

2021

# AIR CONDITIONER



LG HVAC SOLUTION



2021 // AIR CONDITIONER



**LG Electronics**

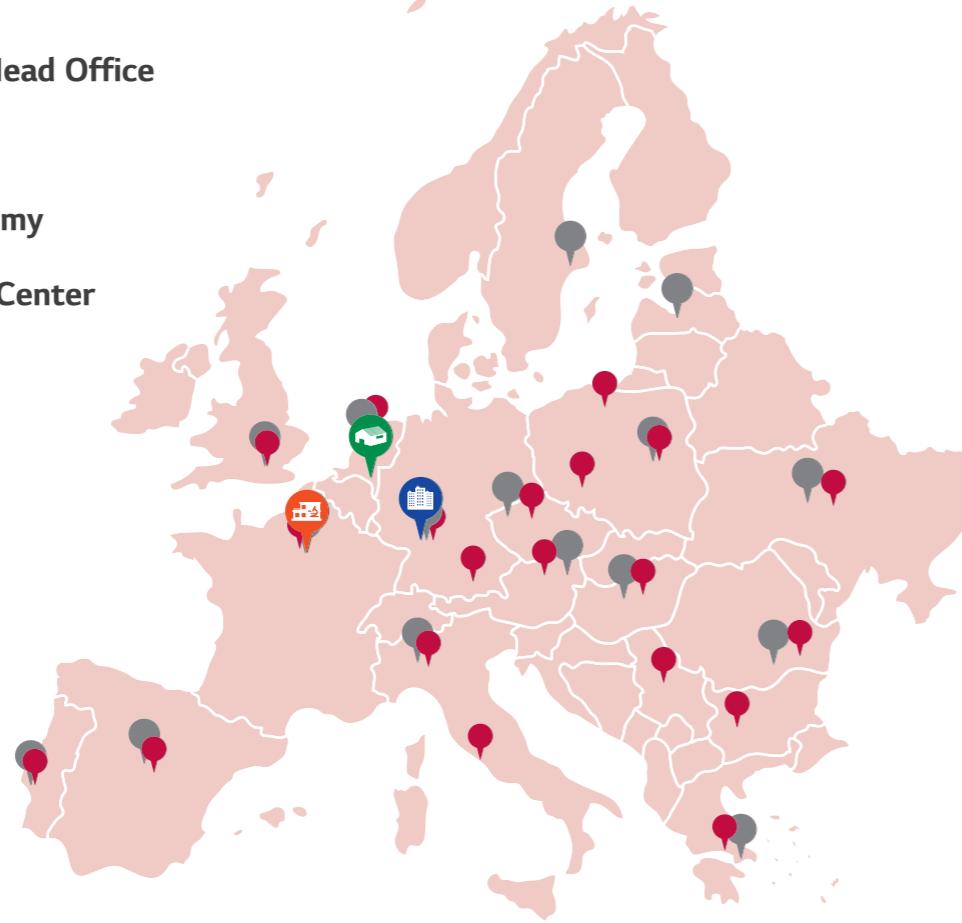
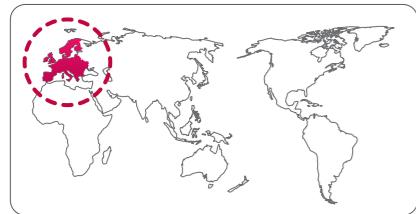
<http://www.lg.com>  
<http://partner.lge.com>

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# EUROPE SALES INFRASTRUCTURE

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



# GLOBAL PRODUCTION SITE



## LG Energy Labs in Europe

LG Energy Labs are driven to fulfill the commitment of meeting all the requirements regarding energy efficiency and environmental demands. Each LG Energy Lab is an innovative site dedicated to provide essential commercial and residential products in heating, ventilation and the latest energy efficient air conditioning solutions. Additionally, as a showcase, the LG Energy Lab is equipped with complete monitoring and control systems. The performance of all products are tracked and analyzed by a team of Research and Development engineers based in France, Finland and Korea, ensuring maximum efficiency and reliability during the complete products' lifecycle.



## European Air Conditioning Distribution Center

LG's European Air Conditioning Distribution Center is centralised in Oosterhout, the Netherlands. Supplying and delivering products to 15 countries in Europe, this Distribution hub has contributed to quick and seamless delivery, direct shipping for smaller orders and bespoke delivery to air conditioners. The hub tries to manage inventory efficiency by complying with the LG EU's established inventory pool.

## TOTAL HVAC SOLUTION PROVIDER

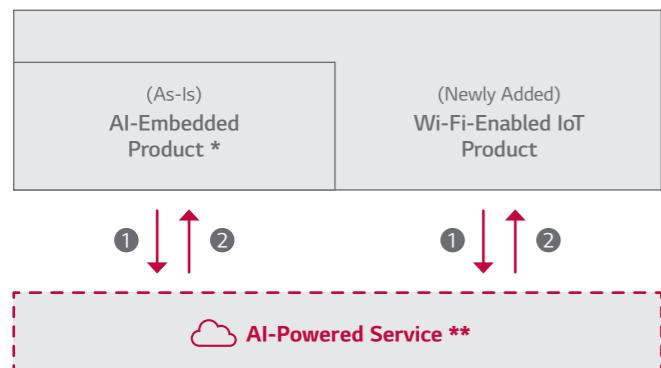
Since manufacturing Korea's first air conditioner exclusively designed for residential use in 1968, LG has been a pioneer of air conditioning innovation. Encouraged by LG's technological leadership in the residential air conditioning sector since the late 1990s, LG moved into the commercial air conditioning sector.

LG has established itself as an exemplary HVAC and energy solutions provider, investing in new technologies, with the addition of chiller, VRF systems and building management systems (BMS) to its comprehensive product portfolio. Alongside its wide range of innovative solutions, the LG promise is to deliver unparalleled customer service.

LG produces expert air conditioning professionals at its academic centers, of which there are nearly 80 worldwide. These academic centers provide workshops and training programs that offer excellent hands-on experience. Additionally, LG provides advanced and highly sophisticated tools for HVAC system engineers and installers, including its time saving LG Air Conditioner Technical Solution (LATS) software. LATS allows LG to support clients with draft energy estimation and energy modeling, model selection and design, lifecycle cost analysis and more to ensure a seamless process from planning to execution. LG also operates several state-of-the-art R&D facilities all across the planet.

# Made Better with LG ThinQ™

With most people living lives that are more hectic than ever before, we see the enormous potential benefits new technologies will bring to the home. LG ThinQ links smart products together so that they can work in unison to make your home smarter and more connected. New levels of control and convenience simplify everyday life and free up time so that you can stay focused on what matters. Furthermore, transformative features and services with artificial intelligence will take home evolution one step further. LG ThinQ will provide more personalized and optimized solutions by learning your needs and preferences through its wide range of products. Get more done while doing less. LG ThinQ's Personalized Solution, Proactive Advice, Maximum Efficiency and Intuitive Control deliver an elevated, more intelligent lifestyle. LG ensures its intelligent offerings, AI-powered products and services unlock new roles for homes that can play an important role for truly smart living. Think Wise. Be Free.



- ① Understanding users via data collection  
② Providing tips & solutions through AI data analytics

\* Previous LG ThinQ products-Requirement : evolving products with vocal/visual/product intelligence  
\*\* Examples of AI-Powered Service : -Usage guide/tips, Predictive maintenance, Auto/semi-auto setting (TBD)

## Consumer Benefits



### Intuitive Control

LG ThinQ adds convenience to your daily life by simplifying daily tasks. The LG ThinQ experience is reliable, flexible and effortless from setup to control and beyond. LG ThinQ products can be controlled from anywhere and at any time with simple voice-commands and a tap of the innovative ThinQ smartphone application. Meaning anywhere can be your home.



### Maximum Efficiency

LG ThinQ minimizes energy consumption and can even track your energy usage and expenditure. Beyond mechanical advancements, LG ThinQ provides unrivaled energy efficiency by utilizing a combination of analytics, sensors and usage data.

### Personalized Solution

LG ThinQ provides tailored recommendations and optimal settings, with your needs and preferences taken into account. Thanks to the power of AI, the same products can offer different experiences depending on your unique tastes and specific situations.





010

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## RESIDENTIAL

- |                          |     |
|--------------------------|-----|
| WALL MOUNTED             | 022 |
| PORTABLE AIR CONDITIONER | 060 |
| HEAT PUMP WATER HEATER   | 068 |
| MULTI SPLIT              | 082 |

144

144 - 275

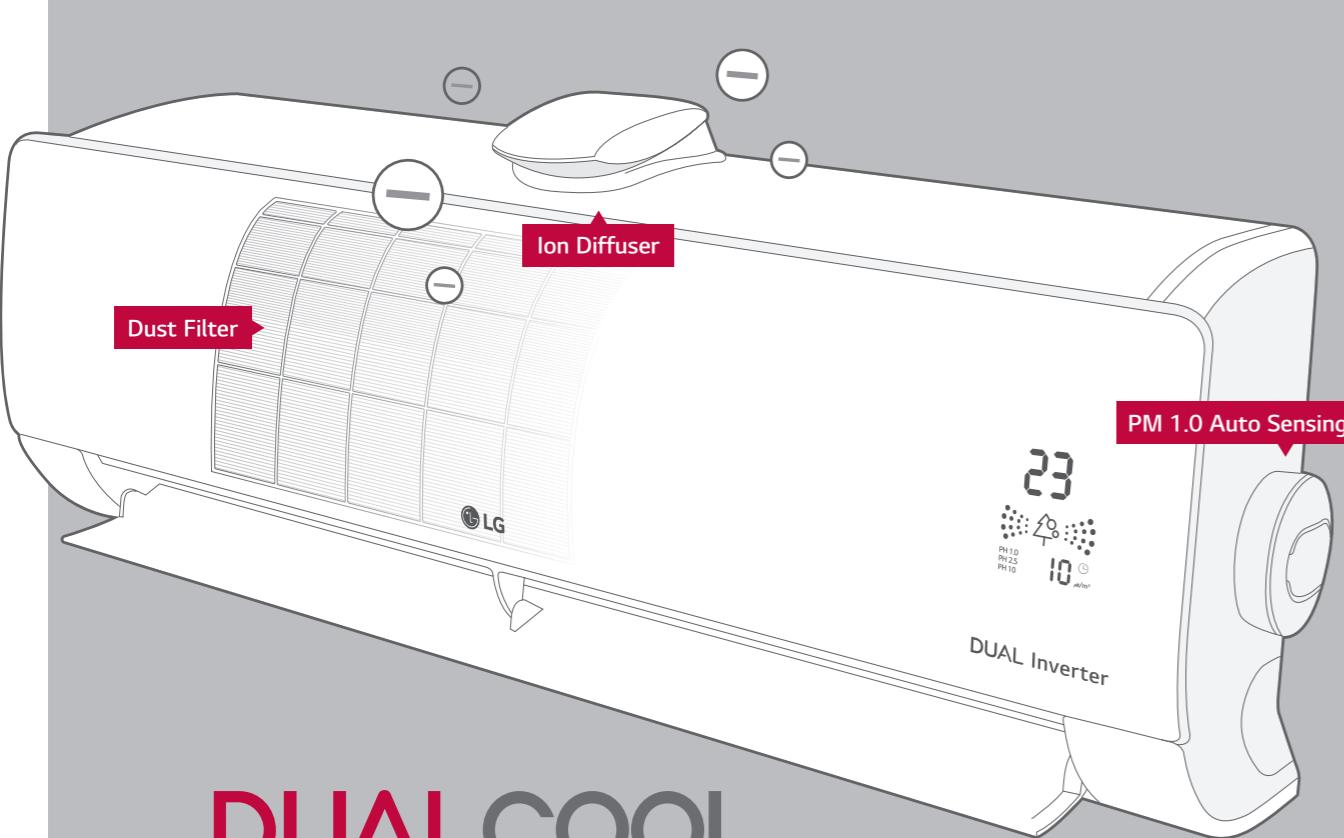
## COMMERCIAL

SINGLE SPLIT

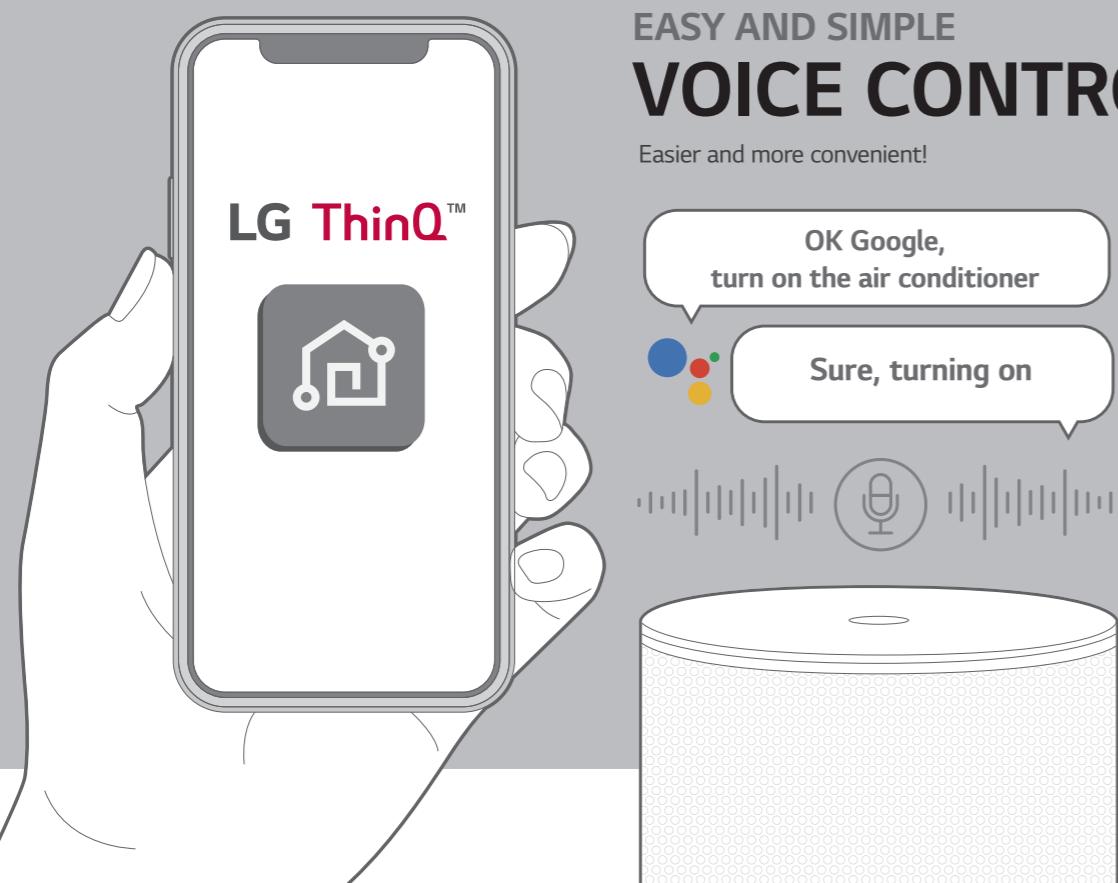
148



# ADVANTAGE OF AIR CONDITIONER



## DUAL COOL with Air Purification



## EASY AND SIMPLE VOICE CONTROL

Easier and more convenient!

## SPACE ART DESIGN

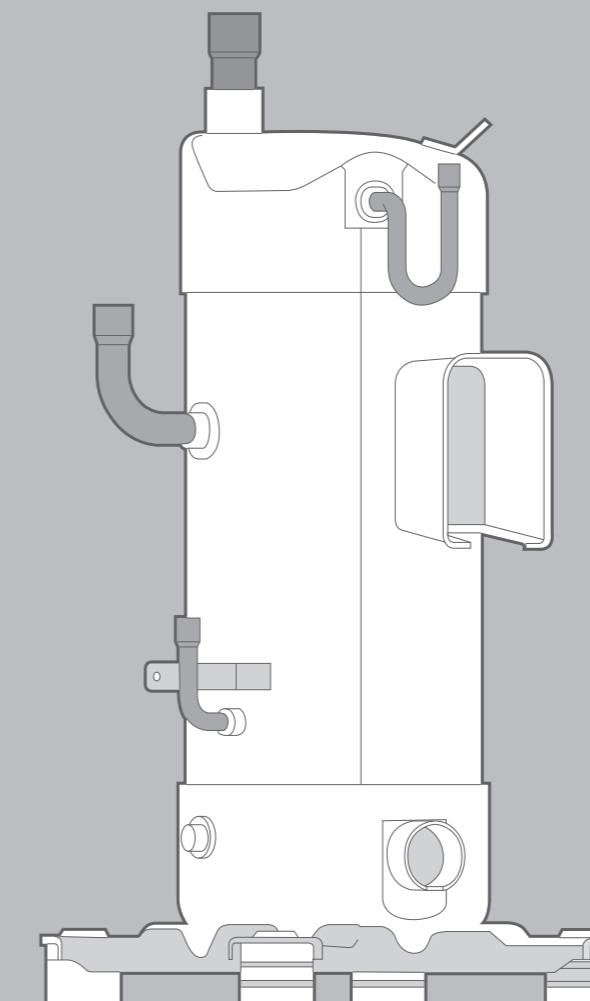
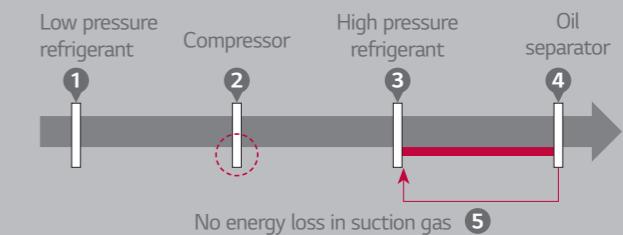
Unique designs that enhance your interior's effects



## ADVANCED TECHNOLOGIES R1 COMPRESSOR

Revolutionary Scroll Compressor is applied for high-efficiency and reliability

HiPOR™



## 10 YEAR WARRANTY EXTREME DURABILITY

Reliable Air Conditioner



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# RESIDENTIAL

WALL MOUNTED / PORTABLE AIR CONDITIONER / HEAT PUMP WATER HEATER / MULTI SPLIT



Enjoy A New Level Of Fresh Air

# AirCare Complete System™

Today's air conditioners, as well as fast cooling & energy saving are now basic, and all brand communicate each benefit of filtering bacteria, dust and mold and purifying contaminated air. However, it's not differentiating to consumer.

LG's AirCare Complete System™ refers to a technology that combines UVnano™ on top of filtering system to appeal for differentiation.



What is AirCare Complete System™ ?

Filtering System

+

UVNano™



Total Care Even inside



Only LG

Air Purification

Communication  
with Simple  
function

Fast Cooling  
& Energy Saving

All Brands

Enjoy A New Level Of Fresh Air

# AirCare Complete System™

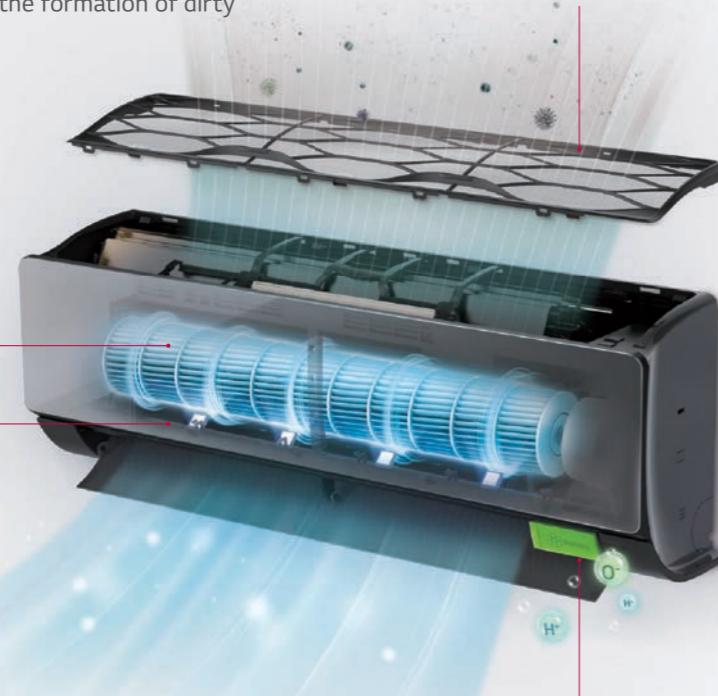
LG DUALCOOL, LG ARTCOOL brings the freshness of nature to your home.

The all-new AirCare Complete System uses a filtration process with UVnano™ and Ionizer that removes fine dust and even bacteria, ensuring the breeze around you is always fresh. ensuring the air you breathe is always fresh. Breathe in the nature - right at home.

## ART COOL™ MIRROR

### Auto Cleaning

Automatically dries out any moisture collected in the unit to prevent the formation of dirty and harmful scraps.



### UVnano™

Keeps your fan 99.99% bacteria-clean with UV LED light to ensure fresh and clean air is delivered.

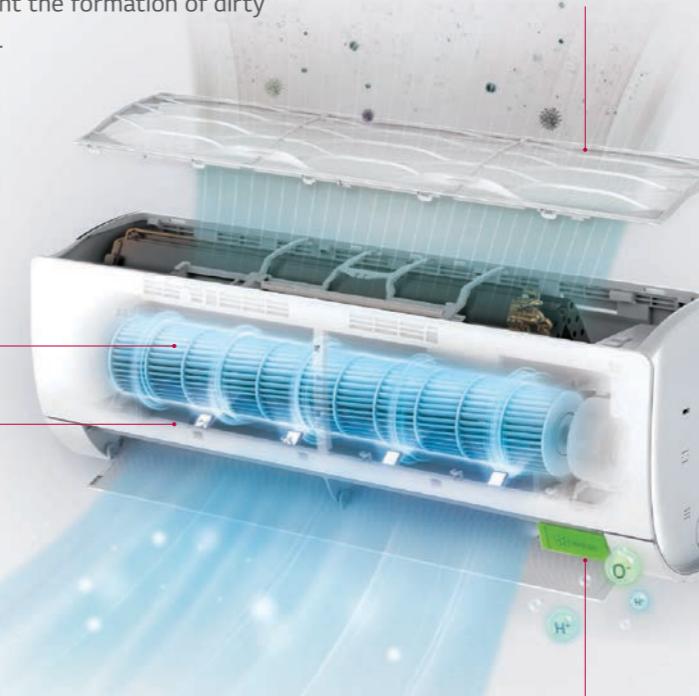
### Pre-Filter™

Traps big dust particles from the start.

## DUALCOOL™ DELUXE

### Auto Cleaning

Automatically dries out any moisture collected in the unit to prevent the formation of dirty and harmful scraps.



### UVnano™

Keeps your fan 99.99% bacteria-clean with UV LED light to ensure fresh and clean air is delivered.

### Pre-Filter™

Traps big dust particles from the start.

### Plasmaster™ Ionizer+

Stay cool and keep the air healthy by removing 99.9%\* of adhering bacteria and deodorizing.

Anytime, Anywhere!

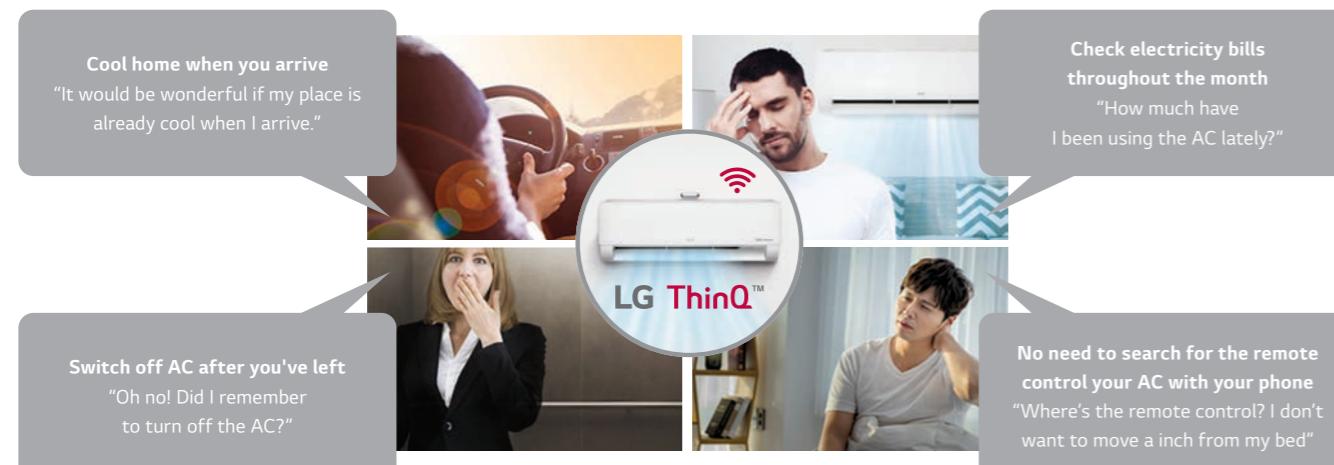
# DUALCOOL™ ThinQ™

with Voice Control



## Key Feature

### Enhance your daily life with LG ThinQ



### Voice control for a better life

- Very intuitive : It has never been that simple to control a device.
- Accessible to everyone : Young to elder people. Increase your comfort by asking so.
- Time saving : Don't look for the remote control anymore, just say it with your voice instead.

### Simple voice control, time saving & accessible to everyone

No need to wander around searching for your AC's remote control. DUALCOOL™ models are also compatible with AI speakers such as LG ThinQ with Google Assistant, Google Home and more. From now on, don't bother pressing any buttons. Use your voice instead.



※ LG ThinQ is now renamed to LG ThinQ.

※ Smart features and voice assistant product may vary by country and model. Check with your local retailer or LG for service availability.

Don't Worry! Now, Breathe Healthily

# DUALCOOL

with Air Purification



Cooling + Heating + Air purification

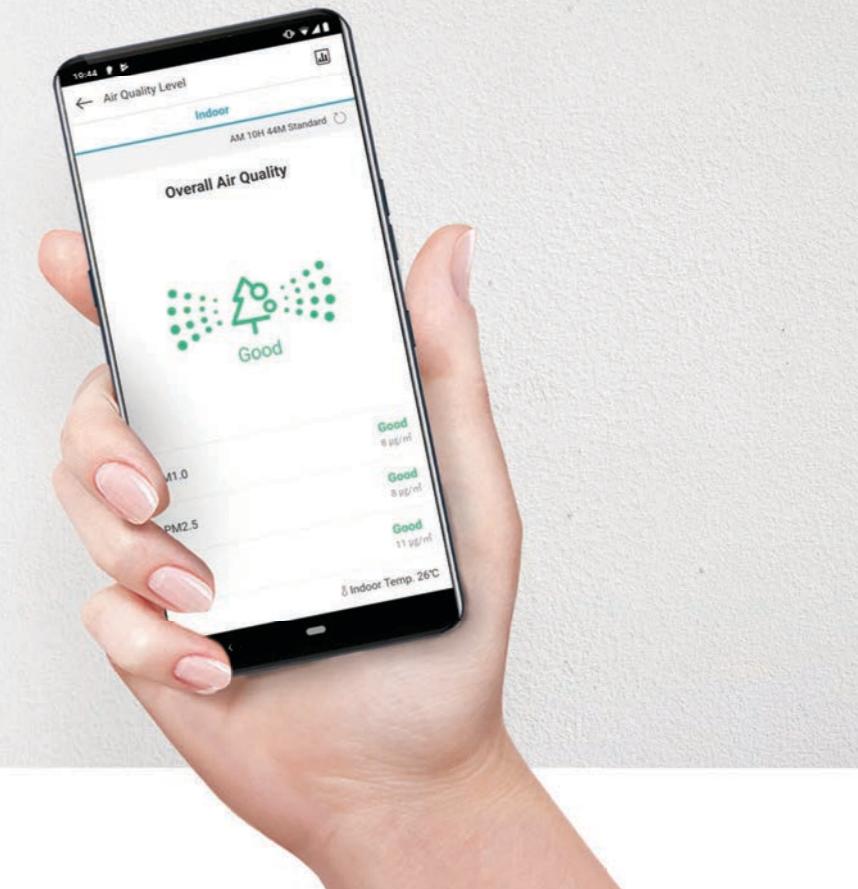
**Comfort 365 days**

Removes Ultrafine dust

**Ion Diffuser & Micro Dust filtering system**

Real-time control & monitoring

**LG ThinQ APP**



## Key Feature

### Air Conditioner and Air Purifier in One

PM1.0 sensor is automatically activated and filtration system uses 5 million ions to capture and remove microscopic dust particles.



※ Formerly branded LG ThinQ is now LG ThinQ.

※ Smart features and voice assistant product may vary by country and model. Check with your local retailer or LG for service availability.

### Reduction of $0.1\mu\text{m}$ (1/500 of hair) Micro Dust Up to 99.9%

Micro dust  $0.1\mu\text{m}$  (100nm) can be removed up to 99.9% within 109 minutes.

#### Test Result

$0.1\mu\text{m}$  (100nm) Air Purifying Performance Test



※ Test Condition  
- Test Room size (W x H x D) : 4,000 x 3,000 x 2,500 (mm), Test model S3NM12JA1YB

### Four Seasons of Breeze

Enjoy comfort in all four seasons with cooling, heating, and air purification.

**Comfort 365 days**



### Air Purification with Coverage Up to $29\text{m}^2$

Feel the difference in the air with coverage up to  $29\text{m}^2$ .

#### Test Result

PM 2.5 Air Purifying Capability Test



※ Coverage vary depending on the product capacity.  
Testing by TUV Verification, SJ :  $27.4\text{m}^2$ , SK :  $29.3\text{m}^2$

### Conveniently Manage Air Quality with LG ThinQ App

Let's check now! History of your air quality by LG ThinQ.



# INDOOR UNITS LINE-UP

MODEL	kBtu	5		7		9		12		15		18		24	
		kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0						
DUALCOOL	Gallery					A09FT NSF	A12FT NSF								
	Mirror				AM07BH NSJ	AC09BH NSJ	AC12BH NSJ			AC18BH NSK	AC24BH NSK				
	Prestige				F09MT NSM	F12MT NSM									
	Air Purification				AP09RT NSJ	AP12RT NSJ									
	Deluxe				DM07RH NSJ	DC09RH NSJ	DC12RH NSJ			DC18RH NSK	DC24RH NSK				
	Deluxe 2				DC09RT NSJ	DC12RT NSJ									
	Standard Plus				PM05SP NSJ	PM07SP NSJ	PC09SQ NSJ	PC12SQ NSJ	PM15SP NSJ	PC18SQ NSK	PC24SQ NSK				
	Standard 2				MS07ET NSA	S09ET NSJ	S12ET NSJ			S18ET NSK	S24ET NSK				
	Standard				S09EQ NSJ	S12EQ NSJ				S18EQ NSK	S24EQ NSK				
	Standard 3				S09EH NSA	S12EW NSJ									

\* Refer to multi split line up for 5, 7, 15 kBtu indoor unit connection.

# OUTDOOR UNITS LINE-UP

MODEL	kBtu	9		12		14		16		18		21		24		27		30	
		kW	2.6	3.5	4.1	4.7	5.3	6.2	7.0	7.9	8.8								
DUALCOOL	Gallery		R32	A09FT UL2	A12FT UL2														
	Mirror		R32	AC09BH UA3	AC12BH UA3							AC18BH UL2	AC24BH U24						
	Prestige		R32	F09MT U24	F12MT U24														
	Air Purification		R32	AP09RT UA3	AP12RT UA3														
	Deluxe		R32	DC09RH UL2	DC12RH UL2							DC18RH UL2	DC24RH U24						
	Deluxe 2		R32	DC09RT UA3	DC12RT UA3														
	Standard Plus		R32	PC09SQ UA3	PC12SQ UA3							PC18SQ UL2	PC24SQ U24						
	Standard 2		R32	S09ET UA3	S12ET UA3							S18ET UL2	S24ET U24						
	Standard		R32	S09EQ U	S12EQ UA3							S18EQ UL2	S24EQ U24						
	Standard 3		R32	S09EH UA3	S12EW UA3														

# WALL MOUNTED

ARTCOOL / PRESTIGE / DUALCOOL with Air Purification / DELUXE / STANDARD PLUS / STANDARD



## FEATURE OVERVIEW

Feature may vary for each model.

1. When connected to Multi Outdoor unit, Silent Mode 3dB is working by simply setting the dip switch on the PCB of the outdoor unit.  
2. When combines with 40kBtu, Cooling A+, Heating A  
3. Wi-Fi Ready : can be connected by using Wi-Fi controller (PWFMD200)  
4. Please refer to the specifications of Multi outdoor units.

SMART	ENERGY EFFICIENCY	COMFORT	EXTREME DURABILITY	FAST COOLING & HEATING	MULTI						
Embedded Wi-Fi	Smart Diagnosis	Active Energy Control	Energy Display	Comfort Air (Indirect Air)	4 Way Swing	Low Noise 19dB	Silent Mode 3dB	Gold Fin™	Jet Cool	Fast Heating	Compatible
•					3 way				•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
•				•	•	•	•	Black Fin		•	
•	•	•	•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
•				•	•	•	•	Black Fin	•	•	
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	Black Fin	•	•	
•	•	•	•	•	•	•	•	•	•	•	•
•				•	•	•	•	Black Fin	•	•	
•	•	•	•	•	•	•	•	•	•	•	•
•					(18/24k Only)				•	•	
•	•	•	•	•					•	•	

**CORE TECH**

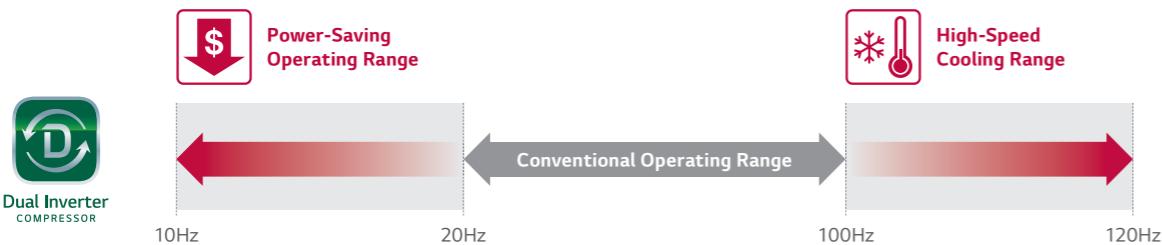
powered by  
**DUAL** Inverter Compressor™

**What is the Dual Inverter Compressor?**

A compressor is the heart of an air conditioner, and monitoring whether it works properly, effectively, or noisily can cause stress as well as cost money. LG's Dual Inverter Compressor provides an effective solution, resulting in an air conditioner that cools faster, lasts longer, and operates quieter than conventional models.

**How it Works****Varied-Speed Dual Rotary**

A compressor motor with a wider rotational frequency that is energy efficient and has a higher volumetric quick cooling capacity than any conventional compressors.

**R32 Refrigerant**

R32 refrigerant is a more eco-conscious refrigerant than the previous generation of refrigerants.

**Pain Point**

Due to accelerated global warming and the destruction of the ozone layer, various international conventions and meetings are held to enhance restrictions to the use of refrigerant or enforce the use of eco-conscious refrigerants. In order to reduce environmental destruction, refrigerant R32 is internationally acclaimed for being eco-friendly. This low volume refrigerant is more efficient than conventional refrigerants and boasts a 68% reduced global warming potential.

**Benefit**

Eco-conscious refrigerants reduce environmental pollution.

**Product Reliability Improvement**

The Dual Inverter Compressor reduces the vibration and with it the sound pressure levels. The reduction in vibration reduces the possibility of fractures occurring in the surrounding pipework.

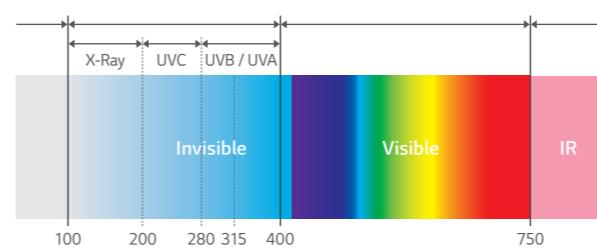
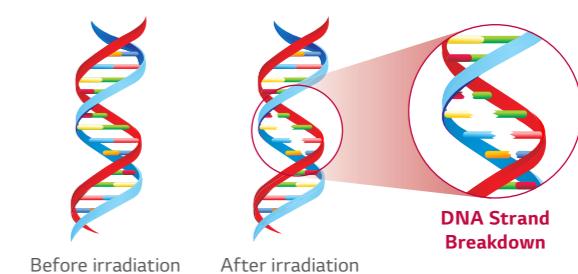
**UVnano™**

New UV LED technology "UVnano" is applied to LG DUALCOOL, and it keeps the fan (inside of indoor unit) 99.99% bacteria-clean with ultraviolet light to ensure that the air passing through is clean too.

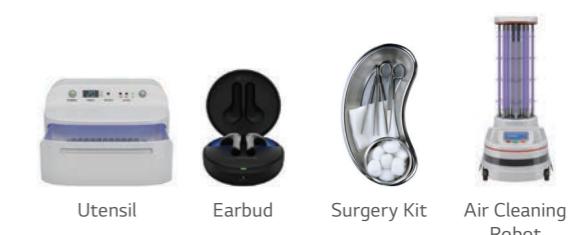
※ UVnano is an integrated marketing name that applies LG Electronics' entire home appliances and it is a compound of the words UV(ultraviolet) and nanometer (unit of length).

**What is UVnano and How It Works?**

- Emit Ultraviolet rays of UVC wavelength directly damage the DNA of microorganisms (bacterial/MOLD/virus), making it impossible to multiply.
- High absorption into DNA at 260 to 270 nm wavelengths

**DNA Absorption Efficiency by Wavelength****Electromagnetic Spectrum and Types****Destruction Nuclear Sequence (Chain)**

Ultraviolet light is a form of radiation which is not visible to the human eye. It's in an invisible part of the "electromagnetic spectrum". Radiated energy, or radiation, is given off by many objects: a light bulb, a crackling fire, and stars are some examples of objects which emit radiation.

**UVC Applied Product****LG Product****Various Product Lines****Benefit & Verification**

Keep the fan 99.99% bacteria-clean for a cleaner breeze.

**Test Result**

※ Test Condition  
- Test Model : S3NM12JL1GA(SJ), S3NM24K21GA(SK)  
- Test Standard : LG test method with referenced to ISO 20743:2007  
- Bacteria : Staphylococcus aureus, Staphylococcus epidermidis, Klebsiella pneumoniae

## Plasmaster™ Ionizer<sup>+</sup>

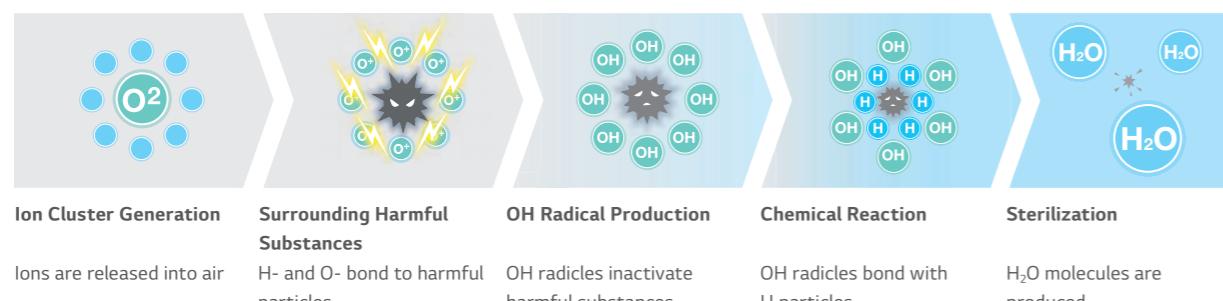
The powerful Plasmaster Ionizer<sup>+</sup> protects you from bad odors and Escherichia coli and Staphylococcus in the surface with over 3 million ions to Reduce to make a safer, and cleaner environment.

※ Specifications may vary for each model.  
※ Depending on the experimental conditions.

### How It Works

#### Reduction and Deodorization (Utilizes Over 3 Million Ions)

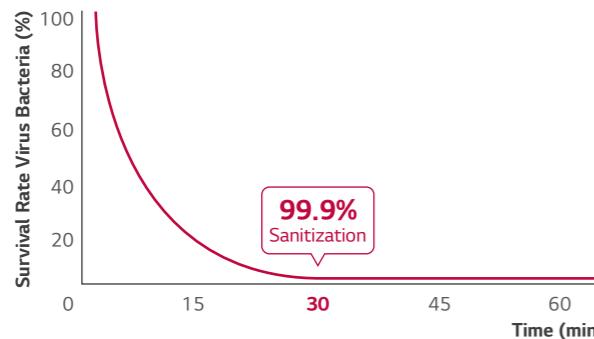
Plasmaster Ionizer<sup>+</sup> reduces E.coli and Staphylococcus in the surface with over 3 million ions.



### Test Result

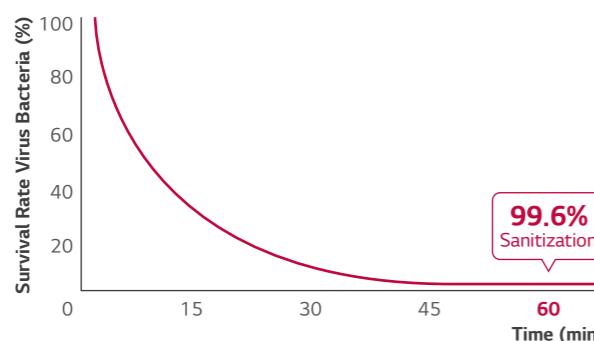
#### Reduction Performance Evaluations

Reduce Bacteria E.coli over 99.9% in 30 min.



※ Test Conditions :  
Space : 52m<sup>3</sup> Chamber (measuring with the specimen in the center of test chamber)  
Temperature & Humidity : Normal  
Bacteria : E. coli colon bacillus  
Tested by Intertek

#### Sterilize staphylococcus over 99.6% in 60 min



※ Test Conditions :  
Space : 52m<sup>3</sup> Chamber (Measuring with the specimen in the center of test chamber)  
Temperature & Humidity : Normal  
Bacteria : Staphylococcus Aureus  
Tested by Intertek

## PM 1.0 Auto Sensor

As AC turns on, PM 1.0 sensor automatically operates to capture and remove microscopic dust particles including ultra fine dust.

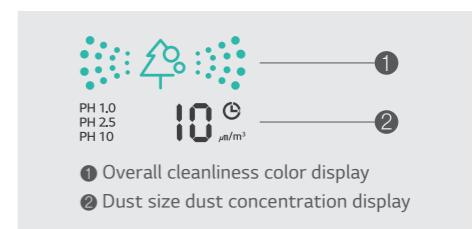
※ Specifications may vary for each model. ※ Depending on the experimental conditions.

- AQI (Air Quality Index) is displayed in unit of 1 within 8~999 µg/m<sup>3</sup>.
- AQI (Air Quality Index) may continuously change according to changes in the indoor environment.
- Overall cleanliness color is displayed based on the highest contamination level among fine dust (PM10), ultra fine dust (PM2.5), and super ultrafine dust (PM1.0).
- Overall cleanliness color is displayed in 4 levels according to the indoor contamination level.
- If dust concentration is high, the difference between the displayed dust concentration and the actual dust concentration may increase.



During the operation, if you press PM SENSOR button, you can check the indoor cleanliness in each level.

Color	Level	Display standard (µg/m <sup>3</sup> )		
		Super ultra fine dust (PM 1.0)	Ultra fine dust (PM 2.5)	Fine dust (PM 10)
Green	Good	12 or less	12 or less	54 or less
Yellow	Normal	13 - 35	13 - 35	55 - 154
Orange	Bad	36 - 55	36 - 55	155 - 254
Red	Very Bad	56 or more	56 or more	255 or more



#### Guide to dust particles' size

- Finedust : Dust with particle size of 0.02µm
- Ultrafine Dust : Dust with particle size of 2.5µm or less (Composed of ion component, carbon compound, and metal compound)
- Super Ultrafine dust\* : Dust with particle size of 1.0µm or less (Cigarette smoke, etc.)

#### AQI (Air Quality Index) evaluation is carried out with LG standard test dust.

\* Minimum capturing size of particle : 0.02µm  
※ PM : Particulate matter is the sum of all solid and liquid particles suspended in air many of which are hazardous.  
This complex mixture includes both organic and inorganic particles, such as dust, pollen, soot, smoke, and liquid droplets.

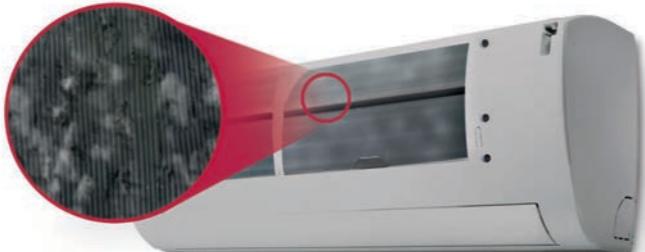
## Auto Cleaning

The interior of the air conditioner is maintained clean by drying off the heat exchanger, then cleaning the interior once more.

※ Specifications may vary for each model.

### Pain Point

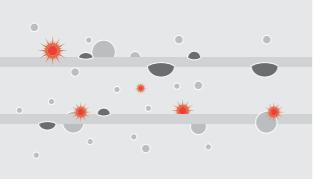
The main cause of odor within air conditioners is mold and bacteria growing on the heat exchanger.  
These germs can spread when the heat exchanger is wet.



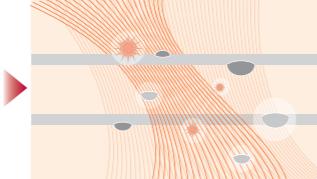
### How It Works

#### Cleans Filter with Regular Air Flow

The comprehensive auto cleaning function prevents the formation of bacteria and mold on the heat exchanger, providing an enhanced environment.



By dehumidifying, the auto cleaning function prevents potentially harmful substances from forming on the surface of the heat exchanger.



The indoor environment remains odorless with the advanced deodorizing function.

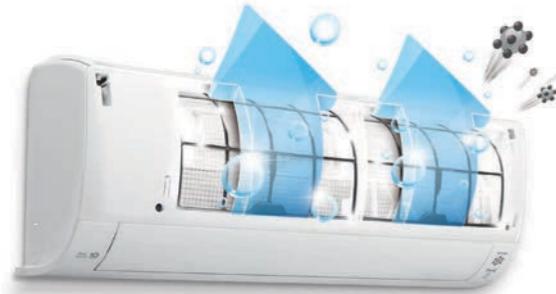


By preventing polluting of the heat exchanger caused by various germs and bacteria.

### Benefit

#### Removes Harmful Particles

Auto Cleaning provides clean air by preventing bacteria, mold and odors that can otherwise accumulate in an indoor unit.



Bacteria  
Prevention



Odor  
Prevention



Mold  
Prevention

## Embedded Wi-Fi

Control your air conditioners by using Android or iOS based smartphones.

### LG ThinQ



Download the LG ThinQ app from Google or Apple app stores.



### How it Works

#### Embedded Wi-Fi modem

Enable "LG ThinQ" on your air conditioner.



By using the embedded Wi-Fi modem, get ready for innovation without boundaries.

#### Wi-Fi Connectivity

Each individual member of your family can customize the air conditioner temperature and fan speed accordingly and then save the settings in their app to run it later. These settings can be saved for each air conditioner too.

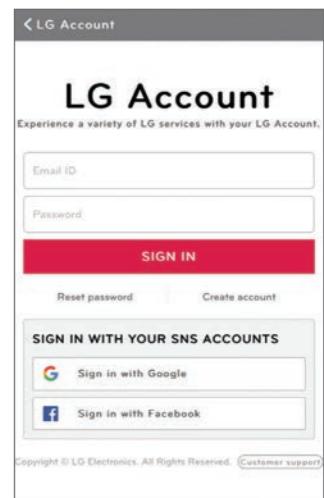
#### Multiple Devices



※ Can be controlled by multiple users, but not simultaneously.

#### Easy Registration and Log-in

Follow the interactive set-up LG Account steps that will activate LG ThinQ's impressive features.



### Benefit

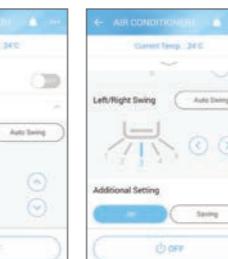
#### Simple operation for various functions



Energy  
Monitoring



Smart Diagnosis



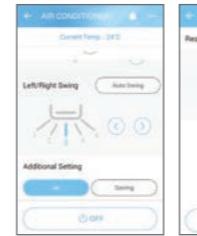
Filter Management

#### Integrated Home Appliances Control

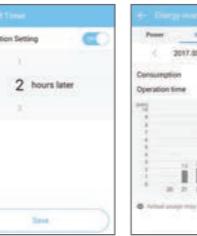
Monitor and control your LG appliances from one place.



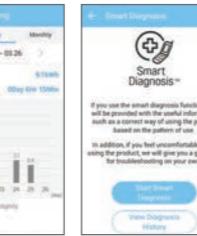
#### Straight-forward management



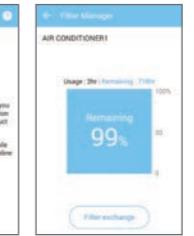
Reservation



Energy  
Monitoring



Smart Diagnosis



Filter Management

#### Access your air conditioner anytime and from anywhere

with a Wi-Fi equipped device and LG's exclusive control app, LG ThinQ.



## Smart Diagnosis

Smart Diagnosis allows you to monitor the health of your air conditioner directly from your smartphone.

※ Specifications may vary for each model.

※ When connected to Multi ODU, Smart Diagnosis function may not be supported.

### What is Smart Diagnosis?

Smart Diagnosis allows users to conveniently check setup, installation, troubleshooting and other information directly from a smartphone.

※ Builds upon widespread smartphone use and offers greater USP diversification

※ Perfect for consumers who are unable to view information about their air conditioner via a display or remote control.

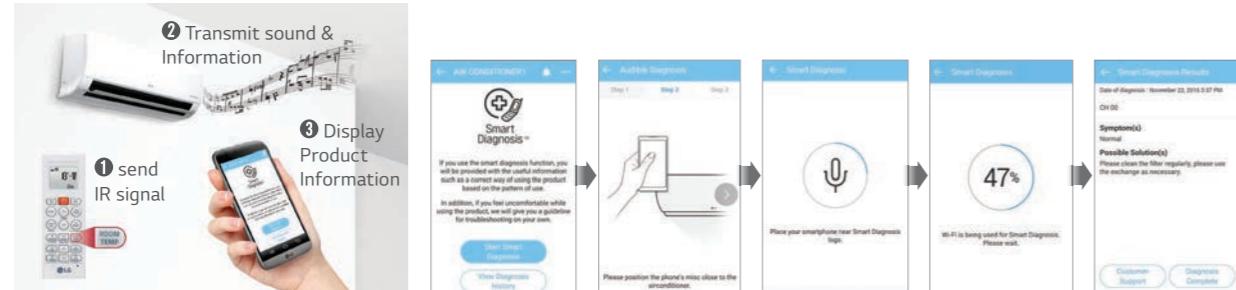
### How it Works

#### Embedded Wi-Fi Model

By using "LG ThinQ" App and clicking "Start Smart Diagnosis", monitor and check diagnosis results conveniently via Wi-Fi.

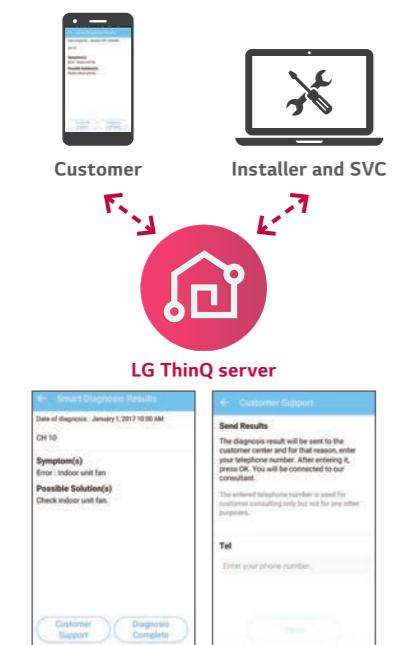


#### Non Embedded Wi-Fi Model



### Benefit

Easily comprehensible error messages make detecting a solution and contacting the service center simple and convenient.



#### For Consumer



- Easily check operational status of a product without a display or one that provides limited information.
- Save energy by monitoring key operational information and power consumption.
- Using the Maintenance Guide helps to improve device performance and increase product life-span.

#### For Installer and SVC



- Understand the product better by easily confirming operational status and information.
- Intuitively diagnose problems by comparing current and past usage data.
- Maintain installation capabilities and reduce installation errors by quickly confirming device operational status.

## SIMs

By connecting SIMs chip, you can check the status of your air conditioner and diagnose problems from your smartphone.

※ Specifications may vary for each model. ※ When connected to Multi ODU, SIMs function may not be supported.

### What is the LG SIMs?

Monitor the status of your air conditioner and accurately diagnose problems by connecting it to a smartphone via a SIMs\* chip.



\* SIMs : Smart Inverter Monitoring System

### Benefit

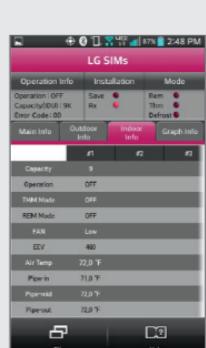
#### Easy Monitoring

Diagnose problems anytime, anywhere with a SIMs chip.



#### Main

- Current outdoor temperature
- Indoor temperature
- Inverter compressor frequency
- Operating opening
- Error code
- Frequency limits Indoor.
- Outdoor fan speed



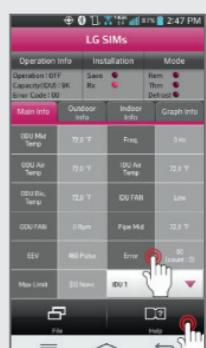
#### Indoor Unit

- Indoor Unit capacity
- Operation mode
- THM mode
- REM mode
- FAN operating condition
- EEV opening
- Room temperature
- Suction Temperature
- Intermediate temperature
- Exit temperature



#### Outdoor Unit

- Frequency
- Fan RPM
- DC Link
- Input current
- Input voltage
- EEV operation mode
- Restart timer
- Compressor mode
- EEV opening



#### Chart

- Room temperature
- Heat exchanger pipe temperature
- Compressor discharge temperature
- Frequency
- Outdoor temperature
- Compressor suction temperature
- Electric current
- Voltage

### Certificate



FCC US Radio Standard



IC Canada Radio Standard



Australia Radio Standard



CE Europe Radio Standard

## Low Refrigerant Detection

Early notification of low refrigerant protects your air conditioner from the risk of damage.

※ Specifications may vary for each model. ※ Depending on the experimental conditions.  
※ When connected to Multi ODU, Low Refrigerant Detection function may not be supported.

### How It Works

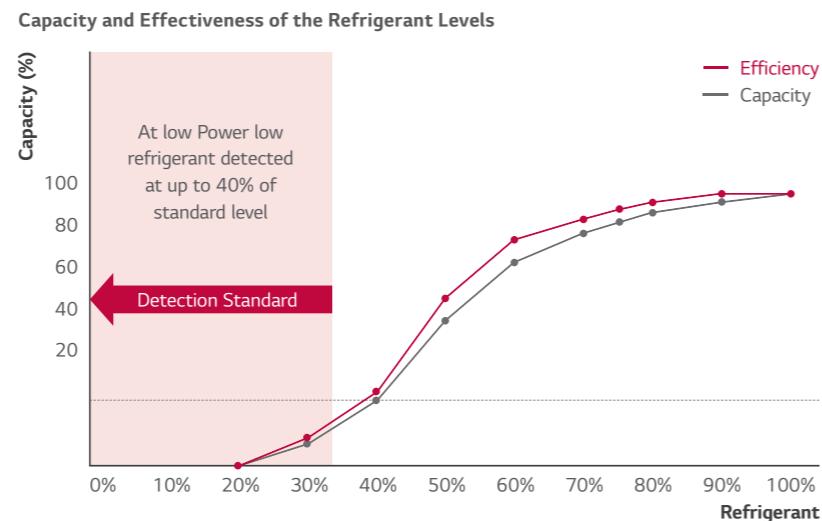
#### Early Detection of Low Refrigerant Levels

The Air Conditioner is automatically shut down when low refrigerant level is detected.

#### 3 Checkpoints for Low Refrigerant Level :

- 1) The heat exchanger temperature is comparatively cool
- 2) The outdoor unit is working properly
- 3) The energy consumption is working under a standard pattern

If any of the above conditions are not met, for a maximum of 4 times, after 15 minutes of Air Conditioner operation, a low refrigerant level is detected and the Air Conditioner is shut down.



※ This function only works under the following conditions  
- Indoor/Outdoor temperature is up to 20 degrees Celsius  
- Cooling and dehumidification mode

### Benefit

Longer Lifespan for Air Conditioner



When low refrigerant Level is detected, it alternately shows CH and 36 on the display.



※ Some models show CH and 38 alternately on the display.

## Supreme Energy Efficiency

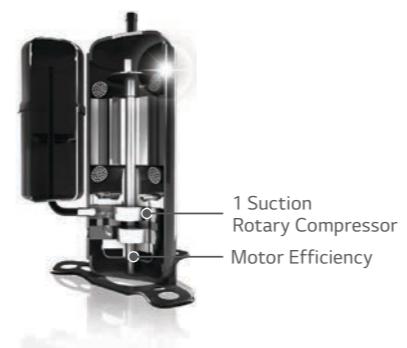
LG's revolutionary Inverter technology boasts powerful yet quiet performance while minimizing energy consumption. With world-class energy efficiency, enjoy comfort as well as energy savings.

※ Based on F09MT Model. ※ Specifications may vary for each model.

### High Efficient Compressor and Reversing Valve

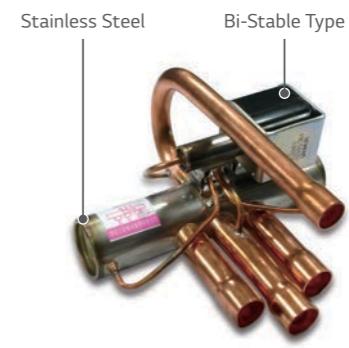
#### Rotary Compressor and Motor Efficiency

The number of suction connections has been reduced from two to one to increase the efficiency of the refrigerant compression during low speed conditions. The DC motor in LG air conditioners remains unsurpassable incomparable to in the world's top class efficiencies.



#### Bi-Stable Reversing Valve

The Input power of 4 way valve has been reduced to 0W by using a Bi-Stable type.



### Improved Inverter Drive Efficiency

Used to optimize the time of current flow by controlling the number of converter switching according to energy consumption status. Displays comparatively higher performance and advanced energy efficiency than conventional Inverter air conditioner by reducing power loss with an advanced material component called SiC.



## Energy Display

LG's Energy Display panel monitors the amount of energy levels used. Reduce energy consumption while enjoying a comfortable indoor environment by checking your energy level directly on the AC panel.

※ Specifications may vary for each model. ※ When connected to Multi ODU, Energy Display function may not be supported.

### How it Works

#### Magic Display & Remote Control

With the push of a button on the remote control, indoor unit's LCD display shows the current and total energy use, thus making the users aware of reducing energy consumption.



### Benefit

**Normal Mode**  
Current Setting Temp.

**Electric Power**  
Displays Current Energy Use



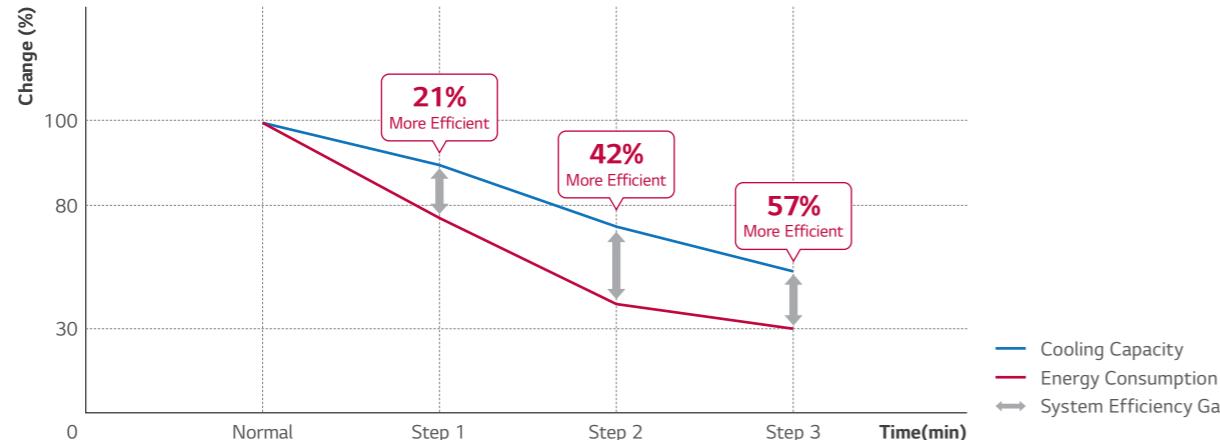
## Active Energy Control 4 - Step

LG's Active Energy Control adjusts the energy consumption level and cooling capacity by controlling maximum frequency of the compressor motor.

※ Specifications may vary for each model. ※ Depending on the experimental conditions.

※ When connected to Multi ODU, Active Energy Control function may not be supported. ※ Active Energy Control works only cooling mode.

### Concept & Benefit



※ Test Conditions : Normal Temperature (Indoor Temperature at the Cooling Mode : 28°C, Outdoor Temperature : 32°C)

※ Test Model : DC12RH

### How It Works

#### NORMAL 100% energy usage

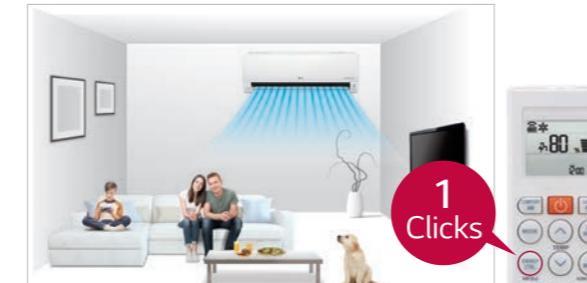
Many people and high-activity level.



#### STEP 1 80% energy usage

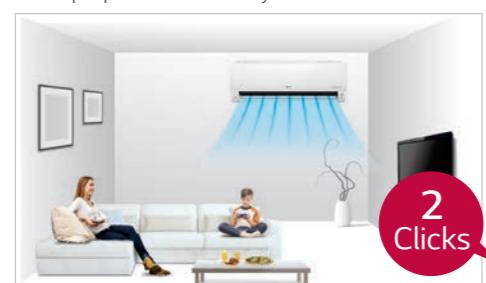
#### STEP 1 80% energy usage

Few people and moderate-activity levels.



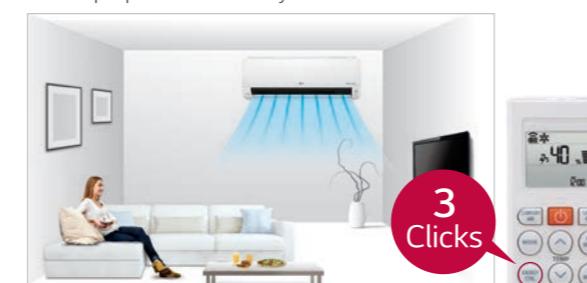
#### STEP 2 60% energy usage

Fewer people and low-activity levels.



#### STEP 3 40% energy usage

Fewest people with no activity.



## Comfort Air (Indirect Air)

LG provides pure hygienic and temperature regulated atmosphere surrounding your living space. An automatic vane angle adjustment sets perfect vane angle and air volume.

※ Specifications may vary for each model.

### Concept

Comfort Air changes the air flow angle to ensure that air is directed away from occupants to promote more comfortable environments optimized for sleeping and more.

### How It Works

#### Control Panel

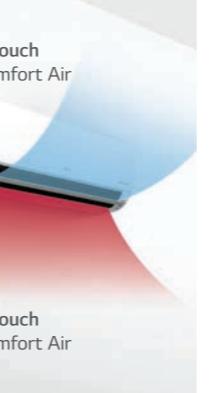


#### Comfort Vane

This option conveniently sets an AC's louvers to a preset position so that outflowing air is directed away from a room's occupants.



② 2 touch Comfort Air



**Scene 1: Inclines to a maximum 80° angle.**  
Sets vane angle to highest position : Optimized for gentle airflow cooling.

**Scene 2: Declines to a maximum 10° angle.**  
Sets vane angle to lowest position : Optimized for gentle airflow heating.

#### Indoor Unit Display



## 4 Way Swing

Cool air reaches out to the entire room regardless of where the air conditioner is installed.

※ Specifications may vary for each model.

### How It Works

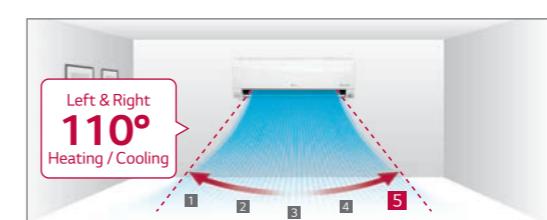
#### 6-Step Vane, Control up to 70°

The vertical vane, which moves up and down, has 6 different settings including full-auto swing.



#### 5-Step Louver, Control up to 110°

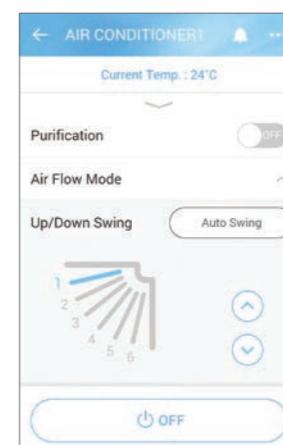
The louver, which sways left and right, has 5 different settings including full auto-swing.



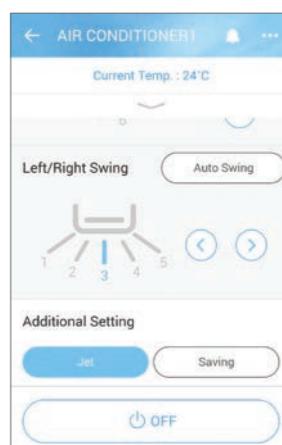
※ Angle can be different from each model and working mode.

### Easy and Simple Control

Airflow direction can be changed by LG ThinQ Wi-Fi app.



Up/Down Swing



Left/Right Swing

## COMFORT

## Low Noise

LG Air conditioners operate at 19dB low noise level.

※ Specifications may vary for each model.

## How It Works

## LG's Unique Skew Fan

By minimizing the surface pressure of the fan blade when in contact with the air, the noise produced by the air conditioning unit is reduced to a remarkably low level.



## ALVC (Active Low Vibration Control)

A speed-error component estimates the load to compensate for imbalances, which are the primary causes of vibration and noise, enabling the rotation of the motor without vibration at low Hz levels.



## Quick &amp; Easy Installation

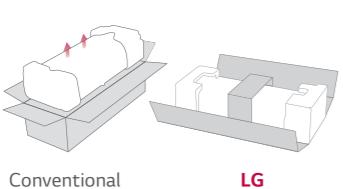
LG air conditioner is designed for an easy and efficient installation, making it possible to install several units in a short period of time.

## Concept

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

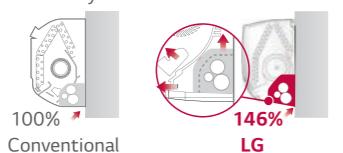
## How It Works

## One Simple Packing Box



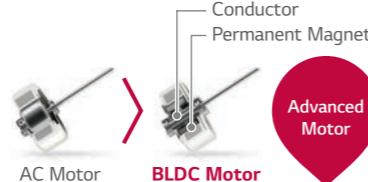
## Wider Tubing Space

The space provided for tubing facilitates the whole installation process and hides the unorganized parts, making it appear clean and tidy.



## BLDC Fan Motor

With strong torque and powerful ND magnetism as well as precise speed control of 13 different steps for smooth operation, the BLDC motor provides substantial air volume and high static pressure, while keeping electrical and mechanical noise lower, and making high-speed operation available.



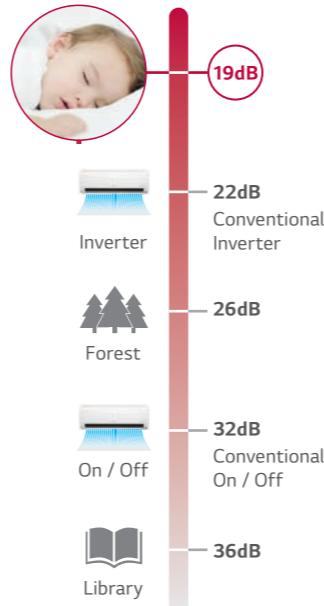
## AC Motor

- Low efficiency.
- Heat problem during overhauling.
- Difficult precise speed control.

## BLDC Motor

- Low electric and mechanical noise.
- Precise speed control durable.

## Benefit



## Silent Mode

Silent mode ensures a tranquil and serene experience for the user by reducing noise disturbances while you are resting.

※ Specifications may vary for each model.

※ Depending on the experimental conditions.

※ When connected to Multi Outdoor unit, Silent Mode is working by simply setting the dip switch on the PCB of the outdoor unit.

## How It Works

In Silent Mode, the overall sound level of the outdoor unit drops by up to 3dB and the sound level of the indoor unit also decreases.

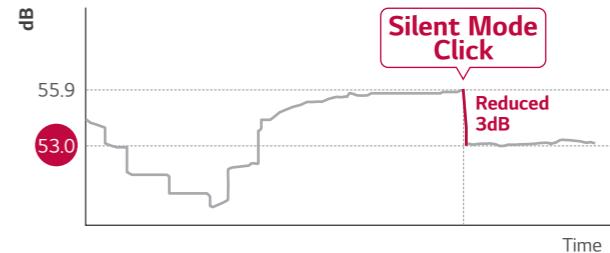
## Press the Silent Button



Controls the Outdoor Compressor

## Test Result

## Noise Comparison Graph



※ Test Conditions

Spec : Selecting Silent Mode reduces the noise of an outdoor fan unit by 3dB.  
Assessment : 36.2 dB emitted from center/side of unit at a distance of 1m.

## 10-Year Inverter Compressor Warranty

With confidence in product quality and a desire to enhance the lives of customers, LG provides a 10-year warranty on the Residential Air Conditioners' Inverter Compressor.

※ Specifications may vary for each model.

## What is the 10 Year Warranty?

With the 10-year warranty on the compressor, users can be assured of the functionality of our product for a longer period of time.



## Benefit &amp; Verification

## Reliable Air Conditioner

Product safety is emphasized by offering a 10-year warranty on the compressor to reassure customers about product durability.

## Verification

TÜV Rheinland, Long Term Accelerated-reliability Test & High Marginal Test



**DUAL  
INVERTER  
COMPRESSOR** | **10  
YEAR  
WARRANTY**

※ Long Term Accelerated-Reliability test  
LG's unique testing method with reinforced operating condition for a product life assurance to test and determine the product life cycle in a short period of time by accelerating the life cycle.

※ High Marginal Test  
Test method to secure durability in various adverse conditions that may occur in the field by performing comp reliability test against higher pressure and temperature than the designed range of pressure and temperature which the comp operates in.  
※ Verification obtained from TÜV Rheinland for 10-year product life cycle.

# FAST COOLING & HEATING

## EXTREME DURABILITY

### Gold Fin™

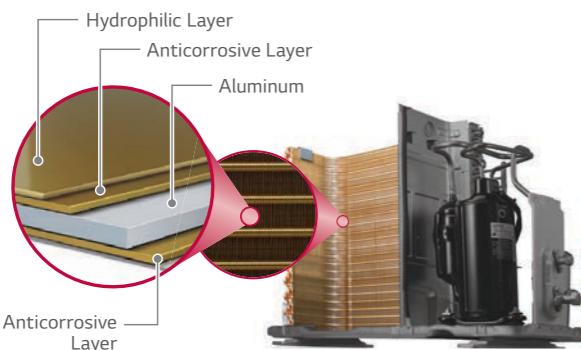
The Gold Fin™ coating protects the surface of the heat exchanger from unnecessary wear and corrosion.

※ Specifications may vary for each model. ※ Depending on the experimental conditions.

#### How It Works

##### Corrosion-resistant protective layer

The gold-colored special coating on the fin of the heat exchanger prevents corrosion, extending the life of the unit.



#### Test Result

##### Conventional Fin



##### Gold Fin™



\* Test result 360 hrs. after being exposed to sodium chloride.

### Jet Cool

The cool airflow reaches all the corners of the room, keeping the space cool and comfortable.

※ Specifications may vary for each model. ※ Depending on the experimental conditions.

#### How It Works

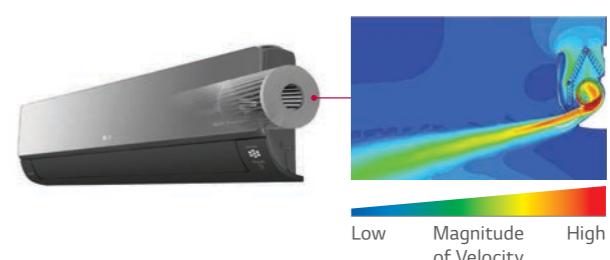
##### One Click "Jet Mode"

Reduces the temperature of outflowing air to 18°C for 30 minutes with just one click.



#### More Powerful Performance

By reducing the second vortex, which decreases airflow within the air outlet, and enlarging the fan size, the amount of airflow is increased to 13.0 CMM.



## FAST COOLING & HEATING

### Fast Cooling

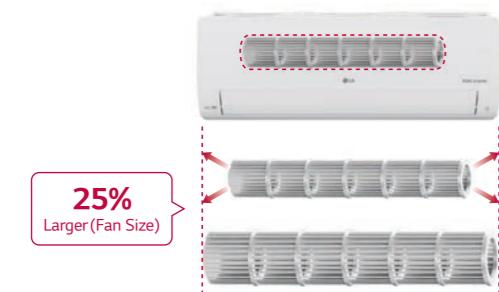
The cool airflow reaches all the corners of the room, keeping the space cool and comfortable.

※ Specifications may vary for each model. ※ Depending on the experimental conditions.

#### Pain Point

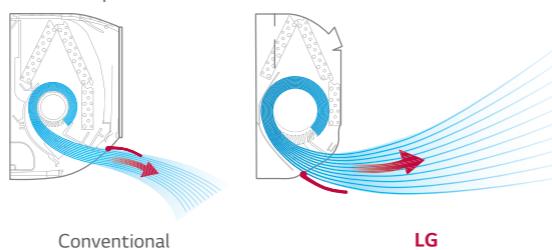
##### Bigger Skew Fan

A 25% larger skew fan emanates highly powerful blasts of air.



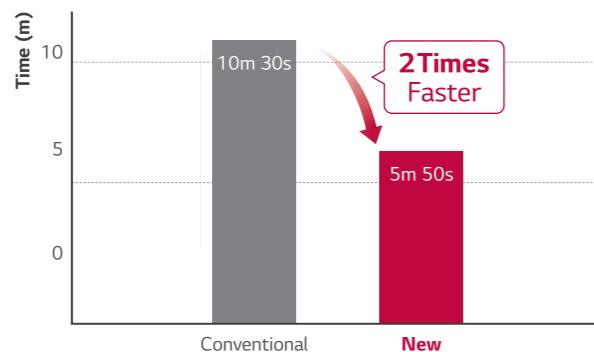
##### Cooling Outlet

A larger, optimally designed cooling outlet emanates to large areas and cools spaces faster.

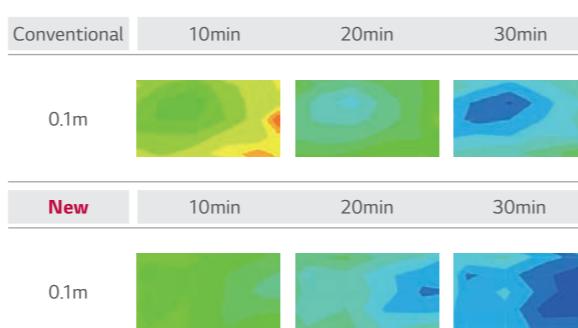


#### Test Result

##### Test Result



##### Changes in Temperature Over 30 Minutes



※ Test Conditions :  
Indoor temperature 33°C, Outdoor temperature 35°C,  
Relative humidity 60%, Setting temperature 26°C  
Test room size : 4.3 m \* 7.0 m \* 2.3 m

### Fast Heating

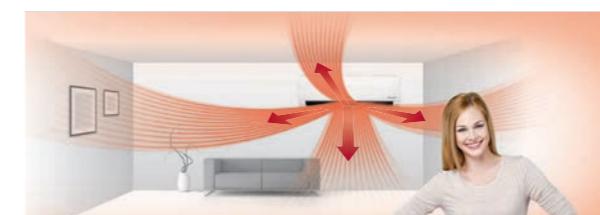
LG Residential Air Conditioners satisfy your heating needs while consuming less energy, by heating a wider space in a shorter period of time to create a warm and comfortable living environment.

※ Specifications may vary for each model. ※ Depending on the experimental conditions.

#### How It Works

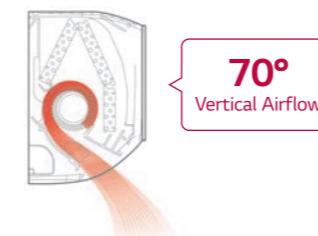
##### 4 Way Auto Swing (Easy Airflow Control)

4 Way Auto Swing adjusts airflow based on the surrounding environment, allowing for optimal distribution of warm air to living areas and enabling quick heating.



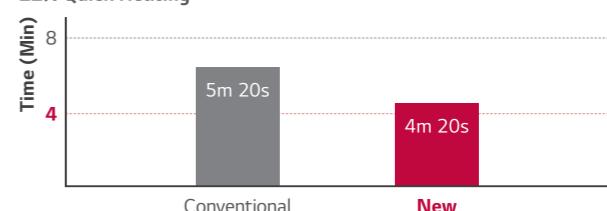
##### Vertical Airflow

When heating, the vane sends heated air downwards to maintain a pleasant and balanced room temperature.



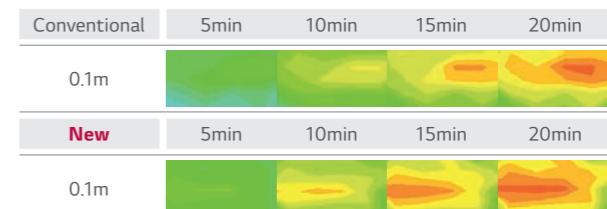
#### Benefit & Test Result

##### 22% Quick Heating



※ Test Conditions :  
Outdoor temperature : 7°C, Indoor temperature : 12°C,  
Humidity : 87%, Remote control : 30°C Power

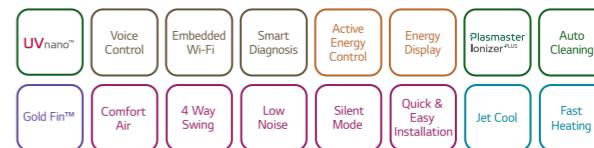
##### Changes in Temperature Over 20 Minutes



※ Test Conditions :  
Outdoor temperature : 7°C, Indoor temperature : 12°C,  
Humidity : 87%, Remote control : 30°C Power



LG participates in the ECP programme for EUROVENT VRF program.  
Check ongoing validity of certification : [www.eurovent-certification.com](http://www.eurovent-certification.com)



LG participates in the ECP programme for EUROVENT VRF program.  
Check ongoing validity of certification : [www.eurovent-certification.com](http://www.eurovent-certification.com)

### Single Combination

UNIT		9K	12K
INDOOR		A09FT NSF	A12FT NSF
Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.70
Capacity	Heating	Min. / Rated / Max.	kW
	Heating	Min. / Rated / Max.	0.89 / 3.30 / 4.10
	Heating -7°C	Rated	kW
			3.20
Power Input	Cooling / Heating	Rated	W
			658 / 831
EER		W/W	
			3.80
S.E.E.R.			6.80
P design C		kW	2.50
COP		W/W	3.97
S.C.O.P.	(Average / Warmer)		4.00 / 4.60
P design H (Average / Warmer)		kW	2.70 / 1.50
Energy Label	Cooling		A++
(A+++ to D Scale)	Heating	(Average / Warmer)	A+ / A++
Annual Energy Consumption	Cooling	kWh	129
	Heating	(Average / Warmer)	945 / 457
Sound Pressure	Cooling	S / L / M / H	27 / 35 / 39 / 45
	Heating	L / M / H	dB(A) 35 / 39 / 45
Sound Power	Cooling	dB(A)	60
	Air Flow Rate	S / L / M / H / Max. (Power)	6.0 / 7.6 / 9.0 / 10.0
	Heating	L / M / H	m³/min 6.1 / 7.8 / 9.3
Dehumidification Rate		l/h	1.1
Running Current	Cooling	Min. / Rated / Max.	A
	Heating	Min. / Rated / Max.	A
Starting Current	Cooling / Heating	Rated	A
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Circuit Breaker			15
Power Supply Cable	N x mm²	3 x 1.0	3 x 1.0
Power & Transmission Cable	N x mm²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension	mm	600 x 600 x 146	600 x 600 x 146
Net Weight	kg	14.4	14.4
Fan Motor Output	W	16.7	16.7
OUTDOOR		A09FT UL2	A12FT UL2
Operation Range	Cooling	Min. / Max.	°C DB
	Heating	Min. / Max.	°C DB
Sound Pressure	Cooling / Heating	High	dB(A)
		51 / 51	51 / 51
Sound Power	Cooling	High	dB(A)
		65	65
Air Flow Rate	High	m³/min	35
Piping	Liquid (ODU / IDU)	Min. / Max.	m
	Elevation (ODU / IDU)	Min. / Max.	m
		3 / 20	3 / 20
	Liquid	OD (Outside)	mm (inch)
Piping Connection	Gas	OD (Outside)	mm (inch)
		6.35 (1/4)	9.52 (3/8)
Drain Hose Size	OD (Outside)	mm (inch)	21.5 (27/32)
	Type	R32	R32
Refrigerant	Charge at 7.5m	kg	0.800
	Additional Charge	t-CO₂ eq	0.540
	GWP	g/m	20
Fan Motor Output		W	43
Compressor Type		Inverter Twin Rotary	Inverter Twin Rotary
Net Weight	kg	34.4	34.4
Dimension	mm	770 x 545 x 288	770 x 545 x 288
ACCESSORIES & OTHERS		-	-
Multi Compatible		Y	Y
PI 485		Y	Y
Dry Contact		Y	Y
Wired Remote Controller		-	-

※ This product contains Fluorinated greenhouse gases (R32).

※ S : Sleep / L : Low / M : Medium / H : High

※ GWP : Global warming potential

※ t-CO₂ eq : F-gas(kg)\*GWP/1000

※ Specification, design and feature are subject to change without prior notice.

### Single Combination

UNIT		9K	12K	18K	24K
INDOOR		AC09BH NSJ	AC12BH NSJ	AC18BH NSK	AC24BH NSK
Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.70	0.89 / 3.50 / 4.04	0.90 / 5.00 / 5.50
Capacity	Heating	Min. / Rated / Max.	kW	0.89 / 3.30 / 4.10	0.90 / 5.80 / 6.40
	Heating	Min. / Rated / Max.	kW	2.60	3.00
	Heating -7°C	Rated	kW	3.00	4.20
Power Input	Cooling / Heating	Rated	W	656 / 800	1,080 / 1,050
EER		W/W		3.81	3.24
S.E.E.R.				7.00	6.60
P design C		kW		2.50	3.50
COP		W/W		4.13	3.81
S.C.O.P.	(Average / Warmer)			4.00 / 4.90	4.00 / 4.90
P design H (Average / Warmer)		kW		2.50 / 1.30	2.50 / 1.30
Energy Label	Cooling			A++	A++
(A+++ to D Scale)	Heating	(Average / Warmer)		A+ / A++	A+ / A++
Annual Energy Consumption	Cooling	kWh		125	186
	Heating	(Average / Warmer)		875 / 371	875 / 371
Sound Pressure	Cooling	S / L / M / H	dB(A)	19 / 27 / 35 / 41	19 / 27 / 35 / 41
	Heating	L / M / H	dB(A)	27 / 35 / 41	27 / 35 / 41
Sound Power	Cooling	dB(A)		59	59
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m³/min	3.0 / 4.2 / 7.5 /	3.0 / 4.2 / 7.5 /
	Heating	L / M / H	m³/min	10.0 / 12.5	10.0 / 12.5
Dehumidification Rate		l/h		1.1	1.3
Running Current	Cooling	Min. / Rated / Max.	A	1.10 / 3.30 / 6.00	1.10 / 4.70 / 6.00
	Heating	Min. / Rated / Max.	A	1.10 / 4.00 / 7.00	1.10 / 4.70 / 7.00
Starting Current	Cooling / Heating	Rated	A	3.20 / 4.10	4.90 / 5.10
Power Supply		Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker				15	15
Power Supply Cable	N x mm²	3 x 1.0	3 x 1.0	3 x 1.0	3 x 1.0
Power & Transmission Cable	N x mm²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension	mm	600 x 308 x 192	600 x 308 x 192	998 x 345 x 212	998 x 345 x 212
Net Weight	kg	9.9	9.9	12.8	13.5
Fan Motor Output	W	30	30	30	58
OUTDOOR		AC09BH UA3	AC12BH UA3	AC18BH UL2	AC24BH U24
Operation Range	Cooling	Min. / Max.	°C DB	-10 / 48	-10 / 48
	Heating	Min. / Max.	°C DB	-10 / 24	-10 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	48 / 50	48 / 50
				53 / 55	54 / 57
Sound Power	Cooling	High	dB(A)	65	65
				65	70
Air Flow Rate	High	m³/min	27	27	35
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 15	3 / 15
	Elevation (ODU / IDU)	Min. / Max.	m	7	7
				10	15
Piping Connection	Liquid	OD (Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)
	Gas	OD (Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)
Drain Hose Size	OD (Outside)	mm (inch)	mm (inch)	21.5 (27/32)	21.5 (27/32)
	Type	R32	R32	R32	R32
Refrigerant	Charge at 7.5m	kg	t-CO₂ eq	0.700	0.700
	Additional Charge	g/m		0.473	0.473
	GWP			675	675
Fan Motor Output		W		43	43
Compressor Type				Inverter Twin Rotary	Inverter Twin Rotary
Net Weight	kg	26.0	26.0	35.2	46.4
Dimension	mm	717 X 495 X 230	717 X 495 X 230	770 X 545 X 288	870 X 650 X 330
ACCESSORIES & OTHERS		-	-	Y	Y
Multi Compatible		Y	Y	Y	Y
PI 485		-	-	-	-
Dry Contact		Y	Y	Y	Y
Wired Remote Controller		Y	Y	Y	Y

※ This product contains Fluorinated greenhouse gases (R32).

※ S : Sleep / L : Low / M : Medium / H : High

※ GWP : Global warming potential

※ t-CO₂ eq : F-gas(kg)\*GWP/1000

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# DUALCOOL with AIR PURIFICATION

## DUALCOOL PRESTIGE



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### Single Combination

UNIT	INDOOR	9K	12K
	F09MT NSM	F12MT NSM	
Cooling	Min. / Rated / Max. kW	0.90 / 2.50 / 4.00	0.90 / 3.50 / 4.25
Capacity	Heating Min. / Rated / Max. kW	0.90 / 3.20 / 6.90	0.90 / 4.00 / 7.32
	Heating -7°C Rated kW	4.30	4.70
Power Input	Cooling / Heating Rated W	490 / 593	833 / 785
EER	W/W	5.10	4.20
S.E.E.R.		9.40	9.10
P design C	kW	2.50	3.50
COP	W/W	5.40	5.10
S.C.O.P.	(Average / Warmer)	5.10 / 6.60	5.10 / 6.60
P design H (Average / Warmer)	kW	3.70 / 2.05	3.80 / 2.05
Energy Label	Cooling (A+++ to D Scale)	A+++	A+++
	Heating (Average / Warmer)	A+++ / A+++	A+++ / A+++
Annual Energy Consumption	Cooling kWh	93	135
	Heating (Average / Warmer) kWh	1,016 / -	1,043 / -
Sound Pressure	Cooling S / L / M / H dB(A)	19 / 27 / 35 / 40	19/27/35/40
	Heating L / M / H dB(A)	27 / 35 / 40	27 / 35 / 40
Sound Power	Cooling dB(A)	60	60
Air Flow Rate	Cooling S / L / M / H / Max. (Power) m³/min	6.6 / 8.7 / 11.1 / 12.4 / 15.5	6.6 / 8.7 / 11.1 / 12.4 / 15.5
	Heating L / M / H m³/min	8.7 / 11.1 / 14.3	8.7 / 11.1 / 14.3
Dehumidification Rate	I/h	1.7	1.7
Running Current	Cooling Min. / Rated / Max. A	1.00 / 3.80 / 8.10	1.00 / 6.10 / 8.10
	Heating Min. / Rated / Max. A	1.00 / 4.60 / 8.80	1.00 / 5.80 / 8.80
Starting Current	Cooling / Heating Rated A	3.80 / 4.60	6.10 / 5.80
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker	A	15	15
Power Supply Cable	N x mm²	3 x 1.0	3 x 1.0
Power & Transmission Cable	N x mm²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension	mm	857 x 295 x 235	857 x 295 x 235
Net Weight	kg	11.0	11.0
Fan Motor Output	W	30	30
OUTDOOR	F09MT U24	F12MT U24	
Operation Range	Cooling Min. / Max. °C DB	-10 / 48	-10 / 48
	Heating Min. / Max. °C DB	-25 / 24	-25 / 24
Sound Pressure	Cooling / Heating High dB(A)	48 / 50	48 / 50
Sound Power	Cooling High dB(A)	65	65
Air Flow Rate	High m³/min	49	49
Piping	Liquid (ODU / IDU) Min. / Max. m	3 / 20	3 / 20
	Elevation (ODU / IDU) Min. / Max. m	10	10
Piping Connection	Liquid OD (Outside) mm (inch)	6.35 (1/4)	6.35 (1/4)
	Gas OD (Outside) mm (inch)	9.52 (3/8)	9.52 (3/8)
Drain Hose Size	OD (Outside) mm (inch)	21.5 (27/32)	21.5 (27/32)
	Type	R32	R32
Refrigerant	Charge at 7.5m kg	1.000	1.000
	t-CO₂ eq	0.675	0.675
	Additional Charge g/m	20	20
	GWP	675	675
Fan Motor Output	W	85	85
Compressor Type		Inverter Twin Rotary	Inverter Twin Rotary
Net Weight	kg	43.0	43.0
Dimension	mm	870 x 650 x 330	870 x 650 x 330
ACCESSORIES & OTHERS			
Multi Compatible		Y	Y
PI 485		-	-
Dry Contact		Y	Y
Wired Remote Controller		Y	Y

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※ t-CO₂eq : F-gas(kg)\*GWP/1000

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### Single Combination

UNIT	INDOOR	9K	12K
	AP09RT NSJ	AP12RT NSJ	
Cooling	Min. / Rated / Max. kW	0.89 / 2.50 / 3.70	0.89 / 3.50 / 4.00
Capacity	Heating Min. / Rated / Max. kW	0.89 / 3.30 / 4.10	0.89 / 4.00 / 4.70
	Heating -7°C Rated kW	2.60	3.00
Power Input	Cooling / Heating Rated W	710 / 850	1,160 / 1,130
EER	W/W	3.52	3.02
S.E.E.R.		6.60	6.20
P design C	kW	2.50	3.50
COP	W/W	3.88	3.54
S.C.O.P.	(Average / Warmer)	4.0 / 5.0	4.0 / 5.0
P design H (Average / Warmer)	kW	2.5 / 1.4	2.5 / 1.4
Energy Label	Cooling (A++ to D Scale)	A++	A++
	Heating (Average / Warmer)	A+ / A++	A+ / A++
Annual Energy Consumption	Cooling kWh	133	198
	Heating (Average / Warmer) kWh	875 / 393	875 / 393
Sound Pressure	Cooling S / L / M / H dB(A)	21 / 27 / 35 / 42	21 / 27 / 35 / 42
	Heating L / M / H dB(A)	30 / 35 / 41	30 / 35 / 41
Sound Power	Cooling dB(A)	59	59
Air Flow Rate	Cooling S / L / M / H / Max. (Power) m³/min	3.0 / 4.2 / 6.6 / 10.0 / 11.0	3.0 / 4.2 / 6.6 / 10.0 / 11.0
	Heating L / M / H m³/min	4.2 / 6.6 / 10.0	4.2 / 6.6 / 10.0
Dehumidification Rate	I/h	1.10	1.30
Running Current	Cooling Min. / Rated / Max. A	1.1 / 3.5 / 6.0	1.1 / 5.2 / 6.2
	Heating Min. / Rated / Max. A	1.1 / 4.0 / 7.0	1.1 / 5.1 / 7.0
Starting Current	Cooling / Heating Rated A	3.50 / 4.00	5.20 / 5.10
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker	A	15	15
Power Supply Cable	N x mm²	3 x 1.0	3 x 1.0
Power & Transmission Cable	N x mm²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension	mm	857 x 348 x 189	857 x 348 x 189
Net Weight	kg	9.5	9.5
Fan Motor Output	W	30	30
OUTDOOR	AP09RT UA3	AP12RT UA3	
Operation Range	Cooling Min. / Max. °C DB	-10 / 48	-10 / 48
	Heating Min. / Max. °C DB	-10 / 24	-10 / 24
Sound Pressure	Cooling / Heating High dB(A)	48 / 50	48 / 50
Sound Power	Cooling High dB(A)	65	65
Air Flow Rate	High m³/min	27	27
Piping	Liquid (ODU / IDU) Min. / Max. m	3 / 15	3 / 15
	Elevation (ODU / IDU) Min. / Max. m	7	7
Piping Connection	Liquid OD (Outside) mm (inch)	6.35 (1/4)	6.35 (1/4)
	Gas OD (Outside) mm (inch)	9.52 (3/8)	9.52 (3/8)
Drain Hose Size	OD (Outside) mm (inch)	21.5 (27/32)	21.5 (27/32)
	Type	R32	R32
Refrigerant	Charge at 7.5m kg	0.700	0.700
	t-CO₂ eq	0.473	0.473
	Additional Charge g/m	20	20
	GWP	675	675
Fan Motor Output	W	43	43
Compressor Type		Inverter Twin Rotary	Inverter Twin Rotary
Net Weight	kg	26	26
Dimension	mm	717 x 495 x 230	717 x 495 x 230
ACCESSORIES & OTHERS			
Multi Compatible		Y	Y
PI 485		-	-
Dry Contact		Y	Y
Wired Remote Controller		Y	Y

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※ t-CO₂eq : F-gas(kg)\*GWP/1000

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# DUALCOOL DELUXE



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## Single Combination

UNIT		9K	12K	18K	24K		
INDOOR		DC09RH NSJ	DC12RH NSJ	DC18RH NSK	DC24RH NSK		
Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.70	0.89 / 3.50 / 4.04	0.90 / 5.00 / 5.50	0.90 / 6.60 / 7.42	
Capacity	Heating	Min. / Rated / Max.	kW	0.89 / 3.20 / 5.00	0.89 / 4.00 / 6.00	0.90 / 5.80 / 6.40	0.90 / 7.50 / 8.64
Heating -7°C	Rated	kW	3.20	3.50	4.20	6.00	
Power Input	Cooling / Heating	Rated	W	572 / 711	933 / 976	1,562 / 1,611	2,164 / 2,238
EER		W/W		4.37	3.75	3.20	3.05
S.E.E.R.				7.90	7.60	7.00	6.90
P design C		kW		2.50	3.50	5.00	6.60
COP		W/W		4.50	4.10	3.60	3.35
S.C.O.P	(Average / Warmer)			4.60 / 5.40	4.60 / 5.40	4.30 / 5.30	4.30 / 5.30
P design H (Average / Warmer)		kW		2.80 / 1.50	2.90 / 1.50	3.90 / 2.10	5.00 / 2.70
Energy Label (A+++ to D Scale)	Cooling		A++	A++	A++	A++	A++
Heating	(Average / Warmer)		A++ / A++	A++ / A++	A+ / A+++	A+ / A+++	A+ / A+++
Annual Energy Consumption	Cooling	kWh	111	161	250	335	
Heating	(Average / Warmer)	kWh	852 / 389	883 / 389	1,270 / 555	1,628 / 713	
Sound Pressure	Cooling	S / L / M / H	dB(A)	19 / 27 / 37 / 42	19 / 27 / 37 / 42	31 / 34 / 39 / 44	31 / 34 / 42 / 47
Heating	L / M / H	dB(A)		27 / 37 / 42	27 / 37 / 42	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling	dB(A)		60	60	60	65
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m³/min	3.5 / 5.5 / 9.0 / 11.0 / 13.0	3.5 / 5.5 / 9.0 / 11.0 / 13.0	8.0 / 10.5 / 13.0 / 14.5 / 15.5	8.0 / 10.5 / 13.0 / 16.1 / 18.3
Heating	L / M / H	m³/min		6.5 / 9.0 / 11.0	6.5 / 9.0 / 11.0	11.0 / 13.5 / 16.0	11.0 / 14.3 / 17.6
Dehumidification Rate		l/h		1.1	1.3	1.8	2.5
Running Current	Cooling	Min. / Rated / Max.	A	1.00 / 2.50 / 6.00	1.00 / 4.00 / 6.00	1.20 / 6.90 / 9.00	1.20 / 9.80 / 14.00
Heating	Min. / Rated / Max.	A		1.00 / 3.20 / 7.00	1.00 / 4.30 / 7.00	1.20 / 7.10 / 9.50	1.20 / 10.40 / 14.00
Starting Current	Cooling / Heating	Rated	A	2.50 / 3.20	4.00 / 4.30	6.90 / 7.10	9.80 / 10.00
Power Supply		Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker		A		15	15	20	25
Power Supply Cable		N x mm²	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5	
Power & Transmission Cable		N x mm²	4 x 1.0	4 x 1.0	4 x 1.0	4 x 1.0	
Dimension		mm	837 x 308 x 189	837 x 308 x 189	998 x 345 x 210	998 x 345 x 210	
Net Weight		kg	9.1	9.1	11.9	12.7	
Fan Motor Output		W	30	30	30	58	
OUTDOOR		DC09RH UL2	DC12RH UL2	DC18RH UL2	DC24RH U24		
Operation Range	Cooling	Min. / Max.	°C DB	-15 / 48	-15 / 48	-15 / 48	-15 / 48
Heating	Min. / Max.	°C DB		-15 / 24	-15 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	49 / 51	49 / 51	53 / 55	54 / 57
Sound Power	Cooling	High	dB(A)	65	65	65	70
Air Flow Rate	High	m³/min		35	35	35	49
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 20	3 / 20	3 / 20	3 / 30
Elevation (ODU / IDU)	Min. / Max.	m		10	10	10	15
Piping Connection	Liquid OD (Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	
Gas	OD (Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	
Drain Hose Size	OD (Outside)	mm (inch)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)	
Type		R32	R32	R32	R32		
Refrigerant	Charge at 7.5m	kg	0.800	0.800	1.000	1.100	
Additional Charge	t-CO₂ eq	0.540	0.540	0.675	0.743		
GWP		g/m	20	20	20	20	
Fan Motor Output		W	675	675	675	675	
Compressor Type		Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary		
Net Weight		kg	34.1	34.1	34.4	46.0	
Dimension		mm	770 x 545 x 288	770 x 545 x 288	770 x 545 x 288	870 x 650 x 330	
ACCESSORIES & OTHERS							
Multi Compatible		Y	Y	Y	Y		
PI 485		Y	Y	Y	Y		
Dry Contact		Y	Y	Y	Y		
Wired Remote Controller		Y	Y	Y	Y		

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※ t-CO₂eq : F-gas(kg)\*GWP/1000

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## Single Combination

UNIT		9K	12K	
INDOOR		DC09RT NSJ	DC12RT NSJ	
Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.70	
Capacity	Heating	Min. / Rated / Max.	kW	0.89 / 3.30 / 4.10
Heating -7°C	Rated	kW		2.60
Power Input	Cooling / Heating	Rated	W	656 / 800
EER		W/W		3.81
S.E.E.R.				7.00
P design C		kW		2.50
COP		W/W		4.13
S.C.O.P	(Average / Warmer)			4.00 / 4.90
P design H (Average / Warmer)		kW		2.50 / 1.30
Energy Label (A+++ to D Scale)	Cooling		A++	A++
Heating	(Average / Warmer)		A+ / A++	A+ / A++
Annual Energy Consumption	Cooling	kWh		125
Heating	(Average / Warmer)	kWh		875 / 371
Sound Pressure	Cooling	S / L / M / H	dB(A)	19 / 27 / 35 / 41
Heating	L / M / H	dB(A)		27 / 35 / 41
Sound Power	Cooling	dB(A)		59
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m³/min	3.0 / 4.2 / 7.5 / 10.0 / 12.5
Heating	L / M / H	m³/min		5.6 / 7.2 / 10.0
Dehumidification Rate		l/h		1.1
Running Current	Cooling	Min. / Rated / Max.	A	1.10 / 3.30 / 6.00
Heating	Min. / Rated / Max.	A		1.10 / 4.70 / 7.00
Starting Current	Cooling / Heating	Rated	A	3.30 / 4.00
Power Supply		Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker		A		15
Power Supply Cable		N x mm²	3 x 1.0	3 x 1.0
Power & Transmission Cable		N x mm²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension		mm	837 x 308 x 189	837 x 308 x 189
Net Weight		kg	9.1	9.1
Fan Motor Output		W	30	30
OUTDOOR		DC09RT UA3	DC12RT UA3	
Operation Range	Cooling	Min. / Max.	°C DB	-10 / 48
Heating	Min. / Max.	°C DB		-10 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	48 / 50
Sound Power	Cooling	High	dB(A)	65
Air Flow Rate	High	m³/min		27
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 15
Elevation (ODU / IDU)	Min. / Max.	m		7
Piping Connection	Liquid	OD (Outside)	mm (inch)	6.35 (1/4)
Gas	OD (Outside)	mm (inch)		9.52 (3/8)
Drain Hose Size	OD (Outside)	mm (inch)		21.5 (27/32)
Type		R32	R32	R32
Refrigerant	Charge at 7.5m	kg	0.700	0.700

**DUALCOOL STANDARD PLUS****DUALCOOL STANDARD PLUS**

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**Single Combination**

UNIT		9K	12K	18K	24K		
INDOOR		PC09SQ NSJ	PC12SQ NSJ	PC18SQ NSK	PC24SQ NSK		
Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.70	0.89 / 3.50 / 4.04	0.90 / 5.00 / 5.50	0.90 / 6.60 / 7.42	
Capacity	Heating	Min. / Rated / Max.	kW	0.89 / 3.30 / 4.10	0.89 / 4.00 / 5.10	0.90 / 5.80 / 6.40	0.90 / 7.50 / 8.64
Heating -7°C	Rated	kW	2.60	3.00	4.20	6.00	
Power Input	Cooling / Heating	Rated	W	656 / 800	1,080 / 1,050	1,562 / 1,611	2,164 / 2,238
EER		W/W	3.81	3.24	3.20	3.05	
S.E.E.R.			7.00	6.60	7.00	6.90	
P design C		kW	2.50	3.50	5.00	6.60	
COP		W/W	4.13	3.81	3.60	3.35	
S.C.O.P.	(Average / Warmer)		4.00 / 4.90	4.00 / 4.90	4.30 / 5.30	4.30 / 5.30	
P design H (Average / Warmer)		kW	2.50 / 1.30	2.50 / 1.30	3.90 / 2.10	5.00 / 2.70	
Energy Label	Cooling		A++	A++	A++	A++	
(A+++ to D Scale)	Heating	(Average / Warmer)	A+ / A++	A+ / A++	A+ / A+++	A+ / A+++	
Annual Energy Consumption	Cooling	kWh	125	186	250	335	
Heating	(Average / Warmer)	kWh	875 / 371	875 / 371	1,270 / 555	1,628 / 713	
Sound Pressure	Cooling	S / L / M / H	dB(A)	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44	31 / 34 / 42 / 47
Heating	L / M / H	dB(A)	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44	34 / 42 / 47	
Sound Power	Cooling	dB(A)	59	59	60	65	
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m³/min	3.0 / 4.2 / 7.5 / 10.0 / 12.5	3.0 / 4.2 / 7.5 / 10.0 / 12.5	8.0 / 10.5 / 13.0 / 14.5 / 15.5	8.0 / 10.5 / 13.0 / 16.1 / 18.3
Heating	L / M / H	m³/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	11.0 / 14.3 / 17.6	
Dehumidification Rate		l/h	1.1	1.3	1.8	2.5	
Running Current	Cooling	Min. / Rated / Max.	A	1.10 / 3.30 / 6.00	1.10 / 4.70 / 6.00	1.20 / 6.90 / 9.00	1.20 / 9.80 / 14.00
Heating	Min. / Rated / Max.	A	1.10 / 4.00 / 7.00	1.10 / 4.70 / 7.00	1.20 / 7.10 / 9.50	1.20 / 10.00 / 14.00	
Starting Current	Cooling / Heating	Rated	A	3.30 / 4.00	4.70 / 4.70	6.90 / 7.10	9.80 / 10.00
Power Supply		Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker		A	15	15	20	25	
Power Supply Cable		N x mm²	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5	
Power & Transmission Cable		N x mm²	4 x 1.0	4 x 1.0	4 x 1.0	4 x 1.0	
Dimension		mm	837 x 308 x 189	837 x 308 x 189	998 x 345 x 210	998 x 345 x 210	
Net Weight		kg	8.7	8.7	11.9	12.7	
Fan Motor Output		W	30	30	30	58	
OUTDOOR		PC09SQ UA3	PC12SQ UA3	PC18SQ UL2	PC24SQ U24		
Operation Range	Cooling	Min. / Max.	°C DB	-10 / 48	-10 / 48	-15 / 48	
Heating	Min. / Max.	°C DB	-10 / 24	-10 / 24	-10 / 24	-10 / 24	
Sound Pressure	Cooling / Heating	High	dB(A)	48 / 50	48 / 50	53 / 55	
Sound Power	Cooling	High	dB(A)	65	65	70	
Air Flow Rate	High	m³/min	27	27	35	49	
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 15	3 / 15	3 / 20	
Elevation (ODU / IDU)	Min. / Max.	m	7	7	10	15	
Piping Connection	Liquid OD (Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	
Gas	OD (Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	
Drain Hose Size	OD (Outside)	mm (inch)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)	
Type		R32	R32	R32	R32		
Refrigerant	Charge at 7.5m	kg	0.700	0.700	1.000	1.100	
	t-CO₂ eq	0.473	0.473	0.675	0.743		
Additional Charge	g/m	20	20	20	20		
	GWP	675	675	675	675		
Fan Motor Output		W	43	43	43	85	
Compressor Type		Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary		
Net Weight		kg	25.1	25.1	34.4	46.0	
Dimension		mm	717 x 495 x 230	717 x 495 x 230	770 x 545 x 288	870 x 650 x 330	
ACCESSORIES & OTHERS							
Multi Compatible		Y	Y	Y	Y		
PI 485		-	-	-	-		
Dry Contact		Y	Y	Y	Y		
Wired Remote Controller		Y	Y	Y	Y		

※ This product contains Fluorinated greenhouse gases (R32).  
※ S : Sleep / L : Low / M : Medium / H : High

※ GWP : Global warming potential

※ t-CO₂eq : F-gas(kg)\*GWP/1000

※ Specification, design and feature are subject to change without prior notice.



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**Single Combination**

UNIT		9K	12K	18K	24K		
INDOOR		SO9ET NSJ	S12ET NSJ	S18ET NSK	S24ET NSK		
Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.70	0.89 / 3.50 / 4.04	0.90 / 5.00 / 5.50	0.90 / 6.60 / 7.42	
Capacity	Heating	Min. / Rated / Max.	kW	0.89 / 3.30 / 4.10	0.89 / 4.00 / 5.10	0.90 / 5.80 / 6.40	0.90 / 7.50 / 8.64
Heating -7°C	Rated	kW	2.60	3.00	4.20	6.00	
Power Input	Cooling / Heating	Rated	W	656 / 800	1,080 / 1,050	1,562 / 1,611	2,164 / 2,238
EER		W/W	3.81	3.24	3.20	3.05	
S.E.E.R.			7.00	6.60	7.00	6.90	
P design C		kW	2.50	3.50	5.00	6.60	
COP		W/W	4.13	3.81	3.60	3.35	
S.C.O.P.	(Average / Warmer)		4.00 / 4.90	4.00 / 4.90	4.30 / 5.30	4.30 / 5.30	
P design H (Average / Warmer)		kW	2.50 / 1.30	2.50 / 1.30	3.90 / 2.10	5.00 / 2.70	
Energy Label	Cooling		A++	A++	A++	A++	
(A+++ to D Scale)	Heating	(Average / Warmer)	A+ / A++	A+ / A++	A+ / A+++	A+ / A+++	
Annual Energy Consumption	Cooling	kWh	125	186	250	335	
Heating	(Average / Warmer)	kWh	875 / 371	875 / 371	1,270 / 555	1,628 / 713	
Sound Pressure	Cooling	S / L / M / H	dB(A)	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44	31 / 34 / 42 / 47
Heating	L / M / H	dB(A)	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44	34 / 42 / 47	
Sound Power	Cooling	dB(A)	59	59	60	65	
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m³/min	3.0 / 4.2 / 7.5 / 10.0 / 12.5	3.0 / 4.2 / 7.5 / 10.0 / 12.5	8.0 / 10.5 / 13.0 / 14.5 / 15.5	8.0 / 10.5 / 13.0 / 16.1 / 18.3
Heating	L / M / H	m³/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	11.0 / 14.3 / 17.6	
Dehumidification Rate		l/h	1.1	1.3	1.8	2.5	
Running Current	Cooling	Min. / Rated / Max.	A	1.10 / 3.30 / 6.00	1.10 / 4.70 / 6.00	1.20 / 6.90 / 9.00	1.20 / 9.80 / 14.00
Heating	Min. / Rated / Max.	A	1.10 / 4.00 / 7.00	1.10 / 4.70 / 7.00	1.20 / 7.10 / 9.50	1.20 / 10.00 / 14.00	
Starting Current	Cooling / Heating	Rated	A	3.30 / 4.00	4.70 / 4.70	6.90 / 7.10	9.80 / 10.00
Power Supply		Ø/V/Hz	1 / 220-240				

# DUALCOOL STANDARD 3

## DUALCOOL STANDARD



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### Single Combination

UNIT	9K	12K	18K	24K
INDOOR	S09EQ NSJ	S12EQ NSJ	S18EQ NSK	S24EQ NSK
Cooling	Min. / Rated / Max. kW	0.89 / 2.50 / 3.70	0.89 / 3.50 / 4.04	0.90 / 5.00 / 5.50
Capacity	Heating Min. / Rated / Max. kW	0.89 / 3.30 / 4.10	0.89 / 4.00 / 5.10	0.90 / 5.80 / 6.40
	Heating -7°C Rated kW	2.60	3.00	4.20
Power Input	Cooling / Heating Rated W	656 / 800	1,080 / 1,050	1,562 / 1,611
EER	W/W	3.81	3.24	3.20
S.E.E.R.		7.00	6.60	7.00
P design C	kW	2.50	3.50	5.00
COP	W/W	4.13	3.81	3.60
S.C.O.P.	(Average / Warmer)	4.00 / 4.90	4.00 / 4.90	4.30 / 5.30
P design H (Average / Warmer)	kW	2.50 / 1.30	2.50 / 1.30	3.90 / 2.10
Energy Label (A+++ to D Scale)	Cooling Heating (Average / Warmer)	A++ A++	A++ A++	A++ A++
Annual Energy Consumption	Cooling kWh	125	186	250
	Heating (Average / Warmer) kWh	875 / 371	875 / 371	1,270 / 555
Sound Pressure	Cooling S / L / M / H dB(A)	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44
	Heating L / M / H dB(A)	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44
Sound Power	Cooling dB(A)	59	59	60
	Heating L / M / H dB(A)	59	59	65
Air Flow Rate	Cooling S / L / M / H / Max. (Power) m³/min	3.0 / 4.2 / 7.5 / 10.0 / 12.5	3.0 / 4.2 / 7.5 / 10.0 / 12.5	8.0 / 10.5 / 13.0 / 14.5 / 15.5
	Heating L / M / H m³/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0
Dehumidification Rate	l/h	1.1	1.3	1.8
Running Current	Cooling Min. / Rated / Max. A	1.10 / 3.30 / 6.00	1.10 / 4.70 / 6.00	1.20 / 6.90 / 9.00
	Heating Min. / Rated / Max. A	1.10 / 4.00 / 7.00	1.10 / 4.70 / 7.00	1.20 / 7.10 / 9.50
Starting Current	Cooling / Heating Rated A	3.30 / 4.00	4.70 / 4.70	6.90 / 7.10
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker	A	15	15	20
Power Supply Cable	N x mm²	3 x 1.0	3 x 1.0	3 x 1.5
Power & Transmission Cable	N x mm²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension	mm	837 x 308 x 189	837 x 308 x 189	998 x 345 x 210
Net Weight	kg	8.7	8.7	11.9
Fan Motor Output	W	30	30	58
OUTDOOR	S09EQ UA3	S12EQ UA3	S18EQ UL2	S24EQ U24
Operation Range	Cooling Min. / Max. °C DB	-10 / 48	-10 / 48	-15 / 48
	Heating Min. / Max. °C DB	-10 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling / Heating High dB(A)	48 / 50	48 / 50	53 / 55
Sound Power	Cooling High dB(A)	65	65	65
Air Flow Rate	High m³/min	27	27	35
Piping	Liquid (ODU / IDU) Min. / Max. m	3 / 15	3 / 15	3 / 20
	Elevation (ODU / IDU) Min. / Max. m	7	7	10
Piping Connection	Liquid OD (Outside) mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas OD (Outside) mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
Drain Hose Size	OD (Outside) mm (inch)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)
	Type R32	R32	R32	R32
Refrigerant	Charge at 7.5m kg	0.700	0.700	1.000
	t-CO₂ eq	0.473	0.473	0.675
	Additional Charge g/m	20	20	20
	GWP	675	675	675
Fan Motor Output	W	43	43	43
Compressor Type	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary
Net Weight	kg	25.1	25.1	34.4
Dimension	mm	717 x 495 x 230	717 x 495 x 230	770 x 545 x 288
ACCESSORIES & OTHERS				
Multi Compatible	-	-	-	-
PI 485	-	-	-	-
Dry Contact	-	-	-	-
Wired Remote Controller	-	-	-	-

※ This product contains Fluorinated greenhouse gases (R32).  
※ S : Sleep / L : Low / M : Medium / H : High

※ GWP : Global warming potential

※ t-CO₂eq : F-gas(kg)\*GWP/1000

※ Specification, design and feature are subject to change without prior notice.



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### Single Combination

UNIT	9K	12K
INDOOR	S09EH NSA	S12EW NSJ
Cooling	Min. / Rated / Max. kW	0.89 / 2.50 / 3.25
Capacity	Heating Min. / Rated / Max. kW	0.89 / 3.20 / 3.85
	Heating -7°C Rated kW	2.6
Power Input	Cooling / Heating Rated W	715 / 860
EER	W/W	3.50
S.E.E.R.		6.50
P design C	kW	2.5
COP	W/W	3.72
S.C.O.P.	(Average / Warmer)	4.0 / 4.8
P design H (Average / Warmer)	kW	2.3 / 1.3
Energy Label (A+++ to D Scale)	Cooling Heating (Average / Warmer)	A++ A++
Annual Energy Consumption	Cooling kWh	135
	Heating (Average / Warmer) kWh	805 / 379
Sound Pressure	Cooling S / L / M / H dB(A)	22 / 28 / 36 / 42
	Heating L / M / H dB(A)	31 / 36 / 42
Sound Power	Cooling dB(A)	60
	Heating L / M / H dB(A)	59
Air Flow Rate	Cooling S / L / M / H / Max. (Power) m³/min	2.0 / 5.7 / 8.0 / 9.5
	Heating L / M / H m³/min	4.0 / 5.5 / 8.5
Dehumidification Rate	l/h	1.10
Running Current	Cooling Min. / Rated / Max. A	1.1 / 3.3 / 6.0
	Heating Min. / Rated / Max. A	1.1 / 4.0 / 7.0
Starting Current	Cooling / Heating Rated A	3.3 / 4.0
Power Supply	Ø / V / Hz	1/220-240/50
Circuit Breaker	A	15
Power Supply Cable	N x mm²	3 x 1.0
Power & Transmission Cable	N x mm²	4 x 1.0 (Including Earth)
Dimension	mm	754 x 308 x 189
Net Weight	kg	7.8
Fan Motor Output	W	30
OUTDOOR	S09EH UA3	S12EW UA3
Operation Range	Cooling Min. / Max. °C DB	18 / 48
	Heating Min. / Max. °C DB	-5 / 24
Sound Pressure	Cooling / Heating High dB(A)	48 / 50
Sound Power	Cooling High dB(A)	65
Air Flow Rate	High m³/min	27
Piping	Liquid (ODU / IDU) Min. / Max. m	3 / 15
	Elevation (ODU / IDU) Min. / Max. m	7
Piping Connection	Liquid OD (Outside) mm (inch)	6.35 (1/4)
	Gas OD (Outside) mm (inch)	9.52 (3/8)
Drain Hose Size	OD (Outside) mm (inch)	21.5 (27/32)
	Type R32	R32
Refrigerant	Charge at 7.5m kg	0.670
	t-CO₂ eq	0.452
	Additional Charge g/m	20
	GWP	675
Fan Motor Output	W	43
Compressor Type		Inverter Twin Rotary
Net Weight	kg	26
Dimension	mm	717 x 495 x 230
ACCESSORIES & OTHERS		
Multi Compatible	-	-
PI 485	-	-
Dry Contact	-	-
Wired Remote Controller	-	-

※ This product contains Fluorinated greenhouse gases (R32).  
※ S : Sleep / L : Low / M : Medium / H : High

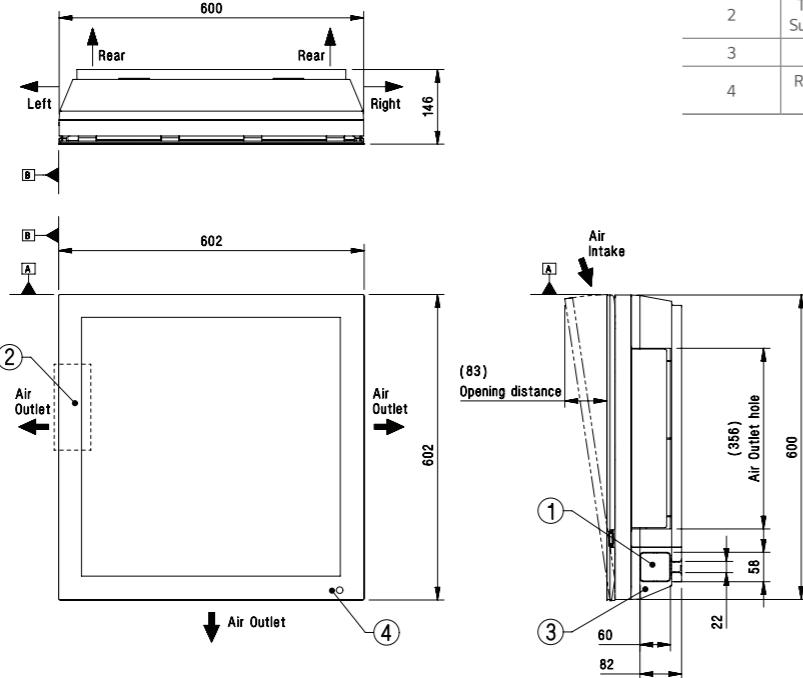
※ GWP : Global warming potential

※ t-CO₂eq : F-gas(kg)\*GWP/1000

※ Specification, design and feature are subject to change without prior notice.

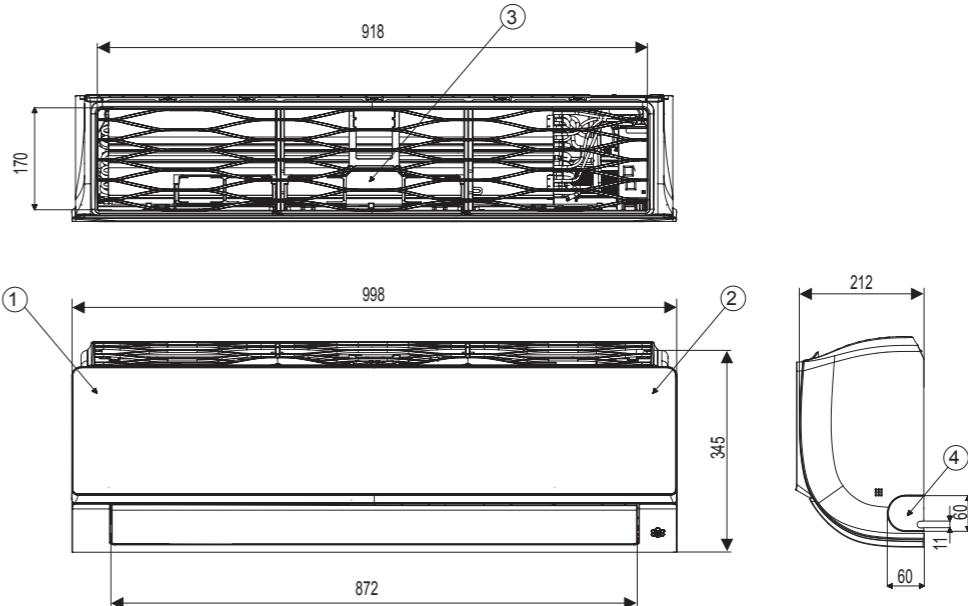
## INDOOR UNITS

A09FT NSF / A12FT NSF



ITEM NO.	PART NAME	REMARK
1	Refrigerant/Drain pipe and cable routing hole	Knock-out type
2	Terminal Block for Power Supply and Communication	Inside of front panel
3	Corner Cover	-
4	Remote Controller Signal Receiver	for wireless type

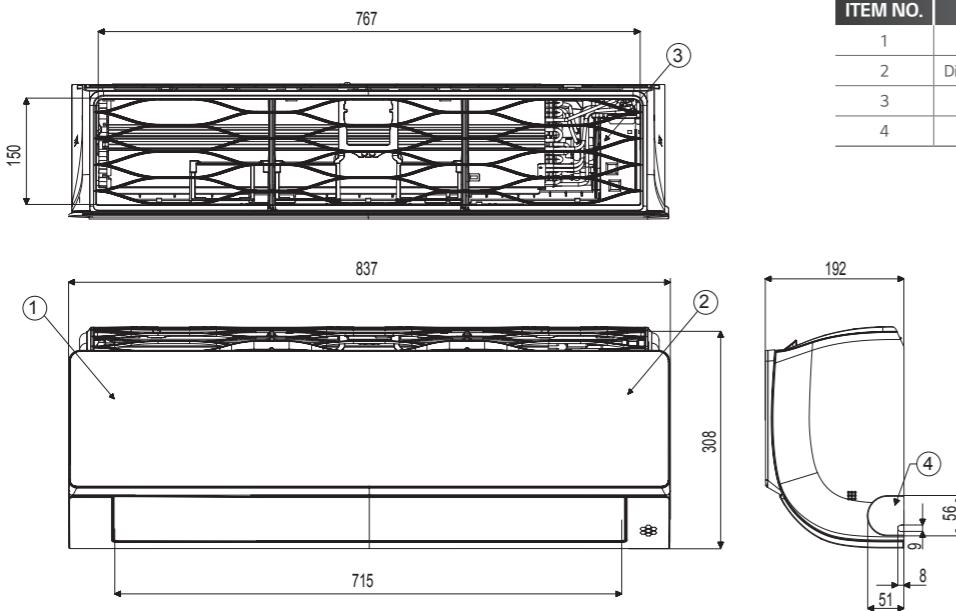
**AC18BH NSK / AC24BH NSK**



ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Display & Signal Receiver	
3	Air Suction Filter	
4	Installation Plate	

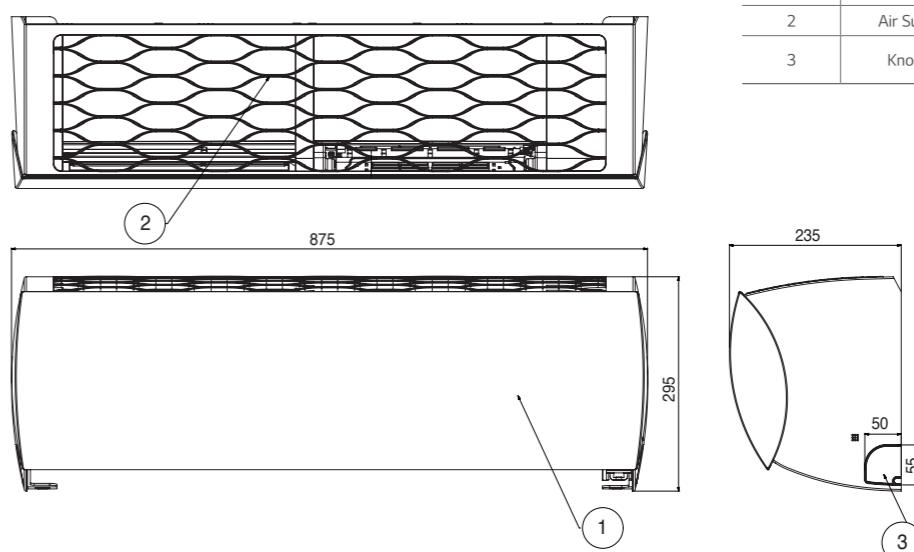
## INDOOR UNITS

AC09BH NSJ / AC12BH NSJ



ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Display & Signal Receiver	
3	Air Filter	
4	Knockout hole	For pipe and cable

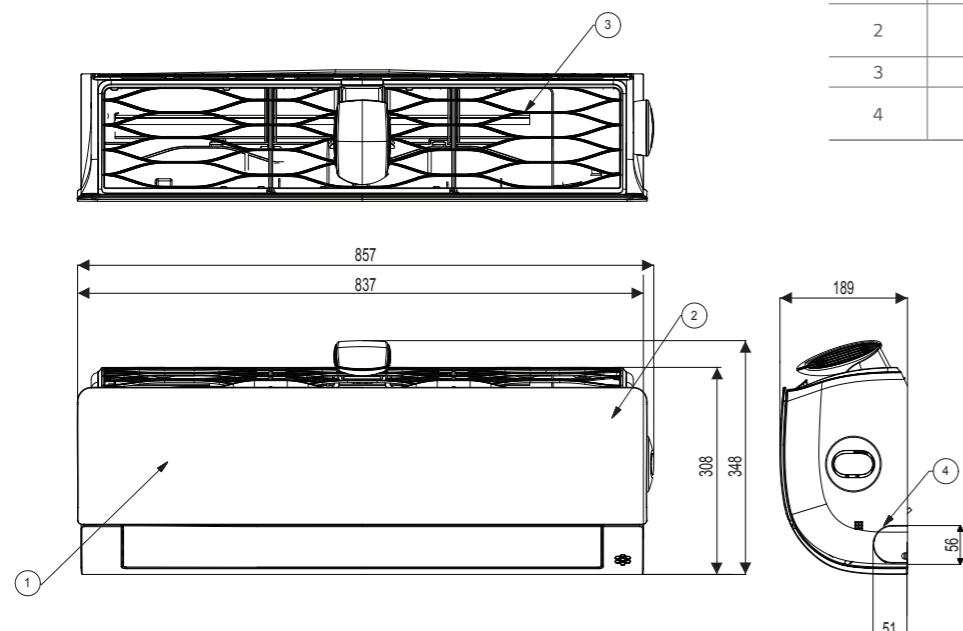
F09MT NSM / F12MT NSM



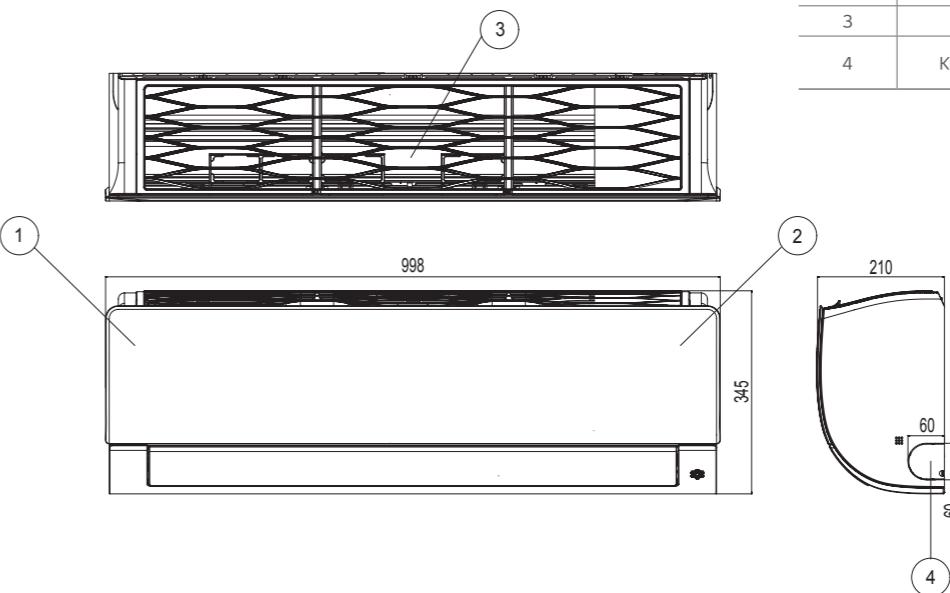
(Unit: mm)		
ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Air Suction Grille	
3	Knockout Hole	For pipe and cable

## INDOOR UNITS

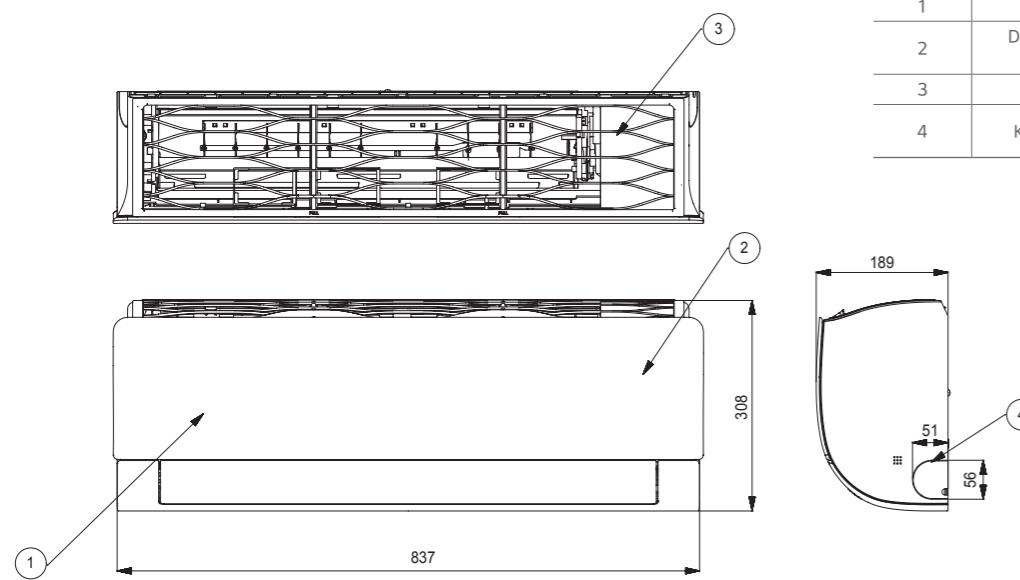
AP09RT NSJ / AP12RT NSJ



(Unit : mm)		
ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Display & Signal Receiver	Hidden
3	Air Filter	
4	Knockout hole	For pipe and cable

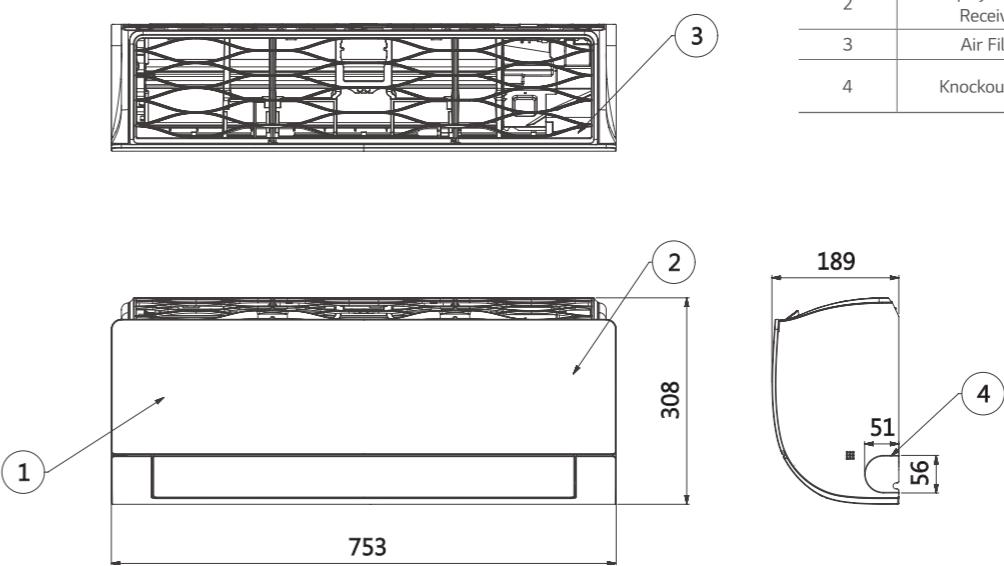
DC18RH NSK / DC24RH NSK / PC18SQ NSK / PC24SQ NSK  
S18EQ NSK / S24EQ NSK / S18ET NSK / S24ET NSK

(Unit : mm)		
ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Display & Signal Receiver	Hidden
3	Air Filter	
4	Knockout hole	For pipe and cable

DC09RH NSJ / DC12RH NSJ / DC09RT NSJ / DC12RT NSJ / PC09SQ NSJ  
PC12SQ NSJ / S09EQ NSJ / S12EQ NSJ / S09ET NSJ / S12ET NSJ / S12EW NSJ

(Unit : mm)		
ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Display & Signal Receiver	Hidden
3	Air Filter	
4	Knockout hole	For pipe and cable

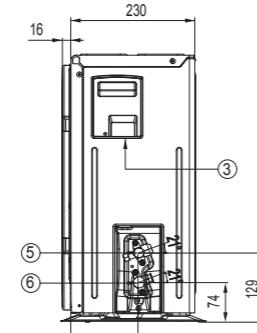
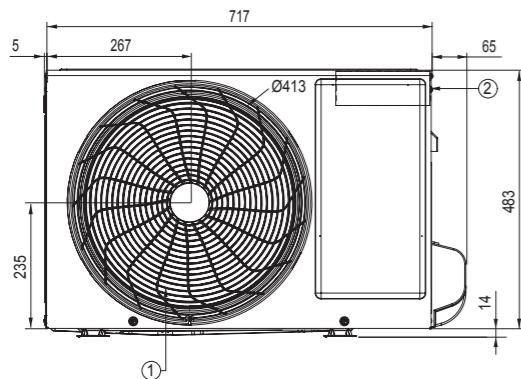
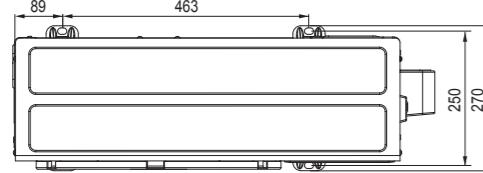
S09EH NSA



(Unit : mm)		
ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Display & Signal Receiver	Hidden
3	Air Filter	
4	Knockout hole	For pipe and cable

# OUTDOOR UNITS

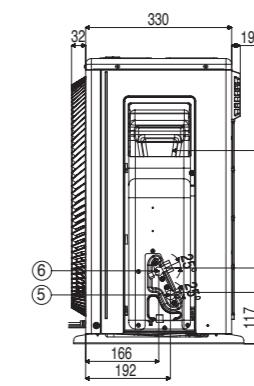
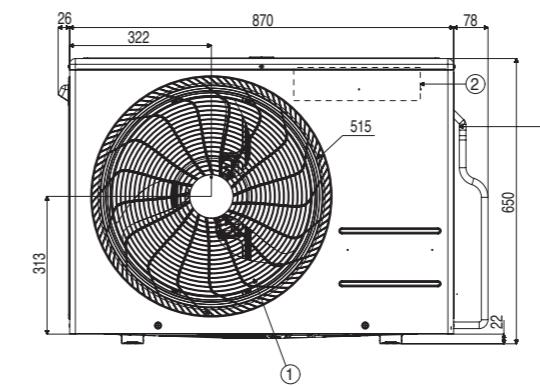
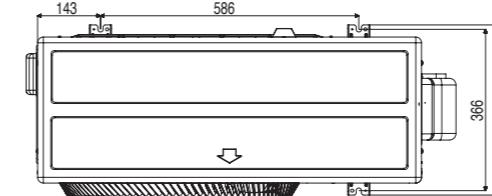
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 DC12RT UA3 / PC09SQ UA3 / PC12SQ UA3 / S09EQ UA3 / S12EQ UA3  
 S09ET UA3 / S12ET UA3 / S12EW UA3 / AP09RT UA3 / AP12RT UA3 / S09EH UA3



(Unit: mm)

ITEM NO.	PART NAME
1	Air Outlet
2	Control Box
3	Power and Communication Cable Hole
4	Service Valve Cover
5	Gas Pipe Connection
6	Liquid Pipe Connection

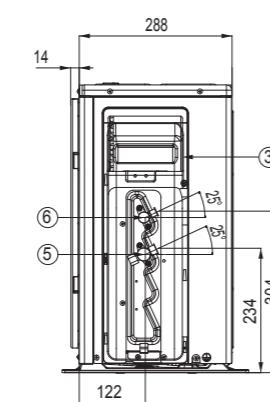
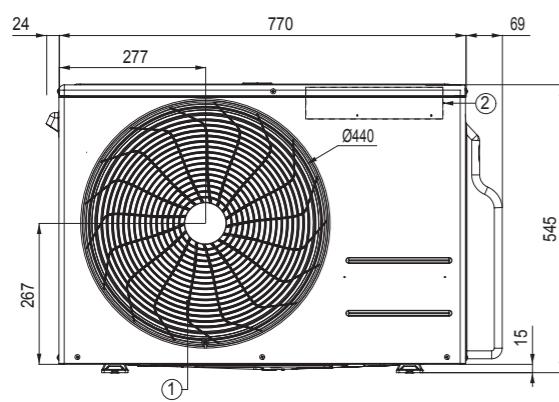
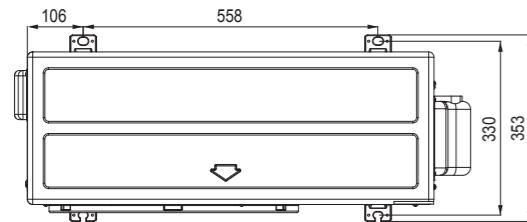
F09MT U24 / F12MT U24 / AC24BH U24 / DC24RH U24  
 PC24SQ U24 / S24EQ U24 / S24ET U24



(Unit: mm)

ITEM NO.	PART NAME
1	Air Outlet
2	Control Box
3	Power and Communication Cable Hole
4	Service Valve Cover
5	Gas Pipe Connection
6	Liquid Pipe Connection

A09FT UL2 / A12FT UL2 / DC09RH UL2 / DC12RH UL2 / AC18BH UL2  
 AC18SQ UL2 / DC18RH UL2 / PC18SQ UL2 / S18EQ UL2 / S18ET UL2



(Unit: mm)

ITEM NO.	PART NAME
1	Air Outlet
2	Control Box
3	Power and Communication Cable Hole
4	Service Valve Cover
5	Gas Pipe Connection
6	Liquid Pipe Connection

# OUTDOOR UNITS

	ARTCOOL		DUALCOOL							
	Gallery	Mirror	Prestige	Air Purification	DELUXE	Deluxe2	Standard Plus	Standard2	Standard	Standard3
Wired Remote Controller	5k						Y			
	7k		Y			Y		Y		
	9k	-	Y	Y	Y	Y	Y	Y	-	-
	12k	-	Y	Y	Y	Y	Y	Y	-	-
	15k						Y			
	18k		Y			Y		Y	-	
	24k		Y			Y		Y	-	
	5k						-			
PI 485	7k		-			Y*		-		
	9k	Y	-	-	-	Y*	Y*	-	-	-
	12k	Y	-	-	-	Y*	Y*	-	-	-
	15k						-			
	18k		-			Y*		-	-	
	24k		-			Y*		-	-	
	5k						Y			
	7k		Y			Y		Y		
Dry Contact	9k	Y	Y	Y	Y	Y	Y	Y	-	-
	12k	Y	Y	Y	Y	Y	Y	Y	-	-
	15k						Y			
	18k		Y			Y		Y	-	
	24k		Y			Y		Y	-	

\* Y : Available

\* When connected to Multi 14k &amp; 16k Outdoor units, this may not be supported.

## Standard Wired Remote Controller



Standard III  
PREMTB100

Standard III  
PREMTBB10



Standard II  
PREMTB001

Standard II  
PREMTBB01

Model Name	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01
Operation Mode	On / Off, Fan Speed Control, Temperature Setting	
Mode Change	Cooling, Heating, Auto, Dehumidification, Fan	
Auto Swing / Vane Control	•	•
Reservation	Simple, Sleep, On / Off, Weekly, Holiday	
Time Display	•	•
Electrical Failure Compensation	•	•
Child Lock	•	•
Operation Status LED	•	•
Indoor Temperature Display	•	•
Wireless Remote Controller Receiver	-	•
Size (W x H x D, mm)	120 x 120 x 16	120 x 121 x 16
Backlight	•	•
Display AirQuality Status	-	-

\* Refer to each model PDB for applicable models.

## PI 485



PMNFP14A1

Power : Single phase AC 220V 50/60Hz

Max. no of the indoor units that can be connected : 64 UNITS

Model applied : RAC / Multi / Single / Therma V

\* Refer to each product PDB for applicable models.

## Dry Contact



PDRYCB000

PDRYCB400



PDRYCB320

PDRYCB500

\* Refer to each product PDB for applicable models.

Model	PDRYCB000	PDRYCB400	PDRYCB320	PDRYCB500
Contact Point	1 Control Point	2 Control Point	8 Control Point	Modbus RTU
Power Input	AC 220V from outside power source	DC 5V & 12V from indoor unit PCB	DC 5V & 12V from indoor unit PCB	DC 5V & 12 V from indoor unit PDB
Voltage / Non Voltage Input	-	•	•	-
On / Off Control	•	•	•	•
Lock / Unlock	•	•	•	•
Fan Speed Setting	-	-	•	•
Thermo Off	-	•	•	-
Energy Saving	-	•	-	-
Temperature Setting	-	•	•	•
Error Monitoring	•	•	•	•
Operation Monitoring	•	•	•	•

## Remote Controller



Prestige  
Artcool  
Deluxe, Deluxe2,  
Standard Plus  
Standard, Standard2, Standard3

Button	Display Screen	Description
	-	To turn on / off the air conditioner.
	88° <sup>b</sup>	To adjust the desired room temperature in cooling, heating or auto changeover mode.
	-	To adjust the air flow to indirect wind.
	-	To set the brightness of the display on the indoor unit.
	-	To select the cooling mode.
	-	To select the heating mode.
	-	To select the dehumidification mode.
	-	To select the fan mode.
	-	To select the auto changeover / auto operation mode.
	-	To adjust the fan speed.
	P <sub>o</sub>	To bring the effect of the power saving.
	-	To change room temperature quickly.
	-	To display the room temperature.
	-	To change unit between °C and °F.
	-	To set / cancel the functions and timer.
	-	To adjust time.
	-	To turn on / off air conditioner automatically.
	-	To cancel the timer settings.

\* Remote Controller specifications may vary for each model.

\* Remote Controller specification, design and feature are subject to change without prior notice.

# PORTRABLE AIR CONDITIONER



01

## FAST COOLING

### The Need for Speed

LG's Portable Air Conditioner reaches the optimal temperature more quickly than on-off compressors with variable speed operations.



\* Testing by TUV shows LG inverter air conditioner (US-Q242K\*) cools up to 40% more faster than LG non-inverter air conditioner (TS-H2465DAO).  
\* TUV report No. 50068748 001

### Portable Comfort at Home

LG Portable Air Conditioner DUAL Inverter provides optimized high-speed airflow, which can cool rooms faster.



02

## LOW NOISE

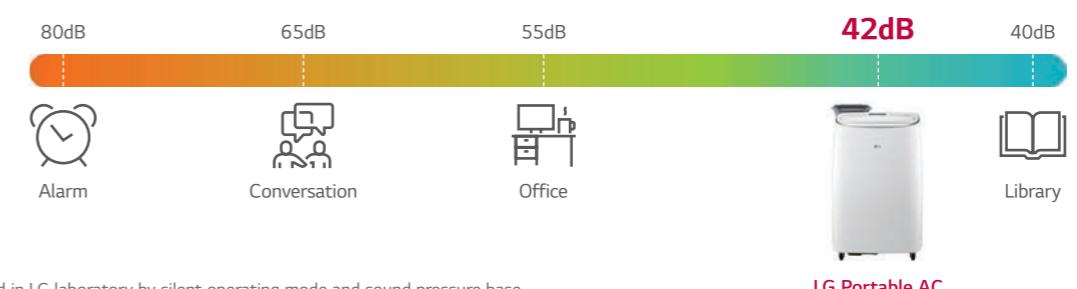
### Peace and Quiet

The LG inverter compressor operates more quietly at 42dB for indoor tranquility.



### \*Lo-Decibel™

LG Portable Air Conditioner DUAL Inverter operates at low sound levels as low as 42dB\*, thanks to LG's unique BLDC Motor and DUAL Inverter Compressor™.



\* Tested in LG laboratory by silent operating mode and sound pressure base  
\* Since this product has a compressor inside, it may cause mechanical noise during operation.

### What is LG Inverter Technology?

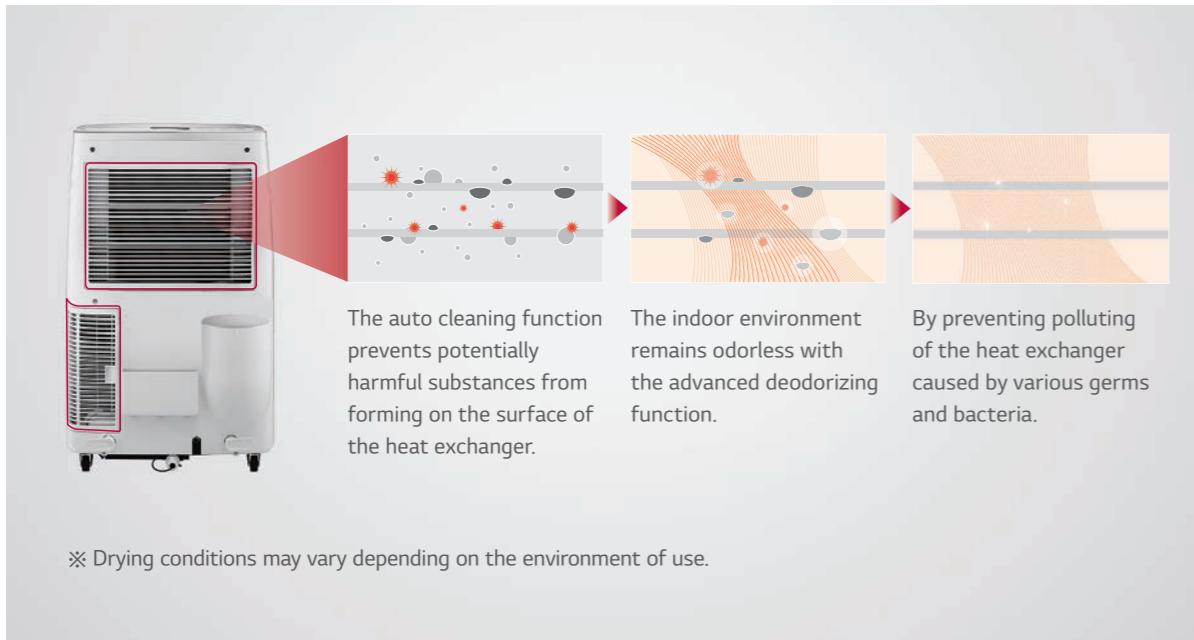
LG Inverter Technology can be found in many of LG's renowned devices, from refrigerators and washing machines to our air conditioner line-up. This technology allows the inverter compressor to achieve superior energy efficiency, cooling performance and comfort compared to compressors with on-off capabilities.



## 03 **CLEAN AIR**

### **Say Goodbye to Odor**

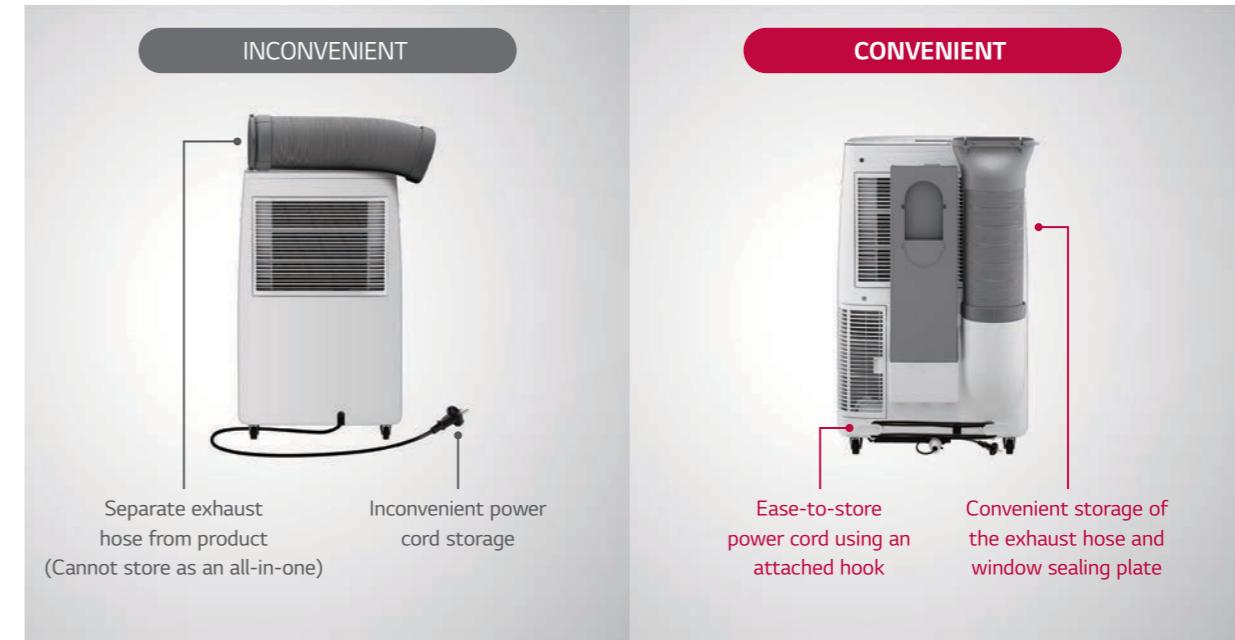
Auto-cleaning functions and two easily washable filters provide clean air



## 04 **EASY STORAGE**

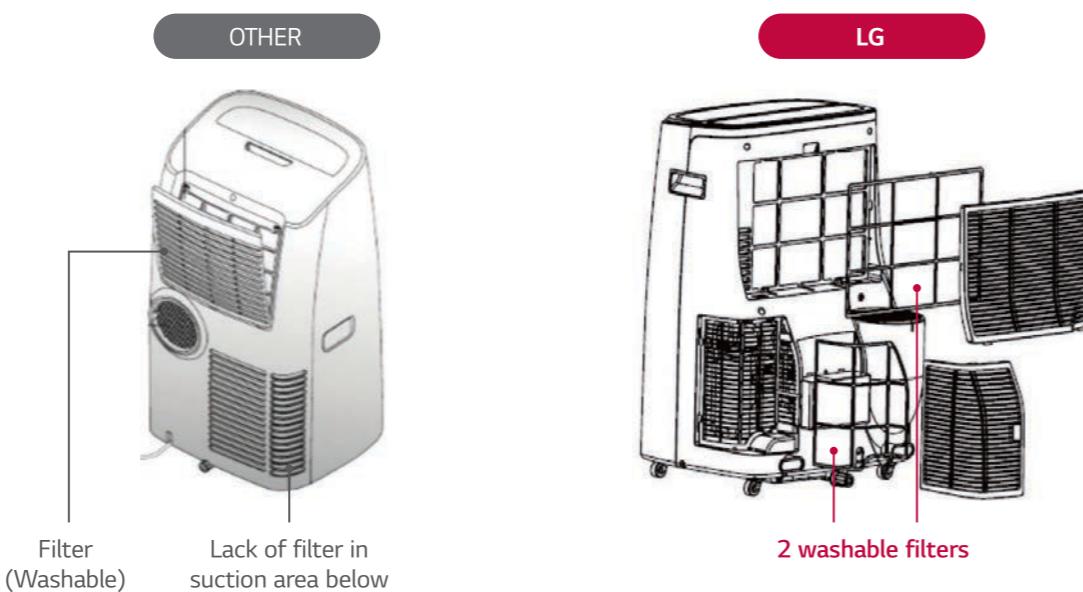
### **Convenient Anytime, Anywhere Access**

Easy storage of exhaust hose and window (sliding) sealing plate



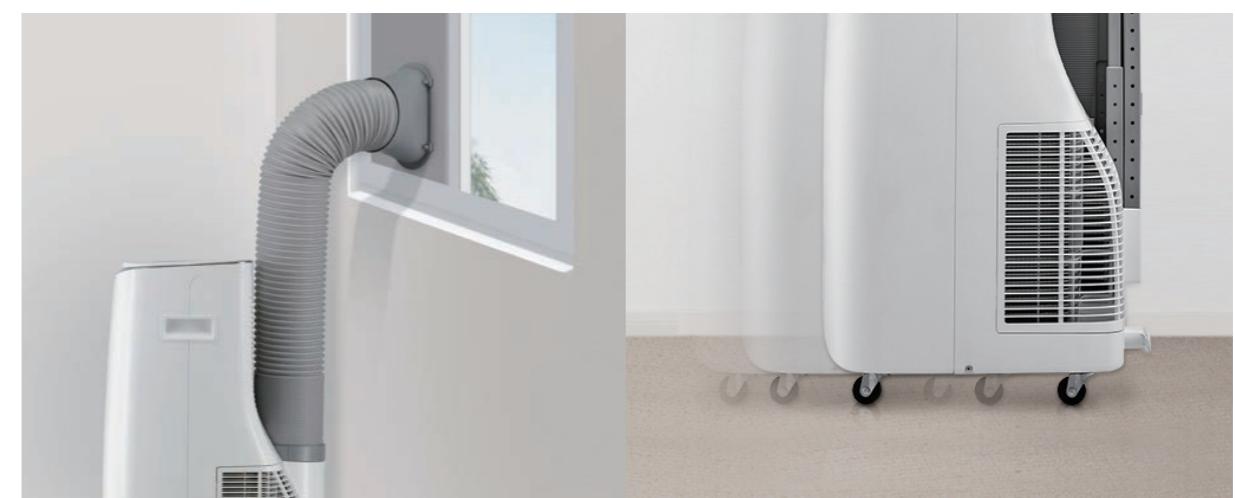
### **Washable Filters**

LG has filters in the upper and lower suction areas respectively. Without the bottom filter, dust can continue to enter the product, resulting in poor performance or drainage problems.



### **Easy Installation**

The installation kit and hose make it easy to install and store, saving you space. Smooth gliding caster wheels allow you to move it around the home and office.



# 05 CONVENIENT

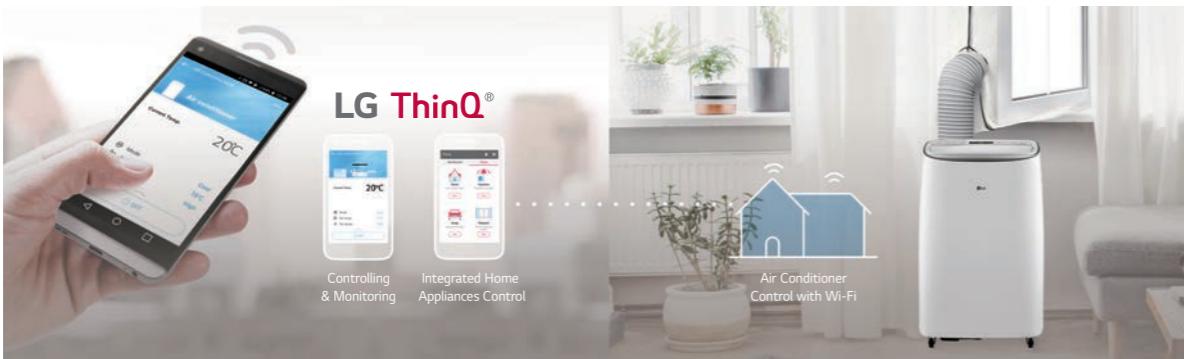
## No More Remote Control

Simple, time-saving voice control for easy access



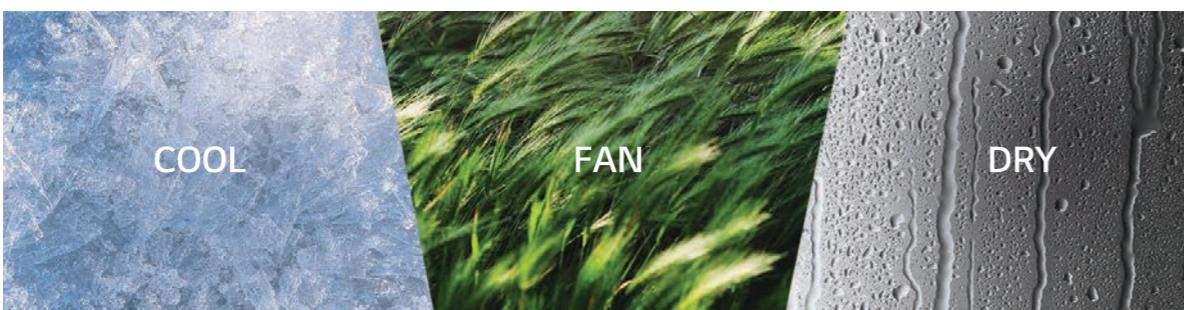
## Smart Control

Control key features by using the ThinQ app on your smartphone and get important notifications from anywhere



## 3 in 1 Operation

The cool mode is ideal for powerful cooling and dehumidifying on hot days. In fan mode, the fan circulates air while the dry mode is ideal for rainy and damp days



MODEL	PA11WS	
Performance	Capacity	Min. / Rated / Max. W
	Power Input	Rated / Max. W
	EER	W/W
	Energy Label (A+++ to D Scale)	A+
	Sound Pressure	S / L / M / H / Max. dB(A)
	Sound Power	Power dB(A)
	Air Flow Rate	S / L / M / H m³/min
	Max. (Power)	m³/min
	Dehumidification Rate	I/h
	Power Supply	Ø / V / Hz
Dimensions	Type	R290
	Refrigerant	Pre Charge kg
	t-CO <sub>2</sub> eq	0.001
	GWP	3
Features	Compressor Type	Inverter Twin Rotary
	Product Net size (W x H x D) (mm)	493 x 773 x 460
	Net Weight (kg)	30.0
	Hose Diameter (mm)	150
Features	Hose Length (m)	1.5
	Embedded Wi-Fi (LG ThinQ)	Yes
	Voice Control	Yes
	Operation Mode	Cool / Dry / Fan
	Auto Evaporating System	Yes
	Remote Controller	LCD Remote Controller
	Air Direction	2 Way Swing
	Auto Restart	Yes
	Auto Clean	Yes
	Child Lock	Yes
	Water Full Indicator	Yes
	Timer	24hr, On/Off
	Air Filter (2 EA)	Washable
	Light On/Off	Dimming (100 / 50 / 0)

※ GWP : Global warming potential

※ t-CO<sub>2</sub>eq : F-gas(kg)\*GWP/1000

※ Specification, design and feature are subject to change without prior notice.

# HEAT PUMP WATER HEATER

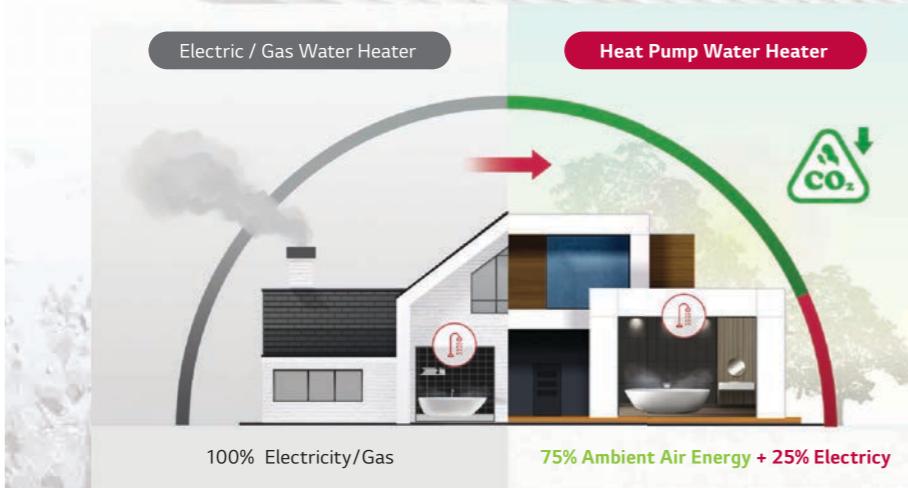
THERMA V



# HEAT PUMP WATER HEATER

## What is a Heat Pump Water Heater?

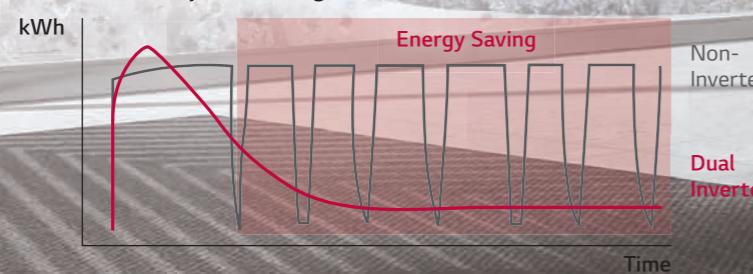
With an increasing emphasis on eco-conscious energy solutions, the LG Heat Pump Water Heater obtains 75% of its energy from outside air. This renewable energy source converts low temperature to high temperature using two heat exchangers, a condenser and an evaporator.



### \* LG Inverter Technology

LG Inverter Technology can be found in many of LG's renowned devices, from refrigerators and washing machines to our air conditioner line-up. This technology allows the inverter compressor to achieve superior energy efficiency, cooling performance and comfort compared to compressors with on-off capabilities.

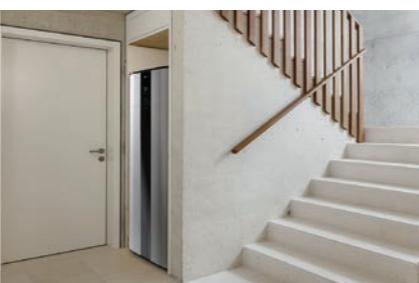
### Power Consumption Change



### Flexible Installation Locations



Laundry Room



Storage Room



Bathroom



Bathroom



Garage



Garage

※ Actual product appearance may differ from the above simulated scene.

# HEAT PUMP WATER HEATER

## Stylish Design

LG's exclusive square design and luxury silver color make it an excellent design for the interior.



## Perfect Matching with Various Spaces



## Top Class Energy Efficiency

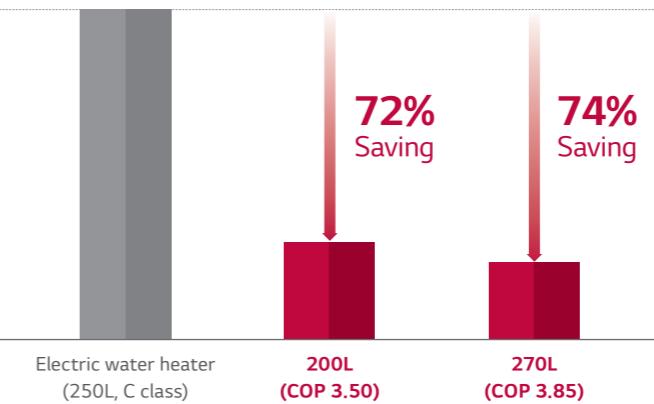
LG's new Inverter Heat Pump Water Heater allows for an impressive energy savings of over 70% compared to a conventional electric heater due to the highly efficient DUAL Inverter Compressor.



## Energy Saving

LG's Heat Pump Water Heater, using market's first DUAL Inverter Compressor, DUAL Inverter Compressor can run at low rotational speed (up to 10Hz) and reduces energy consumption, 70% more than Electric Water Heater (250L, C class).

Average Estimated Energy Consumption Saving Per Year



※ Simulation Data on Daily Electricity Consumption, based on EU Climate Condition (Average, 15°C).

※ Data is based on LG Internal Simulation.

※ The data is depending on the experimental condition and is changeable according to the usage environment

# HEAT PUMP WATER HEATER

## Powerful Heating Performance

The DUAL Inverter Compressor maximizes the heat pump's power in turbo mode for a 30% faster heating time for first-use water than auto mode operation.



### Fast & Powerful Water Heating

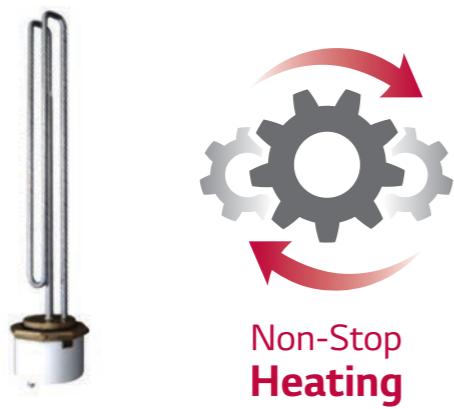
Turbo Mode can run at high speeds (up to 80Hz) with simultaneous heating. The target water temperature in the tank will be achieved 30% faster in Turbo Mode than in Use auto mode or Auto Mode. Furthermore, Turbo Mode can recover the water at 25% warmer temperatures than Use auto mode or Auto Mode after 1 hour from an empty tank.

※ The data is based on LG internal test and simulation.

※ The data is depending on the experimental condition and is changeable according to the usage environment

### Continuous Operation

The two heat sources, two heaters and heat pump, complement each other perfectly. If one of the heaters or the heat pump fails, the other heat source allows alternative operation.



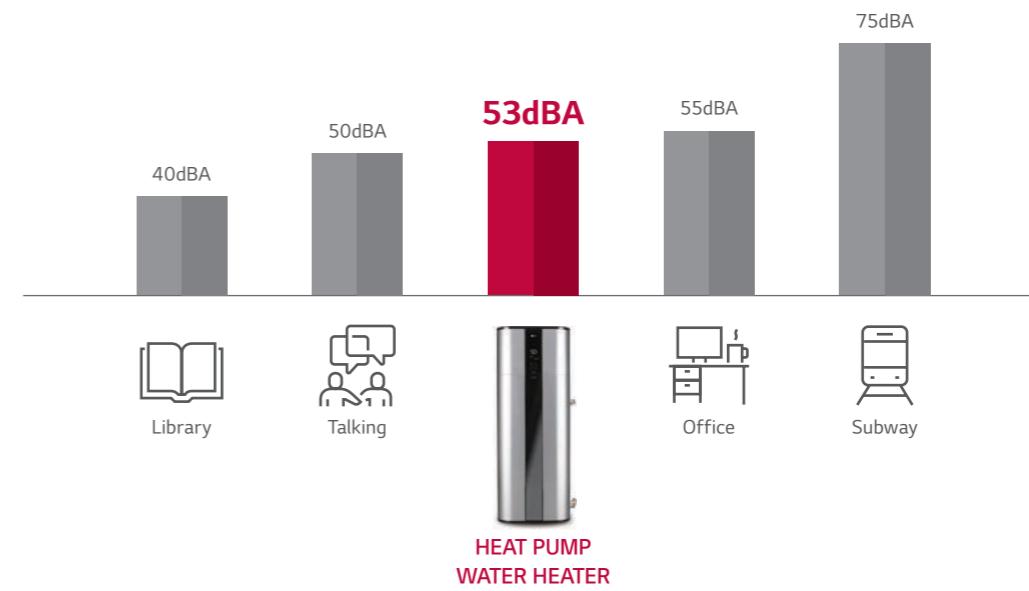
## Low Noise Operation

Through BLDC Motor and DUAL Inverter Compressor, noise is reduced to 53dBA (sound power) and provides a comfortable environment even in indoor installation scenes.



### Low Noise Operation

Through BLDC Fan Motor and DUAL Inverter Compressor, noise is reduced to 53dBA and creates a comfortable environment even in indoor installation scenes.



※ Sound Pressure is 38dBA based on LG internal test.

※ The data is based on LG Internal Test (Sound Power).

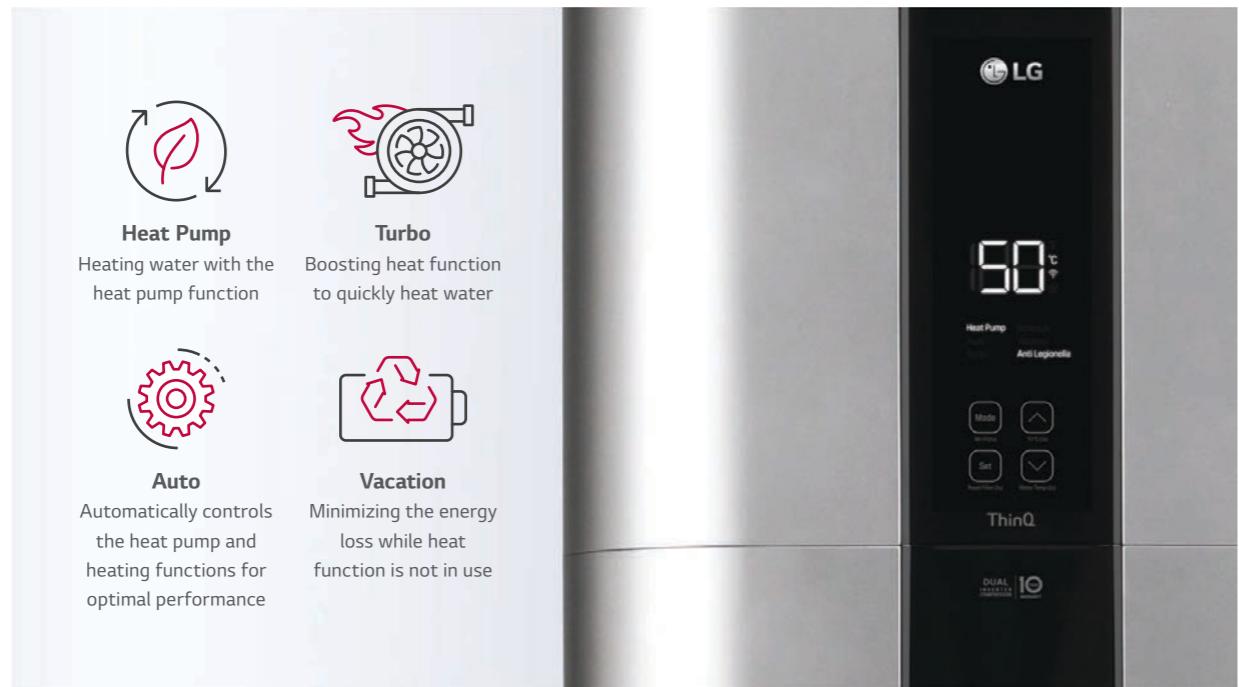
※ The data is based on LG internal test and simulation.

※ The data is depending on the experimental condition and is changeable according to the usage environment.

# HEAT PUMP WATER HEATER

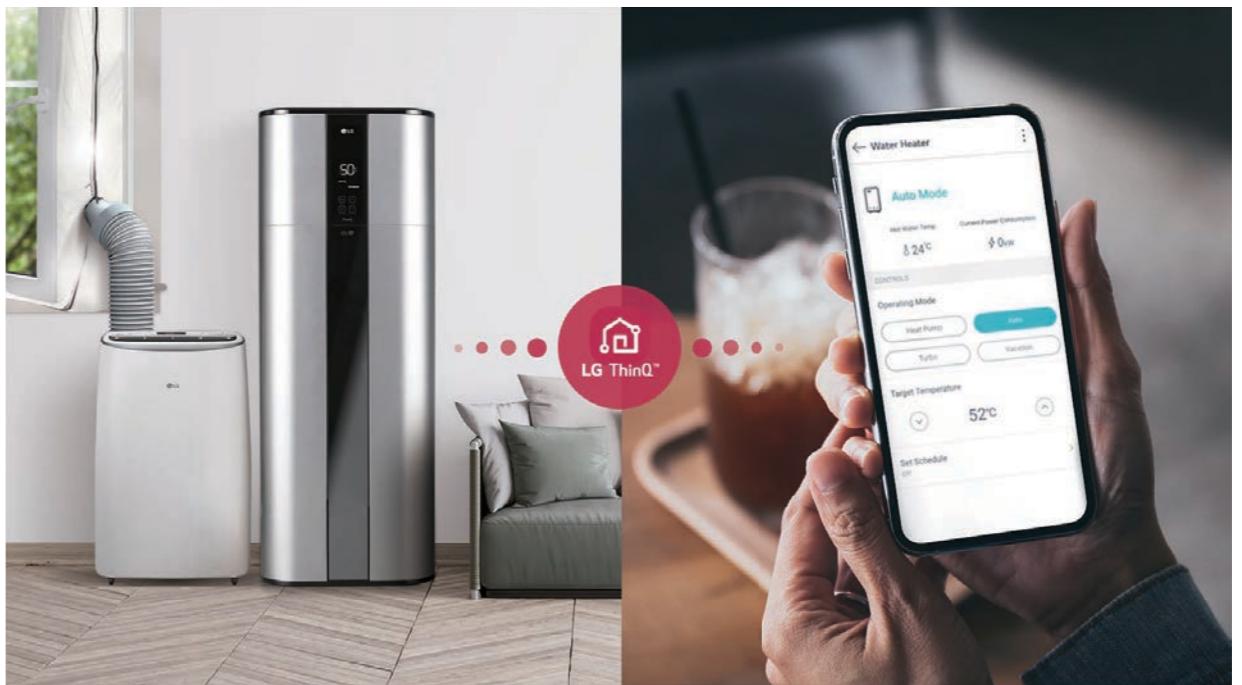
## Various Operation Mode

LG Inverter Heat Pump Water Heater can be operated in 4 different modes for different conditions.



## Smart Control

With the LG ThinQ smartphone app, users can easily control and monitor the heat pump, checking for current water temperatures, setting operating schedules and more.

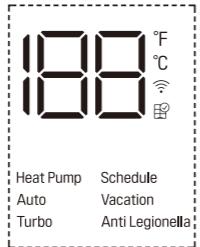


## Operation

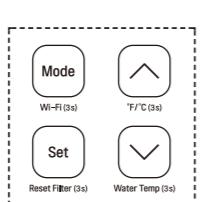


### Using Basic Control

#### Display Screen



#### ② Display Screen



#### ① Button

#### Water Temp (3s)

Button	Display Screen	Description
Mode	Heat Pump Auto Turbo Vacation	To select the Heat Pump mode.
-	Schedule	Set Schedule mode only in LG ThinQ application.
-	Anti Legionella	To select the Anti Legionella mode.
Set	-	To set the desired water temperature.
Mode	188	To adjust the desired water temperature.
Wi-Fi (3s)	Wi-Fi	To enable the Wi-Fi pairing.
Reset Filter (3s)	Filter	To reset the filter alarm.
°F/°C (3s)	°F °C	To change unit between °F and °C.
Water Temp (3s)	188	To display the current water temperature for 5 seconds.

## Embedded Wi-Fi

You can control the LG ThinQ app, checking information such as current water temperature, operating mode and more.



## Smart Diagnosis

Smart Diagnosis allows users to conveniently check setup, installation, troubleshooting and other information directly from a smartphone.



## Easy Check & Monitoring

Easily comprehensible error messages make detecting a solution and contacting the service center simple and convenient.



# HEAT PUMP WATER HEATER

## powered by **DUAL** Inverter Compressor™

LG's DUAL Inverter Compressor™ saves energy with a wide power-saving operating range. Also, in max operation mode, it produces power heating to perform quiet and efficient heating.



### Varied-Speed Dual Rotary

A compressor motor with a wider rotational frequency that is energy efficient and has a higher volumetric quick cooling capacity than conventional non-inverter compressor.

### Product Reliability Improvement

As twin rotaries balance each other while they are rotating with high speed, it reduces noise dramatically compared to the shaking single rotary compressor. The reduction in vibration reduces the possibility of fractures occurring in the surrounding pipework.

※ The data is based on LG internal test and simulation.

※ The data is depending on the experimental condition and is changeable according to the usage environment

### Benefit & Verification

#### Reliable Air Conditioner

Product safety is emphasized by offering a 10-year warranty on the compressor to reassure customers about product durability.



#### Verification

TUV Rheinland, Long Term Accelerated-reliability Test & High Marginal Test



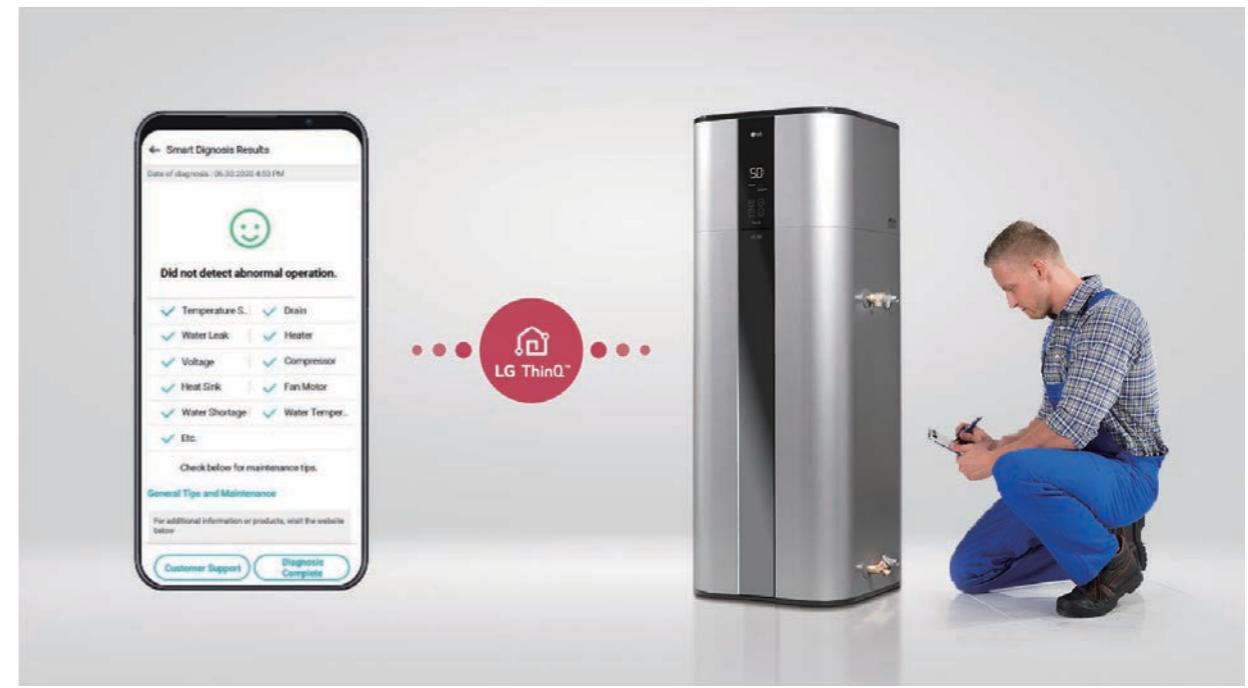
※ Long Term Accelerated-Reliability test  
LG's unique testing method with reinforced operating condition for a product life assurance to test and determine the product life cycle in a short period of time by accelerating the life cycle.

※ High Marginal Test  
Test method to secure durability in various adverse conditions that may occur in the field by performing comp reliability test against higher pressure and temperature than the designed range of pressure and temperature which the comp operates in.

※ Verification obtained from TUV Rheinland for 10-year product life cycle.

## Quick & Easy Installation

The machine's one-direction inlet and outlet piping and easy-to-connect wires in the junction box allow for quick and easy installation. Furthermore, the LG ThinQ app provides Service Alarm and Self Diagnosis programs for convenience maintenance.



### 10 Year Warranty

10 year warranty for the core parts of the heat pump water heater - Water Tank, Compressor; TUV Rheinland certified 10 year durability of Dual Inverter Compressor. Ceramic coating inside water tank meets Germany Ceramic Standard DIN 4753 and it provides 10 years of corrosion resistance



※ Other Parts warranty may vary according to After Sales Service condition

# HEAT PUMP WATER HEATER



SALES MODEL	WH20S	
FACTORY MODEL	R5TT20F-SA1	
Capacity	Volume (Nominal)	200L
Energy Efficiency <sup>1)</sup>	COP (7°C / 15°C)	3.30 / 3.50
Energy Consumption	Annual Energy Consumption (7°C / 15°C) kWh	756 / 709
Load Profile		Large
Power Input	Upper Element Wattage (230V) kW	2
	Lower Element Wattage (230V) kW	2
Energy Efficiency Class (7°C / 15°C)	-	A+ / A+
Power Supply	Ø, V, Hz	1 / 230 / 50
Available Voltage Range	V	195 - 265
Operating Mode	Turbo / Auto / HeatPump / Vacation	
Air Flow Rate	H / M	m³/min
	H / M	CFM
Sound Pressure Level	Auto	dB(A)+3
		dB(A)
Dimensions	Net (W x H x D)	mm
		580 x 1,625 x 582
Weight	Net	kg
Norminal insulation thickness	Min. / Max.	mm
		40 / 80
Heat Pump Operation Range	Min. / Max.	°C DB
		-5 / 48
Exterior Color Code	-	Luxury Silver
Compressor	Type	-
	Warranty	Year
	Manufacturer	-
	Motor Output	W
Design Pressure (System)	High Side	-
	Low Side	-
Max. Working Pressure (Water Tank)	-	150 PSI (1034 kPa)
Circuit Breaker	A	15
Condensate water connection	I.D	mm
		19, 12.7
V40 (Mixed water at 40°C)	L	260
Refrigerant	Type	-
	Pre Charge	kg
	GWP	-
	t-CO <sub>2</sub> eq	-
Defrost Method	-	Reverse Cycle
Anode		ICCP
T&P Relief Valve	-	Yes
Water Connection Location	-	side
Water Connection Size	inch	G ¾ M
Digital Display	-	Yes
Wi-Fi (LG ThinQ) <sup>2)</sup>	-	Yes
Tank Warranty	Year	10

1) Water Heater Energy Efficiency (At Auto mode)

2) ThinQ Main Function

- Operation mode (Auto, Heatpump, Turbo, Vacation, Schedule), Temperature setting
- Monitoring hot water Temperature

※ This product contains Fluorinated greenhouse gases (R134a).

※ GWP : Global warming potential

※ t-CO<sub>2</sub>eq : F-gas(kg)\*GWP/1000

※ Specification, design and feature are subject to change without prior notice.



SALES MODEL	WH27S	
FACTORY MODEL	R5TT27F-SA0	
Capacity	Volume (Nominal)	270L
Energy Efficiency <sup>1)</sup>	COP (7°C / 15°C)	3.45 / 3.85
Energy Consumption	Annual Energy Consumption (7°C / 15°C) kWh	712 / 646
Load Profile		Large
Power Input	Upper Element Wattage (230V) kW	2
	Lower Element Wattage (230V) kW	2
Energy Efficiency Class (7°C / 15°C)	-	A+ / A++ <sup>2)</sup>
Power Supply	Ø, V, Hz	1 / 230 / 50
Available Voltage Range	V	195 - 265
Operating Mode	Turbo / Auto / HeatPump / Vacation	
Air Flow Rate	H / M	m³/min
	H / M	CFM
Sound Pressure Level	Auto	dB(A)+3
		dB(A)
Dimensions	Net (W x H x D)	mm
		580 x 2,008 x 582
Weight	Net	kg
Norminal insulation thickness	Min. / Max.	mm
		40 / 80
Heat Pump Operation Range	Min. / Max.	°C DB
		-5 / 48
Exterior Color Code	-	Luxury Silver
Compressor	Type	-
	Warranty	Year
	Manufacturer	-
	Motor Output	W
Design Pressure (System)	High Side	-
	Low Side	-
Max. Working Pressure (Water Tank)	-	150 PSI (1034 kPa)
Circuit Breaker	A	15
Condensate water connection	I.D	mm
		19, 12.7
V40 (Mixed water at 40°C)	L	360
Refrigerant	Type	-
	Pre Charge	kg
	GWP	-
	t-CO <sub>2</sub> eq	-
Defrost Method	-	Reverse Cycle
Anode		ICCP
T&P Relief Valve	-	Yes
Water Connection Location	-	side
Water Connection Size	inch	G ¾ M
Digital Display	-	Yes
Wi-Fi (LG ThinQ) <sup>3)</sup>	-	Yes
Tank Warranty	Year	10

1) Water Heater Energy Efficiency (At Auto mode)

2) Energy Label marked A+ and more than COP 3.75 in EU Standard is A++

3) ThinQ Main Function

- Operation mode (Auto, Heatpump, Turbo, Vacation, Schedule), Temperature setting
- Monitoring hot water Temperature

※ This product contains Fluorinated greenhouse gases (R134a).

※ GWP : Global warming potential

※ t-CO<sub>2</sub>eq : F-gas(kg)\*GWP/1000

※ Specification, design and feature are subject to change without prior notice.

# MULTI SPLIT



## R32 INDOOR / OUTDOOR UNITS

		○ Single Only	● Multi Only	○● Compatible with Residential Single Split	○◎ Compatible with Commercial Single Split			
kBtu/h		5	7	9	12	15	18	24
kW		1.5	2.1	2.6	3.5	4.2	5.3	7.0
Wall Mounted	ARTCOOL Gallery				MA09R NF1	MA12R NF1		
	ARTCOOL Mirror			AM07BH NSJ	AC09BH NSJ	AC12BH NSJ	AC18BH NSK	AC24BH NSK
	Air - Purification				AP09RT NSJ	AP12RT NSJ		
	Deluxe			DM07RH NSJ	DC09RH NSJ	DC12RH NSJ	DC18RH NSK	DC24RH NSK
	Standard Plus		●	PM05SP NSA	PM07SP NSA	PC09SQ NSJ	PC12SQ NSJ	PM15SP NSJ
			●	MJ05PC NSJ	MJ07PC NSJ	○○ MJ09PC NSJ	○○ MJ12PC NSJ	MJ15PC NSJ
	Standard 2			MS07ET NSA	S09ET NSJ	○● S12ET NSJ		S18ET NSK
Ceiling Mounted Cassette	1 Way Cassette				MT09R NU1	MT11R NU1		
	4 Way Cassette		●	MT06R NRO	MT08R NRO	○○ CT09F NRO	○○ CT12F NRO	○○ CT18F NQO
	Mid / High Static Pressure						○○ CM18F N10	○○ CM24F N10
Ceiling Concealed Duct	Low Static Pressure				○○ CL09F N50	○○ CL12F N50	○○ CL18F N60	
								○○ CL24F N30
kBtu/h	14	16	18	21	24	27	30	
kW	4.1	4.7	5.3	6.2	7.0	7.9	8.8	
Multi			MU3R19 U21 3-port	MU3R21 U21 3-port	MU4R25 U21 4-port	MU4R27 U40 4-port	MU5R30 U40 5-port	

※ All indoor units are compatible with R410A outdoor units.

## R410A INDOOR / OUTDOOR UNITS

	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
Console				CQ09 NAO	CQ12 NAO		CQ18 NAO
kBtu/h	40	48	56				
kW	11.7	14.1	16.4				
Multi Piping							
Distribution Box			FM48AH U34 / FM49AH U34 8-IDU	FM56AH U34 / FM57AH U34 9-IDU			

REFRIGERANT	R32							R410A		
TYPE	MULTI PIPING							DB BOX TYPE		
kBtu/h	14	16	18	21	24	27	30	40	48	56
kW	4.1	4.7	5.3	6.2	7.0	7.9	8.8	11.7	14.1	16.4
BLDC Comp & Fan Motor	●	●	●	●	●	●	●	●	●	●
Eurovent Certification	●	●	●	●	●	●	●	●	●	●
Variable Voltage Control			●	●	●	●	●	●	●	●
Wide Louver Plus Fin	●	●	●	●	●	●	●	●	●	●
Optimized Heat Exchanger Path	●	●	●	●	●	●	●	●	●	●
Power Saving Start up			●	●	●	●	●	●	●	●
Peak Current Control	●	●	●	●	●	●	●	●	●	●
Standby Mode	●	●	●	●	●	●	●	●	●	●
Mode Lock	●	●	●	●	●	●	●	●	●	●
R1 Compressor								●	●	●
Twin Rotary Compressor	●	●	●	●	●	●	●	●	●	●
Smart Sensor Pressure Control			●	●	●	●	●	●	●	●
Black Fin Heat Exchanger	●	●	●	●	●	●	●	●	●	●
Fast Cooling & Heating			●	●	●	●	●	●	●	●
Night Silent Operation	●	●	●	●	●	●	●	●	●	●
Wiring Error Check	●	●	●	●	●	●	●	●	●	●
LG MV	●	●	●	●	●	●	●	●	●	●
PI-485 Connection			●	●	●	●	●	●	●	●
Forced Cooling Operation	●	●	●	●	●	●	●	●	●	●

## KEY FEATURES

### PERFECT SOLUTION FOR MULTIPLE ROOMS



Energy Efficiency | Extreme Durability | Comfort and Convenience

LG's Multi Split system provides powerful, efficient cooling and heating with two, three, four, or up to nine indoor units operating from a single outdoor unit. LG's advanced inverter technology offers powerful performance while consuming less energy and floor space than that of individual single split systems.



# ENERGY EFFICIENCY

**ENERGY EFFICIENCY** A+++ / A+

The advanced technologies of LG achieve the lowest energy consumption, especially SEER value regarding ErP regulation.

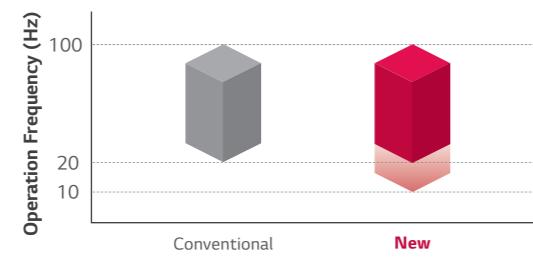
	4.1	4.7	5.3	6.2	7.0	7.9	8.8
kW	8.5	7.8	8.5	8.5	8.0	8.0	8.2
SEER	A+++	A++	A+++	A+++	A++	A++	A++
SCOP	4.2	4.2	4.4	4.4	4.4	4.2	4.2
	A+	A+	A+	A+	A+	A+	A+

- BLDC Inverter Twin Rotary Compressor
- Enhanced Heat Exchanger
- Smart Load Control
- Peak current control

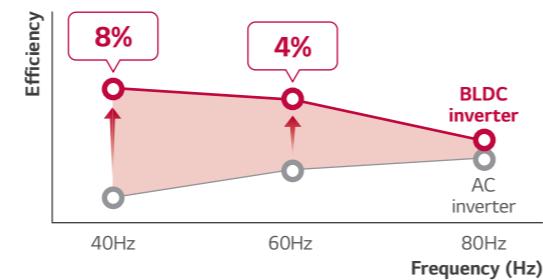
## Powerful Brushless Direct Current Motor (BLDC) Compressor

LG air conditioners are equipped with a BLDC Inverter Twin Rotary Compressor that uses a neodymium magnetic core. The compressor has high efficiency and superior reliability, because it is excellent in controlling the operating speed depending on the load. With improved efficiency as compared to standard AC inverter products, this compressor is optimized for outdoor load changes and seasonal efficiency.

### Operation Range



### Motor Efficiency

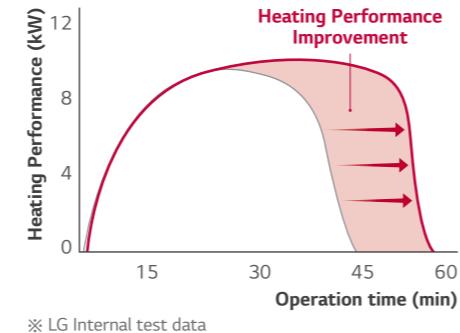
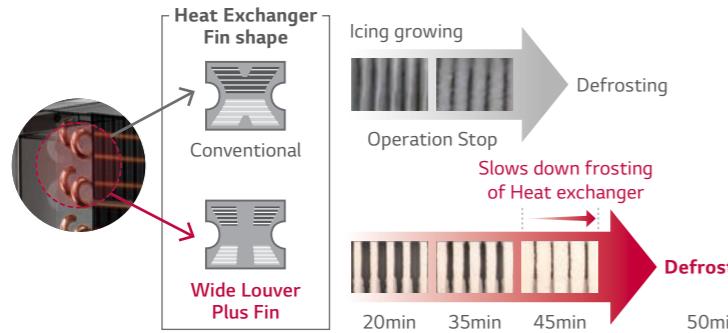


## Enhanced Heat Exchange

Wide Louver Plus fin technology increases 11% of full load heating performance and 6% of COP compared to conventional fin. It can slow down frosting of heat exchanger and postpone the start of defrosting operation.

### Heating Operation at Defrost Condition

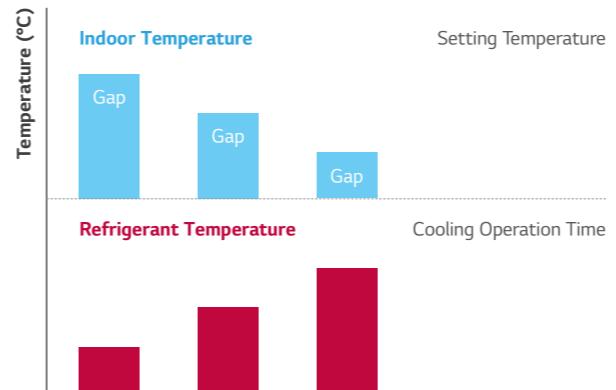
It can slow down frosting of heat exchanger and postpone the start of defrosting operation.



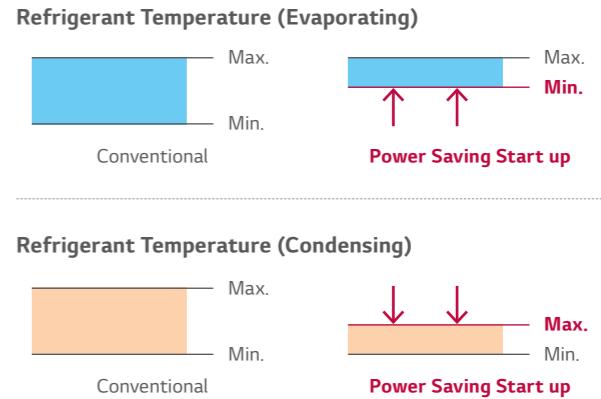
## Power Saving Start Up

LG commercial air conditioners will automatically alter the temperature of discharge air by controlling their refrigerant temperature based on the difference between the indoor temperature and the target indoor temperature. During cooling operation, evaporating temperature will increase if the temperature difference reduces. This allows for enhanced comfort and reduced energy consumption.

### Comfortable Indoor Air

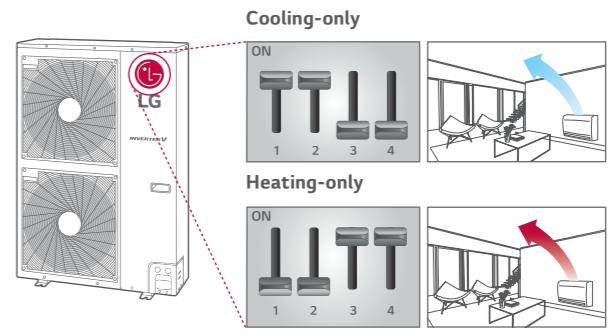


### Energy Saving



## Mode Lock

Set the operation mode to either cooling-only or heating-only, either by adjusting the wired remote controller or setting the DIP switch to avoid combined use of cooling and heating. (Some models need wired remote controller for mode lock function according to feature overview table)

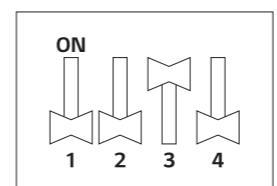


## Peak Current Control

The peak current control function keeps the air conditioner from running at the maximum level while maintaining current system setting, in order to reduce energy consumption. This function allows for reduced energy costs during the peak energy use periods when energy fees are higher.

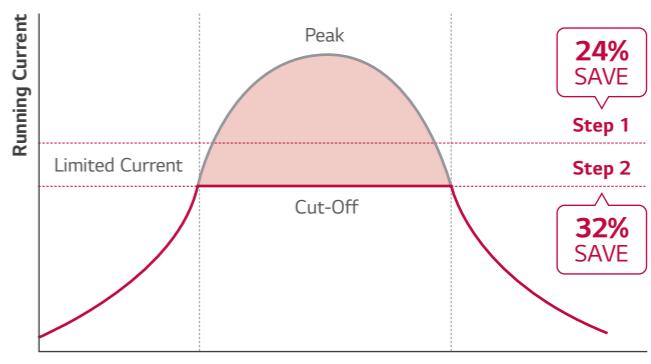
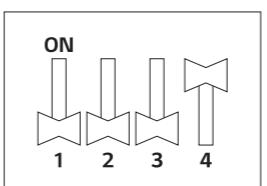
### How to set dip switch

**STEP 1**  
Max. power consumption : 1.9 kW



※ Full Load consumption : 2.5kW  
※ 7.0kW model  
※ LG Internal test result

**STEP 2**  
Max. power consumption : 1.7 kW



※ When using Peak current control, the cooling capacity may not be sufficient.  
※ 7.0kW model ※ LG Internal test result

# EXTREME DURABILITY

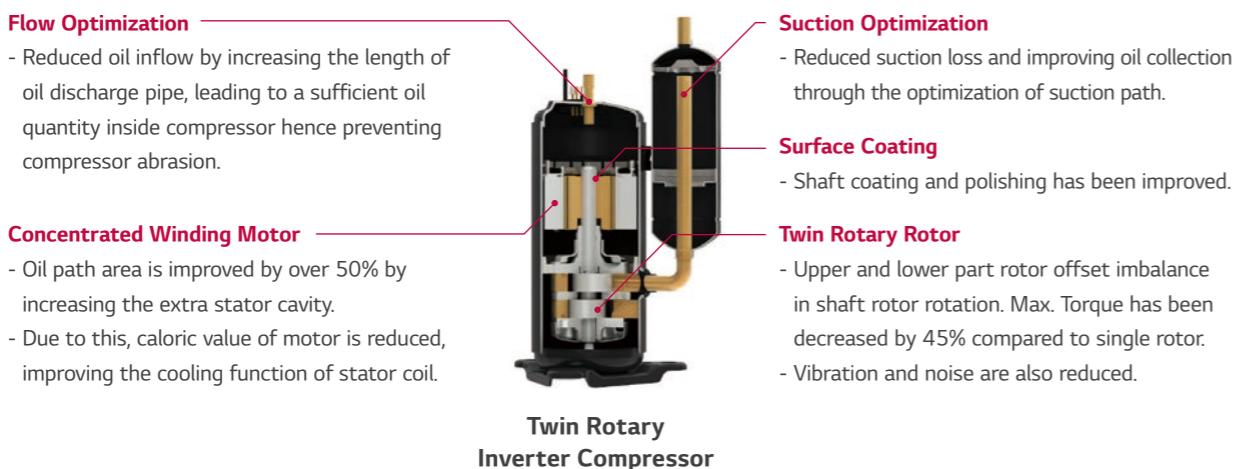


## EXTREME DURABILITY

Product safety and Durability are assisted by advanced BLDC Inverter Twin Rotary compressor, Smart sensor, and Black Fin Heat Exchanger.

## Improved BLDC Inverter Dual Inverter Compressor

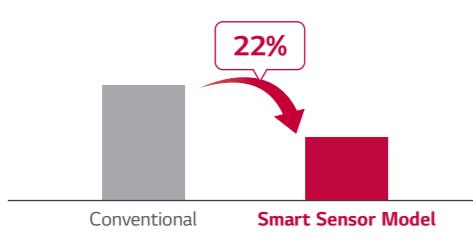
Parts of BLDC Inverter Twin Rotary Compressor have been improved to allow a longer life span.



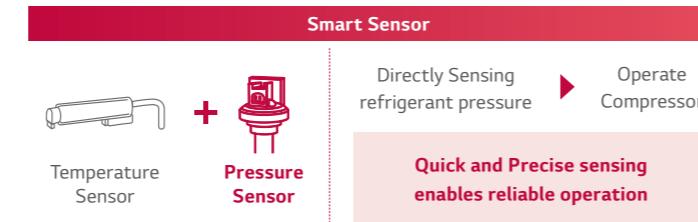
## Pressure Control Technology by Smart Sensor

Quicker and more reliable operation made possible by pressure control technology.

### Field Failure Rate of Outdoor Unit



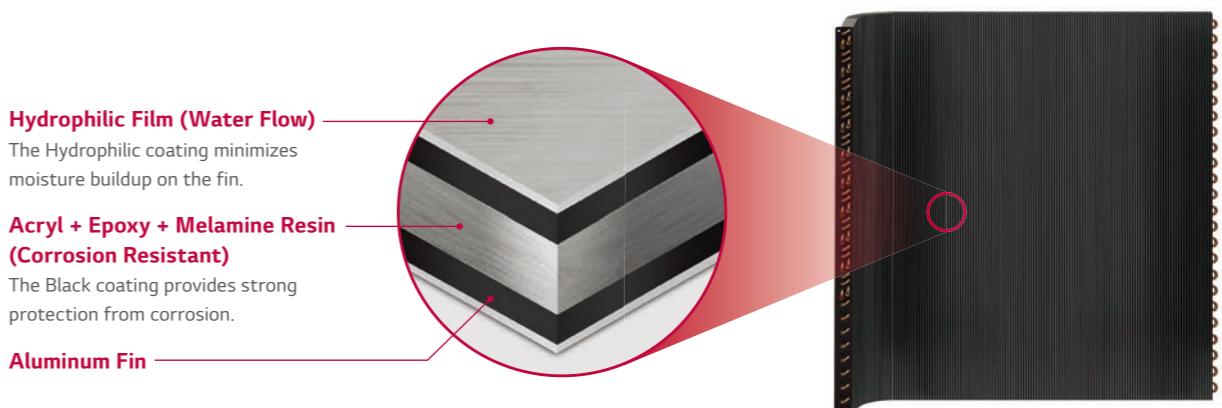
※ LG Internal result  
※ FFR Period : 2 years before / after applying pressure sensor



## Corrosion Resistance Black Fin

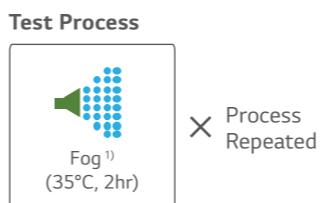
The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution including fumes from factories.

### Longer Lifespan, Lower Maintenance Costs



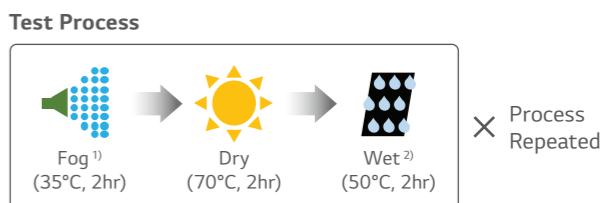
※ Product is not fully treated for anti-corrosion.  
To install near the sea, additional treatment must be required.

### SST (Salt Spray Test)



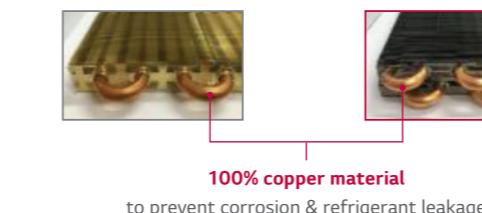
Test process is conducted according to ISO 9227.  
1) Salty water concentration : NaCl aqueous solution (5%)

### CCT (Cyclic Corrosion Test)



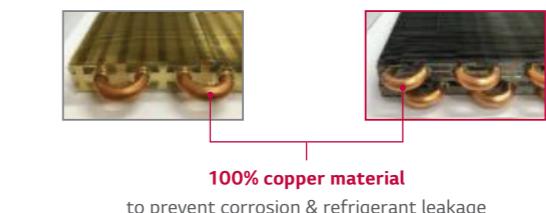
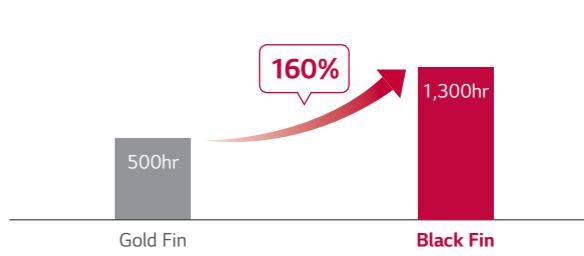
Test process is conducted according to ISO 14933.  
1) Salty water concentration : NaCl aqueous solution (5%)  
※ Dry condition changed : 60°C, 4hr → 70°C, 2hr  
2) Deionized water

### Test Result (5% Area of defects compared to initial)



100% copper material  
to prevent corrosion & refrigerant leakage

### Test Result (5% Area of defects compared to initial)



100% copper material  
to prevent corrosion & refrigerant leakage

# EXTREME DURABILITY

## R1 Compressor



\* LG Internal test result, Based on single split 10 kW Cassette  
\*\* LG Internal test result, Based on conventional compressor (Rotary type GPT442M)  
※ R1 Compressor application ※ Model : 40-56k (7 models)

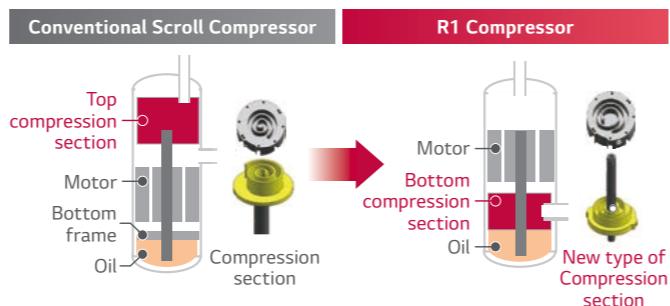


# COMFORT & CONVENIENCE

## Revolutionary Scroll Compressor

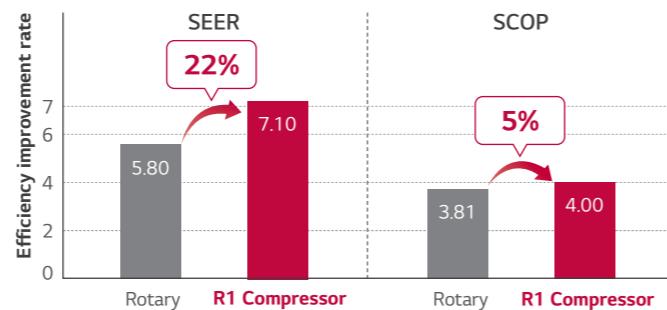
Revolutionary Scroll Compressor is applied for high-efficiency and reliability. This type of compressor is more advanced compared to the conventional one. Especially tilting motion of scroll has been improved. Further, the operation range is improved compared to the conventional type.

- Scroll compressor with simple structure
  - High efficiency (Low load at low speed / total efficiency)
  - Low noise (High speed possible)
  - Improved Tilting Motion of scroll
  - 20% weight reduction (vs. Conventional compressor)
- ※ Applied Model : 40-56k (7 models)



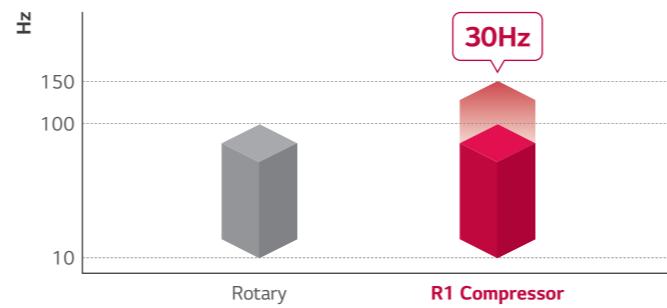
### Seasonal energy efficiency

SEER 22%, SCOP 5% improvement (vs. Rotary)  
※ Multi 40k



### Wide Operation Range

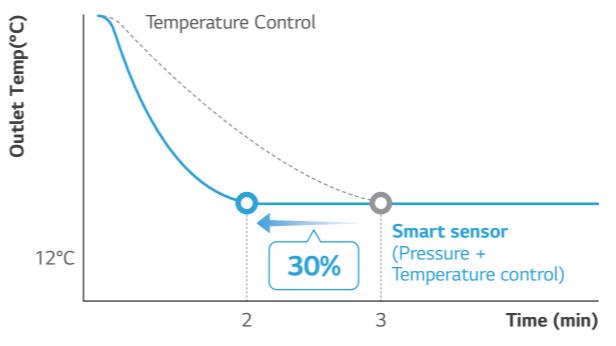
- Optimized for various cooling & heat load operation
- World best compressor speed (Up to 150 Hz)
- Optimized for even low load operation (Down to 10 Hz) (Efficiency increases / Improved comfort)



## Fast Cooling & Heating

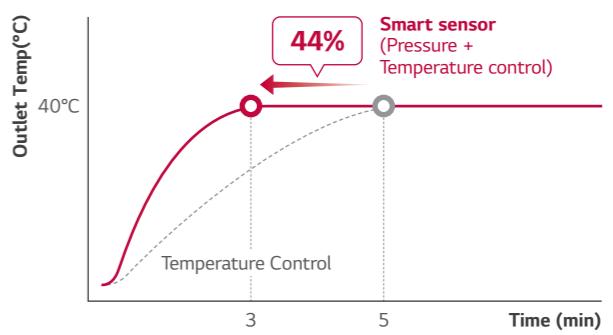
Pressure control takes less time to reach the desired temperature up to 30% in cooling and 44% in heating with high level of accuracy and stability.

### Cooling



※ LG Internal test result

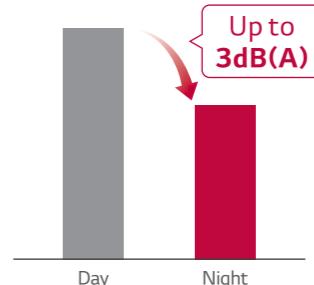
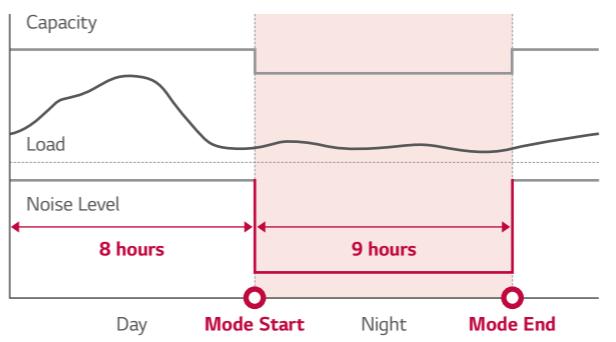
### Heating



## Night Silent Operation

Night Silent Operation can reduce noise levels at night time by simply setting the dip switch on the PCB of the outdoor unit.

### Cooling Mode



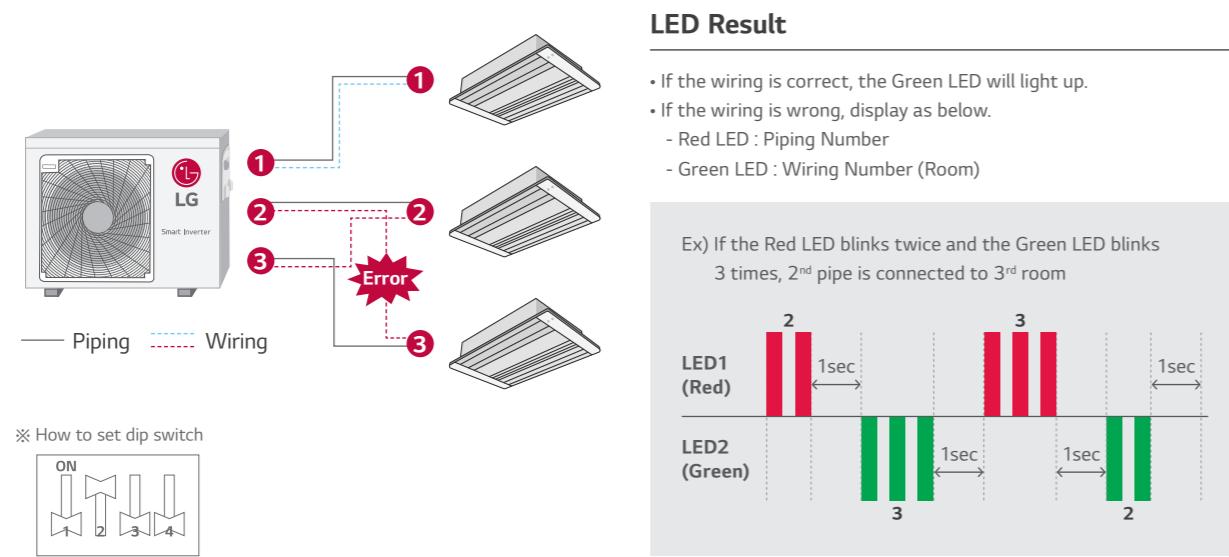
※ This function is only available for Cooling Mode.  
※ If you want to stop the Night Quiet Mode, Change the Dip Switch.

# COMFORT & CONVENIENCE

## COMFORT & CONVENIENCE

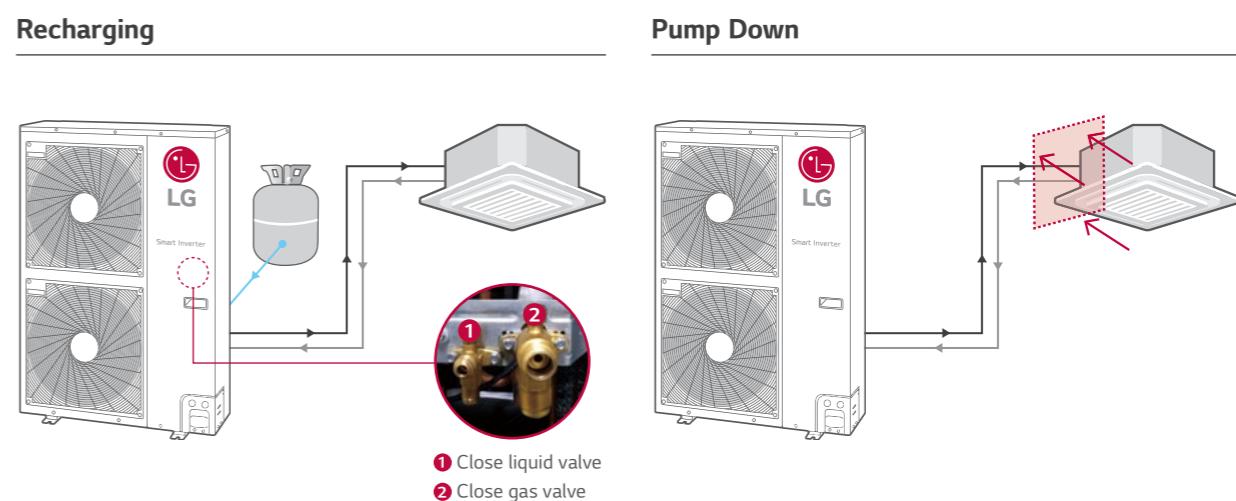
### Wiring Error Check

Installers can check whether the transmission cable has been connected correctly by using the wiring error check function. The wiring error check function can reduce the time taken to check for transmission cable errors.



### Forced Cooling Operation

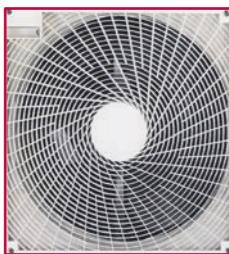
The forced cooling operation allows refrigerant to be recharged or pumped down, regardless of the indoor temperature. More importantly this function can be used when indoor units are being moved or repaired.



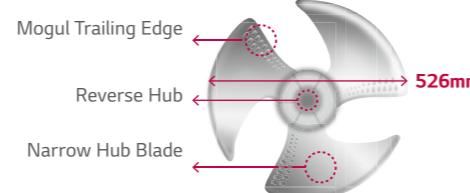
### Advanced Grille & Fan

The improved grille shape design on the outdoor unit helps to distribute air more efficiently which improves heat exchange and reduces the noise level. The new axial Fan has a thick front edge and a smooth rear edge, thus providing not only high efficiency, low noise, wide fan, but also improving the air flow rate.

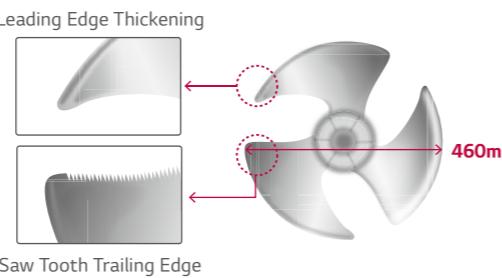
#### Grille



#### Fan Type 1

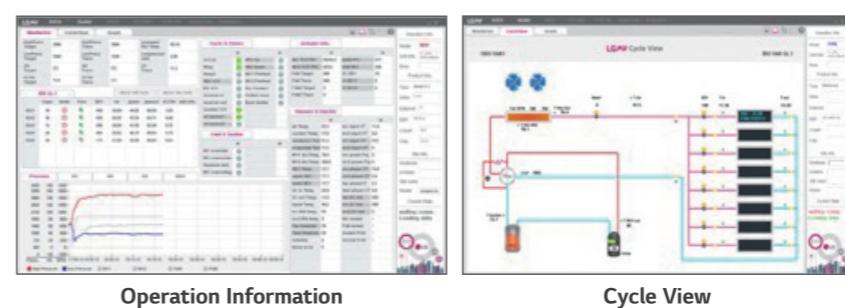
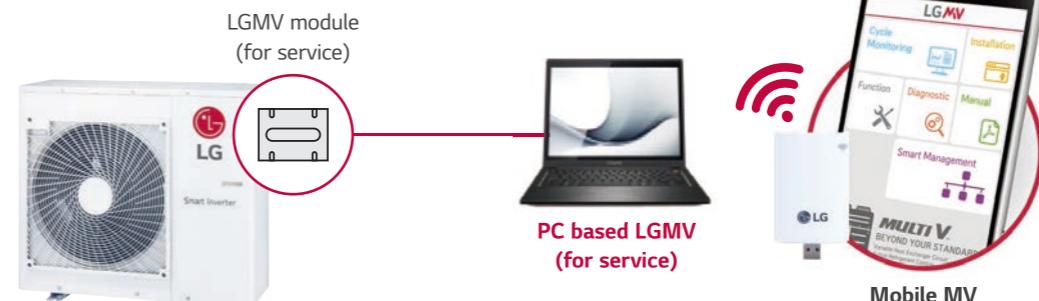


#### Fan Type 2



### LG MV (Monitoring View)

LG MV helps engineers to inspect and monitor air conditioning units easily.



- IDU & ODU Information
- Cycle & Valves
- Sensors & Electricity
- Cycle Diagram
- Actuator Information

## OUTDOOR UNITS

# R32

## MULTI SPLIT



LG participates in the ECP programme  
for EUROVENT VRF program.  
Check ongoing validity of certification  
[www.eurovent-certification.com](http://www.eurovent-certification.com)

OUTDOOR UNITS		MU2R15 ULO	MU2R17 ULO
Compressor	Type	Twin Rotary	Twin Rotary
Capacity*	Cooling Min. / Nom. / Max. kW	0.9 / 4.1 / 4.7	0.9 / 4.7 / 5.4
	Heating Min. / Nom. / Max. kW	1.0 / 4.7 / 5.4	1.0 / 5.3 / 5.7
Low Temperature Capacity	Heating -7°C Max. kW	3.3	3.7
Power Input*	Cooling Min. / Nom. / Max. kW	0.2 / 1.0 / 1.4	0.2 / 1.3 / 1.7
	Heating Min. / Nom. / Max. kW	0.2 / 1.1 / 1.4	0.2 / 1.3 / 1.6
Running Current	Cooling Min. / Nom. / Max. A	1.1 / 4.6 / 6.4	1.1 / 5.6 / 7.9
	Heating Min. / Nom. / Max. A	1.1 / 4.9 / 6.6	1.1 / 5.5 / 7.6
EER		4.14	3.75
COP		4.38	4.22
SEER		8.50	7.80
SCOP		4.20	4.20
Pdesign (@-10°C)		kW	4.10
Seasonal Energy Label	Cooling / Heating (A+++ to D Scale)	A+++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating	169 / 1,367	210 / 1,367
Airflow Rate	Nom. m³/min	28.2	28.2
Sound Pressure	Cooling Nom. dB(A)	48	48
	Heating Nom. dB(A)	51	51
Sound Power	Cooling Max. dB(A)	61	63
Dimensions	W x H x D mm	770 x 545 x 288	770 x 545 x 288
Net Weight	Kg	36	36
	Type	R32	R32
Refrigerant	Charge Kg	1.1	1.1
	Additional Charge g/m	20	20
	GWP	675	675
	t-CO <sub>2</sub> eq	0.743	0.743
Operation Range (Outdoor)	Cooling Min. / Max. °C DB	-10 / 48	-10 / 48
	Heating Min. / Max. °C WB	-18 / 18	-18 / 18
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable	No. x mm <sup>2</sup>	3C x 2.5	3C x 2.5
Transmission Cable	No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75
Circuit Breaker	A	15	15
Piping Length Total	m	30	30
Piping Length per Branch	Max. m	20	20
Piping Elevation Difference	IDU - ODU Max. m	15	15
	IDU - IDU Max. m	7.5	7.5
Piping Connection	Liquid mm (inch) x No.	Ø6.35 (1/4) x 2	Ø6.35 (1/4) x 2
	Gas mm (inch) x No.	Ø9.52 (3/8) x 2	Ø9.52 (3/8) x 2

## Notes :

1. Capacities are based on the following conditions:

Cooling : - Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB - Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

Heating : - Indoor Temperature 20°C (68°F) DB / 15°C (59°F) WB - Outdoor Temperature 7°C (44.6°F) DB / 6°C (42.8°F) WB

Piping Length - Interconnecting Piping Length 7.5m - Level Difference of Zero.

2. \* : See page "Combination Table".

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

4. At least two indoor units should be connected

5. Minimum combination ratio should be more than 40%.

6. This product contains fluorinated greenhouse gases (R32)

# OUTDOOR UNITS



LG participates in the ECP programme  
for EUROVENT VRF program.  
Check ongoing validity of certification  
[www.eurovent-certification.com](http://www.eurovent-certification.com)

OUTDOOR UNITS		MU3R19 U21	MU3R21 U21	MU4R25 U21	
Compressor	Type	Twin Rotary	Twin Rotary	Twin Rotary	
Cooling	Min. / Nom. / Max. kW	1.1 / 5.3 / 6.3	1.1 / 6.2 / 7.3	1.1 / 7.0 / 8.5	
Capacity*	Heating	Min. / Nom. / Max. kW	1.2 / 6.3 / 7.3	1.2 / 7.0 / 7.8	1.2 / 8.1 / 9.1
Low Temperature Capacity	Heating -7°C Max. kW	5.2	5.5	5.9	
Power Input*	Cooling	Min. / Nom. / Max. kW	0.3 / 1.1 / 2.0	0.3 / 1.4 / 2.5	0.3 / 1.8 / 2.8
	Heating	Min. / Nom. / Max. kW	0.3 / 1.3 / 2.0	0.3 / 1.5 / 2.4	0.3 / 1.8 / 2.9
Running Current	Cooling	Min. / Nom. / Max. A	1.3 / 5.0 / 9.2	1.3 / 6.5 / 11.1	1.3 / 8.0 / 12.6
	Heating	Min. / Nom. / Max. A	1.3 / 5.7 / 9.2	1.3 / 6.9 / 10.8	1.3 / 8.3 / 12.9
EER		4.75	4.28	4.00	
COP		5.00	4.60	4.40	
SEER		8.50	8.50	8.00	
SCOP		4.40	4.40	4.40	
Pdesign (@-10°C)	kW	5.20	5.20	5.40	
Seasonal Energy Label	Cooling / Heating (A+++ to D Scale)	A+++ / A+	A+++ / A+	A++ / A+	
Annual Energy Consumption	Cooling / Heating	217 / 1,655	253 / 1,655	308 / 1,718	
Airflow Rate	Nom. m³/min	50	50	50	
Sound Pressure	Cooling Nom. dB(A)	48	49	50	
	Heating Nom. dB(A)	53	54	54	
Sound Power	Cooling Max. dB(A)	63	64	66	
Dimensions	W x H x D mm	870 x 650 x 330	870 x 650 x 330	870 x 650 x 330	
Net Weight	Kg	46	46	46.2	
	Type	R32	R32	R32	
Refrigerant	Charge Kg	1.4	1.4	1.4	
	Additional Charge g/m	20	20	20	
	GWP	675	675	675	
	t-CO <sub>2</sub> eq	0.945	0.945	0.945	
Operation Range (Outdoor)	Cooling Min. / Max. °C DB	-10 / 48	-10 / 48	-10 / 48	
	Heating Min. / Max. °C WB	-18 / 18	-18 / 18	-18 / 18	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Power Supply Cable	No. x mm <sup>2</sup>	3C x 2.5	3C x 2.5	3C x 2.5	
Transmission Cable	No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75	4C x 0.75	
Circuit Breaker	A	20	20	20	
Piping Length Total	m	50	50	70	
Piping Length per Branch	Max. m	25	25	25	
Piping Elevation Difference	IDU - ODU Max. m	15	15	15	
	IDU - IDU Max. m	7.5	7.5	7.5	
Piping Connection	Liquid mm (inch) x No.	Ø6.35 (1/4) x 3	Ø6.35 (1/4) x 3	Ø6.35 (1/4) x 4	
	Gas mm (inch) x No.	Ø9.52 (3/8) x 3	Ø9.52 (3/8) x 3	Ø9.52 (3/8) x 4	

## Notes :

- Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB - Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB  
Heating : - Indoor Temperature 20°C (68°F) DB / 15°C (59°F) WB - Outdoor Temperature 7°C (44.6°F) DB / 6°C (42.8°F) WB  
Piping Length - Interconnecting Piping Length 7.5m - Level Difference of Zero.
- \* : See page "Combination Table".
- Due to our policy of innovation some specifications may be changed without notification.
- At least two indoor units should be connected
- Minimum combination ratio should be more than 40%.
- This product contains fluorinated greenhouse gases (R32)



LG participates in the ECP programme  
for EUROVENT VRF program.  
Check ongoing validity of certification  
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OUTDOOR UNITS		MU4R27 U40	MU5R30 U40
Compressor	Type	Twin Rotary	Twin Rotary
Cooling	Min. / Nom. / Max. kW	1.3 / 7.9 / 9.5	1.3 / 8.8 / 10.6
Heating	Min. / Nom. / Max. kW	1.5 / 9.1 / 10.6	1.5 / 10.1 / 12.1
Low Temperature Capacity	Heating -7°C Max. kW	6.4	7.1
Power Input*	Cooling	Min. / Nom. / Max. kW	0.4 / 1.8 / 2.9
	Heating	Min. / Nom. / Max. kW	0.6 / 2.1 / 3.4
Running Current	Cooling	Min. / Nom. / Max. A	1.9 / 8.1 / 13.1
	Heating	Min. / Nom. / Max. A	2.8 / 9.4 / 15.3
EER		4.39	4.40
COP		4.39	4.70
SEER		8.00	8.20
SCOP		4.20	4.20
Pdesign (@-10°C)	kW	7.00	7.40
Seasonal Energy Label	Cooling / Heating (A+++ to D Scale)	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating	346 / 2,333	376 / 2,467
Airflow Rate	Nom. m³/min	60	60
Sound Pressure	Cooling Nom. dB(A)	50	50
	Heating Nom. dB(A)	54	54
Sound Power	Cooling Max. dB(A)	65	66
Dimensions	W x H x D mm	950 x 834 x 330	950 x 834 x 330
Net Weight	Kg	61	61
	Type	R32	R32
Refrigerant	Charge Kg	2.3	2.6
	Additional Charge g/m	20	20
	GWP	675	675
	t-CO <sub>2</sub> eq	1.553	1.755
Operation Range (Outdoor)	Cooling Min. / Max. °C DB	-10 / 48	-10 / 48
	Heating Min. / Max. °C WB	-18 / 18	-18 / 18
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable	No. x mm <sup>2</sup>	3C x 2.5	3C x 2.5
Transmission Cable	No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75
Circuit Breaker	A	25	25
Piping Length Total	m	70	75
Piping Length per Branch	Max. m	25	25
Piping Elevation Difference	IDU - ODU Max. m	15	15
	IDU - IDU Max. m	7.5	7.5
Piping Connection	Liquid mm (inch) x No.	Ø6.35 (1/4) x 4	Ø6.35 (1/4) x 5
	Gas mm (inch) x No.	Ø9.52 (3/8) x 4	Ø9.52 (3/8) x 5

## Notes :

- Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB - Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB  
Heating : - Indoor Temperature 20°C (68°F) DB / 15°C (59°F) WB - Outdoor Temperature 7°C (44.6°F) DB / 6°C (42.8°F) WB  
Piping Length - Interconnecting Piping Length 7.5m - Level Difference of Zero.
- \* : See page "Combination Table".
- Due to our policy of innovation some specifications may be changed without notification.
- At least two indoor units should be connected
- Minimum combination ratio should be more than 40%.
- This product contains fluorinated greenhouse gases (R32)

# OUTDOOR UNITS

# ARTCOOL GALLERY



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kBtu/H	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
ARTCOOL Gallery	-	-	● MA09R NF1	● MA12R NF1	-	-	-



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kBtu/H	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
ARTCOOL Mirror	-	● AM07BH NSJ	○● AC09BH NSJ	○● AC12BH NSJ	-	○● AC18BH NSK	○● AC24BH NSK

## Single Combination

INDOOR	MA09R NF1	MA12R NF1
Capacity	Cooling Heating	Rated W
Sound Pressure	Cooling Heating	S / L / M / H dB(A)
Sound Power	Cooling Heating	Power dB(A)
Air Flow Rate	Cooling Max. (Power) Heating	S / L / M / H m³/min m³/min L / M / H m³/min
Dehumidification Rate		l/h
Power Supply	Ø / V / Hz	1 / 220-240 / 50
Power Supply Cable	N x mm²	4C x 0.75
Dimension	mm	600 x 600 x 145
Net Weight	kg	15.0
		15.0

## Single Combination

INDOOR	AM07BH NSJ	AC09BH NSJ	AC12BH NSJ
Capacity	Cooling Heating	Rated W	2,100 2,300
Sound Pressure	Cooling Heating	S / L / M / H dB(A)	19 / 26 / 32 / 36 19 / 26 / 33 / 38
Sound Power	Cooling Heating	Power dB(A)	57 57
Air Flow Rate	Cooling Max. (Power) Heating	S / L / M / H m³/min m³/min L / M / H m³/min	3.0 / 5.0 / 7.2 / 8.6 11.1 5.0 / 7.2 / 8.6
Dehumidification Rate		l/h	0.9 1.1
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable	N x mm²	4C x 0.75	4C x 0.75
Dimension	mm	837 x 308 x 192	837 x 308 x 192
Net Weight	kg	9.1	9.9

INDOOR	AC18BH NSK	AC24BH NSK
Capacity	Cooling Heating	Rated W
Sound Pressure	Cooling Heating	S / L / M / H dB(A)
Sound Power	Cooling Heating	Power dB(A)
Air Flow Rate	Cooling Max. (Power) Heating	S / L / M / H m³/min m³/min L / M / H m³/min
Dehumidification Rate		l/h
Power Supply	Ø / V / Hz	1 / 220-240 / 50
Power Supply Cable	N x mm²	4C x 0.75
Dimension	mm	998 x 345 x 212
Net Weight	kg	12.8
		13.5

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※ GWP : Global warming potential  
※ t-CO<sub>2</sub>eq : F-gas(kg)\*GWP/1000

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## AIR PURIFICATION



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kBtu/H	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
Air Purification	-	-	○● AP09RT NSJ	○● AP12RT NSJ	-	-	-



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kBtu/H	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
Deluxe	-	● DM07RH NSJ	○● DC09RH NSJ	○● DC12RH NSJ	-	○● DC18RH NSK	○● DC24RH NSK

## Single Combination

INDOOR	AP09RT NSJ	AP12RT NSJ
Capacity	Cooling Rated W 2,500	3,500
	Heating Rated W 3,300	4,000
Sound Pressure	Cooling S / L / M / H dB(A) 21 / 27 / 35 / 42	21 / 27 / 35 / 42
	Heating L / M / H dB(A) 27 / 35 / 42	27 / 35 / 42
Sound Power	Cooling Power dB(A) 59	59
	S / L / M / H m³/min 3.0 / 4.2 / 6.6 / 10.0	3.0 / 4.2 / 6.6 / 10.0
Air Flow Rate	Cooling Max. (Power) m³/min 11.0	11.0
	Heating L / M / H m³/min 4.2 / 6.6 / 10.0	4.2 / 6.6 / 10.0
Dehumidification Rate	I/h 0.9	0.9
Power Supply	Ø / V / Hz 1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable	N x mm² 4C x 0.75	4C x 0.75
Dimension	mm 857 x 348 x 189	857 x 348 x 189
Net Weight	kg 9.5	9.5

## Single Combination

INDOOR	DM07RH NSJ	DC09RH NSJ	DC12RH NSJ
Capacity	Cooling Rated W 2,100	2,500	3,500
	Heating Rated W 2,300	3,200	4,000
Sound Pressure	Cooling S / L / M / H dB(A) 19 / 27 / 31 / 36	19 / 27 / 32 / 36	19 / 29 / 34 / 38
	Heating L / M / H dB(A) 27 / 31 / 36	27 / 32 / 36	29 / 34 / 39
Sound Power	Cooling Power dB(A) 56	56	56
	S / L / M / H m³/min 3.5 / 5.0 / 6.1 / 7.4	3.5 / 5.0 / 6.4 / 7.7	3.5 / 5.3 / 6.7 / 8.1
Air Flow Rate	Cooling Max. (Power) m³/min 10.1	10.1	10.1
	Heating L / M / H m³/min 5.0 / 6.1 / 7.4	5.0 / 6.4 / 7.7	5.3 / 6.7 / 8.1
Dehumidification Rate	I/h 0.9	1.1	1.2
Power Supply	Ø / V / Hz 1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable	N x mm² 4C x 0.75	4C x 0.75	4C x 0.75
Dimension	mm 837 x 308 x 189	837 x 308 x 189	837 x 308 x 189
Net Weight	kg 8.3	9.1	9.1

INDOOR	DC18RH NSK	DC24RH NSK
Capacity	Cooling Rated W 5,000	6,600
	Heating Rated W 5,800	7,500
Sound Pressure	Cooling S / L / M / H dB(A) 31 / 34 / 42 / 47	31 / 34 / 42 / 47
	Heating L / M / H dB(A) 34 / 42 / 47	34 / 42 / 47
Sound Power	Cooling Power dB(A) 60	64
	S / L / M / H m³/min 8.0 / 10.5 / 13.1 / 15.5	8.0 / 10.5 / 13.1 / 16.1
Air Flow Rate	Cooling Max. (Power) m³/min 16.8	18.3
	Heating L / M / H m³/min 10.5 / 13.1 / 15.5	10.5 / 13.1 / 16.1
Dehumidification Rate	I/h 1.9	2.6
Power Supply	Ø / V / Hz 1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable	N x mm² 4C x 0.75	4C x 0.75
Dimension	mm 998 x 345 x 210	998 x 345 x 210
Net Weight	kg 11.9	12.7

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# STANDARD PLUS



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kBtu/H	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
Standard Plus	● PM05SP NSA	● PM07SP NSA	○● PC09SQ NSJ	○● PC12SQ NSJ	● PM15SP NSJ	○● PC18SQ NSK	○● PC24SQ NSK



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kBtu/H	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
Standard Plus	● MJ05PC NSJ	● MJ07PC NSJ	○○ MJ09PC NSJ	○○ MJ12PC NSJ	● MJ15PC NSJ	○○ MJ18PC NSK	○○ MJ24PC NSK

## Single Combination

INDOOR			PM05SP NSA	PM07SP NSA	PC09SQ NSJ	PC12SQ NSJ	PM15SP NSJ
Capacity	Cooling	Rated W	1,500	2,100	2,500	3,500	4,200
	Heating	Rated W	1,600	2,300	3,200	3,800	5,400
Sound Pressure	Cooling	S / L / M / H dB(A)	22 / 27 / 31 / 36	22 / 27 / 32 / 37	19 / 26 / 33 / 38	19 / 26 / 35 / 39	19 / 28 / 38 / 41
	Heating	L / M / H dB(A)	25 / 29 / 35	25 / 31 / 37	26 / 33 / 38	26 / 35 / 39	28 / 38 / 41
Sound Power	Cooling	Power dB(A)	57	57	57	57	57
Air Flow Rate	Cooling	S / L / M / H m³/min	2.0 / 3.5 / 5.0 / 6.3	2.0 / 3.5 / 5.3 / 6.6	3.0 / 5.0 / 7.6 / 9.1	3.0 / 5.0 / 8.1 / 9.6	3.0 / 5.4 / 8.6 / 10.0
	Max. (Power)	m³/min	11.1	11.1	11.1	11.1	11.1
	Heating	L / M / H m³/min	4.5 / 5.3 / 6.8	4.5 / 5.7 / 7.2	5.0 / 7.6 / 9.1	5.0 / 8.1 / 9.6	5.4 / 8.6 / 10.0
Dehumidification Rate		I/h	0.9	0.9	1.1	1.2	1.2
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable	N x mm²	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Dimension	mm	754 x 308 x 189	754 x 308 x 189	837 x 308 x 189			
Net Weight	kg	7.8	7.8	8.7	8.7	8.7	8.7

INDOOR			PC18SQ NSK		PC24SQ NSK		
Capacity	Cooling	Rated W	5,000		6,600		
	Heating	Rated W	5,800		7,500		
Sound Pressure	Cooling	S / L / M / H dB(A)	31 / 34 / 42 / 47		31 / 34 / 42 / 47		
	Heating	L / M / H dB(A)	34 / 42 / 47		34 / 42 / 47		
Sound Power	Cooling	Power dB(A)	59		65		
Air Flow Rate	Cooling	S / L / M / H m³/min	8.0 / 10.5 / 13.1 / 15.5		8.0 / 10.5 / 13.1 / 16.1		
	Max. (Power)	m³/min	16.8		18.3		
	Heating	L / M / H m³/min	10.5 / 13.1 / 15.5		10.5 / 13.1 / 16.1		
Dehumidification Rate		I/h	1.9		2.6		
Power Supply	Ø / V / Hz	1 / 220-240 / 50		1 / 220-240 / 50			
Power Supply Cable	N x mm²	4C x 0.75		4C x 0.75			
Dimension	mm	998 x 345 x 210		998 x 345 x 210			
Net Weight	kg	11.9		12.7			

## Single Combination

INDOOR			MJ05PC NSJ	MJ07PC NSJ	MJ09PC NSJ	MJ12PC NSJ	MJ15PC NSJ
Capacity	Cooling	Rated W	1,500	2,100	2,500	3,500	4,200
	Heating	Rated W	1,600	2,300	3,200	3,800	5,400
Sound Pressure	Cooling	S / L / M / H dB(A)	19 / 27 / 30 / 35	19 / 27 / 31 / 36	19 / 27 / 32 / 36	19 / 29 / 34 / 38	19 / 29 / 35 / 40
	Heating	L / M / H dB(A)	27 / 30 / 35	27 / 31 / 36	27 / 32 / 36	29 / 34 / 38	29 / 35 / 40
Sound Power	Cooling	Power dB(A)	57	57	57	57	57
Air Flow Rate	Cooling	S / L / M / H m³/min	3.5 / 5.0 / 5.8 / 7.1	3.5 / 5.0 / 6.1 / 7.4	3.5 / 5.0 / 6.4 / 7.7	3.5 / 5.3 / 6.7 / 8.1	3.5 / 5.4 / 7.0 / 8.7
	Max. (Power)	m³/min	10.1	10.1	10.1	10.1	10.1
	Heating	L / M / H m³/min	5.0 / 5.8 / 7.1	5.0 / 6.1 / 7.4	5.0 / 6.4 / 7.7	5.3 / 6.7 / 8.1	5.4 / 7.0 / 8.7
Dehumidification Rate		I/h	0.9	0.9	1.1	1.2	1.2
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable	N x mm²	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Dimension	mm	837 x 308 x 189	837 x 308 x 189	837 x 308 x 189	837 x 308 x 189	837 x 308 x 189	837 x 308 x 189
Net Weight	kg	8.7	8.7	8.7	8.7	8.7	8.7

INDOOR			MJ18PC NSK		MJ24PC NSK		
Capacity	Cooling	Rated W	5,000		6,600		
	Heating	Rated W	5,800		7,500		
Sound Pressure	Cooling	S / L / M / H dB(A)	31 / 34 / 42 / 47		31 / 34 / 42 / 47		
	Heating	L / M / H dB(A)	34 / 42 / 47		34 / 42 / 47		
Sound Power	Cooling	Power dB(A)	59		65		
Air Flow Rate	Cooling	S / L / M / H m³/min	8.0 / 10.5 / 13.1 / 15.5		8.0 / 10.5 / 13.1 / 16.1		
	Max. (Power)	m³/min	16.8		18.3		
	Heating	L / M / H m³/min	10.5 / 13.1 / 15.5		10.5 / 13.1 / 16.1		
Dehumidification Rate		I/h	1.9		2.6		
Power Supply	Ø / V / Hz	1 / 220-240 / 50		1 / 220-240 / 50			
Power Supply Cable	N x mm²	4C x 0.75		4C x 0.75			
Dimension	mm	998 x 345 x 210		998 x 345 x 210			
Net Weight	kg	12.0		12.0			

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# CEILING MOUNTED CASSETTE (1 WAY)

## STANDARD 2



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	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
Standard2	-	● MS07ET NSA	○● S09ET NSJ	○● S12ET NSJ	-	○● S18ET NSK	○● S24ET NSK



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	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
1 Way Cassette	-	-	● MT09R NU1	● MT11R NU1	-	-	-

### Single Combination

INDOOR		MS07ET NSA	S09ET NSJ	S12ET NSJ
Capacity	Cooling	Rated W	2,100	2,500
	Heating	Rated W	2,300	3,200
Sound Pressure	Cooling	S / L / M / H dB(A)	22 / 27 / 32 / 37	19 / 26 / 33 / 38
	Heating	L / M / H dB(A)	25 / 31 / 37	26 / 33 / 38
Sound Power	Cooling	Power dB(A)	57	57
	Air Flow Rate	S / L / M / H m³/min	2.0 / 3.5 / 5.3 / 6.6	3.0 / 5.0 / 7.6 / 9.1
		Max. (Power) m³/min	10.5	11.1
		Heating L / M / H m³/min	4.5 / 5.7 / 7.2	5.0 / 7.6 / 9.1
Dehumidification Rate		I/h	0.6	1.1
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable		N x mm²	4C x 0.75	4C x 0.75
Dimension		mm	754 x 308 x 189	837 x 308 x 189
Net Weight		kg	7.8	8.7

INDOOR		S18ET NSK	S24ET NSK
Capacity	Cooling	Rated W	5,000
	Heating	Rated W	5,800
Sound Pressure	Cooling	S / L / M / H dB(A)	31 / 34 / 42 / 47
	Heating	L / M / H dB(A)	34 / 42 / 47
Sound Power	Cooling	Power dB(A)	59
	Air Flow Rate	S / L / M / H m³/min	8.0 / 10.5 / 13.1 / 15.5
		Max. (Power) m³/min	16.8
		Heating L / M / H m³/min	10.5 / 13.1 / 15.5
Dehumidification Rate		I/h	1.9
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Power Supply Cable		N x mm²	4C x 0.75
Dimension		mm	998 x 345 x 210
Net Weight		kg	11.9
			12.7

### 1 Way Cassette

INDOOR		MT09R NU1	MT11R NU1
Capacity	Cooling / Heating Nom. kW	2.6 / 2.9	3.5 / 3.9
Power Input	Nom. W	20	20
Running Current	Nom. A	0.2	0.2
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate	H / M / L m³/min	7.5 / 7.3 / 6.8	8.1 / 7.4 / 7.0
Sound Pressure	Cooling H / M / L dB(A)	36 / 34 / 32	37 / 36 / 33
Sound Power	Cooling Max. dB(A)	54	57
Dehumidification Rate	I/h	1.1	1.2
Dimensions	Body W x H x D mm	860 x 132 x 450	860 x 132 x 450
Net Weight	Body kg	13.5	13.5
Piping Connection	Liquid mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Decoration Panel	Model	PT-UAHW0 / PT-UAHGO / PT-UPHGO	PT-UAHW0 / PT-UAHGO / PT-UPHGO

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# CEILING CONCEALED DUCT

RESIDENTIAL

MULTI SPLIT

## CEILING MOUNTED CASSETTE (4 WAY)



	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
4 Way Cassette	● MT06R NRO	● MT08R NRO	○○ CT09F NRO	○○ CT12F NRO	-	○○ CT18F NQ0	○○ CT24F NBO



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	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
Mid / High Static Pressure	-	-	-	-	-	○○ CM18F N10	○○ CM24F N10

### 4 Way Cassette

INDOOR			MT06R NRO	MT08R NRO	CT09F NRO
Capacity	Cooling / Heating	Nom. kW	1.5 / 1.6	2.1 / 2.3	2.6 / 2.9
Power Input	Nom.	W	20	20	22
Running Current	Nom.	A	0.40	0.40	0.40
Power Supply	Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate	H / M / L	m³/min	7.5 / 6.0 / 5.0	7.5 / 6.0 / 5.0	8.5 / 7.0 / 6.0
Sound Pressure	Cooling	H / M / L dB(A)	31 / 27 / 24	31 / 27 / 24	36 / 33 / 30
Sound Power	Cooling	Max. dB(A)	48	48	52
Dehumidification Rate		I/h	-	-	0.9
Dimensions	Body	W x H x D mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570
Net Weight	Body	kg	11.7	11.7	12.4
Piping Connection	Liquid	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Model		PT-QCHW0	PT-QCHW0	PT-QAGW0
Decoration Panel	Color		Morning Fog (9001)	Morning Fog (9001)	White (9003)
	Dimensions	W x H x D mm	620 x 34 x 620	620 x 34 x 620	620 x 35 x 620
	Weight	kg	3	3	2.9

INDOOR			CT12F NRO	CT18F NQ0	CT24F NBO
Capacity	Cooling / Heating	Nom. kW	3.5 / 3.9	5.3 / 5.8	6.7 / 7.5
Power Input	Nom.	W	24	26	26
Running Current	Nom.	A	0.40	0.40	0.60
Power Supply	Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate	H / M / L	m³/min	9.5 / 8.0 / 7.0	13.0 / 12.0 / 11.0	17.0 / 15.0 / 13.0
Sound Pressure	Cooling	H / M / L dB(A)	38 / 35 / 32	41 / 39 / 39	38 / 36 / 34
Sound Power	Cooling	Max. dB(A)	52	57	53
Dehumidification Rate		I/h	1.4	2.0	2.7
Dimensions	Body	W x H x D mm	570 x 214 x 570	570 x 256 x 570	840 x 204 x 840
Net Weight	Body	kg	12.4	13.9	21.1
Piping Connection	Liquid	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas	mm (inch)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Model		PT-QAGW0	PT-QAGW0	PT-AAGW0
Decoration Panel	Color		White (9003)	White (9003)	White (9003)
	Dimensions	W x H x D mm	620 x 35 x 620	620 x 35 x 620	950 x 35 x 950
	Weight	kg	2.9	2.9	7.1

※ Dual vane is applied to 24

※ This product contains Fluorinated greenhouse gases (R32).

※ For our policy of continuous product improvement, specification, design and features are subject to change without prior notice.

## CEILING CONCEALED DUCT



LG participates in the ECP programme  
for EUROVENT VRF program.  
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kBtu/H	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
Low Static Pressure	-	-	○○ CL09F N50	○○ CL12F N50	-	○○ CL18F N60	-

## Duct (Low Static)

INDOOR			CL09F N50	CL12F N50	CL18F N60
Capacity	Cooling / Heating	Nom. kW	2.5 / 3.2	3.4 / 4.0	5.0 / 5.8
Power Input	H / M / L	W	21 / 15 / 13	21 / 15 / 13	100 / 90 / 80
Running Current	H / M / L	A	0.21 / 0.16 / 0.14	0.21 / 0.16 / 0.14	0.43 / 0.39 / 0.34
Power Supply	Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate	H / M / L	m³/min	11.5 / 9.5 / 8.0	11.5 / 9.5 / 8.0	15.0 / 12.0 / 10.0
Sound Pressure	H / M / L	dB(A)	35 / 30 / 27	35 / 30 / 27	34 / 31 / 29
Sound Power Level	Rated	dB(A)	55	55	56
Dehumidification Rate		l/h	0.5	0.9	1.7
Dimensions	W x H x D mm		900 x 190 x 460	900 x 190 x 460	1,100 x 190 x 460
Net Weight	kg		18.0	18.0	20.9
Piping Connections	Liquid Side Gas Side	mm (inch) mm (inch)	Ø 6.35 (1/4) Ø 9.52 (3/8)	Ø 6.35 (1/4) Ø 9.52 (3/8)	Ø 6.35 (1/4) Ø 12.7 (1/2)
External static pressure	Min. - Max.	Pa (mmAq)	0 ~ 5 (0 ~ 50)	0 ~ 5 (0 ~ 50)	0 ~ 5 (0 ~ 50)



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kBtu/H	5	7	9	12	15	18	24
kW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
Low Static Pressure	-	-	-	-	-	-	○○ CL24F N30

## Duct (Low Static)

INDOOR			CL24F N30
Capacity	Cooling / Heating	Nom. kW	6.8 / 7.5
Power Input	H / M / L	W	150 / 130 / 110
Running Current	H / M / L	A	0.65 / 0.56 / 0.47
Power Supply	Ø / V / Hz		1 / 220-240 / 50
Air Flow Rate	H / M / L	m³/min	20.0 / 16.0 / 12.0
Sound Pressure	H / M / L	dB(A)	39 / 35 / 32
Sound Power Level	Rated	dB(A)	58
Dehumidification Rate		l/h	2.5
Dimensions	W x H x D mm		1,100 x 190 x 700
Net Weight	kg		26.0
Piping Connections	Liquid Side Gas Side	mm (inch) mm (inch)	Ø 9.52 (3/8) Ø 15.88 (5/8)
External static pressure	Min. - Max.	Pa (mmAq)	0 ~ 5 (0 ~ 50)

※ This product contains Fluorinated greenhouse gases (R32).

※ For our policy of continuous product improvement, specification, design and features are subject to change without prior notice.

# COMBINATION TABLE



MU2R15

OPERATION	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)				TOTAL CAPACITY				INPUT(W)					
	MIN.		RATED		MAX.									
	UNIT-A	UNIT-B	UNIT-C	UNIT-D	TOTAL	Btu/h	kW	Btu/h	kW	Btu/h	kW	MIN.	RATED	MAX.
1 UNIT	5				5	3,000	0.88	5,000	1.47	5,750	1.69	226	381	477
	7				7	4,200	1.23	7,000	2.05	8,050	2.36	303	540	683
	9				9	5,400	1.58	9,000	2.64	10,350	3.03	408	676	864
	12				12	7,200	2.11	12,000	3.52	13,800	4.04	540	926	1,176
2 UNIT	5	5			10	6,000	1.76	10,000	2.93	11,500	3.37	414	682	889
	5	7			12	7,200	2.11	12,000	3.52	13,800	4.04	486	833	1,106
	5	9			14	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	7	7			14	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	7	9			16	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	5	12			17	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	9	9			18	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	7	12			19	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	9	12			21	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	HEATING													
OPERATION	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)				TOTAL CAPACITY				INPUT(W)					
	MIN.		RATED		MAX.									
	UNIT-A	UNIT-B	UNIT-C	UNIT-D	TOTAL	Btu/h	kW	Btu/h	kW	Btu/h	kW	MIN.	RATED	MAX.
1 UNIT	5				5	3,300	0.97	5,500	1.61	6,050	1.77	235	380	472
	7				7	5,040	1.48	8,400	2.46	9,240	2.71	355	604	721
	9				9	6,480	1.90	10,800	3.17	11,880	3.48	454	784	949
	12				12	7,920	2.32	13,200	3.87	14,520	4.26	554	969	1,185
2 UNIT	5	5			10	6,600	1.93	11,000	3.22	12,100	3.55	408	706	854
	5	7			12	7,920	2.32	13,200	3.87	14,520	4.26	498	872	1,066
	5	9			14	9,600	2.81	16,000	4.69	18,400	5.39	613	1,066	1,433
	7	7			14	9,600	2.81	16,000	4.69	18,400	5.39	613	1,066	1,433
	7	9			16	9,600	2.81	16,000	4.69	18,400	5.39	613	1,066	1,433
	5	12			17	9,600	2.81	16,000	4.69	18,400	5.39	613	1,066	1,433
	9	9			18	9,600	2.81	16,000	4.69	18,400	5.39	613	1,066	1,433
	7	12			19	9,600	2.81	16,000	4.69	18,400	5.39	613	1,066	1,433
	9	12			21	9,600	2.81	16,000	4.69	18,400	5.39	613	1,066	1,433
	HEATING													



MU2R17

OPERATION	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)				TOTAL CAPACITY				INPUT(W)					
	MIN.		RATED		MAX.									
	UNIT-A	UNIT-B	UNIT-C	UNIT-D	TOTAL	Btu/h	kW	Btu/h	kW	Btu/h	kW	MIN.	RATED	MAX.
1 UNIT	5				5	3,000	0.88	5,000	1.47	5,750	1.69	226	381	477
	7				7	4,200	1.23	7,000	2.05	8,050	2.36	303	540	683
	9				9	5,400	1.58	9,000	2.64	10,350	3.03	408	676	864
	12				12	7,200	2.11	12,000	3.52	13,800	4.04	540	926	1,176
2 UNIT	5	5			10	6,000	1.76	10,000	2.93	11,500	3.37	414	682	889
	5	7			12	7,200	2.11	12,000	3.52	13,800	4.04	486	833	1,106
	5	9			14	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	7	7			14	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	7	9			16	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	5	12			17	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	9	9			18	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	7	12			19	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	9	12			21	8,400	2.46	14,000	4.10	16,100	4.72	583	988	1,376
	HEATING													
OPERATION	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)				TOTAL CAPACITY				INPUT(W)					
	MIN.		RATED		MAX.									

## COMBINATION TABLE



MU3R19

OPERATION	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)				TOTAL CAPACITY				INPUT(W)					
	MIN.		RATED		MAX.									
	UNIT-A	UNIT-B	UNIT-C	UNIT-D	TOTAL	Btu/h	kW	Btu/h	kW	Btu/h	kW	MIN.	RATED	MAX.
1 UNIT	5				5	3,600	1.06	5,000	1.47	6,000	1.76	288	363	571
	7				7	4,200	1.23	7,000	2.05	8,400	2.46	319	478	645
	9				9	5,400	1.58	9,000	2.64	10,800	3.17	378	595	847
	12				12	7,200	2.11	12,000	3.52	14,400	4.22	478	822	1,139
	15				15	8,520	2.50	15,000	4.40	17,040	4.99	573	1,003	1,356
	18				18	10,800	3.17	18,000	5.28	21,600	6.33	747	1,302	1,827
	5	5			10	7,200	2.11	10,000	2.93	12,000	3.52	350	532	788
	5	7			12	7,200	2.11	12,000	3.52	14,400	4.22	350	669	991
	5	9			14	8,400	2.46	14,000	4.10	16,800	4.92	408	821	1,215
	7	7			14	8,400	2.46	14,000	4.10	16,800	4.92	408	821	1,215
2 UNIT	7	9			16	9,600	2.81	16,000	4.69	19,200	5.63	469	991	1,467
	5	12			17	10,200	2.99	17,000	4.98	20,400	5.98	532	1,083	1,603
	9	9			18	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	7	12			19	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	5	15			20	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	9	12			21	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	7	15			22	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	5	18			23	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	9	15			24	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	12	12			24	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	7	18			25	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	9	18			27	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	12	15			27	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	5	24			29	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	12	18			30	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
	15	15			30	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	2,040
3 UNIT	5	5	5		15	9,000	2.64	15,000	4.40	18,000	5.28	422	837	1,239
	5	5	7		17	10,200	2.99	17,000	4.98	20,400	5.98	481	1,013	1,500
	5	5	9		19	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	5	7	7		19	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	5	7	9		21	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	7	7	7		21	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	5	5	12		22	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	5	9	9		23	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	7	7	9		23	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	5	7	12		24	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	5	5	15		25	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	7	9	9		25	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	5	9	12		26	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	7	7	12		26	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	5	7	15		27	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	9	9	9		27	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	7	9	12		28	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	5	5	18		28	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	5	9	15		29	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	5	12	12		29	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	7	7	15		29	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	5	7	18		30	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918
	9	9	12		30	10,800	3.17	18,000	5.28	21,600	6.33	544	1,111	1,918



MU3R19

OPERATION	HEATING</
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# COMBINATION TABLE

RESIDENTIAL

MULTI SPLIT

# COMBINATION TABLE



MU3R21

OPERATION	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)				TOTAL CAPACITY						INPUT(W)			
					MIN.		RATED		MAX.					
	UNIT-A	UNIT-B	UNIT-C	UNIT-D	TOTAL	Btu/h	kW	Btu/h	kW	Btu/h	kW	MIN.	RATED	MAX.
1 UNIT	5				5	3,600	1.06	5,000	1.47	6,000	1.76	288	363	571
	7				7	4,200	1.23	7,000	2.05	8,400	2.46	319	478	645
	9				9	5,400	1.58	9,000	2.64	10,800	3.17	378	595	847
	12				12	7,200	2.11	12,000	3.52	14,400	4.22	478	822	1,139
	15				15	8,520	2.50	15,000	4.40	17,040	4.99	573	1,003	1,356
	18				18	10,800	3.17	18,000	5.28	21,600	6.33	747	1,302	1,827
2 UNIT	5	5			10	7,200	2.11	10,000	2.93	12,000	3.52	350	532	788
	5	7			12	7,200	2.11	12,000	3.52	14,400	4.22	350	669	991
	5	9			14	8,400	2.46	14,000	4.10	16,800	4.92	408	821	1,215
	7	7			14	8,400	2.46	14,000	4.10	16,800	4.92	408	821	1,215
	7	9			16	9,600	2.81	16,000	4.69	19,200	5.63	469	991	1,467
	5	12			17	10,200	2.99	17,000	4.98	20,400	5.98	532	1,083	1,603
	9	9			18	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	1,890
	7	12			19	11,400	3.34	19,000	5.57	22,800	6.68	669	1,290	2,064
	5	15			20	12,000	3.52	20,000	5.86	24,000	7.03	669	1,406	2,249
	9	12			21	12,600	3.69	21,000	6.15	24,150	7.08	743	1,530	2,450
	7	15			22	12,600	3.69	21,000	6.15	24,150	7.08	743	1,530	2,450
	5	18			23	12,600	3.69	21,000	6.15	24,150	7.08	743	1,530	2,450
	9	15			24	12,600	3.69	21,000	6.15	25,000	7.33	743	1,530	2,450
	12	12			24	12,600	3.69	21,000	6.15	25,000	7.33	743	1,530	2,450
	7	18			25	12,600	3.69	21,000	6.15	25,000	7.33	743	1,530	2,450
	9	18			27	12,600	3.69	21,000	6.15	25,000	7.33	743	1,530	2,450
	12	15			27	12,600	3.69	21,000	6.15	25,000	7.33	743	1,530	2,450
	5	24			29	12,600	3.69	21,000	6.15	25,000	7.33	743	1,530	2,450
	12	18			30	12,600	3.69	21,000	6.15	25,000	7.33	743	1,530	2,450
	15	15			30	12,600	3.69	21,000	6.15	25,000	7.33	743	1,530	2,450
	7	24			31	12,600	3.69	21,000	6.15	25,000	7.33	743	1,530	2,450
	9	24			33	12,600	3.69	21,000	6.15	25,000	7.33	743	1,530	2,450
	15	18			33	12,600	3.69	21,000	6.15	25,000	7.33	743	1,530	2,450
3 UNIT	5	5	5		15	9,000	2.64	15,000	4.40	18,000	5.28	422	837	1,239
	5	5	7		17	10,200	2.99	17,000	4.98	20,400	5.98	481	1,013	1,500
	5	5	9		19	11,400	3.34	19,000	5.57	22,800	6.68	544	1,212	1,940
	5	7	7		19	11,400	3.34	19,000	5.57	22,800	6.68	544	1,212	1,940
	5	7	9		21	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	7	7	7		21	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	5	5	12		22	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	5	9	9		23	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	7	7	9		23	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	5	7	12		24	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	5	5	15		25	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	7	9	9		25	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	5	9	12		26	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	7	7	12		26	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	5	7	15		27	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	9	9	9		27	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	7	9	12		28	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	5	5	18		28	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	5	9	15		29	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	5	12	12		29	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	7	7	15		29	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	5	7	18		30	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	9	9	12		30	12,600	3.69	21,000	6.15	25,000	7.33	682	1,438	2,301
	7	9	15		31	12,600	3.69	21,000	6.15	25,000</td				

# COMBINATION TABLE



MU4R25

OPERATION	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)				COOLING						INPUT(W)			
					TOTAL CAPACITY				INPUT(W)					
	UNIT-A	UNIT-B	UNIT-C	UNIT-D	TOTAL	Btu/h	kW	Btu/h	kW	Btu/h	kW	MIN.	RATED	MAX.
1 UNIT	5				5	3,600	1.06	5,000	1.47	6,000	1.76	288	363	571
	7				7	4,200	1.23	7,000	2.05	8,400	2.46	319	478	645
	9				9	5,400	1.58	9,000	2.64	10,800	3.17	378	595	847
	12				12	7,200	2.11	12,000	3.52	14,400	4.22	478	822	1,139
	15				15	8,520	2.50	15,000	4.40	17,040	4.99	573	1,003	1,356
	18				18	10,800	3.17	18,000	5.28	21,600	6.33	747	1,302	1,827
	5	5			10	7,200	2.11	10,000	2.93	12,000	3.52	350	532	788
	5	7			12	7,200	2.11	12,000	3.52	14,400	4.22	350	669	991
	5	9			14	8,400	2.46	14,000	4.10	16,800	4.92	408	821	1,215
	7	7			14	8,400	2.46	14,000	4.10	16,800	4.92	408	821	1,215
2 UNIT	7	9			16	9,600	2.81	16,000	4.69	19,200	5.63	469	991	1,467
	5	12			17	10,200	2.99	17,000	4.98	20,400	5.98	532	1,083	1,603
	9	9			18	10,800	3.17	18,000	5.28	21,600	6.33	599	1,182	1,749
	7	12			19	11,400	3.34	19,000	5.57	22,800	6.68	669	1,290	1,909
	5	15			20	12,000	3.52	20,000	5.86	24,000	7.03	669	1,406	2,080
	9	12			21	12,600	3.69	21,000	6.15	24,150	7.08	743	1,530	2,264
	7	15			22	13,200	3.87	22,000	6.45	25,300	7.42	743	1,638	2,425
	5	18			23	13,800	4.04	23,000	6.74	26,450	7.75	821	1,752	2,593
	9	15			24	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	12	12			24	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	7	18			25	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	9	18			27	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	12	15			27	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	5	24			29	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	12	18			30	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	15	15			30	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	7	24			31	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	9	24			33	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	15	18			33	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	18	18			36	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	12	24			36	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
	15	24			39	14,400	4.22	24,000	7.03	27,000	7.91	904	1,871	2,770
3 UNIT	5	5	5		15	9,000	2.64	15,000	4.40	18,000	5.28	422	837	1,239
	5	5	7		17	10,200	2.99	17,000	4.98	20,400	5.98	481	1,013	1,500
	5	5	9		19	11,400	3.34	19,000	5.57	22,800	6.68	544	1,212	1,794
	5	7	7		19	11,400	3.34	19,000	5.57	22,800	6.68	544	1,212	1,794
	5	7	9		21	12,600	3.69	21,000	6.15	25,200	7.39	682	1,438	2,128
	7	7	7		21	12,600	3.69	21,000	6.15	25,200	7.39	682	1,438	2,128
	5	5	12		22	13,200	3.87	22,000	6.45	26,400	7.74	731	1,540	2,279
	5	9	9		23	13,800	4.04	23,000	6.74	27,600	8.09	731	1,647	2,437
	7	7	9		23	13,800	4.04	23,000	6.74	27,600	8.09	731	1,647	2,437
	5	7	12		24	14,400	4.22	24,000	7.03	29,000	8.50	837	1,758	2,603
	5	5	15		25	14,400	4.22	24,000	7.03	29,000	8.50	837	1,758	2,603
	7	9	9		25	14,400	4.22	24,000	7.03	29,000	8.50	837	1,758	2,603
	5	9	12		26	14,400	4.22	24,000	7.03	29,000	8.50	837	1,758	2,603
	5	7	15		27	14,400	4.22	24,000	7.03	29,000	8.50	837	1,758	2,603
	9	9	9		27	14,400	4.22	24,000	7.03	29,000	8.50	837	1,758	2,603
	7	9	12		28	14,400	4.22	24,000	7.03	29,000	8.50	837	1,758	2,603
	5	5	18		28	14,400	4.22	24,000	7.03	29,000	8.50	837	1,758	2,603
	5	9	15		29	14,400	4.22	24,000	7.03	29,000	8.50	837	1,758	2,603
	5	12	12		29	14,400	4.22	24,000	7.03	29,000	8.50	837	1,758	2,603
4 UNIT	7	7	15		29	14,400	4.22	24,000	7.03	29,000	8.50	837	1,758	2,603
	5	7	18		30	14,400	4.22	24,000	7.03	29,000	8.50	837	1,758	2,6

# COMBINATION TABLE



## MU4R25

OPERATION	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)				TOTAL CAPACITY						INPUT(W)			
	UNIT-A	UNIT-B	UNIT-C	UNIT-D	TOTAL	Btu/h	kW	Btu/h	kW	Btu/h	kW	MIN.	RATED	MAX.
1 UNIT	5				5	4,000	1.17	5,500	1.61	6,325	1.85	279	384	589
	7				7	5,040	1.48	8,400	2.46	9,650	2.83	342	579	743
	9				9	6,480	1.90	10,800	3.17	12,420	3.64	483	757	997
	12				12	7,920	2.32	13,200	3.87	15,180	4.45	537	954	1,234
	15				15	9,900	2.90	16,500	4.84	18,975	5.56	688	1,189	1,593
	18				18	11,880	3.48	19,800	5.80	22,770	6.67	845	1,483	1,978
	24				24	15,240	4.47	25,400	7.44	26,670	7.82	1,101	1,840	2,327
	5	5			10	7,200	2.11	12,000	3.52	14,400	4.22	329	598	861
	5	7			12	8,640	2.53	14,400	4.22	17,280	5.06	430	904	1,301
	5	9			14	10,080	2.95	16,800	4.92	20,160	5.91	484	945	1,360
2 UNIT	7	7			14	10,080	2.95	16,800	4.92	20,160	5.91	484	945	1,360
	7	9			16	11,520	3.38	19,200	5.63	23,040	6.75	540	1,118	1,610
	5	12			17	12,240	3.59	20,400	5.98	24,480	7.17	598	1,319	1,899
	9	9			18	12,960	3.80	21,600	6.33	25,920	7.60	660	1,430	2,059
	7	12			19	13,680	4.01	22,800	6.68	27,360	8.02	725	1,543	2,221
	5	15			20	14,400	4.22	24,000	7.03	28,800	8.44	764	1,662	2,393
	9	12			21	15,120	4.43	25,200	7.39	29,000	8.50	793	1,749	2,518
	7	15			22	15,840	4.64	26,400	7.74	29,000	8.50	867	1,836	2,644
	5	18			23	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	9	15			24	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	12	12			24	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	7	18			25	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	9	18			27	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	12	15			27	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	5	24			29	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	12	18			30	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	15	15			30	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	7	24			31	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	9	24			33	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	15	18			33	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	18	18			36	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	12	24			36	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
3 UNIT	15	24			39	16,560	4.85	27,600	8.09	29,000	8.50	945	1,977	2,850
	5	5	5		15	10,800	3.17	18,000	5.28	21,600	6.33	497	946	1,363
	5	5	7		17	12,240	3.59	20,400	5.98	24,480	7.17	551	1,118	1,610
	5	5	9		19	13,680	4.01	22,800	6.68	27,360	8.02	725	1,419	2,044
	5	7	7		19	13,680	4.01	22,800	6.68	27,360	8.02	725	1,419	2,044
	5	7	9		21	15,120	4.43	25,200	7.39	30,240	8.86	730	1,610	2,319
	7	7	7		21	15,120	4.43	25,200	7.39	30,240	8.86	730	1,610	2,319
	5	5	12		22	15,840	4.64	26,400	7.74	31,000	9.09	798	1,697	2,444
	5	9	9		23	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647
	7	7	9		23	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647
	5	7	12		24	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647
	5	5	15		25	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647
	7	9	9		25	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647
	5	9	12		26	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647
	7	7	12		26	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647
	5	7	15		27	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647
	7	9	9		27	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647
	5	9	15		28	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647
	5	5	18		28	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647
	5	9	15		29	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647
	5	12	12		29	16,560	4.85	27,600	8.09	31,000	9.09	870	1,838	2,647

# COMBINATION TABLE

RESIDENTIAL

MULTI SPLIT

## COMBINATION TABLE



MU4R27

OPERATION	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)				TOTAL CAPACITY						INPUT(W)			
					MIN.		RATED		MAX.					
	UNIT-A	UNIT-B	UNIT-C	UNIT-D	TOTAL	Btu/h	kW	Btu/h	kW	Btu/h	kW	MIN.	RATED	MAX.
1 UNIT	5				5	4,500	1.32	5,000	1.47	6,000	1.76	416	418	612
	7				7	4,800	1.41	7,000	2.05	8,400	2.46	416	494	663
	9				9	5,400	1.58	9,000	2.64	10,800	3.17	416	617	861
	12				12	7,200	2.11	12,000	3.52	14,400	4.22	494	846	1,153
	15				15	8,520	2.50	14,200	4.16	17,040	4.99	592	1,029	1,395
	18				18	10,800	3.17	18,000	5.28	21,600	6.33	769	1,328	1,804
	24				24	14,400	4.22	24,000	7.03	25,500	7.47	1,029	1,815	2,536
	5	5			10	6,000	1.76	10,000	2.93	12,000	3.52	378	623	853
	5	7			12	7,200	2.11	12,000	3.52	14,400	4.22	444	761	1,038
	5	9			14	8,400	2.46	14,000	4.10	16,800	4.92	533	903	1,228
2 UNIT	7	9			14	8,400	2.46	14,000	4.10	16,800	4.92	533	903	1,228
	5	12			17	10,200	2.99	17,000	4.98	20,400	5.98	646	1,121	1,537
	9	9			18	10,800	3.17	18,000	5.28	21,600	6.33	692	1,195	1,623
	7	12			19	11,400	3.34	19,000	5.57	22,800	6.68	715	1,270	1,740
	5	15			20	12,000	3.52	20,000	5.86	24,000	7.03	761	1,347	1,829
	9	12			21	12,600	3.69	21,000	6.15	25,200	7.39	808	1,423	2,012
	7	15			22	13,200	3.87	22,000	6.45	26,400	7.74	855	1,475	2,154
	5	18			23	13,800	4.04	23,000	6.74	27,600	8.09	879	1,554	2,351
	9	15			24	14,400	4.22	24,000	7.03	28,800	8.44	927	1,633	2,505
	12	12			24	14,400	4.22	24,000	7.03	28,800	8.44	927	1,633	2,505
3 UNIT	7	18			25	15,000	4.40	25,000	7.33	30,000	8.79	975	1,755	2,721
	9	18			27	16,200	4.75	27,000	7.91	31,050	9.10	1,047	2,011	2,891
	12	15			27	16,200	4.75	27,000	7.91	31,050	9.10	1,047	2,011	2,891
	5	24			29	16,200	4.75	27,000	7.91	31,050	9.10	1,047	2,011	2,891
	12	18			30	16,200	4.75	27,000	7.91	31,050	9.10	1,047	2,011	2,891
	15	15			30	16,200	4.75	27,000	7.91	31,050	9.10	1,047	2,011	2,891
	7	24			31	16,200	4.75	27,000	7.91	31,050	9.10	1,047	2,011	2,891
	9	24			33	16,200	4.75	27,000	7.91	31,050	9.10	1,047	2,011	2,891
	15	18			33	16,200	4.75	27,000	7.91	31,050	9.10	1,047	2,011	2,891
	18	18			36	16,200	4.75	27,000	7.91	31,050	9.10	1,047	2,011	2,891
4 UNIT	12	24			36	16,200	4.75	27,000	7.91	31,050	9.10	1,047	2,011	2,891
	15	24			39	16,200	4.75	27,000	7.91	31,050	9.10	1,047	2,011	2,891
	5	5	5		15	9,000	2.64	15,000	4.40	18,000	5.28	522	916	1,258
	5	5	7		17	10,200	2.99	17,000	4.98	20,400	5.98	607	1,054	1,445
	5	5	9		19	11,400	3.34	19,000	5.57	22,800	6.68	672	1,194	1,636
	5	7	7		19	11,400	3.34	19,000	5.57	22,800	6.68	672	1,194	1,636
	5	7	9		21	12,600	3.69	21,000	6.15	25,200	7.39	760	1,338	1,891
	7	7	7		21	12,600	3.69	21,000	6.15	25,200	7.39	760	1,338	1,891
	5	5	12		22	13,200	3.87	22,000	6.45	26,400	7.74	804	1,387	2,025
	5	9	9		23	13,800	4.04	23,000	6.74	27,600	8.09	826	1,461	2,219
5 UNIT	7	7	9		23	13,800	4.04	23,000	6.74	27,600	8.09	826	1,461	2,219
	5	7	12		24	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,379
	5	5	15		25	15,000	4.40	25,000	7.33	30,000	8.79	916	1,650	2,605
	7	9	9		25	15,000	4.40	25,000	7.33	30,000	8.79	916	1,650	2,605
	5	9	12		26	15,600	4.57	26,000	7.62	31,200	9.14	962	1,767	2,784
	7	7	12		26	15,600	4.57	26,000	7.62	31,200	9.14	962	1,767	2,784
	5	7	15		27	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	9	9	9		27	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	9	12		28	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	5	18		28	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
6 UNIT	5	9	15		29	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	12	12		29	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784

# COMBINATION TABLE

RESIDENTIAL

MULTI SPLIT

## COMBINATION TABLE



MU4R27

OPERATION	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)				TOTAL CAPACITY						INPUT(W)			
					MIN.		RATED		MAX.					
	UNIT-A	UNIT-B	UNIT-C	UNIT-D	TOTAL	Btu/h	kW	Btu/h	kW	Btu/h	kW	MIN.	RATED	MAX.
1 UNIT	5				5	5,000	1.47	5,500	1.61	6,325	1.85	610	610	714
	7				7	5,400	1.58	8,400	2.46	9,660	2.83	610	636	825
	9				9	6,480	1.90	10,800	3.17	12,420	3.64	610	826	1,077
	12				12	7,920	2.32	13,200	3.87	15,180	4.45	583	1,021	1,338
	15				15	9,900	2.90	16,500	4.84	18,975	5.56	744	1,279	1,744
	18				18	11,880	3.48	19,800	5.80	22,770	6.67	909	1,577	2,133
	24				24	15,240	4.47	25,400	7.44	26,670	7.82	1,192	2,077	2,538
	5	5			10	7,200	2.11	12,000	3.52	14,400	4.22	451	773	1,081
	5	7			12	8,640	2.53	14,400	4.22	17,280	5.06	541	940	1,337
	5	9			14	10,080	2.95	16,800	4.92	20,160	5.91	656	1,112	1,571
2 UNIT	7	7			14	10,080	2.95	16,800	4.92	20,160	5.91	656	1,112	1,571
	7	9			16	11,520	3.38	19,200	5.63	23,040	6.75	749	1,289	1,844
	5	12			17	12,240	3.59	20,400	5.98	24,480	7.17	796	1,392	1,968
	9	9			18	12,960	3.80	21,600	6.33	25,920	7.60	844	1,471	2,094
	7	12			19	13,680	4.01	22,800	6.68	27,360	8.02	892	1,577	2,222
	5	15			20	14,400	4.22	24,000	7.03	28,800	8.44	940	1,657	2,352
	9	12			21	15,120	4.43	25,200	7.39	30,240	8.86	989	1,766	2,568
	7	15			22	15,840	4.64	26,400	7.74	31,680	9.28	1,038	1,848	2,811
	5	18			23	16,560	4.85	27,600	8.09	33,120	9.71	1,112	1,960	3,127
	9	15			24	17,280	5.06	28,800	8.44	34,100	9.99	1,100	2,045	3,384
3 UNIT	12	12			24	17,280	5.06	28,800	8.44	34,100	9.99	1,100	2,045	3,384
	7	18			25	18,000	5.28	30,000	8.79	34,100	9.99	1,147	2,194	3,384
	9	18			27	18,600	5.45	31,000	9.09	34,100	9.99	1,194	2,157	3,384
	12	15			27	18,600	5.45	31,000	9.09	34,100	9.99	1,194	2,157	3,384
	5	24			29	18,600	5.45	31,000	9.09	34,100	9.99	1,194	2,157	3,384
	12	18			30	18,600	5.45	31,000	9.09	34,100	9.99	1,194	2,157	3,384
	15	15			30	18,600	5.45	31,000	9.09	34,100	9.99	1,194	2,157	3,384
	7	24			31	18,600	5.45	31,000	9.09	34,100	9.99	1,194	2,157	3,384
	9	24			33	18,600	5.45	31,000	9.09	34,100	9.99	1,194	2,157	3,384
	15	18			33	18,600	5.45	31,000	9.09	34,100	9.99	1,194	2,157	3,384
4 UNIT	18	18			36	18,600	5.45	31,000	9.09	34,100	9.99	1,194	2,157	3,384
	12	24			36	18,600	5.45	31,000	9.09	34,100	9.99	1,194	2,157	3,384
	15	24			39	18,600	5.45	31,000	9.09	34,100	9.99	1,194	2,157	3,384
	5	5	5		15	10,800	3.17	18,000	5.28	21,600	6.33	660	1,140	1,590
	5	5	7		17	12,240	3.59	20,400	5.98	24,480	7.17	748	1,309	1,850
	5	5	9		19	13,680	4.01	22,800	6.68	27,360	8.02	838	1,482	2,089
	5	7	7		19	13,680	4.01	22,800	6.68	27,360	8.02	838	1,482	2,089
	5	7	9		21	15,120	4.43	25,200	7.39	30,240	8.86	930	1,660	2,414
	7	7	7		21	15,120	4.43	25,200	7.39	30,240	8.86	930	1,660	2,414
	5	5	12		22	15,840	4.64	26,400	7.74	31,680	9.28	976	1,738	2,590
5 UNIT	5	9	9		23	16,560	4.85	27,600	8.09	33,120	9.71	1,046	1,842	2,767
	7	7	9		23	16,560	4.85	27,600	8.09	33,120	9.71	1,046	1,842	2,767
	5	7	12		24	17,280	5.06	28,800	8.44	34,560	10.13	1,093	1,922	2,951
	5	5	15		25	18,000	5.28	30,000	8.79	34,720	10.18	1,140	2,063	2,998
	7	9	9		25	18,000	5.28	30,000	8.79	34,720	10.18	1,140	2,063	2,998
	5	9	12		26	18,720	5.49	31,200	9.14	34,720	10.18	1,188	2,177	2,998
	7	7	12		26	18,720	5.49	31,200	9.14	34,720	10.18	1,188	2,177	2,998
	5	7	15		27	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	9	9	9		27	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	5	18		28	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
6 UNIT	5	9	15		29	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	12	12		29	18,600	5.45	31,000	9.09	34,720	1			

# COMBINATION TABLE



MU5R30

OPERATION	COOLING					TOTAL CAPACITY			INPUT(W)						
	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)					MIN.		RATED		MAX.		INPUT(W)			
	UNIT-A	UNIT-B	UNIT-C	UNIT-D	UNIT-E	TOTAL	Btu/h	kW	Btu/h	kW	Btu/h	kW	MIN.	RATED	MAX.
1 UNIT	5	4,500	1.32	5,000	1.47	6,000	1.76	416	418	629					
	7	4,800	1.41	7,000	2.05	8,400	2.46	416	494	681					
	9	5,400	1.58	9,000	2.64	10,800	3.17	416	617	884					
	12	7,200	2.11	12,000	3.52	14,400	4.22	494	846	1,184					
	15	8,520	2.50	14,200	4.16	17,040	4.99	592	1,029	1,432					
	18	10,800	3.17	18,000	5.28	21,600	6.33	769	1,328	1,852					
	24	14,400	4.22	24,000	7.03	25,500	7.47	1,029	1,815	2,604					
	5	6,000	1.76	10,000	2.93	12,000	3.52	378	623	876					
	5	7,200	2.11	12,000	3.52	14,400	4.22	444	761	1,066					
	5	8,400	2.46	14,000	4.10	16,800	4.92	533	903	1,261					
2 UNIT	7	8,400	2.46	14,000	4.10	16,800	4.92	533	903	1,261					
	7	9,600	2.81	16,000	4.69	19,200	5.63	601	1,047	1,461					
	5	12	10,200	2.99	17,000	4.98	20,400	5.98	646	1,121	1,578				
	9	9	10,800	3.17	18,000	5.28	21,600	6.33	692	1,195	1,667				
	7	12	11,400	3.34	19,000	5.57	22,800	6.68	715	1,270	1,787				
	5	15	12,000	3.52	20,000	5.86	24,000	7.03	761	1,347	1,878				
	9	12	12,600	3.69	21,000	6.15	25,200	7.39	808	1,423	2,066				
	7	15	13,200	3.87	22,000	6.45	26,400	7.74	855	1,475	2,211				
	5	18	13,800	4.04	23,000	6.74	27,600	8.09	879	1,554	2,414				
	9	15	14,400	4.22	24,000	7.03	28,800	8.44	927	1,633	2,572				
	12	12	14,400	4.22	24,000	7.03	28,800	8.44	927	1,633	2,572				
	7	18	15,000	4.40	25,000	7.33	30,000	8.79	975	1,755	2,794				
	9	18	16,200	4.75	27,000	7.91	32,400	9.50	1,047	2,011	3,213				
	12	15	16,200	4.75	27,000	7.91	32,400	9.50	1,047	2,011	3,213				
	5	24	17,400	5.10	29,000	8.50	33,000	9.67	1,145	2,284	3,341				
	12	18	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341				
	15	15	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341				
	7	24	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341				
	9	24	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341				
	15	18	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341				
	18	18	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341				
	12	24	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341				
	15	24	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341				
	18	24	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341				
3 UNIT	24	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341					
	5	9	19,000	5.57	22,800	6.68	26,400	7.74	855	1,475	2,211				
	5	7	19,400	3.34	19,000	5.57	22,800	6.68	672	1,194	1,680				
	5	7	19,400	3.34	19,000	5.57	22,800	6.68	672	1,194	1,680				
	21	12,600	3.69	21,000	6.15	25,200	7.39	760	1,338	1,942					
	7	7	21,200	3.87	22,000	6.45	26,400	7.74	804	1,387	2,079				
	5	9	21,800	4.04	23,000	6.74	27,600	8.09	826	1,461	2,278				
	7	7	23,800	4.04	23,000	6.74	27,600	8.09	826	1,461	2,278				
	24	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442					
	5	15	25,000	4.40	25,000	7.33	30,000	8.79	916	1,650	2,674				
	7	9	25,000	4.40	25,000	7.33	30,000	8.79	916	1,650	2,674				
	26	15,600	4.57	26,000	7.62	31,200	9.14	962	1,767	2,859					
	7	7	26,000	4.57	26,000	7.62	31,200	9.14	962	1,767	2,859				
	27	16,200	4.75	27,000	7.91	32,400	9.50	984	1,890	3,120					
	9	9	27,000	4.75	27,000	7.91	32,400	9.50	984	1,890	3,120				
	28	16,800	4.92	28,000	8.21	33,600	9.85	1,030	2,028	3,327					
	5	18	28,000	4.92	28,000	8.21	33,600	9.85	1,030	2,028	3,327				
	29	17,400	5.10	29,000	8.50	33,600	9.85	1,077	2,173	3,327					
	5	12	29,000	5.10	29,000	8.50	33,600	9.85	1,077	2,173	3,327				
	7														

# COMBINATION TABLE



MU5R30

OPERATION	COOLING					TOTAL CAPACITY						INPUT(W)			
	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)					MIN.		RATED		MAX.					
	UNIT-A	UNIT-B	UNIT-C	UNIT-D	UNIT-E	TOTAL	Btu/h	kW	Btu/h	kW	Btu/h	kW	MIN.	RATED	MAX.
5 UNIT	5	5	5	5	5	25	15,000	4.40	25,000	7.33	30,000	8.79	841	1,517	2,300
	5	5	5	5	7	27	16,200	4.75	27,000	8.50	32,400	9.50	906	1,701	2,645
	5	5	5	5	9	29	17,400	5.10	29,000	8.50	34,800	10.20	993	1,897	3,026
	5	5	5	7	7	29	17,400	5.10	29,000	8.50	34,800	10.20	993	1,897	3,026
	5	5	5	7	9	31	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	7	7	7	31	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	5	12	32	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	9	9	33	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	9	9	33	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	7	7	33	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	7	12	34	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	5	15	35	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	7	9	9	35	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	7	9	35	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	7	7	7	7	35	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	9	12	36	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	7	7	12	36	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	7	15	37	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	9	9	9	37	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	9	9	37	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	5	18	38	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	7	12	38	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	9	15	39	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	12	12	39	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	7	7	15	39	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	7	7	18	39	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	9	9	9	39	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	9	12	40	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	9	12	40	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	7	12	40	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	7	15	40	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	7	9	15	41	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	7	15	41	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	9	9	9	9	41	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	9	9	41	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	9	18	42	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260	
	5	5	12	15	42	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260	
	5	7	7	18	42	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260	
	5	7	9	12	42	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260	
	5	7	9	12	42	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260	
	5	7	9	15	43	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260	
	5	7	9	12	43	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260	
	5	7	7	12	43	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260	
	5	7	7	15	43	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260	
	5	9	9	9	9	43	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	12	15	44	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260	
	5	7	9	9	12	44	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	9	15	44	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260	
	5	7	7	15	44										

# COMBINATION TABLE

RESIDENTIAL

MULTI SPLIT

## COMBINATION TABLE



MU5R30

OPERATION	HEATING					TOTAL CAPACITY						INPUT(W)			
	COMBINATION OF INDOOR UNIT (kBtu/h CLASS)					MIN.		RATED		MAX.					
	UNIT-A	UNIT-B	UNIT-C	UNIT-D	UNIT-E	TOTAL	Btu/h	kW	Btu/h	kW	Btu/h	kW	MIN.	RATED	MAX.
3 UNIT	7	18	18			43	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	12	24			43	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	15	24			44	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	9	18	18			45	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	9	12	24			45	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	12	15	18			45	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	15	15	15			45	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	15	24			46	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	18	24			47	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	9	15	24			48	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	12	18	18			48	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	12	12	24			48	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	15	15	18			48	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	5	5	5		20	14,400	4.22	24,000	7.03	28,800	8.44	840	1,480	2,100
	5	5	5	7		22	15,840	4.64	26,400	7.74	31,680	9.28	927	1,651	2,470
	5	5	5	9		24	17,280	5.06	28,800	8.44	34,560	10.13	1,038	1,826	2,861
	5	5	7	7		24	17,280	5.06	28,800	8.44	34,560	10.13	1,038	1,826	2,861
	5	5	7	9		26	18,720	5.49	31,200	9.14	37,440	10.97	1,128	2,068	3,349
	5	7	7	7		26	18,720	5.49	31,200	9.14	37,440	10.97	1,128	2,068	3,349
	5	5	5	12		27	19,440	5.70	32,400	9.50	38,640	11.32	1,174	2,230	3,524
	5	5	9	9		28	20,160	5.91	33,600	9.85	38,640	11.32	1,220	2,356	3,524
	5	7	7	9		28	20,160	5.91	33,600	9.85	38,640	11.32	1,220	2,356	3,524
	7	7	7	7		28	20,160	5.91	33,600	9.85	38,640	11.32	1,220	2,356	3,524
	5	5	7	12		29	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	5	5	15		30	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	7	9	9		30	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	5	9	12		31	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	7	7	12		31	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	5	7	15		32	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	9	9		32	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	9	9	9		32	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	5	5	18		33	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	7	9	12		33	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	7	12		33	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	5	9	15		34	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	5	12	12		34	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	7	7	15		34	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	9	9	9		34	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	5	7	18		35	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	9	9	12		35	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	9	12		35	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	7	9	15		36	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	7	12	12		36	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	7	15		36	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	9	9	9	9		36	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	5	9	18		37	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	5	12	15		37	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	7	7	18		37	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	

# OUTDOOR UNITS

# R410A MULTI SPLIT



OUTDOOR			MU5M40 U44
Compressor	Type		Scroll
Capacity*	Cooling	Min. / Nom. / Max. kW	1.3 / 11.2 / 14.7
	Heating	Min. / Nom. / Max. kW	1.5 / 12.5 / 16.0
Low Temperature Capacity	Heating -7°C	Max. kW	11.0
Power Input*	Cooling	Min. / Nom. / Max. kW	0.4 / 3.3 / 5.5
	Heating	Min. / Nom. / Max. kW	0.4 / 3.2 / 5.6
Running Current*	Cooling	Min. / Nom. / Max. A	1.8 / 14.9 / 24.9
	Heating	Min. / Nom. / Max. A	1.9 / 14.5 / 25.4
EER			3.40
COP			3.90
SEER			7.10
SCOP			4.00
Pdesign (@-10°C)		kW	8.90
Season Energy Label	Cooling / Heating (A+++ to D Scale)		A++ / A+
Annual Energy Consumption	Cooling / Heating	kWh	552 / 3,114
Airflow Rate	Nom.	m³/min	80
Sound Pressure Level	Cooling	Nom. dB(A)	53
	Heating	Nom. dB(A)	55
Sound Power Level	Cooling	Max. dB(A)	67
Dimensions	W x H x D	mm	950 x 834 x 330
Net Weight		kg	73
Refrigerant	Type		R410A
	Charge	kg	3.4
	Additional Charge	g/m	20
	GWP		2087.5
	t-CO <sub>2</sub> eq		7.098
Operation Range (Outdoor)	Cooling	Min. / Max. °C DB	-10 / 48
	Heating	Min. / Max. °C WB	-25 / 18
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Power Supply Cable		No. x mm²	3C x 4.0
Transmission Cable		No. x mm²	4C x 0.75
Circuit Breaker		A	40
Piping Length Total		m	85
Piping Length per Branch	Max.	m	25
Piping Elevation Difference	IDU - ODU	Max. m	15
	IDU - IDU	Max. m	7.5
Piping Connection	Liquid	mm (inch) x No.	Ø6.35 (1/4) x 5
	Gas	mm (inch) x No.	Ø9.52 (3/8) x 5

※ For our policy of continuous product improvement, specification, design and features are subject to change without prior notice.

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

Cooling : - Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB - Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB  
 Heating : - Indoor Temperature 20°C (68°F) DB / 15°C (59°F) WB - Outdoor Temperature 7°C (44.6°F) DB / 6°C (42.8°F) WB  
 Piping Length - Interconnecting Piping Length 7.5m - Level Difference of Zero.

2. \* : See page "Combination Table".

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

4. At least two indoor units should be connected.

5. Minimum combination capacity rate should be more than 40%.

6. This product contains fluorinated greenhouse gases. (R410A)

## OUTDOOR UNITS



OUTDOOR			FM40AH U34	FM48AH U34	FM56AH U34
Compressor	Type	-	Scroll	Scroll	Scroll
Cooling	Min. / Nom. / Max.	kW	2.8 / 12.3 / 15.4	3.3 / 14.1 / 17.0	4.0 / 15.5 / 18.5
Capacity*	Heating	Min. / Nom. / Max.	kW	3.1 / 13.5 / 16.2	3.7 / 16.0 / 17.3
Low Temperature Capacity	Heating	Max.	kW	12.5	14.5
Power Input*	Cooling	Min. / Nom. / Max.	kW	0.82 / 2.42 / 4.90	0.96 / 3.12 / 5.30
	Heating	Min. / Nom. / Max.	kW	0.89 / 2.87 / 5.10	1.06 / 3.76 / 5.40
Running Current*	Cooling	Min. / Nom. / Max.	A	3.7 / 11.0 / 22.2	4.4 / 14.1 / 24.0
	Heating	Min. / Nom. / Max.	A	4.0 / 13.0 / 23.1	4.8 / 17.0 / 24.5
EER				5.08	4.51
COP				4.70	4.25
SEER				7.40	7.20
SCOP				4.20	4.20
Pdesign(@-10°C)		kW		8.6	9.5
Seasonal Energy Label (A++ to E Scale)	Cooling / Heating	-	- / -	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	981 / 2,867	1,167 / 3,167	1,348 / 3,167
Air Flow Rate	Nom.	m³/min x No.	110	110	110
Sound Pressure Level	Cooling	Nom.	dB(A)	51	53
	Heating	Nom.	dB(A)	53	55
Sound Power Level	Cooling	Max.	dB(A)	69	71
	Heating	Max.	dB(A)	70	72
Dimensions	W x H x D	mm	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight		kg	87	87	87
	Type	-	R410A	R410A	R410A
Refrigerant	Charge	kg	4,200	4,200	4,200
	Additional Charging Volume	g/m	20	20	20
	GWP (Global Warming Potential)	-	2,087.5	2,087.5	2,087.5
	t-CO <sub>2</sub> eq	-	8.768	8.768	8.768
Operation Range (Outdoor)	Cooling	Min. / Max.	°C DB	-10 / 48	-10 / 48
	Heating	Min. / Max.	°C WB	-25 / 18	-25 / 18
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable		No. x mm²	3C x 4.0	3C x 4.0	3C x 4.0
Transmission Cable	ODU-BD	No. x mm²	4C x 1.25	4C x 1.25	4C x 1.25
	BD-IDU	No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker		A	40	40	40
	Total Piping (Main+Total Branch)	m	125	135	145
Max Piping Length	Main Piping	m	55	55	55
	Total Branch Piping	m	70	80	90
	Each Branch Piping	m	15	15	15
Piping Elevation Difference	IDU-ODU	Max.	m	30	30
	IDU-IDU	Max.	m	15	15
Piping Connections	Liquid	mm (inch) x No.	Ø9.52 x 1	Ø9.52 x 1	Ø9.52 x 1
	Gas	mm (inch) x No.	Ø19.05 x1	Ø19.05 x1	Ø19.05 x1

※ For our policy of continuous product improvement, specification, design and features are subject to change without prior notice.

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

Cooling : - Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB - Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB  
Heating : - Indoor Temperature 20°C (68°F) DB / 15°C (59°F) WB - Outdoor Temperature 7°C (44.6°F) DB / 6°C (42.8°F) WB

Piping Length - Interconnecting Piping Length 7.5m - Level Difference of Zero.

2. \* : See page "Combination Table".

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

4. At least two indoor units should be connected.

5. Minimum combination capacity rate should be more than 40%.

6. This product contains fluorinated greenhouse gases. (R410A)

OUTDOOR			FM41AH U34	FM49AH U34	FM57AH U34
Compressor	Type	-	Scroll	Scroll	Scroll
Cooling	Min. / Nom. / Max.	kW	2.8 / 12.3 / 15.4	3.3 / 14.1 / 17.0	4.0 / 15.5 / 18.5
Capacity*	Heating	Min. / Nom. / Max.	kW	3.1 / 13.5 / 16.2	3.7 / 16.0 / 17.3
Low Temperature Capacity	Heating	Max.	kW	12.5	14.5
Power Input*	Cooling	Min. / Nom. / Max.	kW	0.82 / 2.42 / 4.90	0.96 / 3.12 / 5.30
	Heating	Min. / Nom. / Max.	kW	0.89 / 2.87 / 5.10	1.06 / 3.76 / 5.40
Running Current*	Cooling	Min. / Nom. / Max.	A	1.2 / 3.6 / 7.4	1.4 / 4.7 / 8.0
	Heating	Min. / Nom. / Max.	A	1.3 / 4.3 / 7.7	1.6 / 5.7 / 8.1
EER				5.08	4.51
COP				4.70	4.25
SEER				7.40	7.20
SCOP				4.20	4.20
Pdesign(@-10°C)		kW		8.6	9.5
Seasonal Energy Label (A++ to E Scale)	Cooling / Heating	-	- / -	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	981 / 2,867	1,167 / 3,167	1,348 / 3,167
Air Flow Rate	Nom.	m³/min x No.	110	110	110
Sound Pressure Level	Cooling	Nom.	dB(A)	51	53
	Heating	Nom.	dB(A)	53	55
Sound Power Level	Cooling	Max.	dB(A)	69	71
	Heating	Max.	dB(A)	70	72
Dimensions	W x H x D	mm	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight		kg	87	87	87
	Type	-	R410A	R410A	R410A
Refrigerant	Charge	kg	4,200	4,200	4,200
	Additional Charging Volume	g/m	20	20	20
	GWP (Global Warming Potential)	-	2,087.50	2,087.50	2,087.50
	t-CO <sub>2</sub> eq	-	8.768	8.768	8.768
Operation Range (Outdoor)	Cooling	Min. / Max.	°C DB	-10 / 48	-10 / 48
	Heating	Min. / Max.	°C WB	-25 / 18	-25 / 18
Power Supply		Ø / V / Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable		No. x mm²	5C x 2.5	5C x 2.5	5C x 2.5
Transmission Cable	ODU-BD	No. x mm²	4C x 1.25	4C x 1.25	4C x 1.25
	BD-IDU	No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker		A	20	20	20
	Total Piping (Main+Total Branch)	m	125	135	145
Max Piping Length	Main Piping	m	55	55	55
	Total Branch Piping	m	70	80	90
	Each Branch Piping	m	15	15	15
Piping Elevation Difference	IDU-ODU	Max.	m	30	30
	IDU-IDU	Max.	m	15	15
Piping Connections	Liquid	mm (inch) x No.	Ø9.52 x 1	Ø9.52 x 1	Ø9.52 x 1
	Gas	mm (inch) x No.	Ø19.05 x1	Ø19.05 x1	Ø19.05 x1

※ For our policy of continuous product improvement, specification, design and features are subject to change without prior notice.

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

Cooling : - Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB - Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB  
Heating : - Indoor Temperature 20°C (68°F) DB / 15°C (59°F) WB - Outdoor Temperature 7°C (44.6°F) DB / 6°C (42.8°F) WB

Piping Length - Interconnecting Piping Length 7.5m - Level Difference of Zero.

2. \* : See page "Combination Table".

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

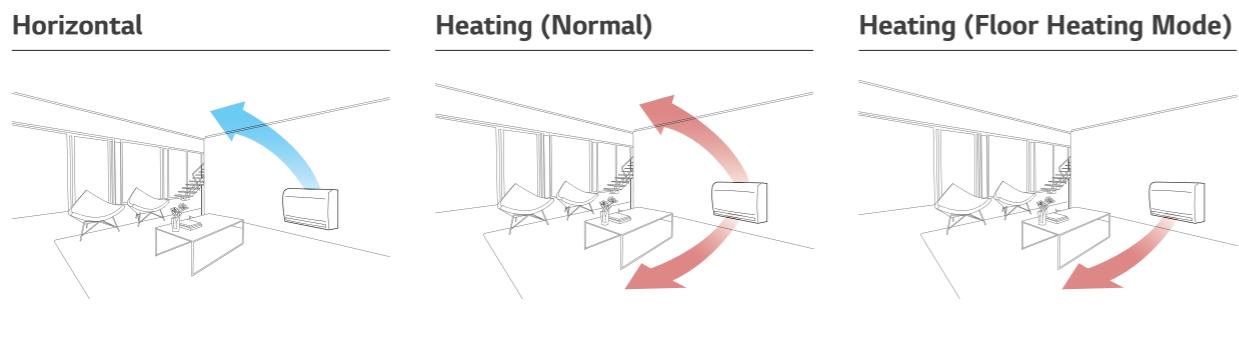
4. At least two indoor units should be connected.

5. Minimum combination capacity rate should be more than 40%.

6. This product contains fluorinated greenhouse gases. (R410A)

## Optimized Air Flow for Cooling & Heating

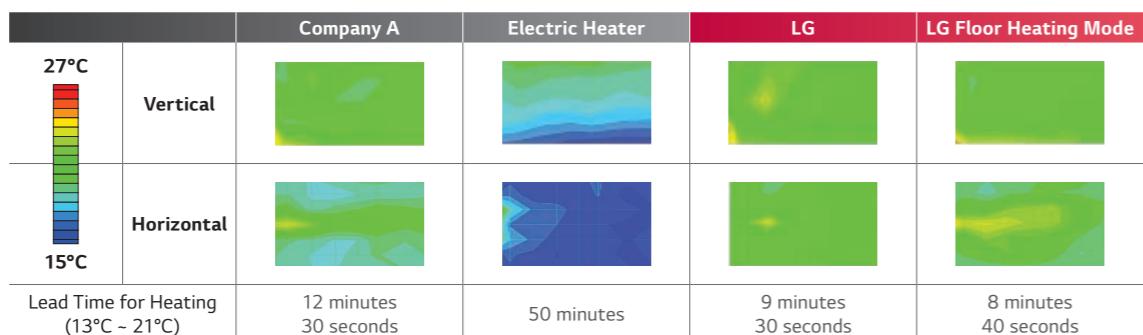
During cooling operation, the vane adjusts upwards to direct air flow toward the ceiling. During heating operation, the vane directs the air flow toward the floor to balance out the room temperature. A wireless controller is included with the indoor console unit.



	CAPACITY (kW)	2.6	3.5	5.3
Console		CQ09 NAO	CQ12 NAO	CQ18 NAO

## Quick Floor Heating

Console air conditioners offer a fast and powerful performance. Using the floor heating mode, console air conditioners provide faster floor heating and help to reach the desired temperature quickly.



※ Test Condition : Target Temp 23°C, Indoor Room : 13°C~, Outdoor Room : 7°C

## 5-Step Vane Control

There are 5 different stages to control air flow direction.



## Console

INDOOR				CQ09 NAO
Capacity	Cooling / Heating	Nom.	kW	2.6 / 2.9
Power Input		Nom.	W	20
Running Current		Nom.	A	0.6
Power Supply		Ø / V / Hz		1 / 220-240 / 50
Air Flow Rate	H / M / L	m³/min		8.5 / 6.7 / 5.0
Sound Pressure	Cooling	H / M / L	dB(A)	38 / 32 / 27
Sound Power	Cooling	Max.	dB(A)	53
Dehumidification Rate		I/h		1.2
Dimensions	Body	W x H x D	mm	700 x 600 x 210
Net Weight	Body		kg	14.0
Piping Connection	Liquid	mm (inch)		Ø6.35 (1/4)
	Gas	mm (inch)		Ø9.52 (3/8)

INDOOR				CQ12 NAO	CQ18 NAO
Capacity	Cooling / Heating	Nom.	kW	3.5 / 3.9	5.3 / 5.8
Power Input		Nom.	W	20	40
Running Current		Nom.	A	0.6	0.7
Power Supply		Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate	H / M / L	m³/min		9.0 / 6.9 / 5.2	10.1 / 8.6 / 7.2
Sound Pressure	Cooling	H / M / L	dB(A)	39 / 32 / 27	44 / 39 / 35
Sound Power	Cooling	Max.	dB(A)	56	60
Dehumidification Rate		I/h		1.4	2.3
Dimensions	Body	W x H x D	mm	700 x 600 x 210	700 x 600 x 210
Net Weight	Body		kg	14.0	14.0
Piping Connection	Liquid	mm (inch)		Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas	mm (inch)		Ø9.52 (3/8)	Ø12.7 (1/2)

※ R32 Console compatible for both SCAC and MULTI will be 2nd half of 2021.

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

Cooling : - Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB - Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB  
Heating : - Indoor Temperature 20°C (68°F) DB / 15°C (59°F) WB - Outdoor Temperature 7°C (44.6°F) DB / 6°C (42.8°F) WB  
Piping Length - Interconnecting Piping Length 7.5m - Level Difference of Zero.

2. Definition of Power Input Nominal conditions - Performance tested under EN14511
3. Due to our policy of innovation some specifications may be changed without notification.
4. This product contains fluorinated greenhouse gases. (R410A)

## Cassette Panel

The Independent Vane Operation makes desired and comfortable air flow.

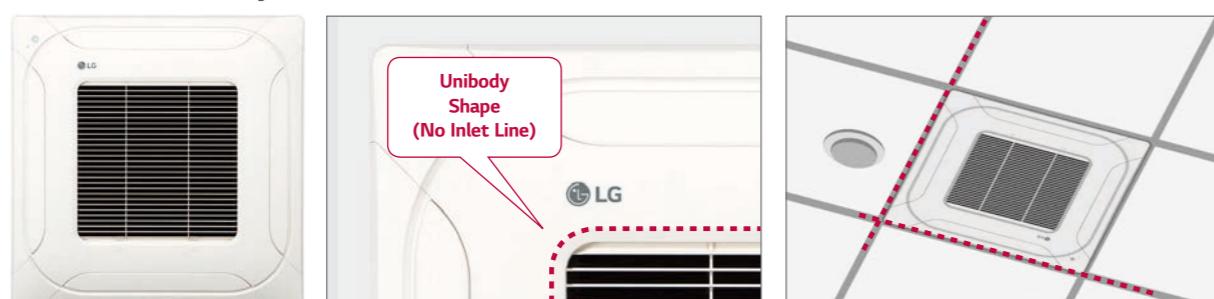


### Key Features

- Independent vane operation uses separate motors, making it possible to control all 1, 2, and 4 vanes independently.
- The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain pipe and refrigerant pipes.

### Compact and Stylish Design

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



### Specification

Model	Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)			Applied Model Capacity (kW)*						
					Dimension (mm)			Single Split		Multi Split		Multi V		
					W	H	D	R32	R410A	R32	R410A	R32	R410A	
4 Way	PT-QCHW0	Grill	Morning Fog (RAL 9001)	X	3.0	620	35	620	2.5-5.0	2.5-5.0	1.5-5.3	1.5-5.3	1.6-6.2	1.6-6.2
	PT-UQC	Grill	Morning Fog (RAL 9001)	X	3.0	700	22	700	2.5-5.0	2.5-5.0	1.5-5.3	1.5-5.3	1.6-6.2	1.6-6.2
	PT-QAGW0	Grid	White (RAL 9003)	X	2.9	620	35	620	2.5-5.0	2.5-5.0	1.5-5.3	1.5-5.3	1.6-6.2	1.6-6.2
2 Way	PT-USC	Grill	Morning Fog (RAL 9001)	X	4.7	1,100	28	690					2.8-7.1	2.8-7.1
	PT-UAHGO	Grill	White (RAL 9003)	O	3.9	1,160	34	500			2.6-3.5	2.6-3.5	2.2-3.6	2.2-3.6
1 Way	PT-UAHWO	Grill	White (RAL 9003)	X	3.3	1,100	34	500			2.6-3.5	2.6-3.5	2.2-3.6	2.2-3.6
	PT-UPHGO	Grill	White (RAL 9003)	O	4.1	1,160	34	500			2.6-3.5	2.6-3.5	2.2-3.6	2.2-3.6

\* Based on cooling capacity  
※ O : Applied, - : Not applied

## Dual Vane Cassette Panel



### Model Name

PT-AAGW0  
PT-AFGW0

### Key Features

Model	Function					
	Dual Vane	Wi-Fi	Floor Temperature Sensor	Air Purification	Elevating Grille	Human Detection Sensor
PT-AAGW0	O	Optional	Optional	X	X	Optional
PT-AFGW0	O	Optional	Optional	Optional (Dust Sensor, Tact Switch)	X	Optional

### Specification

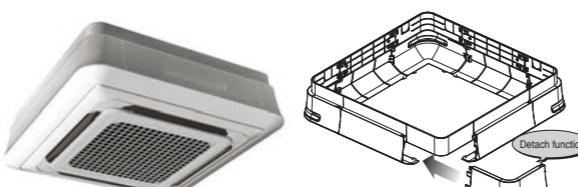
Model	Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)		
					W	H	D
PT-AAGW0	Grid	White (RAL 9003)	-	7.1	950	35	950
PT-AFGW0	Grid	White (RAL 9003)	-	7.5	950	35	950

### Air Purification Kit

Model	Image	Model name	Dielectric Dust collecting filter	Photocatalytic Deodorizing filter	HVPS	Ionizer
Air cleaning kit		PTAHMPO		0	0	0
		PTAHTP0		0	0	0

## Cassette Cover

Cover in case of exposed cassette installation.



### Model Name

PTDCM / PTDCQ

### Applied Products

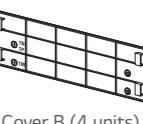
4 Way Cassette (for chassis TB, TQ, TR)

### Included Parts

- Cover A, Cover B
- Cover C, Cover D
- Screws
- Installation Manual



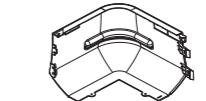
Cover A (4 units)



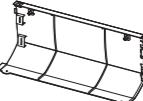
Cover B (4 units)



Screw (32 units)



Cover C (4 units)



Cover D (4 units)



Installation Manual

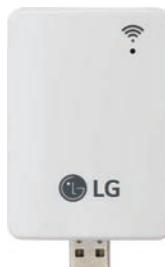
### Specification

Model	Front Panel	Weight (kg)		Dimensions (mm)			
		NET	Gross	W	H	D	
PTDCM	PT-AAGW0 PT-AFGW0	5.9	8.8	1,157	1,157	268	
PTDCQ	PT-UQC	TR	5.0	7.2	907	907	268
		TQ	5.0	7.2	907	907	310

# ACCESSORIES

## LG Wi-Fi Modem

Control conditioners by using internet devices as Android or iOS smartphones.



PWFMD200

### Features

- User can enjoy anytime, anywhere access with Wi-Fi equipped device through LG's ThinQ mobile app.
- This allows the user to access the unit remotely to switch unit on or off before or after leaving the vicinity.
- LG's exclusive Home Appliances control app (LG ThinQ) is available.
- Simple operation for various functions.
  - On / Off
  - Reservation (Sleep, Weekly On / Off)
  - Operation Mode
  - Energy Monitoring<sup>2)</sup>
  - Current / Set Temperature
  - Filter Management
  - Fan Speed
  - Error Check
  - Vane Control<sup>1)</sup>
  - Air Purify<sup>3)</sup>

Model Name	PWFMD200
Size (W x H x D, mm)	48 x 68 x 14
Interfaceable Products	System Air Conditioner <sup>3)</sup>
Connection Type	Indoor unit 1:1
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b/g/n
Mobile Application	LG ThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or higher)
Optional Extension Cable	PWYREW000 (10m extension)

Note : 1. Functionality may be different according to each IDU model.

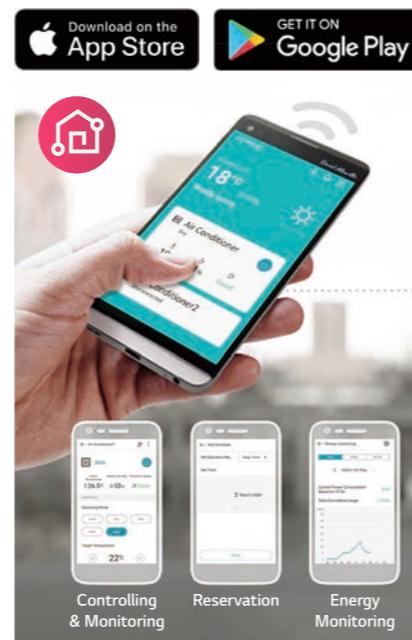
2. User interface of application shall be revised for its design and contents improvement.

3. Application is optimized for smartphone use, so it may not be well functioning with tablet devices.

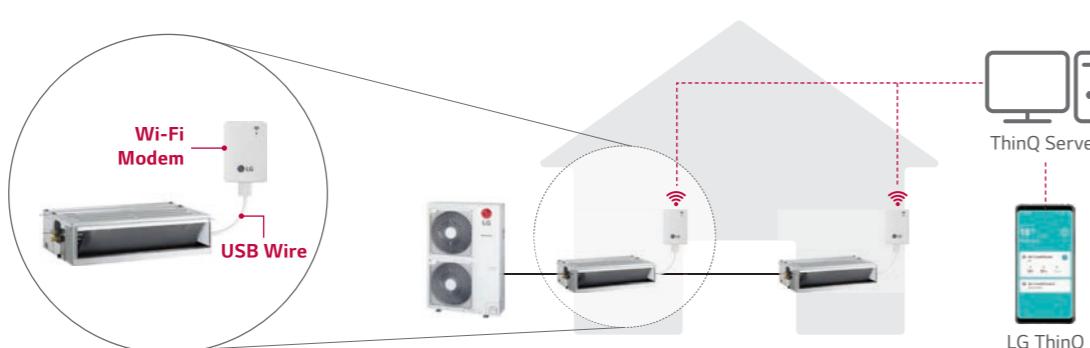
1) Vane Control may not be possible according to the type of Indoor unit.

2) LG Centralized controller and PDI installation is required for this function.

3) For the compatibility with Indoor unit, please contact regional LG office.



### Overview



※ Search "LG ThinQ" on Google market or Appstore then download the app.  
※ Internet service with Wi-Fi connection has to be available.

## Standard Wired Remote Controller



Standard III  
PREMTB100      Standard III  
PREMTBB10



Standard II  
PREMTB001      Standard II  
PREMTBB01

Model Name	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01
Operation Mode	On / Off, Fan Speed Control, Temperature Setting	
Mode Change	Cooling, Heating, Auto, Dehumidification, Fan	
Auto Swing / Vane Control	•	•
Reservation	Simple, Sleep, On / Off, Weekly, Holiday	
Time Display	•	•
Electrical Failure Compensation	•	•
Child Lock	•	•
Operation Status LED	•	•
Indoor Temperature Display	•	•
Wireless Remote Controller Receiver	-	•
Size (W x H x D, mm)	120 x 120 x 16	120 x 121 x 16
Backlight	•	•

## Remote Controller



PQWRHQOFDB

※ Only some of controllers have back light feature.

## PI 485



PMNFP14A1

Power : Single phase AC 220V 50/60Hz

Max. no. of the indoor units that can be connected : 64 UNITS

Model applied : RAC / Multi / Single / Therma V

※ Refer to each product PDB for applicable models.

## Dry Contact



PDRYCB000      PDRYCB400  
PDRYCB320      PDRYCB500

※ Refer to each product PDB for applicable models.

Model	PDRYCB000	PDRYCB400	PDRYCB320	PDRYCB500
Contact Point	1 Control Point	2 Control Point	8 Control Point	Modbus RTU
Power Input	AC 220V from outside power source	DC 5V & 12V from indoor unit PCB	DC 5V & 12V from indoor unit PCB	DC 5V & 12 V from indoor unit PDB
Voltage / Non Voltage Input	-	•	•	-
On / Off Control	•	•	•	•
Lock / Unlock	•	•	•	•
Fan Speed Setting	-	-	•	•
Thermo Off	-	•	•	-
Energy Saving	-	•	-	-
Temperature Setting	-	•	•	•
Error Monitoring	•	•	•	•
Operation Monitoring	•	•	•	•

## Distributor Box

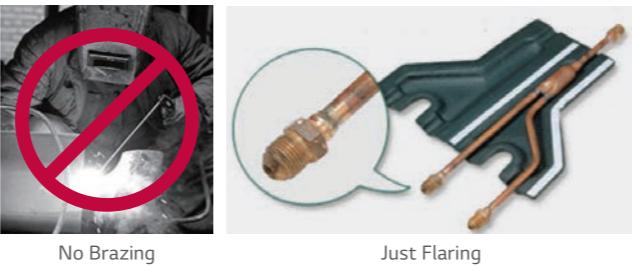
Easy installation using the range of Distributor Boxes. Various distributors can make much easier installation for any sites.



PMBD3620 (2 Indoors)   PMBD3630 (3 Indoors)   PMBD3640 (4 Indoors)

### Features

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



### Specification

Model Name		PMBD3620	PMBD3630	PMBD3640
Connectable Indoor Units	Number of Indoor Units	1 ~ 2	1 ~ 3	1 ~ 4
	Capacity	5k / 7k / 9k / 12k / 18k / 24k	5k / 7k / 9k / 12k / 18k / 24k	5k / 7k / 9k / 12k / 18k / 24k
Power Source	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Consumption	W	10	10	10
Running Current	A	0.05	0.05	0.05
Dimensions	W x H x D mm (inch)	302 x 143 x 252 (11.9 x 5.6 x 9.9)	302 x 143 x 252 (11.9 x 5.6 x 9.9)	302 x 143 x 252 (11.9 x 5.6 x 9.9)
Net Weight	kg/lb	4.8 / 10.6	4.9 / 10.8	5 / 11
Piping Connection (To Outdoor Unit)	Liquid mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52(3/8)
	Gas mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05(3/4)
Piping Connection (To Indoor Unit)	Liquid mm (inch)	Ø6.35 (1/4) x 2EA	Ø6.35 (1/4) x 3EA	Ø6.35 (1/4) x 4EA
	Gas mm (inch)	Ø9.52 (3/8) x 2EA	Ø9.52 (3/8) x 3EA	Ø9.52 (3/8) x 4EA
Accessories	Hanger (Bracket)	4	4	4
	Screw EA	8	8	8
	Manual EA	1	1	1

※ For our policy of continuous product improvement, specification, design and features are subject to change without prior notice.

Note : 1. The piping connection must be suit the piping sizes of the indoor unit which will be connected.

(If need, use the connector which is included in the indoor unit)

2. The BD should be installed inside the building.

## Y Branch and Branch Kit

Easy installation using the range of Distributor Boxes. Various distributors can make much easier installation for any sites.



PMBL5620 (2 units)

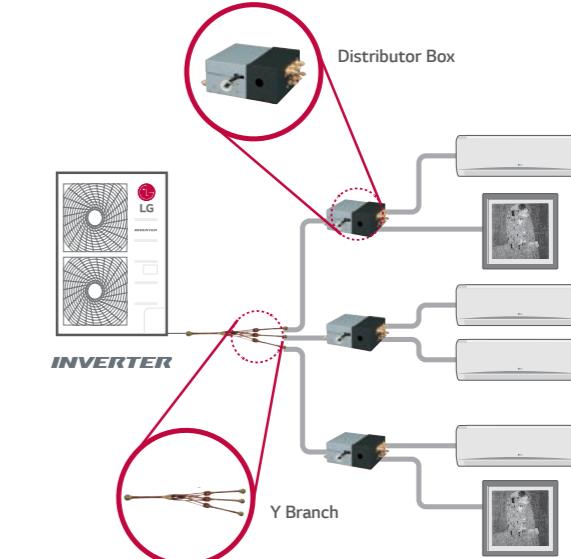
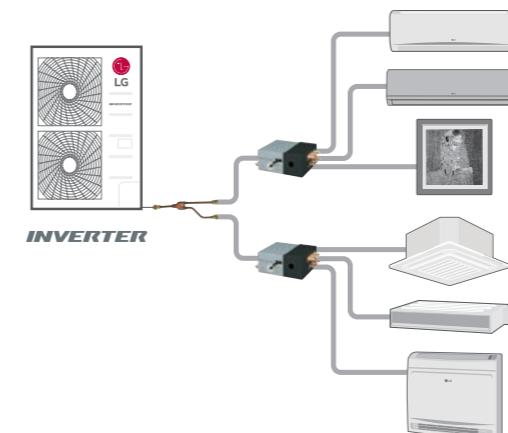


PMBL1203F0 (3 units)

### Features

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

### Application



### Accessory Model Name

Model Name	No. of Branch distribution units	Applicable Model	Specification	
			Gas	Liquid
PMBL5620	2 Units	1Ø, 3Ø	Ø19.05 Ø9.52	Ø19.05 Ø9.52
PMBL1203F0	3 Units	1Ø, 3Ø	Ø19.05	Ø9.52

# 146-275 **COMMERCIAL**

SINGLE SPLIT



## H-INVERTER (R32)

kBtu/h kW	Type	Ceiling Mounted Cassette	H-INVERTER (R32)		ODU	STANDARD INVERTER (R32)							
			Ceiling Concealed Duct		Ceiling Suspended	Ceiling Concealed Duct		Ceiling Suspended	Wall Mounted	Console	ODU		
			Mid Static	Low Static		Mid Static	Low Static				1Ø	3Ø	
9	2.5	UT09FH NQ0				CT09F NRO		CL09F N50	MJ09PC NSJ	UQ09F NAO	UUA1 ULO		
12	3.4	UT12FH NQ0	UM12FH N10	UL12FH N50	UUA1 ULO	CT12F NRO		CL12F N50	MJ12PC NSJ	UQ12F NAO	UUA1 ULO		
18	5.0	UT18FH NBO	UM18FH N10	UL18FH N30	UV18FH N10	UUB1 U20	CT18F NQ0	CM18F N10	CL18F N60	UV18F N10	MJ18PC NSK	UQ18F NAO	UUB1 U20
24	6.8	UT24FH NAO	UM24FH N20		UV24FH N20	UUC1 U40	CT24F NBO	CM24F N10	CL24F N30	UV24F N10	MJ24PC NSK	UUA1 ULO	
30	8.0	UT30FH NAO	UM30FH N20		UV30FH N20	UUC1 U40	UT30F NBO	UM30F N10		UV30F N10	US30F NRO	UUB1 U20	
36	9.5	UT36FH NAO	UM36FH N30		UV36FH N20	UUD1 U30	UT36F NAO	UT36F NYO	UM36F N20	UV36F N20	US36F NRO	UUC1 U40	
42	12.0	UT42FH NAO	UM42FH N30		UV42FH N20	UUD1 U30	UT42F NAO		UM42F N20	UV42F N20	UUD1 U30	UUD3 U30	
48	13.4	UT48FH NAO	UM48FH N30			UT48F NAO	UT48F NYO	UM48F N30		UV48F N20		UU48W U32	UU49W U32
60	14.6	UT60FH NAO				UT60F NAO		UM60F N30		UV60F N20		UU70W U34	UU85W U74
70	20.0										UB70N94		
85	25.0										UB85N94		

## STANDARD INVERTER (R32)

## COMPACT INVERTER (R32)

## STANDARD INVERTER (R410A)

kBtu/h kW	Type	Ceiling Mounted Cassette	COMPACT INVERTER (R32)				ODU	STANDARD INVERTER (R410A)					
			Ceiling Concealed Duct		Ceiling Suspended	Wall Mounted	Floor Standing						
			Mid Static	Low Static									
9	2.5												
12	3.4												
18	5.0	CT18F NQ0	CM18F N10	CL18F N60	UV18F N10	MJ18PC NSK	UQ18F NAO	UUA1 ULO					
24	6.8	CT24F NBO	CM24F N10	CL24F N30	UV24F N10	MJ24PC NSK	UUA1 ULO						
30	8.0	UT30F NBO	UM30F N10		UV30F N10	US30F NRO	UUB1 U20						
36	9.5	UT36F NAO	UM36F N20		UV36F N20	US36F NRO	UUC1 U40						
42	12.0				UV42F N20	UUD1 U30	UUD3 U30						
48	13.4				UV48F N20	UU48W U32	UU49W U32						
60	14.6												
70	20.0							UB70N94					
85	25.0							UB85N94					

# SINGLE SPLIT



# FEATURE OVERVIEW

CATEGORY	H-INVERTER (R32)									
	kBtu/h	9	12	18	24	30	36	42	48	60
kW	2.5	3.4	5.0	6.8	8.0	9.5	12.0	13.4	14.6	
Supreme Energy Efficiency	BLDC Comp & Fan Motor	●	●	●	●	●	●	●	●	●
	Eurovent Certi.	●	●	●	●	●	●	●	●	●
	High Level SEER / SCOP	●	●	●	●	●	●	●	●	●
	Variable Voltage Control	●	●	●	●	●	●	●	●	●
	Wide Louver Fin	●	●	●	●	●	●	●	●	●
	Optimised Heat Exchanger Path			●	●	●	●	●	●	●
	Power Saving Start up	●	●	●	●	●	●	●	●	●
	Peak Current Control		●	●	●	●	●	●	●	●
	Mode Lock	●*	●*	●	●	●	●	●	●	●
	Standby Mode	●	●	●	●	●	●	●	●	●
Comfort Environment	Comfort Cooling with Humidity sensor**			●	●	●	●	●	●	●
	Night Silent Operation			●	●	●	●	●	●	●
	Continuous Cooling Operation	●	●	●	●	●	●	●	●	●
High Performance & Reliability	Quick & Reliable Operation	●	●	●	●	●	●	●	●	●
	R1 Compressor				●	●	●	●	●	●
	Corrosion resistance Black Fin	●	●	●	●	●	●	●	●	●
	Long Pipe Installation	●	●	●	●	●	●	●	●	●
Convenient Control System	LG ThinQ***	●	●	●	●	●	●	●	●	●
	Easy Control (PI-485 Connection)	●	●	●	●	●	●	●	●	●
	1 Point External Input****	●	●	●	●	●	●	●	●	●
	Forced Cooling Operation		●	●	●	●	●	●	●	●
	Mobile LG MV	●	●	●	●	●	●	●	●	●
	Weekly Program*****	●	●	●	●	●	●	●	●	●
Enhanced Application	Synchro function									
	Connection with AHU		●	●	●	●	●	●	●	●

\* With controller PREMTB001 / PREMTBB01 / PREMTB100 / PREMTBB100

\*\* Available only for Ceiling Mounted cassette (840 x 840), Ceiling Suspended, Console models.

\*\*\* Available with LG Wi-Fi modem(PWFMD200) and it should be connected to the indoor unit.

\*\*\*\* Available except for Wall Mounted Unit.

\*\*\*\*\* Weekly program is available with wired remote controller.

CATEGORY	STANDARD INVERTER (R32)								COMPACT INVERTER (R32)				
	kBtu/h	9	12	18	24	30	36	42	48	60	18	24	30
kW	2.5	3.4	5.0	6.8	8.0	9.5	12.0	13.4	14.6	5.0	6.8	8.0	9.5
Supreme Energy Efficiency	BLDC Comp & Fan Motor	●	●	●	●	●	●	●	●	●	●	●	●
	Eurovent Certi.	●	●	●	●	●	●	●	●	●	●	●	●
	High Level SEER / SCOP	●	●	●	●	●	●	●	●	●	●	●	●
	Variable Voltage Control	●	●	●	●	●	●	●	●	●	●	●	●
	Wide Louver Fin	●	●	●	●	●	●	●	●	●	●	●	●
	Optimised Heat Exchanger Path		●	●	●	●	●	●	●	●	●	●	●
	Power Saving Start up	●	●	●	●	●	●	●	●	●	●	●	●
	Peak Current Control		●	●	●	●	●	●	●	●	●	●	●
	Mode Lock	●*	●*	●	●	●	●	●	●	●	●	●	●
	Standby Mode	●	●	●	●	●	●	●	●	●	●	●	●
Comfort Environment	Comfort Cooling with Humidity sensor**		●	●	●	●	●	●	●	●	●	●	●
	Night Silent Operation		●	●	●	●	●	●	●	●	●	●	●
	Continuous Cooling Operation	●	●	●	●	●	●	●	●	●	●	●	●
High Performance & Reliability	Quick & Reliable Operation	●	●	●	●	●	●	●	●	●	●	●	●
	R1 Compressor				●	●	●	●	●	●	●	●	●
	Corrosion Resistance Black Fin	●	●	●	●	●	●	●	●	●	●	●	●
	Long Pipe Installation	●	●	●	●	●	●	●	●	●	●	●	●
Convenient Control System	LG ThinQ***	●	●	●	●	●	●	●	●	●	●	●	●
	Easy Control (PI-485 Connection)	●	●	●	●	●	●	●	●	●	●	●	●
	1 Point External Input****	●	●	●	●	●	●	●	●	●	●	●	●
	Forced Cooling Operation		●	●	●	●	●	●	●	●	●	●	●
	Mobile LG MV	●	●	●	●	●	●	●	●	●	●	●	●
	Weekly Program*****	●	●	●	●	●	●	●	●	●	●	●	●
Enhanced Application	Synchro Function										●	●	●
	Connection with AHU		●	●	●	●	●	●	●	●	●	●	●

\* With controller PREMTB001 / PREMTBB01 / PREMTB100 / PREMTBB100

\*\* Available only for Ceiling Mounted cassette (840 x 840), Ceiling Suspended, Console models.

\*\*\* Available with LG Wi-Fi modem(PWFMD200) and it should be connected to the indoor unit.

\*\*\*\* Available except for Wall Mounted Unit.

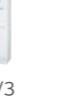
\*\*\*\*\* Weekly program is available with wired remote controller.

# FEATURE OVERVIEW

## Triple Line-up for On-site Customization

Customer has various options to select suitable model as desired condition.

H-INVERTER	STANDARD	COMPACT
High Performance	Wide Application	Compact Size
		
(13 sets)	(12 sets)	(7 sets)
		
(4 sets)	(3 sets)	(7 sets)
Total 32 Sets	Total 53 Sets	Total 16 Sets

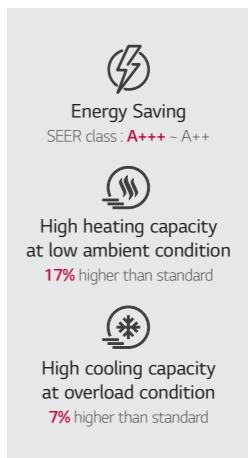
Line-up	Description	9k (2.5kW)	12k (3.4kW)	18k (5.0kW)	24k (6.8kW)	30k (8.0kW)	36k (9.5kW)	42k (12.0kW)	48k (13.4kW)	60k (14.6kW)
<b>H-INVERTER (R32)</b> SEER 	<b>High Performance</b> - Suitable for high quality functions - Maximum pipe length up to 85m * - Floor Detection Sensor (Default) - Wide Cooling operation range (-20°C ~ 52°C) & 100% Capacity at 48°C * - Wide Heating operation range (-25°C ~ 18°C) & 100% Capacity at -15°C *									
<b>STANDARD INVERTER (R32)</b> SEER 	<b>Wide Commercial Applications</b> - Suitable for wide commercial applications - Maximum pipe length up to 85m* - Synchro Function over 36k Model (Max. 4 IDUs) - Wi-Fi Modem and Floor Detection Sensor (Option) - Wide Cooling operation range (-20°C ~ 52°C)* - Wide Heating operation range (-25°C ~ 18°C)*									
<b>COMPACT INVERTER (R32)</b> SEER 	<b>Compact &amp; Cost Effective</b> - Suitable for busy environments and small shops - Very compact and easy to install - Maximum pipe length up to 50m* - Wi-Fi Modem and Floor Detection Sensor (Option) - Cooling operation range (-20°C ~ 50°C)* - Heating operation range (-15°C ~ 18°C)*									

\* This specification can be different as per each model or combination.

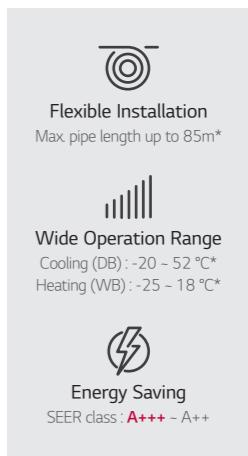
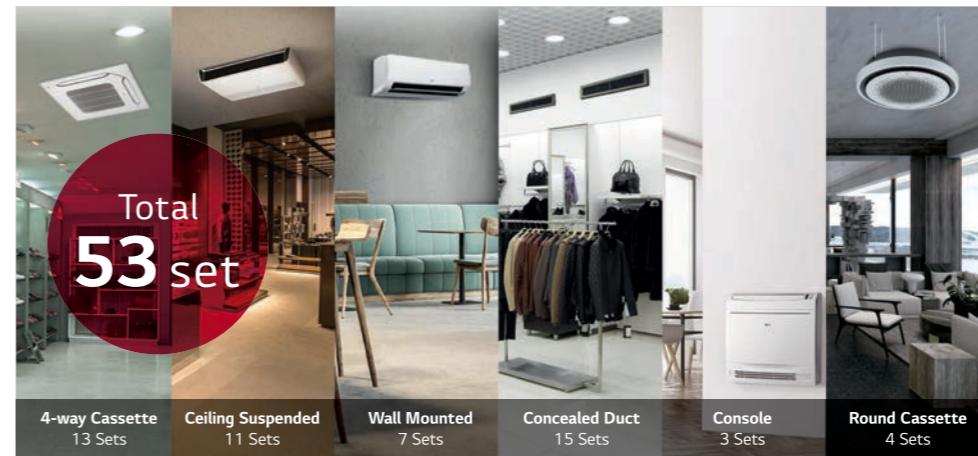
### H-Inverter : High Performance with lower energy consumption



\* This specification can be different as per each model or combination.

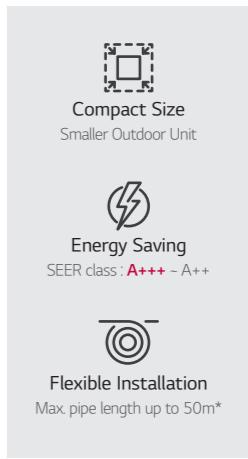
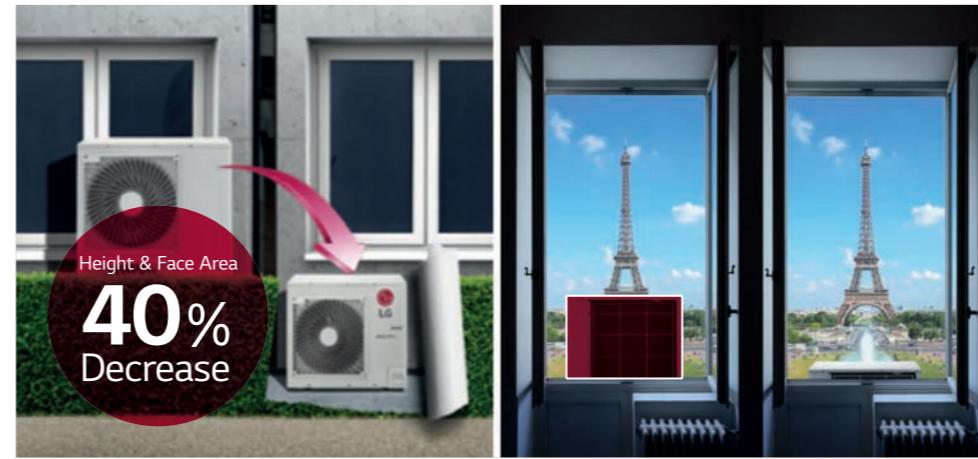


### Standard : Wide Application with diverse design range



\* This specification can be different as per each model or combination.

### Compact : Maximize Space Utilization with Compact Size

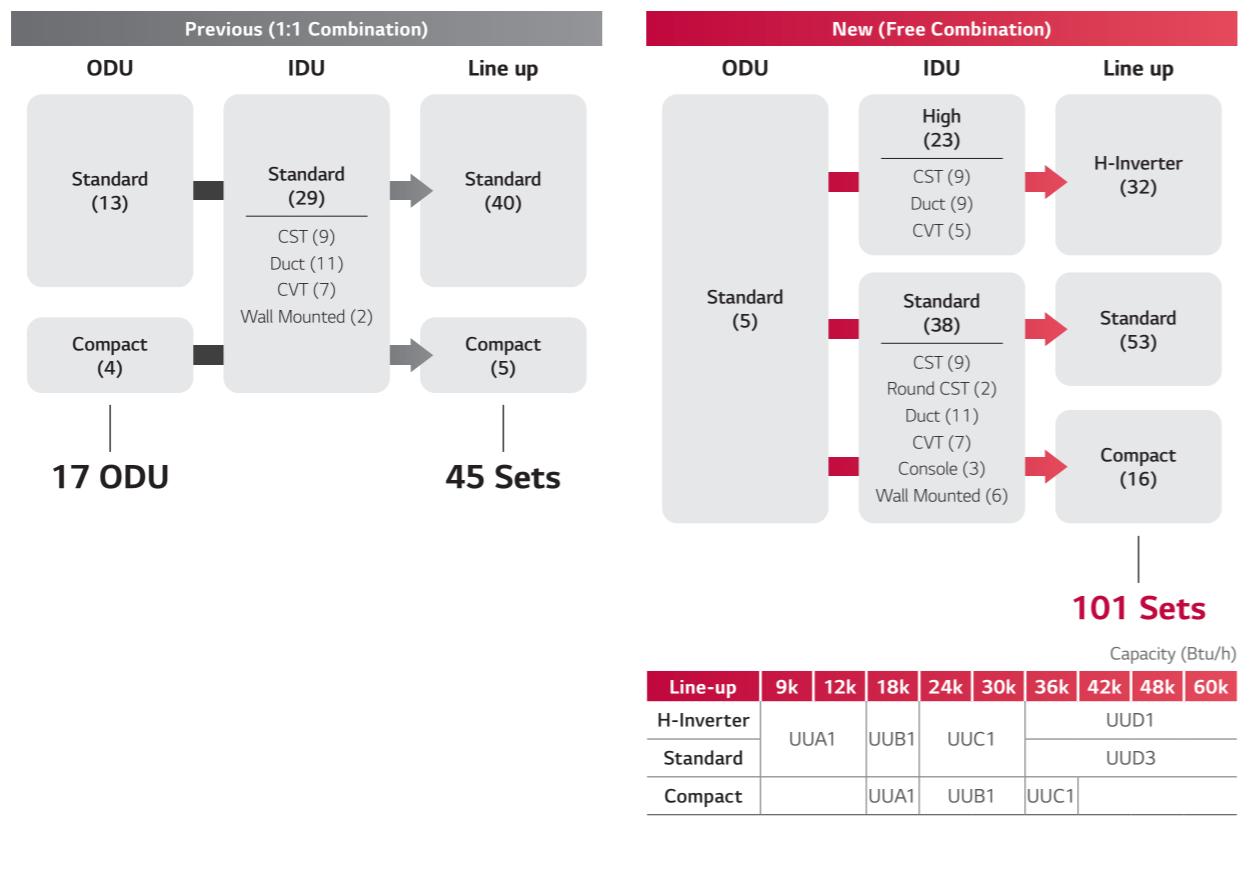


\* This specification can be different as per each model or combination.

# WHY LG SINGLE SPLIT

## Free Combination

Enables to increase LG Single Split Line-up from 45 sets to 101 sets with only 5 outdoor units.



## Differentiated Specification

LG Single split provide differentiated features (Performance / Installation / Convenience) by each product line.

Items	H-INVERTER		STANDARD		19Y Standard (R32)
	High Performance	Wide commercial applications	Compact & Cost Effective		
SEER Class	A+++ ~ A+	A++ ~ A+	A++ ~ A	A++ ~ A+	
Cooling Capacity* @48°C	112%	105%	88%	100%	
Heating Capacity* @-15°C	124%	107%	98%	100%	
Operation Range* (Cooling, DB)	-20 ~ 50 °C		-10 ~ 48 °C	-15 ~ 48 °C	
Operation Range* (Heating, WB)	-20 ~ 18 °C		-15 ~ 18 °C	-18 ~ 18 °C	
Max. Pipe Length*	50 m		35 m	50 m	
Cooling Capacity* @50m	113%	109%	-	100%	
Drain Pump (Cassette)	●	●	●	●	
Drain Pump (Mid-static Duct)	●	Accessory	Accessory	Accessory	
Humidity Control (Cassette, Suspended, Console)	●	●	●	●	
Wi-Fi (cassette)	Accessory	Accessory	Accessory	Accessory	
Floor Detection (cassette)	Accessory	Accessory	Accessory	N/A	
Air purifying (cassette)	Accessory	Accessory	Accessory	N/A	
Human detection (cassette)	Accessory	Accessory	Accessory	Accessory	
Synchro Application	N/A	36k ↑	N/A	36k ↑	
AHU Comm. Kit Application	18k ↑	18k ↑	24k ↑	18k ↑	

\* Based on internal test data for 6.8kW model. (compared to 19Y standard model)

\* This specification can be different as per each model or combination.

## Expanded Product Type

LG Single split expands from double to triple line-up including various types of indoor units.

kW	Type	2.5	3.4	5	6.8	8	9.5	12	13.4	14.6
kBtu/h	Type	9	12	18	24	30	36	42	48	60
	Outdoor Units	●		UUUA1	UUB1	UUC1			UUUD1 UUUD3	
		●		UUUA1	UUB1	UUC1				
	Ceiling Mounted Cassette	●	●	●	●	●	●	●	●	●
		●	●	●	●	●	●	●	●	●
	Round Cassette	●								
	Single Split									
	Mid Static	●		●	●	●	●	●	●	●
		●		●	●	●	●	●	●	●
	Ceiling Concealed Duct	●			●	●	●	●	●	●
		●			●	●	●	●	●	●
	Low Static	●		●	●	●	●	●	●	●
		●		●	●	●	●	●	●	●
	Ceiling Suspended	●		●	●	●	●	●	●	●
		●		●	●	●	●	●	●	●
	Console	●	●	●	●					
		●	●	●	●					
	Wall Mounted	●				●	●	●		

● H-Inverter / ● Standard / ● Compact

## Premium Solution for Retail Ceiling Cassette



### Maximizing Business, Minimizing Cost

#### Premium Design & Customer Oriented Functions

- Premium interior with brighter (white) panel suit your shop
- Customer oriented functions with intelligent functions (Direct/Indirect Mode)
- Uniform space cooling & heating by power cooling & heating mode

#### Energy Savings

- Low operation cost by High SEER products
- Adjust evaporating temperature by dual sensing (Humidity + Temperature)
- Various energy saving solutions (scheduling, energy monitoring and interlocking)
- Real-time energy monitoring

#### Ease of Operation and Maintenance

- Convenient control via smartphone
- Intuitive wired remote controller

## Customized Solution for Office Ceiling Cassette

### Supporting Efficiency with Fresh and Comfort Air

#### Comfortable Office Environment

- Human oriented air flow (Direct/Indirect/Refresh mode)
- Foot thermal comfort by floor temperature detection
- Powerful performance by power cooling & heating mode
- High ceiling operation such as lobbies and reception areas (Max. 5m)

#### Energy Savings

- Adjust evaporating temperature by dual sensing
- Low operation cost with High SEER products
- Auto on/off operation by human detection
- LG's smart central controller provides a variety of energy saving solutions (scheduling, interlocking, peak control and energy navigation)

#### Ease of Operation and Maintenance

- Convenient control via smartphone
- Easy maintenance by elevation grille
- Convenient diagnosis by black box function



## Comfort Solution for Residential Ceiling Concealed Duct



### Creating a Comfortable Home with Low Cost

#### Simple & low cost Installation for Entire House

- Cooling or heating for several rooms with one set of Ceiling Concealed Duct
- Easy control of air volume for each rooms by zone controller accessory
- Flexible installation by ESP\* control

#### Energy Savings

- Low operation cost with High SEER product
- Various energy saving solutions (scheduling, energy monitoring and interlocking)

#### Ease of Operation

- Anytime, anywhere control via smartphone
- Intuitive wired remote controller

## Optimized Solution for Technical Wall Mounted

### Reliable and Efficient Technical Cooling

#### Reliability

- Continuous cooling operation at -20 ~ 52°C\*
- Quick & Reliable operation with temperature & pressure control
- Round-the-clock cooling (24h, 365 days)
- Power cooling mode for peak time
- Duty operation via server room controller

#### Energy Savings

- Low operation cost by High SEER product
- Real-time energy monitoring

#### Ease of Operation and Maintenance

- Convenient control via remote controller or centralized control
- Immediate diagnosis via mobile LGMV
- Accurate diagnosis via black box function



## SEER / SCOP

LG's advanced technologies achieve world-class energy efficiency.



### SEER / SCOP class

kW	2.5	3.4	5.0	6.8	8.0	9.5	Average
SEER	7.0	6.8	7.6	8.5	7.8	7.6	7.6
	A++	A++	A++	A+++	A++	A++	A++
SCOP	4.0	4.0	4.4	4.8	4.8	4.5	4.4
	A+	A+	A+	A++	A++	A+	A+

※ These values are based in the H-Inverter Ceiling Cassette model and can change based on the applied combination.

### European Energy Labeling

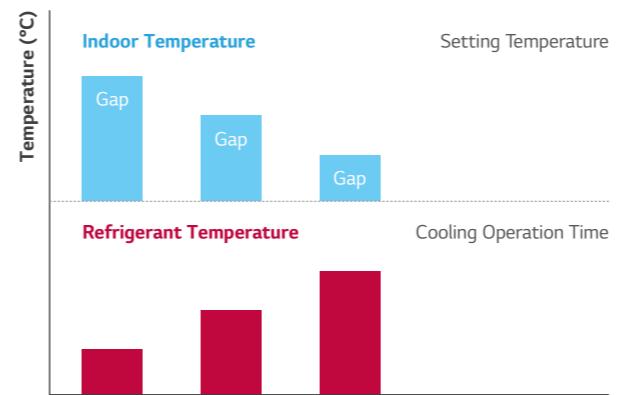
	SEER	SCOP
A+++	SEER $\geq$ 8.5	SCOP 5.1
A++	6.1 $\leq$ SEER < 8.5	4.6 $\leq$ SCOP < 5.1
A+	5.6 $\leq$ SEER < 6.1	4.0 $\leq$ SCOP < 4.6
A	5.1 $\leq$ SEER < 5.6	3.4 $\leq$ SCOP < 4.0
B	4.6 $\leq$ SEER < 5.1	3.1 $\leq$ SCOP < 3.4
C	4.1 $\leq$ SEER < 4.6	2.8 $\leq$ SCOP < 3.1
D	3.6 $\leq$ SEER < 4.1	2.5 $\leq$ SCOP 2.8

※ Based on Ceiling Cassette (6.8 kW)

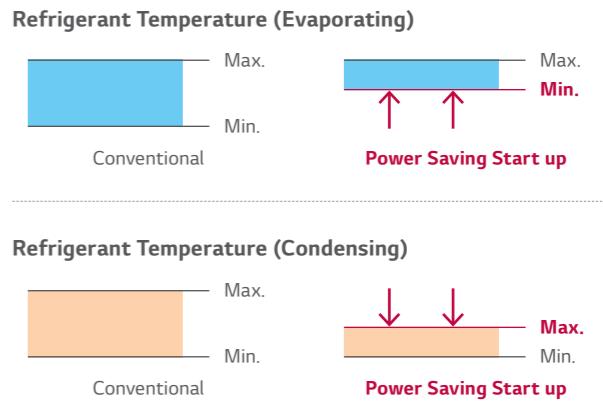
## Energy Savings

LG commercial air conditioners will automatically alter the temperature of discharge air by controlling their refrigerant temperature based on the difference between the indoor temperature and the target indoor temperature. During cooling operation, evaporating temperature will increase if the temperature difference reduces. This allows for enhanced comfort and reduced energy consumption.

### Comfortable Indoor Air

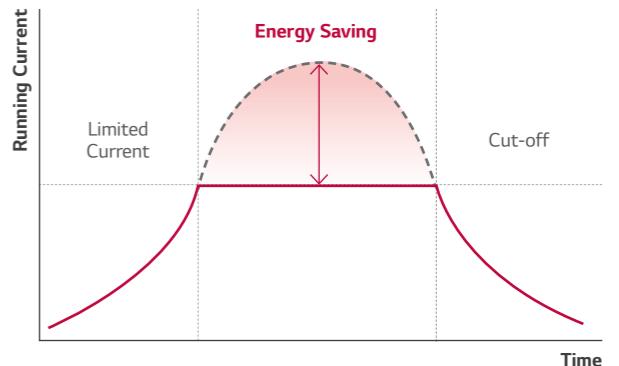


### Energy Saving



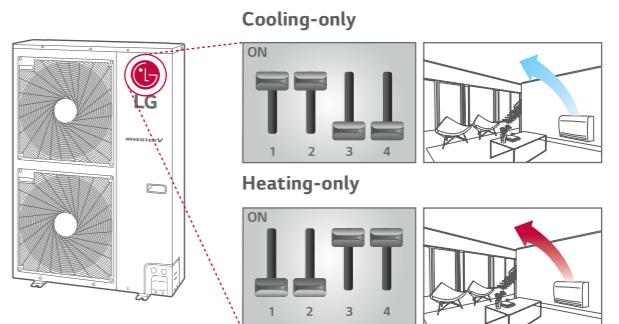
## Peak Current Control

The peak current control function prevents the air conditioner from running at the maximum level while maintaining current system settings, in order to reduce energy consumption. This function helps minimize energy costs during the peak periods of energy use when the energy billing is much higher.



## Mode Lock

Set the operation mode to either cooling-only or heating-only; either by adjusting the wired remote controller or setting the DIP switch to avoid combined use of cooling and heating. (Some models need wired remote controller for mode lock function according to feature overview table)



# COMFORTABLE ENVIRONMENT

## COMFORTABLE ENVIRONMENT

### Comfort with Temperature & Humidity Sensors

With Dual Sensing Control, air conditioners can rapidly achieve a comfortable indoor environment for customers.



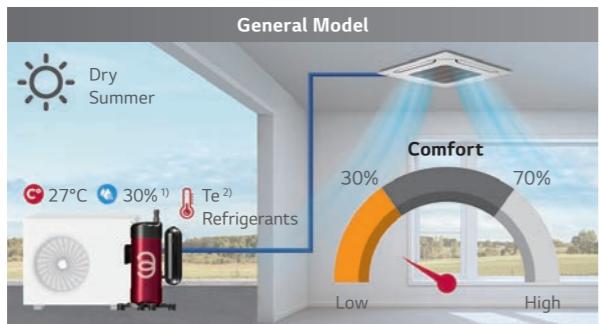
By sensing both temperature and humidity, this feature helps avoid over-cooling and dehumidification, maximizing comfort



※ Comfort cooling apply to Ceiling Cassette, Ceiling Suspended, Console  
- It does not apply to small capacity cassette models.  
(UT09FH, UT12FH, CT09F, CT12F, CT18F)

#### Dry Summer

During a dry summer season, the system senses the low humidity levels and decreases the operating ratio to increase humidity for a more comfortable environment and energy efficient operation.



- Uncomfortable Environment

Excessive latent heat elimination regardless of humidity

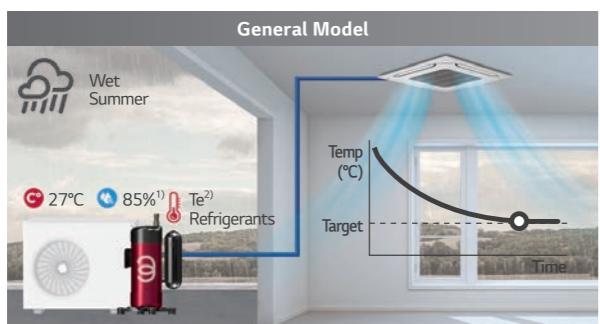
- Waste Energy

Eliminate latent heat unnecessarily

※ Humidity Condition : Low (< 30%), Standard (30~70%)  
1) Indoor Condition 2) Evaporation Temperature

#### Wet Summer

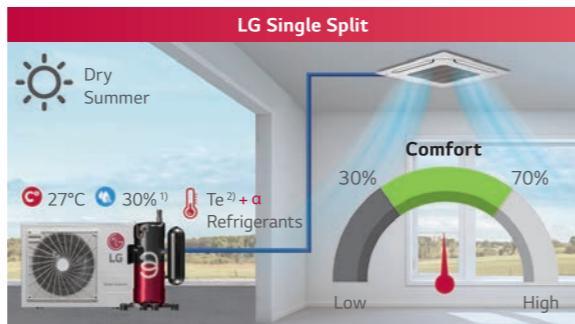
During a wet summer season, the system senses the high humidity levels and increases the operating ratio to rapidly decrease humidity for a more comfortable indoor environment.



- Uncomfortable Environment

General latent heat elimination regardless of humidity

1) Indoor Condition 2) Evaporation Temperature

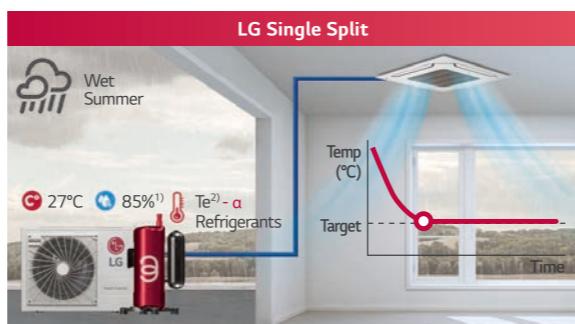


- Comfortable Environment

By making the room less dry

- Increased Energy Efficiency

Provide optimized cooling and save energy considering humidity



- Comfortable Environment

Quick latent heat elimination with humidity sensors

### Night Silent Operation

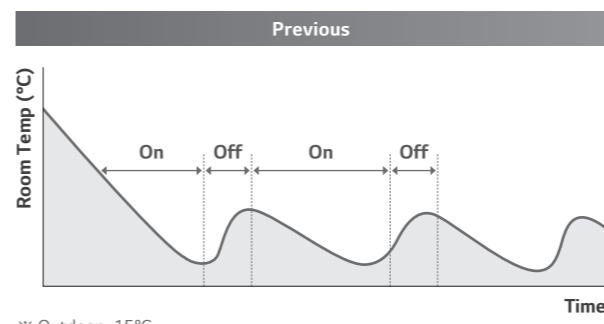
Night Silent Operation can reduce noise levels at night time by simply setting the dip switch on the PCB of the outdoor unit.



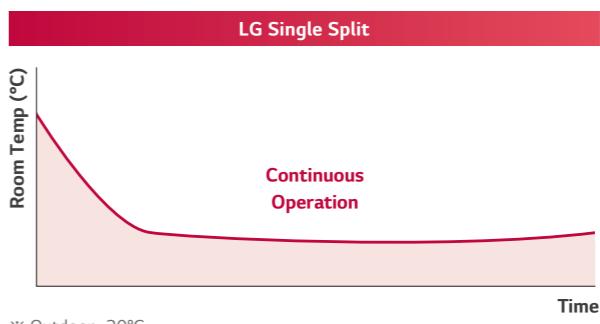
\* The value is based on 14.6kW model.

### Continuous Cooling Operation

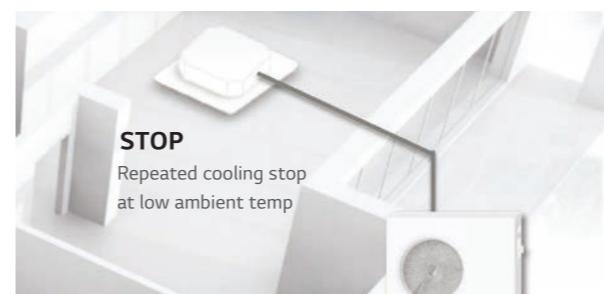
LG Single Split is able to perform continuous cooling at low ambient temperature. (as low as -15°C)



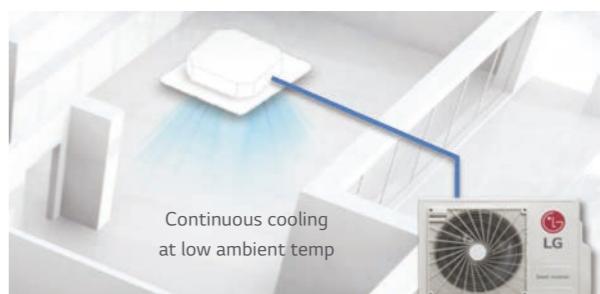
※ Outdoor -15°C



※ Outdoor -20°C



※ Based on a stand 36k model. (before 2019)

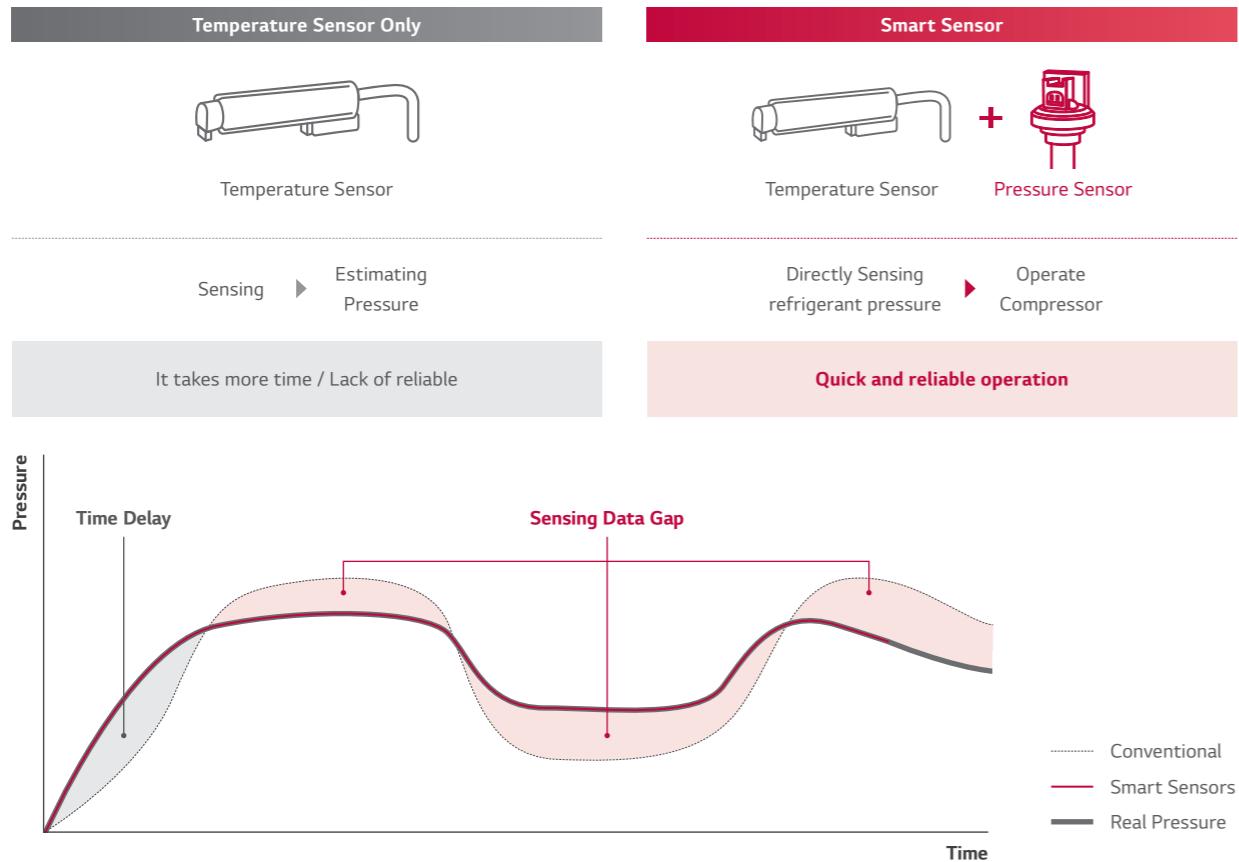


※ Based on a stand 36k model. (after 2019)

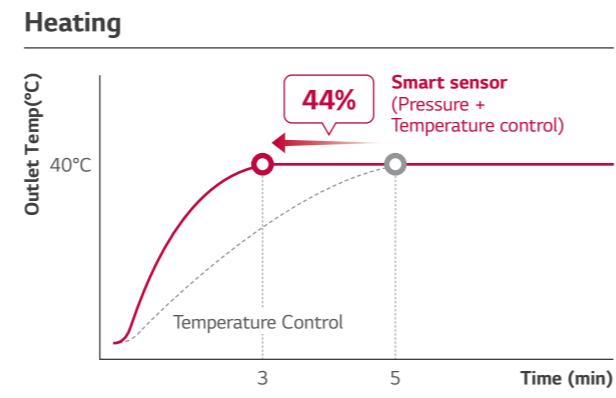
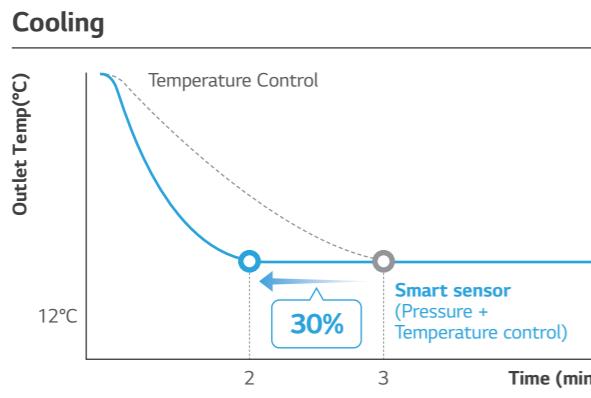
## Quick & Reliable Operation

Through pressure and temperature sensing, the desired indoor temperature can be reached more rapidly.

- Quick response due to sensing with ready for operation.
- Target performance point is reached while avoiding compressor damage from liquid compression or oil shortage.

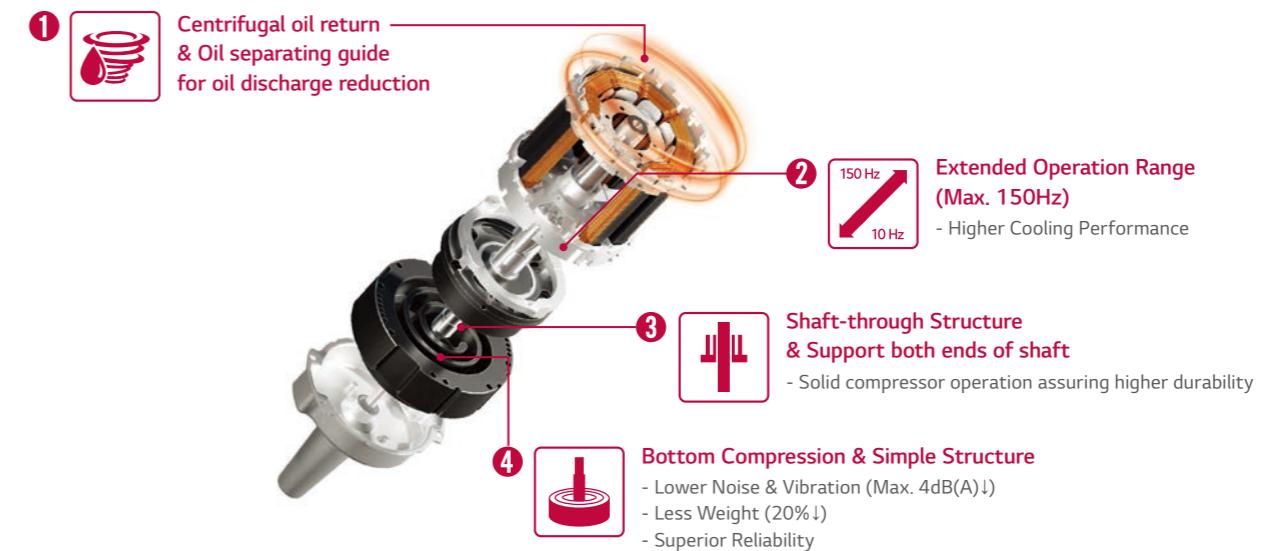


- With pressure sensing, the desired temperature is achieved in 30% less time in cooling and 44% in heating.



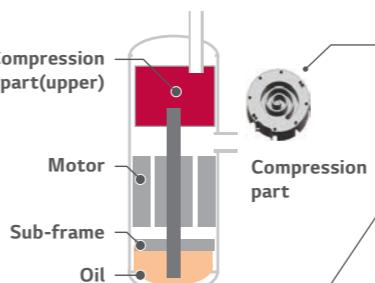
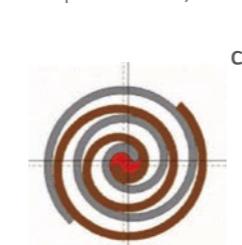
## R1 Compressor™

R1 Compressor is one that combines high-efficiency, low sound characteristics of the scroll and the simple compressing structure of the rotary compressor. This technology enables a highly efficient compact model.



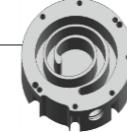
### Conventional Compressor

**Scroll**  
High efficiency / Low sound (Continuous compression, but complex structure)



### R1 Compressor™

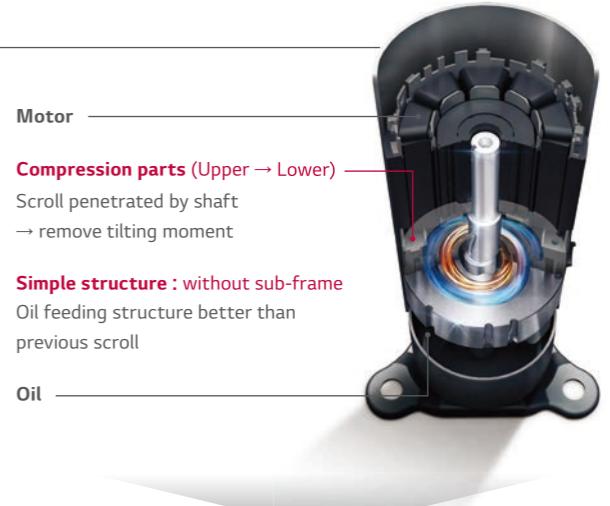
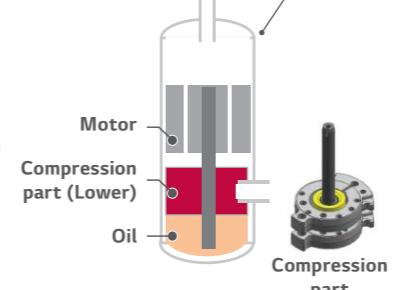
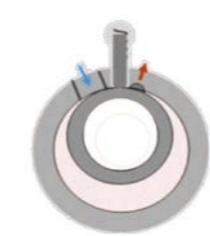
**Revolutionary Scroll**  
High efficiency / Stable & Simple Structure



Hybrid Scroll Shape (LG patent)\*

\* Patent registration number  
(S.Korea : 10-1059880, USA : RE46106)

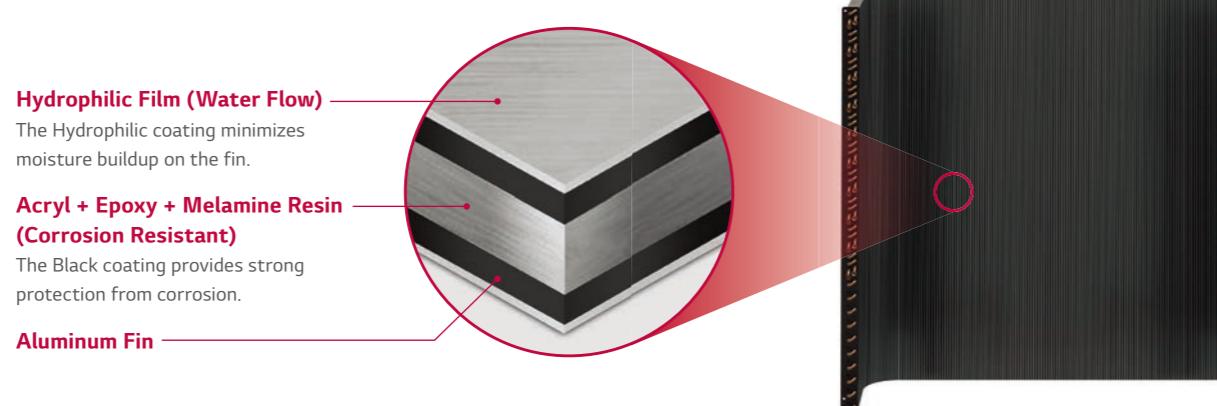
Rotary : Simple structure (Compression per 1 rotation)



## Corrosion Resistance Black Fin

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution including fumes from factories.

### Longer Lifespan, Lower Maintenance Costs



※ Product is not fully treated for anti-corrosion.  
To install near the sea, additional treatment must be required.

### SST (Salt Spray Test)

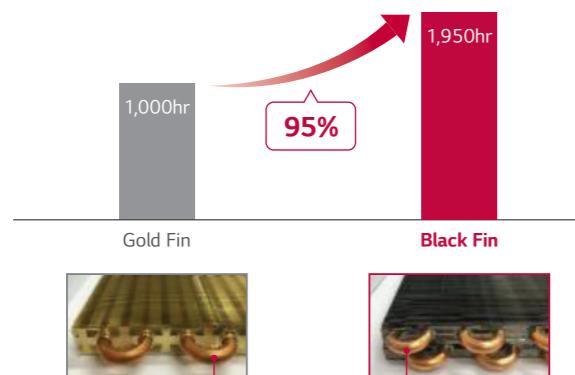
#### Test Process



X Process Repeated

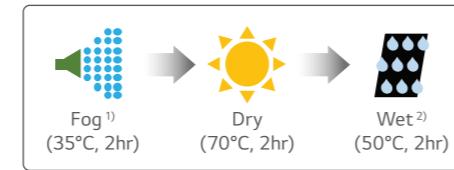
Test process is conducted according to ISO 9227.  
1) Salty water concentration : NaCl aqueous solution (5%)

### Test Result (5% Area of defects compared to initial)



### CCT (Cyclic Corrosion Test)

#### Test Process

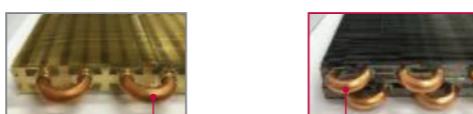
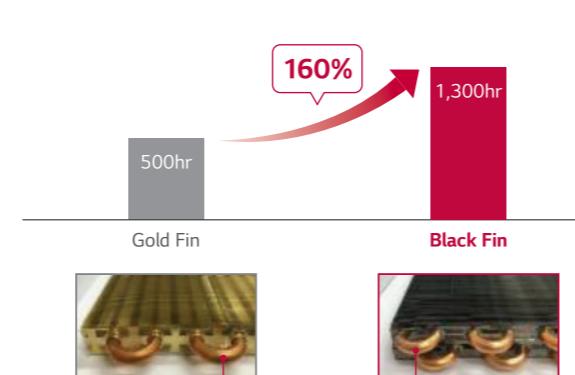


X Process Repeated

Test process is conducted according to ISO 14933.

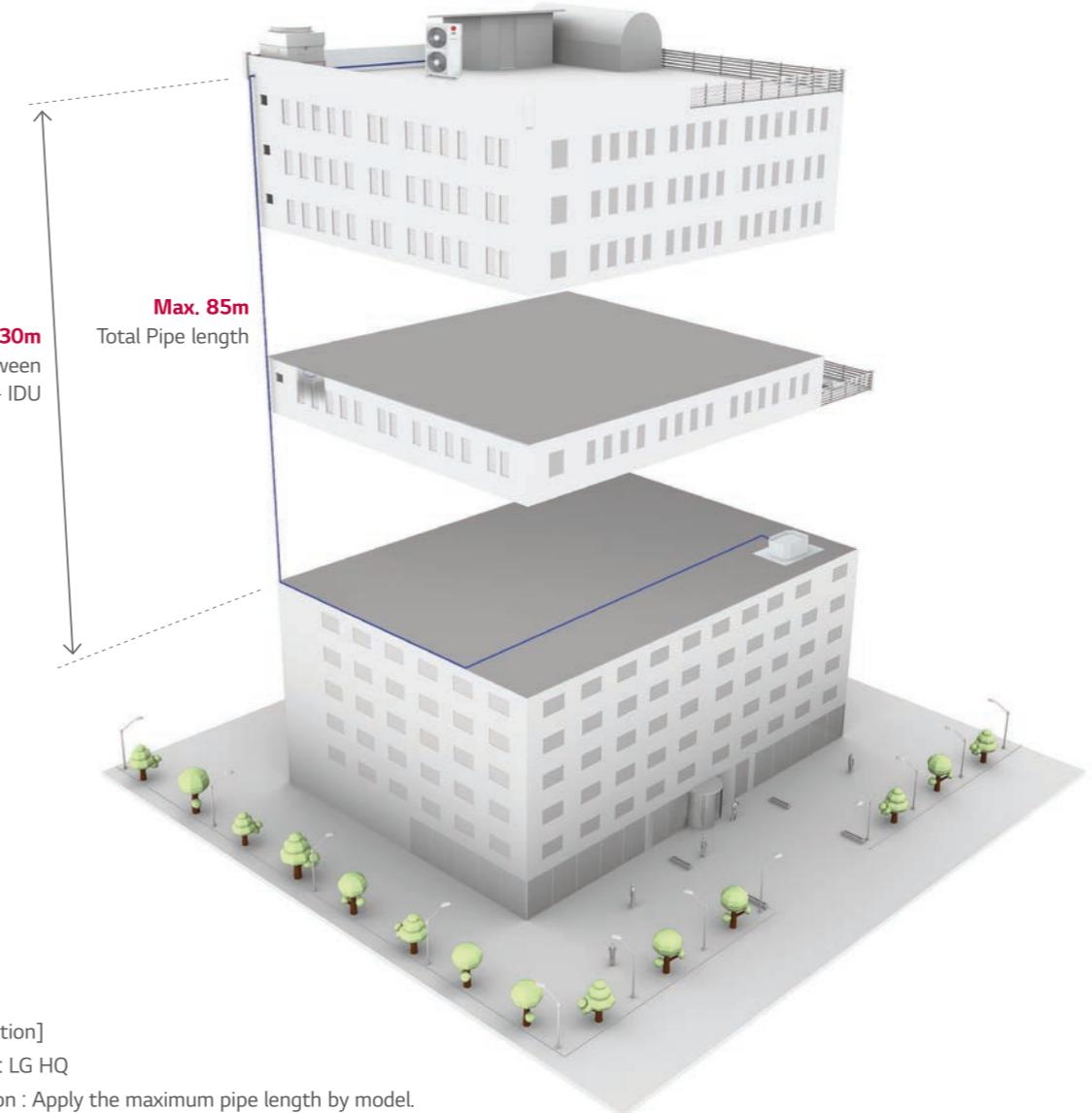
1) Salty water concentration : NaCl aqueous solution (5%)  
※ Dry condition changed : 60°C, 4hr → 70°C, 2hr  
2) Deionized water

### Test Result (5% Area of defects compared to initial)



## Long Pipe Installation

Maximum pipe length up to 85m and elevation length up to 30m provides flexibility for various conditions and easy installation.



#### [Test condition]

- Location : LG HQ
- Installation : Apply the maximum pipe length by model.
- Period : 3 month (Checking oil level in real time)
- No use U-Trap

Model name	UUA1	UUB1	UUC1	UUD1 / UUD3
Maximum pipe length	20 m	30 / 35* m	50 m	85 m
Maximum Height Difference (ODU-IDU)	15 m	30 m	30 m	30 m

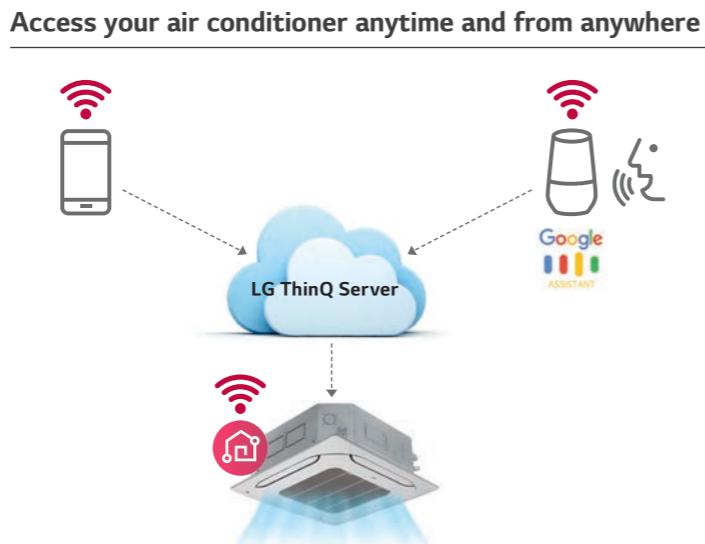
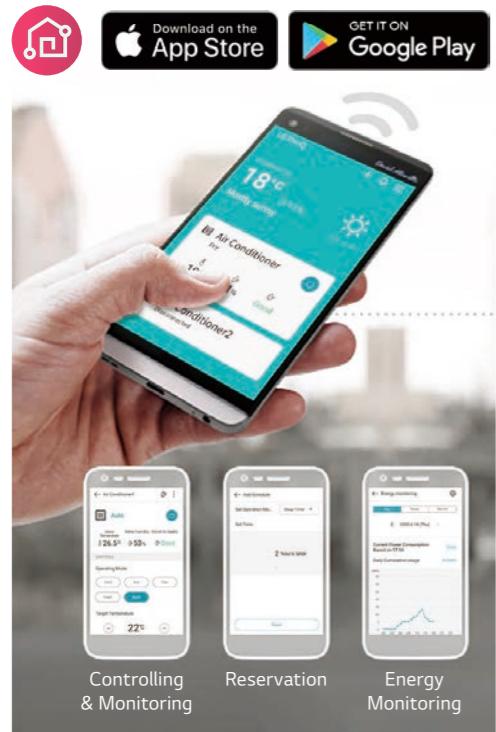
\* Compact 6.8 / 8.0kW

# CONVENIENT CONTROL SYSTEM

## LG ThinQ™

**CONVENIENT CONTROL SYSTEM**

Users can control air conditioners using Android or iOS-enabled smartphones and voice commands via Google assistant and Amazon's Alexa.



### Simple operation for various functions

- Air Purify\*
- On / Off\*
- Mode Selection\*
- Current temperature\*
- Set temperature\*
- Set fan speed\*
- Vane Control

\* Search "LG ThinQ" on Google or Apple store then download the app.  
\* Wi-Fi modem (PWFMD200) is required by option.

\* This functions are used by google assistant  
\* In some countries, the use of the google assistant system may be restricted.  
- Launched country : Germany, UK, Ireland, Austria, Switzerland, France, Spain, Italy, Russia, Norway, Netherlands, Portugal, Turkey, Sweden, Denmark

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

Indoor unit can be controlled by external devices without dry contact, so customers can save cost of installation.  
Connection between an indoor unit and external devices directly

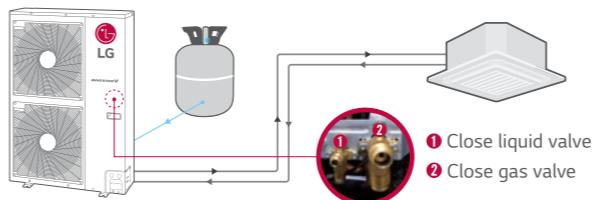


※ In case of needing more functions beside on / off control, a dry contact is required to be installed.

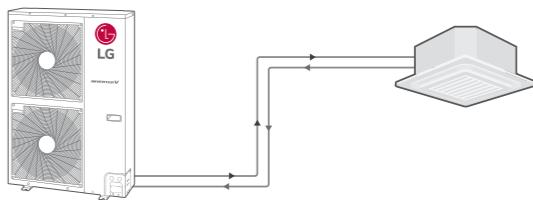
## Forced Cooling Operation

This function allows the refrigerant to be recharged or pumped down, regardless of the indoor temperature. Note that this function can be used when indoor units are being moved or repaired.

### Recharging

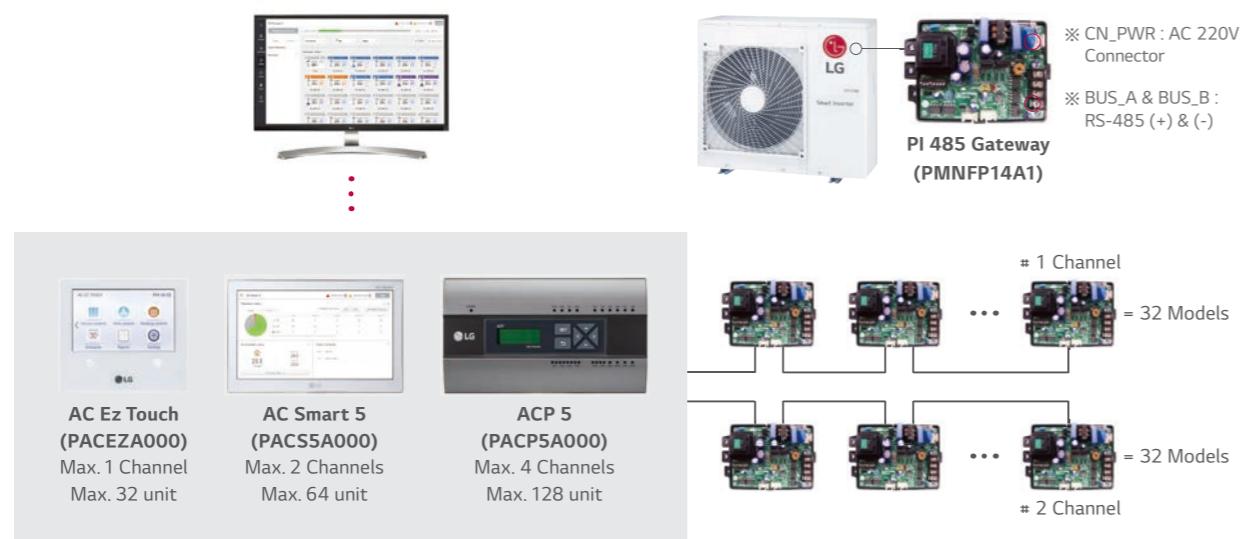


### Pump Down



## Easy Control (Central Controller)

PI-485 is a gateway device that provides communication between LG Outdoor Units and LG central controllers such as ACP, AC Smart.



## Mobile LGMV

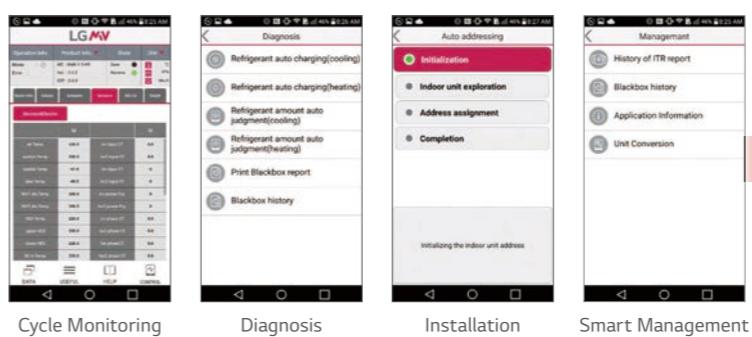
LGMV(Monitoring View) helps engineers to inspect and monitor air conditioning unit easily.



Error Indicator	
Contents	
01	Air temperature sensor of indoor unit
02	Inlet pipe temperature sensor of indoor unit
03	Communication error : Wired Remote Controller ↔ Indoor Unit
...	

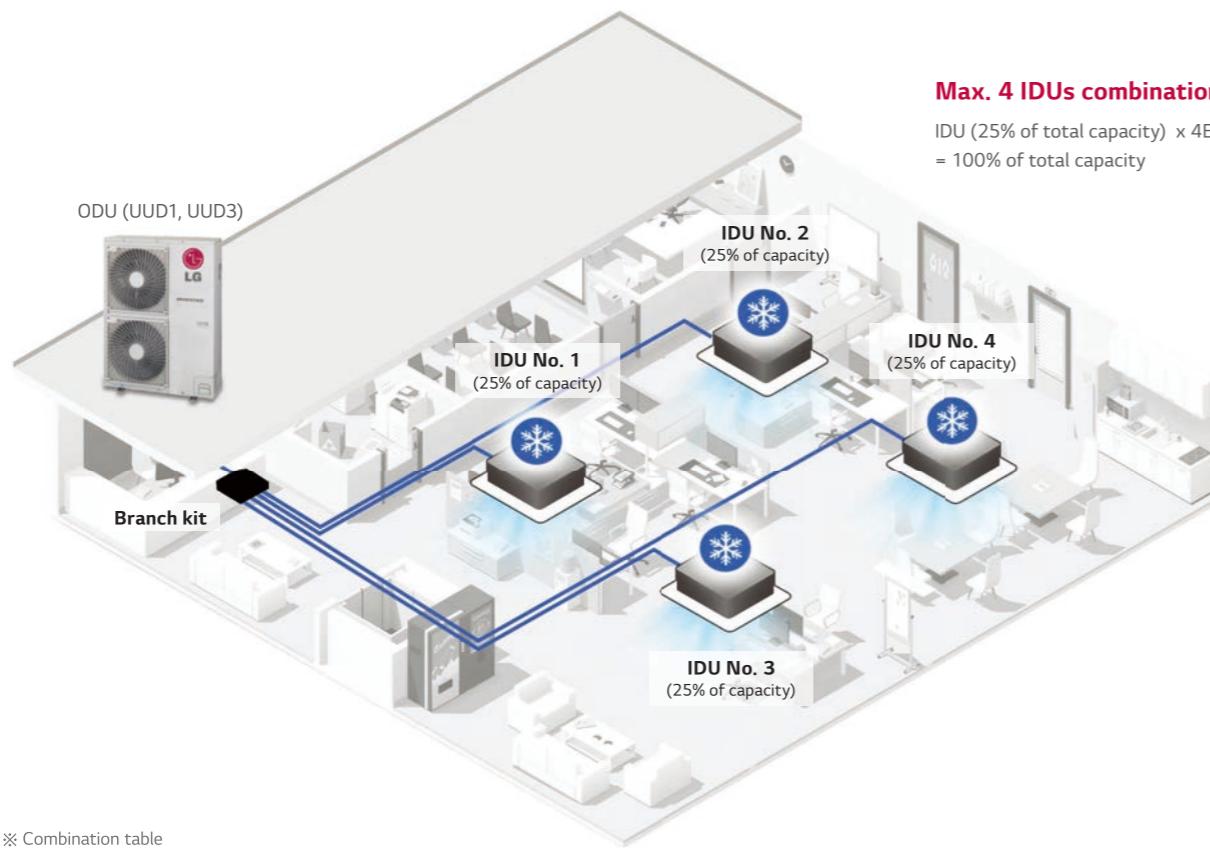
A technician not only can check the cycle information with diagrams & graph, but also check easily the error status (Troubleshooting guide) and take action immediately.

※ Search "Mobile LGMV" on Google or Apple store then download the app.  
※ Wi-Fi modem (PWFMD200) is required by option.



## Synchro function

Maximum 4 indoor units can be combined by using a branch kit and setting dip switch for one outdoor unit. It can be easily applied to various sites.



Model	Duo		Trio		Quartet	
	Cassette	Duct	Cassette	Duct	Cassette	duct
UUD1, UUD3	CT18F x 2EA	CM18F x 2EA	CT12F x 3EA	CL12F x 3EA	CT12F x 4EA	CL12F x 4EA
	CT24F x 2EA	CM24F x 2EA	CT18F x 3EA	CM18F x 3EA	-	-
	UT30F x 2EA	UM30F x 2EA	-	-	-	-
Branch kit	PMUB11A		PMUB111A		PMUB1111A	
Dip switch						

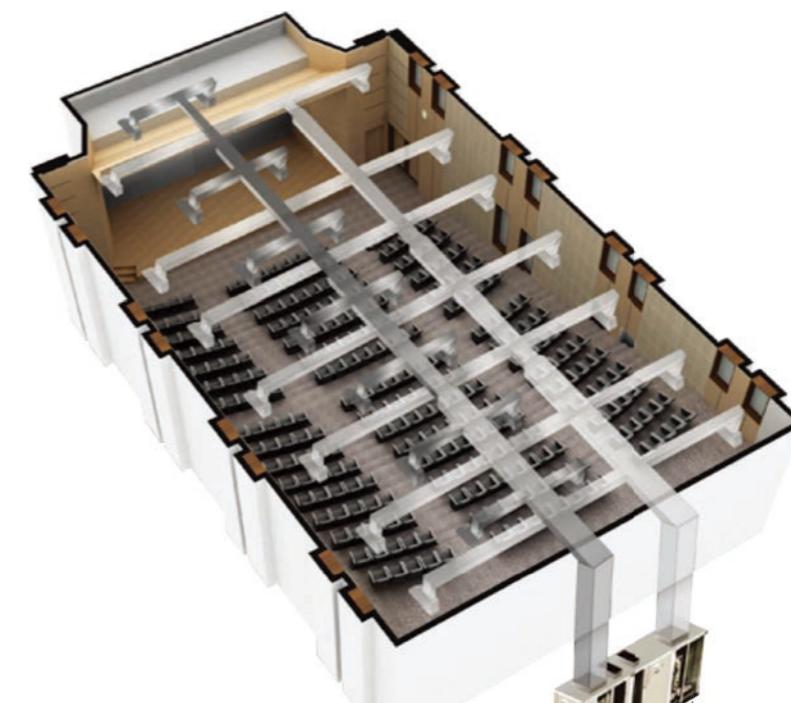
## Note

- Possible indoor units : Single CAC indoor unit series
  - Dry contact & Zone control & Auto changeover is not available which is connected with synchro.
  - When using synchro operation
    - Do not use wireless remote controller.
    - Use only one wired remote controller in the indoor units.
    - Some Central controllers and some functions of central controller can not be available with synchro operation.
- Branch kits are required for operating Synchro models.

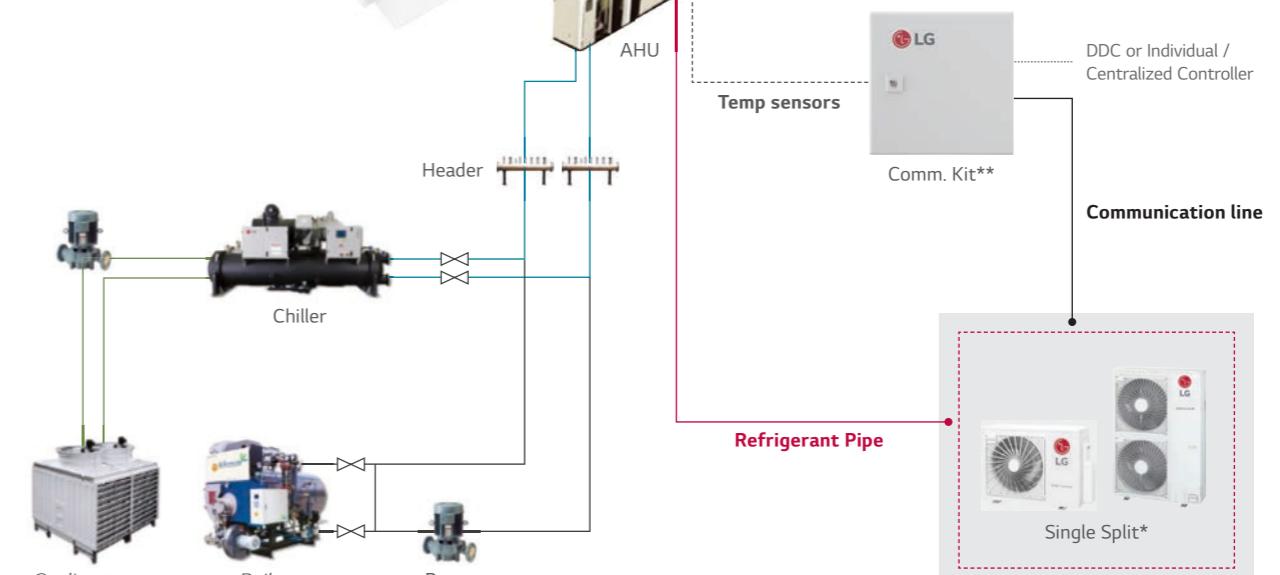
## Connection with AHU

Single split can be connected to AHU using communication kit.

COMPLICATED SIMPLE



Simple and space saving  
Easy installation  
Low maintenance cost

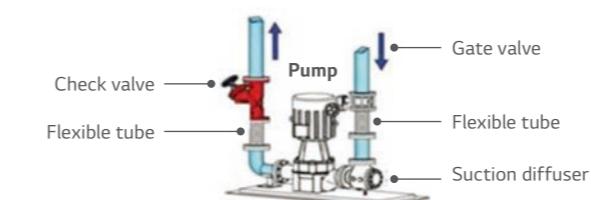


\* The single model can be applied only to UUB1, UUC1, UUD1, UUD3

\*\* Model name of communication kit
 

- RA air temperature control : PAHCMR000
- SA air temperature control : PAHCMS000

## Complicated piping work



# CEILING MOUNTED CASSETTE



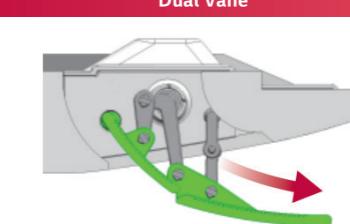
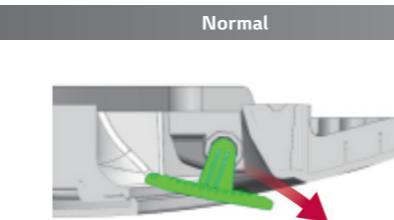
## **4 Way air flow with new dual vane design**

Innovative dual vane designs each of the best airflow over various spaces

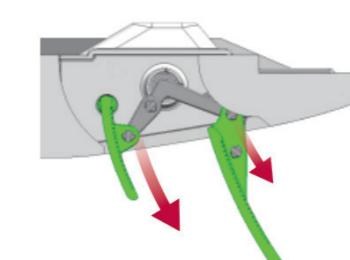
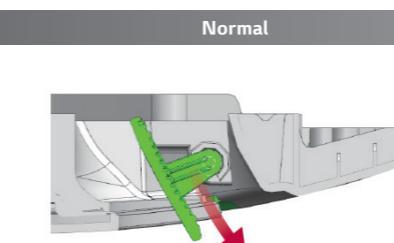


## New types of wind solutions

## Indirect Win



Direct Wires



## 6 Air flow modes



## Power M

### Fast and



**Up / Down Swirl**  
Fresh and Natural



## Smart Mode



**Indirect W**



**Direct Wind**  
Suitable  
for High Ceiling

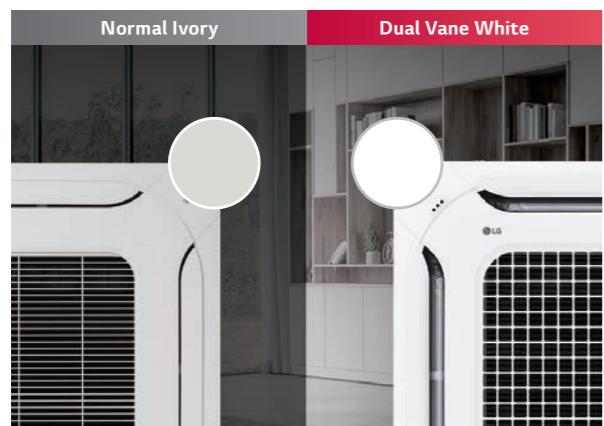


## Refresh Mode

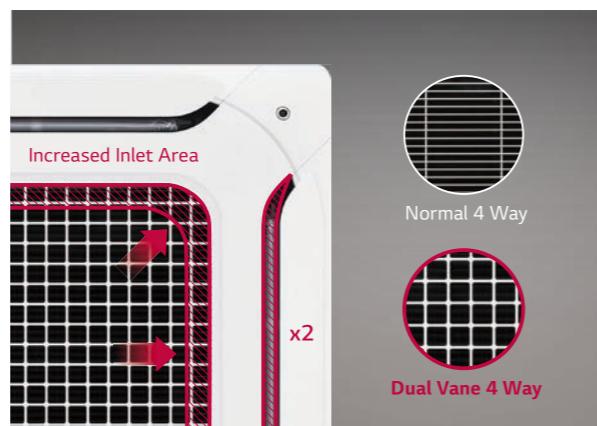
## NEW DESIGN

**Brighter Color**

Color enhancement allows cassette to blend in to most interior ceiling spaces.

**Wide Design**

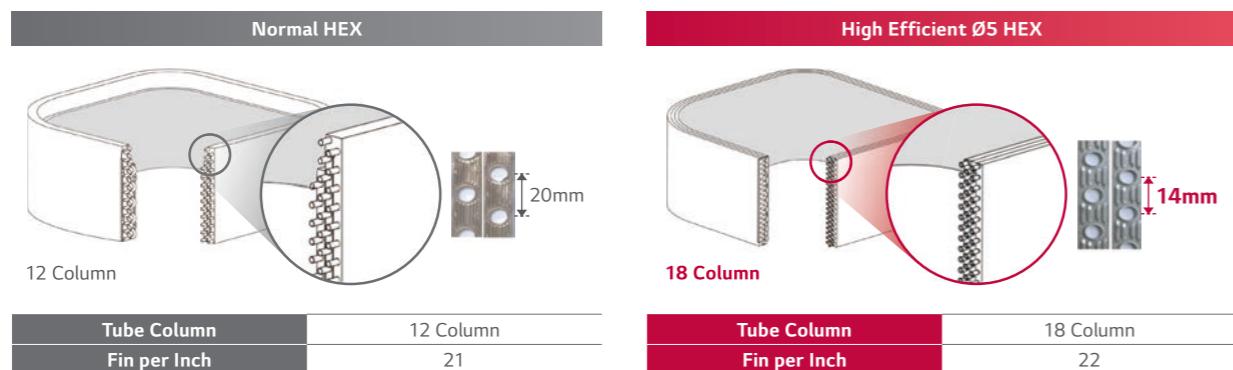
Bigger inlet and outlet make faster cooling / heating airflow.

**Full 3D Turbo Fan**

Full 3D Turbo fan decreases air resistance, so it creates high efficiency and reduces noise level.

**High Efficiency Heat Exchanger (HEX)**

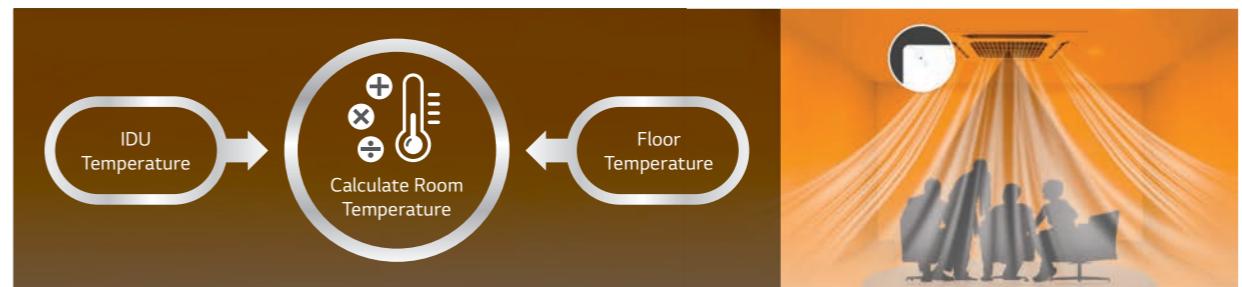
Highly integrated heat exchanger is applied to increase cooling and heating efficiency.



※ This specification can be different as per each model.

**Sensor reads temperature from ceiling to floor for heating**

IDU provides the human oriented room temperature with sensing floor And calculating by floor and ceiling temperature by thermopile sensor.



※ Available only for products with floor temperature sensor.

**Human detecting Direct / Indirect airflow**

Human sensing function finds users to provide their favorite airflow.

**Comfort Indirect**

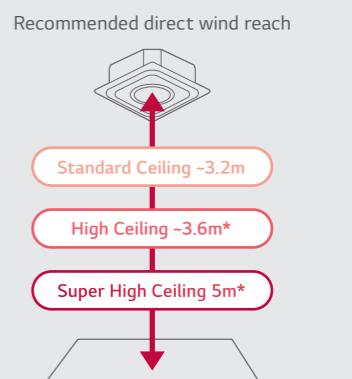
Prevent airflow to heading to user by sensing.

**Follow user Direct**

Prefer air flow to heading to user by sensing.

**Direct Wind**

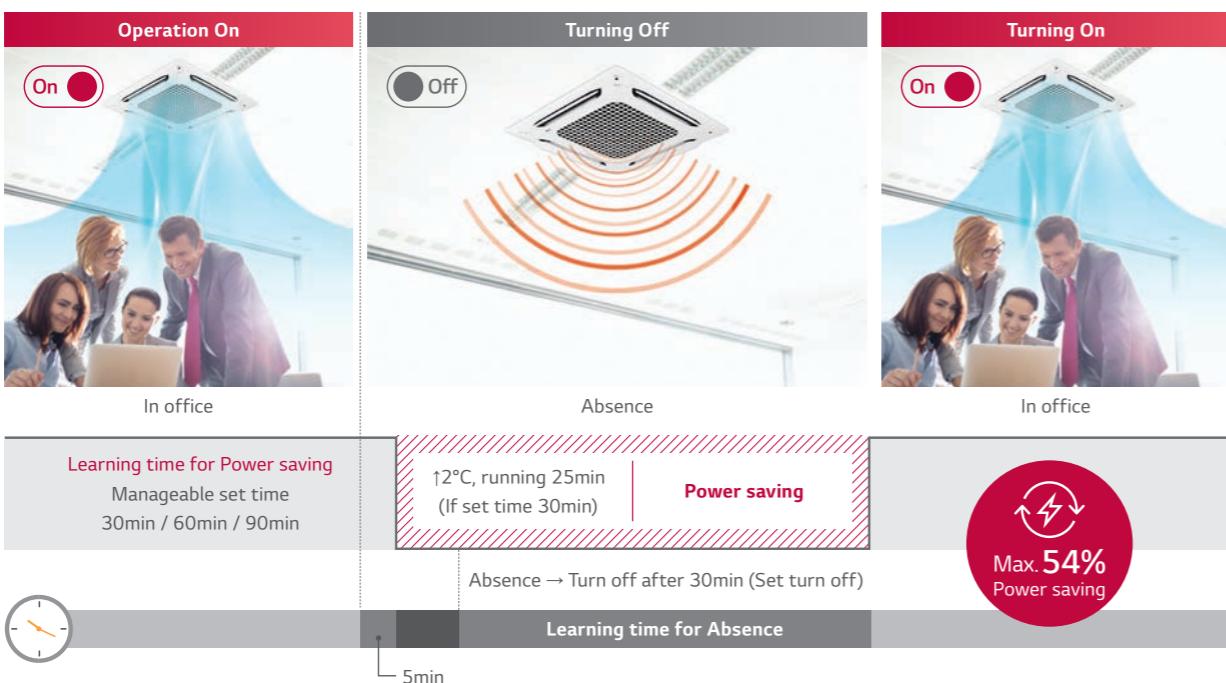
Warm wind can reach up to 5m with plenty air volume. (@ 0.5ms)



\* Settings are required in installer mode.

## Human detecting On / Off Learning operation system

IDU senses people to switch On / Off for Max. 54% power saving.



※ Smart Dual Vane Indoor Unit '19 Line up.

※ Data Based on actual test of LG, single product 2 hours measurement result. (Cooling 26 °C, strong wind)

## Various Display of Air Purification

Installed Wi-Fi leads unlimited boundary to control IDU and display Air Purification status.

### Smart indicator

Shows quality of Indoor air in real time



### Remote controller

Display Air status and Fine Dust Concentration



### Mobile

Whenever & Wherever  
Check and Control Air status



## Pairing LG ThinQ

Anywhere! Anytime! Can connect to IDU with LG ThinQ

① Monitoring Air status : Easy to check indoor air status  
• Microfine dust / Ultra fine dust / Fine dust  
• Day / Week / Month / Yearly

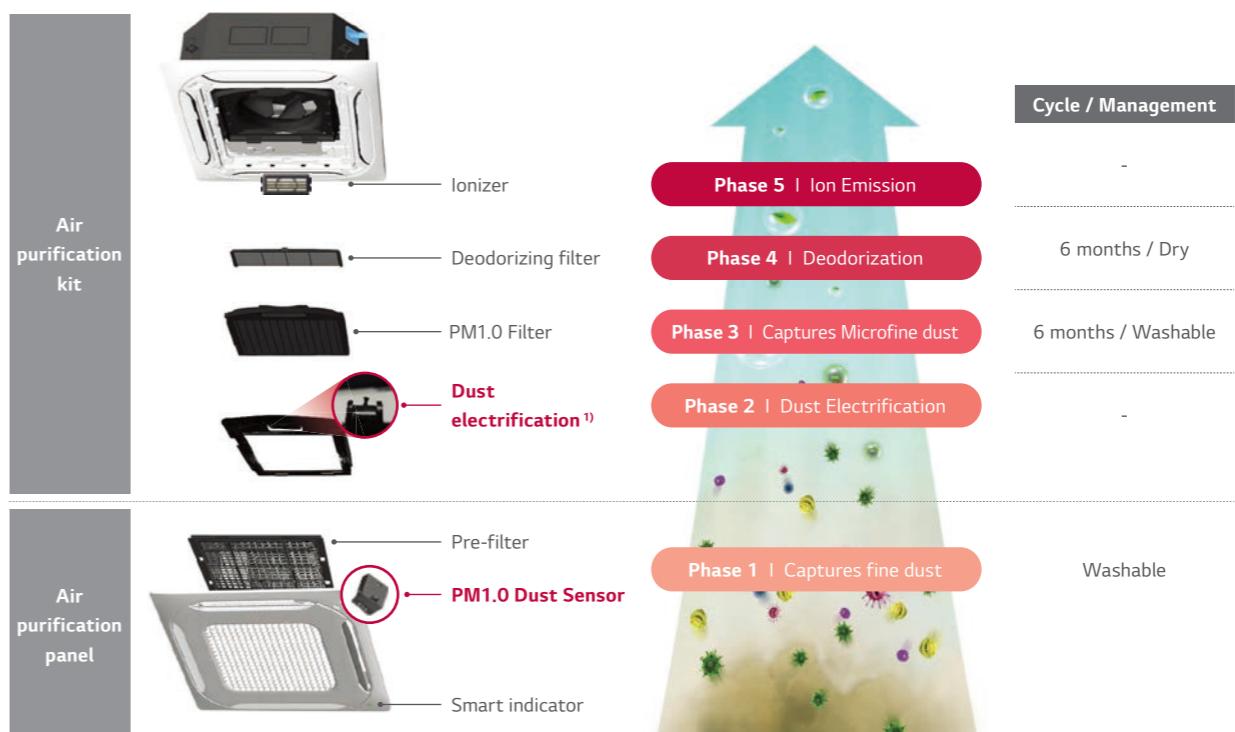
② Mobile Remote Control : Remote control by using mobile phone  
• Control Mode / Temperature / Air flow etc.

③ Display Power Consumption : Check power consumption of A/C  
• Check energy display  
• Set target energy consumption level



## Convenient and Powerful Air purification

Easy to manage air purifying system with one-touch air cleaning filter.



1) Electrical diffusion makes dust electrification.

### CAC certification?

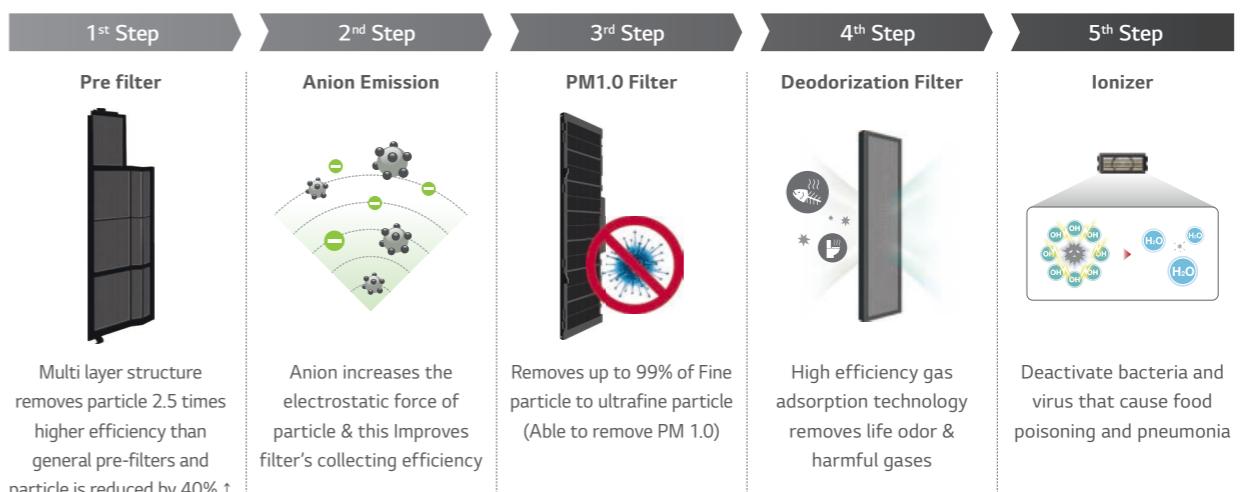
The Korea Air Cleaning Association strictly tests the air cleaning function of air conditioner products and provide certification to the product that give credibility to consumers.



The Korea Air Cleaning Association

## Air Purification Technology

5-Steps air cleaning process removes invisible, ultra fine dust, odor and germs to ensure a clean and healthy living environment



## CEILING MOUNTED CASSETTE

## H-INVERTER (R32)

UT09FH / UT12FH / UT18FH



LG participates in the ECP programme for EUROVENT AC program.  
Check ongoing validity of certification  
: [www.eurovent-certification.com](http://www.eurovent-certification.com)

UUA1 ULO UUB1 U20



## H-INVERTER (R32)

UT24FH / UT30FH



LG participates in the ECP programme for EUROVENT AC program.  
Check ongoing validity of certification  
: [www.eurovent-certification.com](http://www.eurovent-certification.com)

UUC1 U40



COMBINATION	9	12	18	
Capacity	Cooling Min. / Rated / Max. kW	1.6 / 2.5 / 4.0	1.6 / 3.4 / 4.8	2.0 / 5.0 / 6.0
	Heating Min. / Rated / Max. kW	1.7 / 3.2 / 4.5	1.7 / 4.1 / 5.8	2.3 / 5.8 / 7.0
Power Input (Set)	Cooling Min. / Rated / Max. kW	0.32 / 0.61 / 0.98	0.32 / 0.97 / 1.78	0.30 / 1.25 / 1.69
	Heating Min. / Rated / Max. kW	0.32 / 0.75 / 1.06	0.32 / 1.03 / 1.87	0.30 / 1.47 / 1.98
Running Current	Cooling Rated A	2.7	4.3	7.2
	Heating Rated A	3.3	4.6	7.7
EER / COP	kWh/kWh	4.10 / 4.30	3.50 / 4.00	4.00 / 3.95
SEER / SCOP	kWh/kWh	7.0 / 4.0	6.8 / 4.0	7.6 / 4.4
Pdesign	Cooling @ 35°C kW	2.5	3.4	5.0
	Heating @ -10°C kW	2.8	2.8	4.1
Seasonal Energy Label	Cooling / Heating A++ / A+	A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating kWh	125 / 980	175 / 980	230 / 1,305
Dehumidification Rate	I/h	0.1	0.8	1.9
ODU Sound Pressure Level	Cooling / Heating Rated dB(A)	49 / 52	49 / 52	47 / 52
ODU Sound Power Level	Cooling Rated dB(A)	65	65	63
	Liquid mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
Piping Connections	Gas mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Connections Method Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling Min. / Max. °C	-15 / 50	-15 / 50	-15 / 50
	Heating Min. / Max. °C	-20 / 18	-20 / 18	-20 / 18
INDOOR	UT09FH NQ0	UT12FH NQ0	UT18FH NBO	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L W	30 / 26 / 22	30 / 26 / 22	33 / 26 / 22
Air Flow Rate	H / M / L m³/min	11.0 / 10.0 / 9.3	11.0 / 10.0 / 9.3	17.0 / 15.5 / 14.0
Dimensions	Body W x H x D mm	570 x 256 x 570	570 x 256 x 570	840 x 204 x 840
Weight	Body kg	13.9	13.9	21.1
Sound Pressure Level	Cooling H / M / L dB(A)	41 / 39 / 37	41 / 39 / 37	37 / 36 / 34
Sound Power Level	Cooling Max. dB(A)	54	54	52
Piping Connections	Drain O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
	Model Name PT-QAGW0	PT-QAGW0	PT-AFGW0	
Recommended Decoration Panel*	Color White	White	White	
	Dimensions Body mm	620 x 34 x 620	620 x 34 x 620	950 x 35 x 950
	Weight Body kg	3.0	3.0	7.5
OUTDOOR	UUA1 ULO	UUB1 U20		
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker	Min. A	15	20	
Power Supply Cable (Included Earth)	No x mm³	3C x 1.5	3C x 2.5	
Dimensions	Net W x H x D mm	770 x 545 x 288	870 x 650 x 330	
Weight	Net kg	33.3	44.5	
Compressor	Type Twin Rotary	Twin Rotary		
	Type R32	R32		
	GWP (Global Warming Potential) 675	675		
Refrigerant	Precharged Amount kg	1.0	1.2	
	t-CO₂eq 0.675	0.675	0.81	
	Additional Charge (After 7.5m) g/m	20	20	
Fan	Air Flow Rate Rated m³/min x No.	28 x 1	50 x 1	
Total Piping Length	Min. / Max. m	5 / 30	5 / 30	
Piping Elevation	IDU - ODU Max. m	30	30	

\* Decoration panel can be selected as an optional accessory.

Note :

1. Due to our policy of innovation some specifications may be changed without notification.
2. Performances are based on the following conditions (It is accordance with EN14511)
  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R32)

## H-INVERTER (R32)

UT24FH / UT30FH



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: [www.eurovent-certification.com](http://www.eurovent-certification.com)

COMBINATION	24	30	
Capacity	Cooling Min. / Rated / Max. kW	2.7 / 6.8 / 8.3	3.2 / 8.0 / 9.5
	Heating Min. / Rated / Max. kW	3.2 / 7.9 / 9.9	3.6 / 9.0 / 10.7
Power Input (Set)	Cooling Min. / Rated / Max. kW	0.30 / 1.66 / 2.31	0.40 / 2.12 / 2.82
	Heating Min. / Rated / Max. kW	0.40 / 1.76 / 2.53	0.40 / 2.14 / 2.93
Running Current	Cooling Rated A	7.4	9.4
	Heating Rated A	7.8	9.5
EER / COP	kWh/kWh	4.10 / 4.48	3.77 / 4.20
SEER / SCOP	kWh/kWh	8.5 / 4.8	7.8 / 4.8
Pdesign	Cooling @ 35°C kW	6.8	8
	Heating @ -10°C kW	5.5	5.5
Seasonal Energy Label	Cooling / Heating -	A+++ / A++	A++ / A++
Annual Energy Consumption	Cooling / Heating kWh	280 / 1,604	359 / 1,604
Dehumidification Rate	I/h	1.7	2.7
ODU Sound Pressure Level	Cooling / Heating Rated dB(A)	48 / 52	50 / 52
ODU Sound Power Level	Cooling Rated dB(A)	65	68
	Liquid mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method Flared	Flared	Flared
Operation Range (Outdoor)	Cooling Min. / Max. °C	-20 / 50	-20 / 50
	Heating Min. / Max. °C	-20 / 18	-20 / 18
INDOOR	UT24FH NAO	UT30FH NAO	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L W	43 / 35 / 28	43 / 35 / 28
Air Flow Rate	H / M / L m³/min	23.8 / 21.4 / 19.0	23.8 / 21.4 / 19.0
Dimensions	Body W x H x D mm	840 x 288 x 840	840 x 288 x 840
Weight	Body kg	25.3	25.3
Sound Pressure Level	Cooling H / M / L dB(A)	42 / 41 / 40	42 / 41 / 40
Sound Power Level	Cooling Max. dB(A)	56	56
Piping Connections	Drain O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0
	Model Name PT-AFGW0	PT-AFGW0	
Recommended Decoration Panel*	Color White	White	
	Dimensions Body mm	950 x 35 x 950	950 x 35 x 950
	Weight Body kg	7.5	7.5
OUTDOOR	UUC1 U40		
Power Supply	Ø / V / Hz	1 / 220-240 / 50	
Circuit Breaker	Min. A	25	
Power Supply Cable (Included Earth)	No x mm³	3C x 2.5	
Dimensions	Net W x H x D mm	950 x 834 x 330	
Weight	Net kg	57.7	
Compressor	Type Twin Rotary		
	Type R32		
	GWP (Global Warming Potential) 675		
Refrigerant	Precharged Amount kg	1.9	
	t-CO₂eq -		1.283
	Additional Charge (After 7.5m) g/m	40	
Fan	Air Flow Rate Rated m³/min x No.	58 x 1	
Total Piping Length	Min. / Max. m	5 / 50	
Piping Elevation	IDU - ODU Max. m	30	

\* Decoration panel can be selected as an optional accessory.

Note :

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  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R32)

## CEILING MOUNTED CASSETTE

# CEILING MOUNTED CASSETTE

COMMERCIAL SINGLE SPLIT

## CEILING MOUNTED CASSETTE

### H-INVERTER (R32)

UT36FH / UT42FH / UT48FH / UT60FH



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UUID1 U30



### H-INVERTER (R32)

UT36FH / UT42FH / UT48FH / UT60FH



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: www.eurovent-certification.com

UUID3 U30



COMBINATION		36	42	48	60	
Capacity	Cooling	Min. / Rated / Max. kW	38/9.5/12.8	48/12.1/14.5	54/13.4/16.1	60/15.0/16.2
	Heating	Min. / Rated / Max. kW	43/10.8/13.7	54/13.5/16.2	62/15.5/17.8	70/17.5/19.3
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.40/2.15/3.23	0.60/3.14/4.24	0.80/3.83/5.17	0.90/4.69/5.25
	Heating	Min. / Rated / Max. kW	0.50/2.40/3.36	0.70/3.29/4.28	0.80/4.18/5.24	1.10/5.38/6.19
Running Current	Cooling	Rated A	9.6	13.8	16.9	20.5
	Heating	Rated A	10.4	14.4	18.3	23.6
EER / COP		kWh/kWh	4.42/4.50	3.85/4.10	3.50/3.71	3.20/3.25
SEER / SCOP		kWh/kWh	7.6/4.5	7.4/4.5	6.8/4.5	6.6/4.5
Pdesign	Cooling @ 35°C	kW	9.5	12.1	13.4	15
	Heating @ -10°C	kW	9.5	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	- / -	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	437/2,956	981/2,956	1,182/2,956	1,364/2,956
Dehumidification Rate		l/h	2.6	4.8	5.3	6.9
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50/50	51/52	52/53	54/54
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	69	71
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max. °C	-25 / 18	-25 / 18	-25 / 18	-25 / 18
<b>INDOOR</b>		<b>UT36FH NAO</b>	<b>UT42FH NAO</b>	<b>UT48FH NAO</b>	<b>UT60FH NAO</b>	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	70 / 59 / 50	70 / 59 / 50	81 / 60 / 50	81 / 60 / 50
Air Flow Rate	H / M / L	m³/min	28 / 25 / 23	28 / 25 / 23	30 / 27 / 24	30 / 27 / 24
Dimensions	Body	W x H x D mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Weight	Body	kg	27.2	27.2	27.2	27.2
Sound Pressure Level	Cooling	H / M / L dB(A)	44 / 42 / 41	44 / 42 / 41	45 / 43 / 41	45 / 43 / 41
Sound Power Level	Cooling	Max. dB(A)	59	59	61	61
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
	Model Name	-	PT-AFGW0	PT-AFGW0	PT-AFGW0	PT-AFGW0
Recommended Decoration Panel*	Color	-	White	White	White	White
	Dimensions	Body mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Weight	Body kg	7.5	7.5	7.5	7.5
<b>OUTDOOR</b>		<b>UUID1 U30</b>				
Power Supply		Ø / V / Hz		1 / 220-240 / 50		
Circuit Breaker	Min.	A		40		
Power Supply Cable (Included Earth)		No x mm³		3C x 6.0		
Dimensions	Net	W x H x D mm		950 x 1,380 x 330		
Weight	Net	kg		85.0		
Compressor	Type	-		Inverter Scroll		
	Type	-		R32		
	GWP (Global Warming Potential)	-		675		
Refrigerant	Precharged Amount	kg		3.0		
	t-CO₂eq	-		2.025		
	Additional Charge (After 7.5m)	g/m		40		
Fan	Air Flow Rate	Rated m³/min x No.		55 x 2		
Total Piping Length	Min. / Max. m			5 / 85		
Piping Elevation	IDU - ODU	Max. m		30		

\* Decoration panel can be selected as an optional accessory.

Note :

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2. Performances are based on the following conditions (It is accordance with EN14511)
  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R32)

### H-INVERTER (R32)

UT36FH / UT42FH / UT48FH / UT60FH



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COMBINATION		36	42	48	60	
Capacity	Cooling	Min. / Rated / Max. kW	38/9.5/12.8	48/12.1/14.5	54/13.4/16.1	60/15.0/16.2
	Heating	Min. / Rated / Max. kW	43/10.8/13.7	54/13.5/16.2	62/15.5/17.8	70/17.5/19.3
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.40/2.15/3.23	0.60/3.14/4.24	0.80/3.83/5.17	0.90/4.69/5.25
	Heating	Min. / Rated / Max. kW	0.50/2.40/3.36	0.70/3.29/4.28	0.80/4.18/5.24	1.10/5.38/6.19
Running Current	Cooling	Rated A	3.6	4.9	6.0	7.3
	Heating	Rated A	3.8	5.1	6.5	8.2
EER / COP		kWh/kWh	4.42/4.50	3.85/4.10	3.50/3.71	3.20/3.25
SEER / SCOP		kWh/kWh	7.6/4.5	7.4/4.5	6.8/4.5	6.6/4.5
Pdesign	Cooling @ 35°C	kW	9.5	12.1	13.4	15
	Heating @ -10°C	kW	9.5	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	- / -	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	437/2,956	981/2,956	1,182/2,956	1,364/2,956
Dehumidification Rate		l/h	2.6	4.8	5.3	6.9
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50/50	51/52	52/53	54/54
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	69	71
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max. °C	-25 / 18	-25 / 18	-25 / 18	-25 / 18
<b>INDOOR</b>		<b>UT36FH NAO</b>	<b>UT42FH NAO</b>	<b>UT48FH NAO</b>	<b>UT60FH NAO</b>	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	70 / 59 / 50	70 / 59 / 50	81 / 60 / 50	81 / 60 / 50
Air Flow Rate	H / M / L	m³/min	28 / 25 / 23	28 / 25 / 23	30 / 27 / 24	30 / 27 / 24
Dimensions	Body	W x H x D mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Weight	Body	kg	27.2	27.2	27.2	27.2
Sound Pressure Level	Cooling	H / M / L dB(A)	44 / 42 / 41	44 / 42 / 41	45 / 43 / 41	45 / 43 / 41
Sound Power Level	Cooling	Max. dB(A)	59	59	61	61
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
	Model Name	-	PT-AFGW0	PT-AFGW0	PT-AFGW0	PT-AFGW0
Recommended Decoration Panel*	Color	-	White	White	White	White
	Dimensions	Body mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Weight	Body kg	7.5	7.5		

## CEILING MOUNTED CASSETTE

## STANDARD INVERTER (R32)

CT09F / CT12F / CT18F



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[www.eurovent-certification.com](http://www.eurovent-certification.com)

UUA1 ULO UUB1 U20



COMBINATION	9	12	18	
Capacity	Cooling Min. / Rated / Max. kW	1.5 / 2.5 / 3.2	1.5 / 3.4 / 4.5	2.0 / 5.0 / 5.8
	Heating Min. / Rated / Max. kW	1.8 / 3.2 / 3.7	1.8 / 4.1 / 5.0	2.3 / 5.7 / 6.6
Power Input (Set)	Cooling Min. / Rated / Max. kW	0.30 / 0.61 / 0.87	0.30 / 0.98 / 1.62	0.30 / 1.57 / 2.20
	Heating Min. / Rated / Max. kW	0.30 / 0.75 / 0.89	0.30 / 1.11 / 1.57	0.30 / 1.52 / 2.13
Running Current	Cooling Rated A	2.7	4.4	8.0
	Heating Rated A	3.3	4.9	7.8
EER / COP	kWh/kWh	4.10 / 4.30	3.50 / 3.71	3.19 / 3.74
SEER / SCOP	kWh/kWh	6.7 / 4.0	6.7 / 4.0	6.4 / 4.3
Pdesign	Cooling @ 35°C kW	2.5	3.4	5
	Heating @ -10°C kW	2.8	2.8	4.1
Seasonal Energy Label	Cooling / Heating A++ / A+	A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating kWh	131 / 980	178 / 980	273 / 1,335
Dehumidification Rate	I/h	0.63	1.26	1.89
ODU Sound Pressure Level	Cooling / Heating Rated dB(A)	49 / 52	49 / 52	47 / 52
ODU Sound Power Level	Cooling Rated dB(A)	65	65	63
	Liquid mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
Piping Connections	Gas mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Connections Method	- Flared	Flared	Flared
Operation Range (Outdoor)	Cooling Min. / Max. °C	-15 / 50	-15 / 50	-15 / 50
	Heating Min. / Max. °C	-20 / 18	-20 / 18	-20 / 18
INDOOR	CT09F NRO	CT12F NRO	CT18F NQO	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L W	26 / 22 / 19	28 / 24 / 20	30 / 26 / 22
Air Flow Rate	H / M / L m³/min	8.5 / 7.0 / 6.0	9.5 / 8.0 / 7.0	13 / 12 / 11
Dimensions	Body W x H x D mm	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570
Weight	Body kg	12.4	12.4	13.9
Sound Pressure Level	Cooling H / M / L dB(A)	36 / 33 / 30	38 / 35 / 32	41 / 39 / 37
Sound Power Level	Cooling Max. dB(A)	52	52	57
Piping Connections	Drain O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
	Model Name -	PT-QAGW0	PT-QAGW0	PT-QAGW0
Recommended Decoration Panel*	Color -	White	White	White
Dimensions	Body mm	620 x 34 x 620	620 x 34 x 620	620 x 34 x 620
Weight	Body kg	3.0	3.0	3.0
OUTDOOR	UUA1 ULO	UUB1 U20		
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker	Min. A	15	20	
Power Supply Cable (Included Earth)	No x mm³	3C x 1.5	3C x 2.5	
Dimensions	Net W x H x D mm	770 x 545 x 288	870 x 650 x 330	
Weight	Net kg	33.3	44.5	
Compressor	Type -	Twin Rotary	Twin Rotary	
	Type -	R32	R32	
Refrigerant	GWP (Global Warming Potential) -	675	675	
	Precharged Amount kg	1.0	1.2	
	t-CO <sub>2</sub> eq -	0.675	0.81	
	Additional Charge (After 7.5m) g/m	20	20	
Fan	Air Flow Rate Rated m³/min x No.	28 x 1	50 x 1	
Total Piping Length	Min. / Max. m	5 / 30	5 / 30	
Piping Elevation	IDU - ODU Max. m	30	30	

\* Decoration panel can be selected as an optional accessory.

Note :

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2. Performances are based on the following conditions (It is accordance with EN14511)
  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R32)

## STANDARD INVERTER (R32)

CT24F / UT30F



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UUC1 U40



COMBINATION	24	30	
Capacity	Cooling Min. / Rated / Max. kW	2.7 / 6.8 / 8.0	3.2 / 8.0 / 9.2
	Heating Min. / Rated / Max. kW	3.0 / 7.5 / 9.0	3.6 / 8.9 / 10.1
Power Input (Set)	Cooling Min. / Rated / Max. kW	0.40 / 1.93 / 2.66	0.50 / 2.45 / 3.14
	Heating Min. / Rated / Max. kW	0.40 / 1.96 / 2.84	0.50 / 2.62 / 3.25
Running Current	Cooling Rated A	8.6	10.9
	Heating Rated A	8.7	11.6
EER / COP	kWh/kWh	3.52 / 3.83	3.27 / 3.40
SEER / SCOP	kWh/kWh	7.4 / 4.3	7.1 / 4.3
Pdesign	Cooling @ 35°C kW	6.8	8
	Heating @ -10°C kW	5.6	5.6
Seasonal Energy Label	Cooling / Heating -	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating kWh	322 / 1,823	394 / 1,823
Dehumidification Rate	I/h	2.8	2.8
ODU Sound Pressure Level	Cooling / Heating Rated dB(A)	48 / 52	50 / 52
ODU Sound Power Level	Cooling Rated dB(A)	65	68
	Liquid mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method -	Flared	Flared
Operation Range (Outdoor)	Cooling Min. / Max. °C	-20 / 50	-20 / 50
	Heating Min. / Max. °C	-20 / 18	-20 / 18
INDOOR	CT24F NBO	UT30F NBO	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L W	36 / 26 / 21	40 / 33 / 26
Air Flow Rate	H / M / L m³/min	18 / 15.5 / 14	19 / 17 / 15.5
Dimensions	Body W x H x D mm	840 x 204 x 840	840 x 204 x 840
Weight	Body kg	21.1	21.1
Sound Pressure Level	Cooling H / M / L dB(A)	38 / 36 / 34	40 / 37 / 35
Sound Power Level	Cooling Max. dB(A)	53	57
Piping Connections	Drain O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0
	Model Name -	PT-AAGW0	PT-AAGW0
Recommended Decoration Panel*	Color -	White	White
Dimensions	Body mm	950 x 35 x 950	950 x 35 x 950
Weight	Body kg	7.1	7.1
OUTDOOR	UUC1 U40		
Power Supply	Ø / V / Hz	1 / 220-240 / 50	
Circuit Breaker	Min. A	25	
Power Supply Cable (Included Earth)	No x mm³	3C x 2.5	
Dimensions	Net W x H x D mm	950 x 834 x 330	
Weight	Net kg	57.7	
Compressor	Type -	Twin Rotary	
	Type -	R32	
Refrigerant	GWP (Global Warming Potential) -	675	
	Precharged Amount kg	1.9	
	t-CO <sub>2</sub> eq -	1.283	
	Additional Charge (After 7.5m) g/m	40	
Fan	Air Flow Rate Rated m³/min x No.	58 x 1	
Total Piping Length	Min. / Max. m	5 / 50	
Piping Elevation	IDU - ODU Max. m	30	

\* Decoration panel can be selected as an optional accessory.

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  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R32)

## CEILING MOUNTED CASSETTE

# CEILING MOUNTED CASSETTE

COMMERCIAL SINGLE SPLIT

## CEILING MOUNTED CASSETTE

### STANDARD INVERTER (R32)

UT36F / UT42F / UT48F / UT60F



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### UUD1 U30



COMBINATION		36	42	48	60	
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.5	4.8 / 12.1 / 14.2	5.4 / 13.4 / 15.7	5.8 / 14.6 / 15.8
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.4	5.4 / 13.5 / 15.8	6.2 / 15.5 / 17.5	6.8 / 16.9 / 18.3
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.26 / 3.44	0.70 / 3.31 / 4.30	0.90 / 4.25 / 5.53	1.00 / 5.21 / 5.84
	Heating	Min. / Rated / Max. kW	0.50 / 2.43 / 3.30	0.70 / 3.51 / 4.56	0.90 / 4.37 / 5.33	1.00 / 5.12 / 5.89
Running Current	Cooling	Rated A	10.1	14.6	18.7	23.1
	Heating	Rated A	10.7	15.0	19.0	22.7
EER / COP		kWh/kWh	4.20 / 4.45	3.66 / 3.85	3.15 / 3.55	2.80 / 3.30
SEER / SCOP		kWh/kWh	7.0 / 4.3	7.0 / 4.3	6.5 / 4.2	6.2 / 4.2
Pdesign	Cooling @ 35°C	kW	9.5	12.1	13.4	14.6
	Heating @ -10°C	kW	9.5	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	- / -	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	475 / 3,093	1,037 / 3,093	1,237 / 3,167	1,413 / 3,167
Dehumidification Rate		l/h	2.4	4.5	5.7	6.6
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50	51 / 52	52 / 53	54 / 54
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	69	71
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max. °C	-25 / 18	-25 / 18	-25 / 18	-25 / 18
<b>INDOOR</b>		<b>UT36F NAO</b>	<b>UT42F NAO</b>	<b>UT48F NAO</b>	<b>UT60F NAO</b>	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	60 / 50 / 45	60 / 50 / 45	80 / 60 / 50	80 / 60 / 50
Air Flow Rate	H / M / L	m³/min	27.5 / 25 / 22.5	27.5 / 25 / 22.5	30 / 27.5 / 25	30 / 27.5 / 25
Dimensions	Body	W x H x D mm	840 x 288 x 840			
Weight	Body	kg	25.3	25.3	25.3	25.3
Sound Pressure Level	Cooling	H / M / L dB(A)	44 / 42 / 41	44 / 42 / 41	46 / 44 / 42	46 / 44 / 42
Sound Power Level	Cooling	Max. dB(A)	61	61	62	62
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
	Model Name	-	PT-AAGW0	PT-AAGW0	PT-AAGW0	PT-AAGW0
Recommended Decoration Panel*	Color	-	White	White	White	White
	Dimensions	Body mm	950 x 35 x 950			
	Weight	Body kg	7.1	7.1	7.1	7.1
<b>OUTDOOR</b>		<b>UUD1 U30</b>				
Power Supply		Ø / V / Hz	1 / 220-240 / 50			
Circuit Breaker	Min.	A	40			
Power Supply Cable (Included Earth)		No x mm³	3C x 6.0			
Dimensions	Net	W x H x D mm	950 x 1,380 x 330			
Weight	Net	kg	85.0			
Compressor	Type	-	Inverter Scroll			
	Type	-	R32			
	GWP (Global Warming Potential)	-	675			
Refrigerant	Precharged Amount	kg	3.0			
	t-CO <sub>2</sub> eq	-	2.025			
	Additional Charge (After 7.5m)	g/m	40			
Fan	Air Flow Rate	Rated m³/min x No.	55 x 2			
Total Piping Length	Min. / Max. m		5 / 85			
Piping Elevation	IDU - ODU	Max. m	30			

\* Decoration panel can be selected as an optional accessory.

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  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R32)

### STANDARD INVERTER (R32)

UT36F / UT42F / UT48F / UT60F



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COMBINATION		36	42	48	60	
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.5	4.8 / 12.1 / 14.2	5.4 / 13.4 / 15.7	5.8 / 14.6 / 15.8
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.4	5.4 / 13.5 / 15.8	6.2 / 15.5 / 17.5	6.8 / 16.9 / 18.3
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.26 / 3.44	0.70 / 3.31 / 4.30	0.90 / 4.25 / 5.53	1.00 / 5.21 / 5.84
	Heating	Min. / Rated / Max. kW	0.50 / 2.43 / 3.30	0.70 / 3.51 / 4.56	0.90 / 4.37 / 5.33	1.00 / 5.12 / 5.89
Running Current	Cooling	Rated A	3.8	5.2	6.6	8.1
	Heating	Rated A	3.9	5.4	6.7	7.9
EER / COP		kWh/kWh	4.20 / 4.45	3.66 / 3.85	3.15 / 3.55	2.80 / 3.30
SEER / SCOP		kWh/kWh	7.0 / 4.3	7.0 / 4.3	6.5 / 4.2	6.2 / 4.2
Pdesign	Cooling @ 35°C	kW	9.5	12.1	13.4	14.6
	Heating @ -10°C	kW	9.5	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	- / -	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	475 / 3,093	1,037 / 3,093	1,237 / 3,167	1,413 / 3,167
Dehumidification Rate		l/h	2.4	4.5	5.7	6.6
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50	51 / 52	52 / 53	54 / 54
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	69	71
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max. °C	-25 / 18	-25 / 18	-25 / 18	-25 / 18
<b>INDOOR</b>		<b>UT36F NAO</b>	<b>UT42F NAO</b>	<b>UT48F NAO</b>	<b>UT60F NAO</b>	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	60 / 50 / 45	60 / 50 / 45	80 / 60 / 50	80 / 60 / 50
Air Flow Rate	H / M / L	m³/min	27.5 / 25 / 22.5	27.5 / 25 / 22.5	30 / 27.5 / 25	30 / 27.5 / 25
Dimensions	Body	W x H x D mm	840 x 288 x 840			
Weight	Body	kg	25.3	25.3	25.3	25.3
Sound Pressure Level	Cooling	H / M / L dB(A)	44 / 42 / 41	44 / 42 / 41	46 / 44 / 42	46 / 44 / 42
Sound Power Level	Cooling	Max. dB(A)	61	61	62	62
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
	Model Name	-	PT-AAGW0	PT-AAGW0	PT-AAGW0	PT-AAGW0
Recommended Decoration Panel*	Color	-	White	White	White	White
	Dimensions	Body mm	950 x 35 x 950			
	Weight					

# ACCESSORIES

# CEILING MOUNTED CASSETTE

## COMPACT INVERTER (R32)

CT18F / CT24F / UT30F / UT36F

UUA1 ULO UUB1 U20 UUC1 U40



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COMBINATION		18	24	30	36
Capacity	Cooling	Min. / Rated / Max. kW	1.8 / 5.0 / 5.5	2.7 / 6.8 / 7.5	3.0 / 7.5 / 8.3
	Heating	Min. / Rated / Max. kW	2.1 / 5.2 / 5.7	3.0 / 7.5 / 8.6	3.2 / 7.9 / 8.7
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.34 / 1.76 / 2.11	0.40 / 2.00 / 2.40	0.50 / 2.31 / 2.77
	Heating	Min. / Rated / Max. kW	0.30 / 1.45 / 1.87	0.40 / 2.21 / 2.87	0.50 / 2.37 / 3.08
Running Current	Cooling	Rated A	7.8	8.8	10.1
	Heating	Rated A	6.4	9.6	10.4
EER / COP		kWh/kWh	2.85 / 3.60	3.40 / 3.39	3.25 / 3.34
SEER / SCOP		kWh/kWh	6.3 / 3.9	7.0 / 4.2	6.8 / 4.2
Pdesign	Cooling @ 35°C	kW	5	6.8	7.5
	Heating @ -10°C	kW	2.8	4.1	4.1
Seasonal Energy Label	Cooling / Heating	-	A++ / A	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating	kWh	278 / 1,005	340 / 1,367	386 / 1,367
Dehumidification Rate		l/h	1.8	2.6	3.1
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	49 / 52	48 / 53	50 / 54
ODU Sound Power Level	Cooling	Rated dB(A)	65	65	67
Piping Connections	Liquid	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas	mm (inch)	Ø9.52 (3/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections Method	-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-10 / 50	-10 / 48	-10 / 48
	Heating	Min. / Max. °C	-10 / 18	-15 / 18	-15 / 18
INDOOR		CT18F NQ0	CT24F NBO	UT30F NBO	UT36F NAO
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	30 / 26 / 22	36 / 26 / 21	40 / 33 / 26
Air Flow Rate	H / M / L	m³/min	13 / 12 / 11	18 / 15.5 / 14	19 / 17 / 15.5
Dimensions	Body	W x H x D mm	570 x 256 x 570	840 x 204 x 840	840 x 204 x 840
Weight	Body	kg	13.9	21.1	21.1
Sound Pressure Level	Cooling	H / M / L dB(A)	41 / 39 / 37	38 / 36 / 34	40 / 37 / 35
Sound Power Level	Cooling	Max. dB(A)	57	53	57
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
Recommended Decoration Panel*	Model Name	-	PT-QAGW0	PT-AAGW0	PT-AAGW0
	Color	-	White	White	White
Dimensions	Body	mm	620 x 34 x 620	950 x 35 x 950	950 x 35 x 950
Weight	Body	kg	3.0	7.1	7.1
OUTDOOR		UUA1 ULO	UUB1 U20	UUC1 U40	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker	Min.	A	15	20	25
Power Supply Cable (Included Earth)	No x mm³	3C x 1.5	3C x 2.5	3C x 2.5	
Dimensions	Net	W x H x D mm	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330
Weight	Net	kg	33.3	44.5	57.7
Compressor	Type	-	Twin Rotary	Twin Rotary	Twin Rotary
	Type	-	R32	R32	R32
Refrigerant	GWP (Global Warming Potential)	-	675	675	675
	Precharged Amount	kg	1.0	1.2	1.9
	t-CO <sub>2</sub> eq	-	0.675	0.81	1.283
	Additional Charge (After 7.5m)	g/m	20	40	40
Fan	Air Flow Rate	Rated m³/min x No.	28 x 1	50 x 1	58 x 1
Total Piping Length	Min. / Max. m		5 / 30	5 / 35	5 / 50
Piping Elevation	IDU - ODU	Max. m	30	30	30

\* Decoration panel can be selected as an optional accessory.

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- Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB

- Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB

- Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.

4. This product contains fluorinated greenhouse gases. (R32)

## Cassette Panel



### Model Name

PT-AAGW0  
PT-AFGW0  
PT-QAGW0 (Mini 4 Way)

### Key Features

Model	Dual Vane	Wi-Fi	Floor Temperature Sensor	Air Purification	Human Detection Sensor	Dust Sensor	Tact switch	Elevating Grille
PT-AAGW0	O	Optional	Optional	X	Optional	X	X	X
PT-AFGW0	O	Optional	Optional	Optional	Optional	O	O	X

### Specification

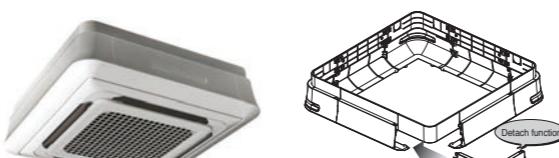
Model	Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)		
					W	H	D
PT-AAGW0	Grid	White (RAL 9003)	-	7.1	950	35	950
PT-AFGW0	Grid	White (RAL 9003)	-	7.5	950	35	950
PT-QAGW0	Grid	White (RAL 9003)	-	3.0	620	34	620

### Air Purification Kit

Model	Image	Model name	Dielectric Dust collecting filter	Photocatalytic Deodorizing filter	HVPS	Ionizer
Air cleaning kit		PTAHMPO	○	○	○	○

## Cassette Cover

Cover in case of exposed cassette installation.



### Model Name

PTDCQ / PTDCA\*

\* PTDCA suitable for Dual Vane 4 Way CST (840 x 840) will be available later.

### Applied Products

4 Way Cassette (for chassis TQ, TR)

### Included Parts

• Cover A, Cover B	• Screws
• Cover C, Cover D	• Installation Manualte (for chassis TQ, TR)
	Installation Manual

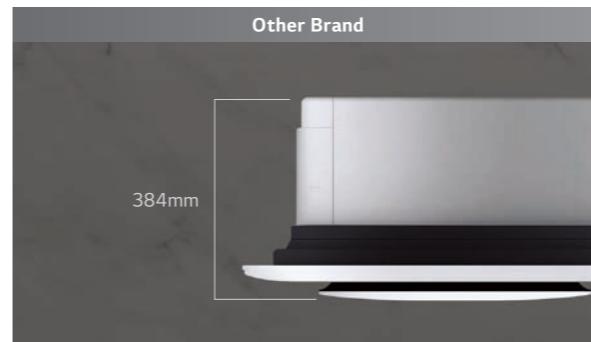
# ROUND CASSETTE

# ROUND CASSETTE



## Slim and Compact Design

The LG Round Cassette's compact design makes the space look more spacious and secure.

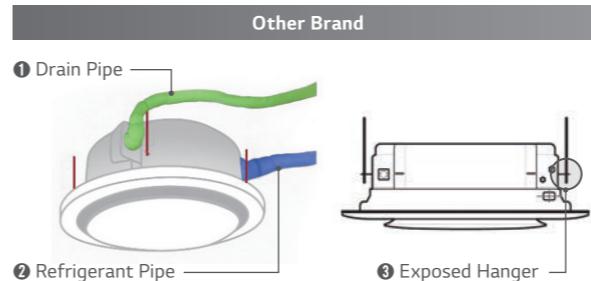


※ Product : 11 / 13.4kW



## Minimal Exposure Design

LG Round Cassette hides clunky parts into a smooth surface to provide harmony and aesthetic.

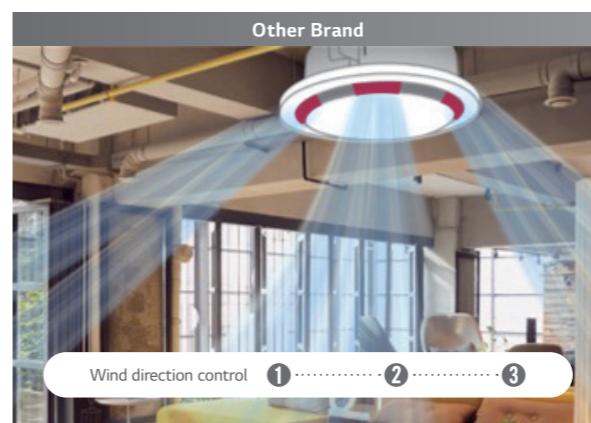


PIN UP  
DESIGN AWARDS

This air conditioning impresses with a sophisticated design and application concept that combines modern technology with a user-friendly operating comfort.  
※ Red Dot Design Award : World's three major international design competitions, German Design Association (2019)  
PIN UP Design Award : Korea Industrial Designers Association (Ministry of Trade, Industry and Energy) (2018)

## 6-Step Vane Control

Crystal vane allows for 6-step precision control for cool and warm airflow in every direction.



Wind direction control ① ..... ② ..... ③

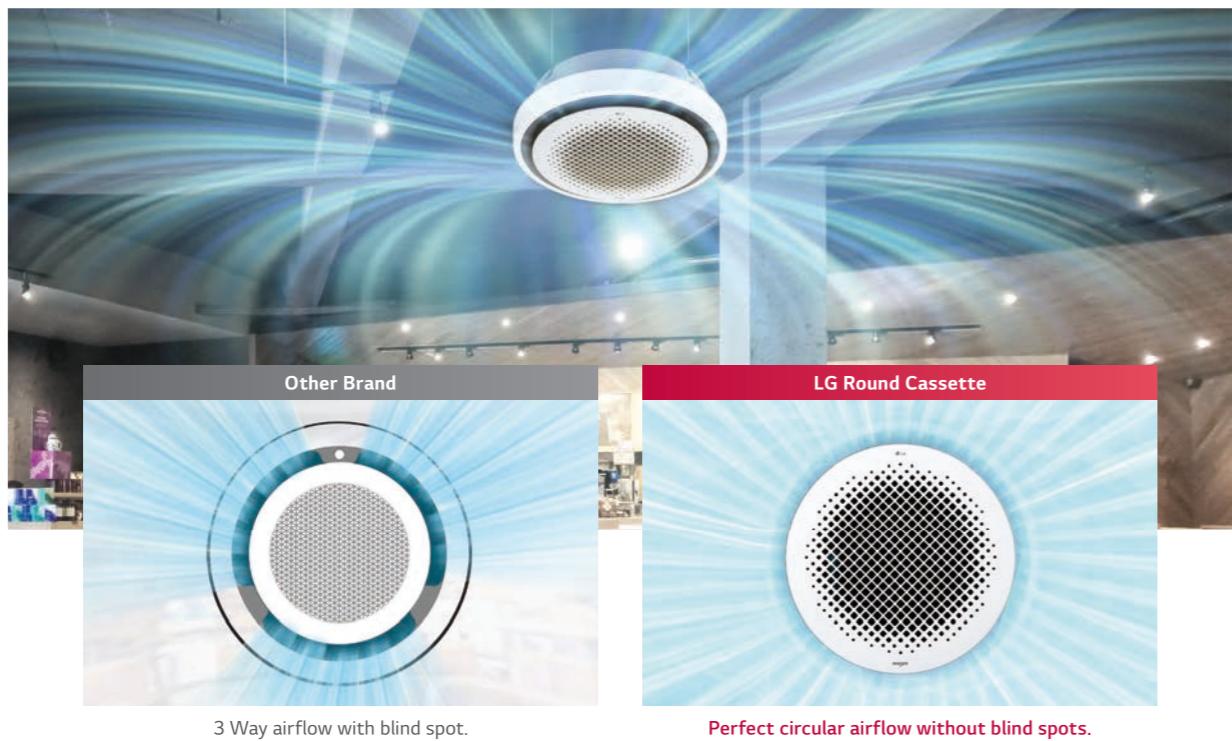


Wind direction control ① ② ③ ④ ⑤ ⑥

# ROUND CASSETTE

## Perfect Round Airflow

Perfect round airflow without blind spots and 4 vanes can be controlled individually.



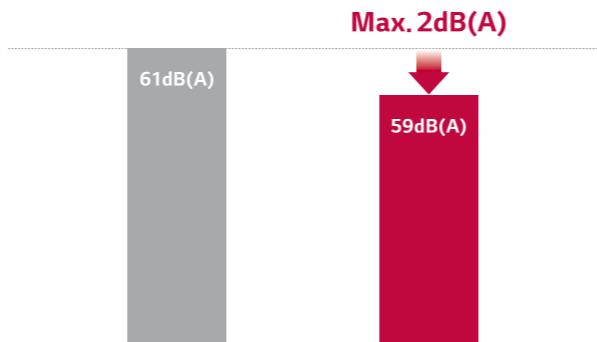
## Quiet Operation

LG Round cassette makes the space quieter.

### Sound Pressure



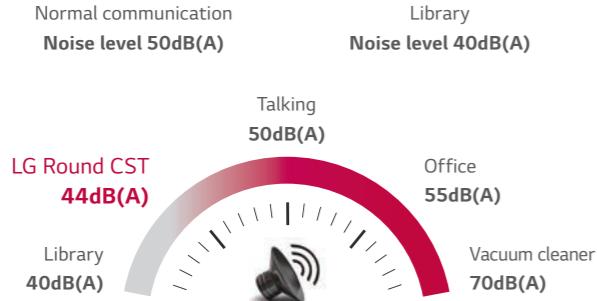
### Sound Power



### Sound power levels (cooling)\_dB(A)

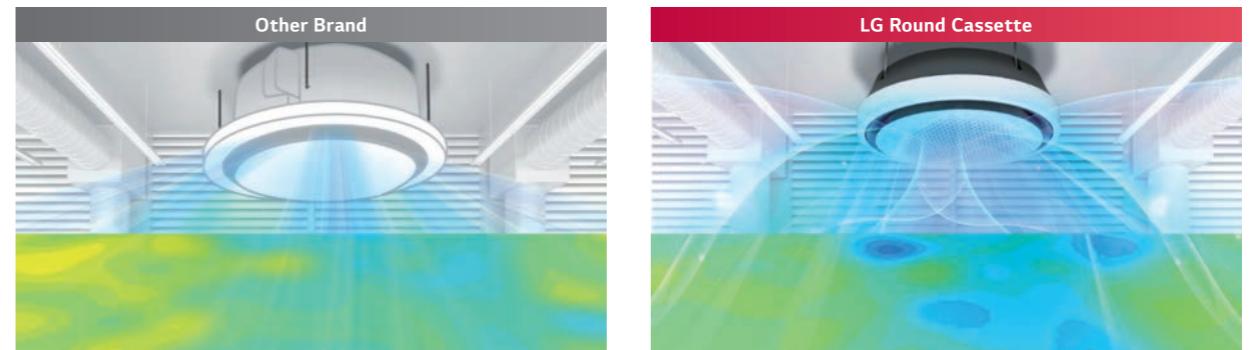
Other brand	LG Round Cassette
61	Max. 59

※ The value is based on the Sound pressure Level(Cooling), 11.0kW model



## Faster in Cooling

Larger airflow rate, cooling rate is 30% faster the competition.

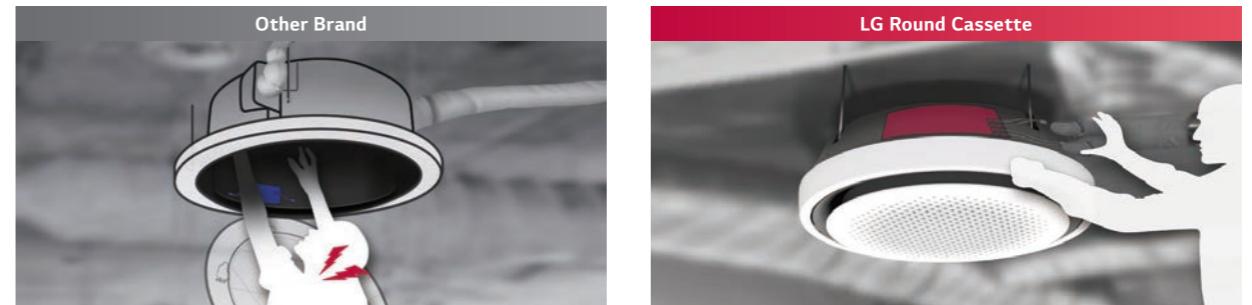


※ Based on test results from LG chamber, this image is designed to help customers understand.

Experimental environment : height 3.2m, cooling mode, high flow rate, horizontal air flow direction, initial temperature :33°C, setting temperature 26°C

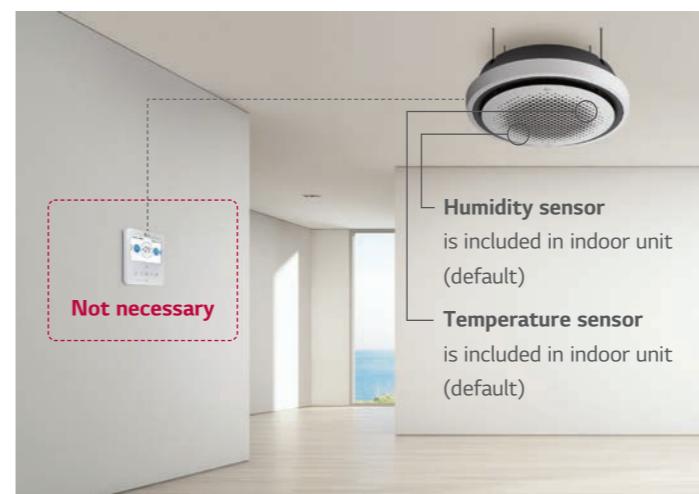
## Outside Control Box

The control box is located on the side for comfortable wiring and installation.



## Embedded Humidity Sensor

Humidity sensor is included as standard, so comfort cooling function is possible without separate wired remote controller.



### Simple Setting

- Press the 'Function' button repeatedly until 'comfort cooling icon' displayed



Function  
Button

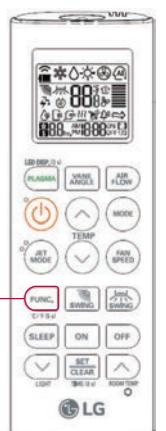


Comfort  
Cooling  
Icon

- Press the 'Set' button



Set  
Button



**STANDARD INVERTER (R32)****UT36F NYO / UT48F NYO**

LG participates in the ECP programme for EUROVENT AC program.  
Check ongoing validity of certification  
[www.eurovent-certification.com](http://www.eurovent-certification.com)

**UUID1 U30**

COMBINATION		<b>36</b>	<b>48</b>
Capacity	Cooling	Min. / Rated / Max. kW	3.80 / 11.00 / 12.54
	Heating	Min. / Rated / Max. kW	4.30 / 12.20 / 13.39
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 3.06 / 3.98
	Heating	Min. / Rated / Max. kW	0.50 / 3.13 / 4.26
Running Current	Cooling	Rated A	10.10
	Heating	Rated A	10.70
EER / COP		kWh/kWh	3.60 / 3.90
SEER / SCOP		kWh/kWh	6.80 / 4.30
P Design	Cooling @ 35°C	kW	11.0
	Heating @ -10°C	kW	9.0
Seasonal Energy Label	Cooling / Heating	-	- / -
Annual Energy Consumption	Cooling / Heating	kWh	566 / 2,930
Dehumidification Rate		ℓ/h	4.27
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50
ODU Sound Power Level	Cooling / Heating	Rated dB(A)	66 / -
	Liquid	Outer Dia. mm (inch)	Ø 9.52 (3/8)
Piping Connections	Gas	Outer Dia. mm (inch)	Ø 15.88 (5/8)
	Connections Method	-	Flare
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52
	Heating	Min. / Max. °C	-25 / 18
<b>INDOOR</b>		<b>UT36F NYO</b>	<b>UT48F NYO</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	90 / 66 / 48
Air Flow Rate	H / M / L	m³/min	25.0 / 21.0 / 19.0
Dimensions	Body	W x H x D mm	1,050 x 330 x 1,050
Weight	Body	kg	30.0
Sound Pressure Level	Cooling	H / M / L dB(A)	44.0 / 40.0 / 38.0
	Heating	H / M / L dB(A)	47.0 / 43.0 / 40.0
Sound Power Level	Cooling	Rated dB(A)	59
	Heating	Rated dB(A)	-
Piping Connections	Drain Pipe	O.D. / I.D. mm	Ø 32.0 / 25.0
<b>OUTDOOR</b>		<b>UUID1 U30</b>	
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Circuit Breaker	Min.	A	40
Power Supply Cable (included Earth)		No. x mm²	3C x 6.0
Dimensions	Net	W x H x D mm	950 x 1,380 x 330
Weight	Net	kg	85.0
Compressor	Type	-	LG Inverter Scroll
	Type	-	R32
Refrigerant	GWP (Global Warming Potential)	-	675
	Prefilled Amount	kg	3.0
	t-CO <sub>2</sub> eq.	-	2.025
	Additional Charging Volume	g/m	40
Fan	Air Flow Rate	Rated m³/min x No.	55 x 2
Total Piping Length	Min. / Max.	m	5 / 85
Piping Elevation	IDU-ODU	Max. m	30

**STANDARD INVERTER (R32)****UT36F NYO / UT48F NYO**

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**UUID3 U30**

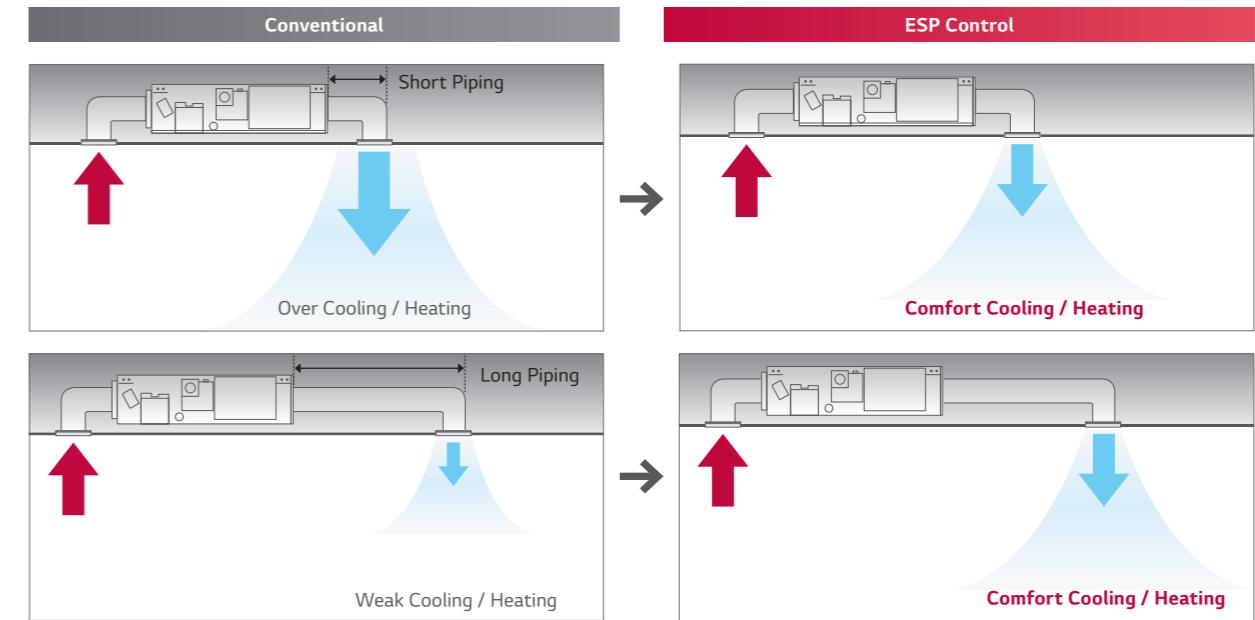
COMBINATION		<b>36</b>	<b>48</b>
Capacity	Cooling	Min. / Rated / Max. kW	3.80 / 11.00 / 12.54
	Heating	Min. / Rated / Max. kW	4.30 / 12.20 / 13.39
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 3.06 / 3.98
	Heating	Min. / Rated / Max. kW	0.50 / 3.13 / 4.26
Running Current	Cooling	Rated A	5.20
	Heating	Rated A	5.30
EER / COP		kWh/kWh	3.60 / 3.90
SEER / SCOP		kWh/kWh	6.80 / 4.30
P Design	Cooling @ 35°C	kW	11.0
	Heating @ -10°C	kW	9.0
Seasonal Energy Label	Cooling / Heating	-	- / -
Annual Energy Consumption	Cooling / Heating	kWh	566 / 2,931
Dehumidification Rate		ℓ/h	4.27
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50
ODU Sound Power Level	Cooling / Heating	Rated dB(A)	66 / -
	Liquid	Outer Dia. mm (inch)	Ø 9.52 (3/8)
Piping Connections	Gas	Outer Dia. mm (inch)	Ø 15.88 (5/8)
	Connections Method	-	Flare
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52
	Heating	Min. / Max. °C	-25 / 18
<b>INDOOR</b>		<b>UT36F NYO</b>	<b>UT48F NYO</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	90 / 66 / 48
Air Flow Rate	H / M / L	m³/min	25.0 / 21.0 / 19.0
Dimensions	Body	W x H x D mm	1,050 x 330 x 1,050
Weight	Body	kg	30.0
Sound Pressure Level	Cooling	H / M / L dB(A)	44.0 / 40.0 / 38.0
	Heating	H / M / L dB(A)	47.0 / 43.0 / 40.0
Sound Power Level	Cooling	Rated dB(A)	59
	Heating	Rated dB(A)	-
Piping Connections	Drain Pipe	O.D. / I.D. mm	Ø 32.0 / 25.0
<b>OUTDOOR</b>		<b>UUID3 U30</b>	
Power Supply		Ø / V / Hz	3 / 380-415 / 50
Circuit Breaker	Min.	A	20
Power Supply Cable (included Earth)		No. x mm²	5C x 2.5
Dimensions	Net	W x H x D mm	950 x 1,380 x 330
Weight	Net	kg	85.0
Compressor	Type	-	LG Inverter Scroll
	Type	-	R32
Refrigerant	GWP (Global Warming Potential)	-	675
	Prefilled Amount	kg	3.0
	t-CO <sub>2</sub> eq.	-	2.025
	Additional Charging Volume	g/m	40
Fan	Air Flow Rate	Rated m³/min x No.	55 x 2
Total Piping Length	Min. / Max.	m	5 / 85
Piping Elevation	IDU-ODU	Max. m	30

# CEILING CONCEALED DUCT



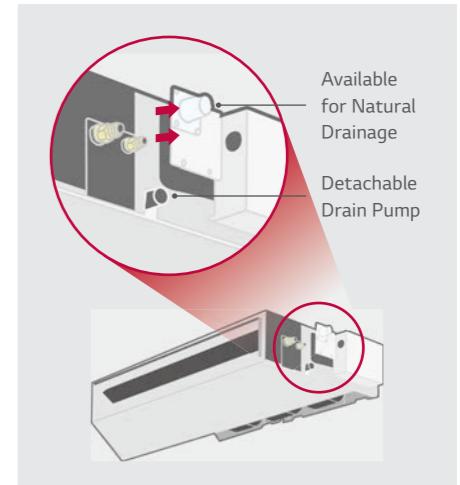
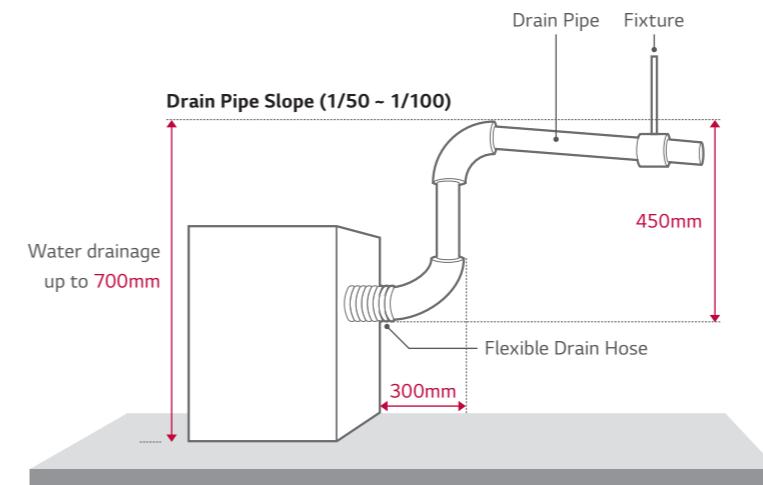
## External Static Pressure (ESP) Control

User has easy access to air volume selection via remote controller using the ESP control function. The BLDC motor can control fan speed and air volume. No additional accessories are necessary to control air flow.



## High Head Drain Pump

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

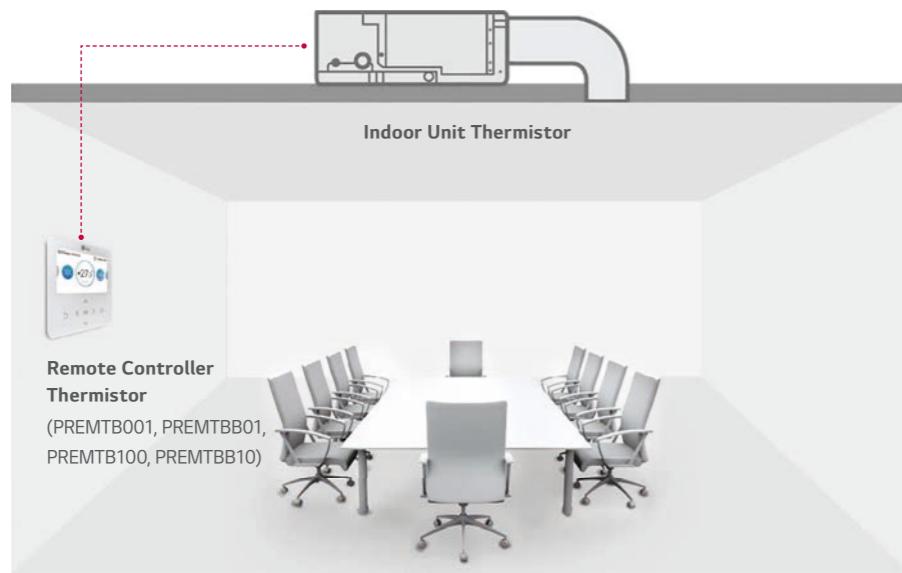


※ Standard Inverter : Accessory (ABDPG) / Low-Static Duct : Included  
※ Required by option for Standard / Compact Inverter high static pressure models.

# CEILING CONCEALED DUCT

## Two Thermistors Control

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



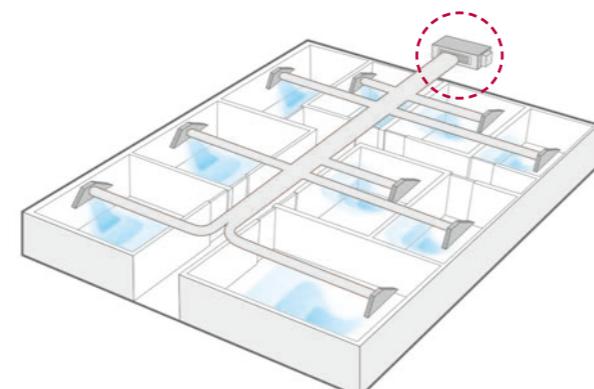
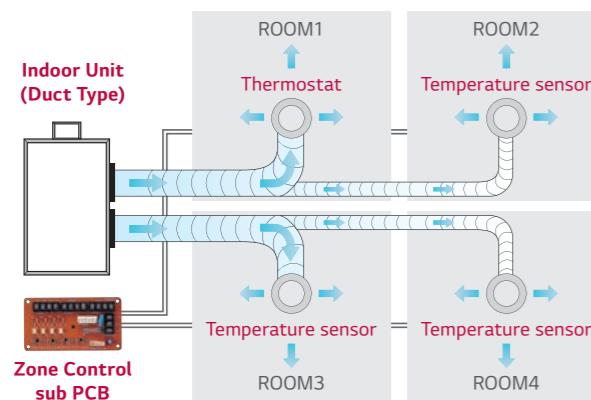
Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users.

## Operation for Multiple Rooms

Using a spiral duct (embedded or flexible type) and stream chamber, it is possible to operate cooling / heating for several rooms simultaneously. Also, zone control is available with zone controller accessory. (ABZCA)

### Zone control features

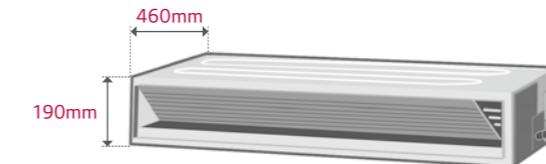
- Controls different zones (Up to 4 zones) by external thermostat (AC 24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation



## Minimized Height and Depth

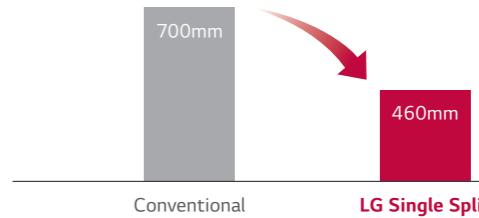
New Low Static ducts provide ideal solution for installation in limited space.

### Low Static Duct



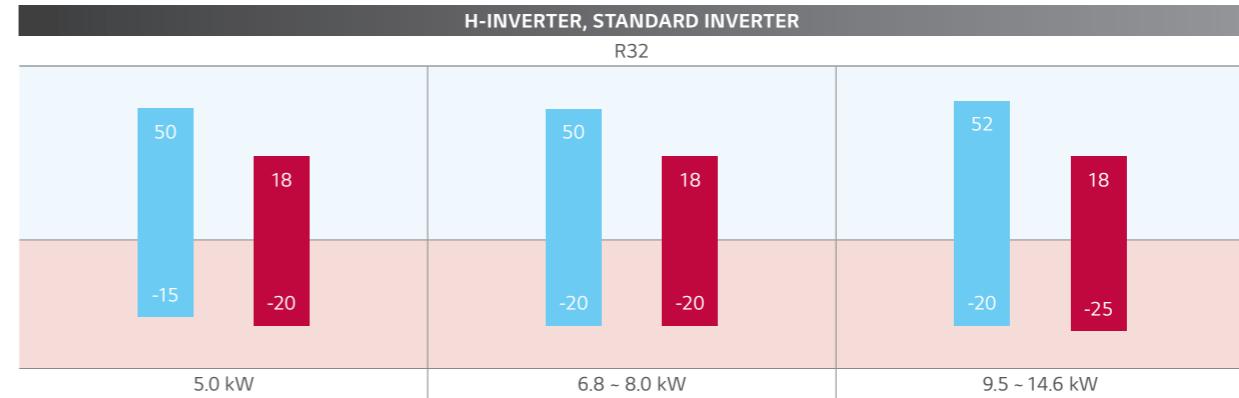
※ CL09F N50, CL12F N50, CL18F N60, UL12FH N50 only

### Depth



※ 2.5 / 3.4 / 5 kW

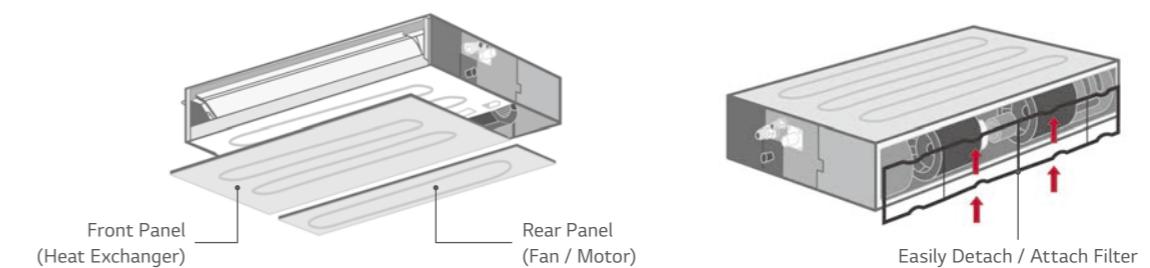
## Wide Operation Range



■ Outdoor temperature for cooling operation (°C DB) ■ Outdoor temperature for heating operation (°C WB)

## Easy Service & Maintenance

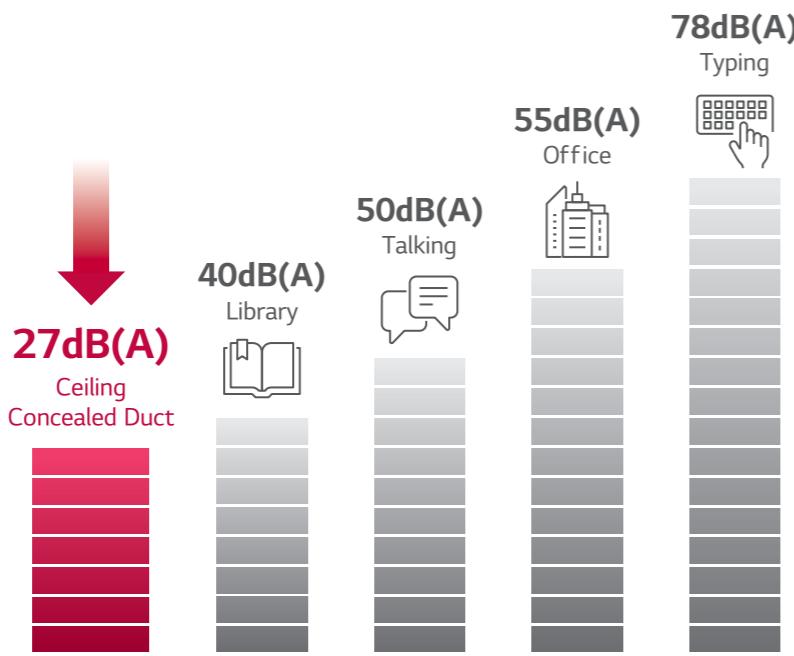
Users are not required to disassemble the whole panel for maintenance; since panel is divided into 2 components; one for heat exchanger and the other for fan / motor. The user can easily detach and re-attach the filter in the available limited space.



# CEILING CONCEALED DUCT

## Quiet Operation (Low Static Pressure Model)

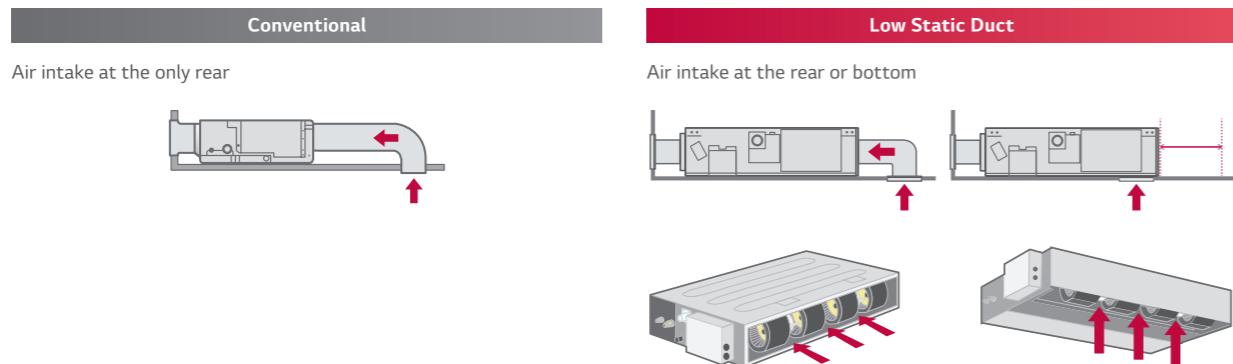
The noise level of low static ducts have been reduced, even though ESP has been increased.



		CL09F N50	CL12F N50	CL18F N60	CL24F N30
Sound Pressure (High / Medium / Low)	dB(A)	35 / 30 / 27	35 / 30 / 27	34 / 31 / 29	39 / 35 / 32

## Flexible Installation (Low Static Pressure Model)

Standard Inverter low static duct allows the air intake at the rear or bottom under installation condition.



## H-INVERTER (R32)

LOW STATIC PRESSURE  
- UL12FH / UL18FH



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UUA1 ULO    UUB1 U20



COMBINATION	12	18	
Capacity	Cooling Min. / Rated / Max. kW	1.5 / 3.4 / 4.7	2.0 / 5.0 / 6.0
	Heating Min. / Rated / Max. kW	1.8 / 4.0 / 4.9	2.3 / 5.8 / 7.0
Power Input (Set)	Cooling Min. / Rated / Max. kW	0.33 / 1.05 / 1.84	0.30 / 1.39 / 1.88
	Heating Min. / Rated / Max. kW	0.33 / 1.08 / 1.63	0.30 / 1.56 / 2.12
Running Current	Cooling Rated A	4.7	7.6
	Heating Rated A	4.8	8.1
EER / COP	kWh / kWh	3.23 / 3.71	3.60 / 3.71
SEER / SCOP	kWh / kWh	6.1 / 4.0	6.5 / 4.1
Pdesign	Cooling @ 35°C kW	3.4	5
	Heating @ -10°C kW	2.9	4.1
Seasonal Energy Label	Cooling / Heating -	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating kWh	195 / 1,015	269 / 1,400
Dehumidification Rate	l/h	0.8	2.6
ODU Sound Pressure Level	Cooling / Heating Rated dB(A)	49 / 52	47 / 52
ODU Sound Power Level	Cooling Rated dB(A)	65	63
	Liquid mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
Piping Connections	Gas mm (inch)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Connections Method -	Flared	Flared
Operation Range (Outdoor)	Cooling Min. / Max. °C	-15 / 50	-15 / 50
	Heating Min. / Max. °C	-20 / 18	-20 / 18
INDOOR	UL12FH N50	UL18FH N30	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L W	21 / 15 / 13	140 / 125 / 100
Air Flow Rate	H / M / L m³/min	11.5 / 9.5 / 8	18.5 / 15 / 11
Dimensions	Body W x H x D mm	900 x 190 x 460	1,100 x 190 x 700
Weight	Body kg	18	26.0
Sound Pressure Level	Cooling H / M / L dB(A)	35 / 30 / 27	38 / 34 / 31
Sound Power Level	Cooling Max dB(A)	55	56
Piping Connections	Drain O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0
OUTDOOR	UUA1 ULO	UUB1 U20	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker	Min A	15	20
Power Supply Cable (Included Earth)	No x mm²	3C x 1.5	3C x 2.5
Dimensions	Net W x H x D mm	770 x 545 x 288	870 x 650 x 330
Weight	Net kg	33.3	44.5
Compressor	Type -	Twin Rotary	Twin Rotary
	Type -	R32	R32
Refrigerant	GWP (Global Warming Potential) -	675	675
	Precharged Amount kg	1.0	1.2
	t-CO <sub>2</sub> eq -	0.675	0.81
	Additional Charge (After 7.5m) g/m	20	20
Fan	Air Flow Rate m³/min x No.	28 x 1	50 x 1
Total Piping Length	Min. / Max. m	5 / 30	5 / 30
Piping Elevation	IDU - ODU Max m	30	30

# CEILING CONCEALED DUCT

## H-INVERTER (R32)

MID STATIC PRESSURE  
- UM12FH / UM18FH / UM24FH / UM30FH

UUA1 ULO    UUB1 U20    UUC1 U40



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COMBINATION		12	18	24	30	
Capacity	Cooling	Min. / Rated / Max. kW	1.6 / 3.5 / 5.1	2.0 / 5.0 / 6.0	2.7 / 6.8 / 8.3	3.1 / 7.8 / 9.3
	Heating	Min. / Rated / Max. kW	1.6 / 4.0 / 5.8	2.3 / 5.8 / 7.0	3.0 / 7.5 / 9.4	3.6 / 9.0 / 10.7
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.32 / 1.03 / 1.93	0.30 / 1.26 / 1.70	0.40 / 1.84 / 2.56	0.50 / 2.25 / 2.99
	Heating	Min. / Rated / Max. kW	0.32 / 0.98 / 1.85	0.30 / 1.49 / 2.01	0.40 / 1.75 / 2.52	0.50 / 2.27 / 3.11
Running Current	Cooling	Rated A	4.6	7.3	8.2	10.0
	Heating	Rated A	4.3	7.8	7.8	10.1
EER / COP		kWh / kWh	3.40 / 4.10	3.96 / 3.89	3.70 / 4.28	3.51 / 3.97
SEER / SCOP		kWh / kWh	6.1 / 3.9	6.6 / 4.2	6.8 / 4.3	6.6 / 4.3
Pdesign	Cooling @ 35°C	kW	3.5	5	6.8	7.8
	Heating @ -10°C	kW	2.8	4.4	5.4	5.4
Seasonal Energy Label	Cooling / Heating	-	A++ / A	A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating	kWh	201 / 1,005	265 / 1,467	350 / 1,758	419 / 1,758
Dehumidification Rate		l/h	0.4	1.3	1.2	2.2
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	49 / 52	47 / 52	48 / 52	50 / 52
ODU Sound Power Level	Cooling	Rated dB(A)	65	63	65	68
	Liquid	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-15 ~ 50	-15 ~ 50	-20 ~ 50	-20 ~ 50
	Heating	Min. / Max. °C	-20 ~ 18	-20 ~ 18	-20 ~ 18	-20 ~ 18
<b>INDOOR</b>		<b>UM12FH N10</b>	<b>UM18FH N10</b>	<b>UM24FH N20</b>	<b>UM30FH N20</b>	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	150 / 130 / 110	180 / 150 / 130	134 / 101 / 80	134 / 101 / 80
Air Flow Rate	H / M / L	m³/min	16.5 / 14.5 / 13	17.5 / 16 / 14	28 / 24 / 21	28 / 24 / 21
Dimensions	Body	W x H x D mm	900 x 270 x 700	900 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700
Weight	Body	kg	25.4	27.0	39.3	39.3
Sound Pressure Level	Cooling	H / M / L dB(A)	34 / 32 / 30	35 / 34 / 32	34 / 33 / 32	34 / 33 / 32
Sound Power Level	Cooling	Max. dB(A)	56	60	59	59
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.4 / 19.4	Ø25.4 / 19.4	Ø25.4 / 19.4	Ø25.4 / 19.4
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>		<b>UUA1 ULO</b>	<b>UUB1 U20</b>	<b>UUC1 U40</b>		
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker	Min.	A	15	20	25	
Power Supply Cable (Included Earth)		No x mm²	3C x 1.5	3C x 2.5	3C x 2.5	
Dimensions	Net	W x H x D mm	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330	
Weight	Net	kg	33.3	44.5	57.7	
Compressor	Type	-	Twin Rotary	Twin Rotary	Twin Rotary	
	Type	-	R32	R32	R32	
	GWP (Global Warming Potential)	-	675	675	675	
Refrigerant	Precharged Amount	kg	1.0	1.2	1.9	
	t-CO₂eq	-	0.675	0.81	1.283	
	Additional Charge (After 7.5m)	g/m	20	20	40	
Fan	Air Flow Rate	Rated m³/min x No.	28 x 1	50 x 1	58 x 1	
Total Piping Length	Min. / Max. m	5 / 30	5 / 30	5 / 50		
Piping Elevation	IDU - ODU Max. m	30	30	30		

## H-INVERTER (R32)

MID STATIC PRESSURE  
- UM36FH / UM42FH / UM48FH



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Check ongoing validity of certification  
[www.eurovent-certification.com](http://www.eurovent-certification.com)

COMBINATION		36	42	48	
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.8	4.8 / 12.0 / 14.4	5.4 / 13.4 / 16.1
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.7	5.4 / 13.5 / 16.2	6.2 / 15.5 / 17.8
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.26 / 3.39	0.70 / 3.38 / 4.56	0.80 / 4.12 / 5.56
	Heating	Min. / Rated / Max. kW	0.50 / 2.57 / 3.60	0.70 / 3.51 / 4.56	0.80 / 4.18 / 5.24
Running Current	Rated A	10.0	14.9	18.1	
	Heating Rated A	11.3	15.3	18.4	
EER / COP		kWh / kWh	4.20 / 4.20	3.55 / 3.85	3.25 / 3.71
SEER / SCOP		kWh / kWh	6.4 / 4.2	6.2 / 4.1	6.1 / 4.1
Pdesign	Cooling @ 35°C	kW	9.5	12	13.4
	Heating @ -10°C	kW	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	A++ / A+	-
Annual Energy Consumption	Cooling / Heating	kWh	520 / 3,167	677 / 3,244	1,318 / 3,244
Dehumidification Rate		l/h	2.0	4.2	4.8
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50	51 / 52	52 / 53
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	69
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 ~ 52	-20 ~ 52	-20 ~ 52
	Heating	Min. / Max. °C	-25 ~ 18	-25 ~ 18	-25 ~ 18
<b>INDOOR</b>		<b>UM36FH N30</b>	<b>UM42FH N30</b>	<b>UM48FH N30</b>	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	242 / 159 / 124	242 / 159 / 124	242 / 159 / 124
Air Flow Rate	H / M / L	m³/min	40 / 34 / 28	40 / 34 / 28	40 / 34 / 28
Dimensions	Body	W x H x D mm	1,250 x 360 x 700	1,250 x 360 x 700	1,250 x 360 x 700
Weight	Body	kg	44.3	44.3	44.3
Sound Pressure Level	Cooling	H / M / L dB(A)	39 / 38 / 36	39 / 38 / 36	39 / 38 / 36
Sound Power Level	Cooling	Max. dB(A)	65	65	65
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.4 / 19.4	Ø25.4 / 19.4	Ø25.4 / 19.4
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>		<b>UU1 U30</b>			
Power Supply		Ø / V / Hz	1 / 220-240 / 50		
Circuit Breaker	Min.	A	40		
Power Supply Cable (Included Earth)		No x mm²	3C x 6.0		
Dimensions	Net	W x H x D mm	950 x 1,380 x 330		
Weight	Net	kg	85.0		
Compressor	Type	-	Inverter Scroll		
	Type	-	R32		
	GWP (Global Warming Potential)	-	675		
Refrigerant	Precharged Amount	kg	3.0		
	t-CO₂eq	-	2.025		
	Additional Charge (After 7.5m)	g/m	40		
Fan	Air Flow Rate	Rated m³/min x No.	55 x 2		
Total Piping Length	Min. / Max. m	5 / 85			
Piping Elevation	IDU - ODU Max. m	30			

# CEILING CONCEALED DUCT

SINGLE SPLIT

COMMERCIAL

# CEILING CONCEALED DUCT

COMMERCIAL SINGLE SPLIT

## CEILING CONCEALED DUCT

### H-INVERTER (R32)

MID STATIC PRESSURE  
- UM36FH / UM42FH / UM48FH



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### UUID3 U30



COMBINATION		36	42	48	
Capacity	Cooling	Min. / Rated / Max. kW	3.8 ~ 9.5 ~ 12.8	4.8 ~ 12.0 ~ 14.4	5.4 ~ 13.4 ~ 16.1
	Heating	Min. / Rated / Max. kW	4.3 ~ 10.8 ~ 13.7	5.4 ~ 13.5 ~ 16.2	6.2 ~ 15.5 ~ 17.8
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 ~ 2.26 ~ 3.39	0.70 ~ 3.38 ~ 4.56	0.80 ~ 4.12 ~ 5.56
	Heating	Min. / Rated / Max. kW	0.50 ~ 2.57 ~ 3.60	0.70 ~ 3.51 ~ 4.56	0.80 ~ 4.18 ~ 5.24
Running Current	Cooling	Rated A	3.8	5.3	6.5
	Heating	Rated A	4.1	5.5	6.5
EER / COP		kWh / kWh	4.20 / 4.20	3.55 / 3.85	3.25 / 3.71
SEER / SCOP		kWh / kWh	6.4 / 4.2	6.2 / 4.1	6.1 / 4.1
Pdesign	Cooling @ 35°C	kW	9.5	12	13.4
	Heating @ -10°C	kW	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	A++ / A+	-
Annual Energy Consumption	Cooling / Heating	kWh	520 / 3,167	677 / 3,244	1,318 / 3,244
Dehumidification Rate		l/h	2.0	4.2	4.8
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50	51 / 52	52 / 53
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	69
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max. °C	-25 / 18	-25 / 18	-25 / 18
<b>INDOOR</b>		<b>UM36FH N30</b>	<b>UM42FH N30</b>	<b>UM48FH N30</b>	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	242 / 159 / 124	242 / 159 / 124	242 / 159 / 124
Air Flow Rate	H / M / L	m³/min	40 / 34 / 28	40 / 34 / 28	40 / 34 / 28
Dimensions	Body	W x H x D mm	1,250 x 360 x 700	1,250 x 360 x 700	1,250 x 360 x 700
Weight	Body	kg	44.3	44.3	44.3
Sound Pressure Level	Cooling	H / M / L dB(A)	39 / 38 / 36	39 / 38 / 36	39 / 38 / 36
Sound Power Level	Cooling	Max. dB(A)	65	65	65
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.4 / 19.4	Ø25.4 / 19.4	Ø25.4 / 19.4
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>			<b>UUID3 U30</b>		
Power Supply		Ø / V / Hz		3 / 380-415 / 50	
Circuit Breaker	Min.	A		20	
Power Supply Cable (Included Earth)		No x mm³		5C x 2.5	
Dimensions	Net	W x H x D mm		950 x 1,380 x 330	
Weight	Net	kg		85.0	
Compressor	Type	-		Inverter Scroll	
	Type	-		R32	
	GWP (Global Warming Potential)	-		675	
Refrigerant	Precharged Amount	kg		3.0	
	t-CO₂eq	-		2.025	
	Additional Charge (After 7.5m)	g/m		40	
Fan	Air Flow Rate	Rated m³/min x No.		55 x 2	
Total Piping Length	Min. / Max. m			5 / 85	
Piping Elevation	IDU - ODU	Max. m		30	

### STANDARD INVERTER (R32)

LOW STATIC PRESSURE  
- CL09F / CL12F / CL18F / CL24F



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### UUA1 ULO UUB1 U20 UUC1 U40



COMBINATION		9	12	18	24	
Capacity	Cooling	Min. / Rated / Max. kW	1.5 / 2.5 / 3.2	1.5 / 3.4 / 4.7	2.0 / 5.0 / 5.8	2.7 / 6.8 / 7.8
	Heating	Min. / Rated / Max. kW	1.8 / 3.2 / 4.0	1.8 / 4.0 / 4.9	2.3 / 5.8 / 6.7	3.0 / 7.5 / 9.0
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.30 / 0.67 / 0.93	0.33 / 1.05 / 1.84	0.3 / 1.35 / 1.89	0.4 / 2.03 / 2.84
	Heating	Min. / Rated / Max. kW	0.38 / 0.75 / 1.63	0.33 / 1.08 / 1.63	0.4 / 1.77 / 2.48	0.4 / 2.13 / 3.30
Running Current	Cooling	Rated A	3.0	4.7	7.5	9.0
	Heating	Rated A	3.3	4.8	8.3	9.4
EER / COP		kWh / kWh	3.80 / 4.30	3.23 / 3.71	3.71 / 3.28	3.35 / 3.52
SEER / SCOP		kWh / kWh	6.1 / 4.0	5.6 / 3.8	6.1 / 3.9	6.2 / 3.9
Pdesign	Cooling @ 35°C	kW	2.5	3.4	5	6.8
	Heating @ -10°C	kW	2.9	2.9	4.1	5.4
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	A+ / A	A++ / A	A++ / A
Annual Energy Consumption	Cooling / Heating	kWh	143 / 1,015	213 / 1,068	287 / 1,472	384 / 1,938
Dehumidification Rate		l/h	0.2	0.8	1.6	2.5
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	49 / 52	49 / 52	47 / 52	48 / 52
ODU Sound Power Level	Cooling	Rated dB(A)	65	65	63	65
	Liquid	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-15 / 50	-15 / 50	-15 / 50	-20 / 50
	Heating	Min. / Max. °C	-20 / 18	-20 / 18	-20 / 18	-20 / 18
<b>INDOOR</b>			<b>CL09F N50</b>	<b>CL12F N50</b>	<b>CL18F N60</b>	<b>CL24F N30</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	21 / 15 / 13	21 / 15 / 13	100 / 90 / 80	150 / 130 / 110
Air Flow Rate	H / M / L	m³/min	11.5 / 9.5 / 8	11.5 / 9.5 / 8	15 / 12 / 10	20 / 16 / 12
Dimensions	Body	W x H x D mm	900 x 190 x 460	900 x 190 x 460	1,100 x 190 x 460	1,100 x 190 x 700
Weight	Body	kg	18.0	18.0	20.9	26.0
Sound Pressure Level	Cooling	H / M / L dB(A)	35 / 30 / 27	35 / 30 / 27	34 / 31 / 29	39 / 35 / 32
Sound Power Level	Cooling	Max. dB(A)	55	55	56	58
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>				<b>UUA1 ULO</b>	<b>UUB1 U20</b>	<b>UUC1 U40</b>
Power Supply		Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker	Min.	A		15	20	25
Power Supply Cable (Included Earth)		No x mm³		3C x 1.5	3C x 2.5	3C x 2.5
Dimensions	Net	W x H x D mm		770 x 545 x 288	870 x 650 x 330	950 x 834 x 330
Weight	Net	kg		33.3	44.5	57.7
Compressor	Type	-		Twin Rotary	Twin Rotary	Twin Rotary
	Type	-		R32	R32	R32
	GWP (Global Warming Potential)	-		675	675	675
Refrigerant	Precharged Amount	kg		1.0	1.2	1.9
	t-CO₂eq	-		0.675	0.81	1.283
	Additional Charge (After 7.5m)	g/m		20	20	40
Fan	Air Flow Rate	Rated m³/min x No.		28 x 1	50 x 1	58 x 1
Total Piping Length	Min. / Max. m			5 / 30	5 / 30	5 / 50
Piping Elevation	IDU - ODU	Max. m		30	30	30

# CEILING CONCEALED DUCT

COMMERCIAL SINGLE SPLIT

## CEILING CONCEALED DUCT

### STANDARD INVERTER (R32)

MID STATIC PRESSURE  
- CM18F / CM24F / UM30F



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UUB1 U20    UUC1 U40



COMBINATION		<b>18</b>	<b>24</b>	<b>30</b>
Capacity	Cooling	Min. / Rated / Max. kW	2.0 / 5.0 / 5.8	2.7 / 6.8 / 8.0
	Heating	Min. / Rated / Max. kW	2.3 / 5.8 / 6.7	3.0 / 7.5 / 9.0
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.30 / 1.33 / 1.86	0.40 / 1.95 / 2.69
	Heating	Min. / Rated / Max. kW	0.40 / 1.76 / 2.46	0.50 / 2.27 / 3.29
Running Current	Cooling	Rated A	7.4	8.7
	Heating	Rated A	8.3	10.1
EER / COP		kWh / kWh	3.75 / 3.30	3.49 / 3.31
SEER / SCOP		kWh / kWh	6.4 / 4.1	6.6 / 3.9
Pdesign	Cooling @ 35°C	kW	5	6.8
	Heating @ -10°C	kW	4.1	5.4
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	A++ / A
Annual Energy Consumption	Cooling / Heating	kWh	273 / 1,400	361 / 1,938
Dehumidification Rate		l/h	1.2	2.6
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	47 / 52	48 / 52
ODU Sound Power Level	Cooling	Rated dB(A)	63	65
	Liquid	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-15 / 50	-20 / 50
	Heating	Min. / Max. °C	-20 / 18	-20 / 18
<b>INDOOR</b>		<b>CM18F N10</b>	<b>CM24F N10</b>	<b>UM30F N10</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	150 / 130 / 110	180 / 150 / 130
Air Flow Rate	H / M / L	m³/min	16.5 / 14.5 / 13	18 / 16.5 / 14.5
Dimensions	Body	W x H x D mm	900 x 270 x 700	900 x 270 x 700
Weight	Body	kg	24.6	24.6
Sound Pressure Level	Cooling	H / M / L dB(A)	34 / 32 / 30	35 / 34 / 32
Sound Power Level	Cooling	Max. dB(A)	59	60
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.4 / 19.4	Ø25.4 / 19.4
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>		<b>UUB1 U20</b>		<b>UUC1 U40</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker	Min.	A	20	25
Power Supply Cable (Included Earth)		No x mm³	3C x 2.5	3C x 2.5
Dimensions	Net	W x H x D mm	870 x 650 x 330	950 x 834 x 330
Weight	Net	kg	44.5	57.7
Compressor	Type	-	Twin Rotary	Twin Rotary
	Type	-	R32	R32
	GWP (Global Warming Potential)	-	675	675
Refrigerant	Precharged Amount	kg	1.2	1.9
	t-CO₂eq	-	0.81	1.283
	Additional Charge (After 7.5m)	g/m	20	40
Fan	Air Flow Rate	Rated m³/min x No.	50 x 1	58 x 1
Total Piping Length	Min. / Max. m		5 / 30	5 / 50
Piping Elevation	IDU - ODU	Max. m	30	30

### STANDARD INVERTER (R32)

MID STATIC PRESSURE  
- UM36F / UM42F / UM48F / UM60F



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COMBINATION		<b>36</b>	<b>42</b>	<b>48</b>	<b>60</b>
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.5	4.8 / 12.0 / 14.0	5.4 / 13.4 / 15.7
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.4	5.4 / 13.5 / 15.8	6.2 / 15.5 / 17.5
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.50 / 3.80	0.70 / 3.48 / 4.52	0.90 / 4.32 / 5.62
	Heating	Min. / Rated / Max. kW	0.60 / 2.77 / 3.77	0.80 / 3.74 / 4.86	0.90 / 4.31 / 5.26
Running Current	Cooling	Rated A	11.1	15.3	19.0
	Heating	Rated A	12.6	16.4	20.4
EER / COP		kWh / kWh	3.80 / 3.90	3.45 / 3.61	3.10 / 3.60
SEER / SCOP		kWh / kWh	5.80 / 3.90	5.60 / 3.90	5.80 / 4.00
Pdesign	Cooling @ 35°C	kW	9.5	12.0	13.4
	Heating @ -10°C	kW	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A+ / A	A+ / A	- / -
Annual Energy Consumption	Cooling / Heating	kWh	573 / 3,410	750 / 3,410	1,386 / 3,325
Dehumidification Rate		l/h	2.9	4.4	4.8
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50	51 / 52	52 / 53
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	71
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max. °C	-25 / 18	-25 / 18	-25 / 18
<b>INDOOR</b>		<b>UM36F N20</b>	<b>UM42F N20</b>	<b>UM48F N30</b>	<b>UM60F N30</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	183 / 134 / 101	266 / 200 / 145	242 / 159 / 124
Air Flow Rate	H / M / L	m³/min	32 / 28 / 24	38 / 33 / 28	40 / 34 / 28
Dimensions	Body	W x H x D mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700
Weight	Body	kg	38.5	38.5	43.5
Sound Pressure Level	Cooling	H / M / L dB(A)	36 / 34 / 33	38 / 36 / 34	39 / 38 / 36
Sound Power Level	Cooling	Max. dB(A)	60	62	65
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.4 / 19.4	Ø25.4 / 19.4	Ø25.4 / 19.4
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>					<b>UUD1 U30</b>
Power Supply		Ø / V / Hz			1 / 220-240 / 50
Circuit Breaker	Min.	A			40
Power Supply Cable (Included Earth)		No x mm³			3C x 6.0
Dimensions	Net	W x H x D mm			950 x 1,380 x 330
Weight	Net	kg			85
Compressor	Type	-			Inverter Scroll
	Type	-			R32
	GWP (Global Warming Potential)	-			675
Refrigerant	Precharged Amount	kg			3.0
	t-CO₂eq	-			2.025
	Additional Charge (After 7.5m)	g/m			40
Fan	Air Flow Rate	Rated m³/min x No.			55 x 2
Total Piping Length	Min. / Max. m				5 / 85
Piping Elevation	IDU - ODU	Max. m			30

# CEILING CONCEALED DUCT

COMMERCIAL SINGLE SPLIT

## CEILING CONCEALED DUCT

### STANDARD INVERTER (R32)



MID STATIC PRESSURE  
- UM 36F / UM42F / UM48F / UM60F



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COMBINATION		36	42	48	60	
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.5	4.8 / 12.0 / 14.0	5.4 / 13.4 / 15.7	5.8 / 14.6 / 15.8
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.4	5.4 / 13.5 / 15.8	6.2 / 15.5 / 17.5	6.7 / 16.8 / 18.1
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.50 / 3.80	0.70 / 3.48 / 4.52	0.90 / 4.32 / 5.62	1.00 / 4.95 / 5.54
	Heating	Min. / Rated / Max. kW	0.60 / 2.77 / 3.77	0.80 / 3.74 / 4.86	0.90 / 4.31 / 5.26	0.90 / 4.60 / 5.29
Running Current	Cooling	Rated A	4.0	5.5	6.8	7.7
	Heating	Rated A	4.5	5.9	6.5	7.2
EER / COP		kWh / kWh	3.80 / 3.90	3.45 / 3.61	3.10 / 3.60	2.95 / 3.65
SEER / SCOP		kWh / kWh	5.8 / 3.9	5.6 / 3.9	5.8 / 4.0	5.6 / 4.0
Pdesign	Cooling @ 35°C	kW	9.5	12	13.4	14.6
	Heating @ -10°C	kW	9.5	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A+ / A	A+ / A	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	573 / 3,410	750 / 3,410	1,386 / 3,325	1,564 / 3,325
Dehumidification Rate		l/h	2.9	4.4	4.8	4.7
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50	51 / 52	52 / 53	54 / 54
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	69	71
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max. °C	-25 / 18	-25 / 18	-25 / 18	-25 / 18
<b>INDOOR</b>		<b>UM36F N20</b>	<b>UM42F N20</b>	<b>UM48F N30</b>	<b>UM60F N30</b>	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	183 / 134 / 101	266 / 200 / 145	242 / 159 / 124	342 / 287 / 242
Air Flow Rate	H / M / L	m³/min	32 / 28 / 24	38 / 33 / 28	40 / 34 / 28	50 / 45 / 40
Dimensions	Body	W x H x D mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700
Weight	Body	kg	38.5	38.5	43.5	43.5
Sound Pressure Level	Cooling	H / M / L dB(A)	36 / 34 / 33	38 / 36 / 34	39 / 38 / 36	42 / 40 / 39
Sound Power Level	Cooling	Max. dB(A)	60	62	65	66
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.4 / 19.4	Ø25.4 / 19.4	Ø25.4 / 19.4	Ø25.4 / 19.4
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>		<b>UUID3 U30</b>				
Power Supply		Ø / V / Hz	3 / 380-415 / 50			
Circuit Breaker	Min.	A	20			
Power Supply Cable (Included Earth)		No x mm³	5C x 2.5			
Dimensions	Net	W x H x D mm	950 x 1,380 x 330			
Weight	Net	kg	85			
Compressor	Type	-	Inverter Scroll			
	Type	-	R32			
	GWP (Global Warming Potential)	-	675			
Refrigerant	Precharged Amount	kg	3.0			
	t-CO <sub>2</sub> eq	-	2.025			
	Additional Charge (After 7.5m)	g/m	40			
Fan	Air Flow Rate	Rated m³/min x No.	55 x 2			
Total Piping Length		Min. / Max. m	5 / 85			
Piping Elevation	IDU - ODU	Max. m	30			

### UUID3 U30



### COMPACT INVERTER (R32)

LOW STATIC PRESSURE  
- CL18F / CL24F



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COMBINATION		18	24
Capacity	Cooling	Min. / Rated / Max. kW	1.8 / 4.7 / 5.1
	Heating	Min. / Rated / Max. kW	2.1 / 5.2 / 5.7
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.34 / 1.62 / 1.99
	Heating	Min. / Rated / Max. kW	0.30 / 1.53 / 1.99
Running Current	Cooling	Rated A	7.2
	Heating	Rated A	6.8
EER / COP		kWh / kWh	2.90 / 3.40
SEER / SCOP		kWh / kWh	5.1 / 3.8
Pdesign	Cooling @ 35°C	kW	4.7
	Heating @ -10°C	kW	2.7
Seasonal Energy Label	Cooling / Heating	-	A / A
Annual Energy Consumption	Cooling / Heating	kWh	323 / 995
Dehumidification Rate		l/h	1.5
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	49 / 52
ODU Sound Power Level	Cooling	Rated dB(A)	65
	Liquid	mm (inch)	Ø6.35 (1/4)
Piping Connections	Gas	mm (inch)	Ø12.7 (1/2)
	Connections Method	-	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-10 / 50
	Heating	Min. / Max. °C	-10 / 18
<b>INDOOR</b>		<b>CL18F N60</b>	<b>CL24F N30</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	100 / 90 / 80
Air Flow Rate	H / M / L	m³/min	15 / 12 / 10
Dimensions	Body	W x H x D mm	1,100 x 190 x 460
Weight	Body	kg	20.9
Sound Pressure Level	Cooling	H / M / L dB(A)	34 / 31 / 29
Sound Power Level	Cooling	Max. dB(A)	56
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 26.0
<b>OUTDOOR</b>		<b>UUA1 UL0</b>	<b>UUB1 U20</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Circuit Breaker		Min. A	15
Power Supply Cable (Included Earth)		No x mm³	3C x 1.5
Dimensions	Net	W x H x D mm	770 x 545 x 288
Weight	Net	kg	33.3
Compressor	Type	-	Twin Rotary
	Type	-	R32
Refrigerant	GWP (Global Warming Potential)	-	675
	Precharged Amount	kg	1.0
	t-CO <sub>2</sub> eq	-	0.675
	Additional Charge (After 7.5m)	g/m	20
Fan	Air Flow Rate	Rated m³/min x No.	28 x 1
Total Piping Length		Min. / Max. m	5 / 30
Piping Elevation	IDU - ODU	Max. m	30

### UUA1 UL0    UUB1 U20



# CEILING CONCEALED DUCT

COMMERCIAL SINGLE SPLIT

## CEILING CONCEALED DUCT

### COMPACT INVERTER (R32)

MID STATIC PRESSURE  
- CM18F / CM24F / UM30F / UM36F

UUA1 ULO    UUB1 U20    UUC1 U40



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COMBINATION		18	24	30	36		
Capacity	Cooling	Min. / Rated / Max. kW	1.8 / 5.0 / 5.6	2.7 / 6.8 / 7.5	3.0 / 7.5 / 8.3	3.8 / 9.5 / 10.5	
	Heating	Min. / Rated / Max. kW	2.2 / 5.5 / 6.7	3.0 / 7.4 / 8.5	3.2 / 8.0 / 8.8	4.3 / 10.8 / 11.5	
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.35 / 1.67 / 1.92	0.50 / 2.34 / 2.81	0.50 / 2.57 / 3.08	0.60 / 3.16 / 3.86	
	Heating	Min. / Rated / Max. kW	0.32 / 1.58 / 1.77	0.40 / 2.17 / 2.82	0.50 / 2.25 / 2.93	0.60 / 3.03 / 3.48	
Running Current	Cooling	Rated A	7.4	10.3	11.0	14.0	
	Heating	Rated A	7.0	9.7	9.7	13.4	
EER / COP		kWh / kWh	3.00 / 3.50	2.91 / 3.41	2.92 / 3.56	3.01 / 3.57	
SEER / SCOP		kWh / kWh	6.1 / 3.8	5.8 / 4.1	5.6 / 3.9	5.9 / 4.0	
Pdesign	Cooling @ 35°C	kW	5	6.8	7.5	9.5	
	Heating @ -10°C	kW	2.8	4.1	4.3	5.5	
Seasonal Energy Label	Cooling / Heating	-	A++ / A	A+ / A+	A+ / A	A+ / A+	
Annual Energy Consumption	Cooling / Heating	kWh	287 / 1,032	410 / 1,400	469 / 1,544	564 / 1,924	
Dehumidification Rate		l/h	1.2	2.5	2.6	3.2	
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	49 / 52	48 / 53	50 / 54	54 / 56	
ODU Sound Power Level	Cooling	Rated dB(A)	65	65	67	70	
	Liquid	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	
Piping Connections	Gas	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	
	Connections Method	-	Flared	Flared	Flared	Flared	
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-10 / 50	-10 / 48	-10 / 48	-20 / 50	
	Heating	Min. / Max. °C	-10 / 18	-15 / 18	-15 / 18	-15 / 18	
<b>INDOOR</b>		<b>CM18F N10</b>	<b>CM24F N10</b>	<b>UM30F N10</b>	<b>UM36F N20</b>		
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Power Input (IDU)	H / M / L	W	150 / 130 / 110	180 / 150 / 130	220 / 200 / 180	183 / 134 / 101	
Air Flow Rate	H / M / L	m³/min	16.5 / 14.5 / 13	18 / 16.5 / 14.5	22 / 20 / 18	32 / 28 / 24	
Dimensions	Body	W x H x D mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	1,250 x 270 x 700	
Weight	Body	kg	24.6	24.6	26.2	38.5	
Sound Pressure Level	Cooling	H / M / L	dB(A)	34 / 32 / 30	35 / 34 / 32	37 / 35 / 34	36 / 34 / 33
Sound Power Level	Cooling	Max. dB(A)	59	60	62	60	
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.4 / 19.4	Ø25.4 / 19.4	Ø25.4 / 19.4	Ø25.4 / 19.4	
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0	
<b>OUTDOOR</b>		<b>UUA1 ULO</b>	<b>UUB1 U20</b>	<b>UUC1 U40</b>			
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50		
Circuit Breaker	Min.	A	15	20	25		
Power Supply Cable (Included Earth)	No x mm²	3C x 1.5	3C x 2.5	3C x 2.5			
Dimensions	Net	W x H x D mm	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330		
Weight	Net	kg	33.3	44.5	57.7		
Compressor	Type	-	Twin Rotary	Twin Rotary	Twin Rotary		
	Type	-	R32	R32	R32		
	GWP (Global Warming Potential)	-	675	675	675		
Refrigerant	Precharged Amount	kg	1	1.2	1.9		
	t-CO <sub>2</sub> eq	-	0.675	0.81	1.283		
	Additional Charge (After 7.5m)	g/m	20	40	40		
Fan	Air Flow Rate	Rated m³/min x No.	28 x 1	50 x 1	58 x 1		
Total Piping Length	Min. / Max. m	5 / 30	5 / 35	5 / 50			
Piping Elevation	IDU - ODU Max. m	30	30	30			

### STANDARD INVERTER (R410A)

HIGH STATIC PRESSURE  
- UB70 / UB85



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UU70W    UU85W



INDOOR		UB70 N94	UB85 N94
Capacity	Cooling	Min. / Nom. / Max. kW	7.6 / 19.0 / 20.9
	Heating	Min. / Nom. / Max. kW	9.0 / 22.4 / 24.6
Low Temperature Capacity	Heating -7°C	Max. kW	18.0
Power Input (Set)	Cooling	Nom. kW	6.69
	Heating	Nom. kW	6.4
Power Input (Indoor)		Min. / Max. (Nom ESP) W	550 / 760
Running Current	Cooling / Heating	Nom. A	11.5 / 10.7
Power Supply		Ø / V / Hz	1 / 220-240 / 50
EER			2.84
COP			3.50
SEER			4.90
SCOP			3.53
Pdesign (@ -10°C)		kW	13.4
Seasonal Energy Label	Cooling / Heating	-	-
Annual Energy Consumption	Cooling / Heating	kWh	-
	Liquid	mm (inch)	Ø9.52 (3/8)
Piping Connection	Gas	mm (inch)	Ø25.4 (1/1)
	Drain	O.D. / I.D. mm	32 / 25
Air Flow Rate		High / Medium / Low m³/min	70.0 / 65.0 / 60.0
Sound Pressure	Cooling	High / Medium / Low dB(A)	43 / 41 / 40
Sound Power	Cooling	Max. dB(A)	73
Dehumidification Rate		l/h	1.81 (4.2)
Dimensions	Body	W x H x D mm	1,563 x 460 x 688
Net Weight	Body	kg	90.0
External Static Pressure		Min. / Max. mmAq(Pa)	6 / 25 (60 / 250)
<b>OUTDOOR</b>		<b>UU70W U34</b>	<b>UU85W U74</b>
Compressor	Type		Hermetically Sealed Scroll
Airflow Rate	Nom.	m³/min	110
Sound Pressure	Cooling	Nom. dB(A)	55
	Heating	Nom. dB(A)	58
Sound Power	Cooling	Max. dB(A)	75
Dimensions		W x H x D mm	950 x 1,380 x 330
Net Weight		kg	110
	Type	-	R410A
Refrigerant	Charge	g	5,200
	Additional Charge	g/m	70
	GWP	-	2087.5
	TCO2eq	-	10.9
Operation Range (Outdoor)	Cooling	Min. / Max. °C DB	-20 / 48
	Heating	Min. / Max. °C WB	-18 / 18
Power Supply		Ø / V / Hz	3 / 380-415 / 50
Power Supply Cable		No. x mm²	5C x 2.5
Transmission Cable		No. x mm²	4C x 1.0
Circuit Breaker		A	30
Piping Length Total	Min. / Max. m	5 / 75	5 / 75
Piping Elevation Difference	IDU - ODU Max. m	30	30
Piping Connection	Liquid	mm (inch)	Ø9.53 (3/8)
	Gas	mm (inch)	Ø25.4 (1/1)

Note :

1. Due to our policy of innovation some specifications may be changed without notification.
2. Performances are based on the following conditions (It is accordance with EN14511)
  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R410A)

# CEILING SUSPENDED



## Differentiated Design

Modern elegant design with V-shape and black vane is appropriate for any commercial space. It received iF Design Award.



## Powerful Cooling & Heating

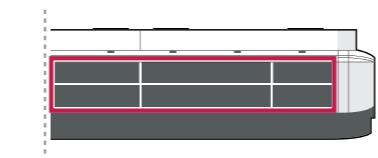
High ceiling mode provides powerful cooling and heating up to 4.2m in height from floor, 15m away from ceiling.



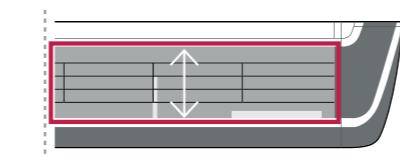
Airflow path and improved heat exchanger's performance.

### Outlet Space

**Conventional**

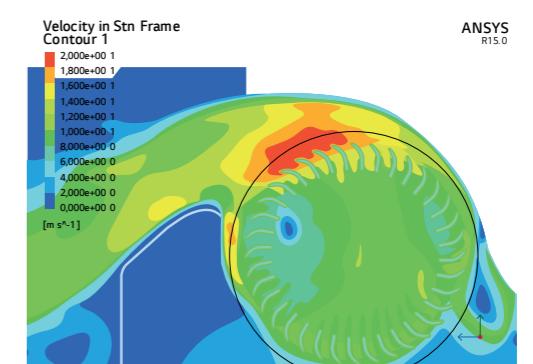
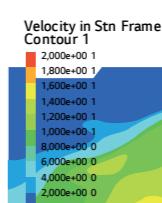


**Current**



**115% ENLARGED**

### Optimized the Airflow Path



**105% IMPROVED**

## One Touch & 2 Piece Filter

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



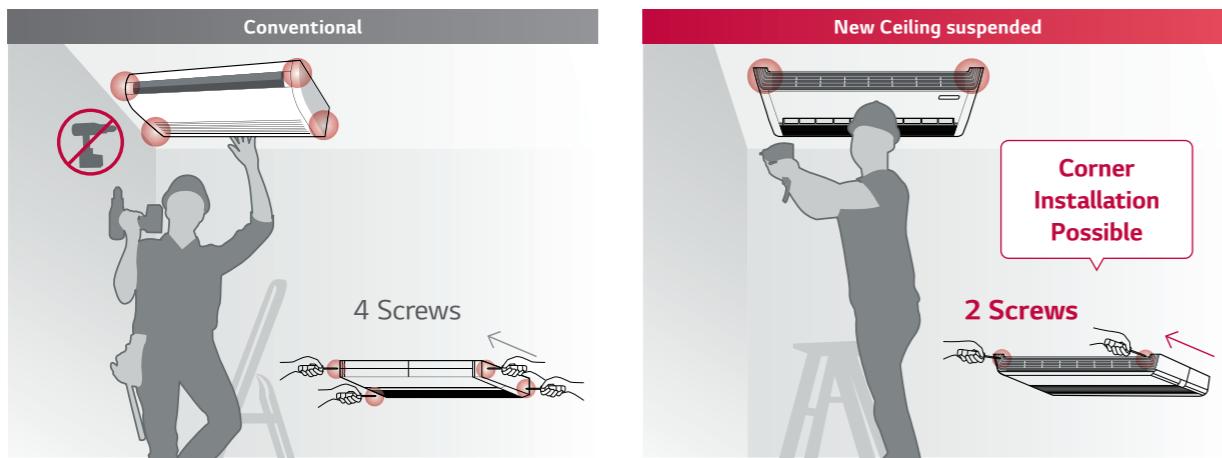
## Two Thermistors Control

Users can purchase a wired remote controller that includes a second thermistor, allowing for temperature checks from multiple locations.



## Installation

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



## H-INVERTER (R32)

UV18FH / UV24FH / UV30FH

UUB1 U20    UUC1 U40



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COMBINATION	18	24	30	
Capacity	Cooling Min. / Rated / Max. kW Heating Min. / Rated / Max. kW	2.0 / 5.0 / 6.0 2.3 / 5.8 / 7.0	2.7 / 6.8 / 8.3 3.0 / 7.5 / 9.4	3.2 / 8.0 / 9.5 3.6 / 8.9 / 10.6
Power Input (Set)	Cooling Min. / Rated / Max. kW Heating Min. / Rated / Max. kW	0.30 / 1.28 / 1.73 0.30 / 1.56 / 2.13	0.40 / 1.80 / 2.50 0.40 / 1.82 / 2.62	0.50 / 2.35 / 3.13 0.50 / 2.39 / 3.27
Running Current	Cooling Rated A Heating Rated A	7.3 8	8 8.1	10.4 10.6
EER / COP		kWh / kWh	3.90 / 3.71	3.77 / 4.11
SEER / SCOP		kWh / kWh	7.6 / 4.4	7.9 / 4.6
Pdesign	Cooling @ 35°C kW Heating @ -10°C kW	5 4.3	6.8 5.4	8 5.4
Seasonal Energy Label	Cooling / Heating -	A++ / A+	A++ / A++	A++ / A++
Annual Energy Consumption	Cooling / Heating kWh	230 / 1,368	301 / 1,644	389 / 1,644
Dehumidification Rate		l/h	1.9	2.0
ODU Sound Pressure Level	Cooling / Heating Rated dB(A) Cooling dB(A)	47 / 52 63	48 / 52 65	50 / 52 68
ODU Sound Power Level		dB(A)	06.35 (1/4)	09.52 (3/8)
Piping Connections	Liquid mm (inch) Gas mm (inch)	012.7 (1/2)	015.88 (5/8)	09.52 (3/8)
Connections Method	-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling Min. / Max. °C Heating Min. / Max. °C	-15 / 50 -20 / 18	-20 / 50 -20 / 18	-20 / 50 -20 / 18
INDOOR	UV18FH N10	UV24FH N20	UV30FH N20	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	
Power Input (IDU)	H / M / L W	17 / 15 / 13	35 / 32 / 27	
Air Flow Rate	H / M / L m³/min	12.5 / 11 / 10	23 / 21 / 19	
Dimensions	Body W x H x D mm	1,200 x 235 x 690	1,600 x 235 x 690	
Weight	Body kg	28.7	37.4	
Sound Pressure Level	Cooling H / M / L dB (A)	41 / 39 / 38	43 / 42 / 40	
Sound Power Level	Cooling Max. dB (A)	55	60	
Piping Connections	Drain (Natural Drainage) O.D. / I.D. mm	Ø25.0 / 20.5	Ø25.0 / 20.5	
	Drain (Using Drain Pump) O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0	
OUTDOOR	UUB1 U20	UUC1 U40		
Power Supply		Ø / V / Hz	1 / 220-240 / 50	
Circuit Breaker		Min. A	20	
Power Supply Cable (Included Earth)		No x mm³	3C x 2.5	
Dimensions	Net W x H x D mm	870 x 650 x 330	950 x 834 x 330	
Weight	Net kg	44.5	57.7	
Compressor	Type -	Twin Rotary	Twin Rotary	
	Type R32	R32		
Refrigerant	GWP (Global Warming Potential) -	675	675	
	Precharged Amount kg	1.2	1.9	
	t-CO₂eq -	0.81	1.283	
Fan	Additional Charge (After 7.5m) g/m	20	40	
Total Piping Length	Air Flow Rate Rated m³/min x No.	50 x 1	58 x 1	
Piping Elevation	Min. / Max. m	5 / 30	5 / 50	
	IDU - ODU Max. m	30	30	

Note :

1. Due to our policy of innovation some specifications may be changed without notification.
2. Performances are based on the following conditions (It is accordance with EN14511)
  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R32)

## CEILING SUSPENDED

## H-INVERTER (R32)

UV36FH / UV42FH



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## UUD1 U30



COMBINATION		36	42
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.8
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.7
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.5 / 2.50 / 3.75
	Heating	Min. / Rated / Max. kW	0.5 / 2.54 / 3.56
Running Current	Cooling	Rated A	11.1
	Heating	Rated A	11.4
EER / COP		kWh / kWh	3.80 / 4.25
SEER / SCOP		kWh / kWh	6.70 / 4.30
Pdesign	Cooling @ 35°C	kW	9.5
	Heating @ -10°C	kW	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+
Annual Energy Consumption	Cooling / Heating	kWh	496 / 3,093
Dehumidification Rate		l/h	3.6
ODU Sound Pressure Level	Cooling / Heating	dB(A)	50 / 50
ODU Sound Power Level	Cooling	Rated dB(A)	66
	Liquid	mm (inch)	Ø95.2 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)
	Connections Method	-	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52
	Heating	Min. / Max. °C	-25 / 18
INDOOR		UV36FH N20	UV42FH N20
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	59 / 40 / 28
Air Flow Rate	H / M / L	m³/min	30 / 25 / 20
Dimensions	Body	W x H x D mm	1,600 x 235 x 690
Weight	Body	kg	37.4
Sound Pressure Level	Cooling	H / M / L dB (A)	48 / 44 / 40
Sound Power Level	Cooling	Max. dB (A)	62
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.0 / 20.5
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0
OUTDOOR		UUD1 U30	
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Circuit Breaker	Min.	A	40
Power Supply Cable (Included Earth)		No x mm³	3C x 6.0
Dimensions	Net	W x H x D mm	950 x 1,380 x 330
Weight	Net	kg	85
Compressor	Type	-	Inverter Scroll
	Type	-	R32
Refrigerant	GWP (Global Warming Potential)	-	675
	Precharged Amount	kg	3.0
	t-CO₂eq	-	2.025
	Additional Charge (After 7.5m)	g/m	40
Fan	Air Flow Rate	Rated m³/min x No.	55 x 2
Total Piping Length	Min. / Max. m		5 / 85
Piping Elevation	IDU - ODU	Max. m	30

Note :

1. Due to our policy of innovation some specifications may be changed without notification.
2. Performances are based on the following conditions (It is accordance with EN14511)
  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R32)

## H-INVERTER (R32)

UV36FH / UV42FH



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COMBINATION		36	42
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.8
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.7
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.50 / 3.75
	Heating	Min. / Rated / Max. kW	0.50 / 2.54 / 3.56
Running Current	Cooling	Rated A	4.0
	Heating	Rated A	4.1
EER / COP		kWh / kWh	3.80 / 4.25
SEER / SCOP		kWh / kWh	6.7 / 4.3
Pdesign	Cooling @ 35°C	kW	9.5
	Heating @ -10°C	kW	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+
Annual Energy Consumption	Cooling / Heating	kWh	496 / 3,093
Dehumidification Rate		l/h	3.6
ODU Sound Pressure Level	Cooling / Heating	dB(A)	50 / 50
ODU Sound Power Level	Cooling	Rated dB(A)	66
	Liquid	mm (inch)	Ø95.2 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)
	Connections Method	-	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52
	Heating	Min. / Max. °C	-25 / 18
INDOOR		UV36FH N20	UV42FH N20
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	59 / 40 / 28
Air Flow Rate	H / M / L	m³/min	30 / 25 / 20
Dimensions	Body	W x H x D mm	1,600 x 235 x 690
Weight	Body	kg	37.4
Sound Pressure Level	Cooling	H / M / L dB (A)	48 / 44 / 40
Sound Power Level	Cooling	Max. dB (A)	62
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.0 / 20.5
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0
OUTDOOR		UUD3 U30	
Power Supply		Ø / V / Hz	3 / 380-415 / 50
Circuit Breaker	Min.	A	20
Power Supply Cable (Included Earth)		No x mm³	5C x 2.5
Dimensions	Net	W x H x D mm	950 x 1,380 x 330
Weight	Net	kg	85
Compressor	Type	-	Inverter Scroll
	Type	-	R32
Refrigerant	GWP (Global Warming Potential)	-	675
	Precharged Amount	kg	3.0
	t-CO₂eq	-	2.025
	Additional Charge (After 7.5m)	g/m	40
Fan	Air Flow Rate	Rated m³/min x No.	55 x 2
Total Piping Length	Min. / Max. m		5 / 85
Piping Elevation	IDU - ODU	Max. m	30

Note :

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2. Performances are based on the following conditions (It is accordance with EN14511)
  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R32)

## CEILING SUSPENDED

UUD3 U30



## CEILING SUSPENDED

## STANDARD INVERTER (R32)

UV18F / UV24F / UV30F



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UUB1 U20 UUC1 U40



COMBINATION		18	24	30
Capacity	Cooling	Min. / Rated / Max. kW	2.0 / 5.0 / 5.8	2.7 / 6.7 / 8.0
	Heating	Min. / Rated / Max. kW	2.3 / 5.8 / 6.7	3.0 / 7.5 / 9.0
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.30 / 1.33 / 1.86	0.40 / 1.99 / 2.69
	Heating	Min. / Rated / Max. kW	0.40 / 1.76 / 2.46	0.40 / 2.2 / 3.08
Running Current	Cooling	Rated A	7.5	8.8
	Heating	Rated A	8.3	9.8
EER / COP		kWh / kWh	3.75 / 3.29	3.37 / 3.41
SEER / SCOP		kWh / kWh	6.6 / 4.3	7.2 / 4.2
Pdesign	Cooling @ 35°C	kW	5	6.7
	Heating @ -10°C	kW	4.2	4.9
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating	kWh	265 / 1,368	326 / 1,633
Dehumidification Rate		l/h	1.8	2.7
ODU Sound Pressure Level	Cooling / Heating	dB(A)	47 / 52	48 / 52
ODU Sound Power Level	Cooling	Rated dB(A)	63	65
	Liquid	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-15 / 50	-20 / 50
	Heating	Min. / Max. °C	-20 / 18	-20 / 18
INDOOR		UV18F N10	UV24F N10	UV30F N10
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	17 / 15 / 13	33 / 26 / 19
Air Flow Rate	H / M / L	m³/min	13 / 12 / 11	16 / 15 / 14
Dimensions	Body	W x H x D mm	1,200 x 235 x 690	1,200 x 235 x 690
Weight	Body	kg	27.3	28
Sound Pressure Level	Cooling	H / M / L dB (A)	42 / 40 / 39	46 / 45 / 43
Sound Power Level	Cooling	Max dB (A)	55	61
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.0 / 20.5	Ø25.0 / 20.5
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0
OUTDOOR		UUB1 U20	UUC1 U40	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker	Min	A	20	25
Power Supply Cable (Included Earth)		No x mm³	3C x 2.5	3C x 2.5
Dimensions	Net	W x H x D mm	870 x 650 x 330	950 x 834 x 330
Weight	Net	kg	44.5	57.7
Compressor	Type	-	Twin Rotary	Twin Rotary
	Type	-	R32	R32
Refrigerant	GWP (Global Warming Potential)	-	675	675
	Precharged Amount	kg	1.2	1.9
	t-CO₂eq	-	0.81	1.283
	Additional Charge (After 7.5m)	g/m	20	40
Fan	Air Flow Rate	Rated m³/min x No.	50 x 1	58 x 1
Total Piping Length	Min. / Max. m	5 / 30	5 / 50	
Piping Elevation	IDU - ODU	Max m	30	30

## Note :

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  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation
4. This product contains fluorinated greenhouse gases (R32)

## STANDARD INVERTER (R32)

UV36F / UV42F / UV48F / UV60F



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UUD1 U30



COMBINATION		36	42	48	60
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.5	4.8 / 12.1 / 14.2	5.4 / 13.4 / 15.7
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.4	5.4 / 13.5 / 15.8	6.2 / 15.5 / 17.5
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.65 / 4.03	0.80 / 3.90 / 5.07	0.90 / 4.50 / 5.85
	Heating	Min. / Rated / Max. kW	0.50 / 2.60 / 3.54	0.80 / 3.75 / 4.88	0.90 / 4.77 / 5.82
Running Current	Cooling	Rated A	11.7	17.0	19.7
	Heating	Rated A	11.4	16.5	20.6
EER / COP		kWh / kWh	3.59 / 4.15	3.10 / 3.60	2.98 / 3.25
SEER / SCOP		kWh / kWh	6.3 / 4.1	6.3 / 4.1	5.9 / 4.1
Pdesign	Cooling @ 35°C	kW	9.5	12.1	13.4
	Heating @ -10°C	kW	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	528 / 3,244	1,152 / 3,244	1,363 / 3,244
Dehumidification Rate		l/h	3.6	5.5	6.3
ODU Sound Pressure Level	Cooling / Heating	dB(A)	50 / 50	51 / 52	52 / 53
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	71
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max. °C	-25 / 18	-25 / 18	-25 / 18
INDOOR		UV36F N20	UV42F N20	UV48F N20	UV60F N20
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	50 / 35 / 28	50 / 35 / 28	59 / 40 / 28
Air Flow Rate	H / M / L	m³/min	28 / 24 / 20	28 / 24 / 20	30 / 25 / 20
Dimensions	Body	W x H x D mm	1,600 x 235 x 690	1,600 x 235 x 690	1,600 x 235 x 690
Weight	Body	kg	36.7	36.7	36.7
Sound Pressure Level	Cooling	H / M / L dB (A)	46 / 43 / 40	46 / 43 / 40	48 / 44 / 40
Sound Power Level	Cooling	Max dB (A)	62	62	63
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.0 / 20.5	Ø25.0 / 20.5	Ø25.0 / 20.5
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
OUTDOOR		UUD1 U30			
Power Supply		Ø / V / Hz		1 / 220-240 / 50	
Circuit Breaker	Min	A		40	
Power Supply Cable (Included Earth)		No x mm³		3C x 6.0	
Dimensions	Net	W x H x D mm		950 x 1,380 x 330	
Weight	Net	kg		85	
Compressor	Type	-		Inverter Scroll	
	Type	-		R32	
Refrigerant	GWP (Global Warming Potential)	-		675	
	Precharged Amount	kg		3.0	
	t-CO₂eq	-		2.025	
	Additional Charge (After 7.5m)	g/m		40	
Fan	Air Flow Rate	Rated m³/min x No.		55 x 2	
Total Piping Length	Min. / Max. m			5 / 85	
Piping Elevation	IDU - ODU	Max m		30	

## Note :

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  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation
4. This product contains fluorinated greenhouse gases (R32)

## CEILING SUSPENDED

## STANDARD INVERTER (R32)

UV36F / UV42F / UV48F / UV60F



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UUD3 U30



COMBINATION		36	42	48	60
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.5	4.8 / 12.1 / 14.2	5.4 / 13.4 / 15.7
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.4	5.4 / 13.5 / 15.8	6.2 / 15.5 / 17.5
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.65 / 4.03	0.80 / 3.90 / 5.07	0.90 / 4.50 / 5.85
	Heating	Min. / Rated / Max. kW	0.50 / 2.60 / 3.54	0.80 / 3.75 / 4.88	0.90 / 4.77 / 5.82
Running Current	Cooling	Rated A	4.2	6.1	7.0
	Heating	Rated A	4.1	5.9	7.3
EER / COP		kWh / kWh	3.59 / 4.15	3.10 / 3.60	2.98 / 3.25
SEER / SCOP		kWh / kWh	6.3 / 4.1	6.3 / 4.1	5.9 / 4.1
Pdesign	Cooling @ 35°C	kW	9.5	12.1	13.4
	Heating @ -10°C	kW	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	528 / 3,244	1,152 / 3,244	1,363 / 3,244
Dehumidification Rate		l/h	3.6	5.5	6.3
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50	51 / 52	52 / 53
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	69
	Liquid	mm (inch)	Ø95.2 (3/8)	Ø95.2 (3/8)	Ø95.2 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max. °C	-25 / 18	-25 / 18	-25 / 18
INDOOR		UV36F N20	UV42F N20	UV48F N20	UV60F N20
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	50 / 35 / 28	50 / 35 / 28	59 / 40 / 28
Air Flow Rate	H / M / L	m³/min	28 / 24 / 20	28 / 24 / 20	30 / 25 / 20
Dimensions	Body	W x H x D mm	1,600 x 235 x 690	1,600 x 235 x 690	1,600 x 235 x 690
Weight	Body	kg	36.7	36.7	36.7
Sound Pressure Level	Cooling	H / M / L dB (A)	46 / 43 / 40	46 / 43 / 40	48 / 44 / 40
Sound Power Level	Cooling	Max. dB (A)	62	62	63
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.0 / 20.5	Ø25.0 / 20.5	Ø25.0 / 20.5
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
OUTDOOR		UUD3 U30			
Power Supply		Ø / V / Hz	3 / 380-415 / 50		
Circuit Breaker	Min.	A	20		
Power Supply Cable (Included Earth)		No x mm³	5C x 2.5		
Dimensions	Net	W x H x D mm	950 x 1,380 x 330		
Weight	Net	kg	85		
Compressor	Type	-	Inverter Scroll		
	Type	-	R32		
Refrigerant	GWP (Global Warming Potential)	-	675		
	Precharged Amount	kg	3.0		
	t-CO₂eq	-	2.025		
	Additional Charge (After 7.5m)	g/m	40		
Fan	Air Flow Rate	Rated m³/min x No.	55 x 2		
Total Piping Length	Min. / Max. m		5 / 85		
Piping Elevation	IDU - ODU	Max. m	30		

Note :

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  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation
4. This product contains fluorinated greenhouse gases (R32)

## COMPACT INVERTER (R32)

UV18F / UV24F / UV30F / UV36F



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UUA1 ULO UUB1 U20 UUC1 U40



COMBINATION		18	24	30	36
Capacity	Cooling	Min. / Rated / Max. kW	1.8 / 5.0 / 5.5	2.7 / 6.8 / 7.5	3.0 / 7.5 / 8.3
	Heating	Min. / Rated / Max. kW	2.2 / 5.3 / 5.8	2.9 / 7.3 / 8.4	3.2 / 8.0 / 8.8
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.32 / 1.62 / 1.93	0.40 / 2.06 / 2.47	0.50 / 2.42 / 2.90
	Heating	Min. / Rated / Max. kW	0.30 / 1.44 / 1.86	0.40 / 2.23 / 2.90	0.50 / 2.48 / 3.22
Running Current	Cooling	Rated A	7.2	9.0	10.6
	Heating	Rated A	6.4	9.7	10.8
EER / COP		kWh / kWh	3.10 / 3.70	3.30 / 3.28	3.10 / 3.23
SEER / SCOP		kWh / kWh	6.6 / 4.6	6.6 / 4.2	6.1 / 4.2
Pdesign	Cooling @ 35°C	kW	5	6.8	7.5
	Heating @ -10°C	kW	2.9	4.3	4.4
Seasonal Energy Label	Cooling / Heating	-	A++ / A++	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating	kWh	265 / 883	361 / 1,433	398 / 1,433
Dehumidification Rate		l/h	1.7	2.4	2.8
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	49 / 52	48 / 53	50 / 54
ODU Sound Power Level	Cooling	Rated dB(A)	65	65	70
	Liquid	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-10 / 50	-10 / 48	-10 / 50
	Heating	Min. / Max. °C	-10 / 18	-15 / 18	-15 / 18
INDOOR		UV18F N10	UV24F N10	UV30F N10	UV36F N20
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	17 / 15 / 13	33 / 26 / 19	47 / 40 / 33
Air Flow Rate	H / M / L	m³/min	13 / 12 / 11	16 / 15 / 14	19 / 17.5 / 16
Dimensions	Body	W x H x D mm	1,200 x 235 x 690	1,200 x 235 x 690	1,200 x 235 x 690
Weight	Body	kg	27.3	28	28
Sound Pressure Level	Cooling	H / M / L dB (A)	42 / 40 / 39	46 / 45 / 43	46 / 44 / 43
Sound Power Level	Cooling	Max. dB (A)	55	61	62
	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.0 / 20.5	Ø25.0 / 20.5	Ø25.0 / 20.5
Piping Connections	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
OUTDOOR		UUA1 ULO	UUB1 U20	UUC1 U40	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker	Min.	A	15	20	25
Power Supply Cable (Included Earth)		No x mm³	3C x 1.5	3C x 2.5	3C x 2.5
Dimensions	Net	W x H x D mm	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330
Weight	Net	kg	33.3	44.5	57.7
Compressor	Type	-	Twin Rotary	Twin Rotary	Twin Rotary
	Type	-	R32	R32	R32
Refrigerant	GWP (Global Warming Potential)	-	675	675	675
	Precharged Amount	kg	1.0	1.2	1.9
	t-CO₂eq	-	0.675	0.81	1.283
	Additional Charge (After 7.5m)	g/m	20	40	40
Fan	Air Flow Rate	Rated m³/min x No.	28 x 1	50 x 1	58 x 1
Total Piping Length	Min. / Max. m		5 / 30	5 / 35	5 / 50
Piping Elevation	IDU - ODU	Max. m	30	30	30

Note :

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  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is

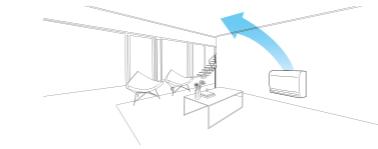
# CONSOLE



## Optimized Air Flow for Cooling & Heating

During cooling operation, the vane adjusts upwards to direct air flow toward the ceiling. During heating operation, the van directs the air flow toward the floor to balance out the room temperature. A wireless controller is included with the indoor console unit.

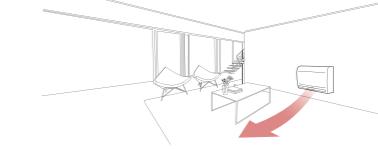
### Cooling



### Heating (Normal)



### Heating (Floor Heating Mode)



## Quick Floor Heating

Console air conditioners portray high speed and powerful performance. Using the floor heating mode, console air conditioners provide floor heating at a faster pace in order to reach desired temperature more quickly.

		Company A	Electric Heater	LG	LG Floor Heating Mode
27°C	Vertical				
15°C	Horizontal				
Lead Time for Heating (13°C ~ 21°C)	Vertical	12 minutes 30 seconds	50 minutes	9 minutes 30 seconds	8 minutes 40 seconds

※ Test Condition : Target Temp 23°C, Indoor Room : 13°C~, Outdoor Room : 7°C

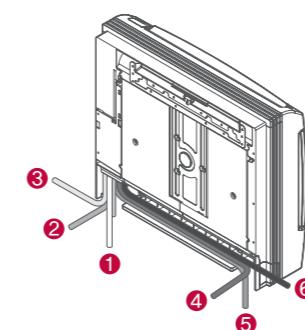
## 5-Step Vane Control

There are 5 different stages to control air flow direction.

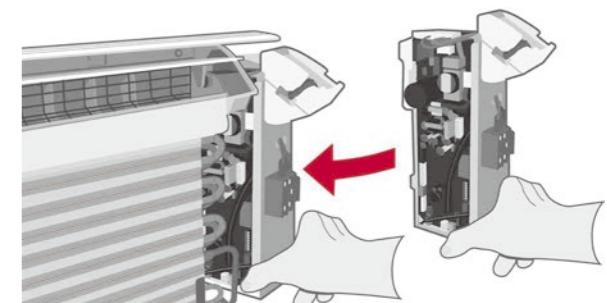


## Easy Installation and Service

### 6 Different Ways to Install Piping



### Easy Slide-type PCB



**STANDARD INVERTER (R32)**

UQ09F / UQ12F / UQ18F



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UUA1 ULO UUB1 U20



COMBINATION		9	12	18	
Capacity	Cooling	Min. / Rated / Max. kW	1.5 / 2.6 / 3.4	1.5 / 3.5 / 4.0	2.0 / 5.0 / 5.8
Power Input (Set)	Heating	Min. / Rated / Max. kW	1.6 / 3.1 / 3.9	1.6 / 4.0 / 4.3	2.0 / 4.9 / 5.4
Running Current	Cooling	Rated A	2.9	4.4	8.3
EER / COP	Heating	Rated A	3.3	4.7	8.0
SEER / SCOP		kWh / kWh	4.00 / 4.20	3.50 / 3.80	2.85 / 3.14
Pdesign	Cooling @ 35°C	kW	2.6	3.5	5
	Heating @ -10°C	kW	2.8	3	3.8
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	A++ / A+	A+ / A
Annual Energy Consumption	Cooling / Heating	kWh	140 / 980	191 / 1,050	302 / 1,396
Dehumidification Rate		l/h	0.7	1.3	2.4
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	49 / 52	49 / 52	47 / 52
ODU Sound Power Level	Cooling	Rated dB(A)	65	65	63
Piping Connections	Liquid	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
Connections Method	-		Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-15 / 50	-15 / 50	-15 / 50
	Heating	Min. / Max. °C	-20 / 18	-20 / 18	-20 / 18
INDOOR		UQ09F NAO	UQ12F NAO	UQ18F NAO	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	37 / 30 / 25	37 / 30 / 25	44 / 39 / 35
Air Flow Rate	H / M / L	m³/min	8.5 / 6.7 / 5.0	8.5 / 6.7 / 5.0	10.1 / 8.6 / 7.2
Dimensions	Body	W x H x D mm	700 x 600 x 210	700 x 600 x 210	700 x 600 x 210
Weight	Body	kg	16.3	16.3	16.3
Sound Pressure Level	Cooling	H / M / L dB(A)	38 / 32 / 27	38 / 32 / 27	44 / 39 / 35
Sound Power Level	Cooling	Max. dB(A)	59	59	60
Piping Connections	Drain	O.D. / I.D. mm	Ø16.7 / 12.2	Ø16.7 / 12.2	Ø16.7 / 12.2
OUTDOOR		UUA1 ULO	UUB1 U20		
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker	Min.	A	15	20	
Power Supply Cable (Included Earth)	No x mm³		3C x 1.5	3C x 2.5	
Dimensions	Net	W x H x D mm	770 x 545 x 288	870 x 650 x 330	
Weight	Net	kg	33.3	44.5	
Compressor	Type		Twin Rotary	Twin Rotary	
	Type		R32	R32	
Refrigerant	GWP (Global Warming Potential)	-	675	675	
	Precharged Amount	kg	1.0	1.2	
	t-CO <sub>2</sub> eq	-	0.675	0.81	
Fan	Additional Charge (After 7.5m)	g/m	20	20	
Total Piping Length	Air Flow Rate	Rated m³/min x No.	28 x 1	50 x 1	
	Min. / Max.	m	5 / 30	5 / 30	
Piping Elevation	IDU - ODU	Max. m	30	30	

## Note :

1. Due to our policy of innovation some specifications may be changed without notification.
2. Performances are based on the following conditions (It is accordance with EN14511)
  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R32)

**FLOOR STANDING**

## Stylish Design

The new LG floor standing air conditioner which is Red Dot design award winner 2013, is ideal for modern interiors in your home or office.



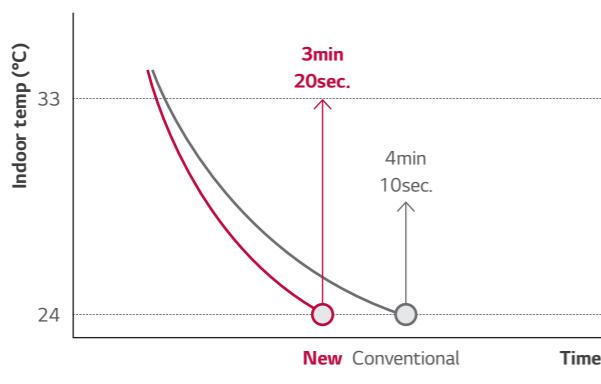
reddot design award  
winner 2013



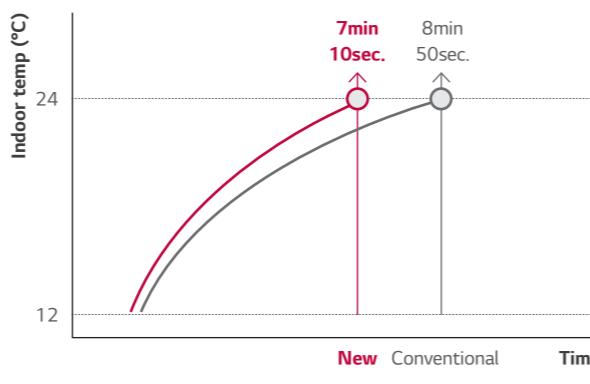
## Quick Response

Offering powerful cooling, the commercial air conditioning system can reach a set temperature in a shorter period of time. Meanwhile, the Power Heating function provides the optimal airflow angle, guaranteeing a faster heating performance.

### Cooling

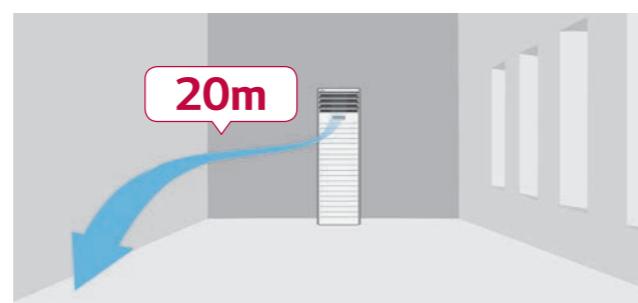


### Heating



## Powerful Air Flow

The new LG floor standing air conditioner is efficient for using in large areas due to its powerful cooling and heating operation. The powerful air speed and volume means the air flow can reach up to 20m away from the air conditioner.



## STANDARD INVERTER (R410A)

### UP48



LG participates in the ECP programme for EUROVENT AC program.  
Check ongoing validity of certification  
[www.eurovent-certification.com](http://www.eurovent-certification.com)

### INDOOR

	UP48 NT2		
Capacity	Cooling	Min. / Nom. / Max. kW	6.0 / 13.4 / 15.2
	Heating	Min. / Nom. / Max. kW	6.0 / 15.5 / 17.1
Low Temperature Capacity	Heating -7°C	Max. kW	16.0
Power Input (Set)	Cooling	Nom. kW	4.2
	Heating	Nom. kW	4.5
Power Input (Indoor)		Nom. W	200
Running Current	Cooling / Heating	Nom. A	18.1 / 19.5
Power Supply		Ø / V / Hz	1 / 220-240 / 50
EER			3.21
COP			3.41
SEER			5.05
SCOP			3.51
Pdesign (@ -10°C)		kW	11.5
Seasonal Energy Label	Cooling / Heating		-
Annual Energy Consumption	Cooling / Heating	kWh	-
Piping Connection	Liquid	mm (inch)	Ø9.52 (3/8)
	Gas	mm (inch)	Ø15.88 (5/8)
	Drain	O.D. / I.D. mm	32 / 25
Air Flow Rate	High / Medium / Low	m³/min	31 / 27 / 23
Sound Pressure	Cooling	High / Medium / Low dB(A)	52 / 49 / 45
Sound Power	Cooling	Max. dB(A)	65
Dehumidification Rate		l/h	5.0
Dimensions	Body	W x H x D mm	590 x 1,840 x 460
Net Weight	Body	kg	50.0
OUTDOOR	UU48W U32	UU49W U32	
Compressor	Type		Twin Rotary
Airflow Rate	Nom	m³/min	110
Sound Pressure	Cooling	dB(A)	52
	Heating	dB(A)	54
Sound Power	Cooling	Max	72
Dimensions	W x H x D	mm	950 x 1,380 x 330
Net Weight	kg		92.0
Refrigerant	Type		R410A
	Charge	g	3,400
	Additional Charge	g/m	40
	GWP	-	2087.5
	TCO <sub>2</sub> eq	-	7.1
Operation Range (Outdoor)	Cooling	Min. / Max. °C DB	-15 / 48
	Heating	Min. / Max. °C WB	-18 / 18
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Power Supply Cable	No. x mm <sup>2</sup>		3C x 5.0
Transmission Cable	No. x mm <sup>2</sup>		4C x 0.75
Circuit Breaker	A		20
Piping Length Total	Min. / Max.	m	5 / 75
Piping Elevation Difference	IDU - ODU Max.	m	30
Piping Connection	Liquid	mm (inch)	Ø9.52 (3/8)
	Gas	mm (inch)	Ø15.88 (5/8)

### Note :

1. Due to our policy of innovation some specifications may be changed without notification.
2. Performances are based on the following conditions (It is accordance with EN14511)
  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R410A)

## UU48W U32 UU49W U32



# WALL MOUNTED



## Saving Operation Cost

### High Energy Efficiency

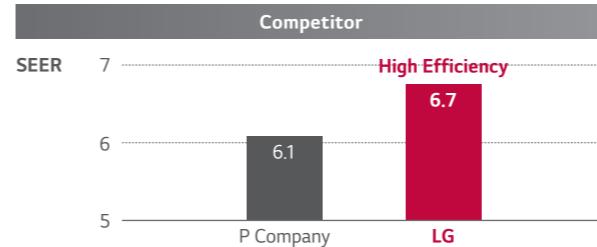


The advanced technologies of LG achieve lower energy consumption, especially in cooling as can be seen from the SEER class given according to ErP Regulations.

Server room need to be operated continuously.

That's why server room owners want to use high energy efficient air conditioning.

LG solution saves annual operation cost for server room due to high SEER.



※ P Company 7.1kW Solution / Outdoor unit : 7.1kW

Indoor unit : 7.1kW Wall mounted unit

※ Performances are based on the following conditions :

- Cooling : Indoor Temp. 27°CDB / 19°CWB, Outdoor Temp. 35°CDB / 24°CWB
- Heating : Indoor Temp. 20°CDB / 15°CWB, Outdoor Temp. 7°CDB / 6°CWB
- Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

**LG Server Room Solution**

	2.5kW	3.4kW	5.0kW	6.8kW	8.0kW	9.5kW
SEER	7.0 (A++)	6.6 (A++)	6.8 (A++)	6.7 (A++)	7.0 (A++)	6.1 (A++)
SCOP					4.3 (A+)	3.85 (A+)

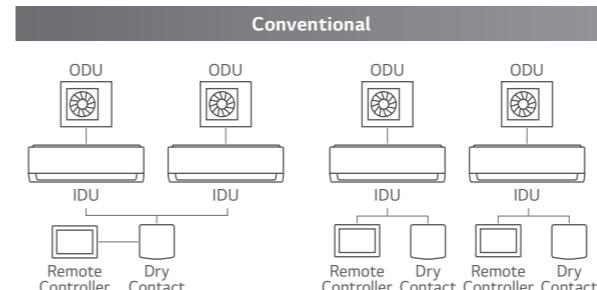
**SEER class (ErP regulation)**

A+++	SEER≥8.5	B	4.6 ≤ SEER < 5.1
A++	6.1 ≤ SEER < 8.5	C	4.1 ≤ SEER < 4.6
A+	5.6 ≤ SEER < 6.1	D	3.6 ≤ SEER < 4.1
A	5.1 ≤ SEER < 5.6		

## Easy Installation

### Simplified connection

For small server rooms, LG solution has simple system with only one remote controller. It doesn't need additional control accessories.



#### • Higher product cost

Conventional system needs dry contact and 3rd party control individual remote controller(s).

#### • Higher installation cost

Need less labor and time for design, installation, cabling and test.

#### • Design & Installation difficulties

It is difficult to make if you need to control more indoor units.



#### • Lower product cost

Only LG remote controller needed for max.4 ODUs and IDUs.

#### • Lower installation cost

Need less labor and time for design, installation, cabling and test.

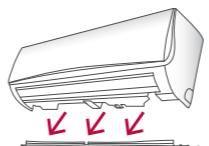
#### • Easy Design & Installation

It provides easy design and installation because it has simple system with LG controller even in case of more number of ODUs and IDUs(Max.4).

※ MJ09PC, MJ12PC, MJ18PC, MJ24PC combinations are only available

### Detachable Bottom Cover

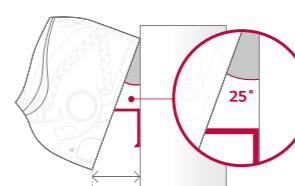
The bottom cover is detachable when needed, making installation easier. Disassembly or additional support of the unit is unnecessary. Installation can be completed by one individual with LG's patented support tool.



※ This contents of page will be updated later. (Saving operation cost / Easy installation)

### Installation Support Clip

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



# Stable & Reliable Operation

## Duty Rotation

Operates more than 2 sets of indoor units alternatively at every set time of operation interval. Rotation interval can be set from 1h to 999h freely.



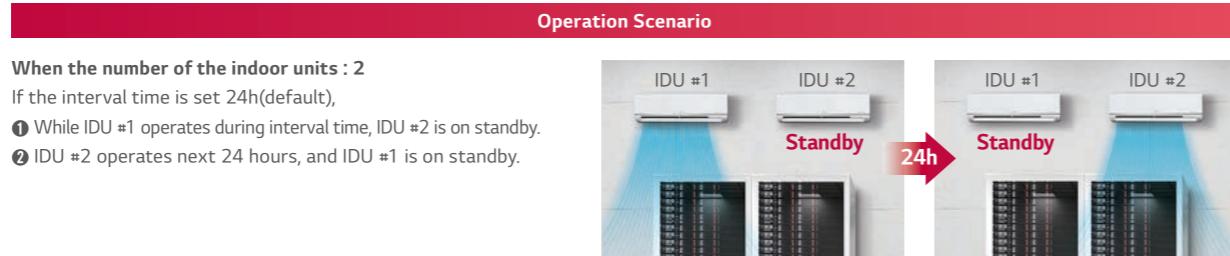
### Air Conditioners' Overworking

- Reducing air conditioner's life time
- Reducing compressor's life expectancy
- The service cost may increase due to air conditioner's overworking



### Stable & Safe Operation

- Stable operation due to indoor units take turns
- Less breakdown and keeping server room operation
- Increase air conditioner's life expectancy
- Rotation interval can be set from 1h to 999h freely.



### When the number of the indoor units : 2

- If the interval time is set 24h(default),  
 ① While IDU #1 operates during interval time, IDU #2 is on standby.  
 ② IDU #2 operates next 24 hours, and IDU #1 is on standby.



### Server can be Shut Down

- Server room overheated and server can be shut down.
- Probability of increased service cost
- Need manual monitoring and operation for failure



### Stable & Safe Operation

- Stable operation because the operation error can be covered by failure back-up operation
- Continue server operations and decrease risk
- Protect server from overheating
- Less manual work



### When the number of the indoor units : 2

- ① When duty rotation is enabled, IDU #1 is in operation and IDU #2 is on standby.  
 ② If an error occurs on IDU #1, standby unit starts operation.  
 ③ After the error is cleared, IDU #2 goes back to standby.

## Capacity Back-up

When the difference between the cooling set temperature and the current room temperature is higher than the set temperature difference of capacity back-up, the standby unit operates. When the temperature difference reaches to the set temperature difference, it goes back to the normal duty rotation.



### Server can be Overheated

- Sometimes server room can be overheated because of server overload
- Server can be shut down when they overheat continuously
- Air conditioners overload
- Need manual controls for additional cooling



### Stable & Safe Operation

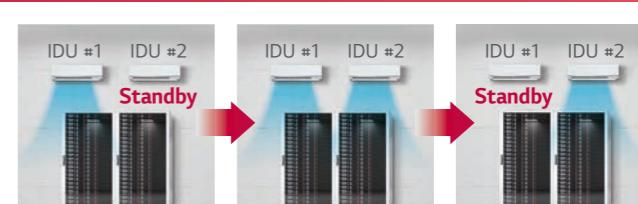
- Stable operation due to the over capacity by back-up operation
- Prevent air conditioners from overload
- Protect server from overheating
- No need for manual controls as they protect from overheating automatically



### When the number of the indoor units : 2

The set temperature difference is A, and the difference between the cooling set temperature and the current room temperature is B,

- ① When duty rotation is enabled, IDU #1 is in operation and IDU #2 is on standby.  
 ② If B is higher than A, the standby unit starts operation.  
 ③ When B goes down and remains below A for some time, The backup unit stops and goes back to standby mode.

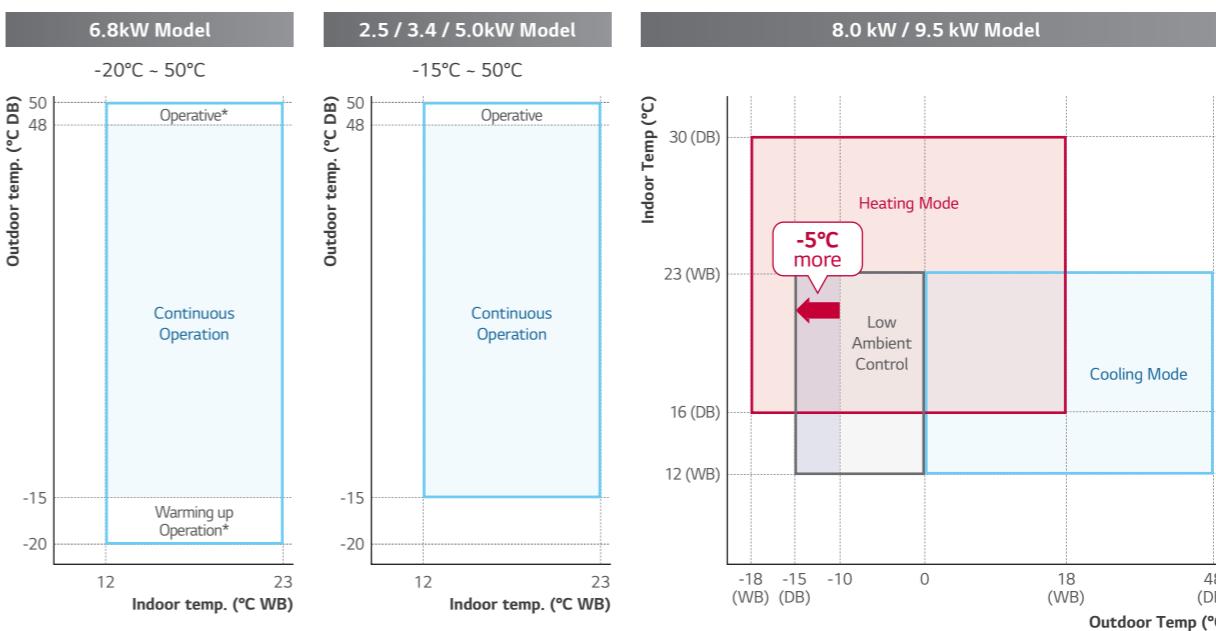


- If cooling set temperature is 22°C and the set temperature difference is 4°C.  
 When current temperature goes above 26°C, the standby unit starts operation.  
 If current temperature drops and remains below 26 °C for some time, the backup unit stops.

※ Duty rotation, capacity back-up, failure back-up function will be available from 2021.2Q - Applied models : MJ09PC, MJ12PC, MJ18PC, MJ24PC only

## Wide Operational Range

In case of the server room, continuous cooling is required all year round, and outdoor unit must be stable in the outdoor harsh cold temperature. LG Single split has wide operation range in cooling down continuously from -15°C and up to 48°C.



## WALL MOUNTED

**STANDARD INVERTER (R32)****MJ09PC / MJ12PC**

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Check ongoing validity of certification  
[www.eurovent-certification.com](http://www.eurovent-certification.com)

**UUA1 ULO**

COMBINATION	9		12	
Capacity	Cooling	Min. / Rated / Max. kW	1.50 / 2.50 / 3.20	1.50 / 3.50 / 4.00
	Heating	Min. / Rated / Max. kW	1.80 / 3.20 / 3.70	1.80 / 4.00 / 4.40
Power Input	Cooling	Min. / Rated / Max. kW	0.30 / 0.58 / 0.84	0.33 / 0.97 / 1.48
	Heating	Min. / Rated / Max. kW	0.30 / 0.71 / 0.85	0.33 / 1.00 / 1.48
Running Current	Cooling	Rated A	2.60	4.40
	Heating	Rated A	3.20	4.50
EER / COP		kWh / kWh	4.30 / 4.50	3.60 / 4.00
SEER / SCOP		kWh / kWh	7.00 / 4.00	6.60 / 4.00
P Design	Cooling @ 35°C	kW	2.5	3.5
	Heating @ -10°C	kW	2.8	2.8
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating	kWh	125 / 980	186 / 980
Dehumidification Rate		ℓ/h	1.90	1.90
ODU Sound Pressure Level	Cooling	Rated dB(A)	49	49
	Heating	Rated dB(A)	52	52
ODU Sound Power Level	Cooling	Rated dB(A)	65	65
	Heating	Rated dB(A)	-	-
Piping Connections	Liquid	Outer Dia. mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas	Outer Dia. mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Connections Method		Flare	Flare
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-15 / 50	-15 / 50
	Heating	Min. / Max. °C	-20 / 18	-20 / 18
<b>INDOOR</b>	<b>MJ09PC NSJ</b>		<b>MJ12PC NSJ</b>	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Power Input	Min. / Nom. / Max. W	11 / 18 / 30	11 / 19 / 30	
Air Flow Rate	H / M / L	m³/min	7.6 / 6.2 / 4.8	8.0 / 6.6 / 5.5
Dimensions	Body	W x H x D mm	818 x 316 x 189	818 x 316 x 189
Weight	Body	kg (lbs)	8.2 (18.1)	8.2 (18.1)
	Shipping	kg (lbs)	10.2 (22.5)	10.2 (22.5)
Sound Pressure Level	Cooling	H / M / L	dB(A) 36 / 32 / 27	38 / 34 / 29
Sound Power Level	Cooling	Max.	dB(A) 56	56
Piping Connections	Drain	O.D. / I.D. mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
<b>OUTDOOR</b>	<b>UUA1 ULO</b>			
Power Supply	Ø / V / Hz	1 / 220-240 / 50		
Circuit Breaker	Min. A	15		
Power Supply Cable (included Earth)	No. x mm²	3C x 1.5		
Dimensions	Net	W x H x D mm	770 x 545 x 288	
Weight	Net	kg	33.3	
Compressor	Type	-	Twin Rotary	
	Type	-	R32	
	GWP (Global Warming Potential)	-	675	
Refrigerant	Precharged Amount	kg	1.0	
	t-CO <sub>2</sub> eq.	-	0.675	
	Control	-	EEV	
	Additional Charging Volume	g/m	20	
	Air Flow Rate	Rated m³/min x No.	28 x 1	
Total Piping Length	Min. / Max. m		5.0 / 30.0	
Piping Elevation	IDU-ODU	Max. m	30	

**STANDARD INVERTER (R32)****MJ18PC / MJ24PC**

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Check ongoing validity of certification  
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**UUB1 U20** **UUC1 U40**

COMBINATION	18		24	
Capacity	Cooling	Min. / Rated / Max. kW	2.00 / 5.00 / 7.00	2.70 / 6.80 / 7.70
	Heating	Min. / Rated / Max. kW	2.30 / 5.80 / 6.10	3.00 / 6.90 / 7.24
Power Input	Cooling	Min. / Rated / Max. kW	0.30 / 1.39 / 2.63	0.40 / 2.00 / 2.57
	Heating	Min. / Rated / Max. kW	0.30 / 1.71 / 1.96	0.40 / 2.33 / 2.50
Running Current	Cooling	Rated A	6.30	9.10
	Heating	Rated A	7.70	10.60
EER / COP		kWh / kWh	3.61 / 3.40	3.40 / 3.00
SEER / SCOP		kWh / kWh	6.80 / 4.00	6.70 / 3.90
P Design	Cooling @ 35°C	kW	5.0	6.8
	Heating @ -10°C	kW	4.1	5.0
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	A++ / A
Annual Energy Consumption	Cooling / Heating	kWh	257 / 1,365	355 / 1,795
Dehumidification Rate		ℓ/h	3.35	3.50
ODU Sound Pressure Level	Cooling	Rated dB(A)	47	48
	Heating	Rated dB(A)	52	52
ODU Sound Power Level	Cooling	Rated dB(A)	63	65
	Heating	Rated dB(A)	-	-
Piping Connections	Liquid	Outer Dia. mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas	Outer Dia. mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
	Connections Method		Flare	Flare
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-15 / 50	-20 / 50
	Heating	Min. / Max. °C	-20 / 18	-20 / 18
<b>INDOOR</b>	<b>MJ18PC NSK</b>		<b>MJ24PC NSK</b>	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Power Input	Min. / Nom. / Max. W	26 / 39 / 60	27 / 45 / 60	
Air Flow Rate	H / M / L	m³/min	15.8 / 12.4 / 10.0	16.9 / 12.8 / 10.4
Dimensions	Body	W x H x D mm	975 x 354 x 209	975 x 354 x 209
Weight	Body	kg (lbs)	10.9 (24.0)	11.5 (25.4)
	Shipping	kg (lbs)	13.9 (30.6)	14.5 (32.0)
Sound Pressure Level	Cooling	H / M / L	dB(A) 44 / 38 / 34	46 / 41 / 36
Sound Power Level	Cooling	Max.	dB(A) 59	65
Piping Connections	Drain	O.D. / I.D. mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
<b>OUTDOOR</b>	<b>UUB1 U20</b>		<b>UUC1 U40</b>	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker	Min. A	20	25	
Power Supply Cable (included Earth)	No. x mm²	3C x 2.5	3C x 2.5	
Dimensions	Net	W x H x D mm	870 x 650 x 330	950 x 834 x 330
Weight	Net	kg	44.5	57.7
Compressor	Type	-	Twin Rotary	Twin Rotary
	Type	-	R32	R32
	GWP (Global Warming Potential)	-	675	675
Refrigerant	Precharged Amount	kg	1.2	1.9
	t-CO <sub>2</sub> eq.	-	0.810	1.283
	Control	-	EEV	EEV
	Additional Charging Volume	g/m	20	40
Air Flow Rate	Rated m³/min x No.		50 x 1	58 x 1
Total Piping Length	Min. / Max. m		5.0 / 35.0	5.0 / 50.0
Piping Elevation	IDU-ODU	Max. m	30	30

## WALL MOUNTED

**STANDARD INVERTER (R32)****US30F / US36F**

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Check ongoing validity of certification  
[www.eurovent-certification.com](http://www.eurovent-certification.com)

**UUC1 U40 UUD1 U30 UUD3 U30**

COMBINATION		<b>30</b>	<b>36</b>	<b>36</b>
Capacity	Cooling	Min. / Rated / Max. kW	3.2 / 8.0 / 9.0	3.8 / 9.5 / 12.5
	Heating	Min. / Rated / Max. kW	3.6 / 9.0 / 10.0	4.3 / 10.8 / 13.4
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.28 / 3.17	0.30 / 2.57 / 3.91
	Heating	Min. / Rated / Max. kW	0.50 / 2.5 / 3.20	0.50 / 2.77 / 3.77
Running Current	Cooling	Rated A	10.1	11.4
	Heating	Rated A	11.1	12.2
EER / COP		kWh / kWh	3.51 / 3.60	3.70 / 3.90
SEER / SCOP		kWh / kWh	7.0 / 4.3	6.10 / 3.85
Pdesign	Cooling @ 35°C	kW	8	9.5
	Heating @ -10°C	kW	5.4	8.7
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	A++ / A
Annual Energy Consumption	Cooling / Heating	kWh	400 / 1,758	545 / 3,164
Dehumidification Rate		l/h	2.9	3.8
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 52	50 / 50
ODU Sound Power Level	Cooling	Rated dB(A)	68	66
Piping Connections	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections Method	-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 ~ 50	-20 ~ 52
	Heating	Min. / Max. °C	-20 ~ 18	-25 ~ 18
<b>INDOOR</b>		<b>US30F NRO</b>	<b>US36F NRO</b>	<b>US36F NRO</b>
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	47 / 42 / 36	65 / 47 / 42
Air Flow Rate	H / M / L	m3/min	21 / 17 / 13	25 / 21 / 17
Dimensions	Body	W x H x D	1,200 x 360 x 265	1,200 x 360 x 265
Weight	Body	kg	18.3	18.3
Sound Pressure Level	Cooling	H / M / L	46.0 / 42.0 / 38.0	51.0 / 46.0 / 42.0
Sound Power Level	Cooling	Max.	dB(A)	62
Piping Connections	Drain	O.D. / I.D.	mm	Ø21.5 / 16.0
<b>OUTDOOR</b>		<b>UUC1 U40</b>	<b>UUD1 U30</b>	<b>UUD3 U30</b>
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	3 / 380-415 / 50
Circuit Breaker	Min.	A	25	40
Power Supply Cable (Included Earth)	No x mm <sup>2</sup>	3C x 2.5	3C x 6.0	5C x 2.5
Dimensions	Net	W x H x D	mm	950 x 834 x 330
Weight	Net	kg	57.7	85
Compressor	Type	-	Twin Rotary	Inverter Scroll
	Type	-	R32	R32
Refrigerant	GWP (Global Warming Potential)	-	675	675
	Precharged Amount	kg	1.9	3.0
Fan	t-CO <sub>2</sub> eq	-	1.283	2.025
	Additional Charge (After 7.5m)	g/m	40	40
Total Piping Length	Air Flow Rate	Rated	m <sup>3</sup> /min x No.	58 x 1
	Min. / Max.	m		5 / 50
Piping Elevation	IDU - ODU	Max.	m	30

Note :

1. Due to our policy of innovation some specifications may be changed without notification.
2. Performances are based on the following conditions (It is accordance with EN14511)
  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R32)

**COMPACT INVERTER (R32)****US30F / US36F**

LG participates in the ECP programme for EUROVENT AC program.  
Check ongoing validity of certification  
[www.eurovent-certification.com](http://www.eurovent-certification.com)

**UUB1 U20 UUC1 U40**

COMBINATION		<b>30</b>	<b>36</b>	
Capacity	Cooling	Min. / Rated / Max. kW	3.0 / 7.5 / 8.3	3.8 / 9.5 / 10.6
	Heating	Min. / Rated / Max. kW	3.1 / 7.7 / 8.5	4.3 / 10.8 / 11.5
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.31 / 2.77	0.60 / 3.06 / 3.67
	Heating	Min. / Rated / Max. kW	0.40 / 2.14 / 2.78	0.60 / 3.0 / 3.72
Running Current	Cooling	Rated A	10.1	13.6
	Heating	Rated A	9.3	13.3
EER / COP		kWh / kWh	3.25 / 3.60	3.10 / 3.60
SEER / SCOP		kWh / kWh	6.8 / 4.1	6.4 / 4.1
Pdesign	Cooling @ 35°C	kW	7.5	9.5
	Heating @ -10°C	kW	4.3	5.8
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating	kWh	386 / 1,468	520 / 1,980
Dehumidification Rate		l/h	3.0	3.5
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 54	54 / 56
ODU Sound Power Level	Cooling	Rated dB(A)	67	70
Piping Connections	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections Method	-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-10 ~ 48	-20 ~ 50
	Heating	Min. / Max. °C	-15 ~ 18	-15 ~ 18
<b>INDOOR</b>		<b>US30F NRO</b>	<b>US36F NRO</b>	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Power Input (IDU)	H / M / L	W	47 / 42 / 36	65 / 47 / 42
Air Flow Rate	H / M / L	m3/min	21 / 17 / 13	25 / 21 / 17
Dimensions	Body	W x H x D	mm	1,200 x 360 x 265
Weight	Body	kg	18.3	18.3
Sound Pressure Level	Cooling	H / M / L	46.0 / 42.0 / 38.0	51.0 / 46.0 / 42.0
Sound Power Level	Cooling	Max.	dB(A)	62
Piping Connections	Drain	O.D. / I.D.	mm	Ø21.5 / 16.0
<b>OUTDOOR</b>		<b>UUB1 U20</b>	<b>UUC1 U40</b>	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker	Min.	A	20	25
Power Supply Cable (Included Earth)	No x mm <sup>2</sup>	3C x 2.5	3C x 2.5	
Dimensions	Net	W x H x D	mm	870 x 650 x 330
Weight	Net	kg	44.5	57.7
Compressor	Type	-	Twin Rotary	Twin Rotary
	Type	-	R32	R32
Refrigerant	GWP (Global Warming Potential)	-	675	675
	Precharged Amount	kg	1.2	1.9
Fan	t-CO <sub>2</sub> eq	-	0.81	1.283
	Additional Charge (After 7.5m)	g/m	40	40
Total Piping Length	Air Flow Rate	Rated	m <sup>3</sup> /min x No.	50 x 1
	Min. / Max.	m		5 / 35
Piping Elevation	IDU - ODU	Max.	m	30

Note :

1. Due to our policy of innovation some specifications may be changed without notification.
2. Performances are based on the following conditions (It is accordance with EN14511)
  - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
  - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. This product contains fluorinated greenhouse gases. (R32)

**WALL MOUNTED**

# AHU COMBINATION

# AHU SOLUTION

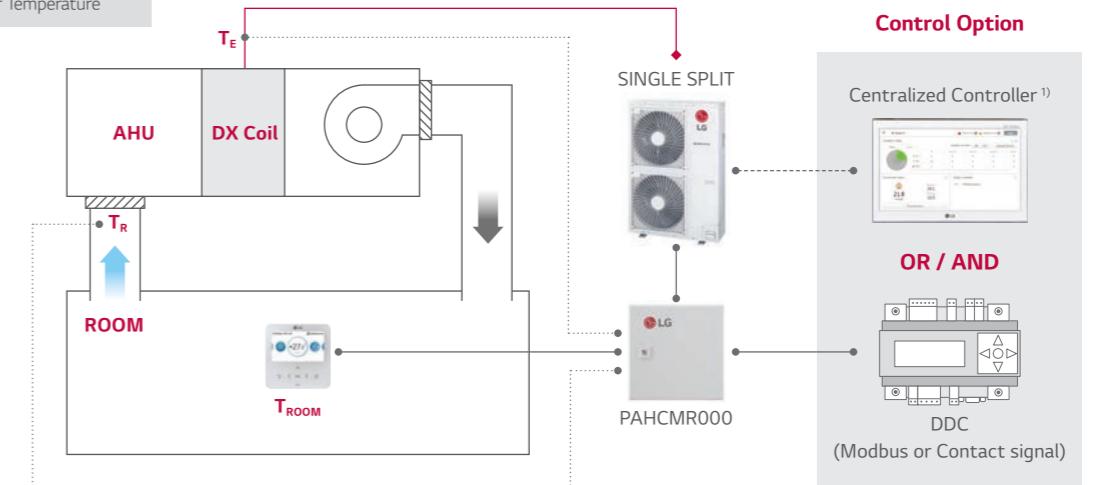


## Air Handling Applications

Economically feasible solution for pair application with air handling units.

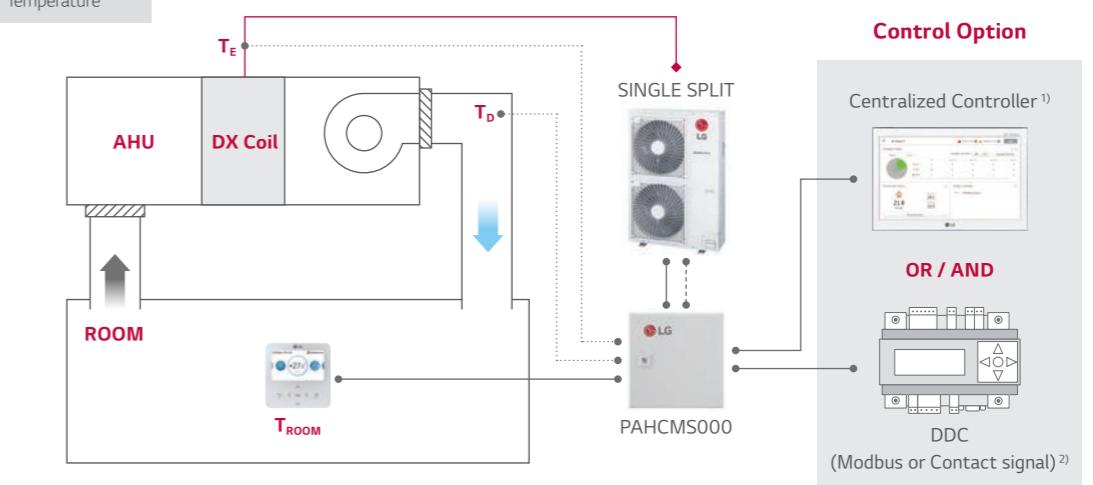
### Return/Room Air Temperature Control

- Temp Sensors
  - Comm. Line
  - Central Comm. Line to ODU
  - ◆ Ref. Pipe
- $T_E$  = Evaporator Temperature (Liquid Pipe / Gas Pipe)  
 $T_R$  = Return Air Temperature  
 $T_{ROOM}$  = Room Air Temperature



### Discharge Air Temperature Control

- Temp Sensors
  - Comm. Line
  - Central Comm. Line to ODU
  - ◆ Ref. Pipe
- $T_E$  = Evaporator Temperature (Liquid Pipe / Gas Pipe)  
 $T_D$  = Discharge Air Temperature  
 $T_{ROOM}$  = Room Air Temperature



1) PI485(PMNFP14A1) is required for using centralized controller.

2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.

3) For more detail, please refer to the PDB of AHU Communication Kit.

## Communication Kit



PAHCMR000 / PAHCMS000

### Specification

MODEL	COMBINATION		DESCRIPTION	DIMENSIONS (MM)		
	OUTDOOR UNIT	CENTRALIZED CONTROLLER		W	H	D
PAHCMR000	Single Split	.	Return / Room air temperature control by DDC or LG individual / centralized controller	300	300	155
PAHCMS000	Single Split	.	Discharge air temperature control by DDC or LG individual / centralized controller	380	300	155

### Function list for Communication kit

FUNCTION LIST*		PAHCMR000	PAHCMS000	NOTE
Control	Comm. Kit Operation	On / Off	On / Off	
	Operation Mode <sup>1)</sup>	Cooling / Heating	Cooling / Heating	
	Return (room) Air Temperature	16~30°C	-	
	Discharge Air Temperature <sup>2)</sup>	-	16~30°C	Available in case of using DDC with Modbus or LG Control system
	Fan Speed <sup>3)</sup>	Low / Middle / High	Low / Middle / High	It may not be possible depending on the particular condition
	Forced Thermal On / Off	On / Off	-	Available in case of using DDC with contact signal
Monitor	Capacity Control	-	.	Available in case of using DDC with Modbus or contact signal
	Comm. Kit Operation	On / Off	On / Off	
	Operation Mode <sup>1)</sup>	Cooling / Heating	Cooling / Heating	Available in case of using DDC with Modbus or LG Control system
	Fan Speed	Low / Middle / High	Low / Middle / High	
	Error Alarm	.	.	
	Compressor On / Off	On / Off	On / Off	Available in case of using DDC with Modbus or LG individual controller PAHCMR000 doesn't provide this in case of using DDC with contact signal

1) Available operation mode can be varied depending on the setting of AHU Communication Kit.

2) This range may differ depending on the type of controller.

3) To control and monitor the fan speed, DO ports for the fan speed status have to be connected with the fan unit.

\* Some of functions may not be possible depending on the setting of AHU Communication Kit. For more details of condition, please refer to the product data book.

### Combination Table

	R32				R410A		
	Model Name	UUA1 ULO	UUB1 U20	UUC1 U40	UUD1 U30 UUD3 U30	UU70W U34	UU85W U74
Capacity Index Range	kBtu/h	9 ~ 18	18 ~ 30	24 ~ 36	36 ~ 60	70	85
	kW	2.5 ~ 5.0	5.0 ~ 8.0	6.8 ~ 10.0	10.0 ~ 14.6	20.0	25.0
PAHCMR000	X	0	0	0	0	0	0
PAHCMS000	X	0	0	0	0	0	0

## ACCESSORIES



## ACCESSORIES

## LG Wi-Fi Modem

Control conditioners by using internet devices such as Android or iOS smartphones.



PWFMD200

#### Features

- User can enjoy anytime, anywhere access with Wi-Fi equipped device through LG's ThinQ mobile app.
- This allows the user to access the unit remotely to switch unit on or off before or after leaving the vicinity.
- LG's exclusive Home Appliances control app (LG ThinQ) is available.
- Simple operation for various functions.
  - On / Off
  - Operation Mode
  - Current / Set Temperature
  - Fan Speed
  - Vane Control<sup>1)</sup>
  - Reservation (Sleep, Weekly On / Off)
  - Energy Monitoring<sup>2)</sup>
  - Filter Management
  - Error Check
  - Air Purify<sup>3)</sup>

Model Name	PWFMD200
Size (W x H x D, mm)	48 x 68 x 14
Interfaceable Products	System Air Conditioner <sup>3)</sup>
Connection Type	Indoor unit 1:1
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b/g/n
Mobile Application	LG ThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or higher)
Optional Extension Cable	PWYREW000 (10m extension)

Note : 1. Functionality may be different according to each IDU model.

2. User interface of application shall be revised for its design and contents improvement.

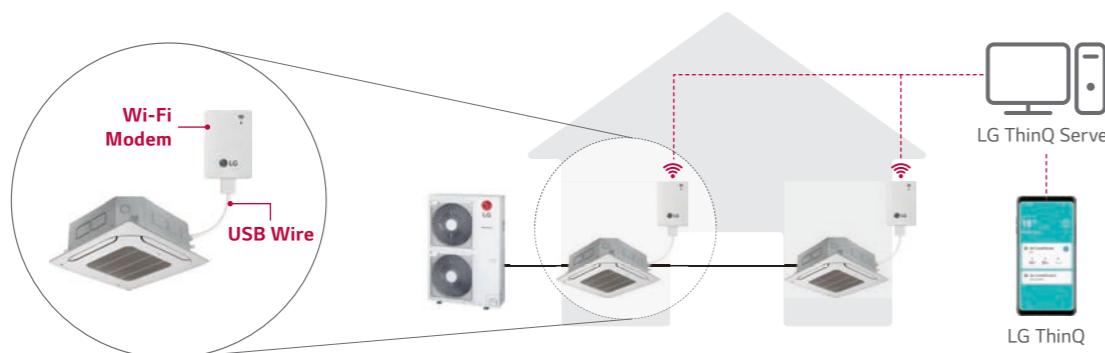
3. Application is optimized for smartphone use, so it may not be well functioning with tablet devices.

1) Vane Control may not be possible according to the type of Indoor unit.

2) LG Centralized controller and PDI installation is required for this function.

3) For the compatibility with indoor units, regional LG office.

#### Overview



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

※ Internet service with Wi-Fi connection has to be available.

## Standard Wired Remote Controller



Standard III  
PREMTB100  
Standard III  
PREMTBB10



Standard II  
PREMTB001  
Standard II  
PREMTBB01

Model Name	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01
Operation Mode	On / Off, Fan Speed Control, Temperature Setting	
Mode Change	Cooling, Heating, Auto, Dehumidification, Fan	
Auto Swing / Vane Control	•	•
Reservation	Simple, Sleep, On / Off, Weekly, Holiday	
Time Display	•	•
Electrical Failure Compensation	•	•
Child Lock	•	•
Operation Status LED	•	•
Indoor Temperature Display	•	•
Wireless Remote Controller Receiver	-	•
Size (W x H x D, mm)	120 x 120 x 16	120 x 121 x 16
Backlight	•	•

※ Refer to each model PDB for applicable models.

## Remote Controller

## PI 485



PWLSSB21H



PMNFP14A1

Power : Single phase AC 220V 50/60Hz

Max. no. of the indoor units that can be connected : 64 UNITS

Model applied : RAC / Multi / Single / Therma V

※ Refer to each product PDB for applicable models.

## Dry Contact



PDRYCB000 PDRYCB400



PDRYCB320 PDRYCB500

※ Refer to each product PDB for applicable models.

Model	PDRYCB000	PDRYCB400	PDRYCB320	PDRYCB500
Contact Point	1 Control Point	2 Control Point	8 Control Point	Modbus RTU
Power Input	AC 220V from outside power source	DC 5V & 12V from indoor unit PCB	DC 5V & 12V from indoor unit PCB	DC 5V & 12 V from indoor unit PDB
Voltage / Non Voltage Input	-	•	•	-
On / Off Control	•	•	•	•
Lock / Unlock	•	•	•	•
Fan Speed Setting	-	-	•	•
Thermo Off	-	•	•	-
Energy Saving	-	•	-	-
Temperature Setting	-	•	•	•
Error Monitoring	•	•	•	•
Operation Monitoring	•	•	•	•

# CEILING MOUNTED CASSETTE

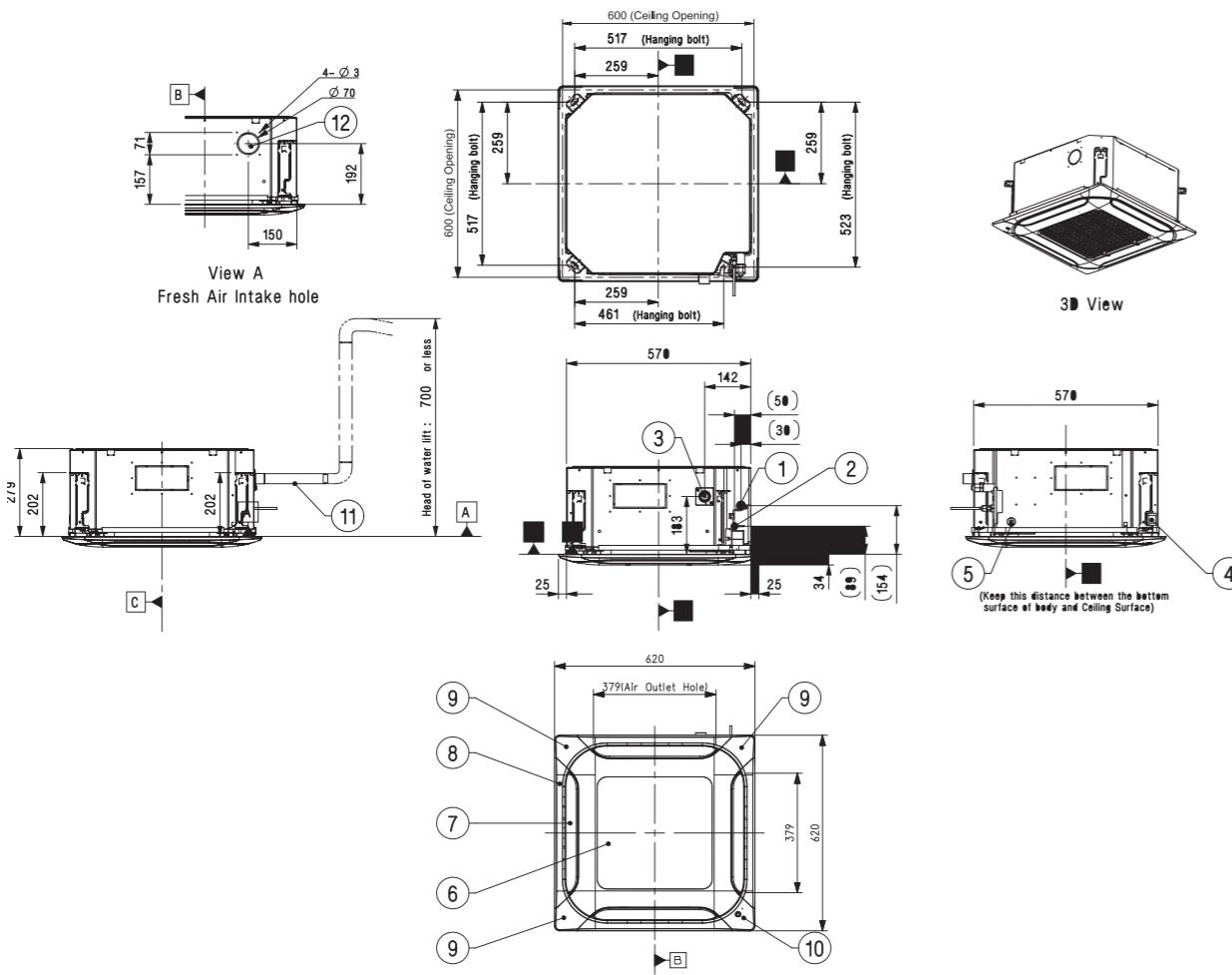
## CEILING MOUNTED CASSETTE

### H-INVERTER (R32)

UT09FH NQ0 / UT12FH NQ0

(Unit : mm)

	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Wired Remote Controller Wire Routing Hole
6	Air Inlet
7	Air Outlet
8	Decoration Panel (Accessory)
9	Decoration Corner Cover
10	Decoration Corner Display Cover
11	Flexible Drain Hose
12	Fresh air Intake Hole

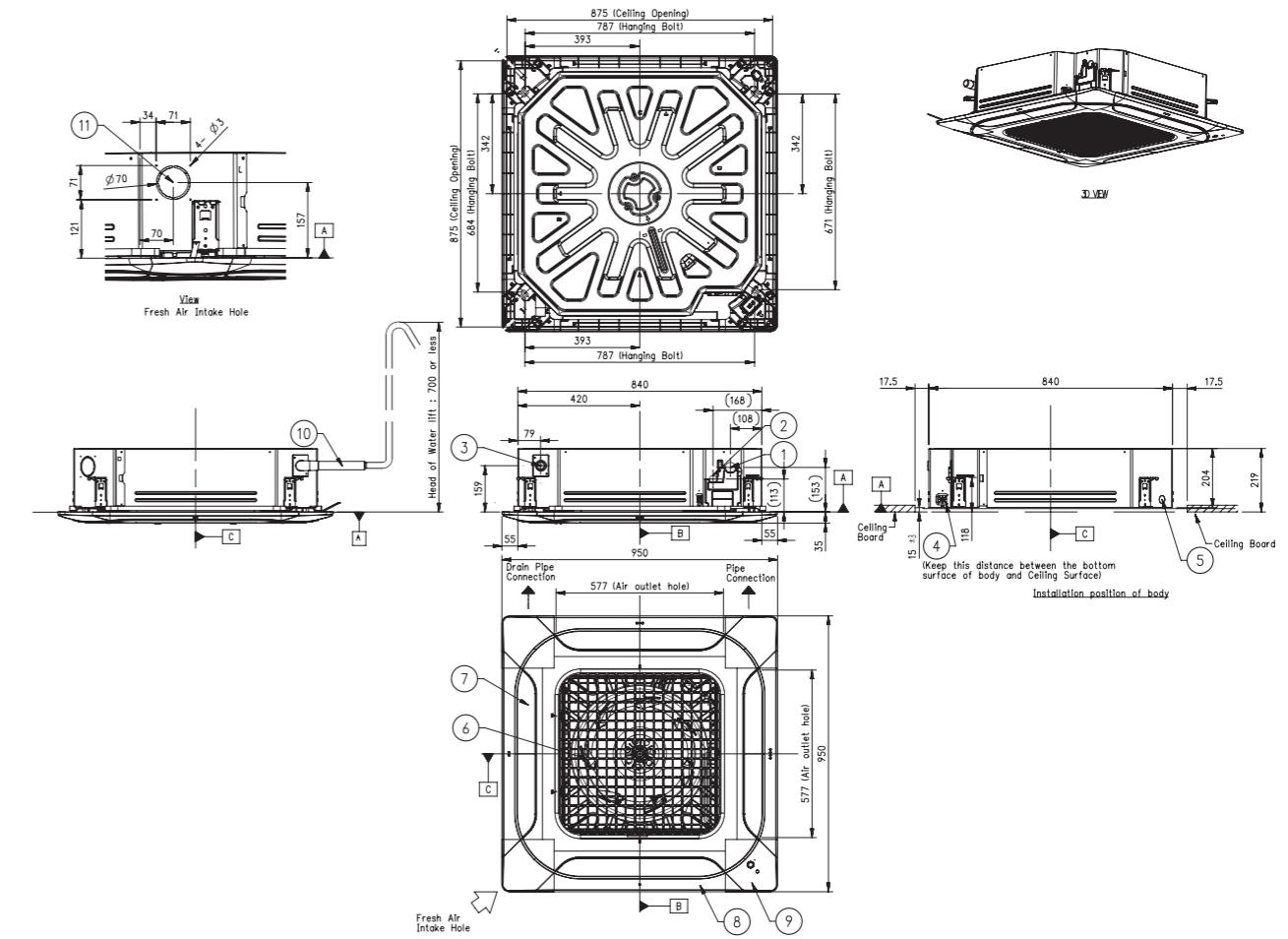


### H-INVERTER (R32)

UT18FH NBO

(Unit : mm)

	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Wired Remote Controller Wire Routing Hole
6	Air Inlet
7	Air Outlet
8	Decoration Panel (Accessory)
9	Decoration Corner Cover
10	Decoration Corner Display Cover
11	Flexible Drain Hose



# CEILING MOUNTED CASSETTE

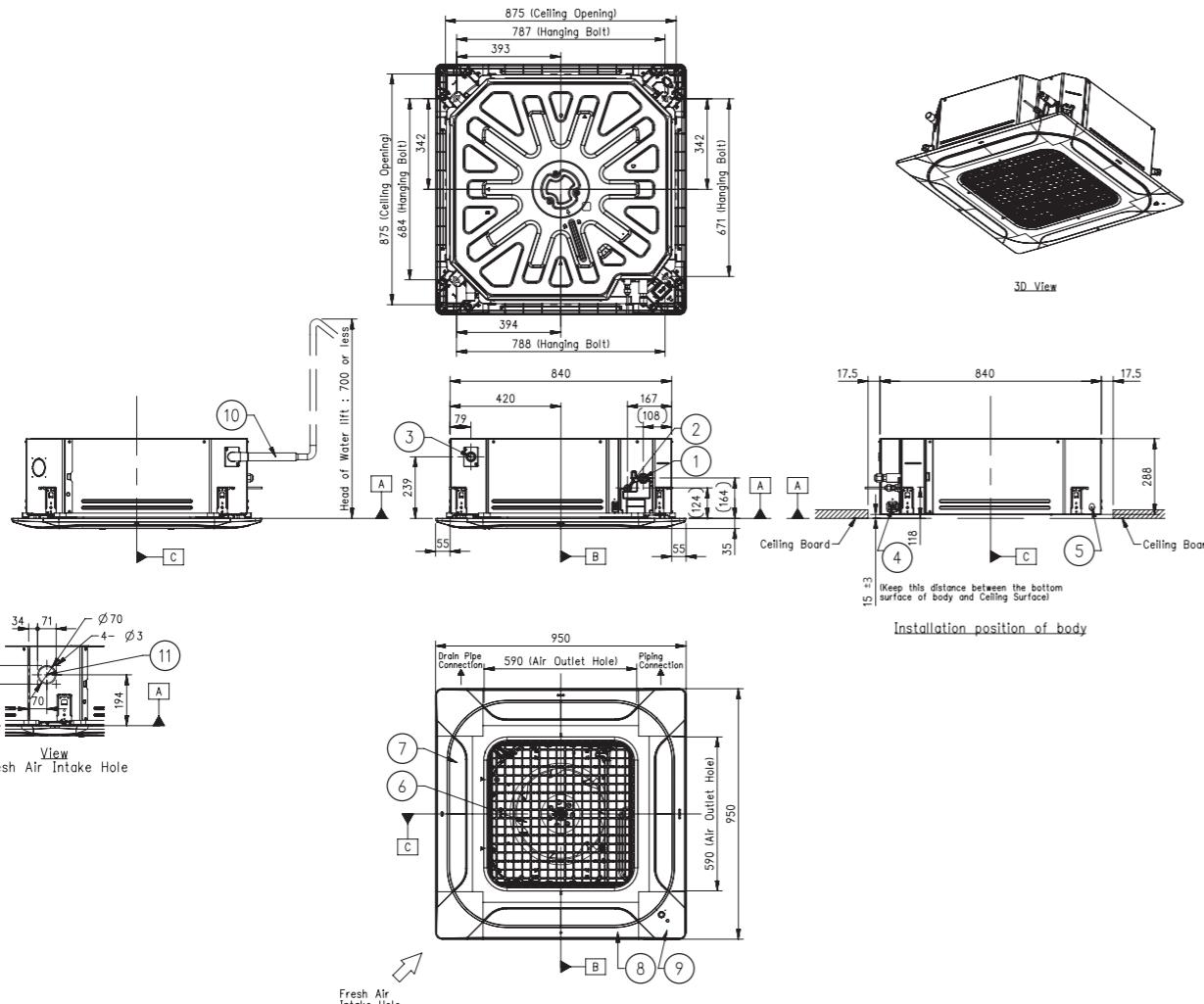
## CEILING MOUNTED CASSETTE

### H-INVERTER (R32)

UT24FH NAO / UT30FH NAO / UT36FH NAO / UT42FH NAO  
UT48FH NAO / UT60FH NAO

(Unit : mm)

	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Wired Remote Controller Wire Routing Hole
6	Air Inlet
7	Air Outlet
8	Decoration Panel (Accessory)
9	Decoration Corner Cover
10	Flexible Drain Hose
11	Fresh Air Intake Hole

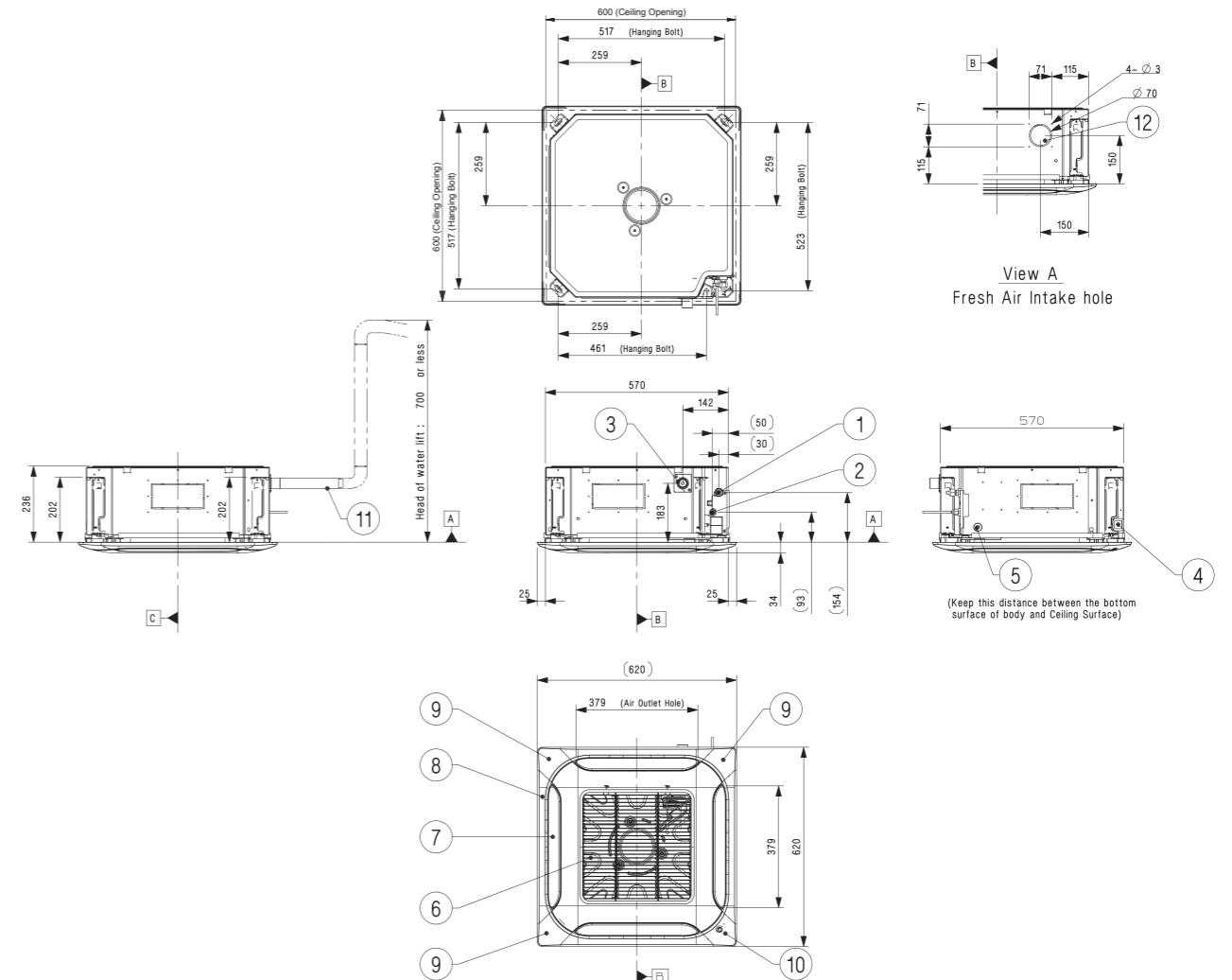


### STANDARD INVERTER (R32)

CT09F NRO / CT12F NRO

(Unit : mm)

	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Wired Remote Controller Wire Routing Hole
6	Air Inlet
7	Air Outlet
8	Decoration Panel (Accessory)
9	Decoration Corner Cover
10	Decoration Corner Display Cover
11	Flexible Drain Hose
12	Fresh air Intake Hole



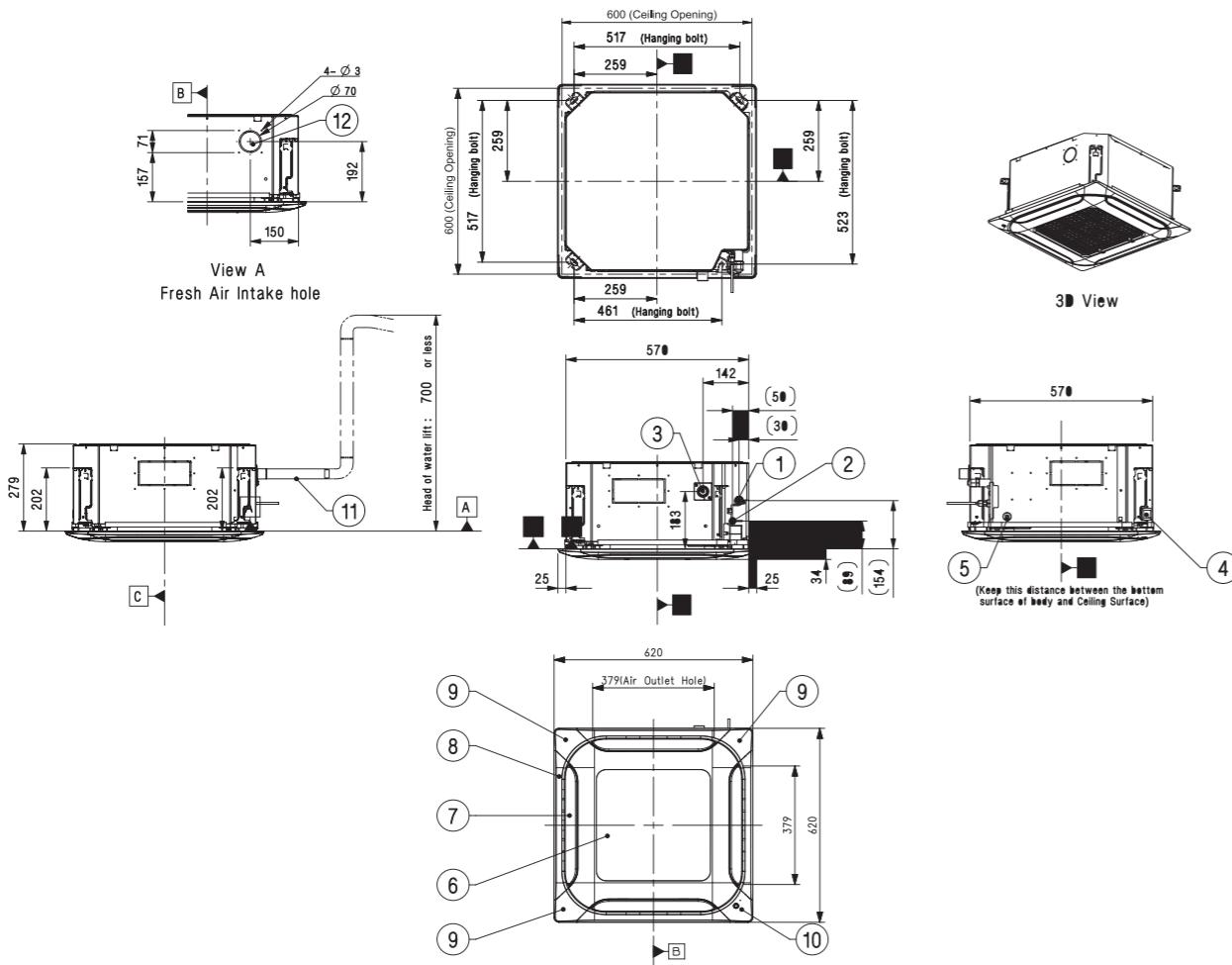
## CEILING MOUNTED CASSETTE

STANDARD / COMPACT INVERTER (R32)

CT18F NQ0

(Unit : mm)

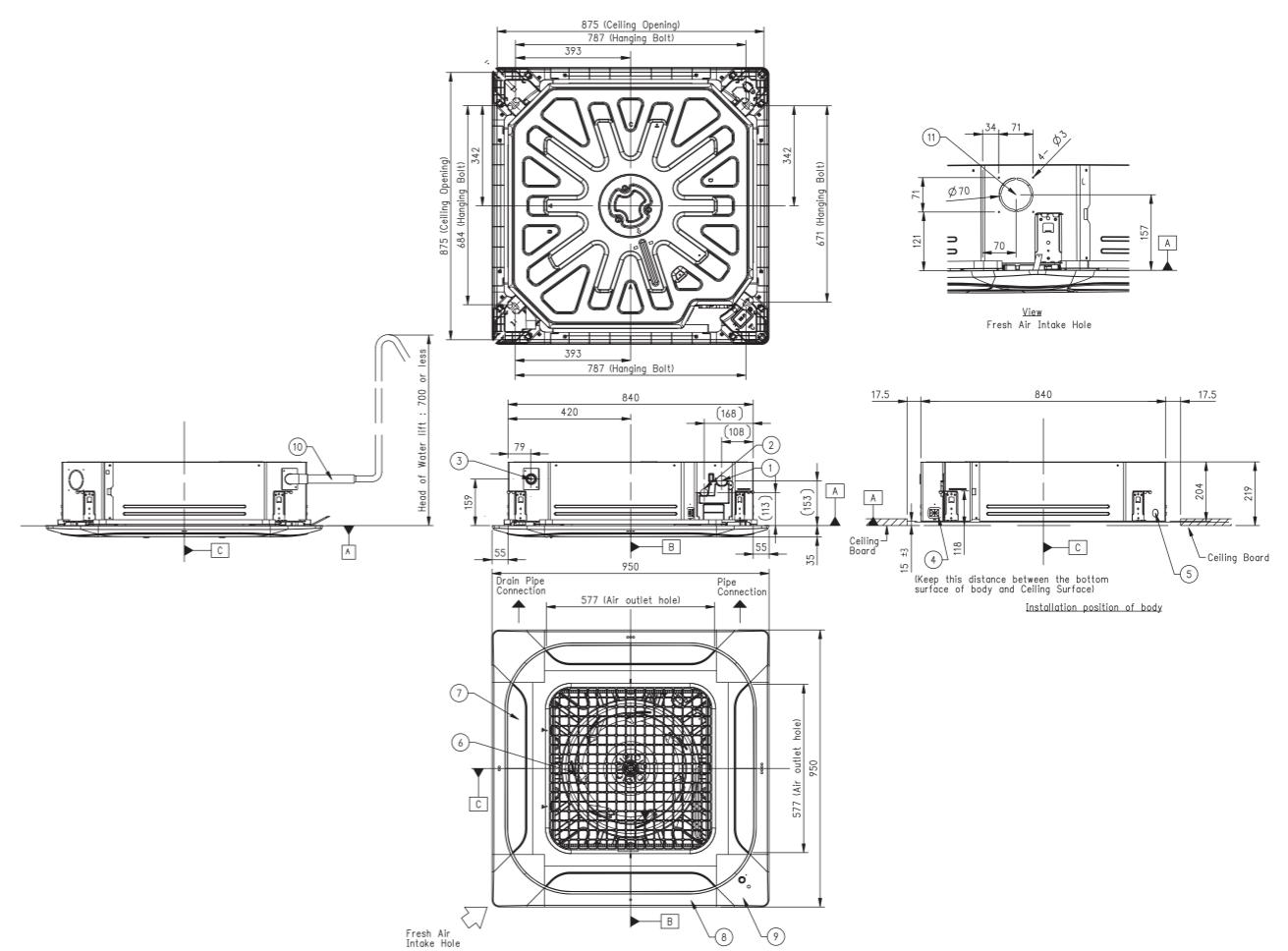
PART NAME	
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Wired Remote Controller Wire Routing Hole
6	Air Inlet
7	Air Outlet
8	Decoration Panel (Accessory)
9	Decoration Corner Cover
10	Decoration Corner Display Cover
11	Flexible Drain Hose
12	Fresh air Intake Hole

STANDARD / COMPACT INVERTER (R32)

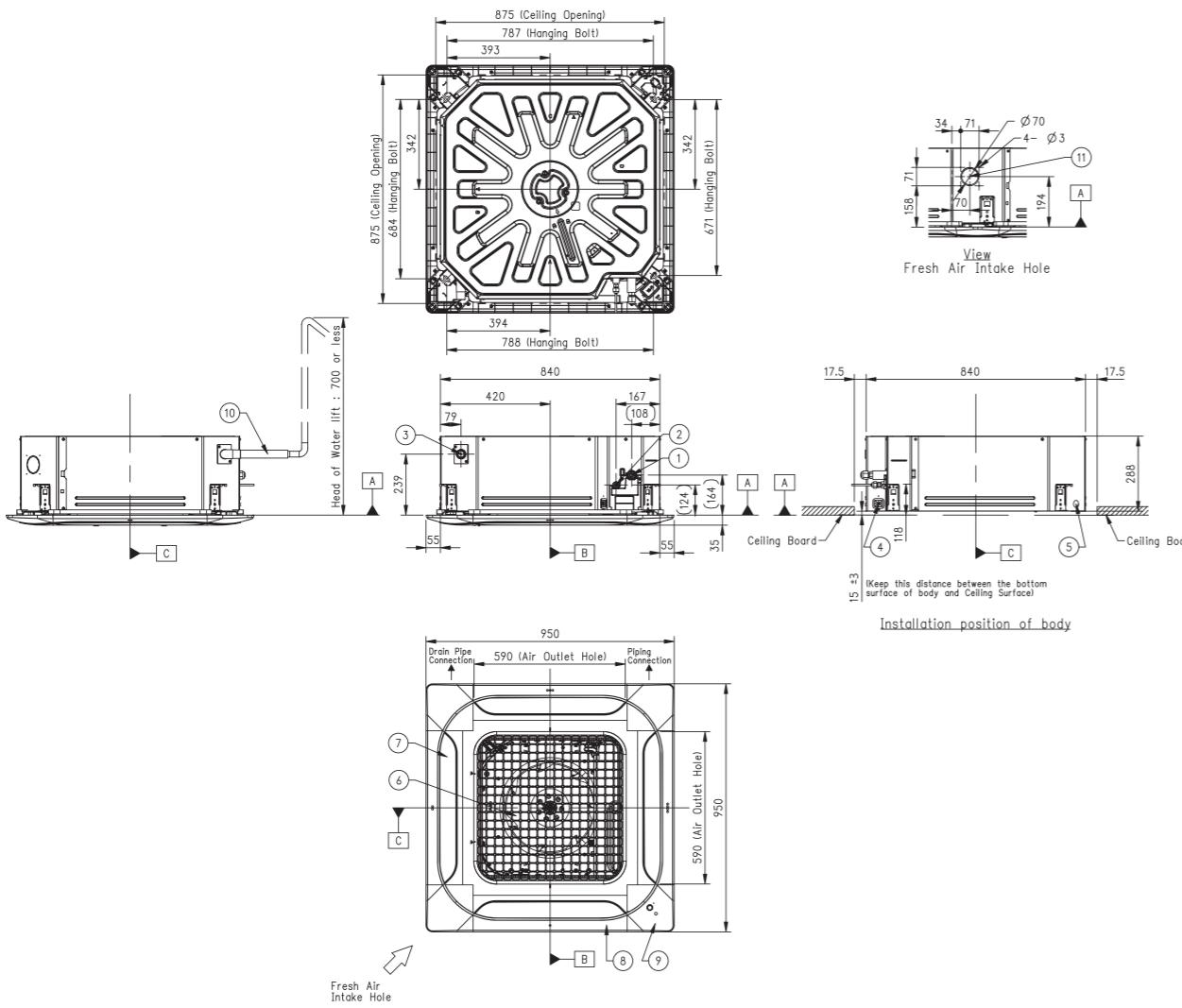
CT24F NBO / UT30F NBO

(Unit : mm)

PART NAME	
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Wired Remote Controller Wire Routing Hole
6	Air Inlet
7	Air Outlet
8	Decoration Panel (Accessory)
9	Decoration Corner Cover
10	Flexible Drain Hose
11	Fresh Air Intake Hole



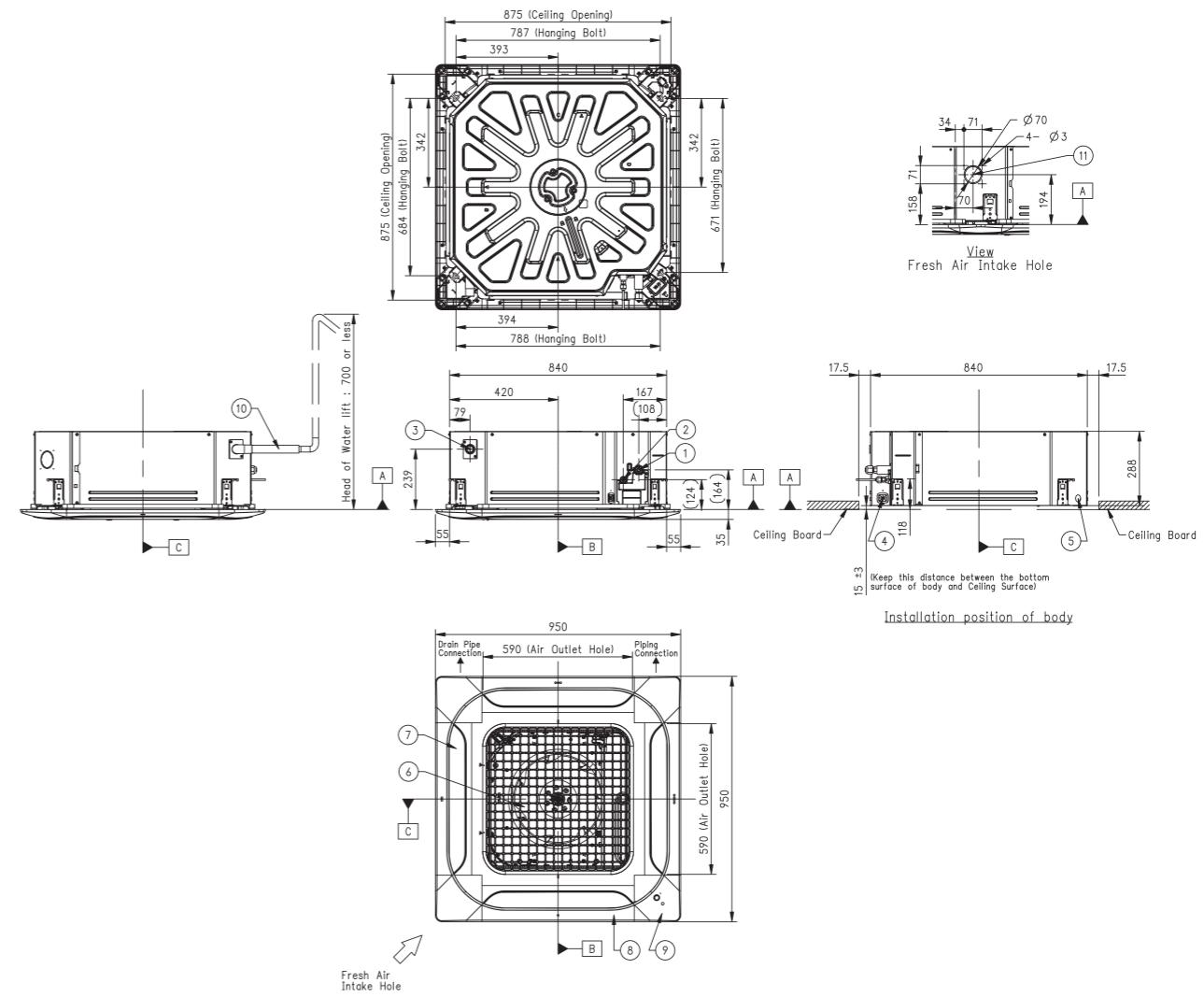
Part Name	
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Wired Remote Controller Wire Routing Hole
6	Air Inlet
7	Air Outlet
8	Decoration Panel (Accessory)
9	Decoration Corner Cover
10	Flexible Drain Hose
11	Fresh Air Intake Hole



## **STANDARD INVERTER (R32)**

UT42F NAO / UT48F NAO / UT60F NAO

(Unit : mm)	
	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Wired Remote Controller Wire Routing Hole
6	Air Inlet
7	Air Outlet
8	Decoration Panel (Accessory)
9	Decoration Corner Cover
10	Flexible Drain Hose
11	Fresh Air Intake Hole



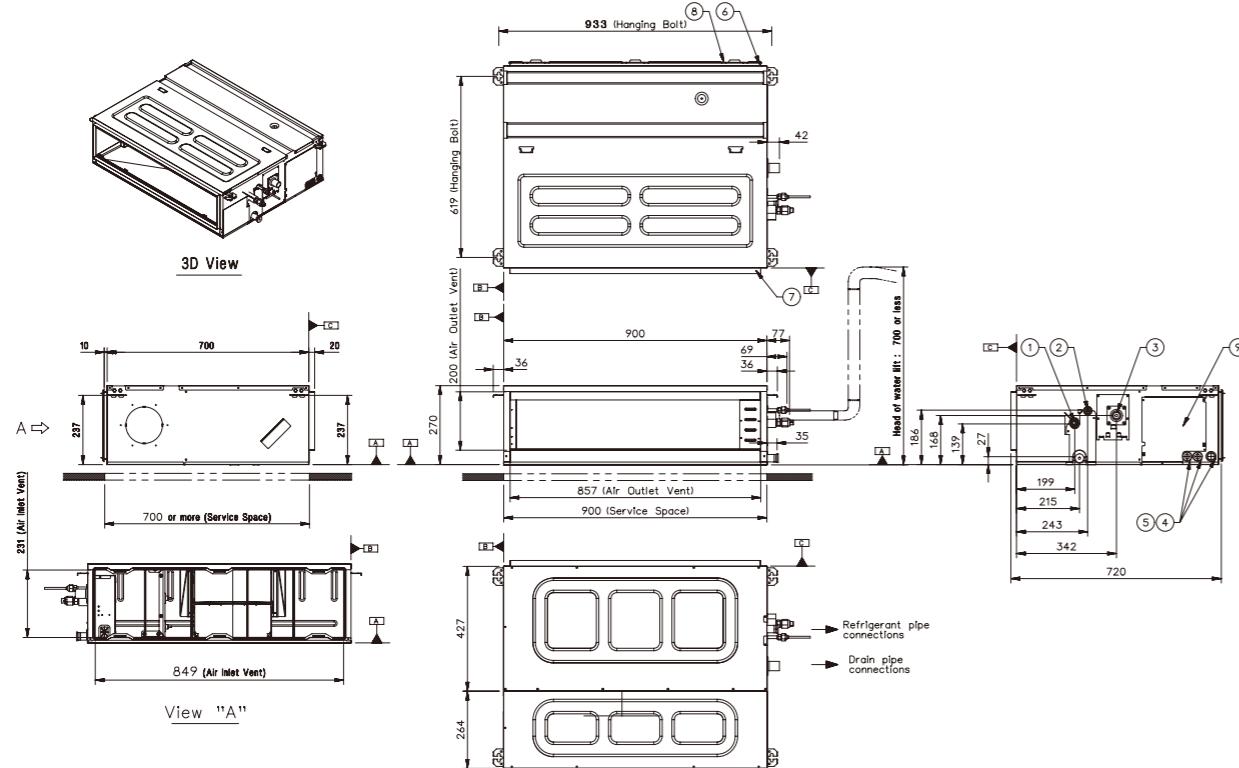
# CEILING CONCEALED DUCT

## CEILING CONCEALED DUCT

**H-INVERTER (R32) / MID STATIC**  
UM12FH N10 / UM18FH N10

(Unit : mm)

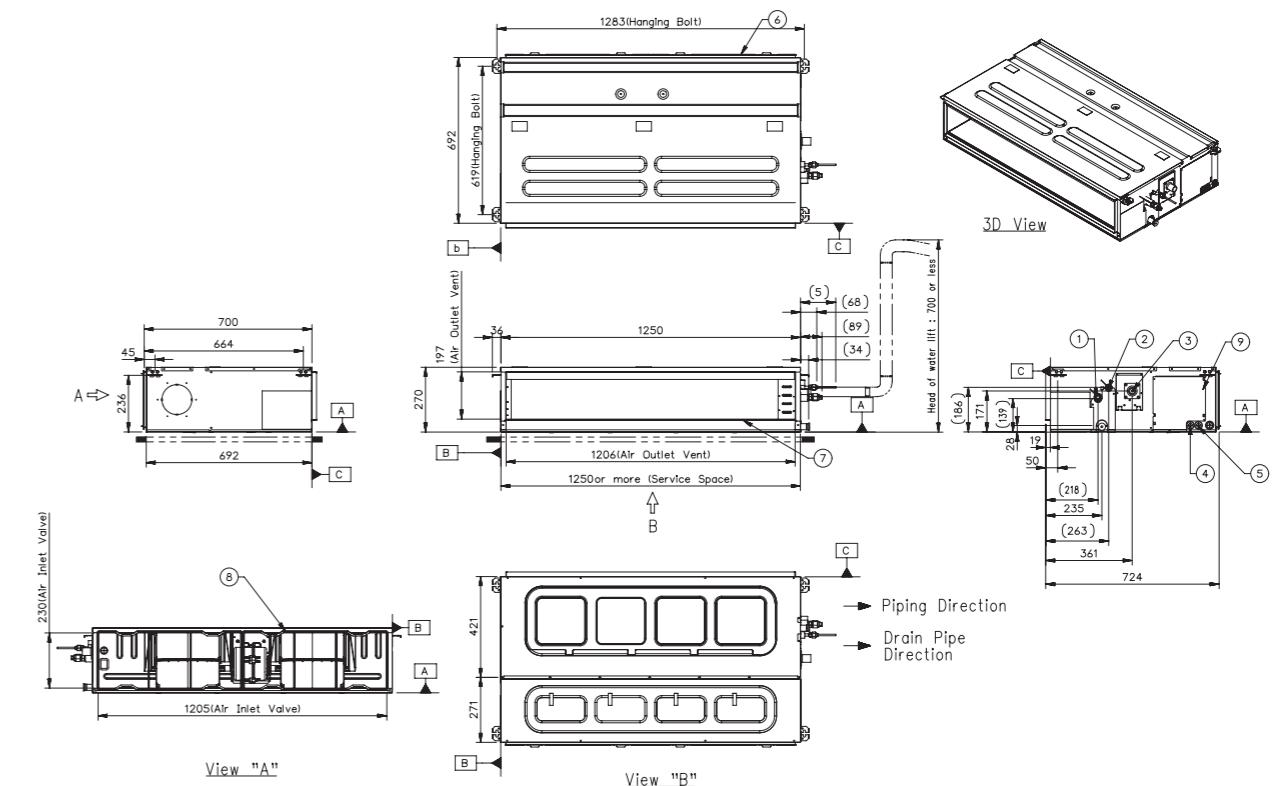
	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Remote Controller Cable Hole
6	Air Inlet
7	Air Outlet
8	Air Filters
9	Control Cover



**H-INVERTER (R32) / MID STATIC**  
UM24FH N20 / UM30FH N20

(Unit : mm)

	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Remote Controller Cable Hole
6	Air Inlet
7	Air Outlet
8	Air Filters
9	Control Cover



# CEILING CONCEALED DUCT

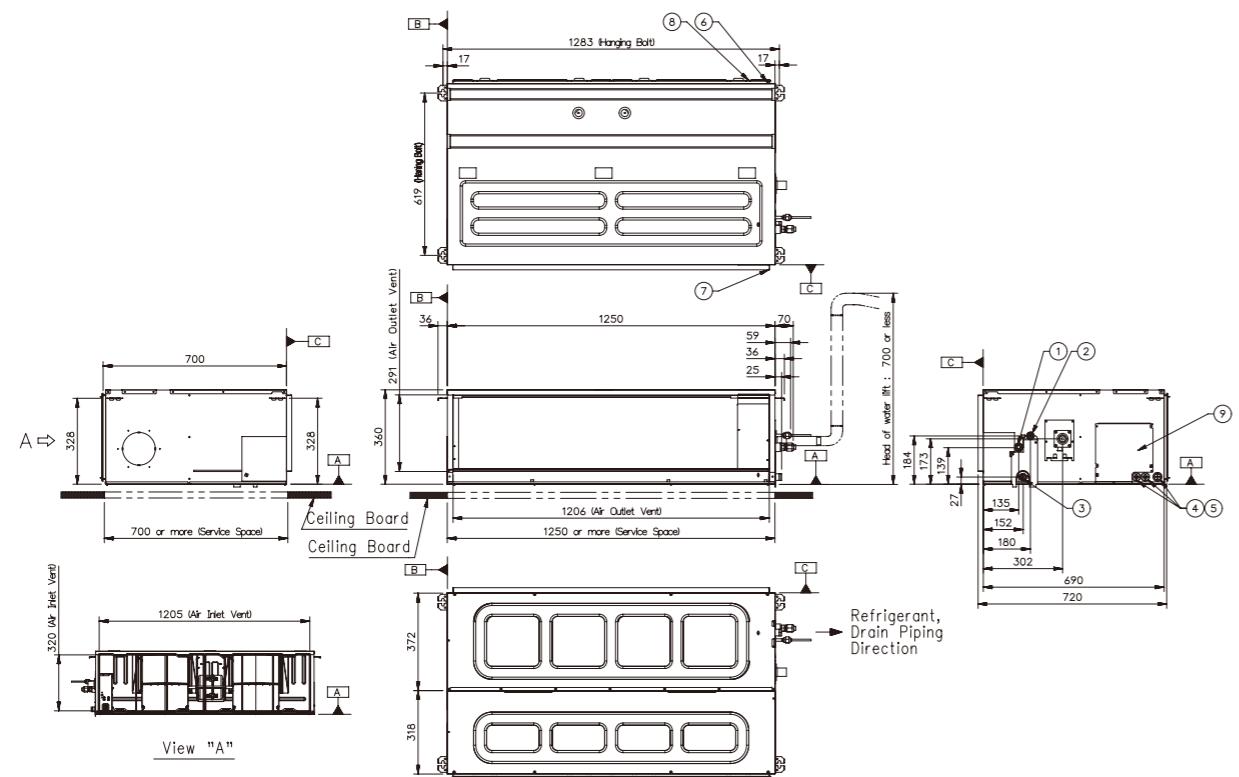
## CEILING CONCEALED DUCT

### H-INVERTER (R32) / MID STATIC

UM36FH N30 / UM42FH N30 / UM48FH N30

(Unit : mm)

	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Remote Controller Cable Hole
6	Air Inlet
7	Air Outlet
8	Air Filters
9	Control Cover

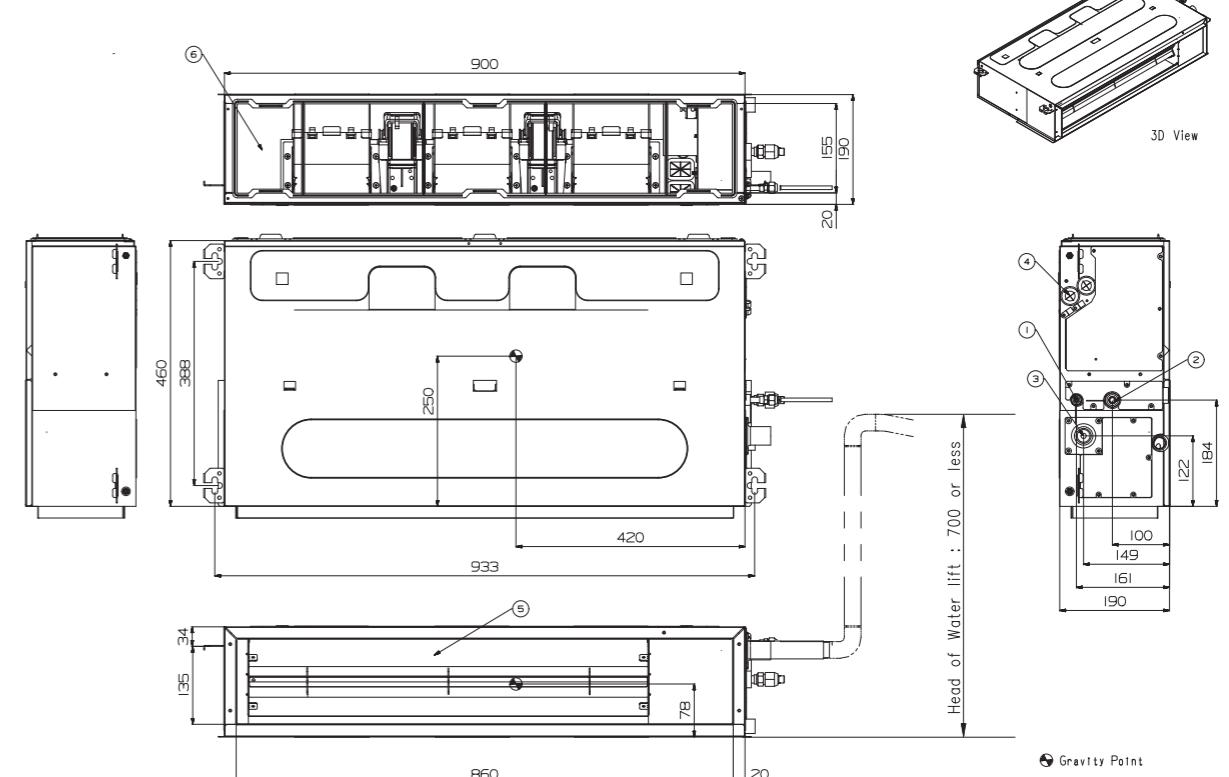


### H-INVERTER (R32) / LOW STATIC

UL12FH N50

(Unit : mm)

	PART NAME
1	Liquid Pipe Connection
2	Gas Pipe Connection
3	Drain Pipe Connection
4	Power supply Connection
5	Air Discharge
6	Air Suction



# CEILING CONCEALED DUCT

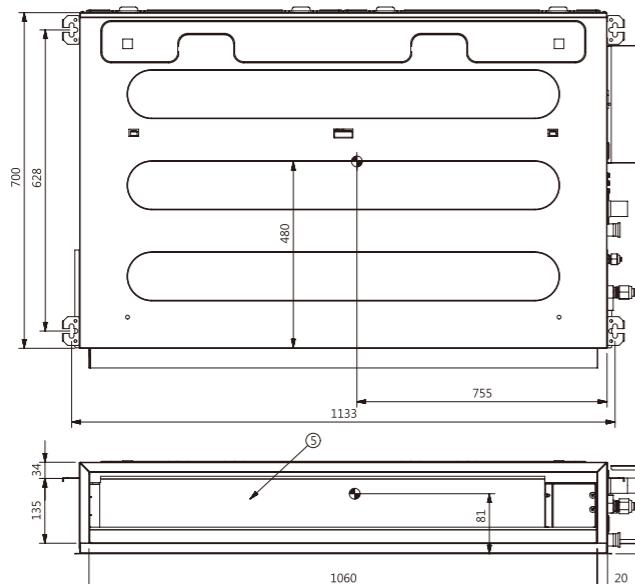
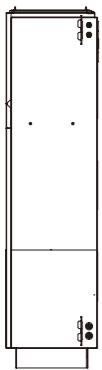
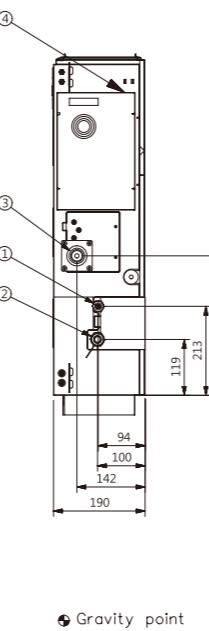
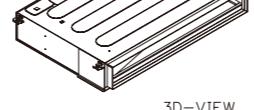
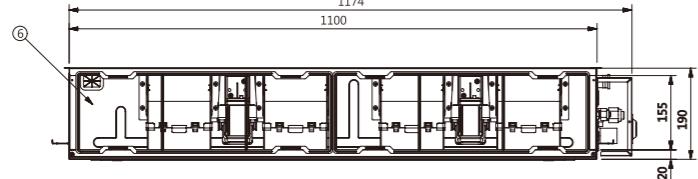
## CEILING CONCEALED DUCT

### H-INVERTER (R32) / LOW STATIC

UL18FH N30

(Unit : mm)

	PART NAME
1	Liquid Pipe Connection
2	Gas Pipe Connection
3	Drain Pipe Connection
4	Power supply Connection
5	Air Discharge
6	Air Suction



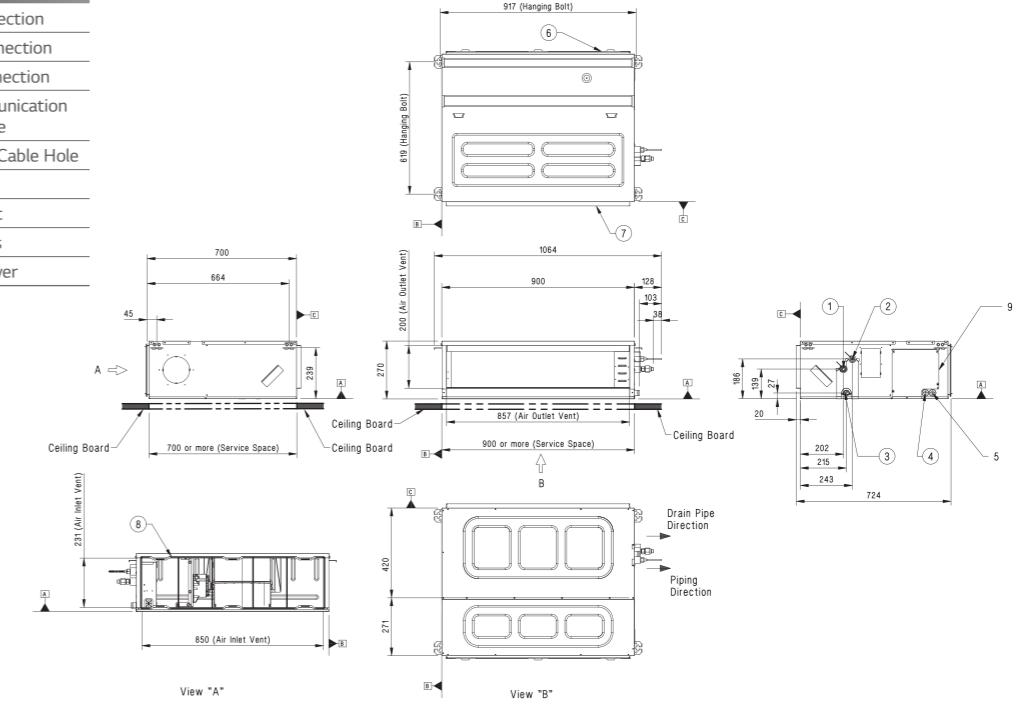
## CEILING CONCEALED DUCT

### STANDARD / COMPACT INVERTER (R32) / MID STATIC

CM18F N10 / CM24F N10 / UM30F N10

(Unit : mm)

	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Hole
5	Remote Controller Cable Hole
6	Air Inlet
7	Air Outlet
8	Air Filters
9	Control Cover

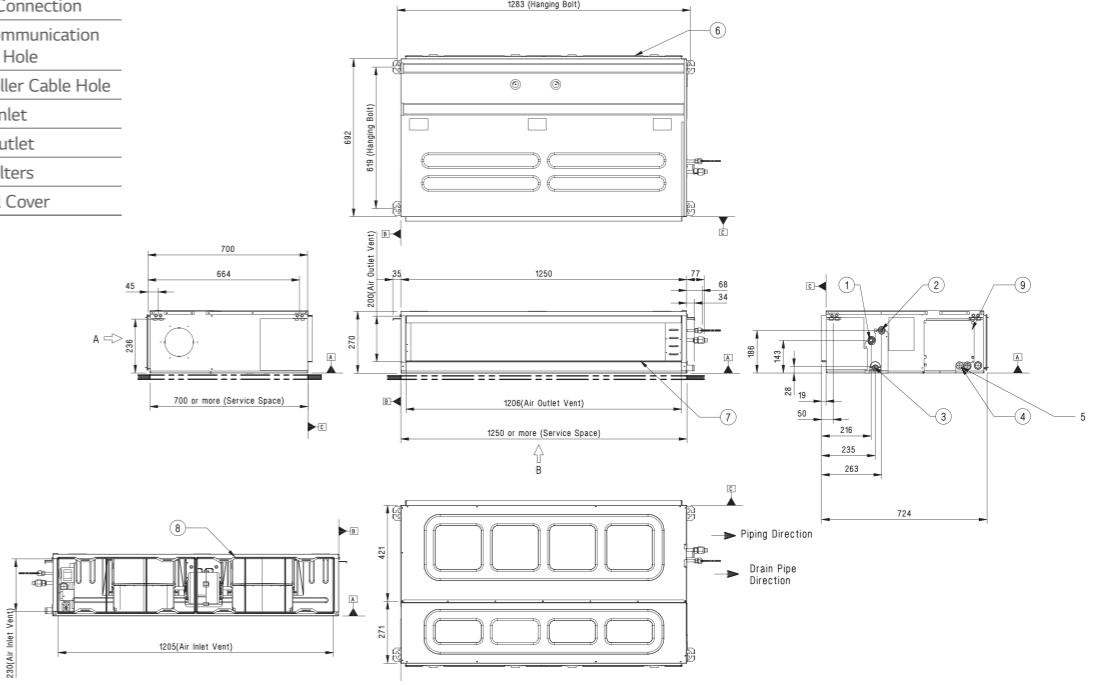


### STANDARD / COMPACT INVERTER (R32) / MID STATIC

UM36F N20

(Unit : mm)

	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Hole
5	Remote Controller Cable Hole
6	Air Inlet
7	Air Outlet
8	Air Filters
9	Control Cover



# CEILING CONCEALED DUCT

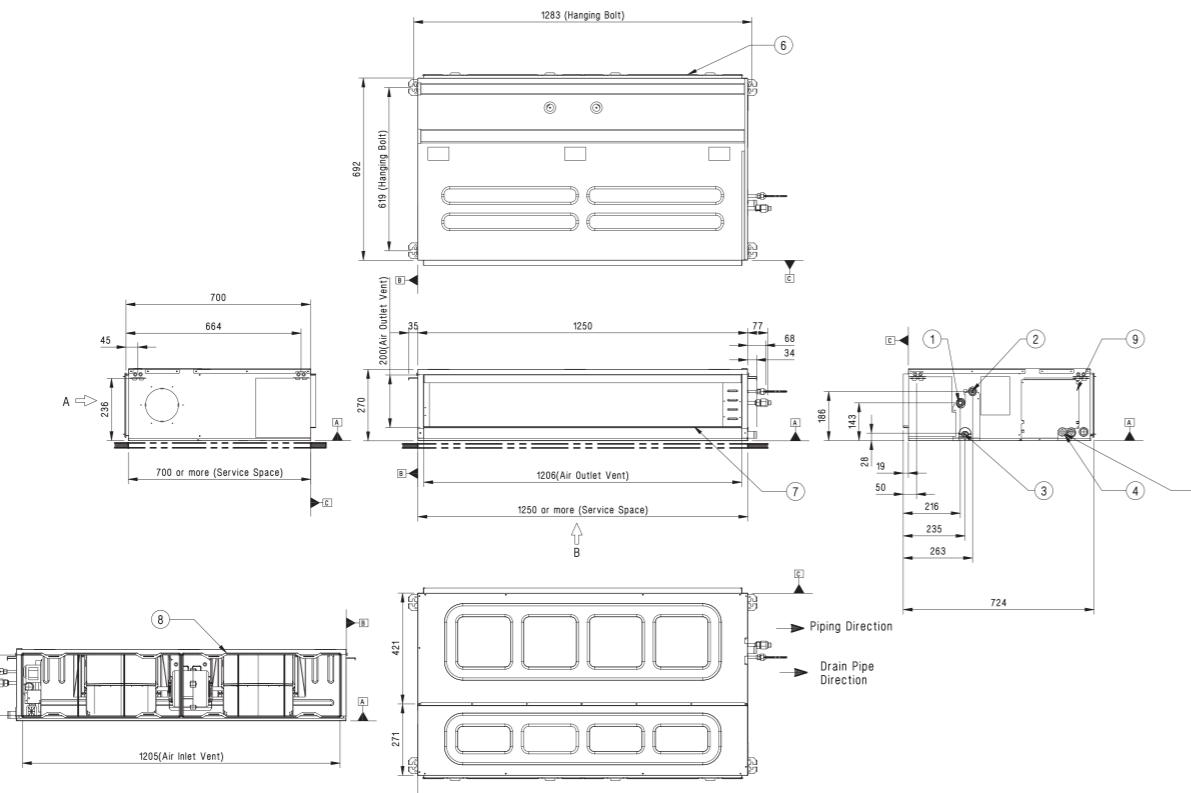
## CEILING CONCEALED DUCT

### STANDARD INVERTER (R32) / MID STATIC

UM42F N20

(Unit : mm)

	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Hole
5	Remote Controller Cable Hole
6	Air Inlet
7	Air Outlet
8	Air Filters
9	Control Cover

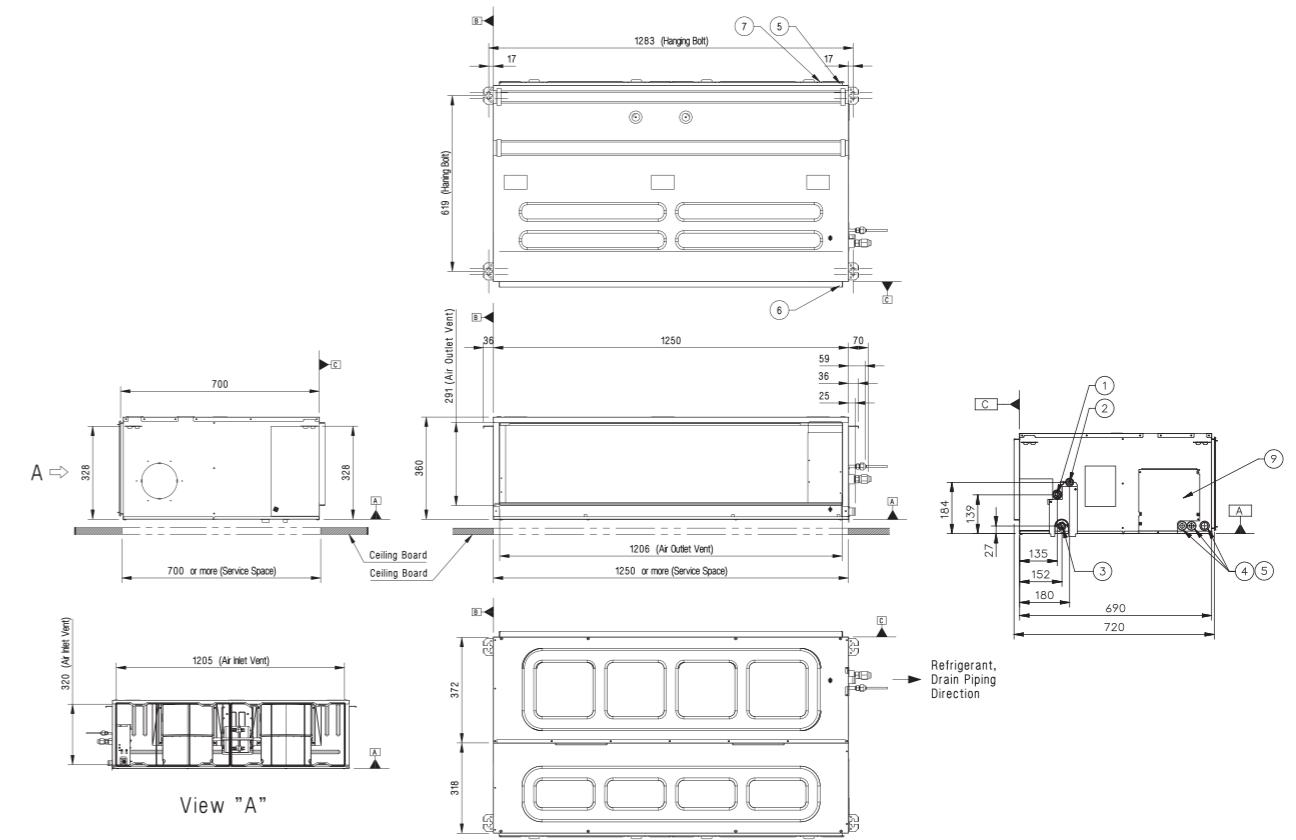


### STANDARD INVERTER (R32) / MID STATIC

UM48F N30 / UM60F N30

(Unit : mm)

	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Hole
5	Remote Controller Cable Hole
6	Air Inlet
7	Air Outlet
8	Air Filters
9	Control Cover



# CEILING CONCEALED DUCT

COMMERCIAL

SINGLE SPLIT

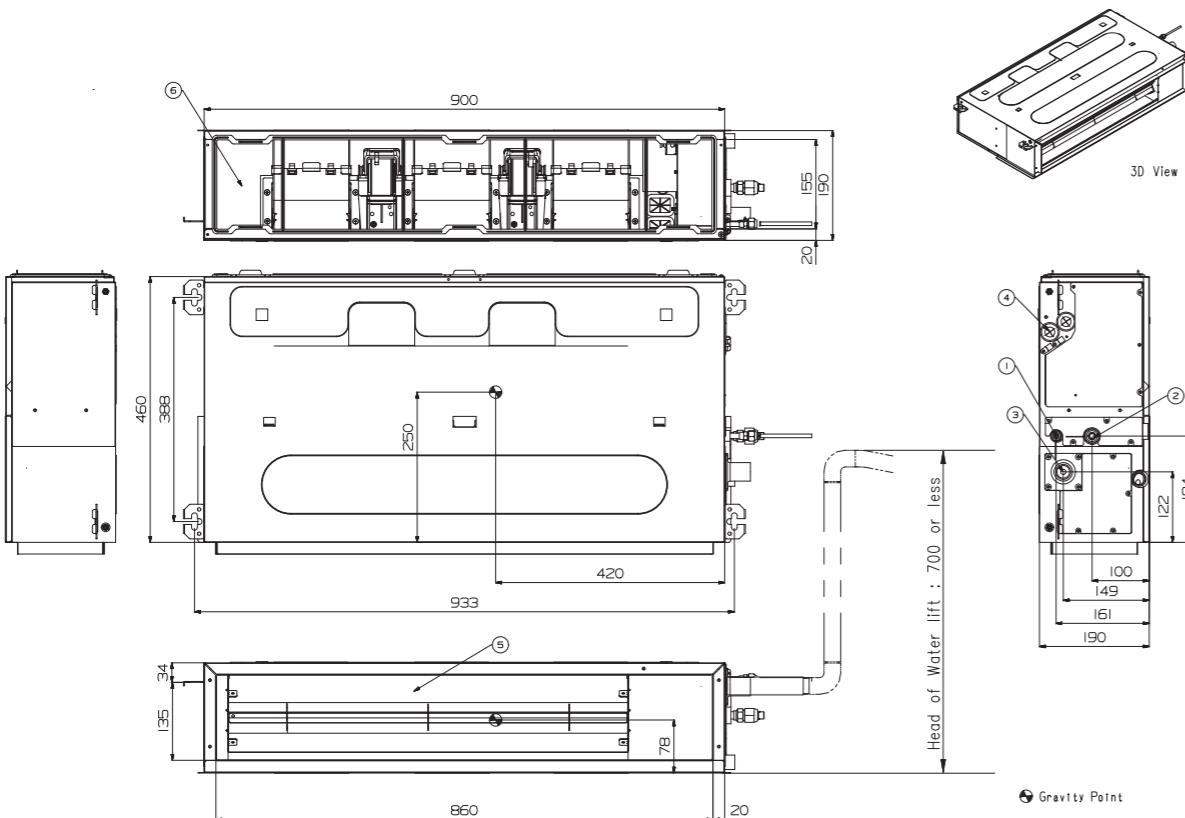
## CEILING CONCEALED DUCT

### STANDARD INVERTER (R32) / LOW STATIC

CL09F N50 / CL12F N50

(Unit : mm)

	PART NAME
1	Liquid Pipe Connection
2	Gas Pipe Connection
3	Drain Pipe Connection
4	Power Supply Connection
5	Air Discharge
6	Air Suction

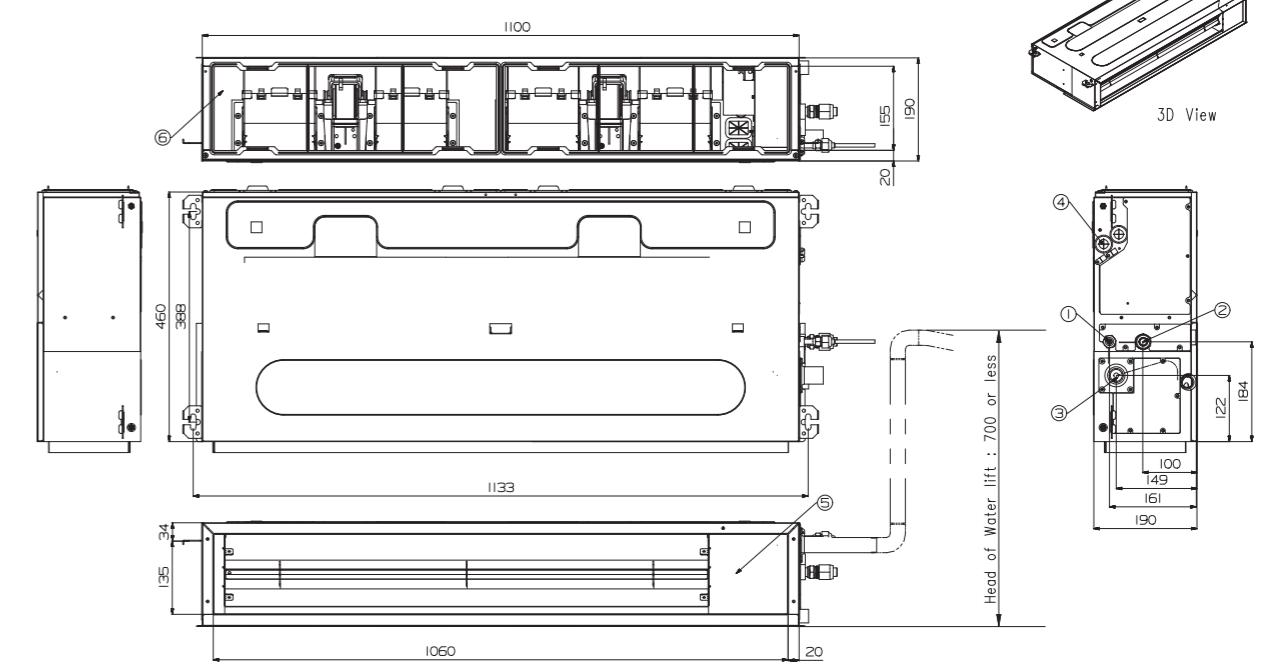


### STANDARD / COMPACT INVERTER (R32) / LOW STATIC

CL18F N60

(Unit : mm)

	PART NAME
1	Liquid Pipe Connection
2	Gas Pipe Connection
3	Drain Pipe Connection
4	Power Supply Connection
5	Air Discharge
6	Air Suction



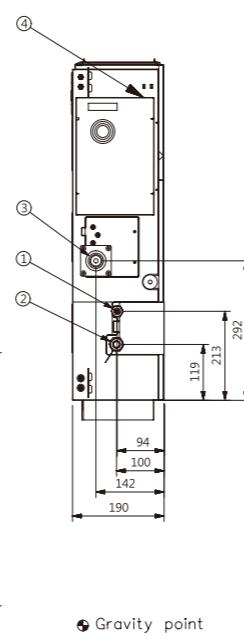
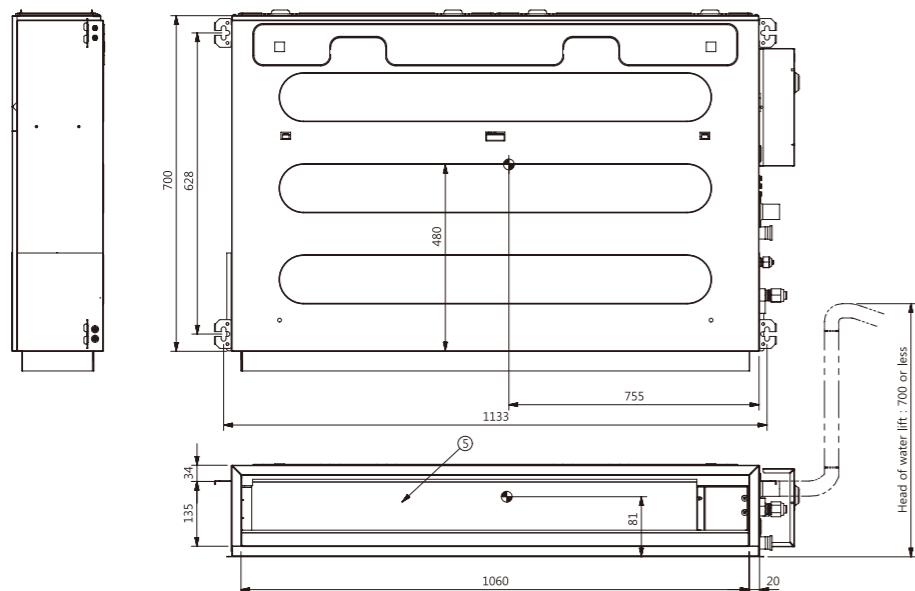
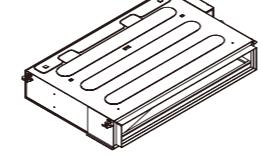
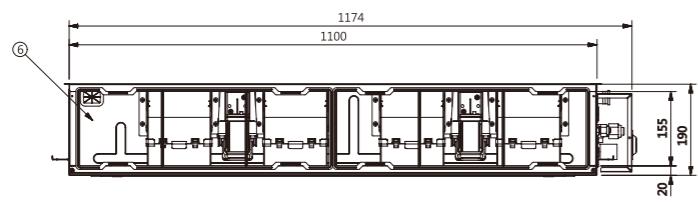
## CEILING CONCEALED DUCT

STANDARD / COMPACT INVERTER (R32) / LOW STATIC

CL24F N30

(Unit : mm)

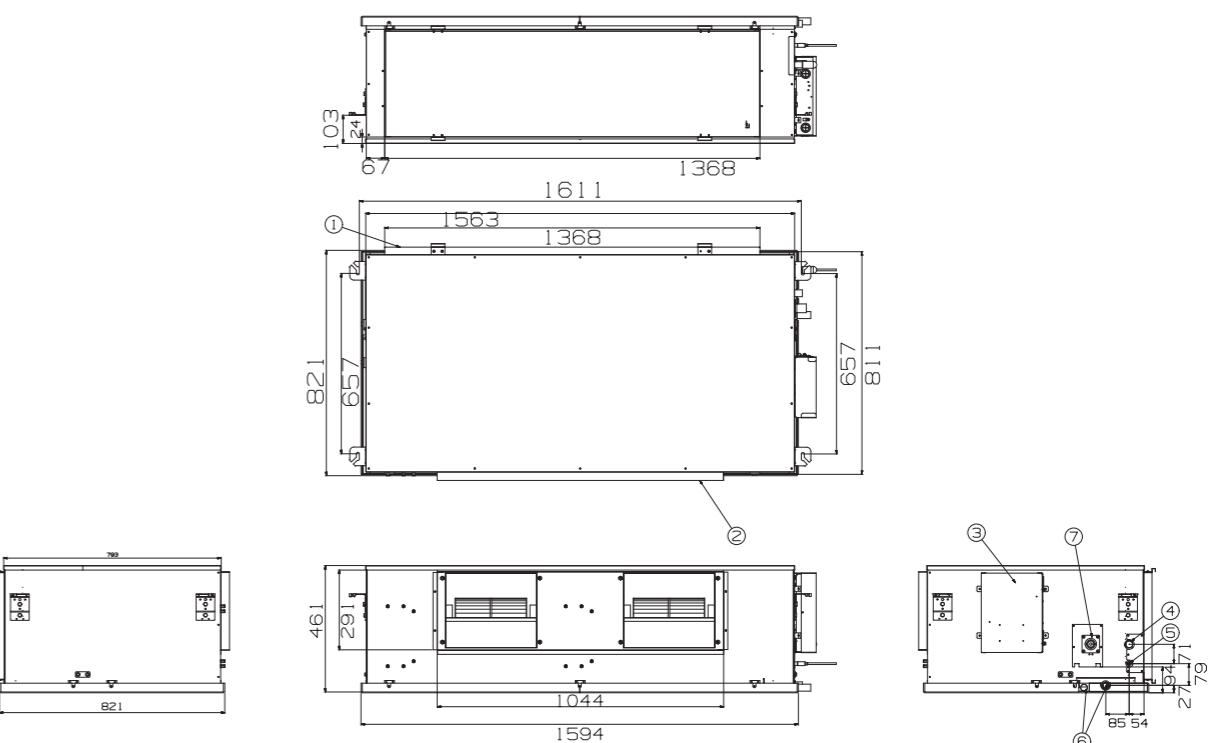
	PART NAME
1	Liquid Pipe Connection
2	Gas Pipe Connection
3	Drain Pipe Connection
4	Power Supply Connection
5	Air Discharge
6	Air Suction

STANDARD INVERTER (R410A) / HIGH STATIC

UB70 N94 / UB85 N94

(Unit : mm)

	PART NAME
1	Air Suction Flange
2	Air Discharge Flange
3	Control Box
4	Gas Piping Connection
5	Liquid Pipe Connection
6	Drain Pipe Connection
7	Drain Pump (Option)



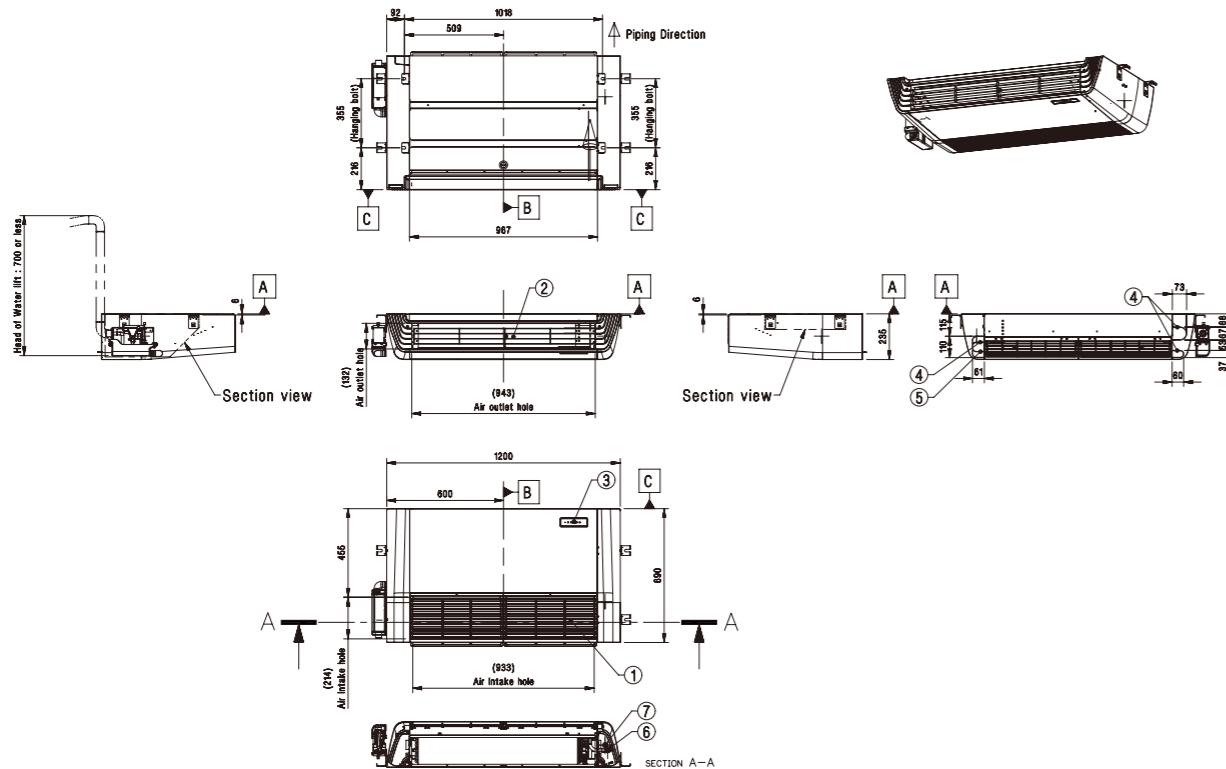
## CEILING SUSPENDED

## H-INVERTER (R32)

UV18FH N10

(Unit : mm)

	PART NAME
1	Air Inlet
2	Air Outlet
3	Remote Controller Signal Receiver
4	Drain Hose Routing Hole
5	Refrigerant Pipe and Routing Hole
6	Gas Pipe Connection
7	Liquid Pipe Connection

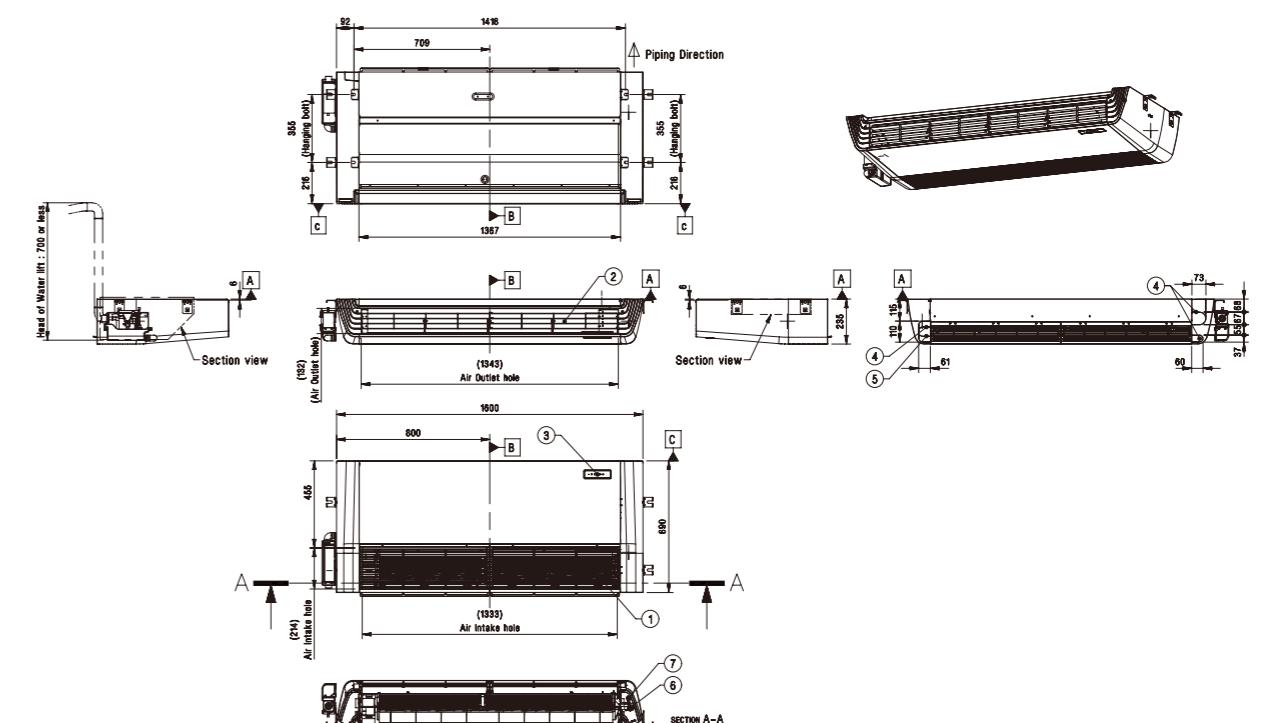


## H-INVERTER (R32)

UV24FH N20 / UV30FH N20 / UV36FH N20 / UV42FH N20

(Unit : mm)

	PART NAME
1	Air Inlet
2	Air Outlet
3	Remote Controller Signal Receiver
4	Drain Hose Routing Hole
5	Refrigerant Pipe and Routing Hole
6	Gas Pipe Connection
7	Liquid Pipe Connection



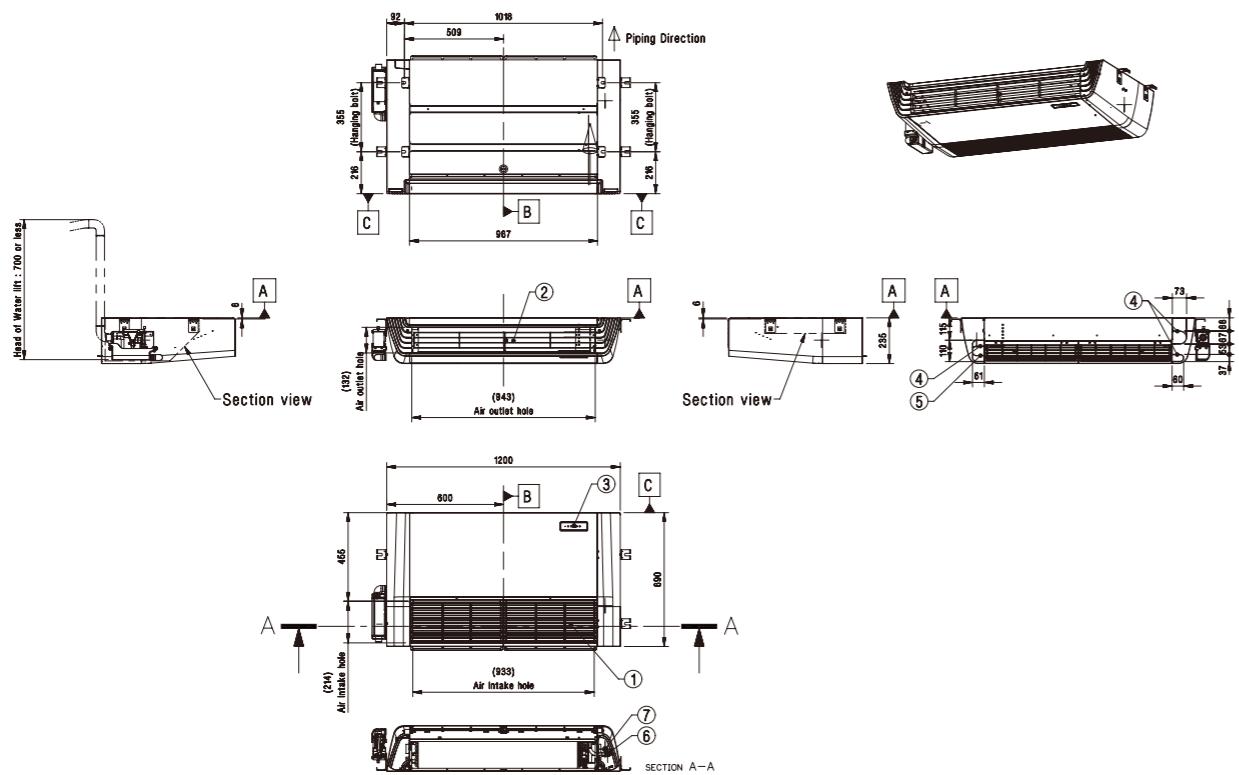
## CEILING SUSPENDED

STANDARD / COMPACT INVERTER (R32)

UV18F N10 / UV24F N10 / UV30F N10

(Unit : mm)

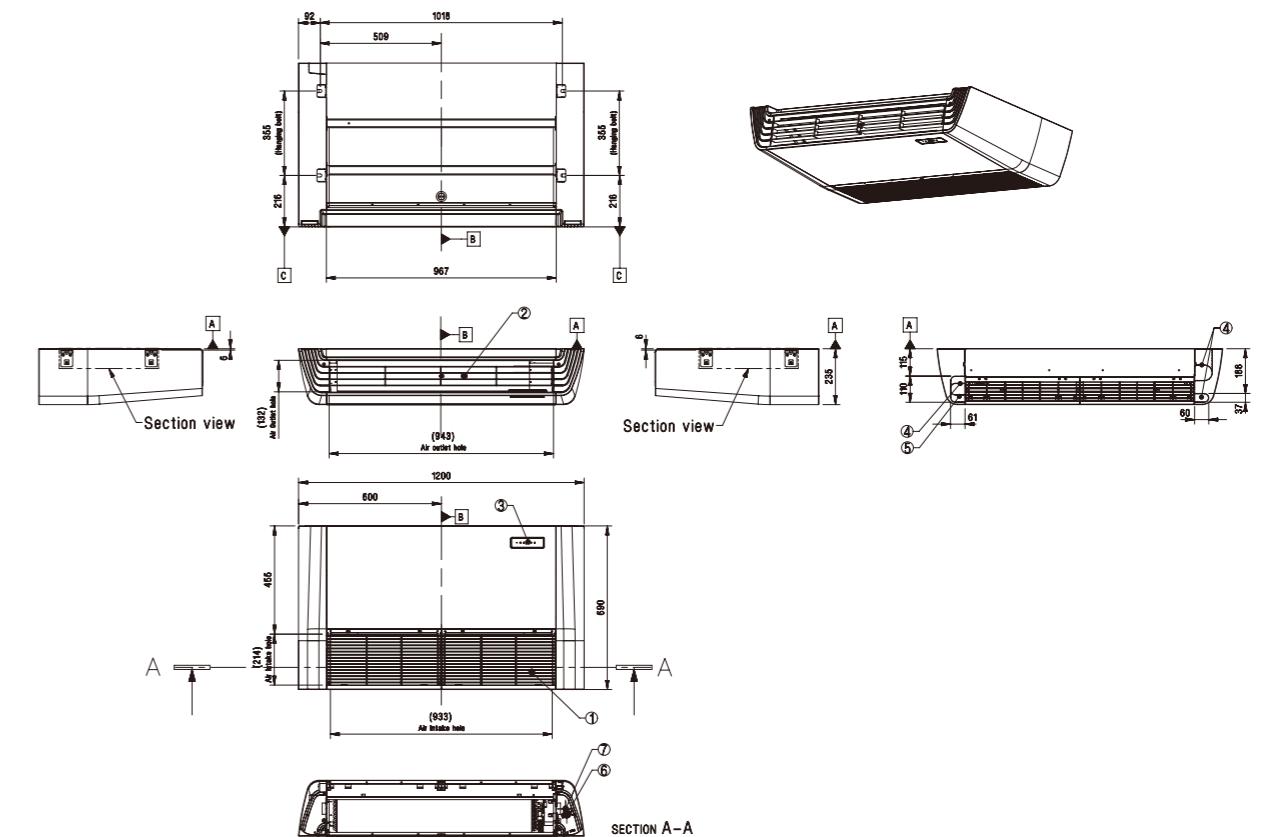
PART NAME	
1	Air Inlet
2	Air Outlet
3	Remote Controller Signal Receiver
4	Drain Hose Routing Hole
5	Refrigerant Pipe and Routing Hole
6	Gas Pipe Connection
7	Liquid Pipe Connection

STANDARD INVERTER (R32)

UV36F N20 / UV42F N20 / UV48F N20 / UV60F N20

(Unit : mm)

PART NAME	
1	Air Inlet
2	Air Outlet
3	Remote Controller Signal Receiver
4	Drain Hose Routing Hole
5	Refrigerant Pipe and Routing Hole
6	Gas Pipe Connection
7	Liquid Pipe Connection



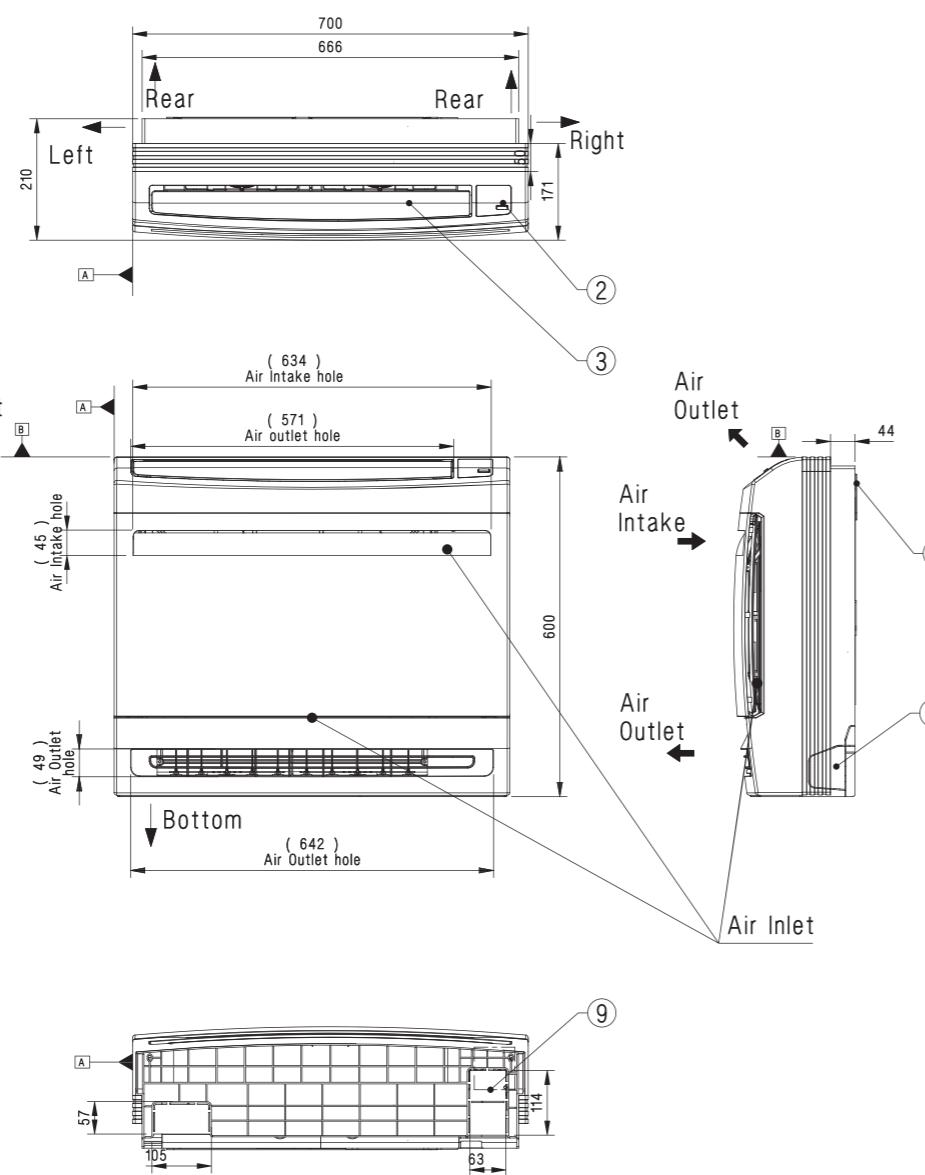
## CONSOLE

## STANDARD INVERTER (R32)

UQ09 NAO / UQ12 NAO / UQ18 NAO

(Unit : mm)

	PART NAME
1	Air Suction Grille
2	Remote Controller Signal Receiver
3	Air Discharge Grille
4	Gas Pipe Connection
5	Liquid Pipe Connection
6	Drain Hose Connection
7	Refrigerant / Drain Pipe & Cable Routing Hole
8	Installation Plate
9	Terminal Block for Power Supply & Communication

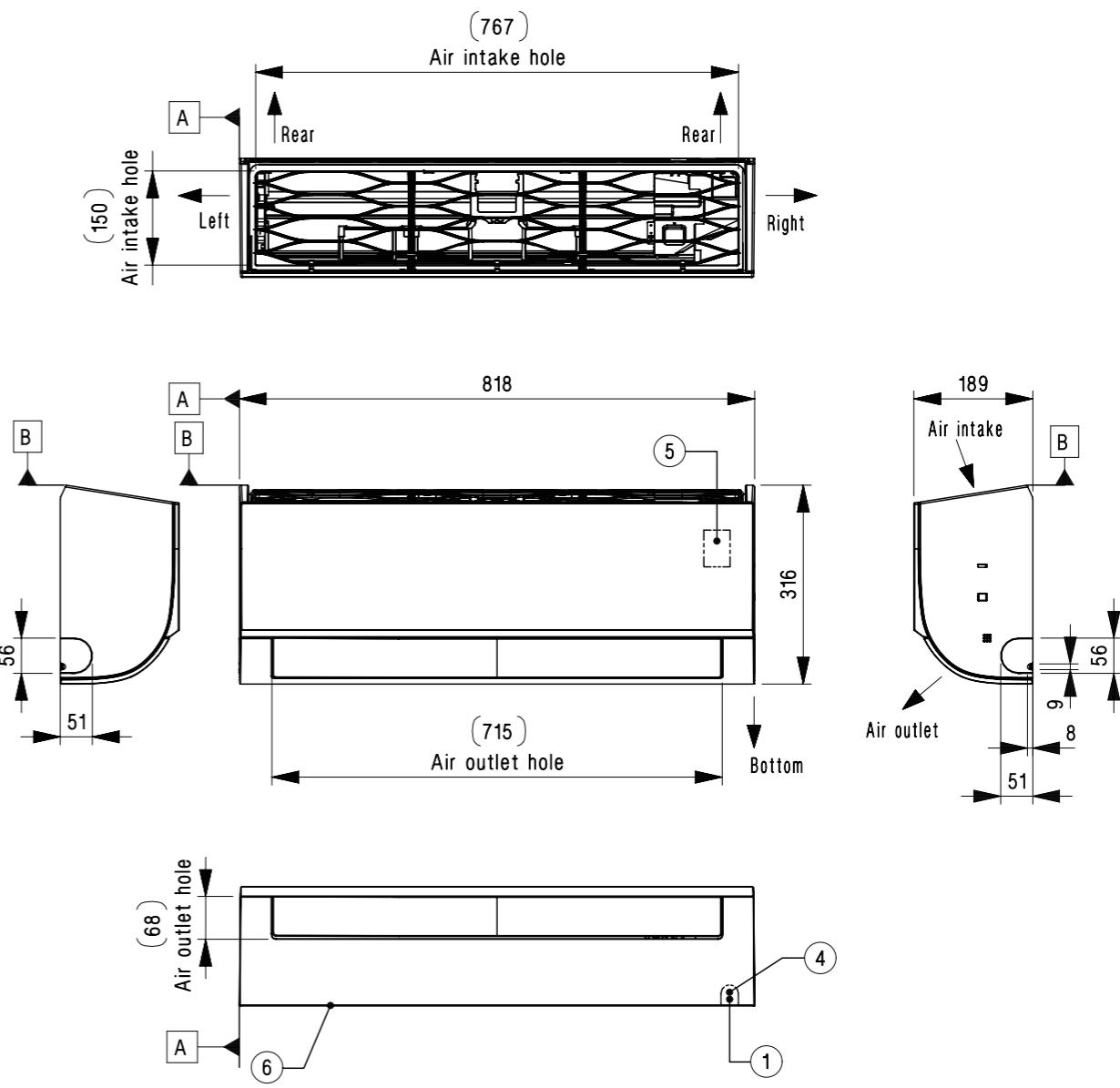


## STANDARD INVERTER (R32)

MJ09PC NSJ / MJ12PC NSJ

(Unit : mm)

	PART NAME
1	Refrigerant / Drain Pipe and Cable Routing Hole
2	Installation Plate
3	Drain Hose Connection
4	Terminal Block for Power Supply Communication
5	Display & Remote Controller Signal Receiver
6	Decoration Cover



## WALL MOUNTED

STANDARD INVERTER (R32)

MJ18PC NSJ / MJ24PC NSJ

(Unit : mm)

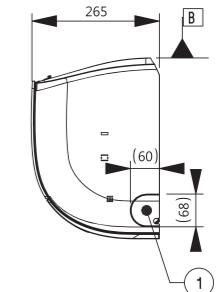
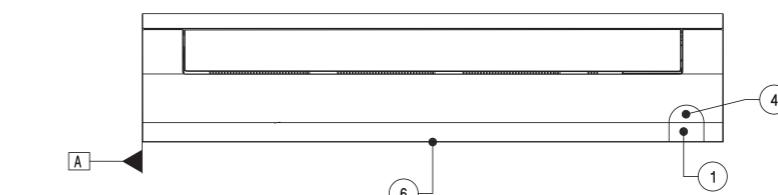
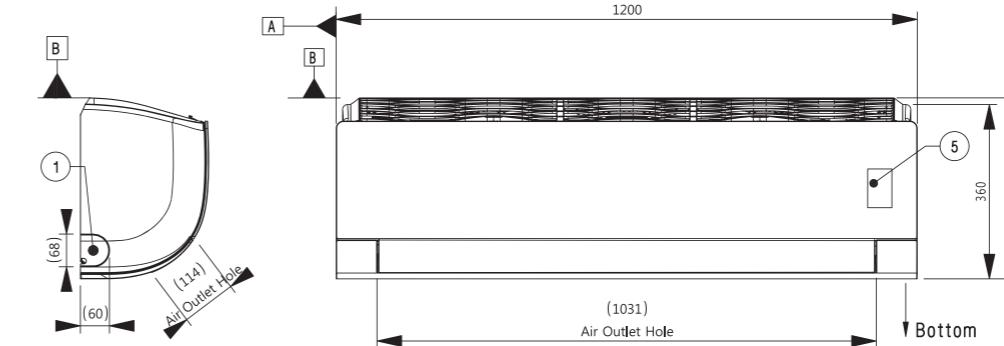
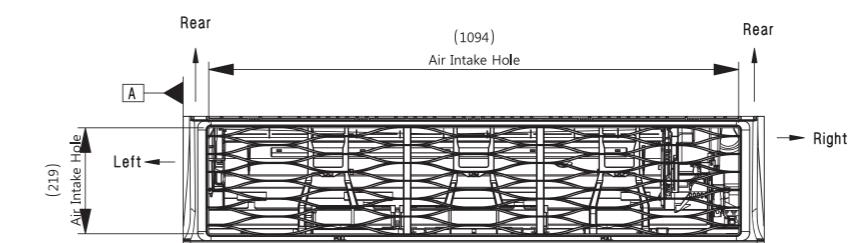
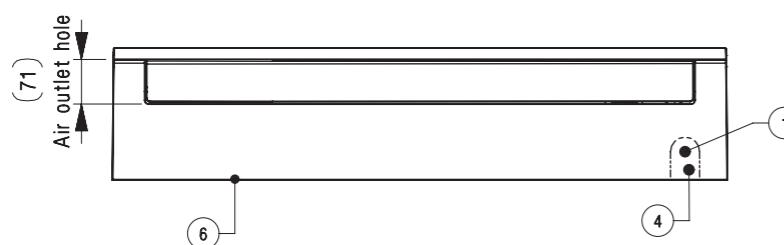
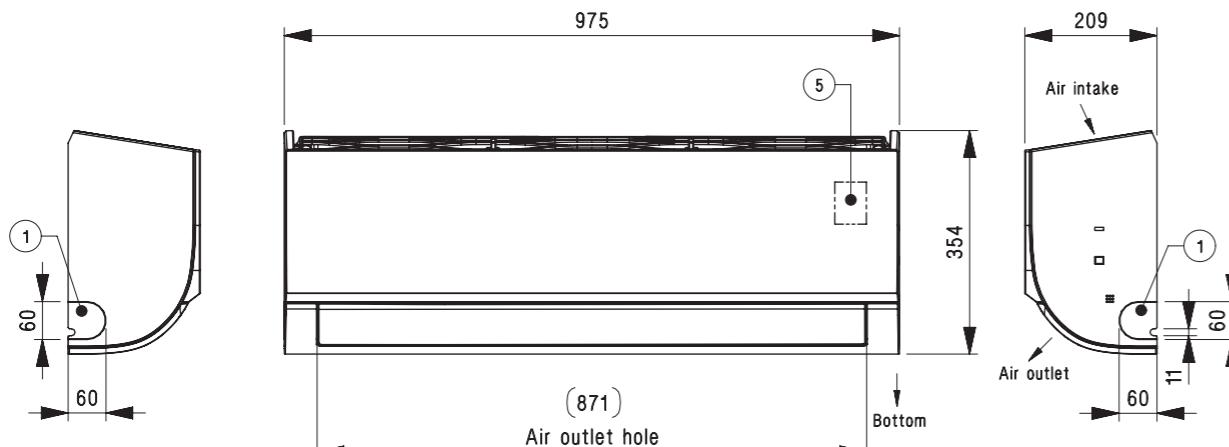
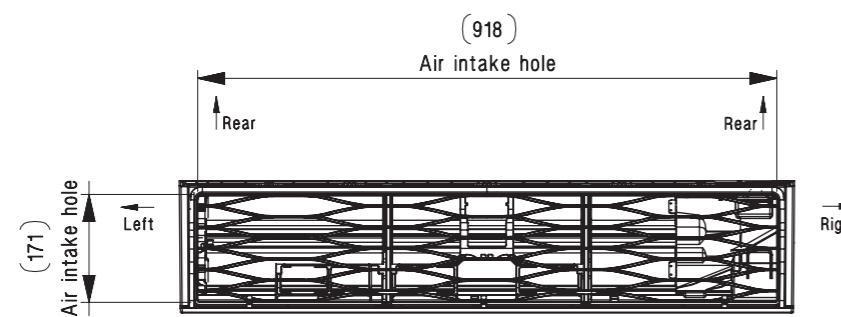
	PART NAME
1	Refrigerant / Drain Pipe and Cable Routing Hole
2	Installation Plate
3	Drain Hose Connection
4	Terminal Block for Power Supply Communication
5	Display & Remote Controller Signal Receiver
6	Decoration Cover

STANDARD / COMPACT INVERTER (R32)

US30F NRO / US36F NRO

(Unit : mm)

	PART NAME
1	Refrigerant / Drain Pipe and Cable Routing Hole
2	Installation Plate
3	Drain Hose Connection
4	Terminal Block for Power Supply Communication
5	Display & Remote Controller Signal Receiver
6	Decoration Cover



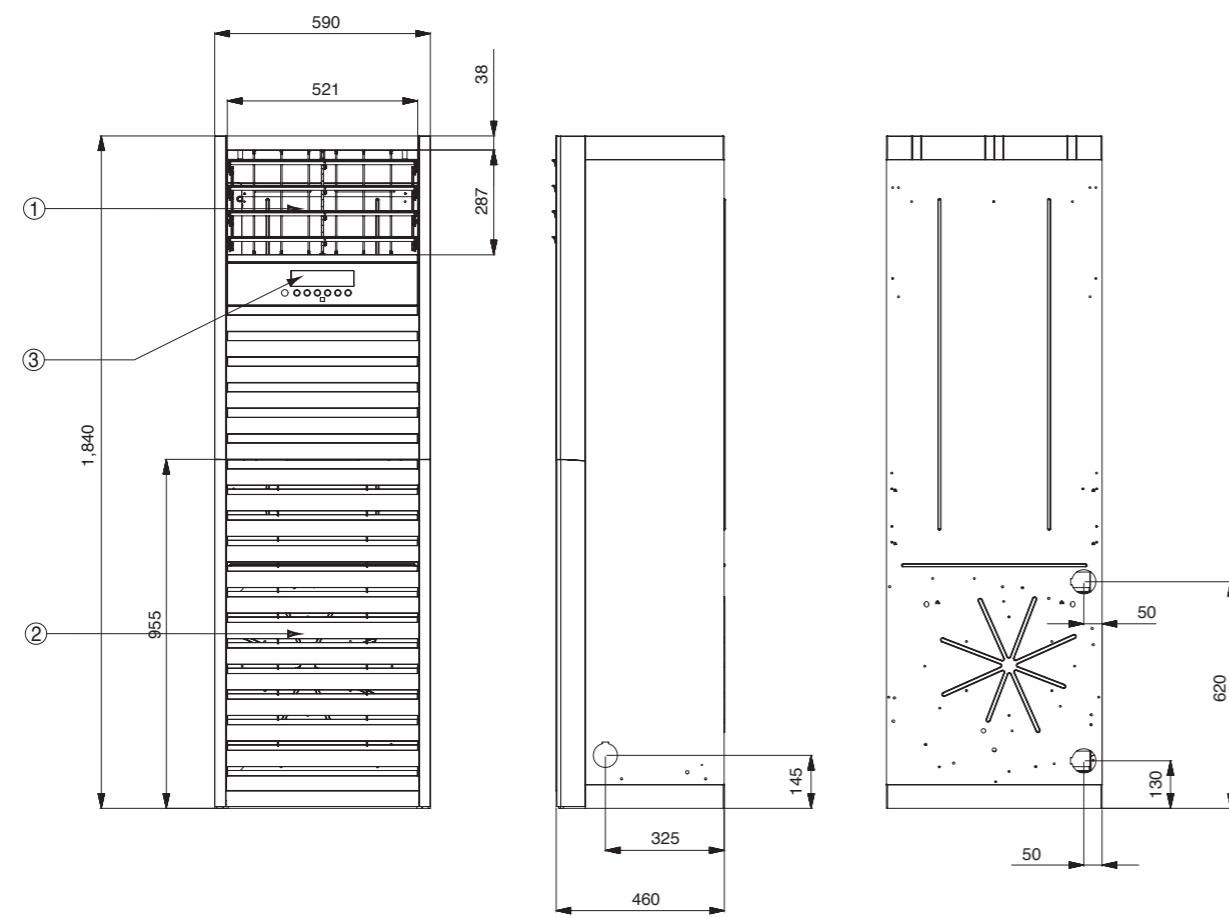
## FLOOR STANDING

STANDARD INVERTER (R410A)

UP48 NT2

(Unit : mm)

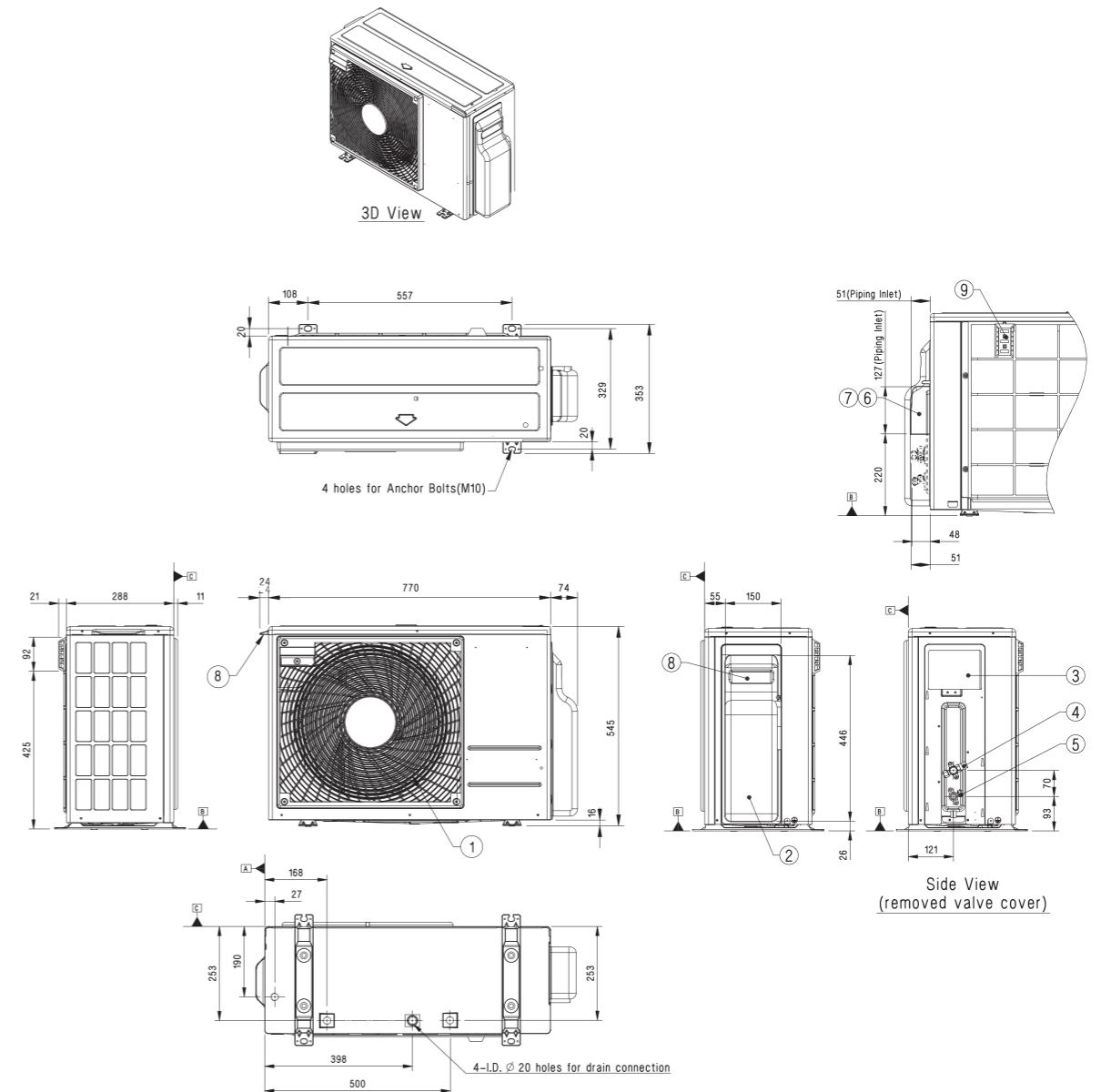
PART NAME	
1	Front Air Discharge Grille
2	Display & Single Receiver
3	Air Suction Grille

HIGH / STANDARD / COMPACT INVERTER (R32)

UUA1 ULO

(Unit : mm)

PART NAME	
1	Air Outlet
2	Control Cover & SVC Valve Cover
3	Power and Communication Cable Connection
4	Gas Pipe Connection
5	Liquid Pipe Connection
6	Power and Communication Cable Routing hole
7	Refrigerant Pipe Routing Hole
8	Handle
9	Intake Air Temperature Sensor Cover



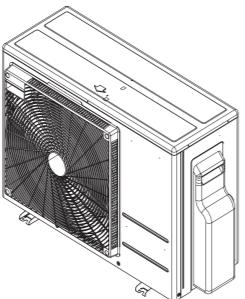
## UNIVERSAL OUTDOOR

HIGH / STANDARD / COMPACT INVERTER (R32)

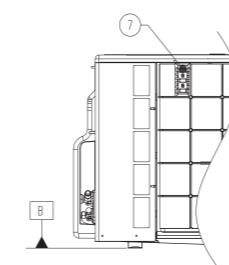
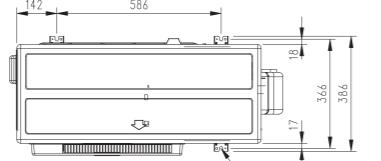
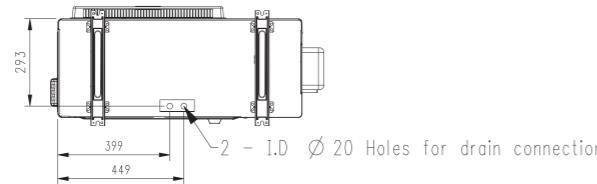
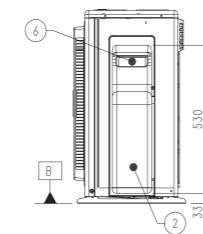
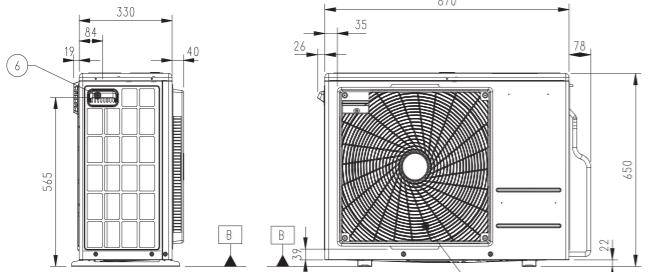
UUB1 U20

(Unit : mm)

	PART NAME
1	Air Outlet
2	Control Cover & SVC Valve Cover
3	Power and Communication Cable Connection
4	Gas Pipe Connection
5	Liquid Pipe Connection
6	Handle
7	Intake Air Temperature Sensor Cover



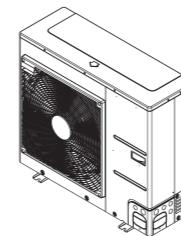
3D View

Side View  
(removed valve cover)HIGH / STANDARD / COMPACT INVERTER (R32)

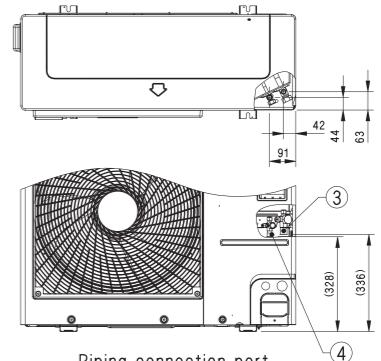
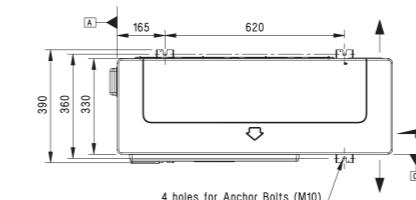
UUC1 U40

(Unit : mm)

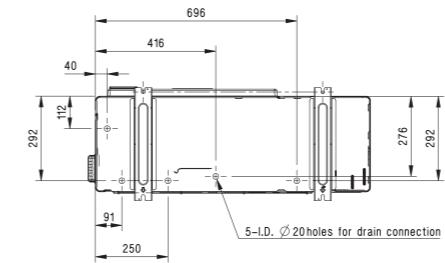
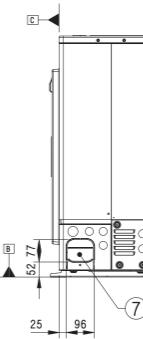
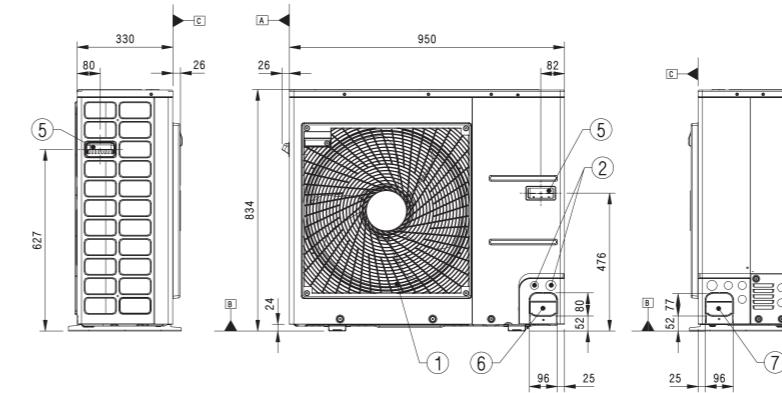
	PART NAME
1	Air Outlet
2	Power and Communication Cable Hole
3	Gas Pipe Connection
4	Liquid Pipe Connection
5	Handle
6	Pipe Routing Hole (Front)
7	Pipe Routing Hole (Side)
8	Pipe Routing Hole (Back)



3D View



Piping connection port



# UNIVERSAL OUTDOOR

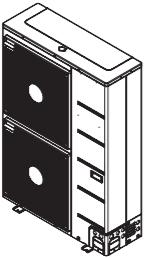
## UNIVERSAL OUTDOOR

### STANDARD INVERTER (R32)

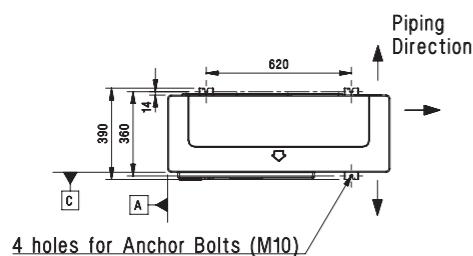
UUD1 U30 / UUD3 U30

(Unit : mm)

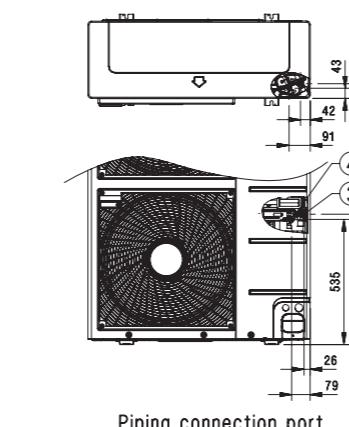
	PART NAME
1	Air Outlet
2	Power and Communication Cable Hole
3	Gas Pipe Connection
4	Liquid Pipe Connection
5	Handle
6	Pipe Routing Hole (Front)
7	Pipe Routing Hole (Side)
8	Pipe Routing Hole (Back)



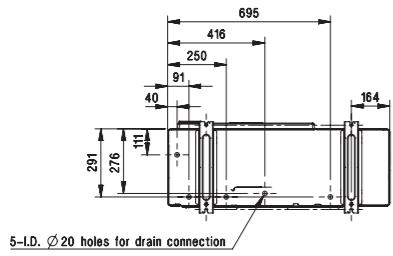
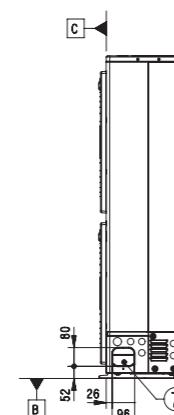
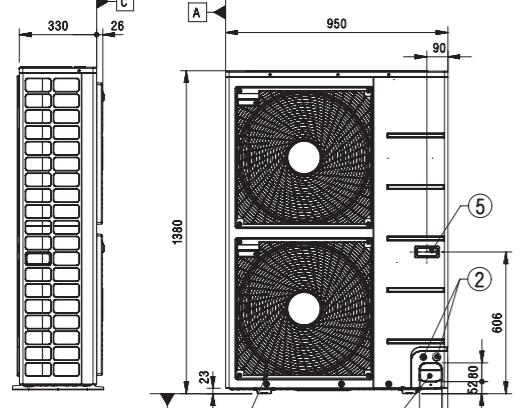
3D View



4 holes for Anchor Bolts (M10)



Piping connection port



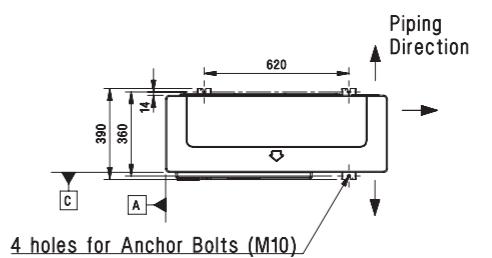
5-I.D. Ø 20 holes for drain connection

### STANDARD INVERTER (R410A)

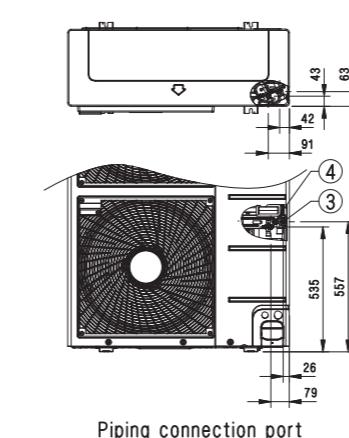
UU48W U32 / UU49W U32

(Unit : mm)

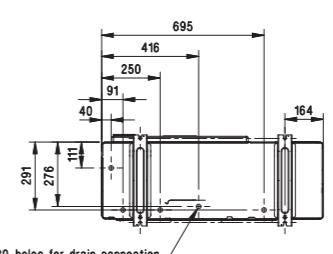
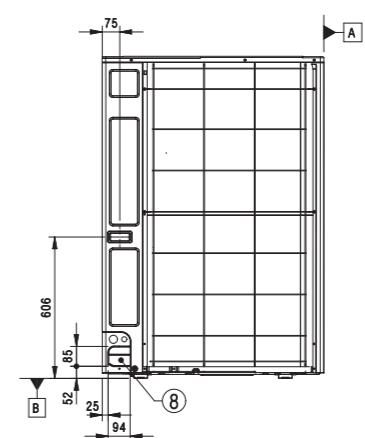
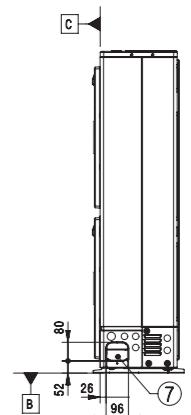
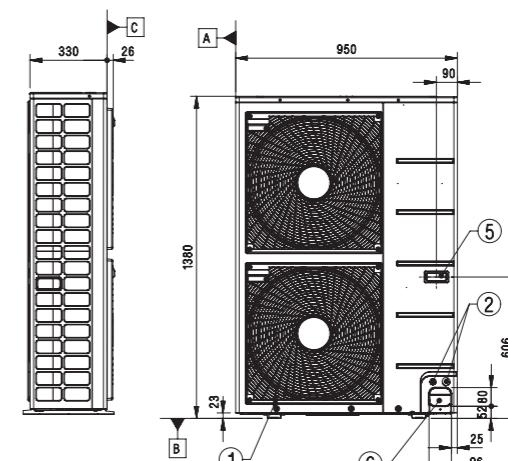
	PART NAME
1	Air Outlet
2	Power and Communication Cable Hole
3	Gas Pipe Connection
4	Liquid Pipe Connection
5	Handle
6	Pipe Routing Hole (Front)
7	Pipe Routing Hole (Side)
8	Pipe Routing Hole (Back)



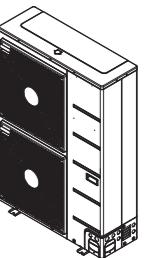
4 holes for Anchor Bolts (M10)



Piping connection port



5-I.D. Ø 20 holes for drain connection



3D View

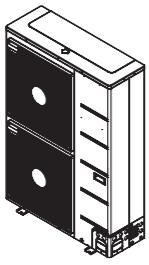
## UNIVERSAL OUTDOOR

STANDARD INVERTER (R410A)

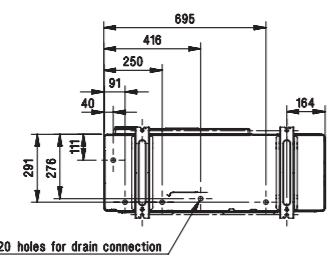
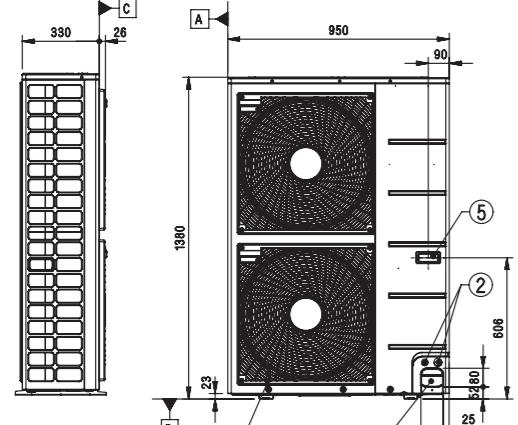
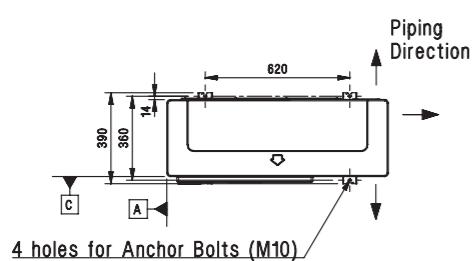
UU70W U34

(Unit : mm)

	PART NAME
1	Air Outlet
2	Power and Communication Cable Hole
3	Gas Pipe Connection
4	Liquid Pipe Connection
5	Handle
6	Pipe Routing Hole (Front)
7	Pipe Routing Hole (Side)
8	Pipe Routing Hole (Back)



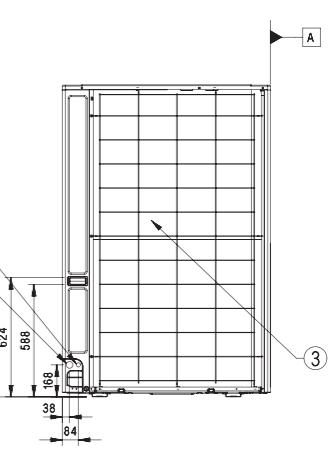
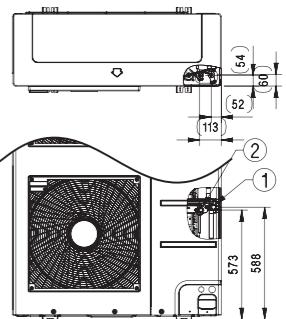
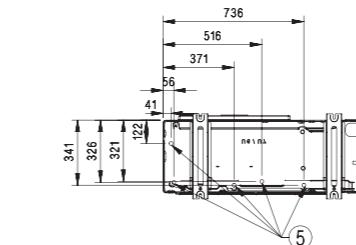
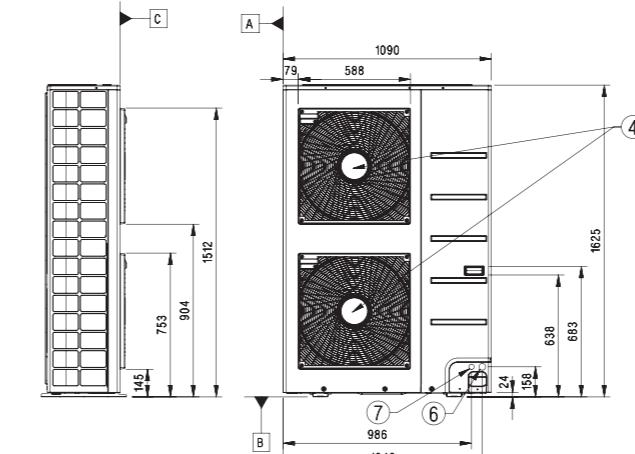
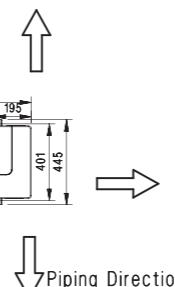
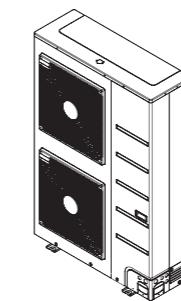
3D View

STANDARD INVERTER (R410A)

UU85W U74

(Unit : mm)

	PART NAME
1	Gas Piping Connection
2	Liquid Piping Connection
3	Air Inlet
4	Air Outlet
5	Drain Hole 22
6	Power and communication Cable Hole
7	Power and communication Cable Hole
8	Power and communication Cable Hole



## NOTE

NOTE