LD19.05 LD12.7 LD2.2 LD15.88 LD19.05 LD1	LD, 28.58 LD, 19.05 LD, 19.05 LD, 28.58 LD, 28.58 LD, 28.58 LD, 28.54 LD, 28.54 LD, 28.54 LD, 28.52 LD, 12.7
ARBLB23220	1D.53.98 1D.64.9 1D.55.1 1D.55	ID254 ID222 ID224 ID1905 ID254 ID1905 ID254 ID1905 ID254 ID1905 ID158 ID158 ID1595 ID158 ID	1D345