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Life's Good

2019 | AIR CONDITIONERS

AIR CONDITIONERS

2019

LG HVAC SOLUTION

LG Electronics

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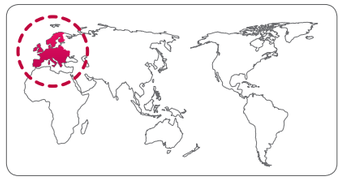
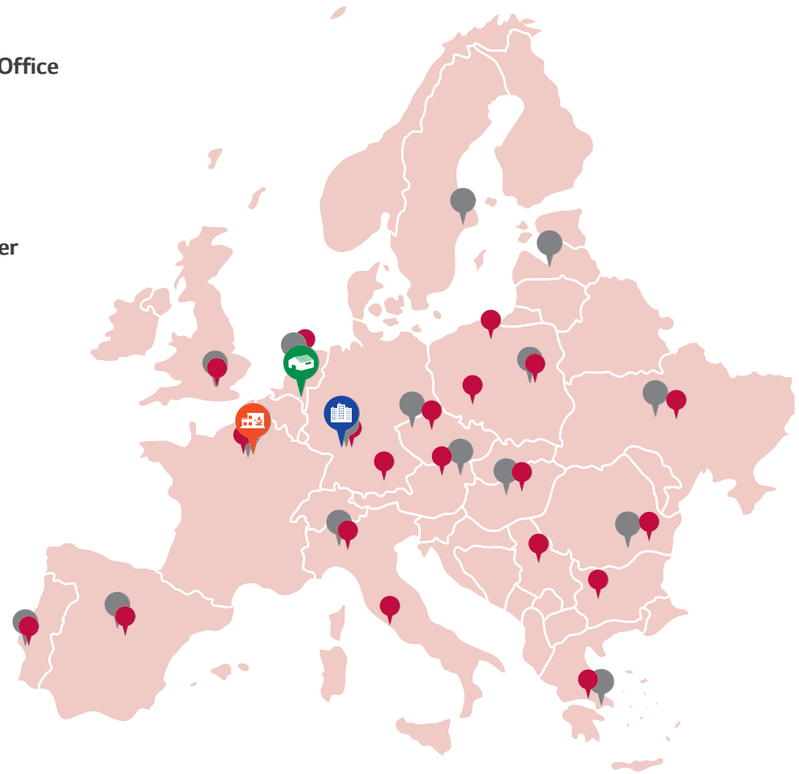
EUROPE SALES INFRASTRUCTURE

- 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

Ever since manufacturing Korea's first exclusively home designed air conditioner in 1968, LG has remained as a pioneer and an epitome of air conditioning innovation. LG has been the world's best selling manufacturer of residential air conditioning solutions. In 2008, LG accomplished the target sales for more than 100 million air conditioners. Encouraged by its success rate and technological leadership in the residential air conditioning sector, LG has expanded it's wings into system air conditioning as well.

LG has established itself as an inimitable / exemplary HVAC and energy solution provider, investing in new technologies and adding chillers, VRF systems, and building management systems (BMS) to its comprehensive product portfolio. Including a wide range of innovative solutions, LG delivers 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. LG also operates several state-of-the-art R&D facilities all across the planet.

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

INDEX

R32 REFRIGERANT

HIGHLY EFFICIENT
GREEN REFRIGERANT

R32 is environment friendly and classified as a highly efficient 'Go Green' refrigerant.

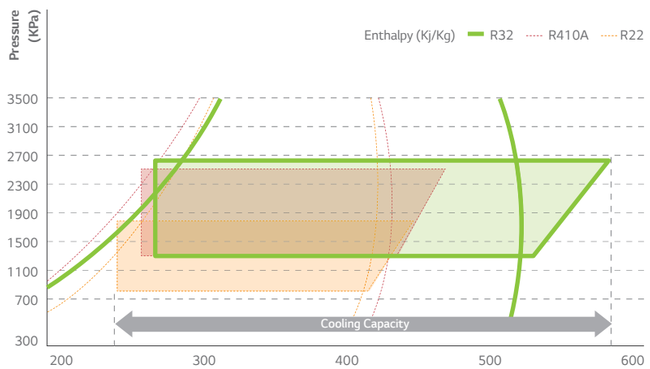
Reducing Global Warming & Ozone Layer Depletion

The quantity of R32 refrigerant used is appreciably low as compared to the R410A refrigerant. Consequently, this results in decreasing the potential of global warming and minimal depletion of the ozone layer. Comparative case studies of the different refrigerants are indicated in the table and chart as below:

	R410A	R32
Composition	Blend of R32 50% + R125 50%	Pure R32 (No blend)
GWP (Global Warming Potential)	2087.5	675

High Refrigerant Compression Rate

High refrigerant compression rates lead to high capacity as compared to existing refrigerant R22, and R410A.



RESIDENTIAL

WALL MOUNTED MULTI SPLIT

WALL MOUNTED

LINE-UP

INDOOR UNIT

○ Single Split Only ○● Compatible ● Multi Split Only

MODEL		KBTU	5	7	9	12	15	18	24
		KW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
Wall mounted	Athena	R410A, Wi-Fi			○ H09AP.NSM	○ H12AP.NSM			
	ARTCOOL Gallery	NEW, R32			○● A09FR.NSF	○● A12FR.NSF			
	ARTCOOL Mirror	R32, Wi-Fi		● AM07BP.NSJ	○● AC09BQ.NSJ	○● AC12BQ.NSJ		○● AC18BQ.NSK	○● AC24BQ.NSK
	ARTCOOL Silver	NEW, R32, Wi-Fi			○● AC09SQ.NSJ	○● AC12SQ.NSJ		○● AC18SQ.NSK	
	Deluxe	R32, Wi-Fi		● DM07RP.NSJ	○● DC09RQ.NSJ	○● DC12RQ.NSJ		○● DC18RQ.NSK	○● DC24RQ.NSK
	Sirius	R32, Wi-Fi	● PM05SP.NSJ	● PM07SP.NSJ	○● PC09SQ.NSJ	○● PC12SQ.NSJ	● PM15SP.NSJ	○● PC18SQ.NSK	○● PC24SQ.NSK
	Standard	R32			○ S09EQ.NSJ	○ S12EQ.NSJ		○ S18EQ.NSK	○ S24EQ.NSK

OUTDOOR UNIT

○ Single Split Only ○● Compatible ● Multi Split Only

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
Single	Athena	R410A, NEW	○ H09APU24	○ H12APU24							
	ARTCOOL Gallery	R32	○ A09FR.UL2	○ A12FR.UL2							
	ARTCOOL Mirror	R32	○ AC09BQ.UA3	○ AC12BQ.UA3			○ AC18BQ.UL2		○ AC24BQ.U24		
	ARTCOOL Silver	R32	○ AC09BQ.UA3	○ AC12BQ.UA3			○ AC18BQ.UL2				
	Deluxe	R32	○ DC09RQ.UL2	○ DC12RQ.UL2			○ DC18RQ.UL2		○ DC24RQ.U24		
	Sirius	R32	○ PC09SQ.UA3	○ PC12SQ.UA3			○ PC18SQ.UL2		○ PC24SQ.U24		
	Standard	R32	○ S09EQ.UA3	○ S12EQ.UA3			○ S18EQ.UL2		○ S24EQ.U24		

* ARTCOOL Gallery is available in May, '19
** Refer to multi split line up for 5, 7, 15KBTU indoor unit connection.

WALL MOUNTED

Athena I Artcool I Deluxe I Sirius I Standard

ATHENA
DUAL Inverter

LG Athena offers one of the most comprehensive air conditioning solutions with supreme energy efficiency and providing a tranquil environment.

ARTCOOL Gallery
DUAL Inverter

The design of LG air conditioners is fashionably elegant in such a way that it reigns supreme compared to others. Customise your space.

ARTCOOL
DUAL Inverter

In addition to modern lines and classic style, LG ARTCOOL offers the most outstanding air conditioning solution in a complete and attractive package.

DELUXE
DUAL Inverter

LG retains it's leading position in supplying RACs, incorporating the essential and fundamental elements of air conditioner solutions.

SIRIUS
DUAL Inverter

New Sirius is a compact size unit with powerful cooling performance and in intelligible and convenient design.

STANDARD
DUAL Inverter

Standard model displays all the sophisticated features of general RAC integrated with LG's more advanced technology.

WALL MOUNTED

FEATURE OVERVIEW

INVERTER COMPRESSOR 10 YEAR WARRANTY

Energy Efficiency: Cooling / Heating

		CORE TECH		SMART		ENERGY EFFICIENCY		DURABILITY	HEALTH			FAST COOLING & HEATING			COMFORT			
	Energy Efficiency	Dual Inverter Compressor	R32 Refrigerant	Embedded Wi-Fi	Smart Diagnosis	Active Energy Control	Energy Display	Gold Fin™	Plasmaster Ionizer PLUS	Dual Protection Filter	Auto Cleaning	Jet Cool	4 Way Swing	Fast Heating	Comfort Air	Low Noise 19dB	Silent Mode 3dB	Quick & Easy Installation
Athena 	9k, 12k Cooling A+++ / Heating A+++	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ARTCOOL Gallery 	9k, 12k Cooling A / Heating A	●	●	●[3] (Ready)				●			●	●	● 3 way	●		●	●	●
ARTCOOL  7, 9, 12, 18, 24 kBtu	9k, 12k, 18k, 24k Cooling A++ / Heating A+	●	●	●	●	●	●	●	●		●	●	●	●	●	● 9,12k Only	●	●
NEW 9, 12, 18 kBtu	7k Multi[4]	●	●	●				●	●		●	●	●	●	●	●	●	●
Deluxe 	9k, 12k, 18k, 24k Cooling A++ / Heating A++	●	●	●	●	●	●	●	●		●	●	●	●	●	● 9,12k Only	●	●
	7k Multi[4]	●	●	●				●	●		●	●	●	●	●	●	●	●
Sirius 	9k, 12k, 18k, 24k Cooling A++ / Heating A+	●	●	●	●	●	●	●	●		●	●	●	●	●	● 9,12k Only	●	●
	5k, 7k, 15k Multi[4]	●	●	●				●	●		●	●	●	●	●	●	●	●
Standard 	9k, 12k, 18k, 24k Cooling A++ / Heating A+	●	●		●	●	●	●			●	●	● 18, 24K Only	●	●	● 9,12k Only	●	●

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 (PWFMDD200)
4. Please refer to the specifications of Multi outdoor units.

CORE TECH

Dual Inverter Compressor

• What is the Dual Inverter Compressor?

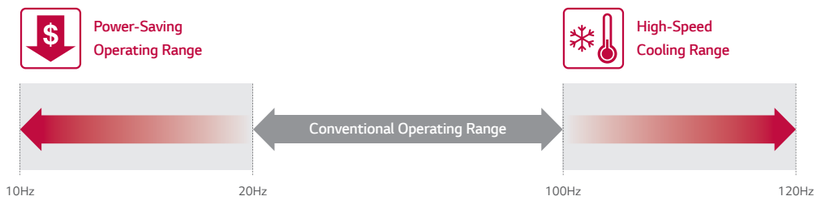
A compressor is the heart of an air conditioner, and monitoring whether it works properly, effectively, or noisily that can cause stress as well as cost more money. LG's Dual Inverter Compressor provides an effective solution, resulting in an air conditioner that cools faster, lasts longer, and operates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

Dual Inverter
COMPRESSOR



• 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 the surrounding pipework.

R32 Refrigerant

• 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-friendly refrigerants. In order to reduce environmental destruction, refrigerant R32 is internationally acclaimed for being Eco-friendly. It has the unprecedented feature as a low volume refrigerant that is as efficient as any conventional refrigerant; thus qualifying as a green refrigerant.

• How it Works

Utilising a small amount of the R32 refrigerant also qualifies it to be a highly green efficient system.

Alleviate Global Warming & Ozone Layer Destruction

R32 efficiently works even in small volume compared to existing R410A refrigerant, which decreases potential hazard of global worming.

High Compressibility

R32's high compressibility rate gives more powerful cooling performance and efficiency compared to existing refrigerant R22 and R410A.

	R410A	R32
Composition	Blend of R32 50% + R125 50%	Pure R32 (No blend)
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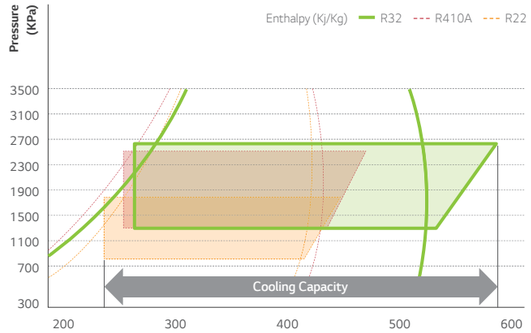


• Benefit

Eco-friendly Refrigerants that can prevent environmental pollution.

High-Efficiency & High-Performance Refrigerant

Reduce refrigerant charge by 15% R410A Preparation for an increase in efficiency for both heating and cooling. R410A Preparation for easy install. (R410A blended refrigerant, R32 single refrigerant)

WALL MOUNTED KEY FEATURES

SMART

Embedded Wi-Fi

Control your air conditioners by using Android or iOS based smartphones. This advanced technology provides you many benefits.

• LG Smart ThinQ

Download the 'LG SmartThinQ' app from the Google Downloads or the Appstore.

LG Smart ThinQ

ANDROID iOS

• How it Works

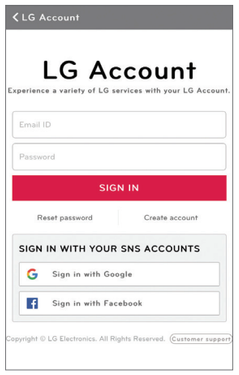
Embedded Wi-Fi modem

Enable "LG Smart ThinQ" on your air conditioner.

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

Easy Registration and Log-in

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



Wi-Fi Connectivity

Each individual member of your family can customise 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

Multi-Control

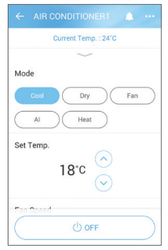
* Can be controlled by multiple users, but not simultaneously

• Benefit

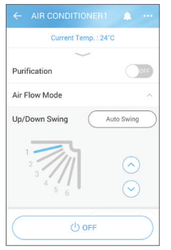
Simple operation for various functions

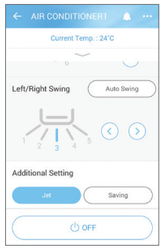
On/Off, Current Temp

Mode, Set Temp

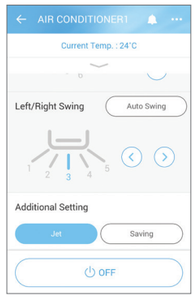


Vane Control

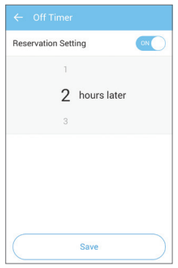




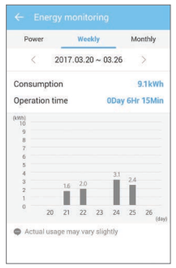
Straight forward Management



Reservation

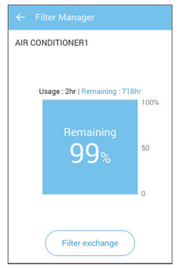


Energy Monitoring



Smart Diagnosis

Filter Management



Integrated Home Appliances Control

Control / Monitor all your LG appliances from one place.

Access your air conditioner anytime and from anywhere

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

WALL MOUNTED KEY FEATURES

SMART

Smart Diagnosis

Smart Diagnosis allows you to check setup, installation, troubleshooting and other information conveniently from your smartphone.

* Specifications may vary for each model.
* When connected to Multi ODU, Smart Diagnosis function may not be supported.

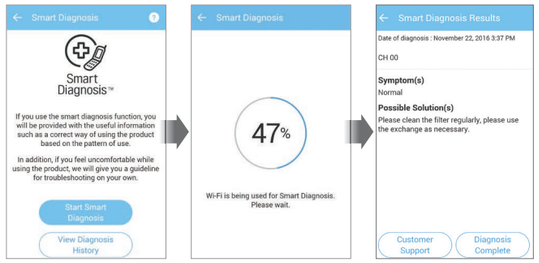
• What is the Smart Diagnosis?

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

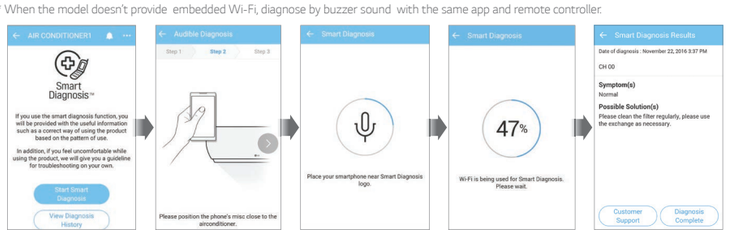
* Builds upon widespread smartphone use and offers greater USP diversification
* Perfect for consumers who are unable to view information about their air conditioner via a display or remote control.

• How it works

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



* When the model doesn’t provide embedded Wi-Fi, diagnose by buzzer sound with the same app and remote controller.

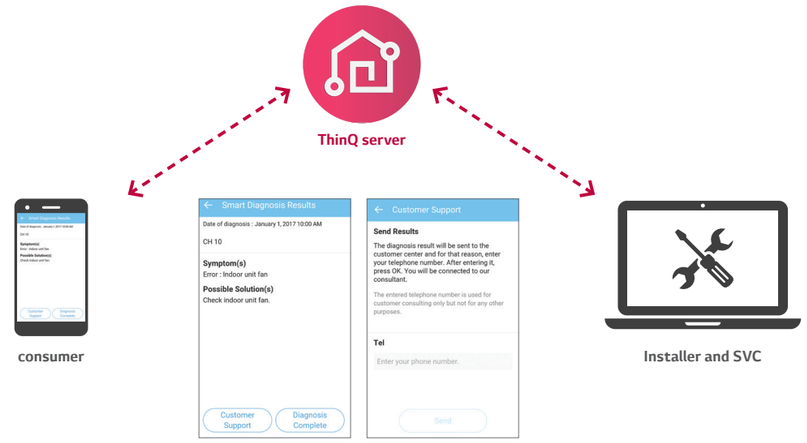


• Benefit

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

For consumer

For Installer and SVC



- 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.
- 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

WALL MOUNTED KEY FEATURES

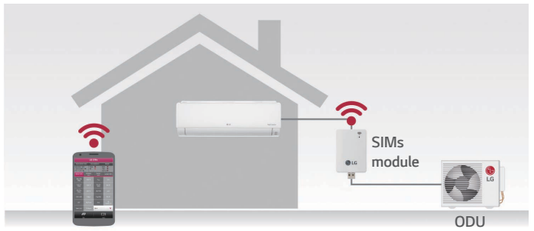
SMART

SIMs

By connecting SIMs chip, you can check the status of your air conditioner and diagnoseproblems 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

• How It Works

LG SIMs

SIMS App

1. Use a SIMs chip to connect a smartphone to an air conditioner.
2. Monitor and diagnose problems in real time using the SIMs app.

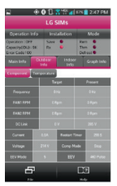
• Benefit

Easy Monitoring

Diagnose problems anytime, anywhere with a SIMs chip.

Easy Diagnosis & Quick Response

Easily monitor IDU/ODU and diagnose problems.
Save and review diagnostic data.



Main

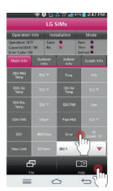
Current outdoor temperature
Indoor temperature
Inverter Comp frequency
Operating opening
Error code / Frequency limits Indoor.
Outdoor fan speed

Outdoor Unit

Frequency / Fan RPM
DC Link / Input Current
Input Voltage
EEV operation mode
Restart timer
Compressor mode / EEV opening

Indoor Unit

Indoor Unit Capacity / Operation Mode
THM mode / REM mode
FAN operating condition / EEV opening
Room Temperature / Suction Temperature
Intermediate Temperature
Exit Temperature



Chart

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

Certificate

US Radio Standard
Canada Radio Standard
Australia Radio Standard
Europe Radio Standard

* Smartphone Requirements (iOS : 6.1 or later, Android : 2.3 or later)

Low Refrigerant Detection

Early notification of low refrigerant protects your air conditioner from a 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

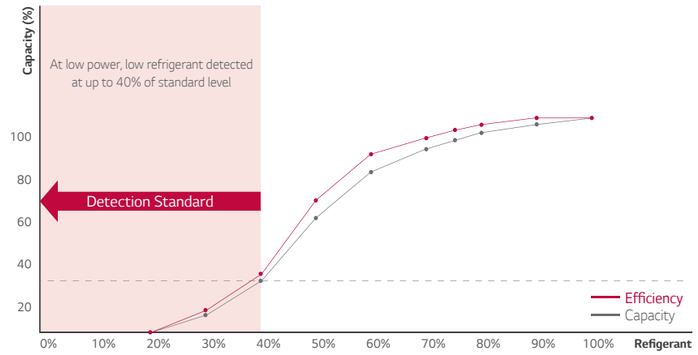
The Air Conditioner is automatically shut down when low refrigerant level is detected.

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.

Capacity and Effectiveness of the Refrigerant Levels



* 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

Notify You of Low Refrigerant Levels

When Low Refrigerant Level is detected, it alternately shows CH and 36 on the display.

Inside Insulator Melting | Oil Fire | Rotor Burnout

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

ENERGY EFFICIENCY

Supreme Energy Efficiency

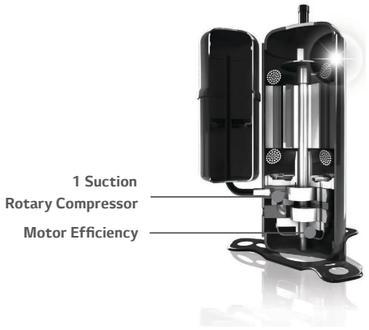
LG's revolutionary Inverter technology boasts powerful yet quiet performance while minimising energy consumption. With world class energy efficiency, bask in the cosiness of the atmosphere surroundings whilst saving energy.

* Based on H09AL Model
* Specifications may vary for each model.

• High Efficient Compressor and Reversing Valve

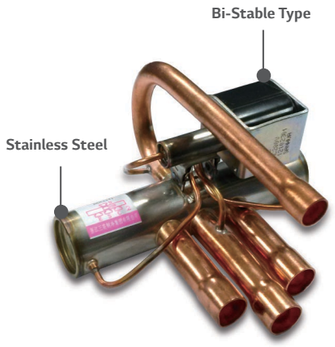
Rotary Compressor and Motor Efficiency

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 best efficiencies.



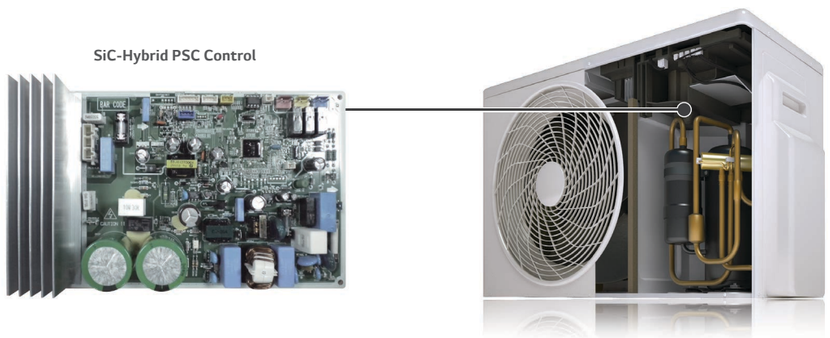
Bi-Stable Reversing Valve

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



• Improved Inverter Drive Efficiency

Used to optimise 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.



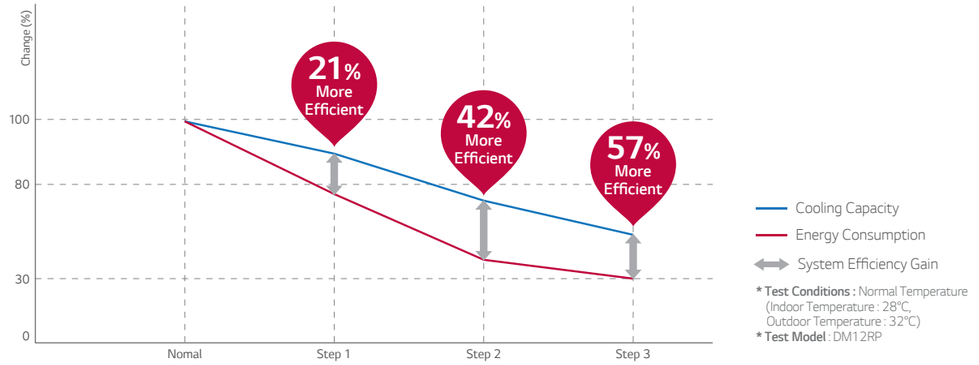
Active Energy Control 4 - Step

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.

• Concept & Benefit

Cooling a home can come at a high cost particularly during the hot summer months.
Avoid those costs and save energy by taking advantage of LG's 4-Step Energy Control System.



*** Test Conditions :** Normal Temperature (Indoor Temperature : 28°C, Outdoor Temperature : 32°C)
*** Test Model** : DM12RP

• How It Works

Normal.
100% energy usage

Many people and high-activity level

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.

WALL MOUNTED KEY FEATURES

ENERGY EFFICIENCY

Energy Display

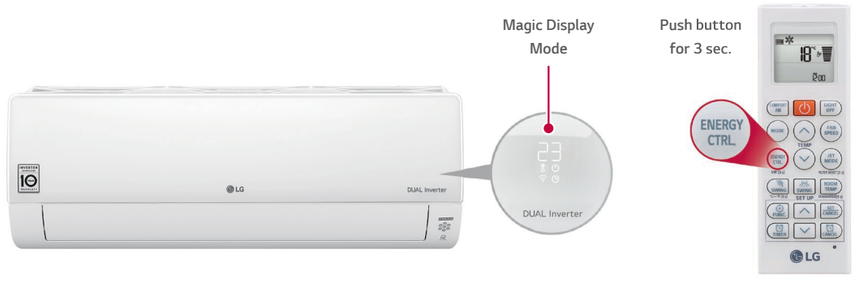
LG's Energy Display panel monitors the amount of energy levels used. Save on energy consumption while enjoying the cooling by checking your energy level on the panel.

* 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

Nomal Mode

Current Setting Temp

Electric Power

Displays Current Energy Use

• Additional Benefit

Fan Speed

Display	Speed
F5	High
F4	Medium-High
F3	Medium
F2	Medium-Low
F1	Low

Sleep Mode

For example, setting 1hr

WALL MOUNTED KEY FEATURES

PERFECT HEALTHCARE

Plasmaster™ Ionizer+PLUS

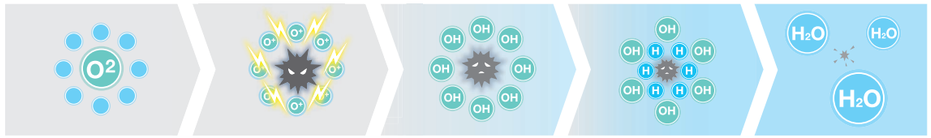
The powerful plasma Ionizer protects you from bad odors and harmful and contagious particles in the air with over 3 million ions to sterilize not only the air passing through the air conditioner, but also surrounding surfaces for a safer, and cleaner environment.

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

• How It Works

Sterilization and Deodorization (Utilizes Over 3 Million Ions)

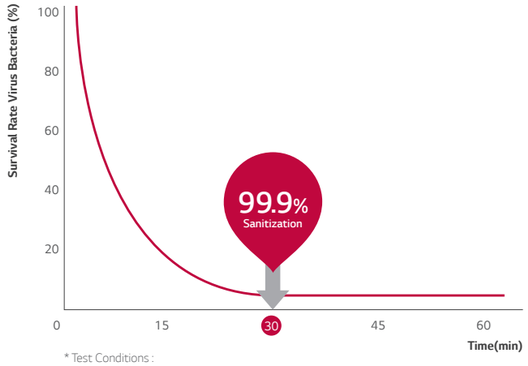
Plasmaster Ionizer+ reduces harmful and contagious microscopic particles by infusing the air passing through the air conditioner with over 3 million ions.



• Test Result

Sterilization Performance Evaluations

Sterilize Bacteria (E.coli colon bacillus) over 99.9% in 30 min.



* Test Conditions :
  Space : 52m³ Chamber
  Temperature & Humidity : Normal
  Bacteria : Staphylococcus Aureus

2.1 odor strength decrease in 60 minutes

An odor of measured as 2 European odor units (ouE/m³) or less indicates that the level of odor falls within permissible limits.

Odor Strength	1	2	3	4
Offensive odor substance sensitivity	Mountain smell	Indoor life smell	Bathroom smell	Food waste smell
Odor strength level	Light	Moderate	Strong	Very Strong

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

WALL MOUNTED KEY FEATURES

PERFECT HEALTHCARE

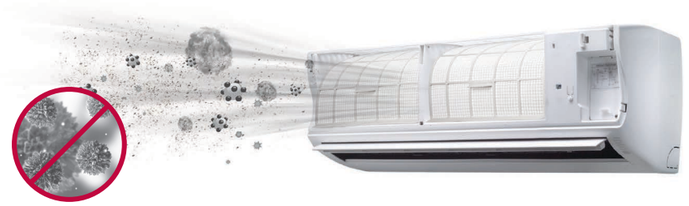
Dual Protection Filter

The Dual Protection Filter collects dust.

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

• What is the Dual Protection Filter?

The Dual Protection Filter, designed to capture dust particles over 10㎛ in size, is the first line of defense and hindrance against finer particles.



• Additional Benefit

Easy to Open
Easily detachable full surface cover helps clean the air conditioner flawlessly.

Easy to Clean
The filter is designed for easy handling and quick cleaning, which lengthens its lifespan.

Auto Cleaning

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

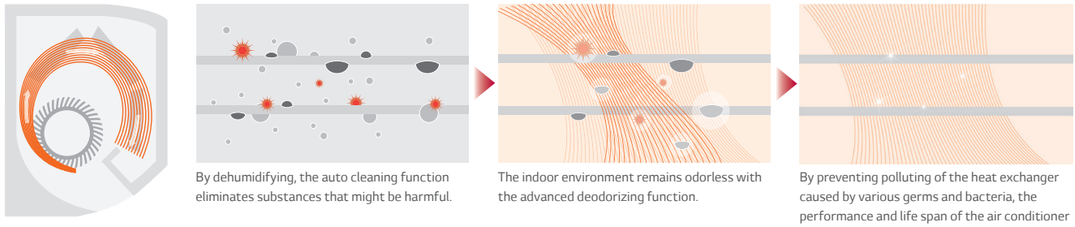
* Specifications may vary for each model.

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



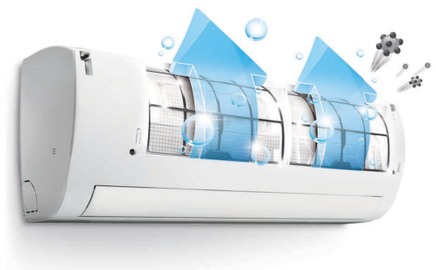
By dehumidifying, the auto cleaning function eliminates substances that might be harmful.

The indoor environment remains odorless with the advanced deodorizing function.

By preventing polluting of the heat exchanger caused by various germs and bacteria, the performance and life span of the air conditioner do not wither away even after a period of 10 years.

• Benefit

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



WALL MOUNTED KEY FEATURES

FAST COOLING & HEATING

Fast Cooling

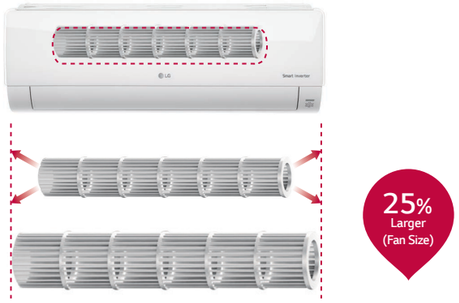
The cool airflow reaches all the corners of the room, keeping the space cool and comfortable.

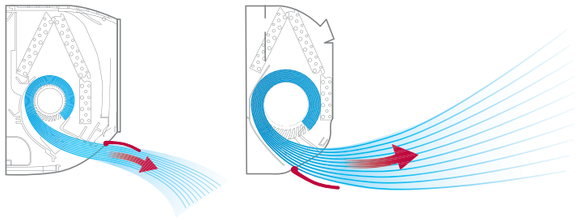
* Specifications may vary for each model.
* Depending on the experimental conditions.

• How It Works

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

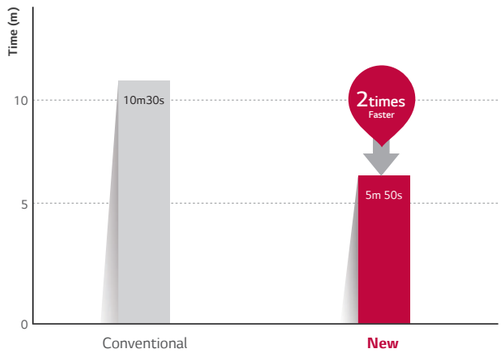
Cooling Outlet
A larger, optimally designed cooling outlet emanates to large areas and cools spaces faster.





• Test Result

Test Result



* Test Conditions :
: Indoor temperature 33°C, Outdoor temperature 35°C,
Relative humidity 60%, Setting temperature 24°C

Changes in Temperature Over 30 Minutes

Conventional	10min	20min	30min
0.1m			

New	10min	20min	30min
0.1m			

* Test Conditions :
Outdoor temperature : 35°C, Indoor temperature : 33°C,
Humidity : 60%, Remote control : 24°C High

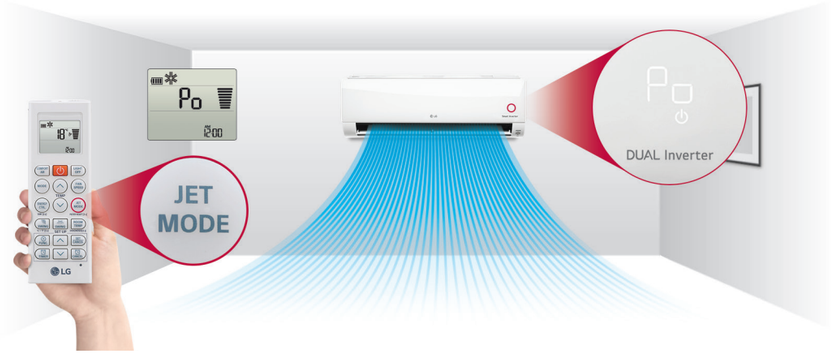
Jet Cool

LG air conditioners provide optimized high-speed airflow, which can cool rooms faster while delivering cool air evenly in every direction.

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

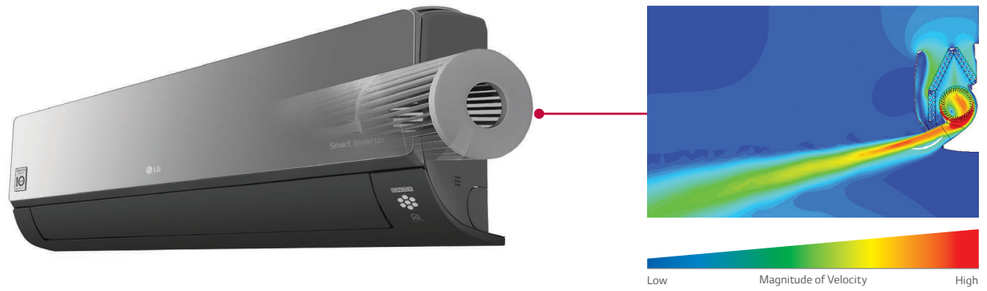
• How It Works

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.



WALL MOUNTED KEY FEATURES

FAST COOLING & HEATING

4-Way Swing

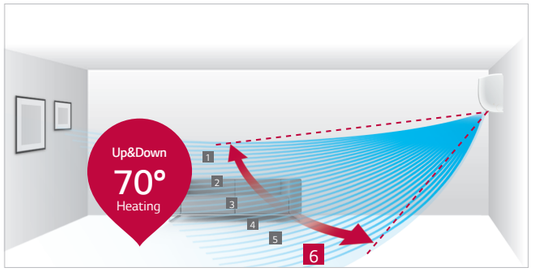
Cool air reaches out to the entire room regardless of where the air conditioner is installed

* Specifications may vary for each model.

• How It Works

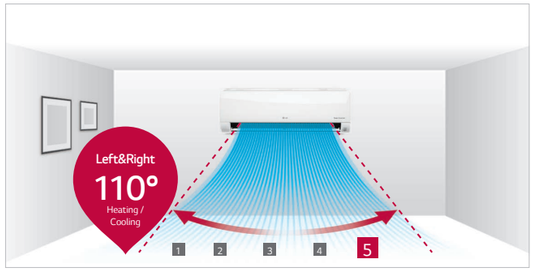
6-Step Vane, Control up to 70°

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



5-Step Louver, Control up to 55°

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

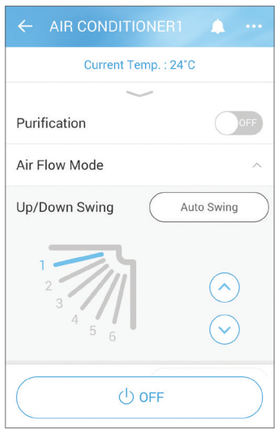


* Angle can be different from each model and working mode.

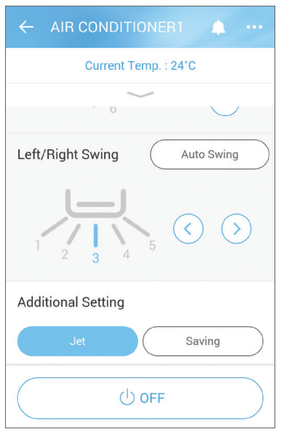
• Easy and Simple Control

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

Up/Down Swing



Left/Right Swing



Fast Heating

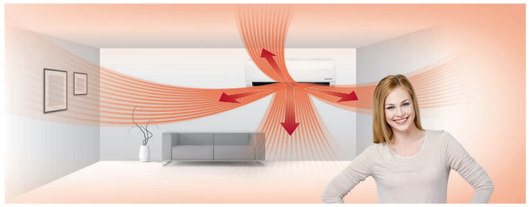
LG Residential Air Conditioners satisfy your heating needs while consuming less energy, by heating a wider space in a shorter period of time to create a warm and comfortable living environment.

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

• How It Works

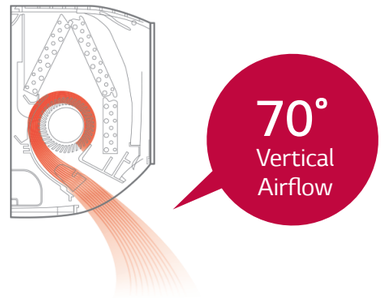
4 way Auto Swing (Easy Airflow Control)

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.



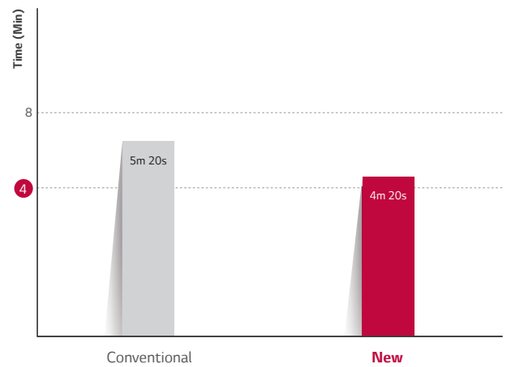
Vertical Airflow

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



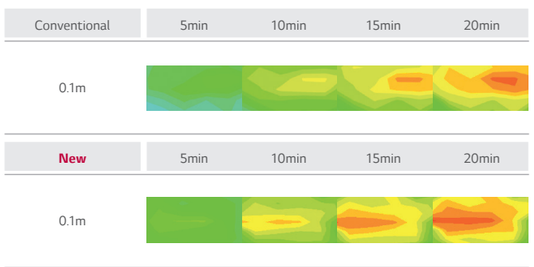
• Benefit & Test Result

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

WALL MOUNTED KEY FEATURES

EXTREME DURABILITY

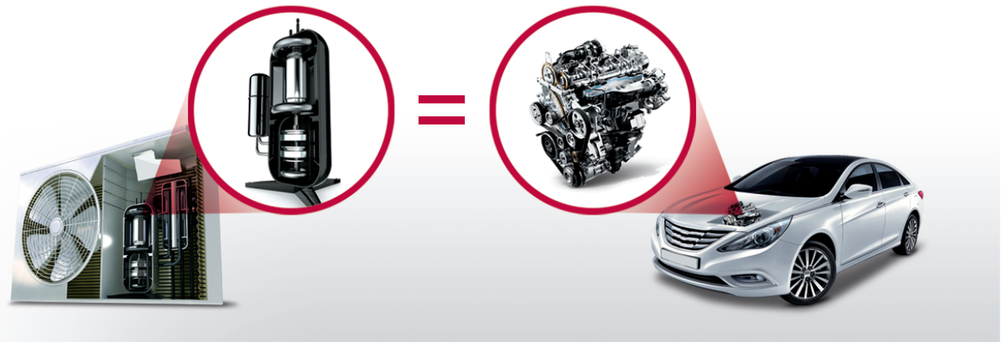
10-Year Inverter Compressor Warranty

LG, with confidence in product quality, preserves is better lives for customers by providing 10 years warranty for Inverter Compressor of Air conditioners.

* Specifications may vary for each model.

• What is the 10 Year Warranty?

The compressors is for the Air Conditioner what the engine is to the vehicle. With the 10 year warranty on the compressor, users can avail of the benefits of LG air conditioner for a longer period on time.



• 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

Single Rotary Type | Twin Rotary Type

Gold Fin™

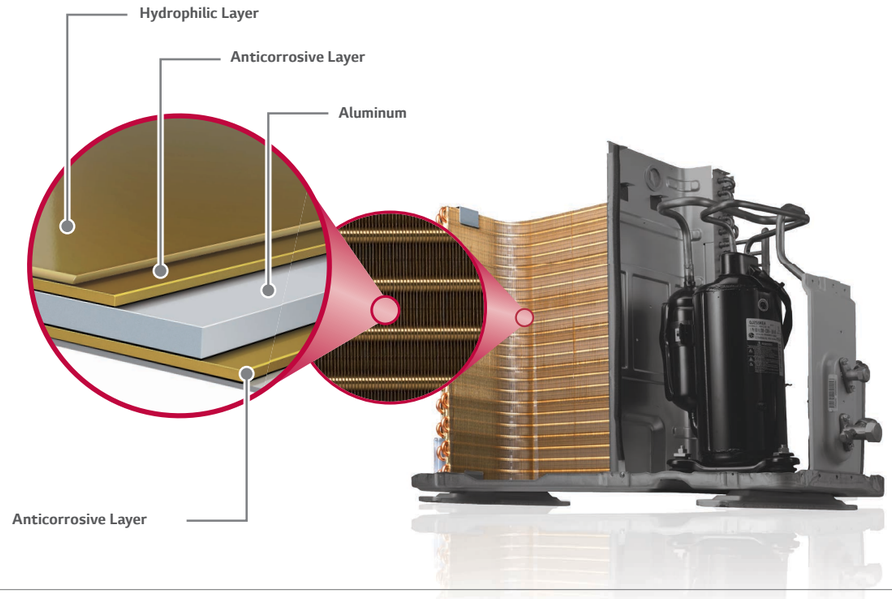
The Gold Fin™ coating protects the surface of the heat exchanger from unnecessary wear and corrosion.

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

• How It Works

Crosscut View of Heat Exchanger

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

WALL MOUNTED KEY FEATURES

COMFORT

Comfort 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

If the air conditioner remains ON while asleep, it can lower body temperature or cause discomfort, especially if the outflow of cool air is directly close to the room's occupants. This can be eliminated by the Comfort Air vane angle thus providing a comfortable environment to the sleeping occupants.

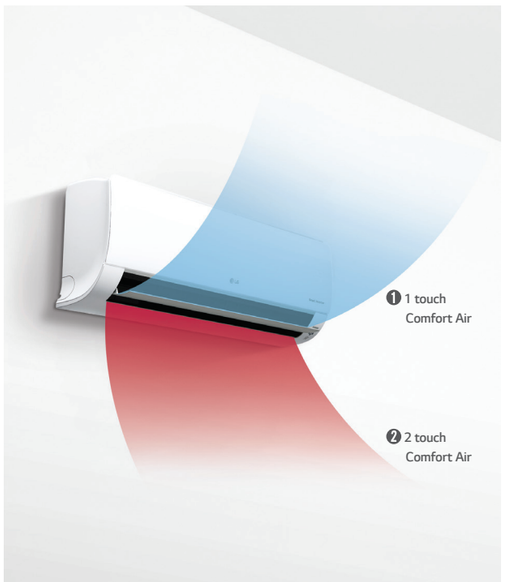
• How It Works

Control Panel

Remote Control

Comfort Vane

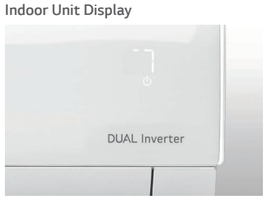
This option conveniently sets an AC's louvers to a preset position so that outflowing air is directed away from a room's occupants.



Scene 1: Inclines to a maximum 80° angle.

Sets vane angle to highest position : Optimized for gentle airflow cooling.

Indoor Unit Display



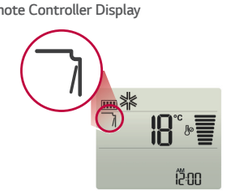
Remote Controller Display

Scene 2: Declines to a maximum 10° angle.

Sets vane angle to lowest position : Optimized for gentle airflow heating.

Indoor Unit Display

Remote Controller Display



Low Noise

LG Air Conditioners operate at 19dB low noise level, moreover provide healthy soft air by just 1 touch.

* Specifications may vary for each model.

• How It Works

LG's Unique Skew Fan

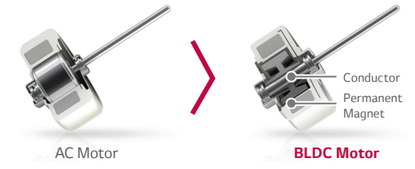
By minimizing the surface pressure of the fan blade when in contact with the air peak noise are reduced to a level that is among the lowest in the world.

Conventional — **Skew Fan**

15% Tilted Stabilizer

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 — **BLDC Motor**

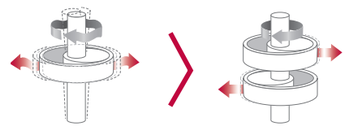
Advanced Motor

- Low Efficiency.
- Heat Problem during overhauling.
- Difficult precise speed control.

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

ALVC (Active Low Vibration Control)

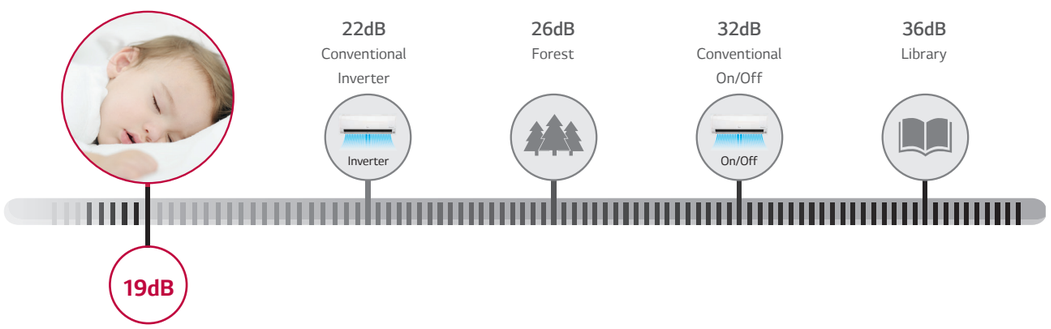
A speed-error component estimates the load to compensate for imbalances, which are the primary causes of vibration and noise, enabling the rotation of the motor without vibration at low Hz levels.



Single Rotary — **Inverter**

40% Cut Torque Variation

• Benefit



COMFORT

Silent Mode

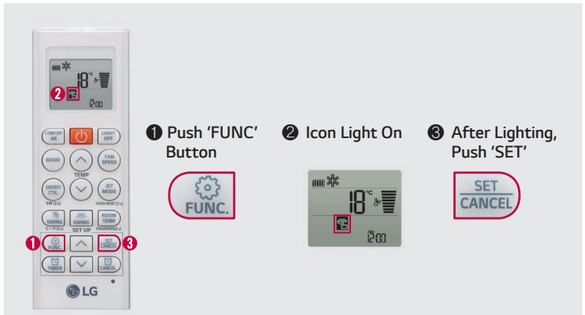
Silent mode ensures a tranquil and serene experience for the user by reducing noise disturbances while you are resting.

* 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.

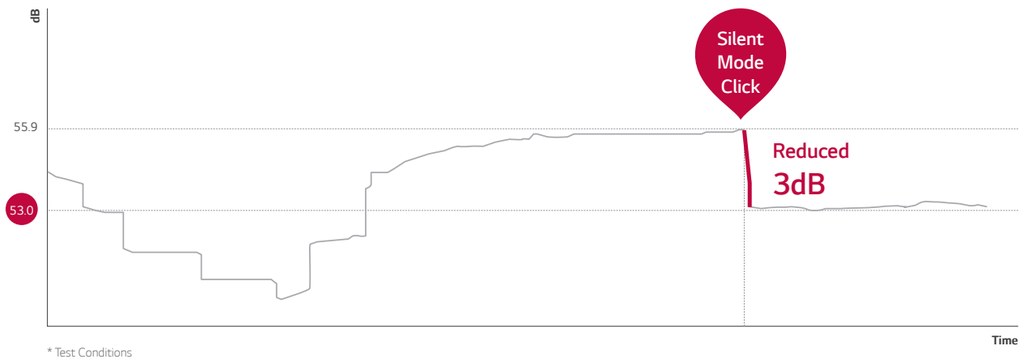
Press the Silent Button



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.

Quick & Easy Installation

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

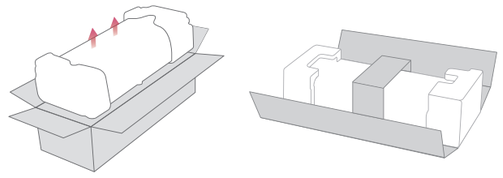
* Specifications may vary for each model.

• Concept

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

• How It Works

One Simple Packing Box



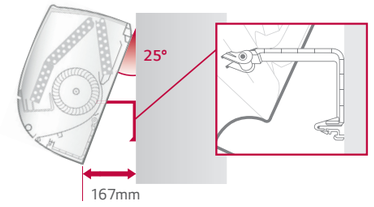
Conventional LG

Installation Plate Improvement

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

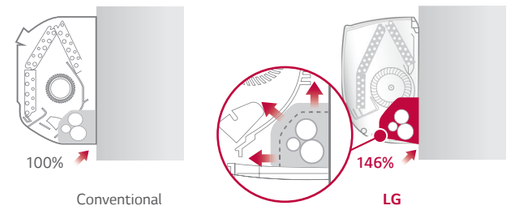
Installation Support Clip

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



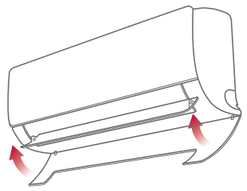
Wider Tubing Space

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



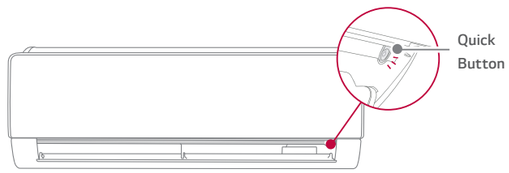
Detachable Bottom Cover

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



Quick button for running test

The test button is conveniently located and easy to find.



WALL MOUNTED SPECIFICATION

ATHENA

R410A

Dual Inverter COMPRESSOR

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

LG participates in the ECP programme for EUROVENT AC program.
Check ongoing validity of certification : www.eurovent-certification.com

Embedded Wi-Fi · Active Energy Control · Plasmaster Ionizer^{PLUS} · Dual Protection Filter · Plasmaster Auto Cleaning

Jet Cool · 4 Way Swing · Fast Heating · Gold Fin™ · Low Noise 17dB · Silence Mode 3dB · Quick & Easy Installation

• Single Combination

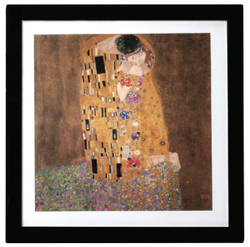
UNIT				9K	12K
INDOOR				H09AP.NSM	H12AP.NSM
Capacity	Cooling	Min/Rated/Max	W	300 / 2500 / 4000	300 / 3500 / 4250
	Heating	Min/Rated/Max	W	300 / 3200 / 6900	300 / 4000 / 7320
	Heating -7°C	Rated	W	4300	4700
Power Input	Cooling	Rated	W	490	833
	Heating +7°C	Rated	W	593	785
EER			W/W	5.10	4.20
S.E.E.R.				9.4	9.1
P design C			kW	2.5	3.5
COP			W/W	5.4	5.1
S.C.O.P.				5.2	5.1
P design H			kW	3.2	3.8
Energy Label	Cooling (A+++ to D Scale)			A+++	A+++
	Heating (A+++ to D Scale)			A+++	A+++
Annual Energy Consumption	Cooling		kWh	94	135
	Heating		kWh	862	1045
Sound Pressure	Cooling	S / L / M / H	dBA	19 / 29 / 37 / 42	19 / 29 / 37 / 42
	Heating	L / M / H	dBA	29 / 37 / 42	29 / 37 / 42
Sound Power	Cooling	High	dBA	60	60
Air Flow Rate	Cooling	S / L / M / H	m³/min	6.6/8.7/11.1/12.4	6.6/8.7/11.1/12.4
		Max (Power)	m³/min	15.5	15.5
	Heating	L / M / H	m³/min	8.7/11.1/14/3	8.7/11.1/14/3
Dehumidification Rate			l/h	1.5	1.7
Running Current	Cooling	Rated/Max	A	2.5/6.0	3.9/6.0
	Heating	Rated/Max	A	2.9/3.7	7.4/7.4
Starting Current	Cooling	Rated	A	2.5	3.9
	Heating	Rated	A	2.9	3.7
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	875 x 295 x 235	875 x 295 x 235
Net Weight			kg	11.0	11.0
Fan Motor Output			W	30	30
OUTDOOR				H09AP.U24	H12AP.U24
Operation Range	Cooling	Min / Max	°CDB	-10 / 48	-10 / 48
	Heating	Min / Max	°CDB	-25 / 24	-25 / 24
Sound Pressure	Cooling	High	dBA	48	48
	Heating	High	dBA	50	50
Sound Power	Cooling	High	dBA	65	65
Air Flow Rate		High	m³/min	49	49
Piping	Length(Odu/Idu)	Min / Max	m	3 / 20	3 / 20
	Elevation(Odu/Idu)	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	OD(Outside)	mm(inch)	21.5 (0.85)	21.5 (0.85)
Refrigerant	Type			R410A	R410A
	Charge at 7.5m		g	1,150	1,150
			t-CO_2 eq	2.40	2.40
	Additional charge		g/m	20	20
	GWP			2087.5	2087.5
Fan Motor Output	Additional charge		g/m	85	85
Compressor Type	GWP			Twin Rotary	Twin Rotary
Net Weight			kg	43	43
Dimension			mm	870 x 650 x 330	870 x 650 x 330

* This product contains Fluorinated greenhouse gases (R410A).
** S : Sleep / L : Low / M : Medium / H : High
*** Specification, design and feature are subject to change without prior notice.

WALL MOUNTED SPECIFICATION

ARTCOOL GALLERY

R32



Dual Inverter COMPRESSOR

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• Single Combination

UNIT				9K	12K
INDOOR				A09FR.NSF	A12FR.NSF
Capacity	Cooling	Min/Rated/Max	W	1300 / 2500 / 3500	1300 / 3500 / 4000
	Capacity	Heating +7°C	W	1300 / 3000 / 4000	1300 / 3500 / 4500
	Capacity	Heating -7°C	W	3000	3200
Power Input	Cooling	Rated	W	700	1090
	Power Input	Heating +7°C	W	930	1090
EER			W/W	3.57	3.21
S.E.E.R.				5.3	5.3
P design C			kW	2.5	3.5
COP			W/W	3.22	3.21
S.C.O.P.				3.8	3.8
P design H			kW	2.5	2.5
Energy Label	Cooling			A	A
	Energy Label		Heating	A	A
Annual Energy Consumption	Cooling		kWh	165	231
	Heating		kWh	921	921
Sound Pressure	Cooling	S / L / M / H	dBA	26 / 28 / 40 / 45	26 / 28 / 40 / 45
	Heating	L / M / H	dBA	28 / 40 / 46	28 / 40 / 46
Sound Power	Cooling	H	dBA	60	60
Air Flow Rate	Cooling	Sleep	m³/min	3.8 / 4.4 / 5.9 / 7.7	3.8 / 4.4 / 5.9 / 7.7
		Max (Power)	m³/min	9.5	9.5
	Heating	L / M / H	m³/min	4.4 / 5.9 / 7.7	4.4 / 5.9 / 7.7
Dehumidification Rate			l/h	1.2	1.4
Running Current	Cooling	Rated	A	3.5	4.5
		Current	Cooling	6.0	6.0
	Current	Heating	Rated	4.0	5.0
		Current	Heating	7.0	7.0
Starting Current	Cooling /Heating	Rated	A	3.5 / 4.0	4.5 / 5.0
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	600 x 600 x 146	600 x 600 x 146
Net Weight			kg	15.0	15.0
Fan Motor Output			W	16.7	16.7
OUTDOOR				A09FR.UL2	A12FR.UL2
Operation Range	Cooling	Min /Max	°CDB	-10 / 48	-10 / 48
	Heating	Min /Max	°CDB	-10 / 24	-10 / 24
Sound Pressure	Cooling	High	dBA	49	49
	Heating	High	dBA	51	51
Sound Power	Cooling	High	dBA	65	65
Air Flow Rate		High	m³/min	35	35
Piping	Length(Odu/Idu)	Min / Max	m	3 / 15	3 / 15
	Elevation(Odu/Idu)	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	OD(Outside)	mm(inch)	21.5 (0.85)	21.5 (0.85)
Refrigerant	Type			R32	R32
	Charge at 7.5m		g	800	800
			t-CO_2 eq	0.540	0.540
	Additional charge		g/m	20	20
	GWP			675	675
Fan Motor Output			W	43	43
Compressor Type				Twin Rotary	Twin Rotary
Net Weight			kg	34.1	34.1
Dimension			mm	770 x 545 x 288	770 x 545 x 288

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

ARTCOOL MIRROR

R32

Dual Inverter COMPRESSOR

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UNIT				9K	12K	18K	24K
INDOOR				AC09BQ.NSJ	AC12BQ.NSJ	AC18BQ.NSK	AC24BQ.NSK
Capacity	Cooling	Min/Rated/Max	W	890 / 2500 / 3700	890 / 3500 / 4040	900 / 5000 / 5500	900 / 6600 / 7420
	Heating +7°C	Min/Rated/Max	W	890 / 3300 / 4100	890 / 4000 / 5100	900 / 5800 / 6400	900 / 7500 / 8640
	Heating -7°C	Rated	W	2600	3000	4200	4850
Power Input	Cooling	Rated	W	656	1080	1562	2164
	Heating +7°C	Rated	W	800	1050	1611	2238
EER			W/W	3.81	3.24	3.20	3.05
S.E.E.R.				7.0	6.6	7.0	6.9
P design C			kW	2.5	3.5	5.0	6.6
COP			W/W	4.13	3.81	3.60	3.35
S.C.O.P.				4.0	4.0	4.3	4.2
P design H			kW	2.5	2.5	3.9	5.0
Energy Label	Cooling (A++ to E Scale)			A++	A++	A++	A++
	Heating (A++ to E Scale)			A+	A+	A+	A+
Annual Energy Consumption	Cooling		kWh	125	186	250	335
	Heating		kWh	875	875	1270	1628
Sound Pressure	Cooling	S / L / M / H	dBA	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44	31 / 34 / 42 / 47
	Heating	L / M / H	dBA	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling	H	dBA	59	59	60	65
Air Flow Rate	Cooling	S / L / M / H	m^3/min	3.0 / 4.2 / 7.5 / 10.0	3.0 / 4.2 / 7.5 / 10.0	8.0 / 10.5 / 130 / 14.5	8.0 / 10.5 / 13.1 / 16.1
		Max (Power)	m^3/min	12.5	12.5	15.5	20.0
	Heating	L / M / H	m^3/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	10.5 / 13.1 / 16.1
Dehumidification Rate			l/h	1.1	1.3	1.8	2.5
Running Current	Cooling	Rated	A	3.3	4.7	6.9	9.8
		Max	A	6.0	6.0	9.0	14.0
	Heating	Rated	A	4.0	4.7	7.1	10.4
		Max	A	7.0	7.0	9.5	14.0
Starting Current	Cooling / Heating	Rated	A	3.3 / 4.0	4.7 / 4.7	6.9 / 7.1	9.8 / 10.4
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 mm^2	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power & Transmission Cable			N x mm^2	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	837 x 308 x 192	837 x 308 x 192	998 x 345 x 212	998 x 345 x 212
Net Weight			kg	9.9	9.9	12.8	13.6
Fan Motor Output			W	30	30	30	60
OUTDOOR				AC09BQ.UA3	AC12BQ.UA3	AC18BQ.UL2	AC24BQ.U24
Operation Range	Cooling	Min/Max	°CDB	-10 / 48	-10 / 48	-15 / 48	-15 / 48
	Heating	Min/Max	°CDB	-10 / 24	-10 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling	High	dBA	48	48	53	53
	Heating	High	dBA	50	50	55	54
Sound Power	Cooling	High	dBA	65	65	65	70
Air Flow Rate	Cooling	High	m^3/min	27	27	35	50
Piping	Length(Odu/Idu)	Min/Max	m	3 / 15	3 / 15	3 / 20	3 / 30
	Elevation(Odu/Idu)	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	OD(Outside)	mm(inch)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)
Refrigerant	Type			R32	R32	R32	R32
	Charge at 7.5m		g	700	700	1000	1100
			t-CO_2 eq	0.47	0.47	0.68	0.74
	Additional charge		g/m	20	20	20	20
	GWP			675	675	675	675
Fan Motor Output			W	43	43	43	85
Compressor Type				Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Net Weight			kg	25.1	25.1	34.4	46.0
Dimension			mm	717 x 483 x 230	717 x 483 x 230	770 x 545 x 288	870 x 650 x 330

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

ARTCOOL SILVER

R32

NEW

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• Single Combination

UNIT				9K	12K	18K
INDOOR				AC09SQ.NSJ	AC12SQ.NSJ	AC18SQ.NSK
Capacity	Cooling	Min/Rated/Max	W	890 / 2500 / 3700	890 / 3500 / 4040	900 / 5000 / 5500
	Heating +7°C	Min/Rated/Max	W	890 / 3300 / 4100	890 / 4000 / 5100	900 / 5800 / 6400
	Heating -7°C	Rated	W	2600	3000	4200
Power Input	Cooling	Rated	W	656	1080	1562
	Heating +7°C	Rated	W	800	1050	1611
EER			W/W	3.81	3.24	3.20
S.E.E.R.				7.0	6.6	7.0
P design C			kW	2.5	3.5	5.0
COP			W/W	4.13	3.81	3.60
S.C.O.P.				4.0	4.0	4.3
P design H			kW	2.5	2.5	3.9
Energy Label	Cooling (A++ to E Scale)			A++	A++	A++
	Heating (A++ to E Scale)			A+	A+	A+
Annual Energy Consumption	Cooling		kWh	125	186	250
	Heating		kWh	875	875	1270
Sound Pressure	Cooling	S / L / M / H	dBA	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44
	Heating	L / M / H	dBA	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44
Sound Power	Cooling	H	dBA	59	59	60
Air Flow Rate	Cooling	S / L / M / H	m^3/min	3.0 / 4.2 / 7.5 / 10.0	3.0 / 4.2 / 7.5 / 10.0	8.0 / 10.5 / 13.0 / 14.5
		Max (Power)	m^3/min	12.5	12.5	15.5
	Heating	L / M / H	m^3/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	Rated	A	3.3	4.7	6.9
		Max	A	6.0	6.0	9.0
	Heating	Rated	A	4.0	4.7	7.1
		Max	A	7.0	7.0	9.5
Starting Current	Cooling / Heating	Rated	A	3.3 / 4.0	4.7 / 4.7	6.9 / 7.1
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 mm^2	3 x 1.0	3 x 1.0	3 x 1.5
Power & Transmission Cable			N x mm^2	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension			mm	837 x 308 x 192	837 x 308 x 192	998 x 345 x 212
Net Weight			kg	8.7	8.7	11.9
Fan Motor Output			W	30	30	30
OUTDOOR				AC09BQ.UA3	AC12BQ.UA3	AC18BQ.UL2
Operation Range	Cooling	Min/Max	°CDB	-10 / 48	-10 / 48	-15 / 48
	Heating	Min/Max	°CDB	-10 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling	High	dBA	48	48	53
	Heating	High	dBA	50	50	55
Sound Power	Cooling	High	dBA	65	65	65
Air Flow Rate	Cooling	High	m^3/min	27	27	35
Piping	Length(Odu/Idu)	Min/Max	m	3 / 15	3 / 15	3 / 20
	Elevation(Odu/Idu)	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	OD(Outside)	mm(inch)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)
Refrigerant	Type			R32	R32	R32
	Charge at 7.5m		g	700	700	1000
			t-CO_2 eq	0.47	0.47	0.68
	Additional charge		g/m	20	20	20
	GWP			675	675	675
Fan Motor Output			W	43	43	43
Compressor Type				Twin Rotary	Twin Rotary	Twin Rotary
Net Weight			kg	25.1	25.1	34.4
Dimension			mm	717 x 483 x 230	717 x 483 x 230	770 x 545 x 288

* This product contains Fluorinated greenhouse gases (R32).
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WALL MOUNTED SPECIFICATION

DELUXE

R32

Dual Inverter COMPRESSOR

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• Single Combination

UNIT				9K	12K	18K	24K
INDOOR				DC09RQ.NSJ	DC12RQ.NSJ	DC18RQ.NSK	DC24RQ.NSK
Capacity	Cooling	Min/Rated/Max	W	890 / 2500 / 3700	890 / 3500 / 4040	900 / 5000 / 5500	900 / 6600 / 7420
	Heating +7°C	Min/Rated/Max	W	890 / 3200 / 5000	890 / 4000 / 6000	900 / 5800 / 6400	900 / 7500 / 8640
	Heating -7°C	Rated	W	3200	3500	4200	4850
Power Input	Cooling	Rated	W	572	933	1562	2164
	Heating +7°C	Rated	W	711	976	1611	2238
EER			W/W	4.37	3.75	3.20	3.05
S.E.E.R.				7.9	7.6	7.0	6.9
P design C			kW	2.5	3.5	5.0	6.6
COP			W/W	4.5	4.1	3.60	3.35
S.C.O.P.				4.6	4.6	4.3	4.2
P design H			kW	2.8	2.9	3.9	5.0
Energy Label	Cooling (A++ to E Scale)			A++	A++	A++	A++
	Heating (A++ to E Scale)			A++	A++	A+	A+
Annual Energy Consumption	Cooling		kWh	111	161	250	335
	Heating		kWh	852	883	1270	1628
Sound Pressure	Cooling	S / L / M / H	dBA	19 / 27 / 37 / 42	19 / 27 / 37 / 42	31 / 34 / 39 / 44	31 / 34 / 42 / 47
	Heating	L / M / H	dBA	27 / 37 / 42	27 / 37 / 42	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling	H	dBA	60	60	60	65
Air Flow Rate	Cooling	S / L / M / H	m^3/min	3.5 / 5.5 / 9.0 / 11.0	3.5 / 5.5 / 9.0 / 11.0	8.0 / 10.5 / 13.0 / 14.5	8.0 / 10.5 / 13.1 / 16.1
		Max (Power)	m^3/min	13.0	13.0	15.5	20.0
	Heating	L / M / H	m^3/min	6.5 / 9.0 / 11.0	6.5 / 9.0 / 11.0	11.0 / 13.5 / 16.0	10.5 / 13.1 / 16.1
Dehumidification Rate			l/h	1.1	1.3	1.8	2.5
Running Current	Cooling	Rated	A	2.5	4.0	6.9	9.8
		Max	A	6.0	6.0	9.0	14.0
	Heating	Rated	A	3.2	4.3	7.1	10.4
		Max	A	7.0	7.0	9.5	14.0
Starting Current	Cooling / Heating	Rated	A	2.5 / 3.2	4.0 / 4.3	6.9 / 7.1	9.8 / 10.4
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 mm^2	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power & Transmission Cable			N x mm^2	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	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	11.9
Fan Motor Output			W	30	30	30	60
OUTDOOR				DC09RQ.UL2	DC12RQ.UL2	DC18RQ.UL2	DC24RQ.U24
Operation Range	Cooling	Min/Max	°CDB	-15 / 48	-15 / 48	-15 / 48	-15 / 48
	Heating	Min/Max	°CDB	-15 / 24	-15 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling	High	dBA	49	49	53	53
	Heating	High	dBA	51	51	55	54
Sound Power	Cooling	High	dBA	65	65	65	70
Air Flow Rate	Cooling	High	m^3/min	35	35	35	50
Piping	Length (Odu/Idu)	Min/Max	m	3 / 20	3 / 20	3 / 20	3 / 30
	Elevation (Odu/Idu)	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	OD(Outside)	mm(inch)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)
Refrigerant	Type			R32	R32	R32	R32
	Charge at 7.5m		g	800	800	1000	1100
			t-CO_2 eq	0.54	0.54	0.68	0.74
	Additional charge		g/m	20	20	20	20
	GWP			675	675	675	675
Fan Motor Output			W	43	43	43	85
Compressor Type				Twin Rotary	Twin Rotary	Twin Rotary	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

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

SIRIUS

R32

Dual Inverter COMPRESSOR

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

LG participates in the ECP programme for EUROVENT AC program.
Check ongoing validity of certification : www.eurovent-certification.com

Embedded Wi-Fi · Smart Diagnosis · Active Energy Control · Energy Display · Auto Cleaning

Jet Cool · 4 Way Swing · Fast Heating · Gold Fin™ · Comfort Air · Low Noise 19dB (9k, 12k) · Silence Mode · Quick & Easy Installation

• Single Combination

UNIT				9K	12K	18K	24K
INDOOR				PC09SQ.NSJ	PC12SQ.NSJ	PC18SQ.NSK	PC24SQ.NSK
Capacity	Cooling	Min / Rated / Max	W	890 / 2500 / 3700	890 / 3500 / 4040	900 / 5000 / 5500	900 / 6600 / 7420
	Heating +7°C	Min / Rated / Max	W	890 / 3300 / 4100	890 / 4000 / 5100	900 / 5800 / 6400	900 / 7500 / 8640
	Heating -7°C	Rated	W	2600	3000	4200	4850
Power Input	Cooling	Rated	W	656	1080	1562	2164
	Heating +7°C	Rated	W	800	1050	1611	2238
EER			W/W	3.81	3.24	3.20	3.05
S.E.E.R.				7.0	6.6	7.0	6.9
P design C			kW	2.5	3.5	5.0	6.6
COP			W/W	4.13	3.81	3.60	3.35
S.C.O.P.				4.0	4.0	4.3	4.2
P design H			kW	2.5	2.5	3.9	5.0
Energy Label	Cooling (A++ to E Scale)			A++	A++	A++	A++
	Heating (A++ to E Scale)			A+	A+	A+	A+
Annual Energy Consumption	Cooling		kWh	125	186	250	335
	Heating		kWh	875	875	1270	1628
Sound Pressure	Cooling	S / L / M / H	dBA	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44	31 / 34 / 42 / 47
	Heating	L / M / H	dBA	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling	High	dBA	59	59	60	65
Air Flow Rate	Cooling	S / L / M / H	m^3/min	3.0 / 4.2 / 7.5 / 10.0	3.0 / 4.2 / 7.5 / 10.0	8.0 / 10.5 / 13.0 / 14.5	8.0 / 10.5 / 13.1 / 16.1
		Max (Power)	m^3/min	12.5	12.5	15.5	20.0
	Heating	L / M / H	m^3/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	10.5 / 13.1 / 16.1
Dehumidification Rate			l/h	1.1	1.3	1.8	2.5
Running Current	Cooling	Rated	A	3.3	4.7	6.9	9.8
		Max	A	6.0	6.0	9.0	14.0
	Heating	Rated	A	4.0	4.7	7.1	10.4
		Max	A	7.0	7.0	9.5	14.0
Starting Current	Cooling / Heating	Rated	A	3.3 4.0	4.7 4.7	6.9 7.1	9.8 / 10.4
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 mm^2	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power & Transmission Cable			N x mm^2	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	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	11.9
Fan Motor Output			W	30	30	30	60
OUTDOOR				PC09SQ.UA3	PC12SQ.UA3	PC18SQ.UL2	PC24SQ.U24
Operation Range	Cooling	Min / Max	°CDB	-10 / 48	-10 / 48	-15 / 48	-15 / 48
	Heating	Min / Max	°CDB	-10 / 24	-10 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling	High	dBA	48	48	53	53
	Heating	High	dBA	50	50	55	54
Sound Power	Cooling	High	dBA	65	65	65	70
Air Flow Rate	Cooling	High	m^3/min	27	27	35	50
Piping	Length (Odu/Idu)	Min / Max	m	3 15	3 15	3 20	3 / 30
	Elevation (Odu/Idu)	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	OD(Outside)	mm(inch)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)
Refrigerant	Type			R32	R32	R32	R32
	Charge at 7.5m		g	700	700	1000	1100
			t-CO_2 eq	0.47	0.47	0.68	0.74
	Additional charge		g/m	20	20	20	20
	GWP			675	675	675	675
Fan Motor Output			W	43	43	43	85
Compressor Type				Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Net Weight			kg	25.1	25.1	34.4	46.0
Dimension			mm	717 x 483 x 230	717 x 483 x 230	770 x 545 x 288	870 x 650 x 330

* This product contains Fluorinated greenhouse gases (R32).
** S : Sleep / L : Low / M : Medium / H : High
*** Specification, design and feature are subject to change without prior notice.

WALL MOUNTED SPECIFICATION

STANDARD

R32

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• Single Combination

UNIT				9K	12K	18K	24K
INDOOR				S09EQ.NSJ	S12EQ.NSJ	S18EQ.NSK	S24EQ.NSK
Capacity	Cooling	Min/Rated/Max	W	890 / 2500 / 3700	890 / 3500 / 4040	900/5000/5500	900 / 6600 / 7420
	Heating +7°C	Min/Rated/Max	W	890 / 3300 / 4100	890 / 4000 / 5100	900/5800/6400	900 / 7500 / 8640
	Heating -7°C	Rated	W	2600	3000	4200	4850
Power Input	Cooling	Rated	W	656	1080	1562	2164
	Heating +7°C	Rated	W	800	1050	1611	2238
EER			W/W	3.81	3.24	3.20	3.05
S.E.E.R.				7.0	6.6	7.0	6.9
P design C			kW	2.5	3.5	5.0	6.6
COP			W/W	4.13	3.81	3.60	3.35
S.C.O.P.				4.0	4.0	4.3	4.2
P design H			kW	2.5	2.5	3.9	5.0
Energy Label	Cooling (A++ to E Scale)			A++	A++	A++	A++
	Heating (A++ to E Scale)			A+	A+	A+	A+
Annual Energy Consumption	Cooling		kWh	125	186	250	335
	Heating		kWh	875	875	1270	1628
Sound Pressure	Cooling	S / L / M / H	dBA	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44	31 / 34 / 42 / 47
	Heating	L / M / H	dBA	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling	High	dBA	59	59	60	65
Air Flow Rate	Cooling	S / L / M / H	m^3/min	3.0 / 4.2 / 7.5 / 10.0	3.0 / 4.2 / 7.5 / 10.0	8.0 / 10.5 / 13.0 / 14.5	8.0 / 10.5 / 13.1 / 16.1
		Max (Power)	m^3/min	12.5	12.5	15.5	20.0
	Heating	L / M / H	m^3/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	10.5 / 13.1 / 16.1
Dehumidification Rate			l/h	1.1	1.3	1.8	2.5
Running Current	Cooling	Rated	A	3.3	4.7	6.9	9.8
		Max	A	6.0	6.0	9.0	14.0
	Heating	Rated	A	4.0	4.7	7.1	10.4
		Max	A	7.0	7.0	9.5	14.0
Starting Current	Cooling/Heating	Rated	A	3.3 / 4.0	4.7 / 4.7	6.9 7.1	9.8 / 10.4
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 mm^2	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power & Transmission Cable			N x mm^2	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	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	11.9
Fan Motor Output			W	30	30	30	60
OUTDOOR				S09EQ.UA3	S12EQ.UA3	S18EQ.UL2	S24EQ.U24
Operation Range	Cooling	Min/Max	°CDB	-10 / 48	-10 / 48	-15 / 48	-15 / 48
	Heating	Min/Max	°CDB	-10 / 24	-10 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling	High	dBA	48	48	53	53
	Heating	High	dBA	50	50	55	54
Sound Power	Cooling	High	dBA	65	65	65	70
Air Flow Rate	Cooling	High	m^3/min	27	27	35	50
Piping	Length(Odu/Idu)	Min/Max	m	3 / 15	3 / 15	3 / 20	3 / 30
	Elevation(Odu/Idu)	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	OD(Outside)	mm(inch)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)
Refrigerant	Type			R32	R32	R32	R32
	Charge at 7.5m		g	700	700	1000	1100
			t-CO_2 eq	0.47	0.47	0.68	0.74
	Additional charge		g/m	20	20	20	20
	GWP			675	675	675	675
Fan Motor Output			W	43	43	43	85
Compressor Type				Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Net Weight			kg	25.1	25.1	34.4	46.0
Dimension			mm	717 x 483 x 230	717 x 483 x 230	770 x 545 x 288	870 x 650 x 330

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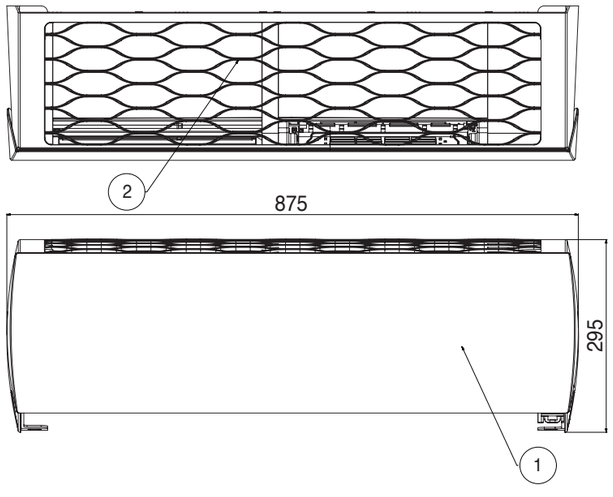
** S : Sleep / L : Low / M : Medium / H : High
*** Specification, design and feature are subject to change without prior notice.

WALL MOUNTED DIMENSIONS

INDOOR UNIT

H09AP.NSM / H12AP.NSM

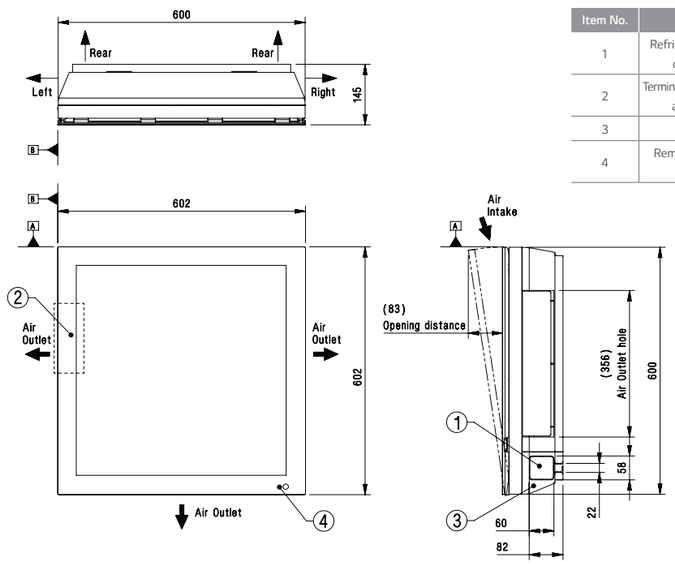
(Unit: mm)



Item No.	Part Name	Remark
1	Front Panel	
2	Air Suction Grille	
3	Knockout Hole	For pipe and cable

A09FR.NSF/A12FR.NSF

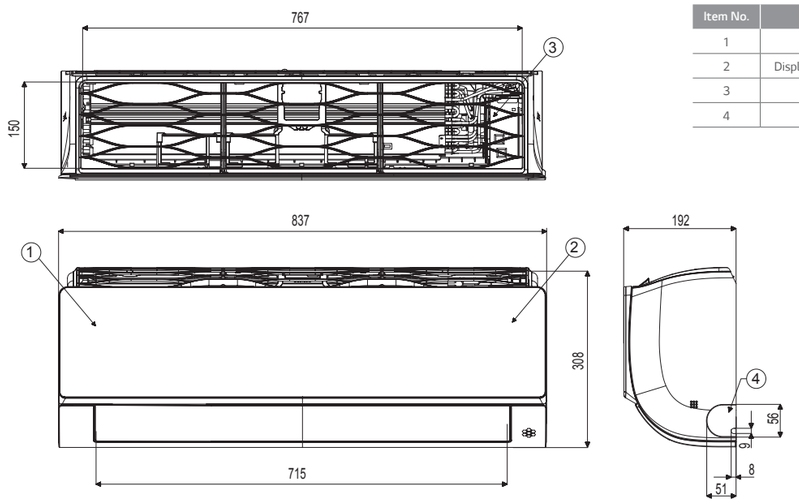
(Unit : mm)



Item No.	Part Name	Description
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 wireles type

AC09BQ.NSJ / AC12BQ.NSJ / AC09SQ.NSJ / AC12SQ.NSJ

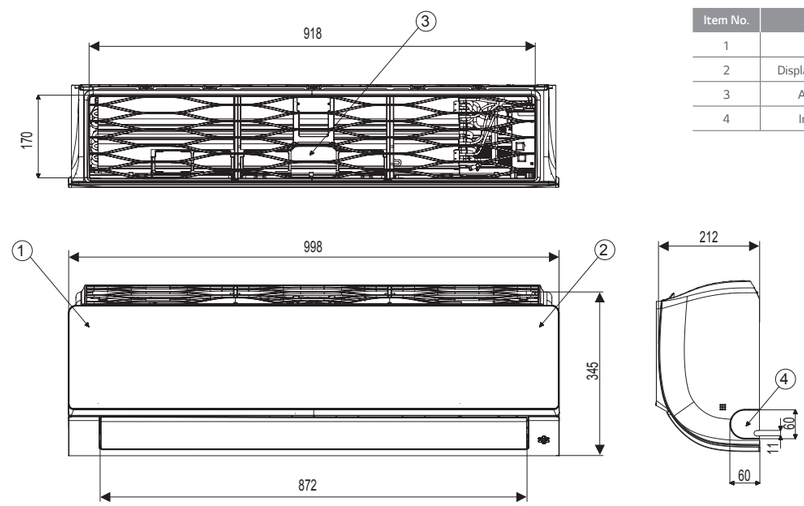
(Unit : mm)



Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	
3	Air Filter	
4	Knockout hole	For pipe and cable

AC18BQ.NSK / AC24BQ.NSK / AC18SQ.NSK

(Unit : mm)



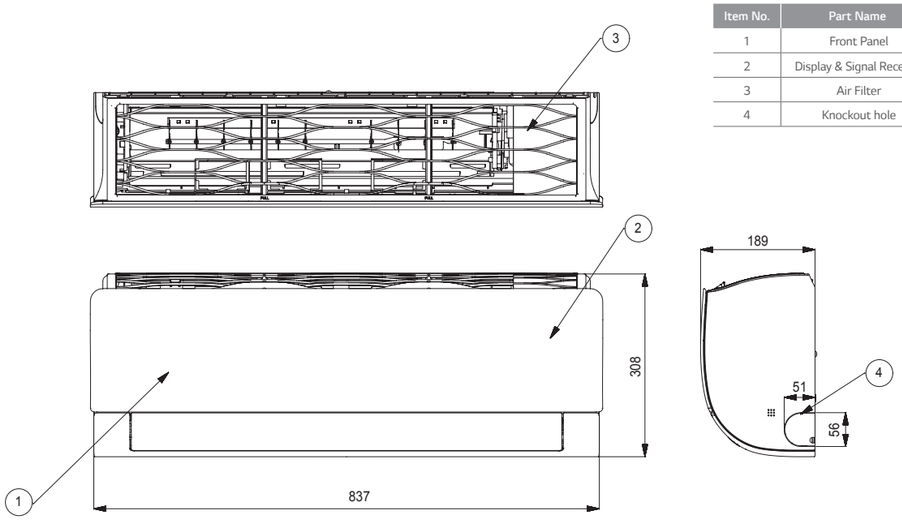
Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	
3	Air Suction Filter	
4	Installation Plate	

WALL MOUNTED DIMENSIONS

INDOOR UNIT

DC09RQ.NSJ / PC12SQ.NSJ / PC09SQ.NSJ / PC12SQ.NSJ / S09EQ.NSJ / S12EQ.NSJ

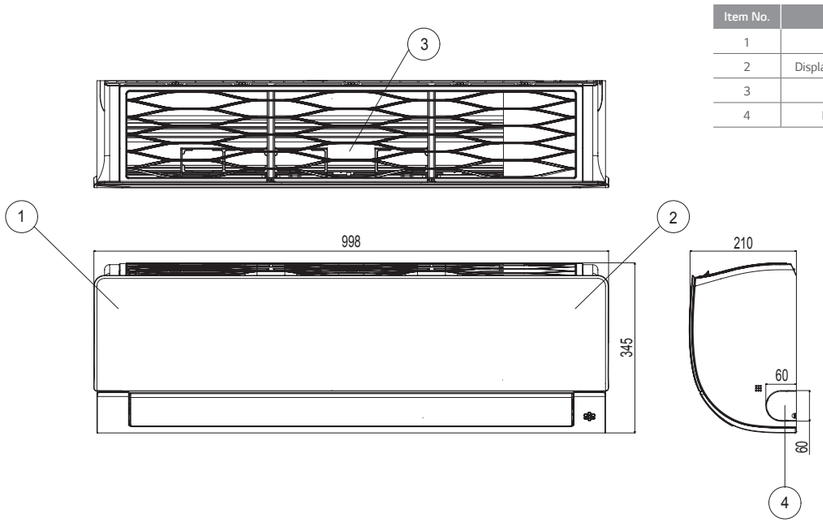
(Unit : mm)



Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	Hidden
3	Air Filter	
4	Knockout hole	For pipe and cable

DC18RQ.NSK / DC24RQ.NSK / PC18SQ.NSK / PC24SQ .NSK / S18EQ.NSK / S24EQ.NSK

(Unit : mm)

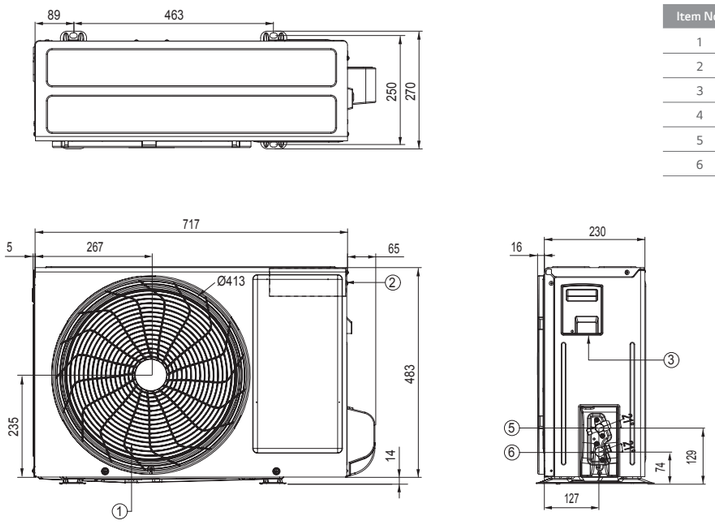


Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	Hidden
3	Air Filter	
4	Knockout hole	For pipe and cable

OUTDOOR UNIT

AC09BQ.UA3 / AC12BQ.UA3 / AC09SQ.UA3 / AC12SQ.UA3 / DC09RQ.UA3 DC12RQ.UA3 / PC09SQ.UA3 / PC12SQ.UA3 / S09EQ.UA3 / S12EQ.UA3

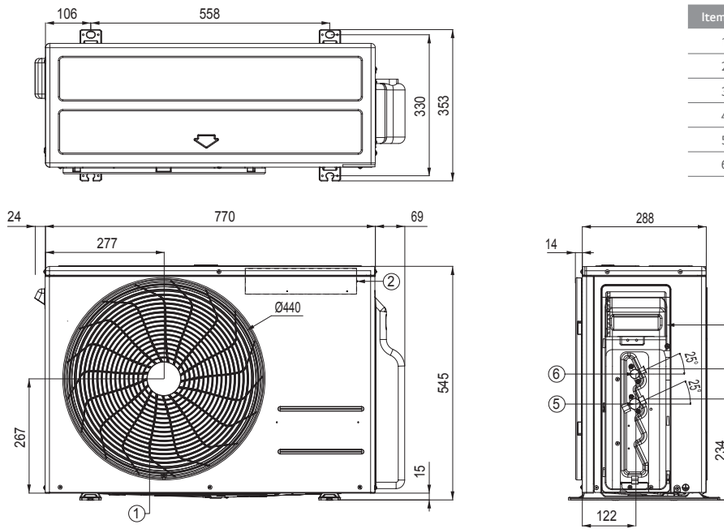
(Unit: mm)



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

AC18BQ.UL2 / AC18SQ.UL2 / DC18RQ.UL2 / PC18SQ.UL2 / S18EQ.UL2

(Unit: mm)

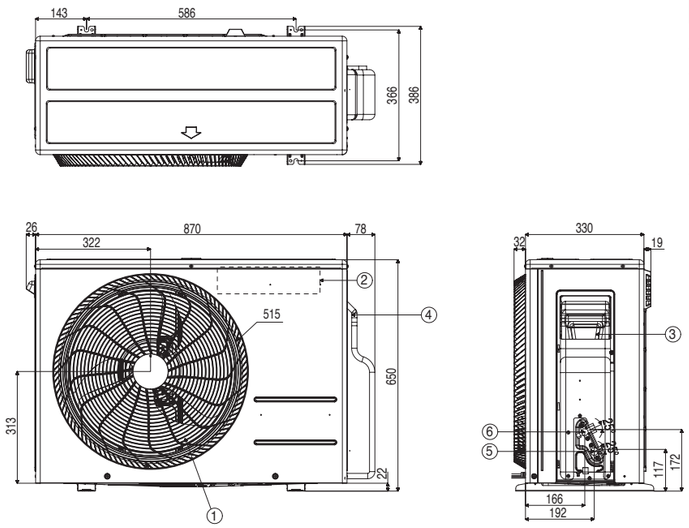


Item No.	Part Name
1	Air Outlet
2	Control Box
3	Power and Communication Cable Hole
4	Service Valve Cover
5	Gas Pipe Connection
6	Liquid Pipe Connection

* This product contains Fluorinated greenhouse gases (R410A).

H09AP.U24 / H12AP.U24 / AC24BQ.UL2 / DC24RQ.UL2 / PC24SQ.UL2 / S24EQ.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

ACCESSORIES

		PRESTIGE	ARTCOOL GALLERY	ARTCOOL	DELUXE	STANDARD PLUS	STANDARD
Wired Remote Controller	5k					Y	
	7k			Y	Y	Y	-
	9k	Y	-	Y	Y	Y	-
	12k	Y	-	Y	Y	Y	-
	15k					Y	
	18k			Y	Y	Y	-
	24k			Y	Y	Y	-
PI 485	5k					-	
	7k			-	Y*	-	-
	9k	-	-	-	Y*	-	-
	12k	-	-	-	Y*	-	-
	15k					-	
	18k			-	Y*	-	-
	24k			-	Y*	-	-
Dry Contact	5k					Y	
	7k			Y	Y	Y	-
	9k	Y	Y	Y	Y	Y	-
	12k	Y	Y	Y	Y	Y	-
	15k					Y	
	18k			Y	Y	Y	-
	24k			Y	Y	Y	-

* Y: Available
* When connected to Multi 14k & 16k Outdoor units, this may not be supported.

Standard Wired Remote Controller

• Standard III

PREMTB100

PREMTBB10

• Standard II

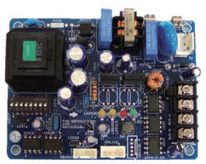
PREMTB001

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×H×D, mm)	120 x 120 x 16	120 x 121 x 16
Backlight	•	•

※ 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

PDRYCB300

PDRYCB500

* Refer to each product PDB for applicable models

MODEL	PDRYCB000	PDRYCB400	PDRYCB300	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

Athena
Artcool
New Deluxe
Sirius
Standard

BUTTON	DISPLAY SCREEN	DESCRIPTION
⏻	-	To turn On / Off the air conditioner.
TEMP	88	To adjust the desired room temperature in cooling, heating or auto changeover mode.
COMFORT AIR		To adjust the air flow to deflect wind.
LIGHT OFF	-	To set the brightness of the display on the indoor unit.
MODE	❄	To select the cooling mode.
	☀	To select the heating mode.
	💧	To select the dehumidification mode.
	🌀	To select the fan mode.
	A	To select the auto changeover / auto operation mode.
FAN SPEED		To adjust the fan speed.
ENERGY CTRL.		To bring the effect of the power saving.
JET MODE	Po	To change room temperature quickly.
SWING SWING		To adjust the air flow direction vertically or horizontally.
ROOM TEMP		To display the room temperature.
℃ ↔ ℉[5sec]		To change unit between °C and °F.
SET/ CANCEL	-	To set / cancel the functions and timer.
▽ △	-	To adjust time.
TIMER	-	To turn on / off air conditioner automatically.
CANCEL	-	To cancel the timer settings.

MULTI SPLIT

LINE-UP

R32 INDOOR / OUTDOOR UNIT

○ Single Only ○● Compatible ● Multi Only

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 Unit	ARTCOOL Gallery	NEW			○● A09FR.NSF	○● A12AR.NSF			
	ARTCOOL Mirror			● AM07BP.NSJ	○● AC09BQ.NSJ	○● AC12BQ.NSJ		○● AC18BQ.NSK	○● AM24BP.NSK
	ARTCOOL Silver	NEW			○● AC09SQ.NSJ	○● AC12SQ.NSJ		○● AC18SQ.NSK	
	Deluxe			● DM07RP.NSJ	○● DC09RQ.NSJ	○● DC12RQ.NSJ		○● DC18RQ.NSK	○● DM24RP.NSK
	Sirius		● PM05SP.NSJ	● PM07SP.NSJ	○● PC09SQ.NSJ	○● PC12SQ.NSJ	● PM15SP.NSJ	○● PC18SQ.NSK	○● PM24SP.NSK
			● MJ05PC.NSJ	● MJ07PC.NSJ	● MJ09PC.NSJ	● MJ12PC.NSJ	● MJ15PC.NSJ	● MJ18PC.NSK	● MJ24PC.NSK
Ceiling Mounted Cassette	1 Way Cassette				● MT09R.NU1	● MT11R.NU1			
	4 Way Cassette		● MT06R.NR0	● MT08R.NR0	○● CT09R.NR0	○● CT12R.NR0		○● CT18R.NQ0	○● CT24R.NP0
Ceiling Concealed Duct	Mid / High Static Pressure							○● CM18R.N10	○● CM24R.N10
	Low Static Pressure				○● CL09R.N20	○● CL12R.N20		○● CL18R.N20	○● CL24R.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	MU2R15.UL0 2-port	MU2R17.UL0 2-port	MU3R19.UE0 3-port	MU3R21.UE0 3-port	MU4R25.U40 4-port	MU4R27.U40 4-port	MU5R30.U40 5-port

* ARTCOOL Gallery will be available from May, '19

R410A INDOOR / OUTDOOR UNIT

KBTU/H		5	7	9	12	15	18	24
KW		1.5	2.1	2.6	3.5	4.2	5.3	7.0
Ceiling & Floor Convertible				○● CV09.NE2	○● CV12.NE2			
Console				○● CQ09.NA0	○● CQ12.NA0		○● CQ18.NA0	

KBTU/H		40	48	57
KW		11.7	14.1	16.7
Multi	Multi Piping	MU5M40.U44 5-port		
	Distribution Box	FM40AH.U34/FM41AH.U34 7-IDU	FM48AH.U34/FM49AH.U34 8-IDU	FM56AH.U34/FM57AH.U34 9-IDU

FEATURE OVERVIEW

Category		R32 MULTI PIPING							R410A DB BOX TYPE			
kBtu/h		14	16	18	21	24	27	30	40	46	48	57
kW		4.1	4.7	5.3	6.2	7.0	7.9	8.8	11.7	13.5	14.1	16.7
Energy Efficiency	BLDC Comp. & Fan Motor	●	●	●	●	●	●	●	●	●	●	●
	Eurovent Certification	●	●	●	●	●	●	●	●			
	Wide Louver Plus Fin	●	●	●	●	●	●	●	●	●	●	●
	Optimised Heat Exchanger Path	●	●	●	●	●	●	●	●	●	●	●
	Smart Load Control			●	●	●	●	●	●			
	Peak Current Control	●	●	●	●	●	●	●	●	●	●	●
	Standby Mode	●	●	●	●	●	●	●				
	Mode Lock	●	●	●	●	●	●	●	●	●	●	●
Durability	Twin Rotary Compressor	●	●	●	●	●	●	●	●	●	●	●
	Smart Sensor Pressure Control			●	●	●	●	●	●	●	●	●
	Ocean Black Fin Heat Exchanger	●	●	●	●	●	●	●				
Comfort & Convenience	Fast Cooling & Heating			●	●	●	●	●	●	●	●	●
	Night Silent Operation	●	●	●	●	●	●	●	●	●	●	●
	Wiring Error Check	●	●	●	●	●	●	●	●	●	●	●
	Monitoring PCB	●	●	●	●							
	LG MV	●	●	●	●	●	●	●	●	●	●	●
	Forced Cooling Operation	●	●	●	●	●	●	●	●	●	●	●

KEY FEATURES

PERFECT SOLUTION
FOR MULTIPLE ROOMS

Energy Efficiency | Extreme Durability | Comfort and Convenience

LG Multi split system provides powerful, efficient cooling and heating with two, three, four, or up to nine indoor units operating of a single outdoor unit.
LG's advanced inverter technology brings powerful performance while consuming less energy and it uses less space than installing individual single split systems.
A variety of sleek and elegant indoor units to complement any décor are available in a full range of capacities for all room sizes.
Installation is easy and it offers various convenient functions for easy maintenance.

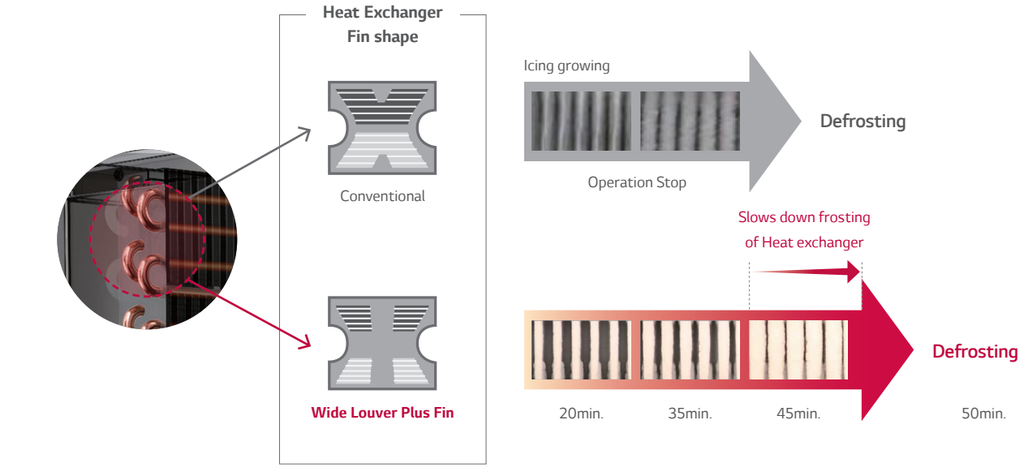
ENERGY EFFICIENCY

Enhanced Heat exchange by Wide Louver Plus Fin

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

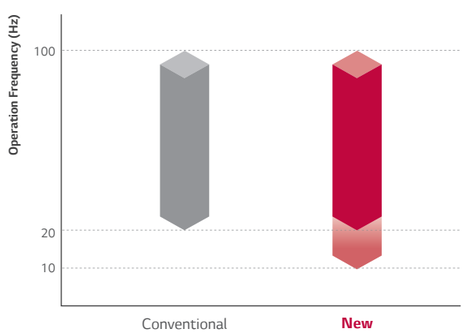
It can slow down frosting of heat exchanger and postpone the start of defrosting operation



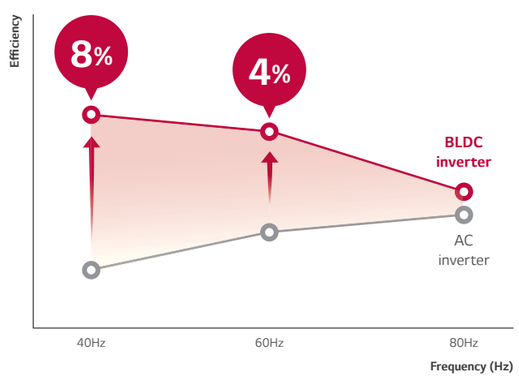
Powerful BLDC (Brushless Direct Current Motor) Compressor

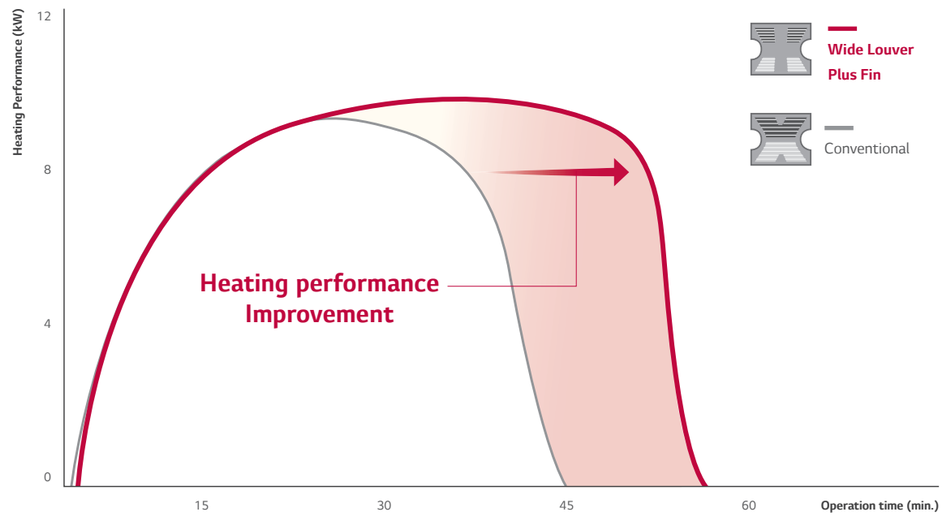
LG air conditioners are equipped with a BLDC Inverter Twin Rotary Compressor that uses a neodymium magnetic core. The compressor has high efficiency and superior reliability, because it is excellent in controlling the operating speed depending on the load. The compressor has improved efficiency compared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

• Operation Range



• Motor Efficiency



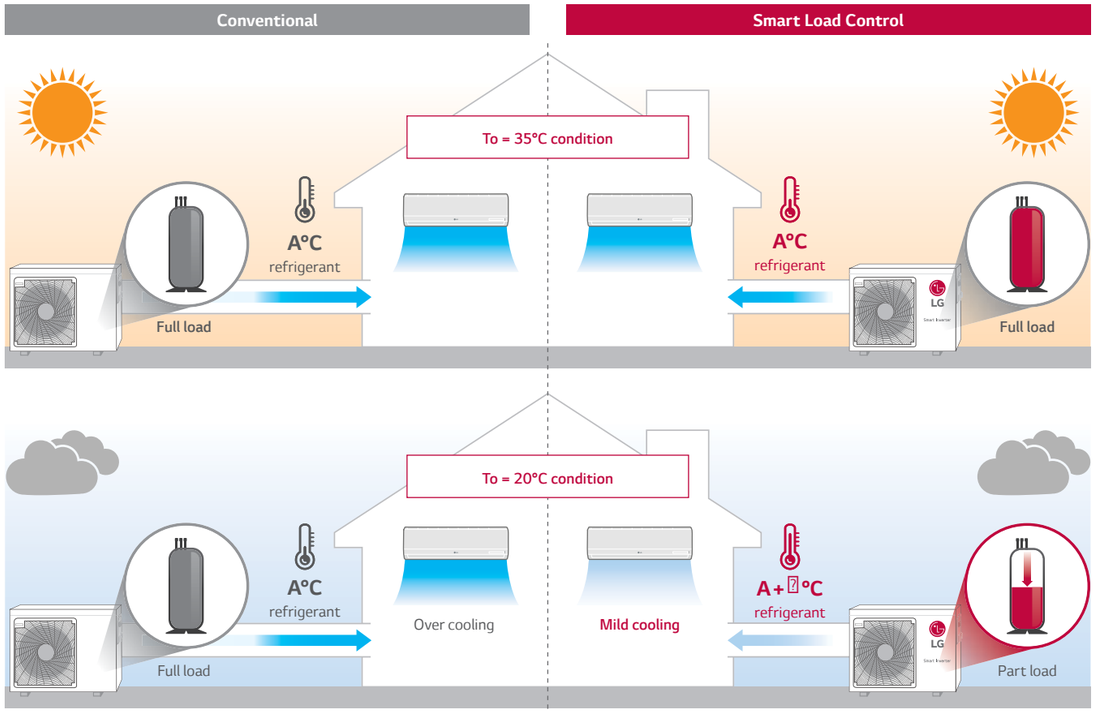


* LG Internal test data

ENERGY EFFICIENCY

Smart Load Control

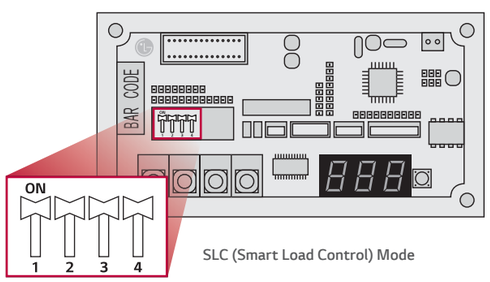
To save operation energy, it automatically controls the refrigerant temperature according to outside temperature.



* To : Outdoor temperature
* A is the indoor unit coil temperature

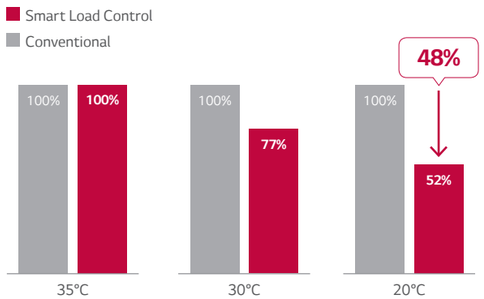
• How to set dip switch

To operate smart load control, dip switch setting is needed. It can save energy on real time operation.



SLC (Smart Load Control) Mode

• Real Time Energy Saving



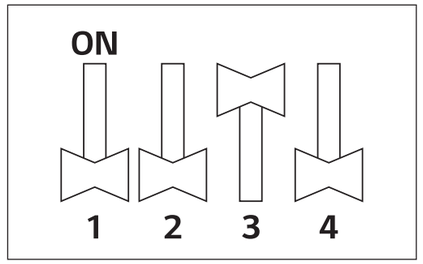
* Applied models : MU2R15.UL0 / MU2R17.UL0 / MU3R19.UE0 / MU3R21.UE0 / MU4R25.U40 / MU4R27.U40 / MU5R30.U40 / MU5M40.U44

Peak Current Control

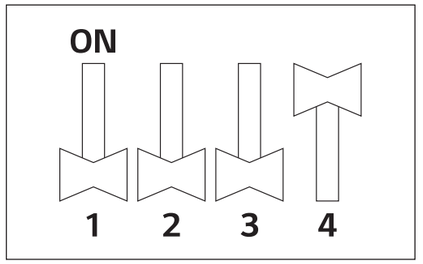
The peak current control function keeps the air conditioner from running at the maximum level while maintaining current system setting, in order to reduce energy consumption. This function allows reducing energy costs during the peak periods of energy use when the energy fee is much higher.

• How to set dip switch

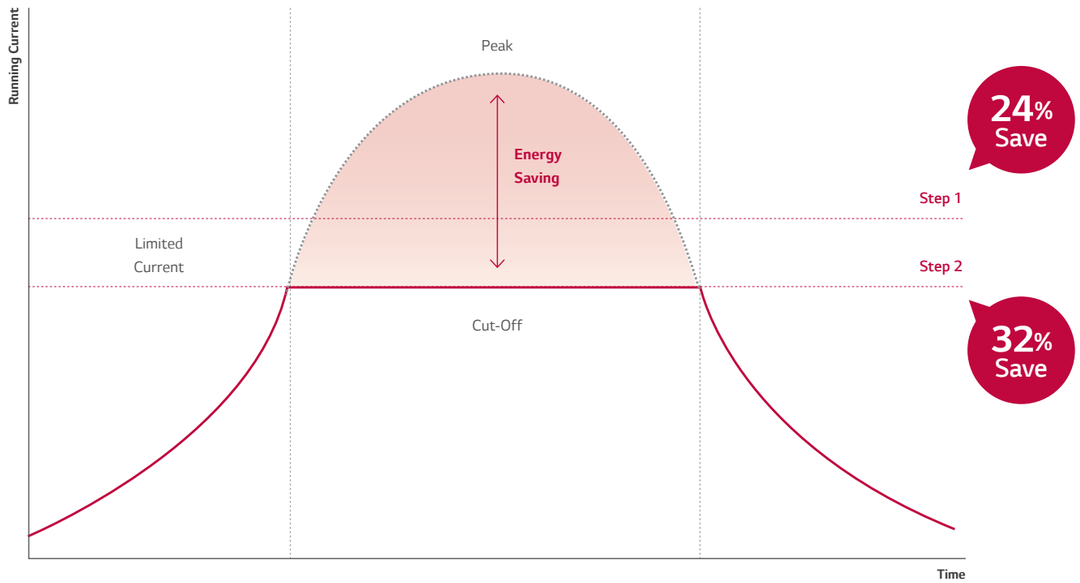
STEP 1 Max power consumption : 1.9 kW



STEP 2 Max power consumption : 1.7 kW

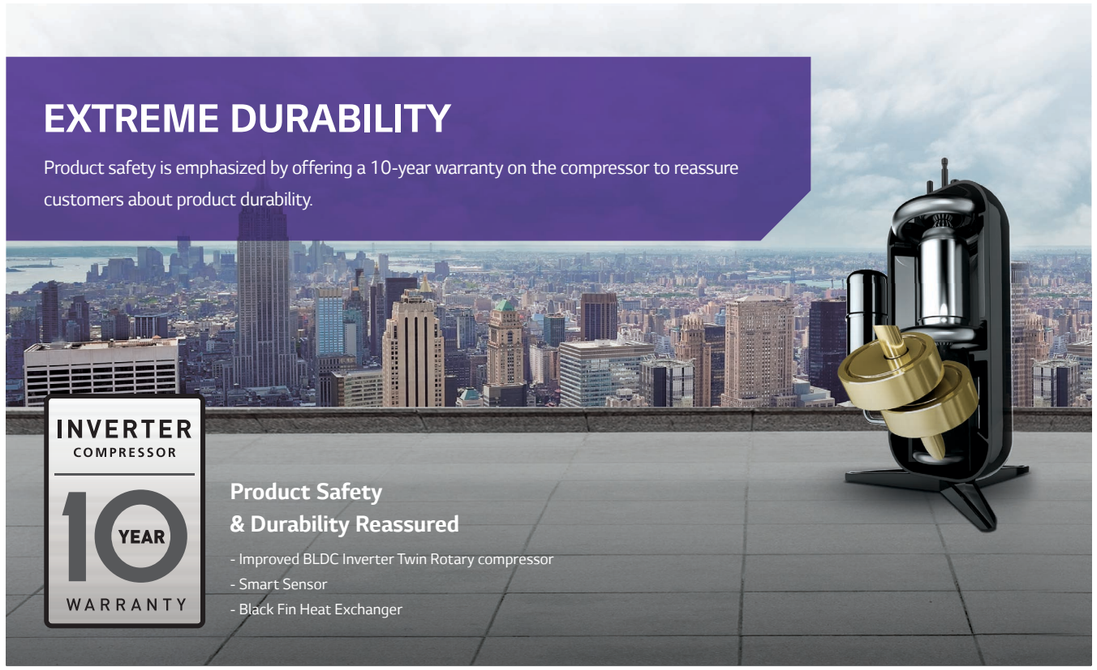


* Full Load consumption : 2.5kW
* 7.0kW model
* LG Internal test result



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

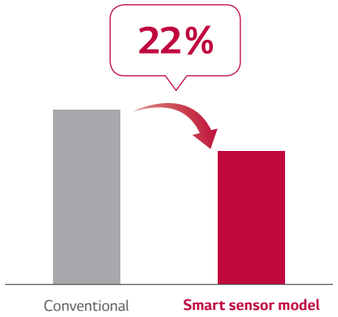
EXTREME DURABILITY



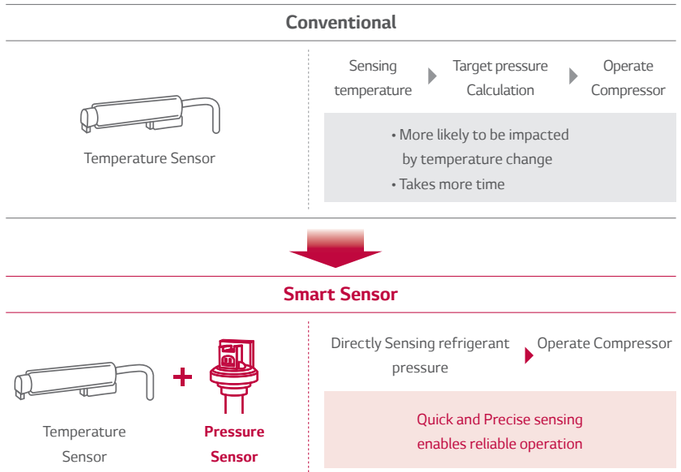
Pressure Control Technology by Smart Sensor

Quicker and more reliable operation is possible from pressure control technology.

• Field Failure Rate of Outdoor unit



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

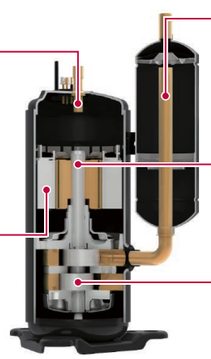


Improved BLDC Inverter Twin Rotary Compressor

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

Flow Optimization
Reduced oil inflow by increasing the length of oil discharge pipe, leading to a sufficient oil quantity inside compressor hence preventing compressor abrasion.

Concentrated Winding Motor
Oil path area is improved by over 50% by increasing the extra stator cavity.
Due to this, caloric value of motor is reduced, improving the cooling function of stator coil.



Twin Rotary Inverter Compressor

Suction Optimization
Reduced suction loss and improving oil collection through the optimization of suction path.

Surface Coating
Shaft coating and polishing has been improved.

Twin Rotary Rotor
- Upper and lower part rotor offset imbalance in shaft rotor rotation.
  Max Torque has been decreased by 45% compared to single rotor.
- Vibration and noise is also reduced.

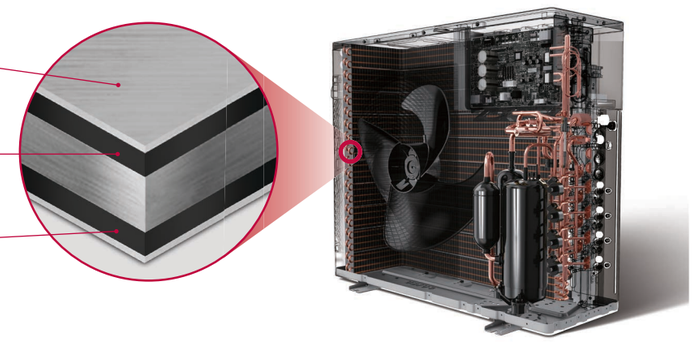
Black Fin Heat Exchanger

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. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup and eventually making it even more corrosion resistant.

Hydrophilic film (Water flow)
The Hydrophilic coating minimizes moisture buildup on the fin.

Epoxy resin (Corrosion resistant)
The Black coating provides strong protection from corrosion.

Aluminum fin

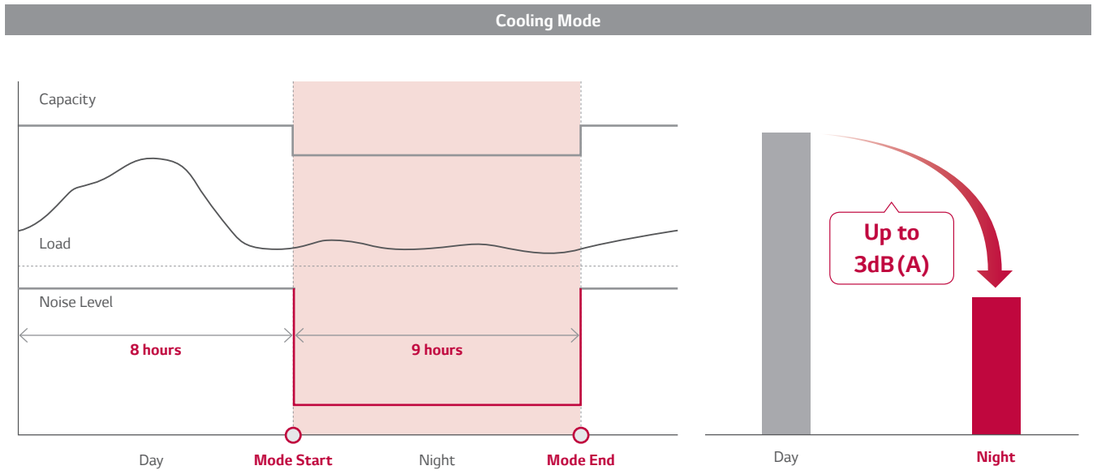


MULTI SPLIT KEY FEATURES

COMFORT AND CONVENIENCE

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.

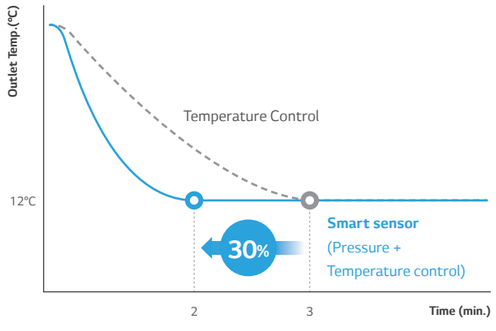


* This function is only available for Cooling Mode.
* If you want to stop the Night Quiet Mode, Change the Dip Switch.

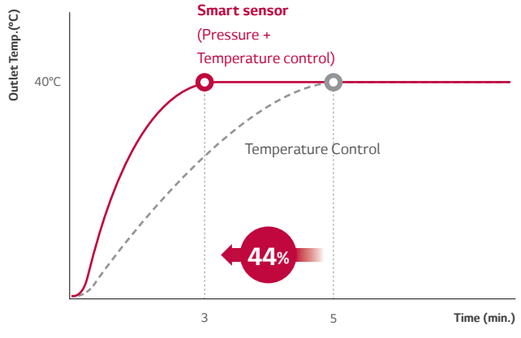
Fast Cooling & Heating

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



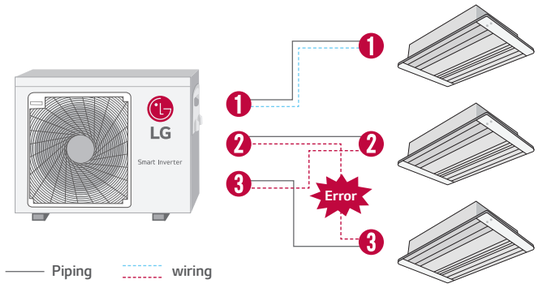
• Heating



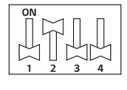
* LG Internal test result

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.



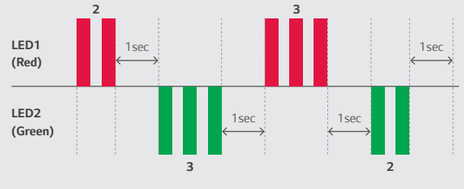
* How to set dip switch



• LED Result

- If the wiring is correct, the Green LED will light up.
- If the wiring is wrong, display as below
  - Red LED : Piping Number
  - Green LED : Wiring Number (Room)

Ex) If the Red LED blinks twice and the Green LED blinks 3 times, 2nd pipe is connected to 3rd room



MULTI SPLIT KEY FEATURES

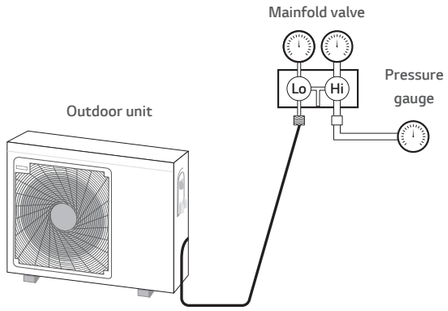
COMFORT AND CONVENIENCE

Monitoring PCB

If there is any problem, without disassembly of chassis, engineers can quickly check air conditioner's error code through 7-segment error indicator

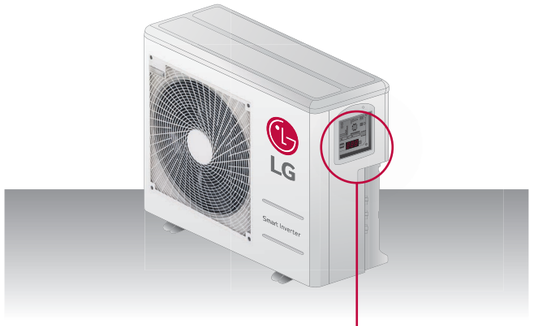
Conventional

Many tools are needed for checking cycle data.



Monitoring PCB

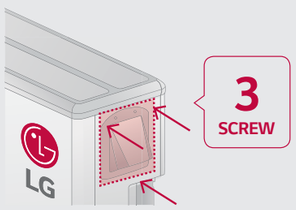
Easy & Quick cycle data Check by Monitoring PCB



• UL4, UE4 chassis

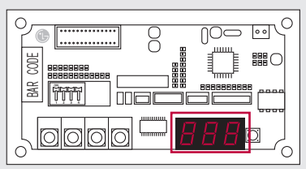
STEP 1

Opening the control cover



STEP 2

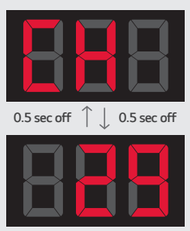
Simply Checking the data on PCB



7-segment error indicator

STEP 3

Displayed Error code sample



• Displayed Error code

ERROR CODE	CONTENTS	CASE OF ERROR	OUTDOOR STATUS
21	DC Link Peak (IPM Fault)	Over Rated Current	Off
22	CT 2 (Max CT)	Input Over Current	Off
23	DC Link Low Volt.	DC Link Volt is below 140V dc	Off
	DC Link High Volt.	DC Link Volt is above 420V dc	
25	Low Voltage / Over Voltage	Abnomal AC volt Input	Off
26	DC Compressor Position Error	Compressor Starting Fall Error	Off
27	PSC / PFC Fault Error	Over inverter PCB input Current	Off
29	COMP Over Current	Over inverter Compressor Current	Off

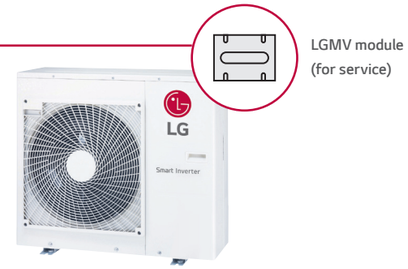
* Applied models : MU2R15 UL0 / MU2R17 UL0 / MU3R19 UE0 / MU3R21 UE0

LG MV (Monitoring View)

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

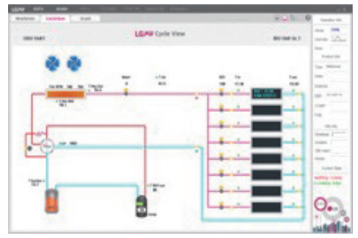
Mobile MV

PC based LGMV
(for service)



LGMV module
(for service)

Operation information



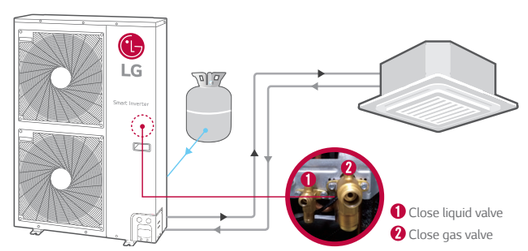
Cycle View

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

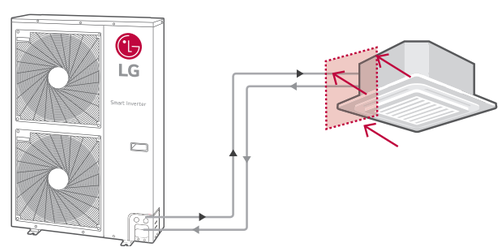
Forced Cooling Operation

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.

Recharging



Pump Down



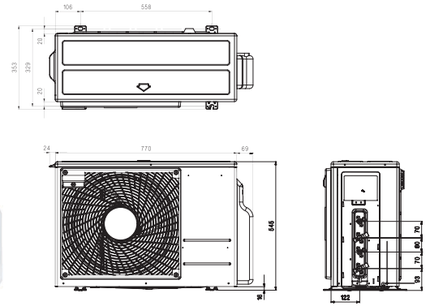
R32
MULTI SPLIT

R32 MULTI SPLIT

OUTDOOR UNITS

MU2R15
MU2R17

(Unit : mm)



LG participates in the ECP programme for EUROVENT AC program.
Check ongoing validity of certification
: www.eurovent-certification.com

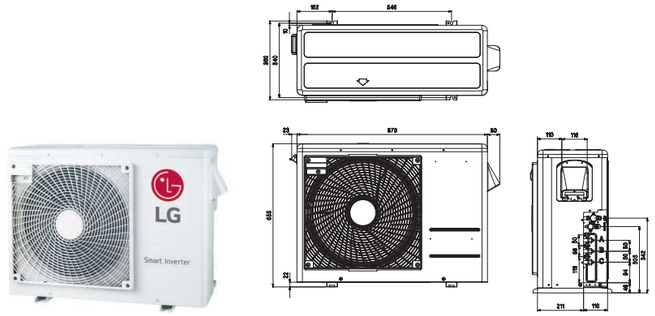
OUTDOOR UNIT				MU2R15.UL0	MU2R17.UL0
Compressor	Type			Twin Rotary	Twin Rotary
Capacity *	Cooling	Min / Nom / Max	kW	0.9 / 4.1 / 4.7	0.9 / 4.7 / 5.4
	Heating	Min / Nom / Max	kW	1.0 / 4.7 / 5.4	1.0 / 5.3 / 5.7
Low Temperature Capacity	Heating -7°C	Max	kW	3.3	3.7
Power Input *	Cooling	Min / Nom / Max	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	4.10
Seasonal Energy Label	Cooling / Heating			A+++ (A+++ to D Scale) / A+	A++ (A++ to E Scale) / A+
Annual Energy Consumption	Cooling / Heating			169 / 1,367	210 / 1,367
Airflow Rate	Nom		m^3/min	28.2	28.2
Sound Pressure	Cooling	Nom	dBA	48	48
	Heating	Nom	dBA	51	51
Sound Power	Cooling	Max	dBA	61	63
Dimensions	W x H x D		mm	770 x 545 x 288	770 x 545 x 288
Net Weight			Kg	36	36
Refrigerant	Type			R32	R32
	Charge		Kg	1.1	1.1
	Additional Charge		g/m	20	20
	GWP			675	675
	t-CO_2 eq			0.74	0.74
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^2	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm^2	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

MU3R19
MU3R21

(Unit : mm)



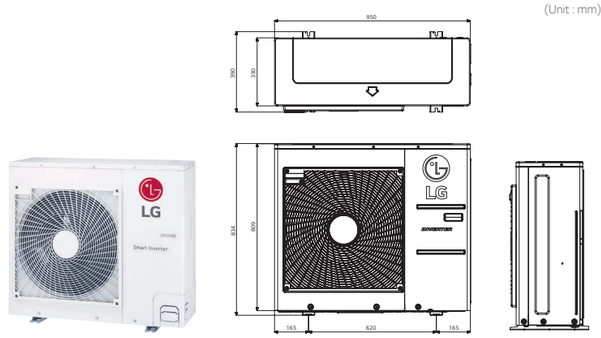
LG participates in the ECP programme for EUROVENT AC program.
Check ongoing validity of certification
: www.eurovent-certification.com

OUTDOOR UNIT				MU3R19.UE0	MU3R21.UE0
Compressor	Type			Twin Rotary	Twin Rotary
Capacity *	Cooling	Min / Nom / Max	kW	1.1 / 5.3 / 6.3	1.1 / 6.2 / 7.3
	Heating	Min / Nom / Max	kW	1.2 / 6.3 / 7.3	1.2 / 7.0 / 7.8
Low Temperature Capacity	Heating -7°C	Max	kW	4.4	4.9
Power Input *	Cooling	Min / Nom / Max	kW	0.2 / 1.2 / 1.8	0.2 / 1.4 / 2.1
	Heating	Min / Nom / Max	kW	0.3 / 1.4 / 2.0	0.3 / 1.6 / 2.3
Running Current	Cooling	Min / Nom / Max	A	1.1 / 5.3 / 8.1	1.1 / 6.7 / 9.6
	Heating	Min / Nom / Max	A	1.1 / 6.3 / 9.4	1.1 / 7.4 / 10.6
EER				4.59	4.27
COP				4.62	4.42
SEER				8.50	8.50
SCOP				4.21	4.21
Pdesign (@-10°C)			kW	4.90	4.90
Seasonal Energy Label	Cooling / Heating (A+++ to D Scale)			A+++ / A+	A+++ / A+
Annual Energy Consumption	Cooling / Heating			217 / 1,629	253 / 1,629
Airflow Rate	Nom		m^3/min	50	50
Sound Pressure	Cooling	Nom	dBA	49	50
	Heating	Nom	dBA	54	54
Sound Power	Cooling	Max	dBA	63	64
Dimensions	W x H x D		mm	870 x 655 x 320	870 x 655 x 320
Net Weight			Kg	44	44
Refrigerant	Type			R32	R32
	Charge		Kg	1.4	1.4
	Additional Charge		g/m	20	20
	GWP			675	675
	t-CO_2 eq			0.95	0.95
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^2	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	20
Piping Length Total			m	50	50
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 3	Ø6.35 (1/4) x 3
	Gas		mm (inch) x No.	Ø9.52 (3/8) x 3	Ø9.52 (3/8) x 3

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)

MU4R25
MU4R27
MU5R30

(Unit : mm)



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Check ongoing validity of certification
: www.eurovent-certification.com

OUTDOOR UNIT				MU4R25.U40	MU4R27.U40	MU5R30.U40
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary
Capacity *	Cooling	Min / Nom / Max	kW	1.3 / 7.0 / 8.5	1.3 / 7.9 / 9.5	1.3 / 8.8 / 10.6
	Heating	Min / Nom / Max	kW	1.5 / 8.4 / 9.4	1.5 / 9.1 / 10.6	1.5 / 10.1 / 12.1
Low Temperature Capacity	Heating -7°C	Max	kW	5.9	6.4	7.1
Power Input *	Cooling	Min / Nom / Max	kW	0.4 / 1.5 / 2.6	0.4 / 1.8 / 2.9	0.4 / 2.0 / 3.4
	Heating	Min / Nom / Max	kW	0.6 / 1.8 / 2.9	0.6 / 2.1 / 3.4	0.6 / 2.2 / 3.6
Running Current	Cooling	Min / Nom / Max	A	1.9 / 6.6 / 11.9	1.9 / 8.1 / 13.1	1.9 / 9.1 / 15.2
	Heating	Min / Nom / Max	A	2.8 / 8.3 / 13.1	2.8 / 9.4 / 15.3	2.8 / 9.7 / 16.3
EER				4.82	4.39	4.40
COP				4.61	4.39	4.70
SEER				8.20	8.00	8.20
SCOP				4.20	4.20	4.20
Pdesign (@-10°C)			kW	7.00	7.00	7.20
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating			299 / 2,333	346 / 2,333	376 / 2,467
Airflow Rate	Nom		m^3/min	60	60	60
Sound Pressure	Cooling	Nom	dBA	49	50	50
	Heating	Nom	dBA	53	54	54
Sound Power	Cooling	Max	dBA	64	65	66
Dimensions	W x H x D		mm	950 x 834 x 330	950 x 834 x 330	950 x 834 x 330
Net Weight			Kg	61	61	61
Refrigerant	Type			R32	R32	R32
	Charge		Kg	2.3	2.3	2.6
	Additional Charge		g/m	20	20	20
	GWP			675	675	675
	t-CO_2 eq			1.55	1.55	1.76
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^2	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	25	25	25
Piping Length Total			m	70	70	75
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 4	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 4	Ø9.52 (3/8) x 5

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)

R32 MULTI SPLIT

WALL MOUNTED UNITS

	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 Unit	ARTCOOL Gallery	-	-	○● A09FR.NSF	○● A12AR.NSF	-	-	-
	ARTCOOL Mirror	-	● AM07BP.NSJ	○● AC09BQ.NSJ	○● AC12BQ.NSJ	-	○● AC18BQ.NSK	○● AM24BP.NSK

* ARTCOOL Gallery is available in May, '19

	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 Unit	ARTCOOL Silver (NEW)	-		○● AC09SQ.NSJ	○● AC12SQ.NSJ	-	○● AC18SQ.NSK	
	Deluxe	-	● DM07RP.NSJ	○● DC09RQ.NSJ	○● DC12RQ.NSJ	-	○● DC18RQ.NSK	○● DM24RP.NSK

NEW Silver Color is available from Mar, '19

ARTCOOL Gallery

				A09FR.NSF	A12FR.NSF
Capacity	Cooling / Heating	Nom	kW	2.6 / 2.9	3.5 / 3.9
Power Input			W x No.	40 x 1	40 x 1
Running Current			A	0.1	0.1
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate		H / M / L	m^3/min	7.7 / 5.9 / 4.4	8.9 / 7.3 / 5.6
Sound Pressure	Cooling	H / M / L	dB(A)	38 / 32 / 27	44 / 38 / 32
Sound Power	Cooling		dB(A)	52	54
Dehumidification Rate			l/h	1.2	1.4
Dimensions	Body	W x H x D	mm	600 x 600 x 145	600 x 600 x 145
Net Weight	Body		kg	15.0	15.0
Piping Connections	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)

ARTCOOL Silver

				AC09SQ.NSJ	AC12SQ.NSJ	AC18SQ.NSK
Capacity	Cooling / Heating	Nom	kW	2.5 / 3.2	3.5 / 3.8	5.0 / 5.8
Power Input		Nom	W	18	19	39
Running Current		Nom	A	0.16	0.17	0.28
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate		H / M / L	m^3/min	9.2 / 7.4 / 5.6	9.6 / 8.1 / 5.6	14.2 / 11.3 / 9.9
Sound Pressure	Cooling	H / M / L	dB(A)	36 / 33 / 27	40 / 35 / 27	44 / 38 / 35
Sound Power	Cooling		dB(A)	57	57	59
Dehumidification Rate			l/h	1.1	1.2	1.9
Dimension		W x H x D	mm	837 x 308 x 192	837 x 308 x 192	998 x 345 x 212
Net weight			kg	9.9	9.9	13.2
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)

ARTCOOL Mirror

				AM07BP.NSJ	AC09BQ.NSJ	AC12BQ.NSJ	AC18BQ.NSJ	AM24BP.NSJ
Capacity	Cooling / Heating	Nom	kW	2.1 / 2.3	2.5 / 3.2	3.5 / 3.8	5.0 / 5.8	6.6 / 7.5
Power Input		Nom	W	17	18	19	39	45
Running Current		Nom	A	0.14	0.16	0.17	0.28	0.33
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
Air Flow Rate		H / M / L	m^3/min	8.6 / 7.2 / 5.6	9.2 / 7.4 / 5.6	9.6 / 8.1 / 5.6	14.2 / 11.3 / 9.9	15.2 / 12.7 / 10.2
Sound Pressure	Cooling	H / M / L	dB(A)	35 / 32 / 27	36 / 33 / 27	40 / 35 / 27	44 / 38 / 35	46 / 41 / 36
Sound Power	Cooling		dB(A)	57	57	57	59	65
Dehumidification Rate			l/h	0.9	1.1	1.2	1.9	2.6
Dimension		W x H x D	mm	837 x 308 x 192	837 x 308 x 192	837 x 308 x 192	998 x 345 x 212	998 x 345 x 212
Net weight			kg	9.1	9.9	9.9	13.2	11.6
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 12.7 (1/2)

DELUXE

				DM07RP.NSJ	DC09RQ.NSJ	DC12RQ.NSJ	DC18RQ.NSK	DM24RP.NSK
Capacity	Cooling / Heating	Nom	kW	2.1 / 2.3	2.5 / 3.2	3.5 / 4.0	5.0 / 5.8	6.6 / 7.5
Power Input		Nom	W	17	18	19	39	45
Running Current		Nom	A	0.15	0.16	0.17	0.28	0.33
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
Air Flow Rate		H / M / L	m^3/min	7.5 / 6.1 / 4.9	7.7 / 6.4 / 5.0	8.1 / 6.7 / 5.3	14.2 / 11.3 / 9.9	15.2 / 12.7 / 10.2
Sound Pressure	Cooling	H / M / L	dB(A)	35 / 31 / 26	36 / 32 / 27	38 / 34 / 29	44 / 38 / 34	47 / 41 / 36
Sound Power	Cooling		dB(A)	56	56	56	60	64
Dehumidification Rate			l/h	0.9	1.1	1.2	1.9	2.6
Dimension		W x H x D	mm	837 x 308 x 189	837 x 308 x 189	837 x 308 x 189	998 x 345 x 210	998 x 345 x 210
Net weight			kg	8.3	8.3	8.3	12.0	12.0
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 12.7 (1/2)

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R32 MULTI SPLIT

WALL MOUNTED UNITS

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 Unit	Sirius		● PM05SP.NSJ	● PM07SP.NSJ	○● PC09SQ.NSJ	○● PC12SQ.NSJ	● PM15SP.NSJ	○● PC18SQ.NSK	○● PM24SP.NSK
			● MJ05PC.NSJ	● MJ07PC.NSJ	● MJ09PC.NSJ	● MJ12PC.NSJ	● MJ15PC.NSJ	● MJ18PC.NSK	● MJ24PC.NSK

SIRIUS

				PM05SP.NSJ	PM07SP.NSJ	PC09SQ.NSJ	PC12SQ.NSJ	PM15SP.NSJ	PC18SQ.NSK	PM24SP.NSK
Capacity	Cooling / Heating	Nom	kW	1.5 / 1.6	2.1 / 2.3	2.5 / 3.2	3.5 / 3.8	4.2 / 5.4	5.0 / 5.8	6.6 / 7.5
Power Input		Nom	W	16	17	18	19	21	39	45
Running Current		Nom	A	0.13	0.14	0.16	0.17	0.18	0.28	0.33
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate		H / M / L	m^3/min	8.3 / 6.7 / 5.6	8.6 / 7.2 / 5.6	9.2 / 7.4 / 5.6	9.6 / 8.1 / 5.6	100/85/61	142/113/99	152/127/102
Sound Pressure		H / M / L	dB(A)	34 / 31 / 27	35 / 32 / 27	36 / 33 / 27	40 / 35 / 27	41 / 36 / 29	44 / 38 / 35	46 / 41 / 36
Sound Power			dB(A)	57	57	57	57	57	59	65
Dehumidification Rate			l/h	0.9	0.9	1.1	1.2	1.2	1.9	2.6
Dimension		W x H x D	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	998 x 345 x 210	998 x 345 x 210
Net weight			kg	7.4	7.4	8.7	8.7	8.7	12.0	12.8
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 12.7 (1/2)

				MJ05PC.NSJ	MJ07PC.NSJ	MJ09PC.NSJ	MJ12PC.NSJ	MJ15PC.NSJ	MJ18PC.NSK	MJ24PC.NSK
Capacity	Cooling / Heating	Nom	kW	1.5 / 1.6	2.1 / 2.3	2.5 / 3.2	3.5 / 3.8	4.2 / 5.4	5.0 / 5.8	6.6 / 7.5
Power Input		Nom	W	16	17	18	19	21	39	45
Running Current		Nom	A	0.13	0.14	0.16	0.17	0.18	0.28	0.33
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate		H / M / L	m^3/min	8.3 / 6.7 / 5.6	8.6 / 7.2 / 5.6	9.2 / 7.4 / 5.6	9.6 / 8.1 / 5.6	10.0 / 8.5 / 6.1	14.2 / 11.3 / 9.9	152/127/102
Sound Pressure		H / M / L	dB(A)	34 / 31 / 27	35 / 32 / 27	36 / 33 / 27	40 / 35 / 27	41 / 36 / 29	44 / 38 / 35	46 / 41 / 36
Sound Power			dB(A)	57	57	57	57	57	59	65
Dehumidification Rate			l/h	0.9	0.9	1.1	1.2	1.2	1.9	2.6
Dimension		W x H x D	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	998 x 345 x 210	998 x 345 x 210
Net weight			kg	8.7	8.7	8.7	8.7	8.7	12.0	12.8
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 12.7 (1/2)

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R32 MULTI SPLIT

CEILING MOUNTED CASSETTE

KBTU/H			5	7	9	12	15	18	24
KW			1.5	2.1	2.6	3.5	4.2	5.3	7.0
Ceiling Mounted Cassette	1 Way Cassette		-	-	● MT09R.NU1	● MT11R.NU1	-	-	-
	4 Way Cassette		● MT06R.NR0	● MT08R.NR0	● CT09R.NR0	● CT12R.NR0	-	● CT18R.NQ0	● CT24R.NP0

1Way 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	m^3/min	7.5 / 7.3 / 6.8	8.1 / 7.4 / 7.0
Sound Pressure	Cooling	H / M / L	dBA	36 / 34 / 32	37 / 36 / 33
Sound Power	Cooling	Max	dBA	54	57
Dehumidification Rate			l/h	1.1	1.2
Dimensions	Body	W x H x D	mm	860 × 132 × 450	860 × 132 × 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-UUC1	PT-UUC1
	Color			Morning Fog (RAL120-4)	Morning Fog (RAL120-4)
	Dimensions	W x H x D	mm	1,100 × 34 × 500	1,100 × 34 × 500
	Weight		kg	4.4	4.4

4Way Cassette

				MT06R.NR0	MT08R.NR0	CT09R.NR0	CT12R.NR0	CT18R.NQ0	CT24R.NP0
Capacity	Cooling / Heating	Nom	kW	1.5 / 1.6	2.1 / 2.3	2.6 / 2.9	3.5 / 3.9	5.3 / 5.8	6.7 / 7.5
Power Input		Nom	W	20	20	20	20	40	60
Running Current		Nom	A	0.40	0.40	0.40	0.40	0.40	0.60
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
Air Flow Rate		H / M / L	m^3/min	7.5 / 6.0 / 5.0	7.5 / 6.0 / 5.0	8.5 / 7.0 / 6.0	9.5 / 8.0 / 7.0	13.0 / 12.0 / 11.0	17.0 / 15.0 / 13.0
Sound Pressure		H / M / L	dB(A)	31 / 27 / 24	31 / 27 / 24	36 / 33 / 30	38 / 35 / 32	41 / 39 / 36	38 / 36 / 34
Sound Power			dB(A)	48	48	52	52	57	57
Dehumidification Rate			l/h	-	-	0.9	1.4	2.0	2.7
Dimension		W x H x D	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	840 x 204 x 840
Net weight			kg	14.0	14.0	14.0	14.0	14.3	20.5
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	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)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø12.7 (1/2)
Decoration Panel	Model			PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-MCHW0
	Color			Morning Fog (RAL 120-4)					
	Dimensions	W x H x D	mm	620 x 20 x 620	620 x 20 x 620	620 x 20 x 620	620 x 20 x 620	620 x 20 x 620	950 x 35 x 950
	Weight		kg	3.0	3.0	3.0	3.0	3.0	6.3

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R32 MULTI SPLIT

CEILING CONCEALED DUCT

kBtu/h			05	07	09	12	15	18	24
kW			1.5	2.1	2.6	3.5	4.2	5.3	7.0
Ceiling Concealed Duct	Mid / High Static Pressure		-	-	-	-	-	● CM18R.N10	● CM24R.N10
	Low Static Pressure		-	-	● CL09R.N20	● CL12R.N20	-	● CL18R.N20	● CL24R.N30

Duct (Mid Static)

				CM18R.N10	CM24R.N10
Capacity	Cooling / Heating	Nom	kW	5.3 / 5.8	7.0 / 7.7
Power Input		Nom	W	160	180
Running Current		Nom	A	0.90	1.00
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate		H / M / L	m^3/min	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.5
Sound Pressure		H / M / L	dB(A)	34 / 32 / 30	35 / 34 / 32
Sound Power			dB(A)	59	60
Dehumidification Rate			l/h	1.5	2.5
Dimension		W x H x D	mm	900 x 270 x 700	900 x 270 x 700
Net weight			kg	26.5	26.5
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas		mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
External Static Pressure	Min-Max		mmAq (Pa)	2~15 (20~147)	2~15 (20~147)

Duct (Low Static)

				CL09R.N20	CL12R.N20	CL18R.N20	CL24R.N30
Capacity	Cooling / Heating	Nom	kW	2.6 / 2.9	3.5 / 3.9	5.3 / 5.8	7.0 / 7.7
Power Input		Nom	W	100	100	140	160
Running Current		Nom	A	0.80	0.80	0.80	1.00
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate		H / M / L	m^3/min	10.0 / 8.5 / 7.0	10.0 / 8.5 / 7.0	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
Sound Pressure		H / M / L	dB(A)	31 / 28 / 27	31 / 28 / 27	36 / 34 / 31	39 / 35 / 32
Sound Power			dB(A)	55	55	54	58
Dehumidification Rate			l/h	0.55	1.11	1.58	2.65
Dimension		W x H x D	mm	900 x 190 x 700	900 x 190 x 700	900 x 190 x 700	1,100 x 190 x 700
Net weight			kg	24.0	24.0	24.0	27.0
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)	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)	Ø12.7 (1/2)
External Static Pressure	Min-Max		mmAq (Pa)	0~5 (0~50)	0~5 (0~50)	0~5 (0~50)	0~5 (0~50)

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

COMBINATION TABLE

MU2R15

Cooling														
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

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MU2R17

Cooling														
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
	15				15	8,520	2.50	14,200	4.16	16,330	4.79	648	1,196	1,588
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	1,058
	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	9,600	2.81	16,000	4.69	18,400	5.39	657	1,251	1,699
	5	12			17	9,600	2.81	16,000	4.69	18,400	5.39	657	1,251	1,699
	9	9			18	9,600	2.81	16,000	4.69	18,400	5.39	657	1,251	1,699
	7	12			19	9,600	2.81	16,000	4.69	18,400	5.39	657	1,251	1,699
	5	15			20	9,600	2.81	16,000	4.69	18,400	5.39	657	1,251	1,699
	9	12			21	9,600	2.81	16,000	4.69	18,400	5.39	657	1,251	1,699
	7	15			22	9,600	2.81	16,000	4.69	18,400	5.39	657	1,251	1,699
	9	15			24	9,600	2.81	16,000	4.69	18,400	5.39	657	1,251	1,699
	12	12			24	9,600	2.81	16,000	4.69	18,400	5.39	657	1,251	1,699

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	758	920
	12				12	7,920	2.32	13,200	3.87	14,520	4.26	554	942	1,155
	15				15	9,900	2.90	16,500	4.84	18,150	5.32	706	1,187	1,489
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	10,800	3.17	18,000	5.28	19,400	5.69	706	1,247	1,633
	5	12			17	10,800	3.17	18,000	5.28	19,400	5.69	706	1,247	1,633
	9	9			18	10,800	3.17	18,000	5.28	19,400	5.69	706	1,247	1,633
	7	12			19	10,800	3.17	18,000	5.28	19,400	5.69	706	1,247	1,633
	5	15			20	10,800	3.17	18,000	5.28	19,400	5.69	706	1,247	1,633
	9	12			21	10,800	3.17	18,000	5.28	19,400	5.69	706	1,247	1,633
	7	15			22	10,800	3.17	18,000	5.28	19,400	5.69	706	1,247	1,633
	9	15			24	10,800	3.17	18,000	5.28	19,400	5.69	706	1,247	1,633
	12	12			24	10,800	3.17	18,000	5.28	19,400	5.69	706	1,247	1,633

R32 MULTI SPLIT

COMBINATION TABLE

MU3R19

Cooling														
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	235	356	527
	7				7	4,200	1.23	7,000	2.05	8,400	2.46	257	462	623
	9				9	5,400	1.58	9,000	2.64	10,800	3.17	346	580	814
	12				12	7,200	2.11	12,000	3.52	14,400	4.22	462	802	1,101
	15				15	8,520	2.50	14,200	4.16	17,040	4.99	556	983	1,276
	18				18	10,800	3.17	18,000	5.28	21,600	6.33	727	1,282	1,806
2 UNIT	5	5			10	6,000	1.76	10,000	2.93	12,000	3.52	373	620	854
	5	7			12	7,200	2.11	12,000	3.52	14,400	4.22	439	762	1,046
	5	9			14	8,400	2.46	14,000	4.10	16,800	4.92	528	909	1,246
	7	7			14	8,400	2.46	14,000	4.10	16,800	4.92	528	909	1,246
	7	9			16	9,600	2.81	16,000	4.69	19,200	5.63	597	1,061	1,504
	5	12			17	10,200	2.99	17,000	4.98	20,400	5.98	644	1,139	1,644
	9	9			18	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	7	12			19	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	5	15			20	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	9	12			21	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	7	15			22	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	5	18			23	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	9	15			24	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	12	12			24	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	7	18			25	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	9	18			27	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	12	15			27	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	12	18			30	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	15	15			30	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
3 UNIT	5	5	5		15	9,000	2.64	15,000	4.40	18,000	5.28	524	935	1,289
	5	5	7		17	10,200	2.99	17,000	4.98	20,400	5.98	611	1,082	1,562
	5	5	9		19	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	5	7	7		19	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	5	7	9		21	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	7	7	7		21	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	5	5	12		22	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	5	9	9		23	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	7	7	9		23	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	5	7	12		24	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	5	5	15		25	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	7	9	9		25	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	5	9	12		26	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	7	7	12		26	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	5	7	15		27	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	9	9	9		27	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	7	9	12		28	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	5	9	15		29	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	5	12	12		29	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	7	7	15		29	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668
	9	9	12		30	10,800	3.17	18,000	5.28	21,600	6.33	656	1,151	1,668

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	4,000	1.17	5,500	1.61	6,325	1.85	248	368	539
	7				7	5,040	1.48	8,400	2.46	9,660	2.83	313	537	680
	9				9	6,480	1.90	10,800	3.17	12,420	3.64	401	702	896
	12				12	7,920	2.32	13,200	3.87	15,180	4.45	491	874	1,121
	15				15	9,900	2.90	16,500	4.84	18,975	5.56	631	1,105	1,479
	18				18	11,880	3.48	19,800	5.80	22,770	6.67	775	1,376	1,829
2 UNIT	5	5			10	7,200	2.11	12,000	3.52	13,800	4.04	424	736	957
	5	7			12	8,640	2.53	14,400	4.22	16,560	4.85	511	903	1,204
	5	9			14	10,080	2.95	16,800	4.92	19,320	5.66	622	1,075	1,435
	7	7			14	10,080	2.95	16,800	4.92	19,320	5.66	622	1,075	1,435
	7	9			16	11,520	3.38	19,200	5.63	22,080	6.47	713	1,255	1,676
	5	12			17	12,240	3.59	20,400	5.98	23,460	6.88	760	1,361	1,801
	9	9			18	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
	7	12			19	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
	5	15			20	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
	9	12			21	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
	7	15			22	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
	5	18			23	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
	9	15			24	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
	12	12			24	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
	7	18			25	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
	9	18			27	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
	12	15			27	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
	12	18			30	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
	15	15			30	12,960	3.80	21,600	6.33	24,840	7.28	807	1,442	2,028
3 UNIT	5	5	5		15	10,800	3.17	18,000	5.28	20,700	6.07	634	1,118	1,476
	5	5	7		17	12,240	3.59	20,400	5.98	23,460	6.88	722	1,293	1,711
	5	5	9		19	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	5	7	7		19	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	5	7	9		21	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	7	7	7		21	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	5	5	12		22	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	5	9	9		23	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	7	7	9		23	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	5	7	12		24	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	5	5	15		25	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	7	9	9		25	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	5	9	12		26	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	7	7	12		26	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	5	7	15		27	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	9	9	9		27	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	7	9	12		28	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	5	9	15		29	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	5	12	12		29	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	7	7	15		29	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944
	9	9	12		30	12,960	3.80	21,600	6.33	24,840	7.28	766	1,370	1,944

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

COMBINATION TABLE

MU3R21

Cooling														
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	235	356	527
	7				7	4,200	1.23	7,000	2.05	8,400	2.46	257	462	623
	9				9	5,400	1.58	9,000	2.64	10,800	3.17	346	580	814
	12				12	7,200	2.11	12,000	3.52	14,400	4.22	462	802	1,101
	15				15	8,520	2.50	14,200	4.16	17,040	4.99	556	983	1,276
	18				18	10,800	3.17	18,000	5.28	21,600	6.33	727	1,282	1,806
2 UNIT	5	5			10	6,000	1.76	10,000	2.93	12,000	3.52	373	620	854
	5	7			12	7,200	2.11	12,000	3.52	14,400	4.22	439	762	1,046
	5	9			14	8,400	2.46	14,000	4.10	16,800	4.92	528	909	1,246
	7	7			14	8,400	2.46	14,000	4.10	16,800	4.92	528	909	1,246
	7	9			16	9,600	2.81	16,000	4.69	19,200	5.63	597	1,061	1,504
	5	12			17	10,200	2.99	17,000	4.98	20,400	5.98	644	1,139	1,644
	9	9			18	10,800	3.17	18,000	5.28	21,600	6.33	691	1,218	1,761
	7	12			19	11,400	3.34	19,000	5.57	22,800	6.68	714	1,343	1,950
	5	15			20	12,000	3.52	20,000	5.86	23,100	6.77	762	1,436	1,999
	9	12			21	12,600	3.69	21,000	6.15	23,100	6.77	811	1,532	1,999
	7	15			22	12,600	3.69	21,000	6.15	23,100	6.77	811	1,532	1,999
	5	18			23	12,600	3.69	21,000	6.15	23,100	6.77	811	1,532	1,999
	9	15			24	12,600	3.69	21,000	6.15	23,100	6.77	811	1,532	1,999
	12	12			24	12,600	3.69	21,000	6.15	23,100	6.77	811	1,532	1,999
	7	18			25	12,600	3.69	21,000	6.15	23,100	6.77	811	1,532	1,999
	9	18			27	12,600	3.69	21,000	6.15	23,100	6.77	811	1,532	1,999
	12	15			27	12,600	3.69	21,000	6.15	23,100	6.77	811	1,532	1,999
	12	18			30	12,600	3.69	21,000	6.15	23,100	6.77	811	1,532	1,999
	15	15			30	12,600	3.69	21,000	6.15	23,100	6.77	811	1,532	1,999
	15	18			33	12,600	3.69	21,000	6.15	23,100	6.77	811	1,532	1,999
3 UNIT	5	5	5		15	9,000	2.64	15,000	4.40	18,000	5.28	524	935	1,289
	5	5	7		17	10,200	2.99	17,000	4.98	20,400	5.98	611	1,082	1,562
	5	5	9		19	11,400	3.34	19,000	5.57	22,800	6.68	679	1,276	1,824
	5	7	7		19	11,400	3.34	19,000	5.57	22,800	6.68	679	1,276	1,824
	5	7	9		21	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	7	7	7		21	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	5	5	12		22	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	5	9	9		23	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	7	7	9		23	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	5	7	12		24	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	5	5	15		25	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	7	9	9		25	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	5	9	12		26	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	7	7	12		26	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	5	7	15		27	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	9	9	9		27	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	5	5	18		28	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	7	9	12		28	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	5	9	15		29	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	5	12	12		29	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	7	7	15		29	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	5	7	18		30	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	9	9	12		30	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	7	9	15		31	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	7	12	12		31	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	5	12	15		32	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	5	9	18		32	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	7	7	18		32	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	9	9	15		33	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073
	9	12	12		33	12,600	3.69	21,000	6.15	25,000	7.33	770	1,444	2,073

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	4,000	1.17	5,500	1.61	6,325	1.85	248	368	539
	7				7	5,040	1.48	8,400	2.46	9,660	2.83	313	537	680
	9				9	6,480	1.90	10,800	3.17	12,420	3.64	401	702	896
	12				12	7,920	2.32	13,200	3.87	15,180	4.45	491	874	1,121
	15				15	9,900	2.90	16,500	4.84	18,975	5.56	631	1,105	1,479
	18				18	11,880	3.48	19,800	5.80	22,770	6.67	775	1,376	1,829
2 UNIT	5	5			10	7,200	2.11	12,000	3.52	13,800	4.04	424	736	957
	5	7			12	8,640	2.53	14,400	4.22	16,560	4.85	511	903	1,204
	5	9			14	10,080	2.95	16,800	4.92	19,320	5.66	622	1,075	1,435
	7	7			14	10,080	2.95	16,800	4.92	19,320	5.66	622	1,075	1,435
	7	9			16	11,520	3.38	19,200	5.63	22,080	6.47	713	1,255	1,676
	5	12			17	12,240	3.59	20,400	5.98	23,460	6.88	760	1,308	1,801
	9	9			18	12,960	3.80	21,600	6.33	24,840	7.28	807	1,388	2,028
	7	12			19	13,320	3.90	22,200	6.51	25,530	7.48	831	1,442	2,135
	5	15			20	13,740	4.03	22,900	6.71	26,335	7.72	854	1,496	2,245
	9	12			21	14,400	4.22	24,000	7.03	26,500	7.77	903	1,580	2,302
	7	15			22	14,400	4.22	24,000	7.03	26,500	7.77	903	1,580	2,302
	5	18			23	14,400	4.22	24,000	7.03	26,500	7.77	903	1,580	2,302
	9	15			24	14,400	4.22	24,000	7.03	26,500	7.77	903	1,580	2,302
	12	12			24	14,400	4.22	24,000	7.03	26,500	7.77	903	1,580	2,302
	7	18			25	14,400	4.22	24,000	7.03	26,500	7.77	903	1,580	2,302
	9	18			27	14,400	4.22	24,000	7.03	26,500	7.77	903	1,580	2,302
	12	15			27	14,400	4.22	24,000	7.03	26,500	7.77	903	1,580	2,302
	12	18			30	14,400	4.22	24,000	7.03	26,500	7.77	903	1,580	2,302
	15	15			30	14,400	4.22	24,000	7.03	26,500	7.77	903	1,580	2,302
	15	18			33	14,400	4.22	24,000	7.03	26,500	7.77	903	1,580	2,302
3 UNIT	5	5	5		15	10,800	3.17	18,000	5.28	20,700	6.07	634	1,118	1,476
	5	5	7		17	12,240	3.59	20,400	5.98	23,460	6.88	722	1,293	1,711
	5	5	9		19	13,320	3.90	22,200	6.51	25,530	7.48	789	1,422	2,059
	5	7	7		19	13,320	3.90	22,200	6.51	25,530	7.48	789	1,422	2,059
	5	7	9		21	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	7	7	7		21	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	5	5	12		22	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	5	9	9		23	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	7	7	9		23	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	5	7	12		24	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	5	5	15		25	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	7	9	9		25	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	5	9	12		26	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	7	7	12		26	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	5	7	15		27	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	9	9	9		27	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	5	5	18		28	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	7	9	12		28	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	5	9	15		29	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	5	12	12		29	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	7	7	15		29	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	5	7	18		30	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	9	9	12		30	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	7	9	15		31	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	7	12	12		31	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	5	12	15		32	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	5	9	18		32	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	7	7	18		32	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	9	9	15		33	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241
	9	12	12		33	14,400	4.22	24,000	7.03	26,500	7.77	857	1,591	2,241

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

COMBINATION TABLE

MU4R25

Cooling														
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	629
	7				7	4,800	1.41	7,000	2.05	8,400	2.46	416	494	681
	9				9	5,400	1.58	9,000	2.64	10,800	3.17	416	617	884
	12				12	7,200	2.11	12,000	3.52	14,400	4.22	494	846	1,184
	15				15	8,520	2.50	14,200	4.16	17,040	4.99	592	1,029	1,432
	18				18	10,800	3.17	18,000	5.28	21,600	6.33	769	1,328	1,852
	24				24	14,400	4.22	24,000	7.03	25,500	7.47	1,029	1,815	2,604
2 UNIT	5	5			10	6,000	1.76	10,000	2.93	12,000	3.52	378	623	876
	5	7			12	7,200	2.11	12,000	3.52	14,400	4.22	444	761	1,066
	5	9			14	8,400	2.46	14,000	4.10	16,800	4.92	533	927	1,261
	7	7			14	8,400	2.46	14,000	4.10	16,800	4.92	533	927	1,261
	7	9			16	9,600	2.81	16,000	4.69	19,200	5.63	601	1,072	1,461
	5	12			17	10,200	2.99	17,000	4.98	20,400	5.98	646	1,145	1,578
	9	9			18	10,800	3.17	18,000	5.28	21,600	6.33	692	1,220	1,667
	7	12			19	11,400	3.34	19,000	5.57	22,800	6.68	715	1,296	1,787
	5	15			20	12,000	3.52	20,000	5.86	24,000	7.03	761	1,372	1,878
	9	12			21	12,600	3.69	21,000	6.15	24,150	7.08	808	1,449	1,927
	7	15			22	13,200	3.87	22,000	6.45	25,300	7.42	855	1,501	2,066
	5	18			23	13,800	4.04	23,000	6.74	26,450	7.75	879	1,580	2,261
	9	15			24	14,400	4.22	24,000	7.03	28,800	8.44	927	1,675	2,572
	12	12			24	14,400	4.22	24,000	7.03	28,800	8.44	927	1,675	2,572
	7	18			25	14,400	4.22	24,000	7.03	28,800	8.44	927	1,675	2,572
	9	18			27	14,400	4.22	24,000	7.03	28,800	8.44	927	1,675	2,572
	12	15			27	14,400	4.22	24,000	7.03	28,800	8.44	927	1,675	2,572
	5	24			29	14,400	4.22	24,000	7.03	28,800	8.44	927	1,675	2,572
	12	18			30	14,400	4.22	24,000	7.03	28,800	8.44	927	1,675	2,572
	15	15			30	14,400	4.22	24,000	7.03	29,000	8.50	927	1,675	2,626
	7	24			31	14,400	4.22	24,000	7.03	29,000	8.50	927	1,675	2,626
	9	24			33	14,400	4.22	24,000	7.03	29,000	8.50	927	1,675	2,626
	15	18			33	14,400	4.22	24,000	7.03	29,000	8.50	927	1,675	2,626
	18	18			36	14,400	4.22	24,000	7.03	29,000	8.50	927	1,675	2,626
	12	24			36	14,400	4.22	24,000	7.03	29,000	8.50	927	1,675	2,626
3 UNIT	5	5	5		15	9,000	2.64	15,000	4.40	18,000	5.28	522	916	1,292
	5	5	7		17	10,200	2.99	17,000	4.98	20,400	5.98	607	1,054	1,483
	5	5	9		19	11,400	3.34	19,000	5.57	22,800	6.68	672	1,194	1,680
	5	7	7		19	11,400	3.34	19,000	5.57	22,800	6.68	672	1,194	1,680
	5	7	9		21	12,600	3.69	21,000	6.15	25,200	7.39	760	1,338	1,942
	7	7	7		21	12,600	3.69	21,000	6.15	25,200	7.39	760	1,338	1,942
	5	5	12		22	13,200	3.87	22,000	6.45	26,400	7.74	804	1,387	2,079
	5	9	9		23	13,800	4.04	23,000	6.74	27,600	8.09	826	1,461	2,278
	7	7	9		23	13,800	4.04	23,000	6.74	27,600	8.09	826	1,461	2,278
	5	7	12		24	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	5	5	15		25	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	7	9	9		25	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	5	9	12		26	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	7	7	12		26	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	5	7	15		27	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	9	9	9		27	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	7	9	12		28	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	5	5	18		28	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	5	9	15		29	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	5	12	12		29	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	7	7	15		29	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	5	7	18		30	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	9	9	12		30	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	7	9	15		31	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	7	12	12		31	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	5	12	15		32	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	5	9	18		32	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	7	7	18		32	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	9	9	15		33	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	9	12	12		33	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	7	9	18		34	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	7	12	15		34	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	5	5	24		34	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	5	12	18		35	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	5	15	15		35	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	5	7	24		36	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	9	12	15		36	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	12	12	12		36	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	9	9	18		36	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	7	12	18		37	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	7	15	15		37	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	5	9	24		38	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	5	15	18		38	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	7	7	24		38	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	9	12	18		39	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	9	15	15		39	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499
	12	12	15		39	14,400	4.22	24,000	7.03	29,000	8.50	871	1,535	2,499

Cooling														
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
4 UNIT	5	5	5	5	20	12,000	3.52	20,000	5.86	24,000	7.03	680	1,202	1,677
	5	5	5	7	22	13,200	3.87	22,000	6.45	26,400	7.74	764	1,317	1,975
	5	5	5	9	24	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,274
	5	5	7	7	24	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,274
	5	5	7	9	26	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,274
	5	7	7	7	26	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,274
	5	5	5	12	27	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,274
	5	5	9	9	28	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,274
	5	7	7	9	28	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,274
	7	7	7	7	28	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,274
	5	5	7	12	29	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,274
	5	5	5	15	30	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	7	9	9	30	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	7	7	7	9	30	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	5	9	12	31	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	7	7	12	31	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	5	7	15	32	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	7	7	9	9	32	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	9	9	9	32	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	5	5	18	33	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	7	9	12	33	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	7	7	7	12	33	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	5	9	15	34	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	5	12	12	34	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	7	7	15	34	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	7	9	9	9	34	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	5	7	18	35	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	9	9	12	35	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	7	7	9	12	35	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	7	9	15	36	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	7	12	12	36	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	7	7	7	15	36	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	9	9	9	9	36	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	5	9	18	37	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	5	12	15	37	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	7	7	18	37	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	7	9	9	12	37	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	9	9	15	38	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	7	7	9	15	38	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	7	7	12	12	38	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	5	5	24	39	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	7	9	18	39	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	5	7	12	15	39	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	9	9	9	12	39	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317
	7	7	7	18	39	14,400	4.22	24,000	7.03	29,000	8.50	827	1,458	2,317

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

COMBINATION TABLE

MU4R25

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	5,000	1.47	5,500	1.61	6,325	1.85	610	610	714
	7				7	5,500	1.61	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
2 UNIT	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
	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	32,000	9.38	1,112	1,960	2,888
	9	15			24	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
	12	12			24	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
	7	18			25	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
	9	18			27	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
	12	15			27	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
	5	24			29	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
	12	18			30	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
	15	15			30	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
	7	24			31	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
	9	24			33	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
	15	18			33	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
	18	18			36	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
	12	24			36	17,280	5.06	28,800	8.44	32,000	9.38	1,162	2,045	2,888
3 UNIT	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	9	9		23	16,560	4.85	27,600	8.09	32,000	9.38	1,046	1,842	2,633
	7	7	9		23	16,560	4.85	27,600	8.09	32,000	9.38	1,046	1,842	2,633
	5	7	12		24	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	5	15		25	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	7	9	9		25	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	9	12		26	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	7	7	12		26	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	7	15		27	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	9	9	9		27	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	7	9	12		28	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	5	18		28	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	9	15		29	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	12	12		29	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	7	7	15		29	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	7	18		30	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	9	9	12		30	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	7	9	15		31	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	7	12	12		31	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	12	15		32	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	9	18		32	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	7	7	18		32	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	9	9	15		33	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	9	12	12		33	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	7	9	18		34	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	7	12	15		34	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	5	24		34	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	12	18		35	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	15	15		35	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	7	24		36	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	9	12	15		36	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	12	12	12		36	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	9	9	18		36	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	7	12	18		37	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	7	15	15		37	17,280	5.06	28,800	8.44	31,680	9.38	1,093	1,922	2,633
	5	9	24		38	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	5	15	18		38	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	7	7	24		38	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	9	12	18		39	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	9	15	15		39	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633
	12	12	15		39	17,280	5.06	28,800	8.44	32,000	9.38	1,093	1,922	2,633

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
4 UNIT	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	32,000	9.38	1,038	1,826	2,517
	5	5	7	7	24	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	7	9	26	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	7	7	7	26	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	5	12	27	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	9	9	28	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	7	7	9	28	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	7	7	7	7	28	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	7	12	29	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	5	15	30	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	7	9	9	30	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	7	7	7	9	30	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	9	12	31	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	7	7	12	31	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	7	15	32	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	7	7	9	9	32	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	9	9	9	32	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	5	18	33	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	7	9	12	33	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	7	7	7	12	33	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	9	15	34	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	12	12	34	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	7	7	15	34	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	7	9	9	9	34	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	7	18	35	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	9	9	12	35	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	7	7	9	12	35	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	7	9	15	36	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	7	12	12	36	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	7	7	7	15	36	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	9	9	9	9	36	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	9	18	37	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	12	15	37	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	7	7	18	37	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	7	9	9	12	37	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	9	9	15	38	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	7	7	9	15	38	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	7	7	12	12	38	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	5	5	24	39	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	7	9	18	39	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	5	7	12	15	39	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	9	9	9	12	39	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517
	7	7	7	18	39	17,280	5.06	28,800	8.44	32,000	9.38	1,038	1,826	2,517

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

R32 MULTI SPLIT

COMBINATION TABLE

MU4R27

Cooling														
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
2 UNIT	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
	7	7			14	8,400	2.46	14,000	4.10	16,800	4.92	533	903	1,228
	7	9			16	9,600	2.81	16,000	4.69	19,200	5.63	601	1,047	1,423
	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
	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
	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
3 UNIT	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
	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
	5	9	15		29	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	12	12		29	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	7	15		29	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	7	18		30	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	9	9	12		30	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	9	15		31	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	12	12		31	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	12	15		32	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	9	18		32	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	7	18		32	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	9	9	15		33	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	9	12	12		33	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	9	18		34	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	12	15		34	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	5	24		34	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	12	18		35	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	15	15		35	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	7	24		36	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	9	12	15		36	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	12	12	12		36	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	9	9	18		36	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	12	18		37	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	15	15		37	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	9	24		38	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	15	18		38	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	7	24		38	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	9	12	18		39	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	9	15	15		39	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	12	12	15		39	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	9	24		40	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	7	15	18		40	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	12	24		41	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784
	5	18	18		41	16,200	4.75	27,000	7.91	31,050	9.10	984	1,890	2,784

Cooling														
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
4 UNIT	5	5	5	5	20	12,000	3.52	20,000	5.86	24,000	7.03	680	1,202	1,633
	5	5	5	7	22	13,200	3.87	22,000	6.45	26,400	7.74	764	1,317	1,923
	5	5	5	9	24	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,215
	5	5	7	7	24	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,215
	5	5	7	9	26	15,600	4.57	26,000	7.62	31,200	9.14	913	1,679	2,520
	5	7	7	7	26	15,600	4.57	26,000	7.62	31,200	9.14	913	1,679	2,520
	5	5	5	12	27	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	9	9	28	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	7	7	9	28	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	7	7	7	28	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	7	12	29	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	5	15	30	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	7	9	9	30	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	7	7	9	30	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	9	12	31	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	7	7	12	31	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	7	15	32	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	7	9	9	32	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	9	9	9	32	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	5	18	33	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	7	9	12	33	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	7	7	12	33	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	9	15	34	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	12	12	34	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	7	7	15	34	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	9	9	9	34	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	7	18	35	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	9	9	12	35	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	7	9	12	35	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	7	9	15	36	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	7	12	12	36	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	7	7	15	36	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	9	9	9	9	36	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	9	18	37	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	7	12	12	37	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	12	15	37	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	7	7	18	37	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	9	9	12	37	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	9	9	15	38	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	7	9	15	38	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	7	12	12	38	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	5	24	39	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	7	9	18	39	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	7	12	15	39	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	9	9	9	12	39	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	7	7	18	39	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	9	9	15	40	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	9	12	12	40	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	5	7	24	41	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	9	12	15	41	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	5	12	12	12	41	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	7	12	15	41	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706
	7	7	9	18	41	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,706

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R32 MULTI SPLIT

COMBINATION TABLE

MU4R27

Operation	Combination of Indoor Unit (kBtu/h Class)					Heating								
						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
2 UNIT	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
	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
	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
	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
3 UNIT	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	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
	7	9	12		28	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
	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	10.18	1,188	2,177	2,998
	7	7	15		29	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	7	18		30	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	9	9	12		30	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	7	9	15		31	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	7	12	12		31	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	12	15		32	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	9	18		32	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	7	7	18		32	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	9	9	15		33	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	9	12	12		33	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	7	9	18		34	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	7	12	15		34	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	5	24		34	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	12	18		35	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	15	15		35	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	7	24		36	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	9	12	15		36	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	12	12	12		36	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	9	9	18		36	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	7	12	18		37	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	7	15	15		37	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	9	24		38	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	15	18		38	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	7	7	24		38	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	9	12	18		39	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	9	15	15		39	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	12	12	15		39	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	7	9	24		40	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	7	15	18		40	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	12	24		41	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998
	5	18	18		41	18,600	5.45	31,000	9.09	34,720	10.18	1,188	2,177	2,998

Operation	Combination of Indoor Unit (kBtu/h Class)					Heating								
						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
4 UNIT	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	18,000	5.28	30,000	8.79	36,000	10.55	1,083	1,960	3,125
	5	7	7	7	26	18,000	5.28	30,000	8.79	36,000	10.55	1,083	1,960	3,125
	5	5	5	12	27	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	9	9	28	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	7	7	9	28	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	7	7	7	28	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	7	12	29	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	5	15	30	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	7	9	9	30	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	7	7	9	30	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	9	12	31	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	7	7	12	31	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	7	15	32	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	7	9	9	32	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	9	9	9	32	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	5	18	33	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	7	9	12	33	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	7	7	12	33	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	9	15	34	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	12	12	34	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	7	7	15	34	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	9	9	9	34	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	7	18	35	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	9	9	12	35	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	7	9	12	35	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	7	9	15	36	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	7	12	12	36	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	7	7	15	36	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	9	9	9	9	36	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	9	18	37	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	12	15	37	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	7	7	18	37	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	9	9	12	37	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	9	9	15	38	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	7	9	15	38	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	7	12	12	38	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	5	24	39	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	7	9	18	39	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	7	12	15	39	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	9	9	9	12	39	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	7	7	18	39	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	9	9	15	40	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	9	12	12	40	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	5	7	24	41	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	9	12	15	41	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	5	12	12	12	41	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	7	12	15	41	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125
	7	7	9	18	41	18,600	5.45	31,000	9.09	36,000	10.55	1,128	2,068	3,125

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

COMBINATION TABLE

MU5R30

Cooling															
Operation	Combination of Indoor Unit (kBtu/h Class)						Total Capacity						Input(W)		
							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
1 UNIT	5					5	4,500	1.32	5,000	1.47	6,000	1.76	416	418	629
	7					7	4,800	1.41	7,000	2.05	8,400	2.46	416	494	681
	9					9	5,400	1.58	9,000	2.64	10,800	3.17	416	617	884
	12					12	7,200	2.11	12,000	3.52	14,400	4.22	494	846	1,184
	15					15	8,520	2.50	14,200	4.16	17,040	4.99	592	1,029	1,432
	18					18	10,800	3.17	18,000	5.28	21,600	6.33	769	1,328	1,852
	24					24	14,400	4.22	24,000	7.03	25,500	7.47	1,029	1,815	2,604
2 UNIT	5	5				10	6,000	1.76	10,000	2.93	12,000	3.52	378	623	876
	5	7				12	7,200	2.11	12,000	3.52	14,400	4.22	444	761	1,066
	5	9				14	8,400	2.46	14,000	4.10	16,800	4.92	533	903	1,261
	7	7				14	8,400	2.46	14,000	4.10	16,800	4.92	533	903	1,261
	7	9				16	9,600	2.81	16,000	4.69	19,200	5.63	601	1,047	1,461
	5	12				17	10,200	2.99	17,000	4.98	20,400	5.98	646	1,121	1,578
	9	9				18	10,800	3.17	18,000	5.28	21,600	6.33	692	1,195	1,667
	7	12				19	11,400	3.34	19,000	5.57	22,800	6.68	715	1,270	1,787
	5	15				20	12,000	3.52	20,000	5.86	24,000	7.03	761	1,347	1,878
	9	12				21	12,600	3.69	21,000	6.15	25,200	7.39	808	1,423	2,066
	7	15				22	13,200	3.87	22,000	6.45	26,400	7.74	855	1,475	2,211
	5	18				23	13,800	4.04	23,000	6.74	27,600	8.09	879	1,554	2,414
	9	15				24	14,400	4.22	24,000	7.03	28,800	8.44	927	1,633	2,572
	12	12				24	14,400	4.22	24,000	7.03	28,800	8.44	927	1,633	2,572
	7	18				25	15,000	4.40	25,000	7.33	30,000	8.79	975	1,755	2,794
	9	18				27	16,200	4.75	27,000	7.91	32,400	9.50	1,047	2,011	3,213
	12	15				27	16,200	4.75	27,000	7.91	32,400	9.50	1,047	2,011	3,213
	5	24				29	17,400	5.10	29,000	8.50	33,000	9.67	1,145	2,284	3,341
	12	18				30	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341
	15	15				30	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341
	7	24				31	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341
	9	24				33	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341
	15	18				33	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341
	18	18				36	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341
	12	24				36	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341
	15	24				39	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341
	18	24				42	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341
	24	24				48	18,000	5.28	30,000	8.79	33,000	9.67	1,195	2,429	3,341
3 UNIT	5	5	5			15	9,000	2.64	15,000	4.40	18,000	5.28	522	916	1,292
	5	5	7			17	10,200	2.99	17,000	4.98	20,400	5.98	607	1,054	1,483
	5	5	9			19	11,400	3.34	19,000	5.57	22,800	6.68	672	1,194	1,680
	5	7	7			19	11,400	3.34	19,000	5.57	22,800	6.68	672	1,194	1,680
	5	7	9			21	12,600	3.69	21,000	6.15	25,200	7.39	760	1,338	1,942
	7	7	7			21	12,600	3.69	21,000	6.15	25,200	7.39	760	1,338	1,942
	5	5	12			22	13,200	3.87	22,000	6.45	26,400	7.74	804	1,387	2,079
	5	9	9			23	13,800	4.04	23,000	6.74	27,600	8.09	826	1,461	2,278
	7	7	9			23	13,800	4.04	23,000	6.74	27,600	8.09	826	1,461	2,278
	5	7	12			24	14,400	4.22	24,000	7.03	28,800	8.44	871	1,535	2,442
	5	5	15			25	15,000	4.40	25,000	7.33	30,000	8.79	916	1,650	2,674
	7	9	9			25	15,000	4.40	25,000	7.33	30,000	8.79	916	1,650	2,674
	5	9	12			26	15,600	4.57	26,000	7.62	31,200	9.14	962	1,767	2,859
	7	7	12			26	15,600	4.57	26,000	7.62	31,200	9.14	962	1,767	2,859
	5	7	15			27	16,200	4.75	27,000	7.91	32,400	9.50	984	1,890	3,120
	9	9	9			27	16,200	4.75	27,000	7.91	32,400	9.50	984	1,890	3,120
	7	9	12			28	16,800	4.92	28,000	8.21	33,600	9.85	1,030	2,028	3,327
	5	5	18			28	16,800	4.92	28,000	8.21	33,600	9.85	1,030	2,028	3,327
	5	9	15			29	17,400	5.10	29,000	8.50	33,600	9.85	1,077	2,173	3,327
	5	12	12			29	17,400	5.10	29,000	8.50	33,600	9.85	1,077	2,173	3,327
	7	7	15			29	17,400	5.10	29,000	8.50	33,600	9.85	1,077	2,173	3,327
	5	7	18			30	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	9	9	12			30	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	7	9	15			31	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	7	12	12			31	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	5	12	15			32	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	5	9	18			32	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	7	7	18			32	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	9	9	15			33	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	9	12	12			33	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	7	9	18			34	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	7	12	15			34	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	5	5	24			34	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	5	12	18			35	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	5	15	15			35	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	5	7	24			36	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	9	12	15			36	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	12	12	12			36	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	9	9	18			36	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	7	12	18			37	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	7	15	15			37	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	5	9	24			38	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	5	15	18			38	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	7	7	24			38	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	9	12	18			39	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	9	15	15			39	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	12	12	15			39	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	7	9	24			40	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	7	15	18			40	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	5	12	24			41	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	5	18	18			41	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	12	12	18			42	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	9	9	24			42	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	9	15	18			42	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	12	15	15			42	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327

Cooling															
Operation	Combination of Indoor Unit (kBtu/h Class)						Total Capacity						Input(W)		
							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	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	7	12	24			43	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	5	15	24			44	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	9	18	18			45	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	9	12	24			45	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	12	15	18			45	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	15	15	15			45	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	7	15	24			46	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	5	18	24			47	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	9	15	24			48	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	12	18	18			48	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	12	12	24			48	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
	15	15	18			48	18,000	5.28	30,000	8.79	33,600	9.85	1,123	2,326	3,327
4 UNIT	5	5	5	5		20	12,000	3.52	20,000	5.86	24,000	7.03	680	1,202	1,677
	5	5	5	7		22	13,200	3.87	22,000	6.45	26,400	7.74	764	1,317	1,975
	5	5	5	9		24	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,274
	5	5	7	7		24	14,400	4.22	24,000	7.03	28,800	8.44	827	1,458	2,274
	5	5	7	9		26	15,600	4.57	26,000	7.62	31,200	9.14	913	1,679	2,588
	5	7	7	7		26	15,600	4.57	26,000	7.62	31,200	9.14	913	1,679	2,588
	5	5	5	12		27	16,200	4.75	27,000	7.91	32,400	9.50	935	1,795	2,778
	5	5	9	9		28	16,800	4.92	28,000	8.21	33,600	9.85	979	1,903	2,927
	5	7	7	9		28	16,800	4.92	28,000	8.21	33,600	9.85	979	1,903	2,927
	7	7	7	7		28	16,800	4.92	28,000	8.21	33,600	9.85	979	1,903	2,927
	5	5	7	12		29	17,400	5.10	29,000	8.50	34,800	10.20	1,023	2,015	3,133
	5	5	5	15		30	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	7	9	9		30	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	7	9		30	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	5	9	12		31	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	7	7	12		31	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	5	7	15		32	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	9	9		32	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	9	9	9		32	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	5	5	18		33	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	7	9	12		33	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	7	12		33	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	5	9	15		34	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	5	12	12		34	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	7	7	15		34	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	9	9	9		34	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	5	7	18		35	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	9	9	12		35	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	9	12		35	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	7	9	15		36	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	7	12	12		36	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	7	15		36	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	9	9	9	9		36	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	5	9	18		37	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	5	12	15		37	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	7	7	18		37	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	9	9	12		37	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	9	9	15		38	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	9	15		38	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	12	12		38	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	5	5	24		39	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	7	9	18		39	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	7	12	15		39	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	9	9	9	12		39	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	7	18		39	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	5	12	18		40	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	9	9	15		40	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	9	12	12		40	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	5	7	24		41	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	9	12	15		41	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	12	12	12		41	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	12	15		41	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	9	18		41	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	7	15	15		42	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	9	9	9	15		42	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	9	9	12	12		42	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	9	12	15		43	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	12	12	12		43	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	9	9	18		43	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	9	15	15		44	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	12	18		44	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	15	15		44	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	7	18	15		45	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	9	9	12	15		45	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	9	12	12	12		45	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	9	9	9	18		45	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	7	24		45	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	9	12	18		46	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	9	15	15		46	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	12	12	15		46	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	12	12	18		47	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	9	24		47	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	7	7	15	18		47	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	9	15	18		47	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	5	12	15	15		47	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	9	9	15	15		48	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	12	12	12	12		48	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349
	9	9	12	18		48	18,000	5.28	30,000	8.79	36,000	10.55	1,067	2,131	3,349

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

R32 MULTI SPLIT

COMBINATION TABLE

MU5R30

Cooling

Operation	Combination of Indoor Unit (kBtu/h Class)						Total Capacity						Input(W)		
							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	7.91	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	5	7	7	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
	7	7	7	7	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	7	7	9	9	39	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	9	9	9	39	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	7	18	40	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	9	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
	7	7	7	7	12	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
	7	7	9	9	9	41	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	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	5	12	15	42	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	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	9	12	42	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	7	7	9	12	42	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	9	9	15	43	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	9	15	43	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	12	12	43	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	7	7	7	15	43	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	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	7	12	15	44	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	5	24	44	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	7	18	44	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	9	9	9	12	44	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	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	5	12	18	45	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	15	15	45	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	9	9	15	45	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	9	12	12	45	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	7	7	9	15	45	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	7	7	12	12	45	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	9	9	9	9	9	45	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	7	24	46	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	9	9	18	46	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	9	12	15	46	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	12	12	12	46	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	9	18	46	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	7	12	15	46	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	7	7	7	18	46	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	9	9	9	12	46	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	7	15	15	47	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	9	9	9	15	47	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	9	9	12	12	47	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	7	9	9	15	47	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	7	9	12	12	47	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	9	24	48	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	5	18	15	48	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	5	7	7	24	48	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	9	9	18	48	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	9	12	15	48	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	5	7	12	12	12	48	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	7	7	12	15	48	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	9	9	9	9	12	48	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260
	7	7	7	9	18	48	18,000	5.28	30,000	8.79	36,000	10.55	1,037	2,000	3,260

Heating

Operation	Combination of Indoor Unit (kBtu/h Class)						Total Capacity						Input(W)		
							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
1 UNIT	5					5	5,000	1.47	5,500	1.61	6,325	1.85	610	610	714
	7					7	5,500	1.61	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
2 UNIT	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
	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	34,560	10.13	1,162	2,045	3,473
	12	12				24	17,280	5.06	28,800	8.44	34,560	10.13	1,162	2,045	3,473
	7	18				25	18,000	5.28	30,000	8.79	34,560	10.13	1,213	2,194	3,473
	9	18				27	19,440	5.70	32,400	9.50	34,560	10.13	1,315	2,579	3,473
	12	15				27	19,440	5.70	32,400	9.50	34,560	10.13	1,315	2,579	3,473
	5	24				29	20,700	6.07	34,500	10.11	34,560	10.13	1,418	3,020	3,473
	12	18				30	20,700	6.07	34,500	10.11	34,560	10.13	1,418	3,020	3,473
	15	15				30	20,700	6.07	34,500	10.11	34,560	10.13	1,418	3,020	3,473
	7	24				31	20,700	6.07	34,500	10.11	34,560	10.13	1,418	3,020	3,473
	9	24				33	20,700	6.07	34,500	10.11	34,560	10.13	1,418	3,020	3,473
	15	18				33	20,700	6.07	34,500	10.11	34,560	10.13	1,418	3,020	3,473
	18	18				36	20,700	6.07	34,500	10.11	34,560	10.13	1,418	3,020	3,473
	12	24				36	20,700	6.07	34,500	10.11	34,560	10.13	1,418	3,020	3,473
	15	24				39	20,700	6.07	34,500	10.11	34,560	10.13	1,418	3,020	3,473
	18	24				42	20,700	6.07	34,500	10.11	34,560	10.13	1,418	3,020	3,473
	24	24				48	20,700	6.07	34,500	10.11	34,560	10.13	1,418	3,020	3,473
3 UNIT	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	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	36,000	10.55	1,140	2,063	3,192
	7	9	9			25	18,000	5.28	30,000	8.79	36,000	10.55	1,140	2,063	3,192
	5	9	12			26	18,720	5.49	31,200	9.14	37,440	10.97	1,188	2,177	3,393
	7	7	12			26	18,720	5.49	31,200	9.14	37,440	10.97	1,188	2,177	3,393
	5	7	15			27	19,440	5.70	32,400	9.50	38,640	11.32	1,236	2,328	3,602
	9	9	9			27	19,440	5.70	32,400	9.50	38,640	11.32	1,236	2,328	3,602
	7	9	12			28	20,160	5.91	33,600	9.85	38,640	11.32	1,284	2,445	3,602
	5	5	18			28	20,160	5.91	33,600	9.85	38,640	11.32	1,284	2,445	3,602
	5	9	15			29	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	12	12			29	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	7	15			29	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	7	18			30	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	9	9	12			30	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	9	15			31	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	12	12			31	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	12	15			32	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	9	18			32	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	7	18			32	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	9	9	15			33	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	9	12	12			33	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	9	18			34	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	12	15			34	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	5	24			34	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	12	18			35	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	15	15			35	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	7	24			36	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	9	12	15			36	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	12	12	12			36	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	9	9	18			36	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	12	18			37	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	15	15			37	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	9	24			38	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	15	18			38	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	7	24			38	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	9	12	18			39	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	9	15	15			39	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	12	12	15			39	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	9	24			40	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	7	15	18			40	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	12	24			41	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	5	18	18			41	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	12	12	18			42	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	9	9	24			42	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	9	15	18			42	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602
	12	15	15			42	20,700	6.07	34,500	10.11	38,640	11.32	1,333	2,566	3,602

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

COMBINATION TABLE

MU5R30

Heating															
Operation	Combination of Indoor Unit (kBtu/h Class)						Total Capacity						Input(W)		
							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
4 UNIT	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
	7	7	7	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	3,524
	7	9	9	12		37	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	9	9	15		38	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	9	15		38	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	12	12		38	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	5	5	24		39	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	7	9	18		39	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	7	12	15		39	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	9	9	9	12		39	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	7	18		39	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	5	12	18		40	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	9	9	15		40	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	9	12	12		40	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	5	7	24		41	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	9	12	15		41	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	12	12	12		41	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	12	15		41	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	9	18		41	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	7	15	15		42	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	9	9	9	15		42	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	9	9	12	12		42	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	9	12	15		43	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	12	12	12		43	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	9	9	18		43	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	9	15	15		44	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	12	18		44	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	15	15		44	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	7	18	15		45	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	9	9	12	15		45	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	9	12	12	12		45	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	9	9	9	18		45	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	7	24		45	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	9	12	18		46	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	9	15	15		46	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	12	12	15		46	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	12	12	18		47	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	9	24		47	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	7	7	15	18		47	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	9	15	18		47	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	5	12	15	15		47	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	9	9	15	15		48	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	12	12	12	12		48	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524
	9	9	12	18		48	20,700	6.07	34,500	10.11	38,640	11.32	1,267	2,487	3,524

Heating															
Operation	Combination of Indoor Unit (kBtu/h Class)						Total Capacity						Input(W)		
							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	18,000	5.28	30,000	8.79	36,000	10.55	1,025	1,824	2,700
	5	5	5	5	7	27	19,440	5.70	32,400	9.50	38,880	11.40	1,111	1,997	3,096
	5	5	5	5	9	29	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	7	7	29	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	7	9	31	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	7	7	7	31	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	5	12	32	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	9	9	33	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	7	7	9	33	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	7	7	7	33	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	7	12	34	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	5	15	35	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	7	9	9	35	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	7	7	9	35	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	7	7	7	35	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	9	12	36	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	7	7	12	36	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	7	15	37	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	9	9	9	37	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	7	9	9	37	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	7	7	9	37	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	5	18	38	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	7	7	12	38	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	9	15	39	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	12	12	39	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	7	7	15	39	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	7	9	9	39	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	9	9	9	39	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	7	18	40	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	9	9	12	40	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	7	9	12	40	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	7	7	12	40	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	7	9	15	41	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	7	7	15	41	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	9	9	9	9	41	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	9	9	9	41	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	9	18	42	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	12	15	42	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	7	7	18	42	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	9	9	12	42	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	7	9	12	42	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	9	9	15	43	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	7	9	15	43	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	7	12	12	43	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	7	7	15	43	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	9	9	9	9	43	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	7	12	15	44	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	5	24	44	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	7	7	18	44	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	9	9	9	12	44	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	9	9	12	44	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	12	18	45	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	15	15	45	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	9	9	15	45	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	9	12	12	45	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	7	9	15	45	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	7	12	12	45	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	9	9	9	9	9	45	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	7	24	46	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	9	9	18	46	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	9	12	15	46	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	12	12	12	46	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	7	9	18	46	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	7	12	15	46	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	7	7	18	46	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	9	9	9	12	46	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	7	15	15	47	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	9	9	9	15	47	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	9	9	12	12	47	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	9	9	15	47	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	9	12	12	47	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	9	24	48	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	5	18	15	48	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	5	7	7	24	48	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	9	9	18	48	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	9	12	15	48	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	5	7	12	12	12	48	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	7	12	15	48	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	9	9	9	9	12	48	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477
	7	7	7	9	18	48	20,700	6.07	34,500	10.11	41,400	12.13	1,198	2,149	3,477

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

R410A
MULTI SPLIT

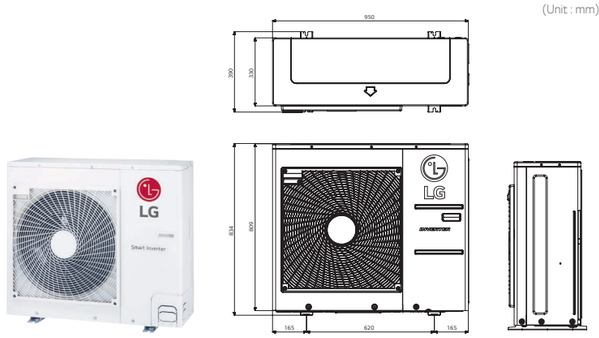
R410A MULTI SPLIT

OUTDOOR UNITS

R410A

MU5M40

(Unit : mm)



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Check ongoing validity of certification
: www.eurovent-certification.com

OUTDOOR				MU5M40.U44
Compressor	Type			R-Scroll
Capacity*	Cooling	Min / Nom / Max	kW	1.8 / 11.2 / 14.7
	Heating	Min / Nom / Max	kW	2.0 / 12.5 / 15.5
Low Temperature Capacity	Heating -7℃	Max	kW	11.0
Power Input*	Cooling	Min / Nom / Max	kW	0.8 / 2.8 / 5.0
	Heating	Min / Nom / Max	kW	0.8 / 2.9 / 5.2
EER				4.0
COP				4.3
SEER				7.1
SCOP				4.0
Pdesign (@-10℃)			kW	8.8
Season Energy Label	Cooling / Heating (A+++ to E Scale)			A++ / A+
Season Energy Consumptuin	Cooling / Heating		kWh	552 / 3,080
Airflow Rate		Nom	m³/min	70
Sound Pressure	Cooling	Nom	dBA	53
	Heating	Nom	dBA	55
Sound Power	Cooling	Max	dBA	67
Dimensions	W x H x D		mm	950 x 834 x 330
Net Weight			kg	72
Refrigerant	Type			R410A
	Charge		kg	3.5
	Additional Charge		g/m	20
	GWP			2087.5
	t-CO_2 eq			9.2
Operation Range (Outdoor)	Cooling	Min / Max	℃ DB	-10 ~ 48
	Heating	Min / Max	℃ WB	-18 ~ 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50
Power Supply Cable			No. x mm²	3C x 4.0
Transmission Cable	ODU-BD		No. x mm²	4C x 0.75
	BD-IDU		No. x mm²	4C x 0.75
Circuit Breaker			A	30
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 :

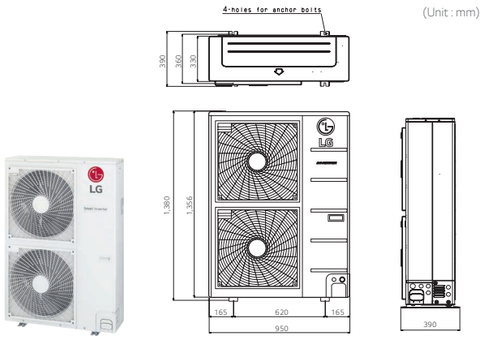
1. Capacities are based on the following conditions:
   Cooling : - Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB - Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB
   Heating : - Indoor Temperature 20°C (68°F) DB / 15°C (59°F) WB - Outdoor Temperature 7°C (44.6°F) DB / 6°C (42.8°F) WB
   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)

R410A MULTI SPLIT

OUTDOOR UNITS

R410A

FM40AH
FM48AH
FM56AH



(Unit : mm)

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

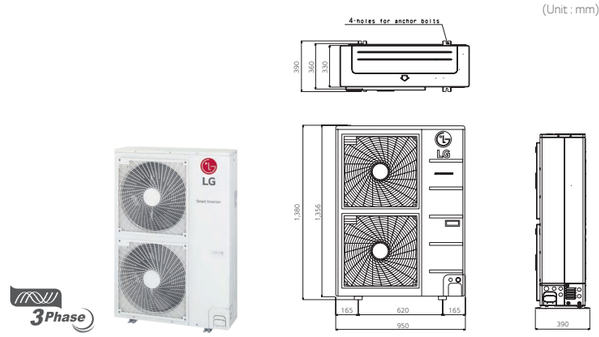
LG participates in the ECP programme for EUROVENT AC program.
Check ongoing validity of certification
: www.eurovent-certification.com

OUTDOOR				FM40AH.U34	FM48AH.U34	FM56AH.U34
Compressor	Type			R-Scroll	R-Scroll	R-Scroll
Capacity*	Cooling	Min / Nom / Max	kW	2.4 / 12.3 / 15.4	2.8 / 14.0 / 17.0	2.8 / 15.5 / 18.5
	Heating	Min / Nom / Max	kW	2.6 / 13.5 / 16.2	3.2 / 16.0 / 17.3	3.2 / 17.4 / 18.8
Low Temperature Capacity	Heating -7℃	Max	kW	12.0	13.6	14.8
Power Input*	Cooling	Min / Nom / Max	kW	1.0 / 2.6 / 4.4	1.0 / 3.3 / 5.4	1.0 / 4.0 / 5.9
	Heating	Min / Nom / Max	kW	1.5 / 2.9 / 4.8	1.5 / 3.8 / 5.8	1.5 / 4.4 / 6.5
EER				4.8	4.2	3.9
COP				4.7	4.2	4.0
SEER				7.3	7.1	6.7
SCOP				4.2	4.2	4.2
Pdesign (@-10℃)			kW	11.2	11.2	11.2
Season Energy Label	Cooling / Heating (A+++ to E Scale)			A++ / A+	A++ / A+	A++ / A+
Season Energy Consumptuin	Cooling / Heating		kWh	590 / 3,733	690 / 3,733	810 / 3,733
Airflow Rate		Nom	m³/min	120	120	120
Sound Pressure	Cooling	Nom	dBA	53	53	53
	Heating	Nom	dBA	55	55	55
Sound Power	Cooling	Max	dBA	66	67	68
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	88	88	88
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	4.2	4.2	4.2
	Additional Charge		g/m	20	20	20
	GWP			2087.5	2087.5	2087.5
	t-CO_2 eq			9.2	9.2	9.2
Operation Range (Outdoor)	Cooling	Min / Max	℃ DB	-10 ~ 48	-10 ~ 48	-10 ~ 48
	Heating	Min / Max	℃ 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 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
Piping Length Total			m	125	135	145
Piping Length per Branch		Max	m	15	15	15
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30
	IDU - IDU	Max	m	15	15	15
Piping Connection	Liquid		mm (inch) x No.	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch) x No.	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)

※ 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℃ (80.6℉) DB / 19℃ (66.2℉) WB - Outdoor Temperature 35℃ (95℉) DB / 24℃ (75.2℉) WB
Heating : - Indoor Temperature 20℃ (68℉) DB / 15℃ (59℉) WB - Outdoor Temperature 7℃ (44.6℉) DB / 6℃ (42.8℉) 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)

FM41AH
FM49AH
FM57AH



(Unit : mm)

3Phase

OUTDOOR				FM41AH.U34	FM49AH.U34	FM57AH.U34
Compressor	Type			R-Scroll	R-Scroll	R-Scroll
Capacity*	Cooling	Min / Nom / Max	kW	2.8 / 12.3 / 14.7	2.8 / 14.0 / 17.0	2.8 / 15.5 / 18.5
	Heating	Min / Nom / Max	kW	3.2 / 13.5 / 15.2	3.2 / 16.0 / 17.3	3.2 / 17.4 / 18.8
Low Temperature Capacity	Heating -7℃	Max	kW	12.0	13.6	14.8
Power Input*	Cooling	Min / Nom / Max	kW	1.0 / 2.6 / 4.4	1.0 / 3.3 / 5.4	1.0 / 4.0 / 5.9
	Heating	Min / Nom / Max	kW	1.5 / 2.9 / 4.8	1.5 / 3.8 / 5.8	1.5 / 4.4 / 6.5
EER				4.8	4.2	3.9
COP				4.7	4.2	4.0
SEER				7.3	7.1	6.7
SCOP				4.2	4.2	4.2
Pdesign (@-10℃)			kW	11.2	11.2	11.2
Season Energy Label	Cooling / Heating (A+++ to E Scale)			A++ / A+	A++ / A+	A++ / A+
Season Energy Consumptuin	Cooling / Heating		kWh	590 / 3,733	690 / 3,733	810 / 3,733
Airflow Rate		Nom	m³/min	120	120	120
Sound Pressure	Cooling	Nom	dBA	53	53	53
	Heating	Nom	dBA	55	55	55
Sound Power	Cooling	Max	dBA	66	67	68
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	88	88	88
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	4.2	4.2	4.2
	Additional Charge		g/m	20	20	20
	GWP			2087.5	2087.5	2087.5
	t-CO_2 eq			9.2	9.2	9.2
Operation Range (Outdoor)	Cooling	Min / Max	℃ DB	-10 ~ 48	-10 ~ 48	-10 ~ 48
	Heating	Min / Max	℃ WB	-18 ~ 18	-18 ~ 18	-18 ~ 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
Piping Length Total			m	125	135	145
Piping Length per Branch		Max	m	15	15	15
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30
	IDU - IDU	Max	m	15	15	15
Piping Connection	Liquid		mm (inch) x No.	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch) x No.	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)

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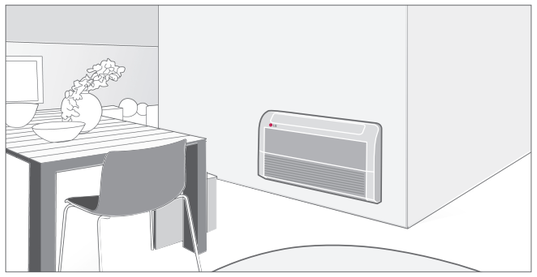
Note : 1. Capacities are based on the following conditions:
Cooling : - Indoor Temperature 27℃ (80.6℉) DB / 19℃ (66.2℉) WB - Outdoor Temperature 35℃ (95℉) DB / 24℃ (75.2℉) WB
Heating : - Indoor Temperature 20℃ (68℉) DB / 15℃ (59℉) WB - Outdoor Temperature 7℃ (44.6℉) DB / 6℃ (42.8℉) WB
Piping Length - 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)

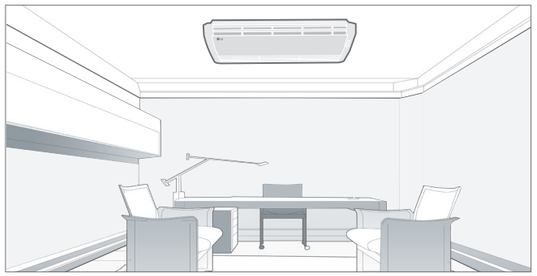
R410A MULTI SPLIT

CEILING & FLOOR CONVERTIBLE

Flexible Installation

The ceiling and floor models can be installed either on the ceiling or on the floor.
This saves space when installed in the shops or offices.



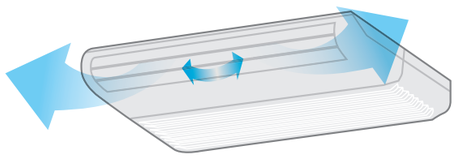


* Ceiling & Floor : CV09 NE2 / CV12 NE2

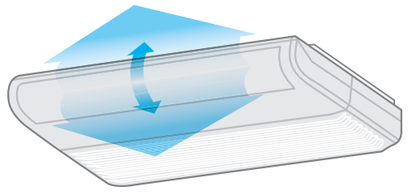
Airflow Direction Control

Vertical airflow direction can be adjusted using remote controller, and horizontal airflow direction can be adjusted manually.

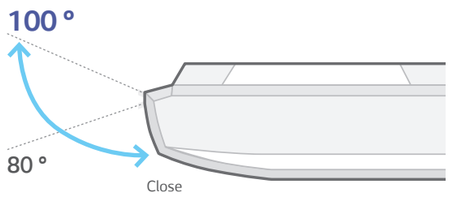
Horizontal



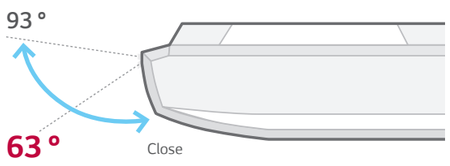
Vertical



Cooling



Heating



CAPACITY (KW)		2.6	3.5	5.3	7.0
Ceiling & Floor Convertible unit		CV09.NE2	CV12.NE2	-	-

Ceiling & Floor Convertible unit

INDOOR				CV09.NE2	CV12.NE2
Capacity	Cooling / Heating	Nom	kW	2.6 / 2.9	3.5 / 3.9
Power Input		Nom	W	30	40
Running Current		Nom	A	0.4	0.4
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate		H / M / L	m³/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.6
Sound Pressure	Cooling	H / M / L	dBA	38 / 35 / 32	40 / 36 / 31
Sound Power	Cooling	Max	dBA	52	56
Dehumidification Rate			l/h	1.2	1.2
Dimensions	Body	W x H x D	mm	900 × 490 × 200	900 × 490 × 200
Net Weight	Body		kg	13.7	13.7
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)

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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)

* CV09, CV12, CV18, CV24 are compatible between SCAC and MULTI.

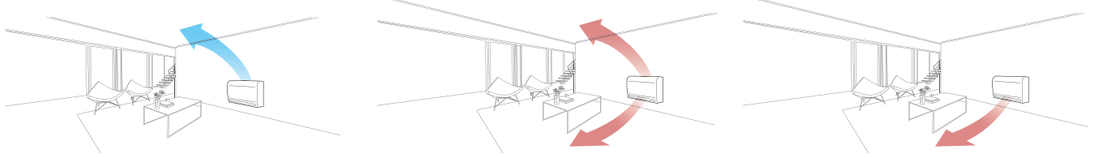
R410A MULTI SPLIT

CONSOLE

Optimised Air Flow for Cooling & Heating

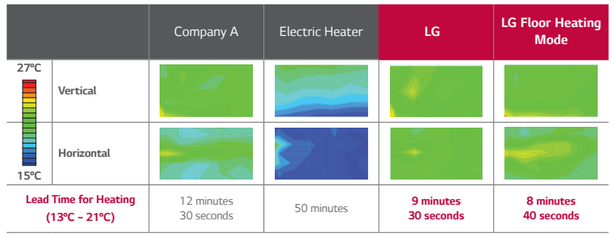
During the cooling operation, the vane adjusts upwards to direct the air flow towards the ceiling.
When heating, the vane directs the warm air downwards to balance the room temperature especially for floor.

Cooling	Heating (Normal)	Heating (Floor Heating Mode)



Quick Floor Heating

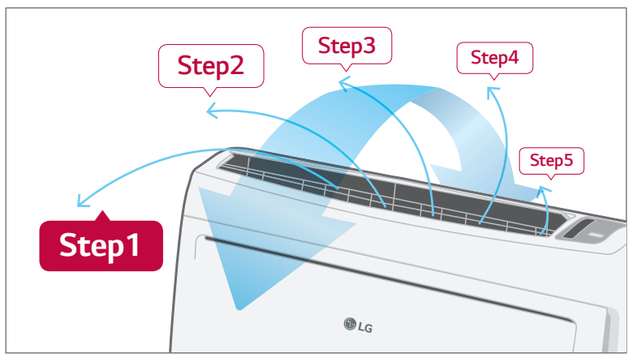
Console air conditioners offer a fast and powerful performance. Using the floor heating mode, console air conditioners provide faster floor heating nd help to reach the desired temperature quickly.



(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.



CAPACITY (KW)		2.6	3.5	5.3
Console		CQ09.NA0	CQ12.NA0	CQ18.NA0

Console

INDOOR				CQ09.NA0
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	dBA	38 / 32 / 27
Sound Power	Cooling	Max	dBA	53
Dehumidification Rate			l/h	1.2
Dimensions	Body	W x H x D	mm	700 × 600 × 210
Net Weight	Body		kg	14.0
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)
	Gas		mm (inch)	Ø9.52 (3/8)

* CQ09, CQ12, CQ18 are compatible between SCAC and MULTI.

INDOOR				CQ12.NA0	CQ18.NA0
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	dBA	39 / 32 / 27	44 / 39 / 35
Sound Power	Cooling	Max	dBA	56	60
Dehumidification Rate			l/h	1.4	2.3
Dimensions	Body	W x H x D	mm	700 × 600 × 210	700 × 600 × 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)

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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)

LG Wi-Fi MODEM

Control LG air conditioners via using the internet devices as Android or iOS bases smartphones

PWFMDD200

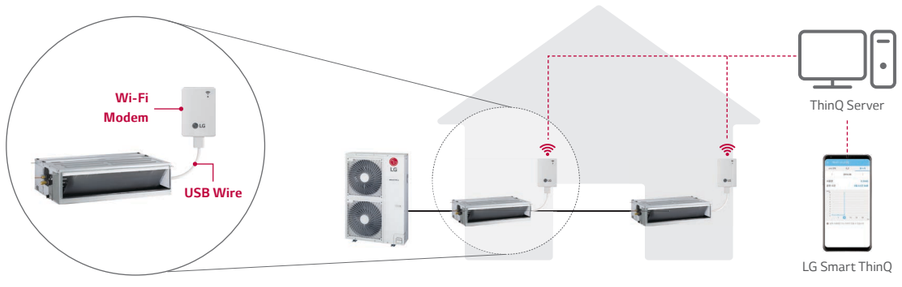
Features

- Access LG air conditioner anytime and from anywhere with Wi-Fi equipped device
- LG's exclusive Home Appliances control app(SmartThinQ) is available
- Simple operation for various functions
  - On/Off
  - Fan Speed
  - Energy Monitoring [1)]
  - Operation Mode
  - Vane Control [2)]
  - Filter Management
  - Current/Set Temperature
  - Reservation (Sleep, Weekly On/Off)
  - Error check

MODEL NAME	PWFMDD200
Size (W x H x D, mm)	48 x 68 x 14
Interfaceable Products	Multi Indoor unit [3)]
Connection Type	Indoor unit 1:1
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b/g/n
Mobile Application	LG Smart ThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or higher)
Optional Extension Cable	PWYREW000 (10m extension)

* Functionality may be different according to each IDU model
* User interface of application shall be revised for its design and contents improvement
* Application is optimized for smartphone use, so it may not be well functioning with tablet devices
1) LG Centralized controller and PDI installation is required for this function
2) Vane Control may not be possible according to the type of Indoor unit
3) For the compatibility with Indoor unit, please contact regional office

Overview



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

ACCESSORIES

Standard Wired Remote Controller

Standard III

PREMTB100

PREMTB10

Standard II

PREMTB001

PREMTB01

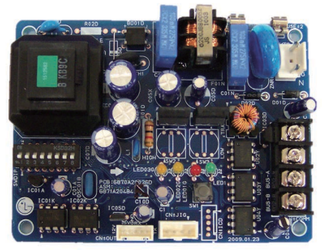
Model Name	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01
Operation Mode	On/Off, Fan Speed Control, Temperature Setting	
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	
Auto Swing / Vane Control	•	•
Reservation	Simple / Sleep / On, Off / Weekly / Holiday	
Time Display	•	•
Electrical Failure Compensation	•	•
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

PQWRHQ0FDB

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

PDRYCB300

PDRYCB500

Refer to each product PDB for applicable models

MODEL	PDRYCB000	PDRYCB400	PDRYCB300	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	•	•	•	•

ACCESSORIES

Distributor Box

PMBD3620, PMBD3630, PMBD3640

Easy installation using the range of Distributor Boxes.

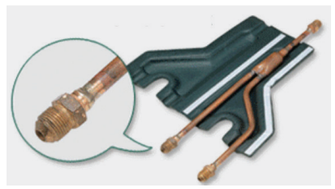
For	2 Indoors	3 Indoors	4 Indoors
Distributor	 PMBD3620	 PMBD3630	 PMBD3640

Various distributors can make much easier installation for any sites

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

No Brazing



Just Flaring

Specification

			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 / 200~240 / 50	1 / 200~240 / 50
Power Consumption		W	10	10	10
Runing Current		A	0.05	0.05	0.05
Dimensions	W x H x D	mm (inch)	302 × 143 × 252 (11.9 × 5.6 × 9.9)	302 × 143 × 252 (11.9 × 5.6 × 9.9)	302 × 143 × 252 (11.9 × 5.6 × 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) × 2EA	Ø6.35 (1/4) × 3EA	Ø6.35 (1/4) × 4EA
	Gas	mm (inch)	Ø9.52 (3/8) × 2EA	Ø9.52 (3/8) × 3EA	Ø9.52 (3/8) × 4EA
Accessories	Hanger (Bracket)	EA	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.

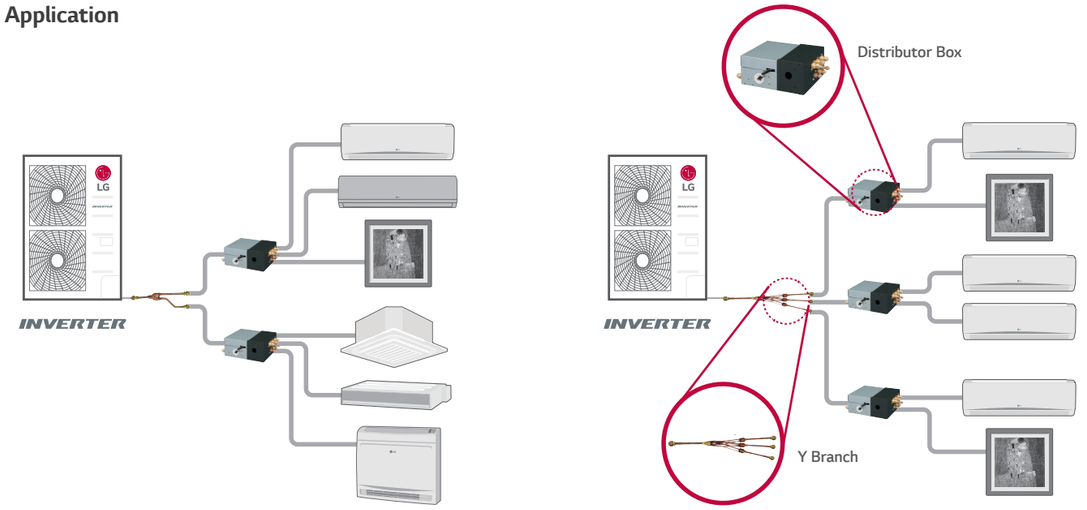
Y Branch and Branch Kit

PMBL5620 (2 units) / PMBL1203F0 (3 units)

Features

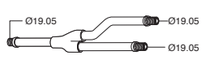
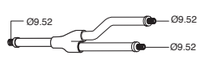
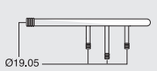
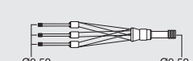
- Y Branch and Branch kit make Multi FDX installation much easier.
- Y Branch and Branch kit for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

Application



Accessory Model Name

(Unit : mm)

MODEL NAME	NO. OF BRANCH DISTRIBUTION UNITS	APPLICABLE MODEL	SPECIFICATION	
			GAS	LIQUID
PMBL5620	2 Units	1Ø, 3Ø		
PMBL1203F0	3 Units	1Ø, 3Ø		

COMMERCIAL

SINGLE SPLIT

LINE-UP

STANDARD INVERTER

STANDARD INVERTER (R32)								STANDARD INVERTER (R410A)				
kBtu/h	Type / kW	Ceiling Mounted Cassette	Ceiling Concealed Duct		Ceiling & Floor / Ceiling Suspended	ODU		Ceiling Concealed Duct (High Static)	Ceiling & Floor / Ceiling Suspended	Console / Wall Mounted / Floor Standing	ODU	
			Mid/High Static	Low Static		1Ø	3Ø				1Ø	3Ø
9	2.5	CT09R.NR0		CL09R.N20		UU09WR.UL0			CV09.NE2	CQ09.NA0	UU09W.UL0	
12	3.5	CT12R.NR0		CL12R.N20		UU12WR.UL0			CV12.NE2	CQ12.NA0	UU12W.UL0	
18	5.0	CT18R.NQ0	CM18R.N10	CL18R.N20	UV18R.N10	UU18WR.U20				CQ18.NA0	UU18W.UE4	
24	7.1	CT24R.NP0	CM24R.N10	CL24R.N30	UV24R.N10	UU24WR.U40						
30	8.0	UT30R.NP0*	UM30R.N10*		UV30R.N10*	UU30WR.U40*				UJ30.NV2	UU30W.U44	
36	10.0	UT36R.NM0	UM36R.N20*		UV36R.N20	UU36WR.U30	UU37WR.U30			UJ36.NV3	UU36W.UO2	UU37W.UO2
42	12.5	UT42R.NM0	UM42R.N20		UV42R.N20	UU42WR.U30	UU43WR.U30					
48	14.0	UT48R.NM0	UM48R.N30		UV48R.N20	UU48WR.U30	UU49WR.U30			UP48.NT2	UU48W.U32	UU49W.U32
60	15.0	UT60R.NM0	UM60R.N30		UV60R.N20	UU60WR.U30	UU61WR.U30					
70	20.0							UB70.N94				UU70W.U34
85	25.0							UB85.N94				UU85W.U74

* Available from April 2019.

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

LINE-UP

COMPACT INVERTER

COMPACT INVERTER (R32)							
kBtu/h	Type / kW	Ceiling Mounted Cassette	Ceiling Concealed Duct		Ceiling & Floor / Ceiling Suspended	ODU	
			Mid / High Static	Low Static		1Ø	3Ø
18	5.0		CM18R.N10			UU18WCR.UL0	
24	7.1		CM24R.N10			UU24WCR.U20	
30	8.0		UM30R.N10			UU30WCR.U20	
36	10.0		UM36R.N20*			UU36WCR.U40*	

SINGLE SPLIT

FEATURE OVERVIEW

Category		Standard inverter (R32)								
kBtu/h		9	12	18	24	30	36	42	48	60
kW		2.5	3.5	5.0	7.1	8.0	10.0	12.5	14.0	15.0
Energy Efficiency	New Type Scroll Compressor						●	●	●	●
	BLDC Comp. & Fan Motor	●	●	●	●	●	●	●	●	●
	Eurovent Certi.	●	●	●	●	●	●	●	●	●
	Variable Voltage Control			●	●	●	●	●	●	●
	Wide Louver Fin	●	●	●	●	●	●	●	●	●
	Optimised Heat Exchanger Path			●	●	●	●	●	●	●
	Power Saving Start up	●	●	●	●	●	●	●	●	●
	Quick Operation Response	●	●	●	●	●	●	●	●	●
	Peak Current Control			●	●	●	●	●	●	●
	Mode Lock	●**	●**	●	●	●	●	●	●	●
	Standby Mode	●	●	●	●	●	●	●	●	●
Durability	Ocean black fin heat exchanger	●	●	●	●	●	●	●	●	●
Fast Cooling & Heating	Forced Cooling Operation			●	●	●	●	●	●	●
Comfort	Night Silent Operation			●	●	●	●	●	●	●
Smart	Outdoor Dry Contact						●	●	●	●
	LG MV	●	●	●	●	●	●	●	●	●
	Weekly Program*	●	●	●	●	●	●	●	●	●
	PI-485 Connection			●	●	●	●	●	●	●
	Wi-Fi Ready***	●	●	●	●	●	●	●	●	●
AHU Solution	Return Air Control			●	●	●	●	●	●	●
	0-10V Supply Air Control			●	●	●	●	●	●	●

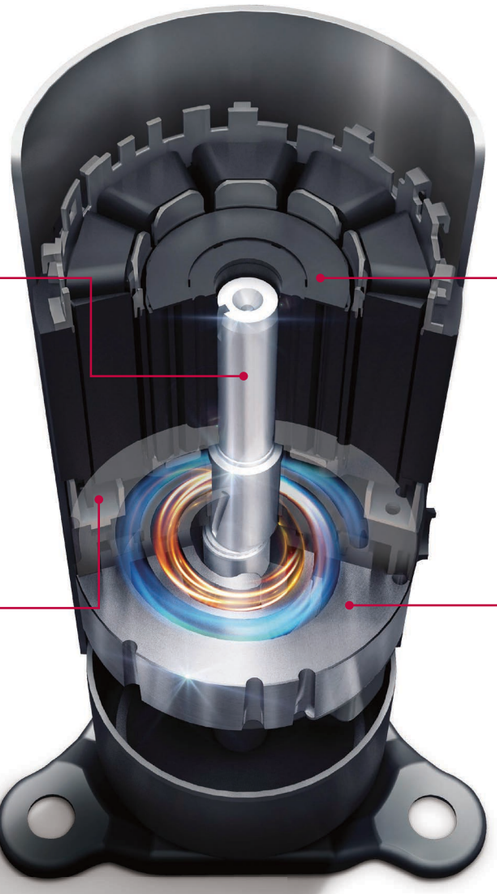
* Weekly program is available with wired remote controller
** With controller PREMTB001 / PREMTBB01 / PREMTB100 / PREMTBB10
*** Available with LG Wi-Fi modem(PWFMDD200) and it is applicable to the indoor unit

Category		COMPACT (R32)				STANDARD INVERTER (R410A)	
kBtu/h		18	24	30	36	70	85
kW		5.0	7.1	8.0	10.0	20.0	25.0
Energy Efficiency	New Type Scroll Compressor						
	BLDC Comp. & Fan Motor	●	●	●	●	●	●
	Eurovent Certi.	●	●	●	●	●	●
	Variable Voltage Control					●	●
	Wide Louver Fin	●	●	●	●	●	●
	Optimised Heat Exchanger Path	●	●	●	●	●	●
	Power Saving Start up	●	●	●	●	●	●
	Quick Operation Response	●	●	●	●	●	●
	Peak Current Control					●	●
	Mode Lock	●	●	●	●	●	●
	Standby Mode	●	●	●	●	●	●
Durability	Ocean black fin heat exchanger	●	●	●	●		
Fast Cooling & Heating	Forced Cooling Operation					●	●
Comfort	Night Silent Operation					●	●
Smart	Outdoor Dry Contact					●	●
	LG MV	●	●	●	●	●	●
	Weekly Program*	●**	●**	●	●	●	●
	PI-485 Connection					●	●
	Wi-Fi Ready	●	●	●	●		
AHU Solution	Return Air Control	●	●	●	●	●	●
	0-10V Supply Air Control					●	●

* Weekly program is available with wired remote controller
** With controller PREMTB001 / PREMTBB01

REVOLUTIONARY SCROLL COMPRESSOR

R1 Compressor



Shaft-through Structure & Support both ends of shaft

- Solid compressor operation assuring higher durability

Extended Operation Range (max 150Hz)

- Higher Heating Performance

Centrifugal oil return & Oil separating guide for oil discharge reduction

- Higher Energy Efficiency (*SEER 20% ⍰)

Bottom Compression & Simple Structure

- Lower Noise & Vibration (**max 4dB(A) ⍰)
- Less Weight (**20% ⍰)
- Superior Reliability

R1 Compressor™

* LG Internal test result, Based on single split 10 kW Cassette
** LG Internal test result, Based on conventional compressor (Rotary type GPT442M)

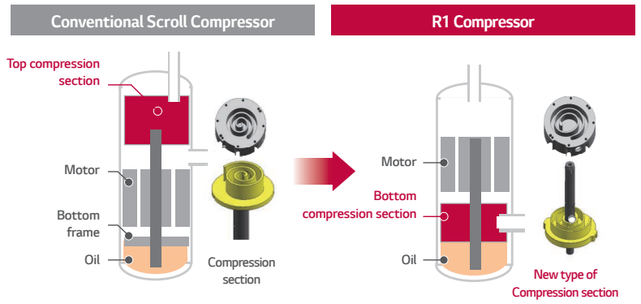
ENERGY EFFICIENCY

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)

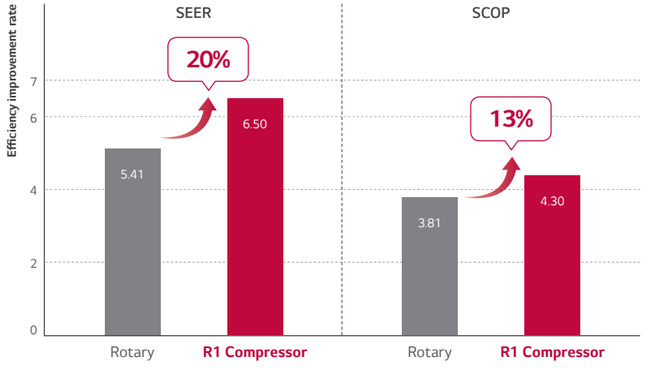
⍰ Applied models : UU36WR, UU37WR,UU42WR, UU43WR, UU48WR, UU49WR, UU60WR, UU61WR



• Seasonal energy efficiency

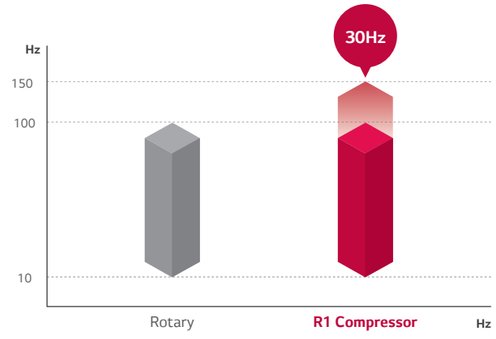
SEER 20%, SCOP 13% improvement (vs. rotary)

* LG Internal test result, Based on single split 10 kW CST



• 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)

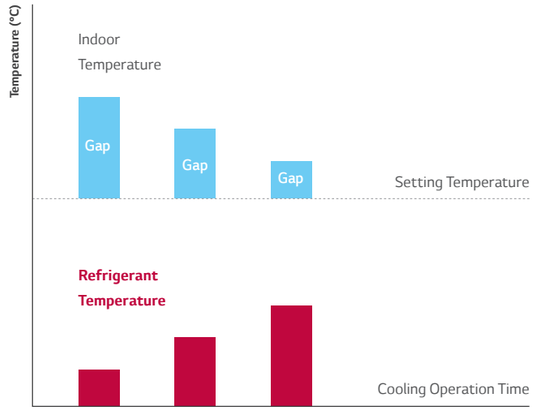


ENERGY EFFICIENCY

Power Saving Start Up

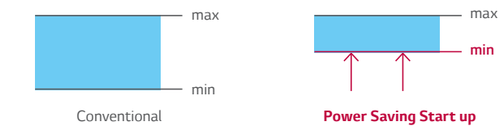
LG commercial air conditioners will automatically alter the temperature of discharge air by controlling their refrigerant temperature based on the difference between the indoor temperature and the target indoor temperature. During cooling operation, evaporating temperature will increase if the temperature difference reduces. This leads to extremely comfortable indoor air whilst minimizing energy consumption.

Comfortable Indoor Air



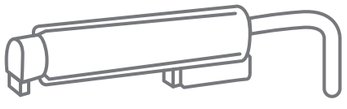
Energy Saving

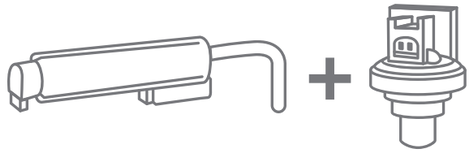
Refrigerant Temperature (Evaporating)



Refrigerant Temperature (Condensing)

Quick Operating Response





Conventional

Step 1 Detect current temperature of the refrigerant, indoor and outdoor temperature

Step 2 **Estimating Pressure**
Gauge target pressure to operate the compressor, based on the corresponding temperature data

This algorithm is more likely to be impacted by temperature change hence consumes more time to calculate proper operation range of compressor to reach target performance point.

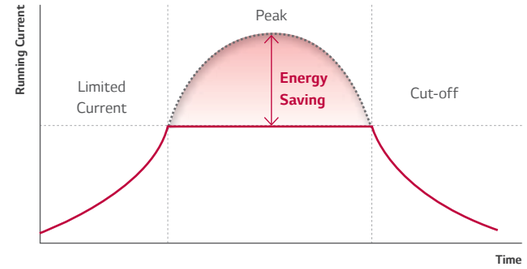
Standard Inverter

Step 1 Detect refrigerant pressure and temperature simultaneously to ensure that the compressor is available for target cooling operation

This ensures to reach the target performance point operating efficiently and reliably.

Peak Current Control

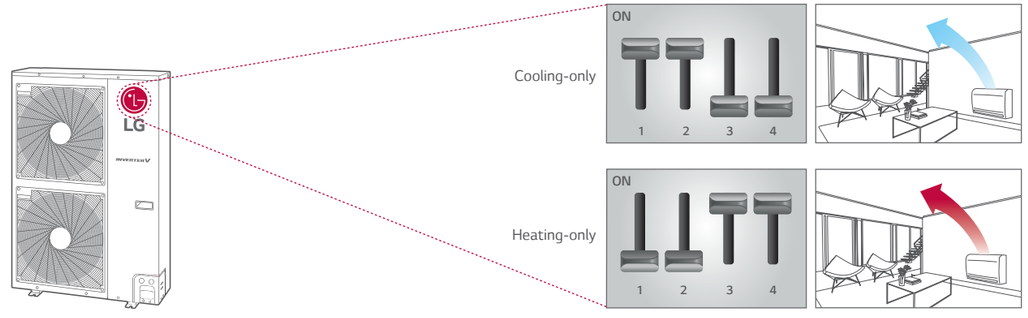
The peak current control function prevents the air conditioner from running at the maximum level while maintaining current system settings, in order to reduce energy consumption. This function helps minimize energy costs during the peak periods of energy use when the energy billing is much higher.



* Standard Inverter : capacity over 5kW

Mode Lock

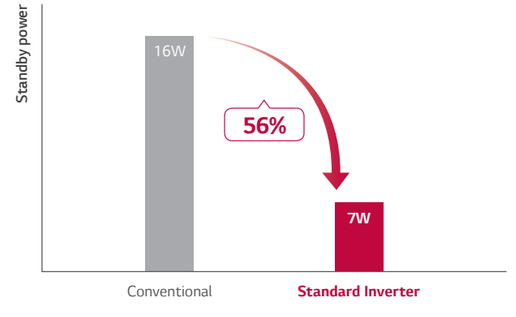
Set the operation mode to either cooling-only or heating-only; either by adjusting the wired remote controller or setting the DIP switch to avoid combined use of cooling and heating. (Some models need wired remote controller for mode lock function according to feature overview table)



Standby Mode

Standard Inverter can minimise power consumption by turning power off on the PCB except for the MICOM which receives signals.

1-phase 10 ~ 14kW

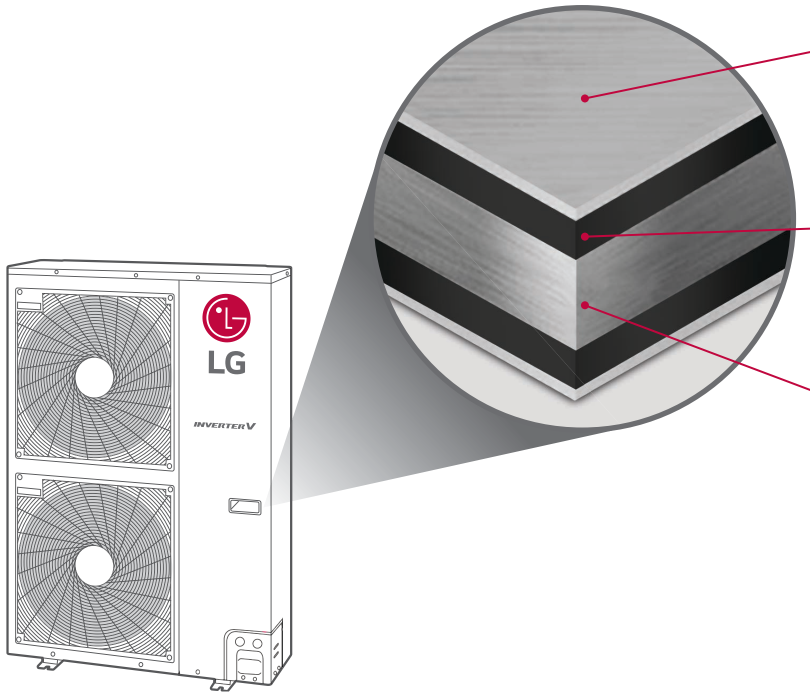


* The applicable products can be found in the 'Feature Overview'

DURABILITY

Ocean Black Fin

LG's exclusive "Ocean Black Fin" heat exchanger is designed for Improved corrosion resistance.



Hydrophilic film (Water flow) 0.2~0.3㎛
The Hydrophilic coating minimizes moisture formation on the fin.

Epoxy resin (Corrosion resistant) 1.6~2.0㎛
The Black coating provides strong protection from corrosion

Aluminum Fin

• Certified protection

- Test Method B of ISO21207, 6.2 & Annex A
- Test condition: Salt contaminated condition
  + severe industrial/traffic environment(NO_2/SO_2)

* Based on 1,500 UL test hours

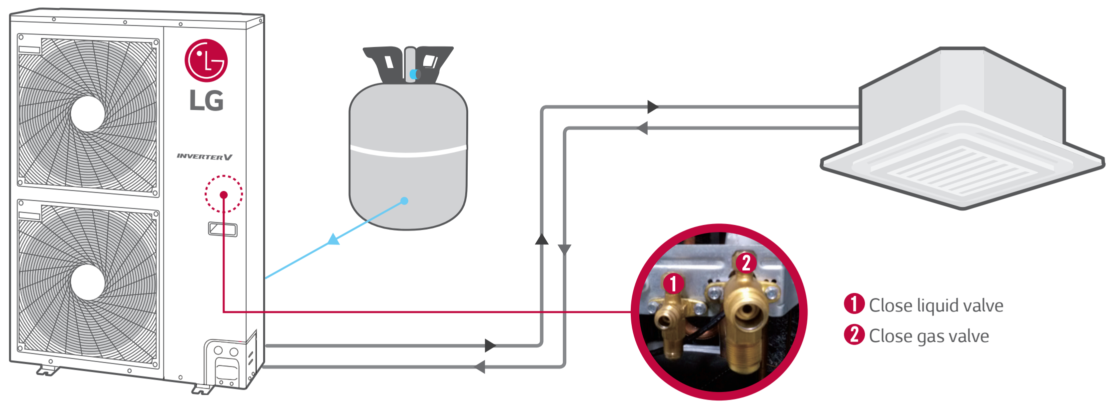
SINGLE SPLIT KEY FEATURES

FAST COOLING & HEATING

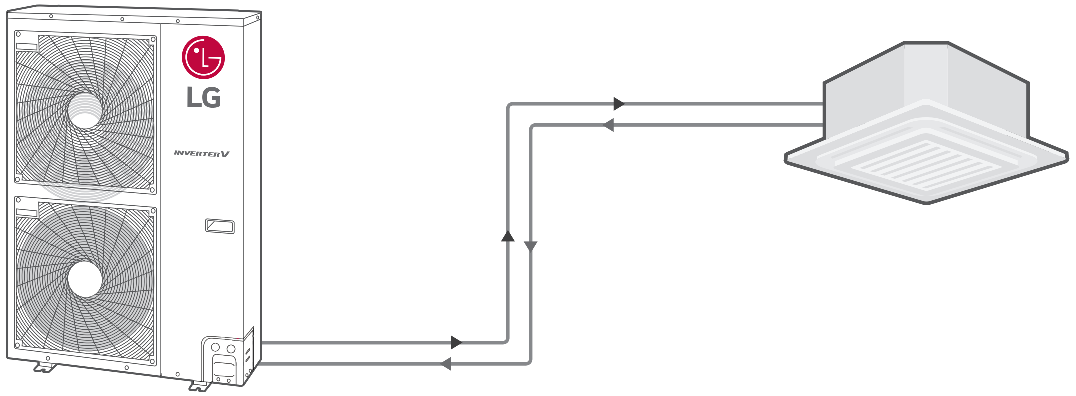
Forced Cooling Operation

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

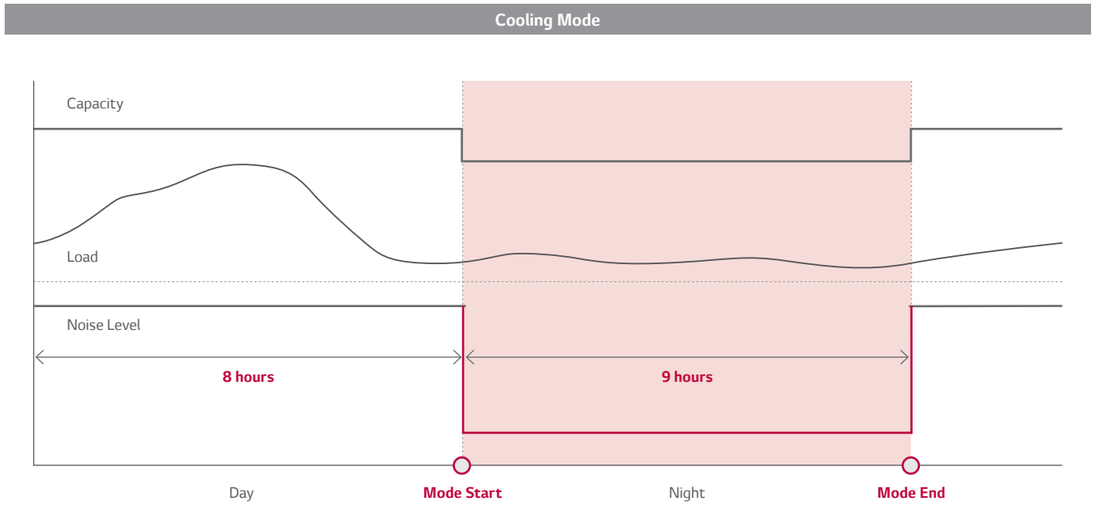


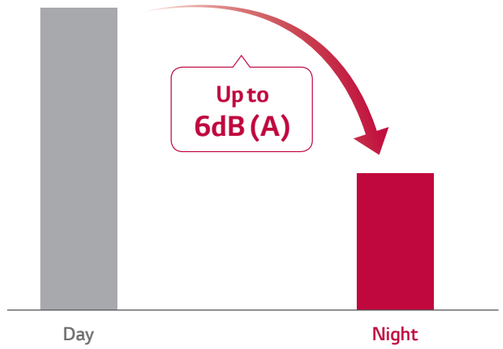
* The applicable products can be found in the 'Feature Overview'

COMFORT

Night Silent Operation

This function enables noise reduction during night time by simply setting the dip switch on the PCB of the outdoor unit.





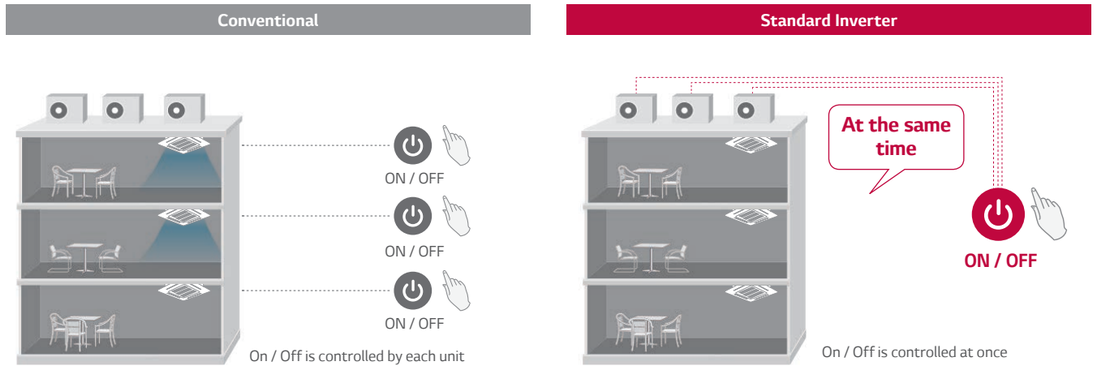
* This function is only available for Cooling Mode.
* If you want to stop the Night Quiet Mode, Change the Dip Switch.
* LG Internal test result, based on UU37WR

* The applicable products can be found in the 'Feature Overview'

SMART

Outdoor Dry Contact

Air conditioners can be turned ON/OFF at the same time using the ON/OFF dry contact function that outdoor units have. (Models capacity over 10 kW).



LG MV (Monitoring View)

LG MV helps engineers to inspect and monitor air conditioning units conveniently. Instructions are provided with the product type.
(SINGLE Split & MULTI Split)

LG MV displays cycle info represented by diagrams . It assists the user to check for data that is concentrated on a graph.
A technician can easily obtain info about the error status by looking up the Error Indicator table. (Troubleshooting guide)

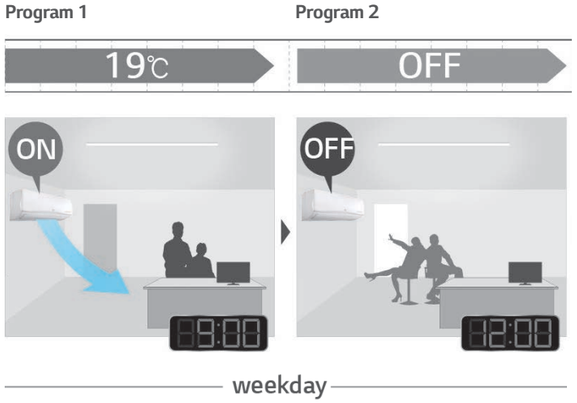
• Error Indicator

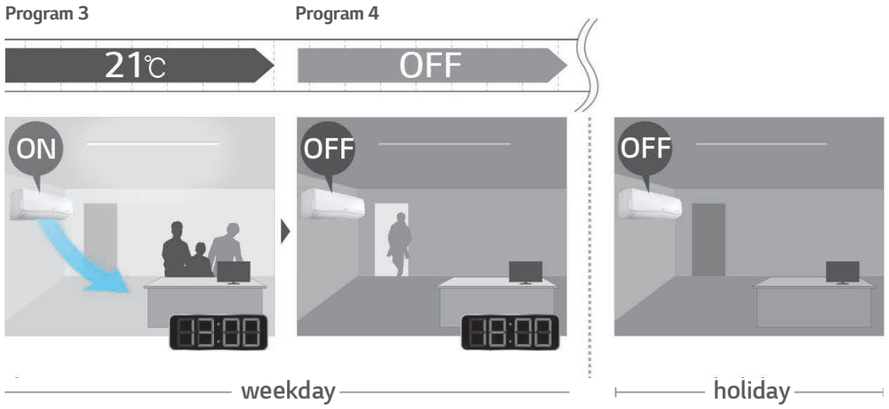
ERROR CODE	CONTENTS
01	Air temperature sensor of indoor unit
02	Inlet pipe temperature sensor of indoor unit
03	Communication error : Wired Remote Controller ⟷ Indoor Unit

SMART

Weekly Program

You can allot 2 reservations for one day, and up to 14 reservations for a week.

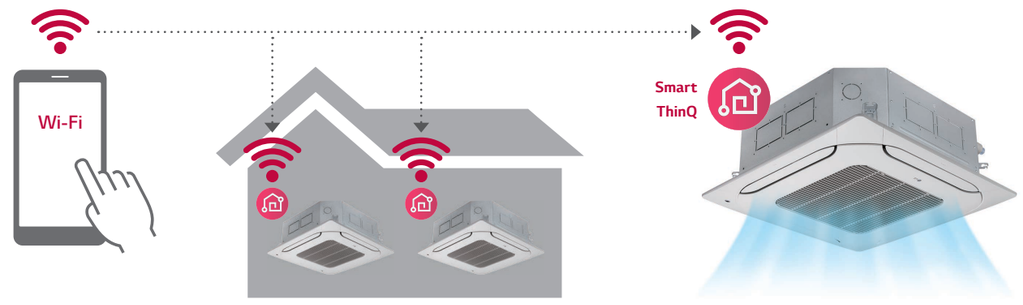




Wi-fi

Control your air conditioners via using the smart internet devices as Android or iOS based smartphones.
Wi-Fi modem (PWFMDD200) is required by option.

• Access your air conditioner anytime and from anywhere



• Simple operation for various functions

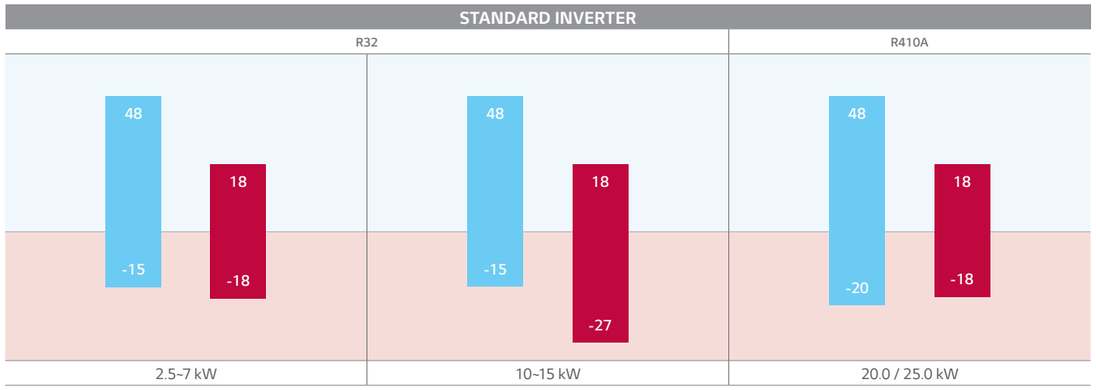
- ON/OFF
- Mode Selection
- Current temperature
- Set temperature
- Vane Control
- Reservation
- Energy Monitoring
- Filter Management

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

SINGLE SPLIT KEY FEATURES

PERFORMANCE

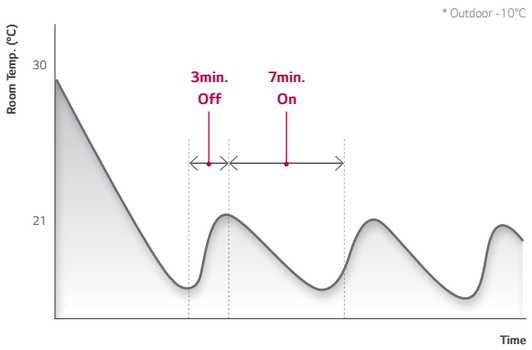
Wide Operation Range



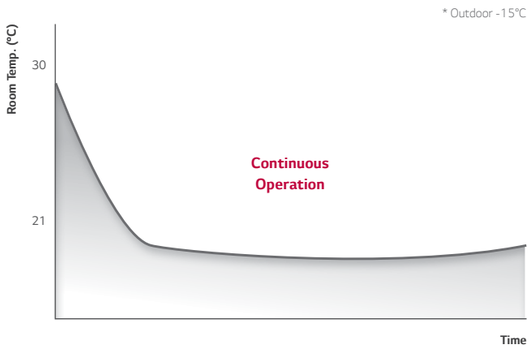
Stable Operation

High and stable cooling performance at low temperatures.

Conventional



Standard Inverter



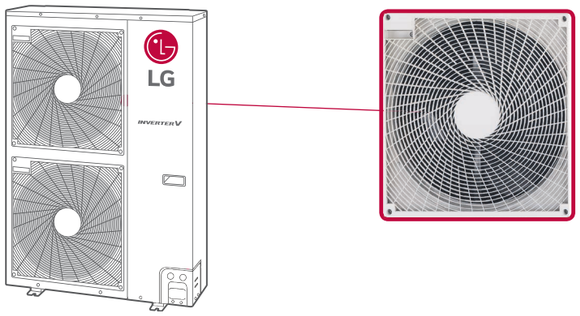
SINGLE SPLIT KEY FEATURES

QUIET OPERATION

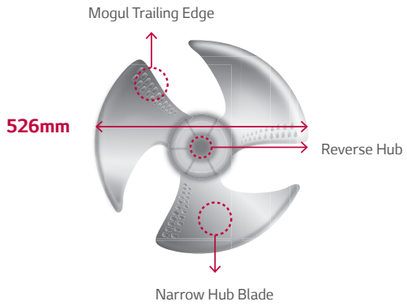
Advanced Grille & Fan

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.

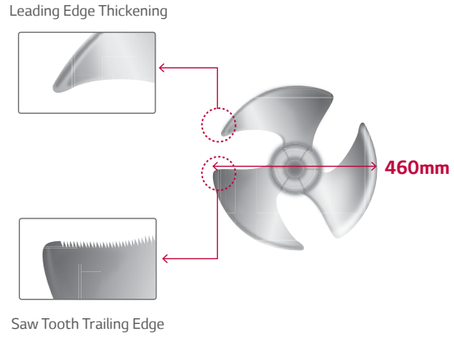
Grille



Fan Type 1



Fan Type 2



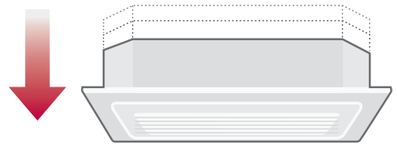
CEILING MOUNTED CASSETTE

SINGLE SPLIT KEY FEATURES

CEILING MOUNTED CASSETTE

Compact Size

The indoor unit with slim and compact dimensions allows successful installation by easily accommodating it in limited space.

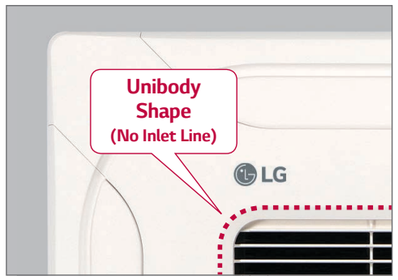


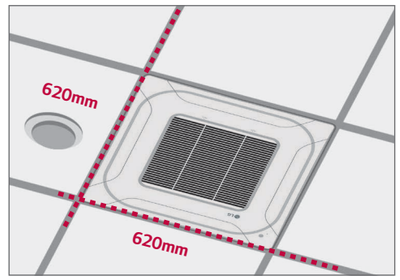
Length Width
: 840 x 840mm

Standard Inverter	Height
7.1 ~ 8.0kW	204mm
10.0kW	246mm
12.5 ~ 15kW	288mm

620 Panel – Compact and Stylish Design

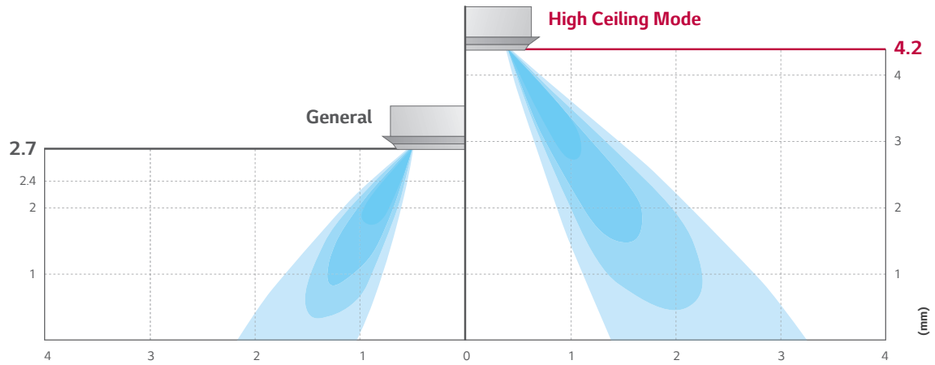
- New 4 way cassette panel adapted unibody shape and matching with into the ceiling
- Panel size is fit into the ceiling tile





High Ceiling Mode

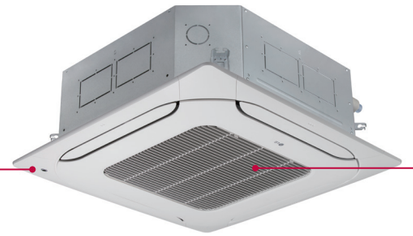
High ceiling mode provides powerful cooling and heating up to 4.2m in height, from ceiling to floor.

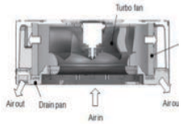


CEILING MOUNTED CASSETTE

Human detection sensor & humidity sensor

Human detection sensor
(PTVSMA0)





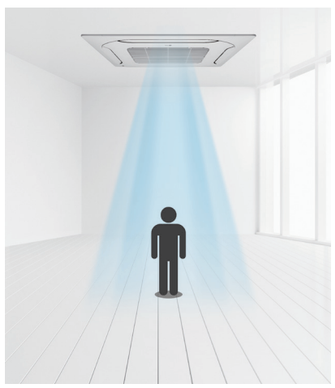
Apply human detection sensor
Apply vision sensor
- Saving energy
- Supply comfortable air flow
- The sensor is an optional accessory that can only be applied on PT-MCHW0

Comfortable and Power Saving Control based on Humidity
Apply humidity sensor
- Saving energy
- To apply humidity sensor, new remote controller, PREMTB100 or PREMTBB10 is needed

• Detection

Motion sensors detect the activity of people per 20seconds

• Detection range



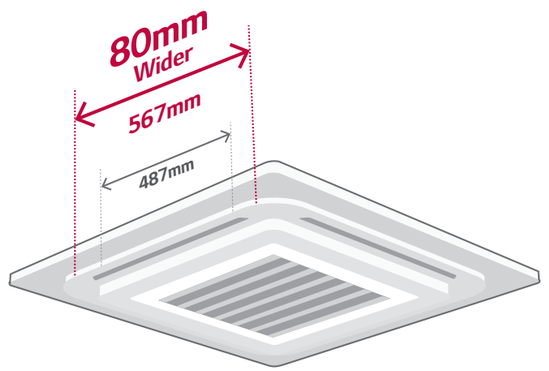
Height 3.2 (15 x 8m)

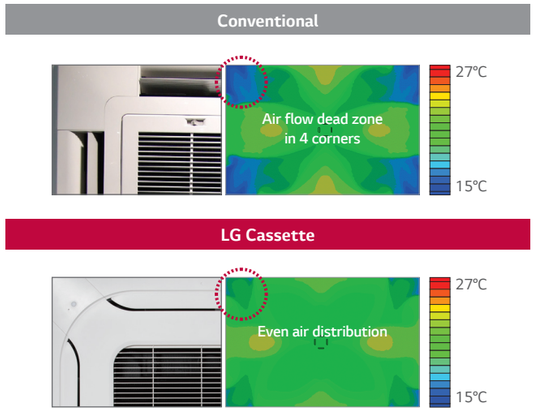
Height 3.5 (16 x 10m)

A sensor is installed 90˚rotation
12 × 6m ⟶ 6 × 12m detecting

950/620 Panel – Wide Jet Air Flow

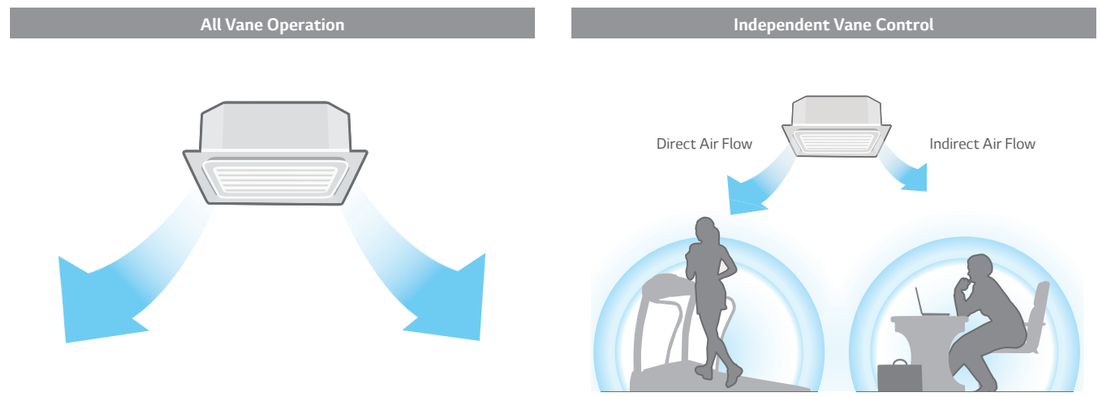
Improved vanes reduce the curved area and provide even distribution.





Independent Vane Operation

The independent vane operation feature uses separate motors, making it possible to control all four vanes independently.

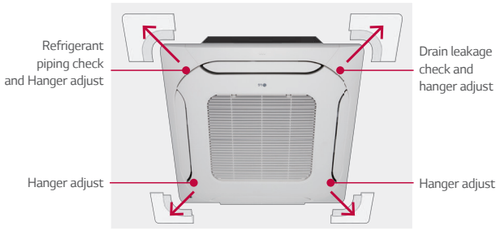


CEILING MOUNTED CASSETTE

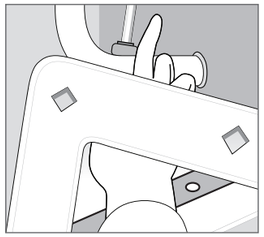
Convenient Panel Installation

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

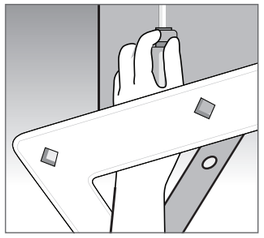
Detachable Corner Design



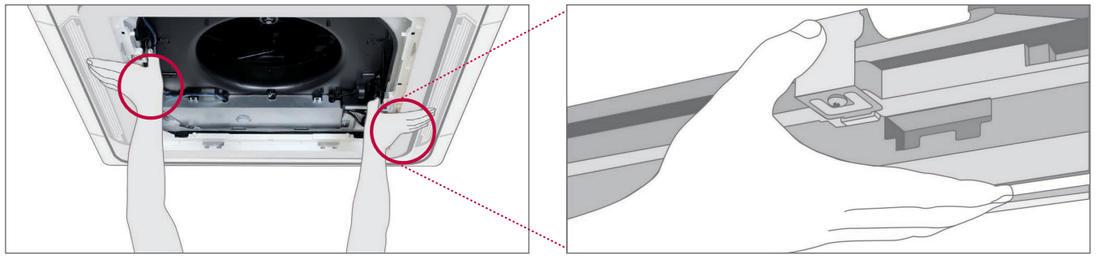
Drain Leakage Check



Hanger Adjust



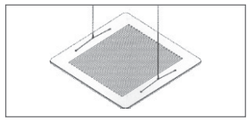
It is easy to attach the panel to the body, using the button type panel design



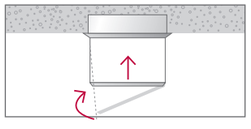
Auto Elevation Grille

Easy filter cleaning by using the elevation grill.

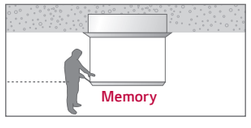
4-Point Support Structure



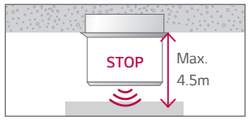
Auto Leveling



Memory for User's Level



Auto Stop Detection



* Operating with wired remote controller PREMTB100, PREMTB001 and wireless remote controller included in PTEGM0.
* Applied to cassette panel PT-UMC1

CEILING MOUNTED CASSETTE

R32

STANDARD INVERTER (R32)

CT09R
CT12R
CT18R
CT24R
UT30R

UU09WR
UU12WR
UU18WR
UU24WR
UU30WR

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INDOOR				CT09R.NR0	CT12R.NR0	CT18R.NQ0	CT24R.NP0	UT30R.NP0*
Capacity	Cooling	Min / Nom / Max	kW	1.0 / 2.5 / 2.8	1.4 / 3.4 / 3.9	2.0 / 5.0 / 5.7	2.84 / 6.8 / 7.8	3.2 / 8.0 / 8.8
	Heating	Min / Nom / Max	kW	1.2 / 3.2 / 3.4	1.6 / 4.0 / 4.6	2.2 / 5.8 / 6.8	3.2 / 8.0 / 8.8	3.6 / 9.0 / 9.9
Low Temperature Capacity	Heating -7°C	Max	kW	2.7	3.6	4.9	7.2	8.1
Power Input (Set)	Cooling	Nom	kW	0.63	0.97	1.56	1.94	2.39
	Heating	Nom	kW	0.75	1.12	1.66	2.00	2.65
Power Input (Indoor)		Min / Nom / Max	W	10 / 20 / 20	10 / 20 / 20	10 / 30 / 40	20 / 50 / 60	30 / 70 / 80
Running Current	Cooling / Heating	Nom	A	2.7 / 3.5	4.3 / 5.0	7.1 / 7.5	8.6 / 8.8	10.6 / 11.8
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
EER				4.00	3.51	3.21	3.51	3.36
COP				4.00	3.58	3.49	4.00	3.40
SEER				6.77	6.58	6.25	7.70	7.00
SCOP				4.36	4.40	4.25	4.60	4.20
Pdesign (@-10°C)			kW	3.0	3.0	4.1	5.8	6.3
Seasonal Energy Label	Cooling / Heating			A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	129 / 963	181 / 955	280 / 1,351	309 / 1,765	400 / 2,100
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25	32.0 / 25.0
Air Flow Rate		High / Medium / Low	m^3/min	8.5 / 7.0 / 6.0	9.5 / 8.0 / 7.0	13.0 / 12.0 / 11.0	17.0 / 15.0 / 13.0	19.0 / 17.0 / 15.0
Sound Pressure	Cooling	High / Medium / Low	dBA	36 / 33 / 30	38 / 35 / 32	41 / 39 / 36	38 / 36 / 34	40 / 37 / 35
Sound Power	Cooling	Max	dBA	52	52	57	57	58
Dehumidification Rate			l/h	0.9	1.4	2.0	2.7	2.5
Dimensions	Body	W x H x D	mm	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	840 x 204 x 840	840 x 204 x 840
Net Weight	Body		kg	14.0	14.0	14.3	20.5	20.5
Decoration Panel	Model			PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-MCHW0	PT-MCHW0
	Color			Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog
	Dimensions	W x H x D	mm	620 x 20 x 620	620 x 20 x 620	620 x 20 x 620	950 x 35 x 950	950 x 35 x 950
	Weight		kg	3.0	3.0	3.0	6.3	6.3

OUTDOOR				UU09WR.UL0	UU12WR.UL0	UU18WR.U20	UU24WR.U40	UU30WR.U40*
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m^3/min	32	32	50	58	58
Sound Pressure	Cooling	Nom	dBA	47	49	47	48	48
	Heating	Nom	dBA	50	52	52	52	52
Sound Power	Cooling	Max	dBA	65	65	63	67	68
Dimensions	W x H x D		mm	770 x 545 x 288	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330	950 x 834 x 330
Net Weight			kg	33.8	33.8	44.8	56.1	58.0
Refrigerant	Type			R32	R32	R32	R32	R32
	Charge		g	900	900	1,100	1,600	1,900
	Additional Charge (after 7.5m)		g/m	20	20	20	35	35
	GWP			675	675	675	675	675
	TCO_2eq			0.61	0.61	0.74	1.08	1.28
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-15 / 48	-15 / 48	-15 / 48	-15 / 48	-15 / 48
	Heating	Min / Max	°C WB	-18 / 18	-18 / 18	-18 / 18	-18 / 18	-18 / 18
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
Power Supply Cable			No. x mm^2	3C x 2.5	3C x 2.5	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	15	20	25	25
Piping Length Total		Min / Max	m	5 / 20	5 / 20	5 / 30	5 / 50	5 / 50
Piping Elevation Difference	IDU - ODU	Max	m	15	15	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

* Available from April 2019.
※ For our policy of continuous product improvement, specification, design and features are subject to change without prior notice.
Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. Definition of Power Input Nominal conditions – Performance tested under EN14511
3. Capacities are based on the following conditions : Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB
Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

CEILING MOUNTED CASSETTE

R32

COMMERCIAL

STANDARD INVERTER (R32)

UT36R
UT42R
UT48R
UT60R

UU36WR / UU42WR
UU48WR / UU60WR

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INDOOR				UT36R.NM0	UT42R.NM0	UT48R.NM0	UT60R.NM0
Capacity	Cooling	Min / Nom / Max	kW	4.5 / 9.5 / 13.0	5.0 / 12.0 / 14.5	5.5 / 13.4 / 16.0	5.9 / 14.6 / 16.3
	Heating	Min / Nom / Max	kW	5.0 / 10.8 / 13.7	5.5 / 13.5 / 16.5	6.1 / 15.5 / 18.0	6.8 / 16.9 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	9.8	12.5	14.3	15.2
Power Input (Set)	Cooling	Nom	kW	2.47	3.50	4.35	5.38
	Heating	Nom	kW	2.80	3.75	4.82	5.60
Power Input (Indoor)		Min / Nom / Max	W	40 / 190 / 210	40 / 190 / 210	40 / 190 / 210	40 / 190 / 210
Running Current	Cooling / Heating	Nom	A	10.7 / 12.2	15.2 / 16.3	18.9 / 21.0	23.4 / 24.3
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.85	3.43	3.08	2.71
COP				3.86	3.60	3.22	3.02
SEER				6.50	6.10	5.87	5.57
SCOP				4.30	4.10	4.04	3.92
Pdesign (@-10°C)			kW	8.05	8.05	9.30	9.30
Seasonal Energy Label	Cooling / Heating			A++ / A+	A++ / A+	-	-
Annual Energy Consumption	Cooling / Heating		kWh	512 / 2,605	689 / 2,732	1, 370 / 3,223	1,573 / 3,321
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
Air Flow Rate		High / Medium / Low	m^3/min	30.0 / 25.0 / 20.0	33.0 / 28.0 / 22.0	33.0 / 28.0 / 22.0	33.0 / 28.0 / 22.0
Sound Pressure	Cooling	High / Medium / Low	dBA	46 / 43 / 40	47 / 44 / 41	47 / 44 / 41	47 / 44 / 41
Sound Power	Cooling	Max	dBA	62	64	64	66
Dehumidification Rate			l/h	2.7	4.2	5.2	6.2
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
Net Weight	Body		kg	24.6	24.6	24.6	24.6
Decoration Panel	Model			PT-MCHW0	PT-MCHW0	PT-MCHW0	PT-MCHW0
	Color			Morning Fog	Morning Fog	Morning Fog	Morning Fog
	Dimensions	W x H x D	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Weight		kg	6.3	6.3	6.3	6.3

OUTDOOR				UU36WR.U30	UU42WR.U30	UU48WR.U30	UU60WR.U30
Compressor	Type			R-Scroll	R-Scroll	R-Scroll	R-Scroll
Airflow Rate		Nom	m^3/min	110	110	110	110
Sound Pressure	Cooling	Nom	dBA	52	52	52	52
	Heating	Nom	dBA	54	54	54	54
Sound Power	Cooling	Max	dBA	66	67	68	68
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	950 x 1,380 x 330
Net Weight			kg	87.5	87.5	87.5	87.5
Refrigerant	Type			R32	R32	R32	R32
	Charge		g	3,000	3,000	3,000	3,000
	Additional Charge (after 7.5m)		g/m	40	40	40	40
	GWP			675	675	675	675
	TCO_2eq			2.03	2.03	2.03	2.03
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-15 / 48	-15 / 48	-15 / 48	-15 / 48
	Heating	Min / Max	°C WB	-27 / 18	-27 / 18	-27 / 18	-27 / 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm^2	3C x 6.0	3C x 6.0	3C x 6.0	3C x 6.0
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	40	40	40	40
Piping Length Total		Min / Max	m	5 / 85	5 / 85	5 / 85	5 / 85
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

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Note :
1. Due to our policy of innovation some specifications may be changed without notification.
2. Definition of Power Input Nominal conditions – Performance tested under EN14511
3. Capacities are based on the following conditions : Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB
Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

STANDARD INVERTER (R32)

UT36R
UT42R
UT48R
UT60R

UU37WR / UU43WR
UU49WR / UU61WR

3Phase

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INDOOR				UT36R.NM0	UT42R.NM0	UT48R.NM0	UT60R.NM0
Capacity	Cooling	Min / Nom / Max	kW	4.5 / 9.5 / 13.0	5.0 / 12.0 / 14.5	5.5 / 13.4 / 16.0	5.9 / 14.6 / 16.3
	Heating	Min / Nom / Max	kW	5.0 / 10.8 / 13.7	5.5 / 13.5 / 16.5	6.1 / 15.5 / 18.0	6.8 / 16.9 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	9.8	12.5	14.3	15.2
Power Input (Set)	Cooling	Nom	kW	2.47	3.50	4.35	5.38
	Heating	Nom	kW	2.80	3.75	4.82	5.60
Power Input (Indoor)		Min / Nom / Max	W	40 / 190 / 210	40 / 190 / 210	40 / 190 / 210	40 / 190 / 210
Running Current	Cooling / Heating	Nom	A	3.6 / 4.0	5.1 / 5.4	5.8 / 6.4	7.8 / 8.1
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.85	3.43	3.08	2.71
COP				3.86	3.60	3.22	3.02
SEER				6.50	6.18	5.87	5.57
SCOP				4.30	4.17	4.04	3.92
Pdesign (@-10°C)			kW	8.05	8.05	9.30	9.30
Seasonal Energy Label	Cooling / Heating			A++ / A+	A++ / A+	-	-
Annual Energy Consumption	Cooling / Heating		kWh	512 / 2,605	689 / 2,732	1, 370 / 3,223	1,573 / 3,321
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
Air Flow Rate		High / Medium / Low	m^3/min	30.0 / 25.0 / 20.0	33.0 / 28.0 / 22.0	33.0 / 28.0 / 22.0	33.0 / 28.0 / 22.0
Sound Pressure	Cooling	High / Medium / Low	dBA	46 / 43 / 40	47 / 44 / 41	47 / 44 / 41	47 / 44 / 41
Sound Power	Cooling	Max	dBA	62	64	64	66
Dehumidification Rate			l/h	2.7	4.2	5.2	6.2
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
Net Weight	Body		kg	24.6	24.6	24.6	24.6
Decoration Panel	Model			PT-MCHW0	PT-MCHW0	PT-MCHW0	PT-MCHW0
	Color			Morning Fog	Morning Fog	Morning Fog	Morning Fog
	Dimensions	W x H x D	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Weight		kg	6.3	6.3	6.3	6.3

OUTDOOR				UU37WR.U30	UU43WR.U30	UU49WR.U30	UU61WR.U30
Compressor	Type			R-Scroll	R-Scroll	R-Scroll	R-Scroll
Airflow Rate		Nom	m3/min	110	110	110	110
Sound Pressure	Cooling	Nom	dBA	52	52	52	52
	Heating	Nom	dBA	54	54	54	54
Sound Power	Cooling	Max	dBA	66	67	68	68
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	950 x 1,380 x 330
Net Weight			kg	87.5	87.5	87.5	87.5
Refrigerant	Type			R32	R32	R32	R32
	Charge		g	3,000	3,000	3,000	3,000
	Additional Charge (after 7.5m)		g/m	40	40	40	40
	GWP			675	675	675	675
	TCO_2eq			2.03	2.03	2.03	2.03
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-15 / 48	-15 / 48	-15 / 48	-15 / 48
	Heating	Min / Max	°C WB	-27 / 18	-27 / 18	-27 / 18	-27 / 18
Power Supply			Ø / V / Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm^2	5C x 2.5	5C X 2.5	5C x 2.5	5C x 2.5
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	40	20	20
Piping Length Total		Min / Max	m	5 / 85	5 / 85	5 / 85	5 / 85
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

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Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. Definition of Power Input Nominal conditions – Performance tested under EN14511
3. Capacities are based on the following conditions : Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB
Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

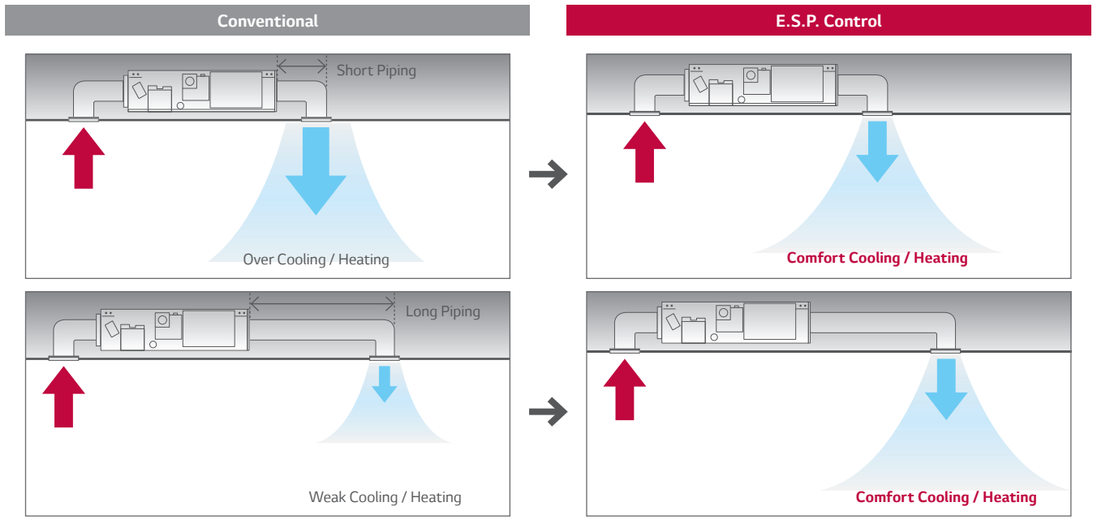
CEILING CONCEALED DUCT

SINGLE SPLIT KEY FEATURES

CEILING CONCEALED DUCT

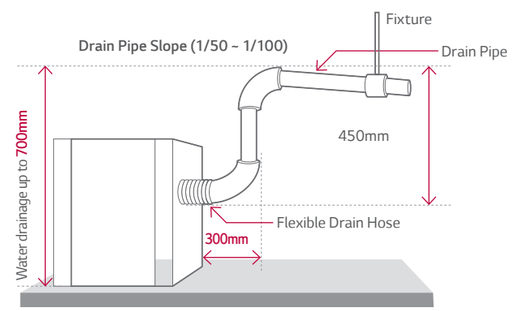
E.S.P. (External Static Pressure) Control

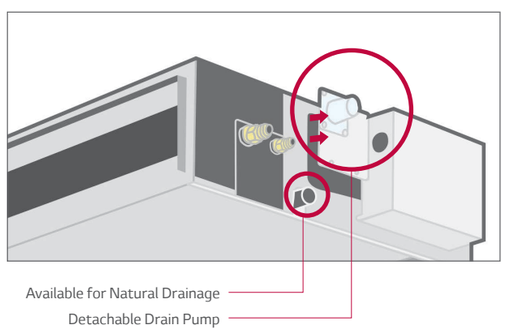
This function easily controls volume of the air by a remote controller. The BLDC motor can control fan speed and air volume regardless of the external static pressure. Additional accessories are not required to control air flow.



High Head Drain Pump

High head drain pump automatically drains water up to a height of 200mm of drain-head height. It provides the perfect solution for draining of water. (Standard Inverter : Accessory (ABDPG) / Low-Static Duct : Included)

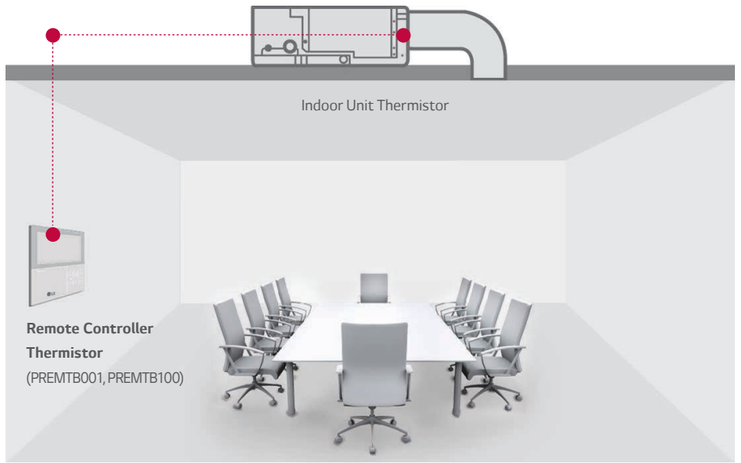




CEILING CONCEALED DUCT

Two Thermistors Control

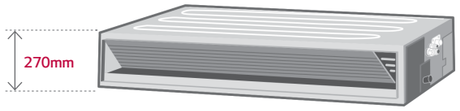
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.

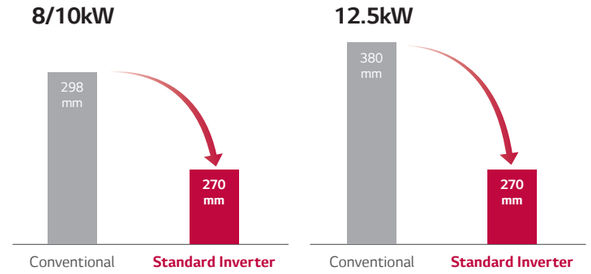


Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users

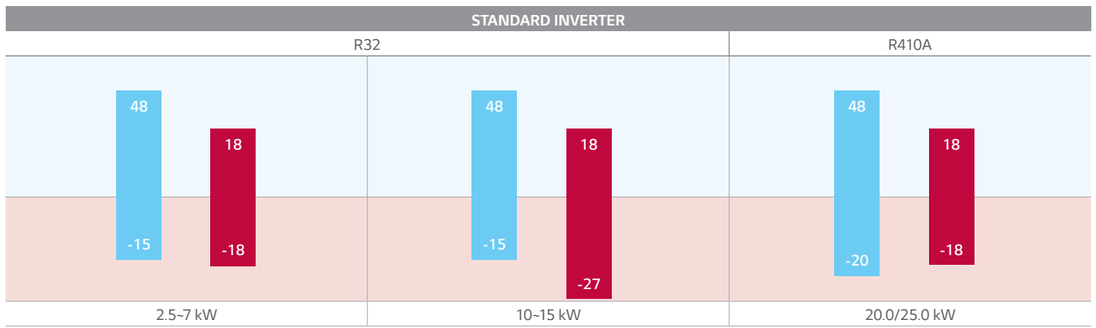
Minimized Height

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





Wide Operation Range

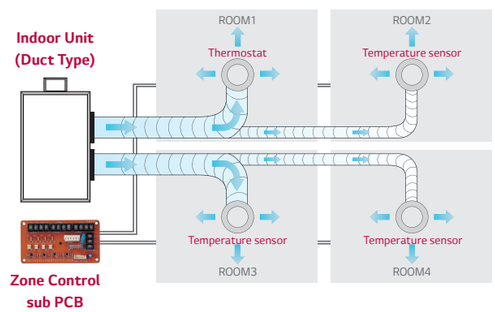


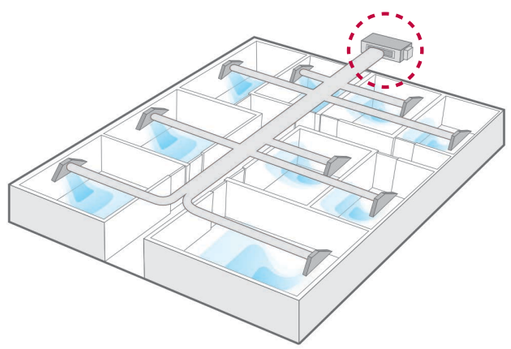
Operation for Multiple Rooms

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 accessary (ABZCA)

Zone control features

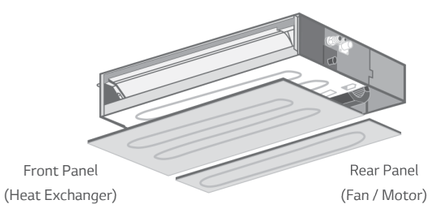
- Controls different zones (up to 4 zones) by external thermostat (AC 24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation

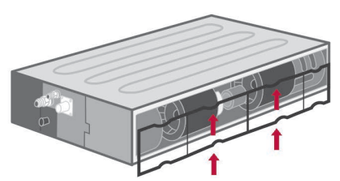




Easy Service & Maintenance

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.



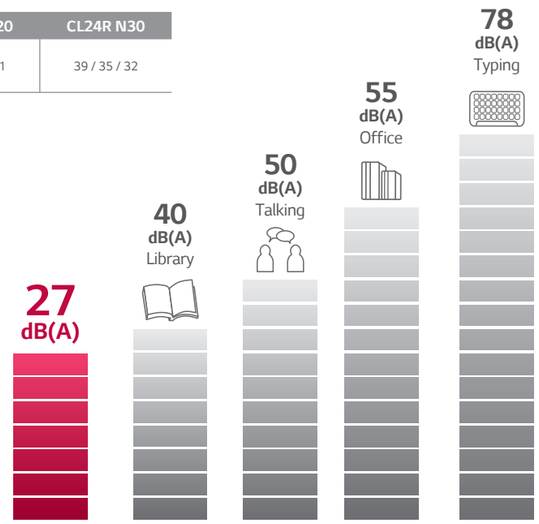


CEILING CONCEALED DUCT (LOW STATIC PRESSURE)

Quiet Operation

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

		CL09R N20	CL12R N20	CL18R N20	CL24R N30
Sound Pressure (High / Medium / Low)	dB (A)	31 / 28 / 27	31 / 28 / 27	36 / 34 / 31	39 / 35 / 32

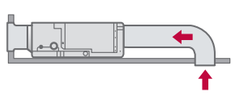


Flexible Installation

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

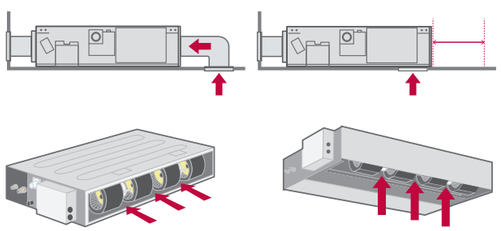
Conventional

Air intake at the only rear



Standard Inverter Low Static Duct

Air intake at the rear or bottom



CEILING CONCEALED DUCT

R32

COMMERCIAL

STANDARD INVERTER (R32)

HIGH STATIC PRESSURE
- CM18R / CM24R / UM30R

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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UU18WR **UU24WR** **UU30WR**

INDOOR				CM18R.N10	CM24R.N10	UM30R.N10*
Capacity	Cooling	Min / Nom / Max	kW	1.8 / 5.0 / 6.0	2.8 / 6.8 / 7.8	3.2 / 7.8 / 8.8
	Heating	Min / Nom / Max	kW	2.2 / 6.0 / 7.2	3.2 / 7.5 / 8.3	3.6 / 9.0 / 9.9
Low Temperature Capacity	Heating -7°C	Max	kW	5.4	7.2	8.1
Power Input (Set)	Cooling	Nom	kW	1.46	2.03	2.31
	Heating	Nom	kW	1.60	2.20	2.62
Power Input (Indoor)		Min / Max (ESP 2.5mmAq)	W	50 / 80	50 / 90	90 / 150
		Min / Max (ESP 8.0mmAq)	W	90 / 160	100 / 180	160 / 240
Running Current	Cooling / Heating	Nom	A	6.5 / 7.1	9.0 / 9.8	10.1 / 10.7
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.42	3.35	3.37
COP				3.74	3.40	3.44
SEER				6.30	6.81	6.20
SCOP				4.15	4.01	4.00
Pdesign (@-10°C)			kW	4.1	5.4	6.3
Seasonal Energy Label	Cooling / Heating			A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	278 / 1,383	350 / 1,890	440 / 2,205
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 2.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32.0 / 25.0	32.0 / 25.0	32.0 / 25.0
Air Flow Rate		High / Medium / Low	m^3/min	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.5	22.0 / 20.0 / 18.0
Sound Pressure	Cooling	High / Medium / Low	dBA	34 / 32 / 30	35 / 34 / 32	37 / 35 / 34
Sound Power	Cooling	Max	dBA	59	60	62
Dehumidification Rate			l/h	1.5	2.5	2.8
Dimensions	Body	W x H x D	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
Net Weight	Body		kg	26.5	26.5	25.3
External Static Pressure		Min / Max	mmAq (Pa)	2.5 / 15 (25 / 147)	2.5 / 15 (25 / 147)	2.5 / 15 (25 / 147)

OUTDOOR				UU18WR.U20	UU24WR.U40	UU30WR.U40*
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m^3/min	50	58	58
Sound Pressure	Cooling	Nom	dBA	47	48	48
	Heating	Nom	dBA	52	52	52
Sound Power	Cooling	Max	dBA	63	67	68
Dimensions	W x H x D		mm	870 x 650 x 330	950 x 834 x 330	950 x 834 x 330
Net Weight			kg	44.8	56.1	58.0
Refrigerant	Type			R32	R32	R32
	Charge		g	1,100	1,600	1,900
	Additional Charge (after 7.5m)		g/m	20	35	35
	GWP			675	675	675
	TCO_2eq			0.74	1.08	1.28
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-15 / 48	-15 / 48	-15 / 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^2	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	25	25
Piping Length Total		Min / Max	m	5 / 30	5 / 50	5 / 50
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

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3. Capacities are based on the following conditions : Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB
Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

SINGLE SPLIT SPECIFICATION

CEILING CONCEALED DUCT

R32

COMMERCIAL

STANDARD INVERTER (R32)

HIGH STATIC PRESSURE
- UM36R / UM42R / UM48R / UM60R

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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UU36WR / UU42WR
UU48WR / UU60WR

INDOOR				UM36R.N20	UM42R.N20	UM48R.N30	UM60R.N30
Capacity	Cooling	Min / Nom / Max	kW	4.5 / 9.5 / 13.0	5.1 / 12.0 / 14.5	5.5 / 13.4 / 16.0	5.9 / 15.0 / 16.3
	Heating	Min / Nom / Max	kW	5.0 / 10.8 / 13.7	5.5 / 13.5 / 16.5	6.1 / 15.5 / 18.0	6.8 / 16.8 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	10.0	12.5	14.8	15.2
Power Input (Set)	Cooling	Nom	kW	2.43	3.45	4.00	4.75
	Heating	Nom	kW	2.85	3.65	4.40	4.80
Power Input (Indoor)		Min / Max (ESP 5.0mmAq)	W	120 / 210	140 / 260	100 / 220	270 / 290
		Min / Max (ESP 15.0mmAq)	W	200 / 360	230 / 380	220 / 340	300 / 430
Running Current	Cooling / Heating	Nom	A	10.6 / 12.4	15.0 / 15.9	17.4 / 19.1	20.7 / 20.9
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.91	3.48	3.35	3.16
COP				3.79	3.70	3.52	3.50
SEER				5.62	5.50	5.51	5.45
SCOP				4.04	4.00	3.96	3.92
Pdesign (@-10°C)			kW	8.05	8.05	9.3	9.3
Seasonal Energy Label	Cooling / Heating			A+ / A+	A / A+	-	-
Annual Energy Consumption	Cooling / Heating		kWh	594 / 2,800	764 / 2,800	1,459 / 3,288	1,651 / 3,321
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
Air Flow Rate		High / Medium / Low	m^3/min	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
Sound Pressure	Cooling	High / Medium / Low	dBA	36 / 34 / 33	38 / 36 / 34	40 / 38 / 36	42 / 40 / 38
Sound Power	Cooling	Max	dBA	60	62	65	66
Dehumidification Rate			l/h	2.6	3.6	4.5	5.0
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
Net Weight	Body		kg	38.5	38.5	43.5	43.5
External Static Pressure		Min / Max	mmAq (Pa)	4 / 15 (39 / 147)	5 / 15 (49 / 147)	5 / 15 (49 / 147)	5 / 15 (49 / 147)

OUTDOOR				UU36WR.U30	UU42WR.U30	UU48WR.U30	UU60WR.U30
Compressor	Type			R-Scroll	R-Scroll	R-Scroll	R-Scroll
Airflow Rate		Nom	m^3/min	110	110	110	110
Sound Pressure	Cooling	Nom	dBA	52	52	52	52
	Heating	Nom	dBA	54	54	54	54
Sound Power	Cooling	Max	dBA	66	67	68	68
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	950 x 1,380 x 330
Net Weight			kg	87.5	87.5	87.5	87.5
Refrigerant	Type			R32	R32	R32	R32
	Charge		g	3,000	3,000	3,000	3,000
	Additional Charge (after 7.5m)		g/m	40	40	40	40
	GWP			675	675	675	675
	TCO_2eq			2.03	2.03	2.03	2.03
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-15 / 48	-15 / 48	-15 / 48	-15 / 48
	Heating	Min / Max	°C WB	-27 / 18	-27 / 18	-27 / 18	-27 / 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm^2	3C x 6.0	3C x 6.0	3C x 6.0	3C x 6.0
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	40	40	40	40
Piping Length Total		Min / Max	m	5 / 85	5 / 85	5 / 85	5 / 85
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

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Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

STANDARD INVERTER (R32)

HIGH STATIC PRESSURE
- UM36R / UM42R / UM48R / UM60R

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UU37WR / UU43WR
UU49WR / UU61WR

3Phase

INDOOR				UM36R.N20	UM42R.N20	UM48R.N30	UM60R.N30
Capacity	Cooling	Min / Nom / Max	kW	4.5 / 9.5 / 13.0	5.1 / 12.0 / 14.5	5.5 / 13.4 / 16.0	5.9 / 15.0 / 16.3
	Heating	Min / Nom / Max	kW	5.0 / 10.8 / 13.7	5.5 / 13.5 / 16.5	6.1 / 15.5 / 18.0	6.8 / 16.8 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	10.0	12.5	14.8	15.2
Power Input (Set)	Cooling	Nom	kW	2.43	3.45	4.00	4.75
	Heating	Nom	kW	2.85	3.65	4.40	4.80
Power Input (Indoor)		Min / Max (ESP 5.0mmAq)	W	120 / 210	140 / 260	100 / 220	270 / 290
		Min / Max (ESP 15.0mmAq)	W	200 / 360	230 / 380	220 / 340	300 / 430
Running Current	Cooling / Heating	Nom	A	3.5 / 4.1	5.0 / 5.3	5.8 / 6.4	6.9 / 6.9
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.91	3.48	3.35	3.16
COP				3.79	3.70	3.52	3.50
SEER				5.60	5.50	5.51	5.45
SCOP				4.00	4.00	3.96	3.92
Pdesign (@-10°C)			kW	8.05	8.05	9.3	9.3
Seasonal Energy Label	Cooling / Heating			A+ / A+	A / A+	-	-
Annual Energy Consumption	Cooling / Heating		kWh	594 / 2,800	764 / 2,800	1,459 / 3,288	1,651 / 3,321
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
Air Flow Rate		High / Medium / Low	m^3/min	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
Sound Pressure	Cooling	High / Medium / Low	dBA	36 / 34 / 33	38 / 36 / 34	40 / 38 / 36	42 / 40 / 38
Sound Power	Cooling	Max	dBA	60	62	65	66
Dehumidification Rate			l/h	2.6	3.6	4.5	5.0
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
Net Weight	Body		kg	38.5	38.5	43.5	43.5
External Static Pressure		Min / Max	mmAq (Pa)	4 / 15 (39 / 147)	5 / 15 (49 / 147)	5 / 15 (49 / 147)	5~15 (49 / 147)

OUTDOOR				UU37WR.U30	UU43WR.U30	UU49WR.U30	UU61WR.U30
Compressor	Type			R-Scroll	R-Scroll	R-Scroll	R-Scroll
Airflow Rate		Nom	m^3/min	110	110	110	110
Sound Pressure	Cooling	Nom	dBA	52	52	52	52
	Heating	Nom	dBA	54	54	54	54
Sound Power	Cooling	Max	dBA	66	67	68	68
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	950 x 1,380 x 330
Net Weight			kg	87.5	87.5	87.5	87.5
Refrigerant	Type			R32	R32	R32	R32
	Charge		g	3,000	3,000	3,000	3,000
	Additional Charge (after 7.5m)		g/m	40	40	40	40
	GWP			675	675	675	675
	TCO_2eq			2.03	2.03	2.03	2.03
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-15 / 48	-15 / 48	-15 / 48	-15 / 48
	Heating	Min / Max	°C WB	-27 / 18	-27 / 18	-27 / 18	-27 / 18
Power Supply			Ø / V / Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm^2	5C x 2.5	5C x 2.5	5C x 2.5	5C x 2.5
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	40	20	20
Piping Length Total		Min / Max	m	5 / 85	5 / 85	5 / 85	5 / 85
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

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Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

CEILING CONCEALED DUCT

STANDARD INVERTER (R32)

LOW STATIC PRESSURE
- CL09R / CL12R / CL18R / CL24R

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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UU09WR
UU12WR

UU18WR

UU24WR

INDOOR				CL09R.N20	CL12R.N20	CL18R.N20	CL24R.N30
Capacity	Cooling	Min / Nom / Max	kW	1.1 / 2.5 / 3.2	1.4 / 3.4 / 3.9	2.0 / 5.0 / 6.0	4.0 / 7.1 / 7.7
	Heating	Min / Nom / Max	kW	1.2 / 3.2 / 3.6	1.6 / 4.0 / 4.7	2.2 / 6.0 / 7.2	2.0 / 7.5 / 8.2
Low Temperature Capacity	Heating -7°C	Max	kW	3.5	4.4	6.7	8.2
Power Input (Set)	Cooling	Nom	kW	0.64	0.99	1.52	2.15
	Heating	Nom	kW	0.74	1.00	1.76	2.06
Power Input (Indoor)		Min / Max (ESP 2.5mmAq)	W	80 / 95	80 / 95	95 / 120	90 / 150
		Min / Max (ESP 5.0mmAq)	W	80 / 100	80 / 100	100 / 140	110 / 160
Running Current	Cooling / Heating	Nom	A	2.8 / 3.2	4.2 / 4.6	6.8 / 7.8	9.5 / 9.1
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.90	3.42	3.30	3.30
COP				4.30	4.00	3.41	3.65
SEER				6.28	6.28	6.30	6.60
SCOP				4.00	4.00	3.95	4.20
Pdesign (@-10°C)			kW	3.0	3.0	4.1	5.4
Seasonal Energy Label	Cooling / Heating			A++ / A+	A++ / A+	A++ / A	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	139 / 1,050	189 / 1,050	278 / 1,453	377 / 1,798
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32.0 / 25.0	32.0 / 25.0	32.0 / 25.0	32.0 / 25.0
Air Flow Rate		High / Medium / Low	m^3/min	10.0 / 8.5 / 7.0	10.0 / 8.5 / 7.0	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
Sound Pressure	Cooling	High / Medium / Low	dBA	31 / 28 / 27	31 / 28 / 27	36 / 34 / 31	39 / 35 / 32
Sound Power	Cooling	Max	dBA	55	55	54	58
Dehumidification Rate			l/h	0.5	1.1	1.6	2.6
Dimensions	Body	W x H x D	mm	900 x 190 x 700	900 x 190 x 700	900 x 190 x 700	1,100 x 190 x 700
Net Weight	Body		kg	24.0	24.0	24.0	27.0
External Static Pressure		Min / Max	mmAq (Pa)	0 / 5 (0 / 49)	0 / 5 (0 / 49)	0 / 5 (0 / 49)	0 / 5 (0 / 49)

OUTDOOR				UU09WR.UL0	UU12WR.UL0	UU18WR.U20	UU24WR.U40
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m^3/min	32	32	50	58
Sound Pressure	Cooling	Nom	dBA	47	49	47	48
	Heating	Nom	dBA	50	52	52	52
Sound Power	Cooling	Max	dBA	65	65	63	67
Dimensions	W x H x D		mm	770 x 545 x 288	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330
Net Weight			kg	33.8	33.8	44.8	56.1
Refrigerant	Type			R32	R32	R32	R32
	Charge		g	900	900	1,100	1,600
	Additional Charge (after 7.5m)		g/m	20	20	20	35
	GWP			675	675	675	675
	TCO_2eq			0.61	0.61	0.74	1.08
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-15 / 48	-15 / 48	-15 / 48	-15 / 48
	Heating	Min / Max	°C WB	-18 / 18	-18 / 18	-18 / 18	-18 / 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm^2	3C x 2.5	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	15	20	25
Piping Length Total		Min / Max	m	5 / 20	5 / 20	5 / 30	5 / 50
Piping Elevation Difference	IDU - ODU	Max	m	10	10	30	30
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 15.88 (5/8)

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Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

COMPACT INVERTER (R32)

HIGH STATIC PRESSURE
- CM18R / CM24R / UM30R / UM36R

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UU18WCR

UU24WCR
UU30WCR
UU36WCR

INDOOR				CM18R.N10	CM24R.N10	UM30R.N10	UM36R.N20*
Capacity	Cooling	Min / Nom / Max	kW	1.8 / 5.0 / 5.3	2.7 / 6.8 / 7.4	3.0 / 7.5 / 8.2	4.5 / 9.5 / 13.0
	Heating	Min / Nom / Max	kW	1.7 / 5.2 / 6.0	1.9 / 7.5 / 8.2	2.0 / 8.0 / 8.4	5.0 / 10.8 / 13.7
Low Temperature Capacity	Heating -7°C	Max	kW	3.9	5.7	7.0	8.7
Power Input (Set)	Cooling	Nom	kW	1.67	2.27	2.34	3.35
	Heating	Nom	kW	1.58	2.40	2.28	2.93
Power Input (Indoor)		Min / Max (ESP 2.5mmAq)	W	50 / 80	50 / 90	90 / 150	120 / 210
		Min / Max (ESP 8.0mmAq)	W	90 / 160	100 / 180	160 / 240	200 / 360
Running Current	Cooling / Heating	Nom	A	7.4 / 7.0	10.2 / 10.6	10.6 / 10.0	14.9 / 13.0
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				2.99	3.00	3.21	2.84
COP				3.29	3.13	3.51	3.69
SEER				5.60	5.60	5.88	5.90
SCOP				3.80	3.80	3.90	3.90
Pdesign (@-10°C)			kW	2.9	4.0	4.0	5.5
Seasonal Energy Label	Cooling / Heating			A+ / A	A+ / A	A+ / A	A+ / A
Annual Energy Consumption	Cooling / Heating		kWh	313 / 1,066	425 / 1,474	446 / 1,436	563/ 1,974
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32.0 / 25.0	32.0 / 25.0	32.0 / 25.0	32 / 25
Air Flow Rate		High / Medium / Low	m^3/min	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.5	22.0 / 20.0 / 18.0	32.0 / 28.0 / 24.0
Sound Pressure	Cooling	High / Medium / Low	dBA	34 / 32 / 30	35 / 34 / 32	37 / 35 / 34	36 / 34 / 33
Sound Power	Cooling	Max	dBA	59	60	62	60
Dehumidification Rate			l/h	1.2	2.5	2.8	2.6
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
Net Weight	Body		kg	26.5	26.5	27.0	38.5
External Static Pressure		Min / Max	mmAq (Pa)	2.5 / 15 (25 / 147)	2.5 / 15 (25 / 147)	2.5 / 15 (25 / 147)	4 / 15(39 / 147)

OUTDOOR				UU18WCR.UL0	UU24WCR.U20	UU30WCR.U20	UU36WCR.U40*
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m3/min	32	50	50	58
Sound Pressure	Cooling	Nom	dBA	49	49	50	48
	Heating	Nom	dBA	52	53	54	52
Sound Power	Cooling	Max	dBA	65	65	67	68
Dimensions	W x H x D		mm	770 x 545 x 288	870 x 650 x 330	870 x 650 x 330	950 x 834 x 330
Net Weight			kg	35.9	45.0	45.0	58.0
Refrigerant	Type			R32	R32	R32	R32
	Charge		g	1,000	1,300	1,300	1,900
	Additional Charge (after 7.5m)		g/m	20	20	20	35
	GWP			675	675	675	675
	TCO_2eq			0.61	0.74	0.74	1.28
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-10 / 48	-10 / 48	-10 / 48	-15 / 48
	Heating	Min / Max	°C WB	-10 / 18	-10 / 18	-10 / 18	-18 / 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm^2	3C x 2.5	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	20	20	25
Piping Length Total		Min / Max	m	5 / 30	5 / 35	5 / 35	5 / 50
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

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Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

SINGLE SPLIT SPECIFICATION

CEILING CONCEALED DUCT

R410A

STANDARD INVERTER (R410A)

HIGH STATIC PRESSURE
- UB70 / UB85

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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3Phase

UU70W

UU85W

INDOOR				UB70.N94	UB85.N94
Capacity	Cooling	Min / Nom / Max	kW	7.6 / 19.0 / 20.9	9.2 / 23.0 / 25.3
	Heating	Min / Nom / Max	kW	9.0 / 22.4 / 24.6	10.8 / 27.0 / 29.7
Low Temperature Capacity	Heating -7°C	Max	kW	18.0	24.0
Power Input (Set)	Cooling	Nom	kW	6.69	8.19
	Heating	Nom	kW	6.4	8.31
Power Input (Indoor)		Min / Max (Nom ESP)	W	550 / 760	610 / 920
Running Current	Cooling / Heating	Nom	A	11.5 / 10.7	13.5 / 13.6
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
EER				2.84	2.81
COP				3.50	3.25
SEER				4.60	4.80
SCOP				3.53	3.51
Pdesign (@ -10°C)			kW	13.4	18.5
Seasonal Energy Label	Cooling / Heating			-	-
Annual Energy Consumption	Cooling / Heating		kWh	-	-
Piping Connection	Liquid		mm (inch)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Gas		mm (inch)	Ø25.4 (1/1)	Ø22.2 (7/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25
Air Flow Rate		High / Medium / Low	m³/min	70.0 / 65.0 / 60.0	80.0 / 72.0 / 64.0
Sound Pressure	Cooling	High / Medium / Low	dBA	43 / 41 / 40	43 / 41 / 40
Sound Power	Cooling	Max	dBA	73	75
Dehumidification Rate			l/h	1.81 (4.2)	5.14 (11.9)
Dimensions	Body	W x H x D	mm	1,563 x 460 x 688	1,563 x 460 x 688
Net Weight	Body		kg	90.0	90.0
External Static Pressure		Min / Max	mmAq (Pa)	6 / 25 (60 / 250)	6 / 25 (60 / 250)

OUTDOOR				UU70W.U34	UU85W.U74
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
Airflow Rate		Nom	m³/min	110	190
Sound Pressure	Cooling	Nom	dBA	55	59
	Heating	Nom	dBA	58	60
Sound Power	Cooling	Max	dBA	75	75
Dimensions	W x H x D		mm	950 x 1,380 x 330	1,090 x 1,625 x 380
Net Weight			kg	110	144.0
Refrigerant	Type		-	R410A	R410A
	Charge		g	5,200	5,500
	Additional Charge		g/m	70	70
	GWP		-	2087.5	2087.5
	TCO_2eq		-	10.9	11.5
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-20 / 48	-20 / 48
	Heating	Min / Max	°C WB	-18 / 18	-18 / 18
Power Supply			Ø / V / Hz	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm²	5C x 2.5	5C x 2.5
Transmission Cable			No. x mm²	4C x 1.0	4C x 1.0
Circuit Breaker			A	30	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)	Ø12.7 (1.2)
	Gas		mm (inch)	Ø25.4 (1/1)	Ø22.2 (7/8)

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5. This product contains fluorinated greenhouse gases (R32)

CEILING & FLOOR CONVERTIBLE

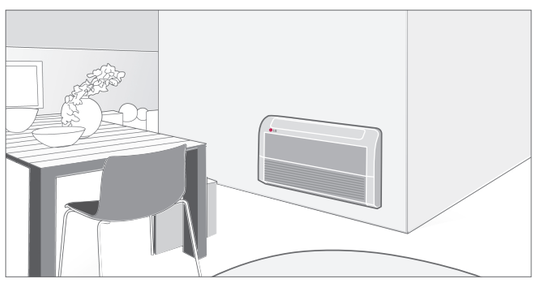
CEILING SUSPENDED UNIT

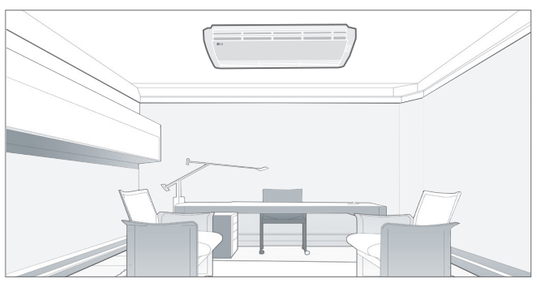
SINGLE SPLIT KEY FEATURES

CEILING & FLOOR CONVERTIBLE

Flexible Installation

The ceiling and floor models can be installed either on the ceiling or on the floor, thus saving on space while being installed in commercial premises.



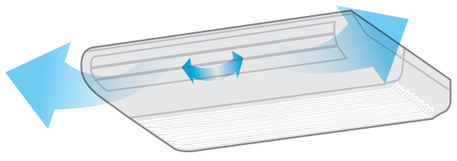


* Ceiling & Floor : CV09 NE2 / CV12 NE2

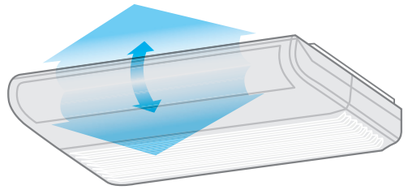
Airflow Direction Control

Vertical airflow direction can be adjusted using the remote controller, while horizontal airflow direction can be adjusted manually.

Horizontal



Vertical



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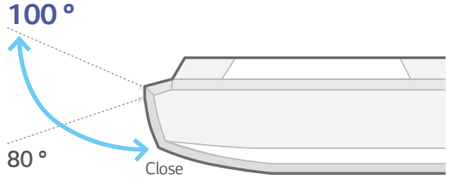
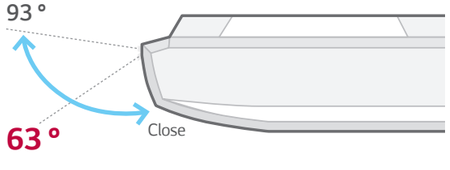


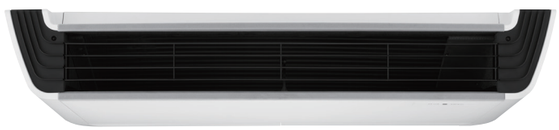
Heating



CEILING SUSPENDED UNIT

Differentiated Design

With its stunning V-shaped design and black vane, LG's new ceiling-suspended air conditioner portrays elegance and sophistication appropriate for any space. This attractive aesthetics of the air conditioner qualified it for the iF Design Award.



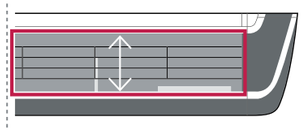
Powerful Cooling & Heating

The new LG Ceiling Suspended Unit is remarkably efficient for using in large areas due to its powerful cooling and heating operation.
The powerful air speed and high volume features enhance the flow of air to reach up to 15m away from the air conditioner.

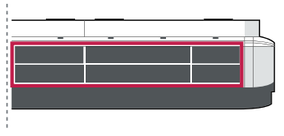
With enlarged outlet space, optimized the Air flow Path and improved Heat Exchanger's performance

• Outlet Space

Current

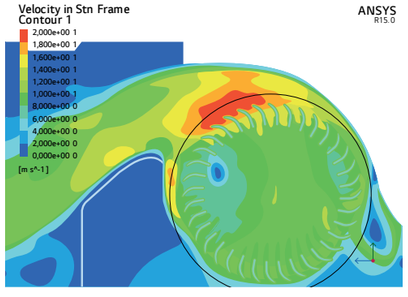


Conventional



115% ENLARGED

• Optimized the Air flow Path



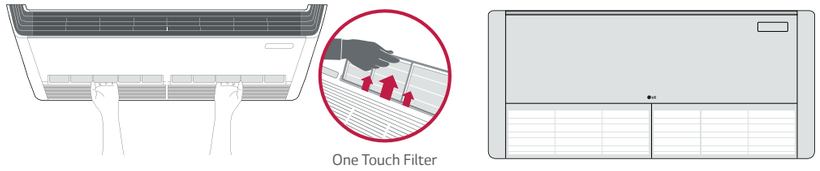
105% IMPROVED

SINGLE SPLIT KEY FEATURES

CEILING SUSPENDED UNIT

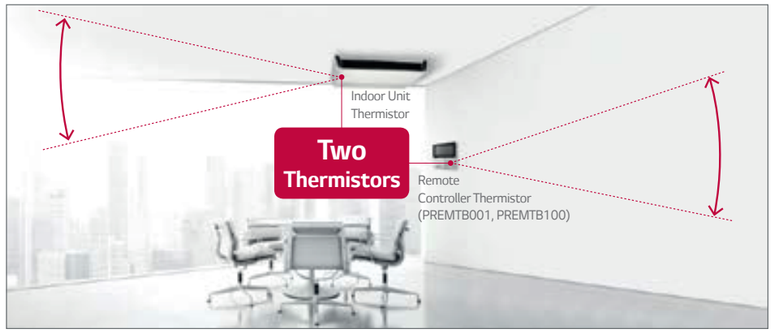
One Touch & 2 Piece Filter

Easy IN/OUT filter structure in addition to an easy-to-use two-piece filter, which slides out for easy cleaning and maintenance.



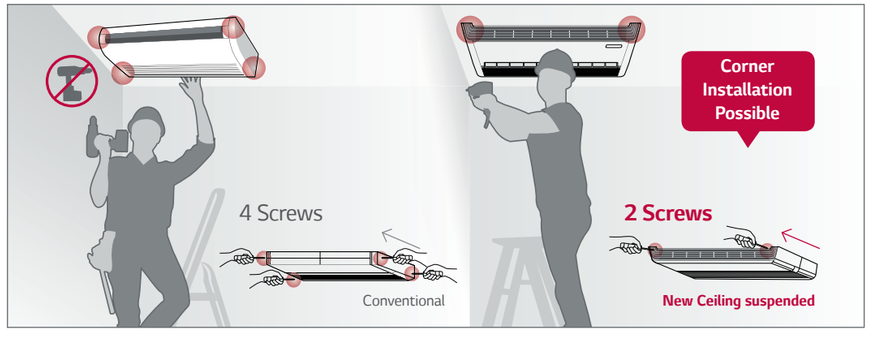
Two Thermistors Control

Users can purchase an optional control panel that includes a second thermistor that allows checking of temperature from multiple locations.



Easy 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.



SINGLE SPLIT SPECIFICATION

CEILING SUSPENDED UNIT

R32

COMMERCIAL

STANDARD INVERTER (R32)

UV18R / UV24R

UU18WR

UU24WR
UU30WR

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

LG participates in the ECP programme for EUROVENT AC program.
Check ongoing validity of certification
: www.eurovent-certification.com

INDOOR				UV18R.N10	UV24R.N10	UV30R.N10*
Capacity	Cooling	Min / Nom / Max	kW	1.9 / 5.0 / 6.0	2.8 / 6.8 / 7.5	3.0 / 7.6 / 8.4
	Heating	Min / Nom / Max	kW	2.0 / 5.2 / 6.3	3.0 / 7.5 / 8.3	3.4 / 8.2 / 9.2
Low Temperature Capacity	Heating -7°C	Max	kW	4.6	6.9	7.5
Power Input (Set)	Cooling	Nom	kW	1.38	1.97	2.30
	Heating	Nom	kW	1.52	2.20	2.52
Power Input (Indoor)		Min / Max	W	20 / 25	40 / 60	40 / 60
Running Current	Cooling / Heating	Nom	A	6.1 / 6.7	8.7 / 9.8	10.2 / 11.1
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.62	3.45	3.30
COP				3.42	3.40	3.25
SEER				6.50	7.10	6.60
SCOP				4.30	4.30	4.10
Pdesign (@-10°C)			kW	4.1	5.4	5.8
Seasonal Energy Label	Cooling / Heating			A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	269 / 1,335	335 / 1,758	403 / 2,030
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0
Air Flow Rate		High / Medium / Low	m^3/min	13.0 / 12.0 / 11.0	16.0 / 15.0 / 14.0	16.0 / 15.0 / 14.0
Sound Pressure	Cooling	High / Medium / Low	dBA	42 / 40 / 39	44 / 43 / 41	44 / 43 / 41
Sound Power	Cooling	Max	dBA	55	61	61
Dehumidification Rate			l/h	1.9	3.0	3.0
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
Net Weight	Body		kg	27.3	28.0	28.0

OUTDOOR				UU18WR.U20	UU24WR.U40	UU30WR.U40*
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m^3/min	50	58	58
Sound Pressure	Cooling	Nom	dBA	47	48	48
	Heating	Nom	dBA	52	52	52
Sound Power	Cooling	Max	dBA	63	67	68
Dimensions	W x H x D		mm	870 x 650 x 330	950 x 834 x 330	950 x 834 x 330
Net Weight			kg	44.8	56.1	58.0
Refrigerant	Type			R32	R32	
	Charge		g	1,100	1,600	1,900
	Additional Charge (after 10m)		g/m	20	35	35
	GWP			675	675	675
	TCO_2eq			0.74	1.08	1.28
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-15 / 48	-15 / 48	-15 / 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^2	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	25	25
Piping Length Total		Min / Max	m	5 / 30	5 / 50	5 / 50
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

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Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. Definition of Power Input Nominal conditions – Performance tested under EN14511
3. Capacities are based on the following conditions : Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB
Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

SINGLE SPLIT SPECIFICATION

CEILING SUSPENDED UNIT

R32

COMMERCIAL

STANDARD INVERTER (R32)

UV36R / UV42R / UV48R / UV60R

UU36WR / UU42WR
UU48WR / UU60WR

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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INDOOR				UV36R N20	UV42R.N20	UV48R.N20	UV60R.N20
Capacity	Cooling	Min / Nom / Max	kW	4.5 / 9.5 / 13.0	5.0 / 12.0 / 14.5	5.5 / 13.4 / 16.0	5.7 / 14.4 / 15.7
	Heating	Min / Nom / Max	kW	5.0 / 10.8 / 13.7	5.5 / 13.5 / 16.5	6.1 / 15.5 / 18.0	6.8 / 16.8 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	9.4	12.5	14.3	15.2
Power Input (Set)	Cooling	Nom	kW	2.30	3.65	4.15	4.90
	Heating	Nom	kW	2.75	4.00	4.90	5.55
Power Input (Indoor)		Min / Max	W	30 / 180	30 / 180	30 / 180	30 / 180
Running Current	Cooling / Heating	Nom	A	10.0 / 12.0	16.9 / 16.0	18.0 / 21.3	21.3 / 24.1
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				4.13	3.28	3.23	2.94
COP				3.93	3.37	3.16	3.03
SEER				5.62	5.5	5.51	5.45
SCOP				4.04	4.0	3.96	3.92
Pdesign (@-10°C)			kW	8.05	8.05	9.3	9.3
Seasonal Energy Label	Cooling / Heating			A+ / A+	A / A+	-	-
Annual Energy Consumption	Cooling / Heating		kWh	594 / 2,800	764 / 2,800	1,459 / 3,288	1,651 / 3,321
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0
Air Flow Rate		High / Medium / Low	m^3/min	28.0 / 24.0 / 20.0	28.0 / 24.0 / 20.0	30.0 / 25.0 / 20.0	30.0 / 25.0 / 20.0
Sound Pressure	Cooling	High / Medium / Low	dBA	46 / 43 / 40	46 / 43 / 40	48 / 44 / 40	48 / 44 / 40
Sound Power	Cooling	Max	dBA	63	63	63	63
Dehumidification Rate			l/h	3.8	5.8	6.3	7.1
Dimensions	Body	W x H x D	mm	1,600 x 690 x 235	1,600 x 690 x 235	1,600 x 690 x 235	1,600 x 690 x 235
Net Weight	Body		kg	36.5	36.5	36.5	36.5

OUTDOOR				UU36WR.U30	UU42WR.U30	UU48WR.U30	UU60WR.U30
Compressor	Type			R-Scroll	R-Scroll	R-Scroll	R-Scroll
Airflow Rate		Nom	m^3/min	110	110	110	110
Sound Pressure	Cooling	Nom	dBA	52	52	52	52
	Heating	Nom	dBA	54	54	54	54
Sound Power	Cooling	Max	dBA	66	67	68	68
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	950 x 1,380 x 330
Net Weight			kg	87.5	87.5	87.5	87.5
Refrigerant	Type			R32	R32	R32	R32
	Charge		g	3,000	3,000	3,000	3,000
	Additional Charge (after 7.5m)		g/m	40	40	40	40
	GWP			675	675	675	675
	TCO_2eq			2.03	2.03	2.03	2.03
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-15 / 48	-15 / 48	-15 / 48	-15 / 48
	Heating	Min / Max	°C WB	-27 / 18	-27 / 18	-27 / 18	-27 / 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm^2	3C x 6.0	3C x 6.0	3C x 6.0	3C x 6.0
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	40	40	40
Piping Length Total		Min / Max	m	5 / 85	5 / 85	5 / 85	5 / 85
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

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Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

STANDARD INVERTER (R32)

UV36R / UV42R / UV48R / UV60R

UU37WR / UU43WR
UU49WR / UU61WR

3Phase

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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: www.eurovent-certification.com

INDOOR				UV36R.N20	UV42R.N20	UV48R.N20	UV60R.N20
Capacity	Cooling	Min / Nom / Max	kW	4.5 / 9.5 / 13.0	5.0 / 12.0 / 14.5	5.5 / 13.4 / 16.0	5.7 / 14.4 / 15.7
	Heating	Min / Nom / Max	kW	5.0 / 10.8 / 13.7	5.5 / 13.5 / 16.5	6.1 / 15.5 / 18.0	6.8 / 16.8 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	9.4	12.5	14.3	15.2
Power Input (Set)	Cooling	Nom	kW	2.30	3.65	4.15	4.90
	Heating	Nom	kW	2.75	4.00	4.90	5.55
Power Input (Indoor)		Min / Max	W	30 / 180	30 / 180	30 / 180	30 / 180
Running Current	Cooling / Heating	Nom	A	3.3 / 4.0	5.6 / 5.3	6.0 / 7.1	7.1 / 8.0
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				4.13	3.21	3.11	2.94
COP				3.93	3.37	3.41	3.03
SEER				5.60	5.5	-	5.45
SCOP				4.00	4.0	-	3.92
Pdesign (@-10°C)			kW	8.05	8.05	-	9.3
Seasonal Energy Label	Cooling / Heating			A+ / A+	A / A+	-	-
Annual Energy Consumption	Cooling / Heating		kWh	594 / 2,800	764 / 2,800	1,459 / 3,288	1,651 / 3,321
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0
Air Flow Rate		High / Medium / Low	m^3/min	28.0 / 24.0 / 20.0	28.0 / 24.0 / 20.0	30.0 / 25.0 / 20.0	30.0 / 25.0 / 20.0
Sound Pressure	Cooling	High / Medium / Low	dBA	46 / 43 / 40	46 / 43 / 40	48 / 44 / 40	48 / 44 / 40
Sound Power	Cooling	Max	dBA	63	63	63	63
Dehumidification Rate			l/h	3.8	5.8	6.3	7.1
Dimensions	Body	W x H x D	mm	1,600 x 690 x 235	1,600 x 690 x 235	1,600 x 690 x 235	1,600 x 690 x 235
Net Weight	Body		kg	36.5	36.5	36.5	36.5

OUTDOOR				UU37WR.U30	UU43WR.U30	UU49WR.U30	UU61WR.U30
Compressor	Type			R-Scroll	R-Scroll	R-Scroll	R-Scroll
Airflow Rate		Nom	m^3/min	110	110	110	110
Sound Pressure	Cooling	Nom	dBA	52	52	52	52
	Heating	Nom	dBA	54	54	54	54
Sound Power	Cooling	Max	dBA	66	67	68	68
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	950 x 1,380 x 330
Net Weight			kg	87.5	87.5	87.5	87.5
Refrigerant	Type			R32	R32	R32	R32
	Charge		g	3,000	3,000	3,000	3,000
	Additional Charge (after 7.5m)		g/m	40	40	40	40
	GWP			675	675	675	675
	TCO_2eq			2.03	2.03	2.03	2.03
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-15 / 48	-15 / 48	-15 / 48	-15 / 48
	Heating	Min / Max	°C WB	-27 / 18	-27 / 18	-27 / 18	-27 / 18
Power Supply			Ø / V / Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm^2	5C x 2.5	5C x 2.5	5C x 2.5	5C x 2.5
Transmission Cable			No. x mm^2	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	40	20	20
Piping Length Total		Min / Max	m	5 / 85	5 / 85	5 / 85	5 / 85
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

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Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

SINGLE SPLIT SPECIFICATION

CEILING & FLOOR CONVERTIBLE

R410A

STANDARD INVERTER (R410A)

CV09
CV12

UU09W / UU12W

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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INDOOR				CV09.NE2	CV12.NE2
Capacity	Cooling	Min / Nom / Max	kW	1.0 / 2.5 / 2.8	1.3 / 3.3 / 3.6
	Heating	Min / Nom / Max	kW	1.2 / 3.0 / 3.3	1.5 / 3.8 / 4.2
Low Temperature Capacity	Heating -7°C	Max	kW	3.1	3.4
Power Input (Set)	Cooling	Nom	kW	0.75	1.09
	Heating	Nom	kW	0.83	1.18
Power Input (Indoor)		Nom	W	30	40
Running Current	Cooling / Heating	Nom	A	3.26 / 3.61	4.74 / 5.13
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.33	3.03
COP				3.61	3.22
SEER				5.11	5.31
SCOP				3.81	3.81
Pdesign (@ -10°C)			kW	3.0	3.0
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A / A	A / A
Annual Energy Consumption	Cooling / Heating		kWh	172 / 1,102	218 / 1,102
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Drain	O.D. / I.D.	mm	21.5 / 16.0	21.5 / 16.0
Air Flow Rate		High / Medium / Low	m³/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.6
Sound Pressure	Cooling	High / Medium / Low	dBA	38 / 35 / 32	40 / 36 / 31
Sound Power	Cooling	Max	dBA	52	56
Dehumidification Rate			l/h	1.2	1.2
Dimensions	Body	W x H x D	mm	900 x 490 x 200	900 x 490 x 200
Net Weight	Body		kg	13.7	13.7

OUTDOOR				UU09W.UL0	UU12W.UL0
Compressor	Type			Rotary	Rotary
Airflow Rate		Nom	m³/min	32	32
Sound Pressure	Cooling	Nom	dBA	47	47
	Heating	Nom	dBA	48	48
Sound Power	Cooling	Max	dBA	56	57
Dimensions	W x H x D		mm	770 x 540 x 245	770 x 540 x 245
Net Weight			kg	32.0	32.0
Refrigerant	Type		-	R410A	R410A
	Charge		g	1,000	1,000
	Additional Charge		g/m	20	20
	GWP		-	2,087.5	2087.5
	TCO_2eq		-	2.1	2.1
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-10 / 43	-10 / 43
	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 mm²	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	15
Piping Length Total		Min / Max	m	5 / 15	5 / 15
Piping Elevation Difference	IDU - ODU	Max	m	10	10
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)

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3. Capacities are based on the following conditions : Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB
Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

CONSOLE

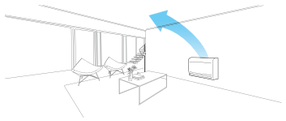
SINGLE SPLIT KEY FEATURES

CONSOLE

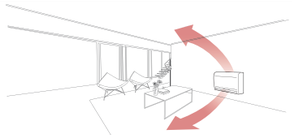
Optimised Air Flow for Cooling & Heating

During the cooling operation, the vane adjusts upwards to direct the air flow towards the ceiling.
When heating, the vane directs the warm air downwards to balance out the room temperature especially towards the floor.
It is controlled by wireless remote controller which is included indoor unit product

Cooling



Heating (Normal)



Heating (Floor Heating Mode)

Quick Floor Heating

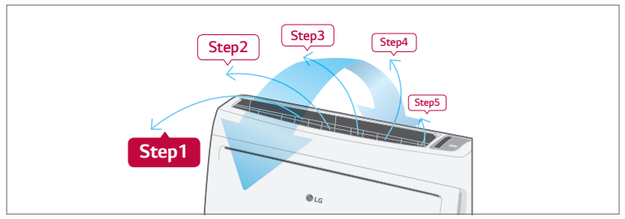
Console air conditioners portray high speed and powerful performance. Using the floor heating mode, console air conditioners provides floor heating at a faster pace and helps to reach the desired temperature quickly.

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

(Test Condition :Target Temp 23℃, Indoor Room : 13℃~ , Outdoor Room : 7℃)

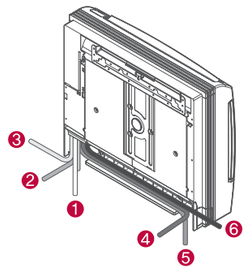
5-Step Vane Control

There are 5 different stages to control air flow direction.

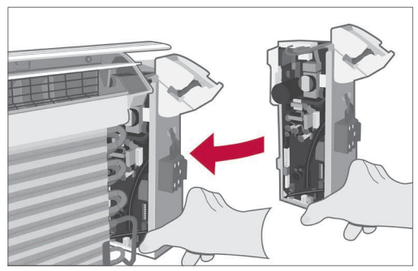


Easy Installation and Service

6 Different Ways to Install Piping



Easy Slide-type PCB



SINGLE SPLIT SPECIFICATION

CONSOLE

R410A

COMMERCIAL

STANDARD INVERTER (R410A)

CQ09
CQ12
CQ18

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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Check ongoing validity of certification
: www.eurovent-certification.com

UU09W
UU12W

UU18W

INDOOR				CQ09.NA0	CQ12.NA0	CQ18.NA0
Capacity	Cooling	Min / Nom / Max	kW	1.3 / 2.6 / 3.4	1.4 / 3.5 / 3.7	2.2 / 5.0 / 5.6
	Heating	Min / Nom / Max	kW	1.4 / 3.1 / 4.2	1.6 / 4.0 / 4.4	2.2 / 4.8 / 5.8
Low Temperature Capacity	Heating -7℃	Max	kW	3.4	3.6	4.9
Power Input (Set)	Cooling	Nom	kW	0.64	1.06	1.55
	Heating	Nom	kW	0.74	1.08	1.50
Power Input (Indoor)		Nom	W	20	30	40
Running Current	Cooling / Heating	Nom	A	3.42 / 3.87	5.02 / 5.03	7.0 / 6.9
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.98	3.30	3.23
COP				4.19	3.70	3.20
SEER				5.11	5.31	6.2
SCOP				3.81	3.81	3.81
Pdesign (@ -10℃)			kW	2.8	3.0	3.8
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A / A	A / A	A++ / A
Annual Energy Consumption	Cooling / Heating		kWh	172 / 1,032	231 / 1,105	282 / 1,396
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)	Ø12.7 (1/2)
	Drain	O.D. / I.D.	mm	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0
Air Flow Rate		High / Medium / Low	m³/min	8.5 / 6.7 / 5.0	9.0 / 6.9 / 5.2	10.1 / 8.6 / 7.2
Sound Pressure	Cooling	High / Medium / Low	dBA	38 / 32 / 27	39 / 32 / 27	44 / 39 / 35
Sound Power	Cooling	Max	dBA	53	56	60
Dehumidification Rate			l/h	1.2	1.4	2.3
Dimensions	Body	W x H x D	mm	700 × 600 × 210	700 × 600 × 210	700 × 600 × 210
Net Weight	Body		kg	14.0	14.0	14.0

OUTDOOR				UU09W.UL0	UU12W.UL0	UU18W.UE4
Compressor	Type			Rotary	Rotary	Twin Rotary
Airflow Rate		Nom	m³/min	32	32	50
Sound Pressure	Cooling	Nom	dBA	47	47	47
	Heating	Nom	dBA	48	48	52
Sound Power	Cooling	Max	dBA	56	57	63
Dimensions	W x H x D		mm	770 x 540 x 245	770 x 540 x 245	870 x 655 x 320
Net Weight			kg	32.0	32.0	44.6
Refrigerant	Type		-	R410A	R410A	R410A
	Charge		g	1,000	1,000	1,300
	Additional Charge		g/m	20	20	20
	GWP		-	2,087.5	2087.5	2087.5
	TCO_2eq		-	2.1	2.1	2.7
Operation Range (Outdoor)	Cooling	Min / Max	℃ DB	-10 / 43	-10 / 43	-15 / 48
	Heating	Min / Max	℃ 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 mm²	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	15	20
Piping Length Total		Min / Max	m	5 / 15	5 / 15	5 / 30
Piping Elevation Difference	IDU - ODU	Max	m	10	10	30
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)	Ø12.7 (1/2)

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Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. Definition of Power Input Nominal conditions – Performance tested under EN14511
3. Capacities are based on the following conditions : Cooling : - Indoor Temperature 27℃ DB / 19℃ WB - Outdoor Temperature 35℃ DB / 24℃ WB
Heating : - Indoor Temperature 20℃ DB / 15℃ WB - Outdoor Temperature 7℃ DB / 6℃ WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R32)

FLOOR STANDING UNIT

SINGLE SPLIT KEY FEATURES

FLOOR STANDING UNIT

Stylish Design

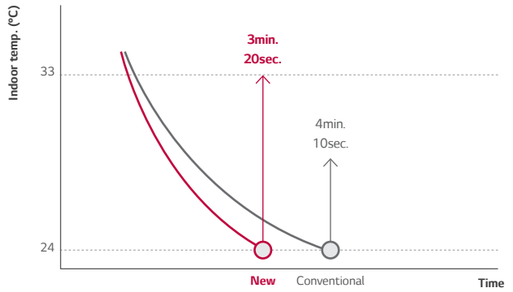
The new LG floor standing air conditioner which is Red Dot design award winner 2013, is ideal for modern interiors in your home or office.

reddot design award
winner 2013

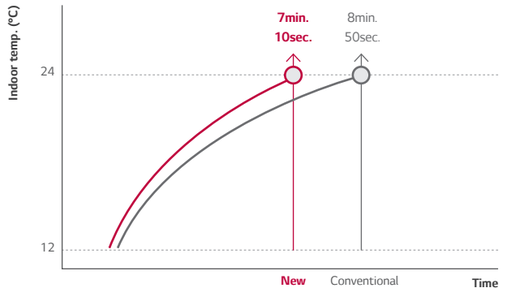
Quick Response

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

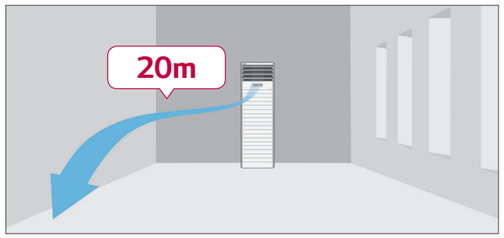


Heating



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.



FLOOR STANDING UNIT

R410A

STANDARD INVERTER (R410A)

UP48

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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UU48W

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	dBA	52 / 49 / 45
Sound Power	Cooling	Max	dBA	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
Compressor	Type			Twin Rotary
Airflow Rate		Nom	m³/min	110
Sound Pressure	Cooling	Nom	dBA	52
	Heating	Nom	dBA	54
Sound Power	Cooling	Max	dBA	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_2eq		-	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 mm²	3C x 5.0
Transmission Cable			No. x mm²	4C x 0.75
Circuit Breaker			A	40
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)

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Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R410A)

STANDARD INVERTER (R410A)

UP49

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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Check ongoing validity of certification
: www.eurovent-certification.com

3Phase

UU49W

INDOOR				UP49.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	5.76 / 6.20
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	dBA	52 / 49 / 45
Sound Power	Cooling	Max	dBA	59
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				UU49W.U32
Compressor	Type			Twin Rotary
Airflow Rate		Nom	m³/min	110
Sound Pressure	Cooling	Nom	dBA	52
	Heating	Nom	dBA	54
Sound Power	Cooling	Max	dBA	68
Dimensions	W x H x D		mm	950 x 1,380 x 330
Net Weight			kg	96.0
Refrigerant	Type		-	R410A
	Charge		g	3,400
	Additional Charge		g/m	40
	GWP		-	2087.5
	TCO_2eq		-	7.1
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-15 / 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 5.0
Transmission Cable			No. x mm²	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)

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Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R410A)

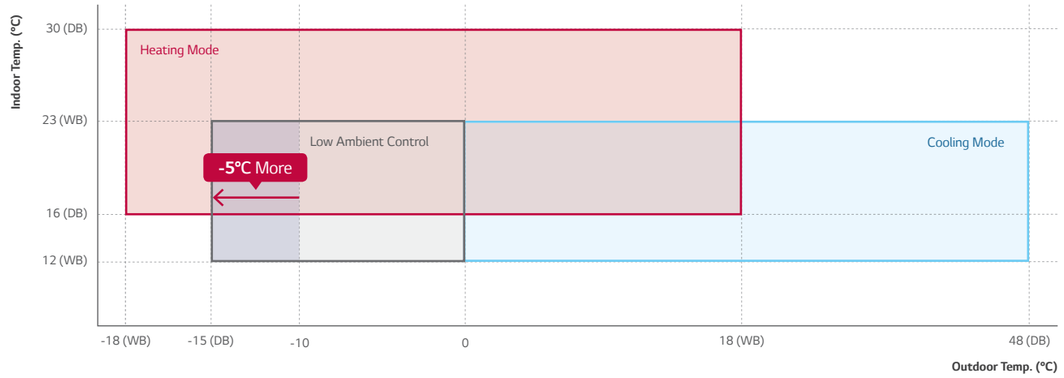
WALL MOUNTED UNIT

SINGLE SPLIT KEY FEATURES

WALL MOUNTED UNIT

Wide Operation Range

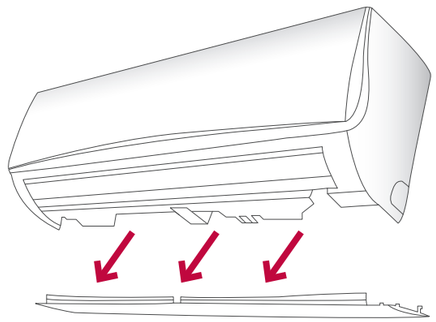
Ideal and comprehensive solution for server rooms, machine rooms and kitchens.



Easy Installation

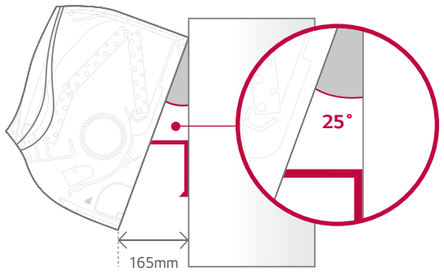
Detachable Bottom Cover

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.



Installation Support Clip

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



SINGLE SPLIT KEY FEATURES

WALL MOUNTED UNIT

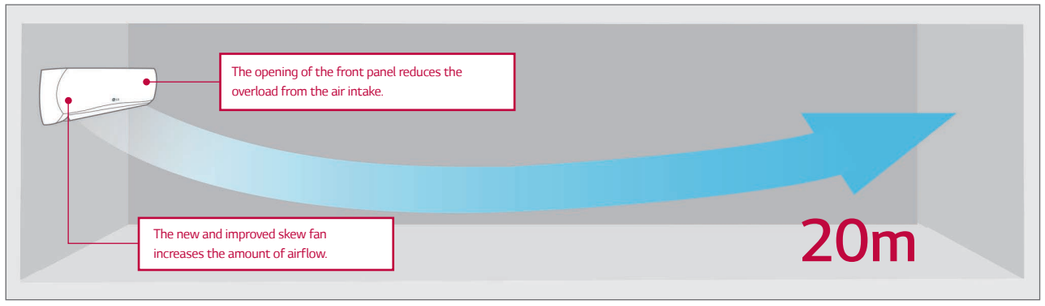
High Energy Efficiency

New wall mounted units provide good seasonal energy efficiency connected with Standard Inverter outdoor units.

	8.0kW	10kW
SEER	6.1 (A++)	5.4 (A)
SCOP	3.9 (A)	3.8 (A)

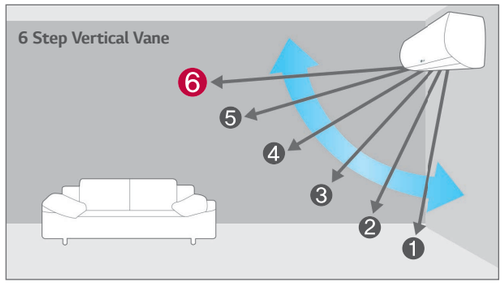
Powerful Cooling & Heating

20m Windblast



Optimised Airflow

Direction of horizontal vane can be adjusted from step 1 to step 6 with full auto swing. This function can cool and heat specific areas much faster.



Quick Cooling & Heating

Jet cooling and heating disperses air evenly at high speed to secure an optimally cooled or heated room in just 3 minutes.

SINGLE SPLIT SPECIFICATION

WALL MOUNTED UNIT

R410A

COMMERCIAL

STANDARD INVERTER (R410A)

UJ30 / UJ36

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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UU30W

UU36W
UU37W

INDOOR				UJ30.NV2	UJ36.NV3	UJ36.NV3
Capacity	Cooling	Min / Nom / Max	kW	3.5 / 7.8 / 8.5	4.0 / 9.5 / 10.5	4.0 / 9.5 / 10.5
	Heating	Min / Nom / Max	kW	4.0 / 8.4 / 9.2	4.4 / 10.5 / 11.5	4.4 / 10.5 / 11.5
Low Temperature Capacity	Heating -7°C	Max	kW	7.5	9.4	9.4
Power Input (Set)	Cooling	Nom	kW	2.29	2.79	2.79
	Heating	Nom	kW	2.46	3.08	3.08
Power Input (Indoor)		Nom	W	140	160	160
Running Current	Cooling / Heating	Nom	A	10.0 / 10.7	12.1 / 13.4	4.0 / 4.4
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.41	3.41	3.41
COP				3.41	3.41	3.41
SEER				6.11	5.41	5.41
SCOP				3.91	3.81	3.81
Pdesign (@ -10°C)			kW	6.3	7.6	7.6
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A++ / A	A / A	A / A
Annual Energy Consumption	Cooling / Heating		kWh	448 / 2,262	615 / 2,793	615 / 2,793
Piping Connection	Liquid		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain	O.D. / I.D.	mm	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0
Air Flow Rate		High / Medium / Low	m³/min	22.0 / 19.0 / 16.0	27.0 / 24.0 / 20.0	27.0 / 24.0 / 20.0
Sound Pressure	Cooling	High / Medium / Low	dBA	45 / 42 / 40	48 / 45 / 41	48 / 45 / 41
Sound Power	Cooling	Max	dBA	61	63	63
Dehumidification Rate			l/h	3.0	3.4	3.4
Dimensions	Body	W x H x D	mm	1,190 x 346 x 265	1,190 × 346 × 265	1,190 × 346 × 265
Net Weight	Body		kg	15.7	16.0	16.0

OUTDOOR				UU30W.U44	UU36W.UO2	UU37W.UO2
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m³/min	58	90	90
Sound Pressure	Cooling	Nom	dBA	48	53	53
	Heating	Nom	dBA	52	54	54
Sound Power	Cooling	Max	dBA	68	66	66
Dimensions	W x H x D		mm	950 x 834 x 330	950 x 1,170 x 330	950 x 1,170 x 330
Net Weight			kg	58.0	81.0	85.0
Refrigerant	Type		-	R410A	R410A	R410A
	Charge		g	2,000	2,800	2,800
	Additional Charge		g/m	40	40	40
	GWP		-	2087.5	2087.5	2087.5
	TCO_2eq		-	4.2	5.8	5.8
Operation Range (Outdoor)	Cooling	Min / Max	°C DB	-15 / 48	-15 / 48	-15 / 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	3 / 380-415 / 50
Power Supply Cable			No. x mm²	3C x 2.5	3C x 5.0	5C x 2.5
Transmission Cable			No. x mm²	3C x 2.5	4C x 0.75	4C x 0.75
Circuit Breaker			A	4C x 0.75	40	20
Piping Length Total		Min / Max	m	25	5 / 50	5 / 50
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30
Piping Connection	Liquid		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)

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3. Capacities are based on the following conditions : Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB
Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition
5. This product contains fluorinated greenhouse gases (R410A)

AHU SOLUTION

SINGLE SPLIT AHU SOLUTION

AHU COMBINATION

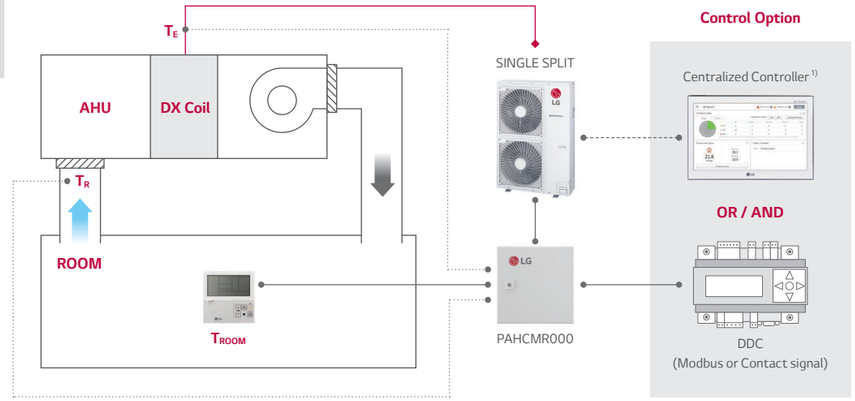
Air Handling Applications

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

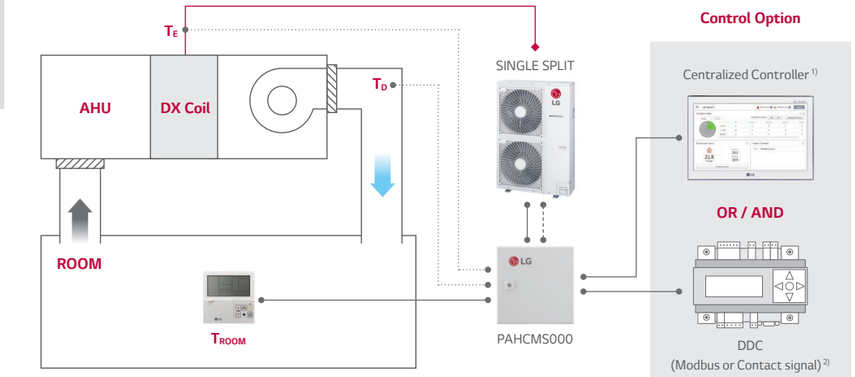
T_E = Evaporator Temperature (Liquid Pipe / Gas Pipe)
T_R = Return Air Temperature
T_{ROOM} = Room Air Temperature



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

SINGLE SPLIT AHU SOLUTION

AHU COMMUNICATION KITS

COMMUNICATION KIT

NEW! PAHCMR000
NEW! PAHCMS000

Specifications

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 [1)]	Cooling / Heating	Cooling / Heating	
	Return (room) Air Temperature	16~30°C	-	
	Discharge Air Temperature [2)]	-	16~30°C	Available in case of using DDC with Modbus or LG Control system
	Fan Speed [3)]	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
	Capacity Control	-	•	Available in case of using DDC with Modbus or contact signal
Monitor	Comm. Kit Operation	On / Off	On / Off	
	Operation Mode [1)]	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

STANDARD INVERTER (1-phase)

			UU18WR.U20	UU24WR.U40	UU30WR.U40	UU36WR.U30	UU42WR.U30	UU48WR.U30	UU60WR.U30
Capacity	Cooling	kW	4.7	7.7	8.0	10.0	12.5	13.9	14.6
	Heating	kW	5.5	8.0	9.0	11.0	14.0	15.4	16.9
AHU Kit	PAHCMR000		•	•	•	•	•	•	•
	PAHCMS000		•	•	•	-	-	-	-

STANDARD INVERTER (3-phase)

			UU37WR.U30	UU43WR.U30	UU49WR.U30	UU61WR.U30	UU70W.U34	UU85W.U74
Capacity	Cooling	kW	10.0	12.5	13.9	14.6	19.0	23.0
	Heating	kW	11.0	14.0	15.4	16.9	22.4	27.0
AHU Kit	PAHCMR000		•	•	•	•	•	•
	PAHCMS000		-	-	-	-	•	•

ACCESSORIES

LG Wi-Fi MODEM

Control LG air conditioners via using the internet devices as Android or iOS bases smartphones

PWFMDD200

Features

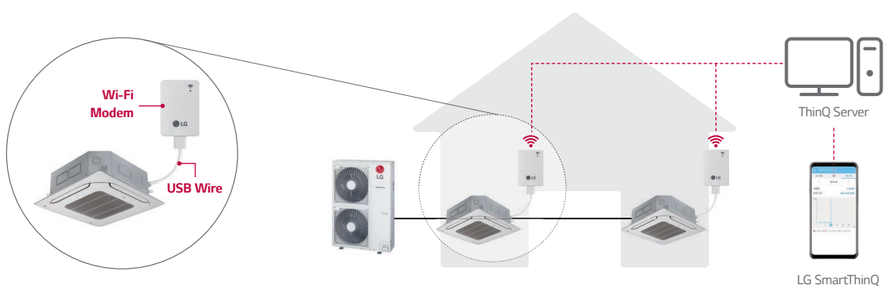
- Access LG air conditioner anytime and from anywhere with Wi-Fi equipped device
- LG's exclusive Home Appliances control app(SmartThinQ) is available
- Simple operation for various functions
  - On/Off
  - Fan Speed
  - Energy Monitoring [1)]
  - Operation Mode
  - Vane Control [2)]
  - Filter Management
  - Current/Set Temperature
  - Reservation (Sleep, Weekly On/Off)
  - Error check

MODEL NAME	PWFMDD200
Size (W x H x D, mm)	48 x 68 x 14
Interfaceable Products	Single Indoor unit [3)]
Connection Type	Indoor unit 1:1
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b/g/n
Mobile Application	LG Smart ThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or higher)
Optional Extension Cable	PWYREW000 (10m extension)

* Functionality may be different according to each IDU model
* User interface of application shall be revised for its design and contents improvement
* Application is optimized for smartphone use, so it may not be well functioning with tablet devices
1) LG Centralized controller and PDI installation is required for this function
2) Vane Control may not be possible according to the type of Indoor unit
3) For the compatibility with Indoor unit, please contact regional office

Download on the App Store | GET IT ON Google Play

Overview



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

ACCESSORIES

Standard Wired Remote Controller

Standard III

PREMTB100

PREMTBB10

Standard II

PREMTB001

PREMTBB01

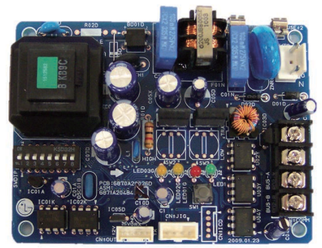
Model Name	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01
Operation Mode	On/Off, Fan Speed Control, Temperature Setting	
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	
Auto Swing / Vane Control	•	•
Reservation	Simple / Sleep / On, Off / Weekly / Holiday	
Time Display	•	•
Electrical Failure Compensation	•	•
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

PQWRHQ0FDB

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

PDRYCB300

PDRYCB500

* Refer to each product PDB for applicable models

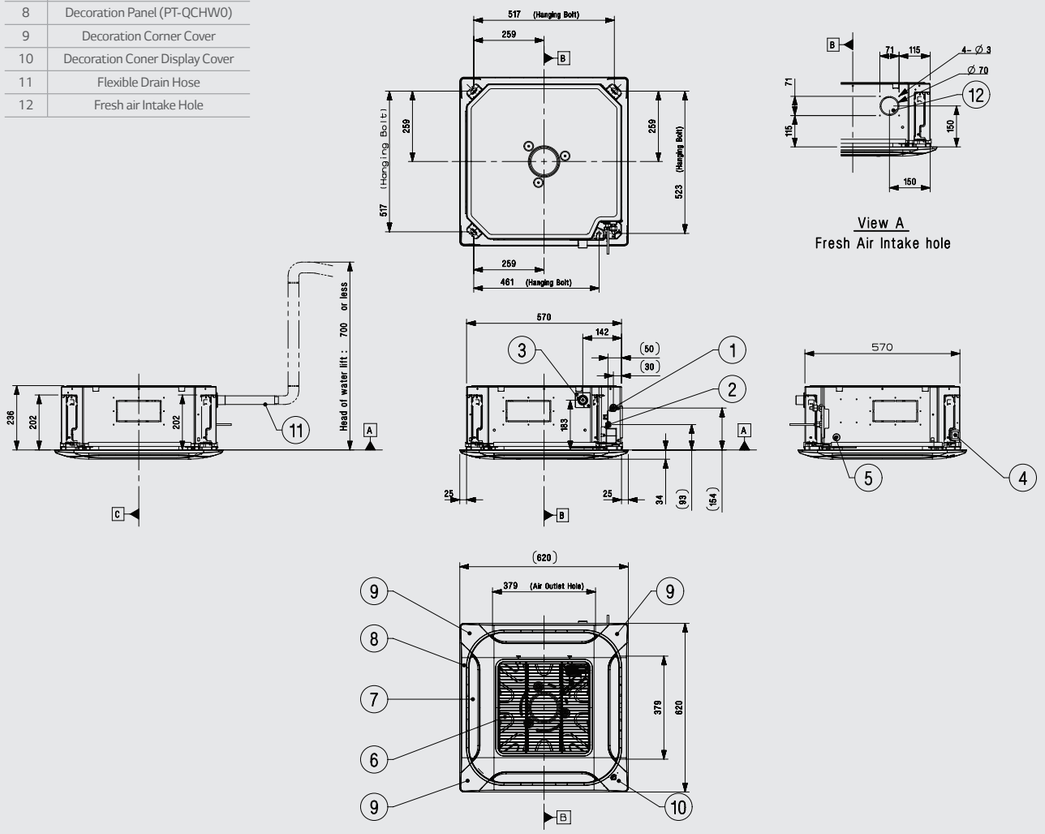
MODEL	PDRYCB000	PDRYCB400	PDRYCB300	PDRYCB500
Contact Point	1 Control Point	2 Control Point	8 Control Point	Modbus RTU
Power Input	AC 220V from outside power source	DC 5V & 12V from indoor unit PCB	DC 5V & 12V from indoor unit PCB	DC 5V & 12 V from indoor unit PDB
Voltage / Non Voltage Input		•	•	
On / Off Control	•	•	•	•
Lock / Unlock	•	•	•	
Fan Speed Setting			•	•
Thermo Off		•	•	
Energy Saving		•		
Temperature Setting		•	•	•
Error Monitoring	•	•	•	•
Operation Monitoring	•	•	•	•

CEILING CASSETTE

CT09R.NR0 / CT12R.NR0

(Unit : mm)

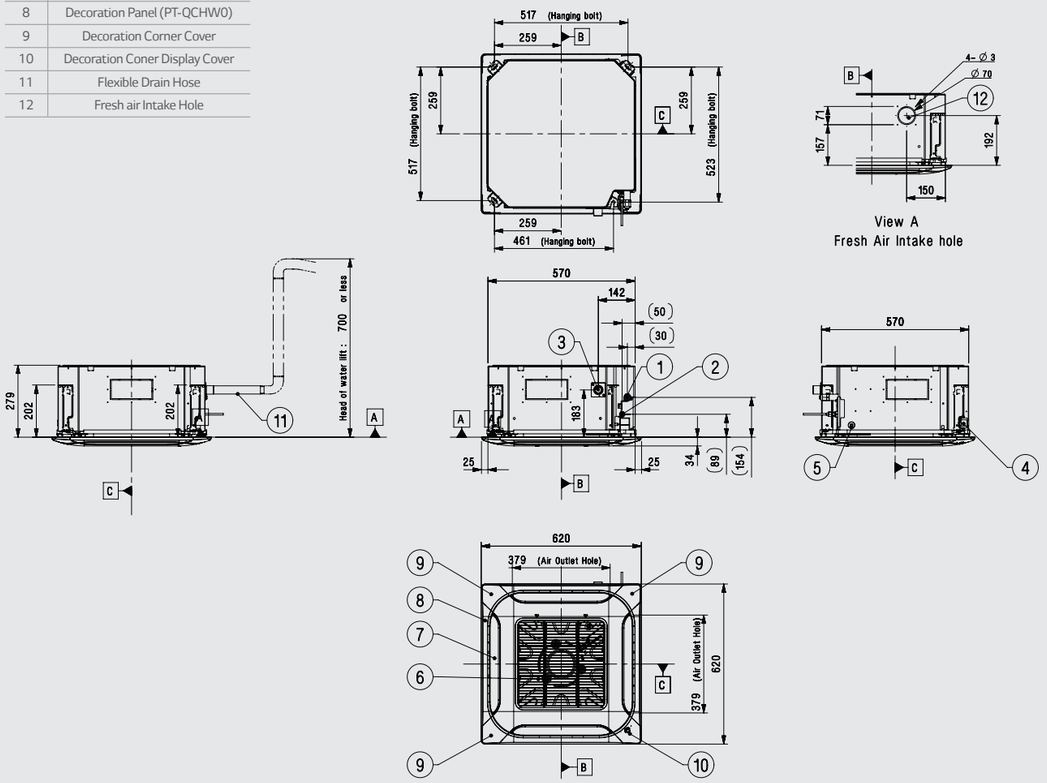
	Part Name
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication cable routing hole
5	Wired remote controller wire routing hole
6	Air Intake
7	Air Outlet
8	Decoration Panel (PT-QCHW0)
9	Decoration Corner Cover
10	Decoration Coner Display Cover
11	Flexible Drain Hose
12	Fresh air Intake Hole



CT18R.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 Intake
7	Air Outlet
8	Decoration Panel (PT-QCHW0)
9	Decoration Corner Cover
10	Decoration Coner Display Cover
11	Flexible Drain Hose
12	Fresh air Intake Hole

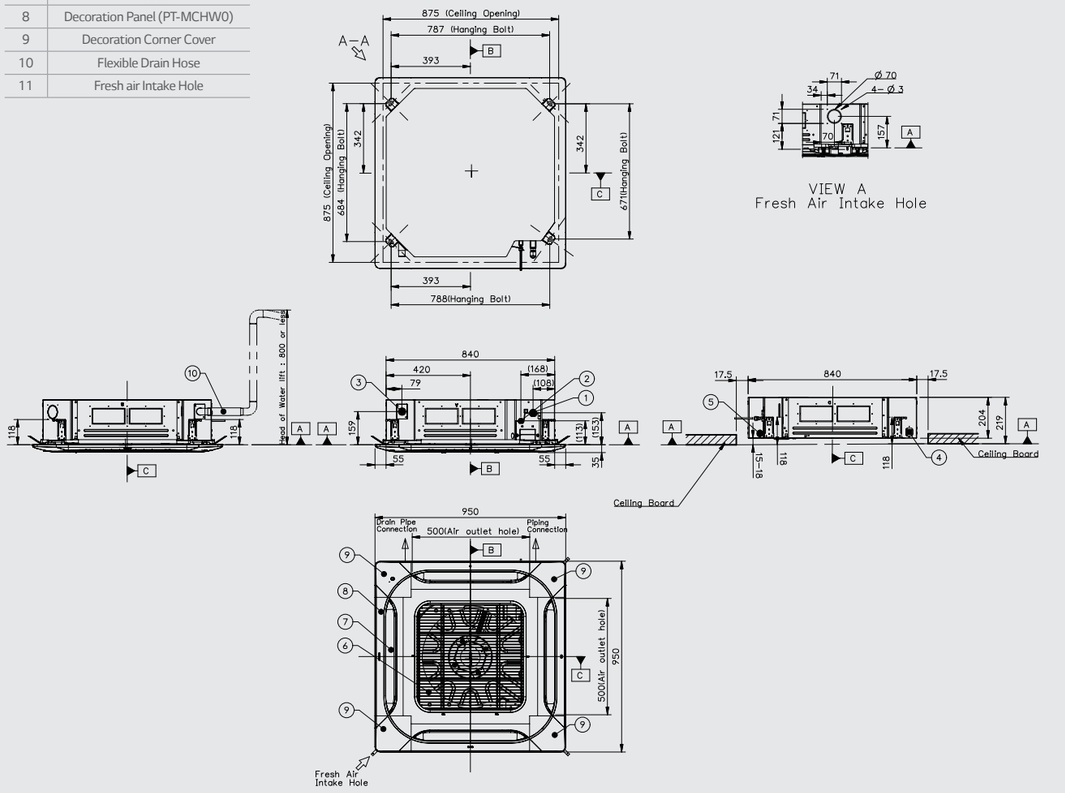


CEILING CASSETTE

CT24R.NP0

(Unit : mm)

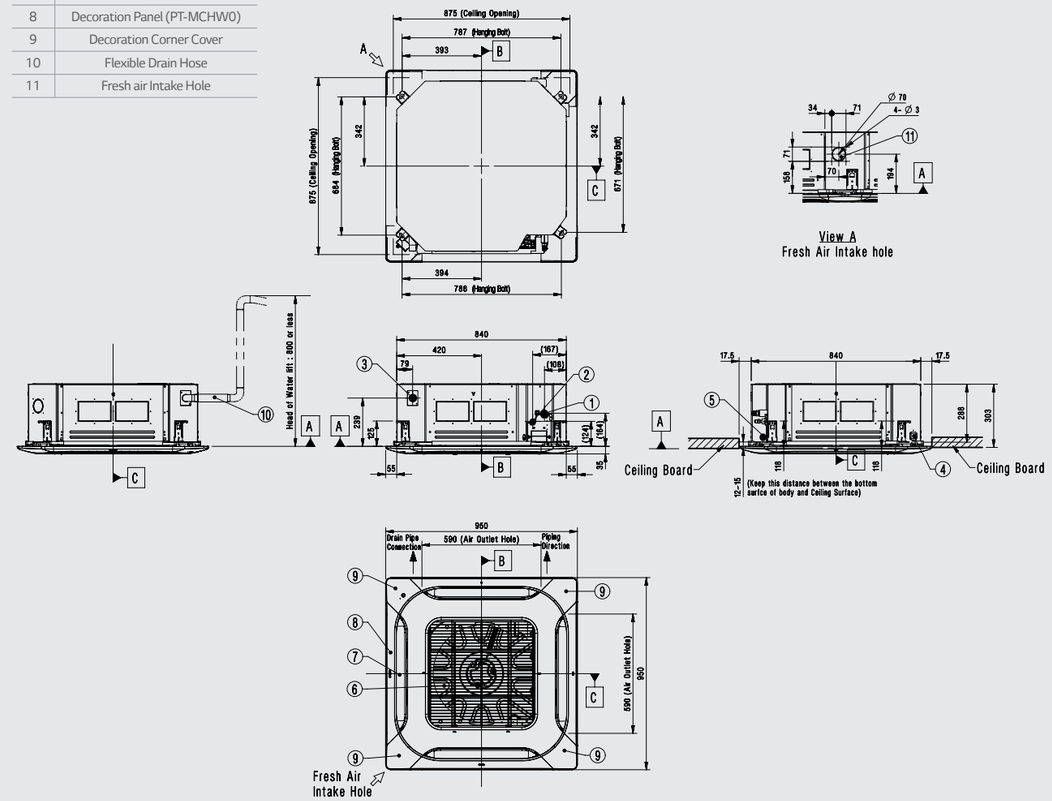
	Part Name
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication cable routing hole
5	Wired remote controller wire routing hole
6	Air Inlet
7	Air Outlet
8	Decoration Panel (PT-MCHW0)
9	Decoration Corner Cover
10	Flexible Drain Hose
11	Fresh air Intake Hole



UT36R.NM0 / UT42R.NM0 / UT48R.NM0 / UT60R.NM0

(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 (PT-MCHW0)
9	Decoration Corner Cover
10	Flexible Drain Hose
11	Fresh air Intake Hole

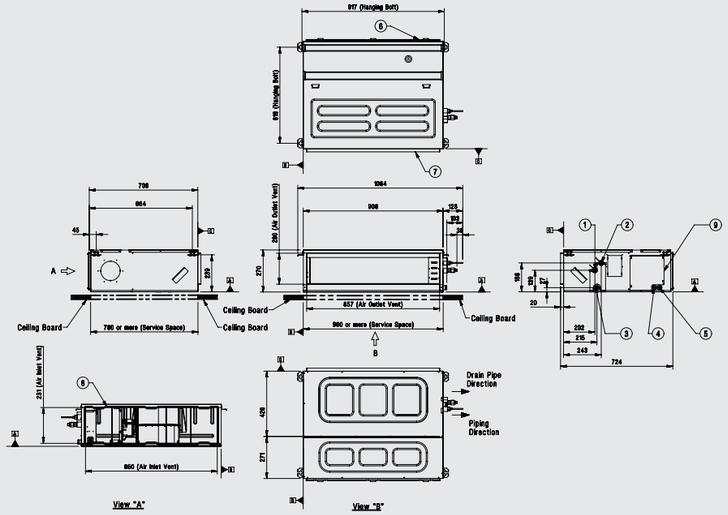


CEILING CONCEALED DUCT

CM18R.N10 / CM24R.N10

(Unit : mm)

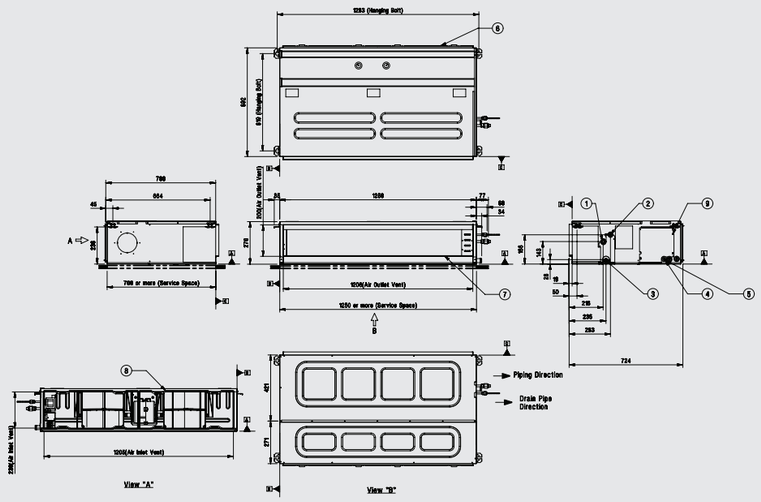
	Part Name
1	Gas pipe connection
2	Liquid pipe connection
3	Drain pipe connection
4	Power and Communication Cable Ruting Hole
5	Wired Remote Controller Wire Routing Hole
6	Air Inlet Vent
7	Air Outlet Vent
8	Air Filter
9	Control Cover



UM36R.N20 / UM42R.N20

(Unit : mm)

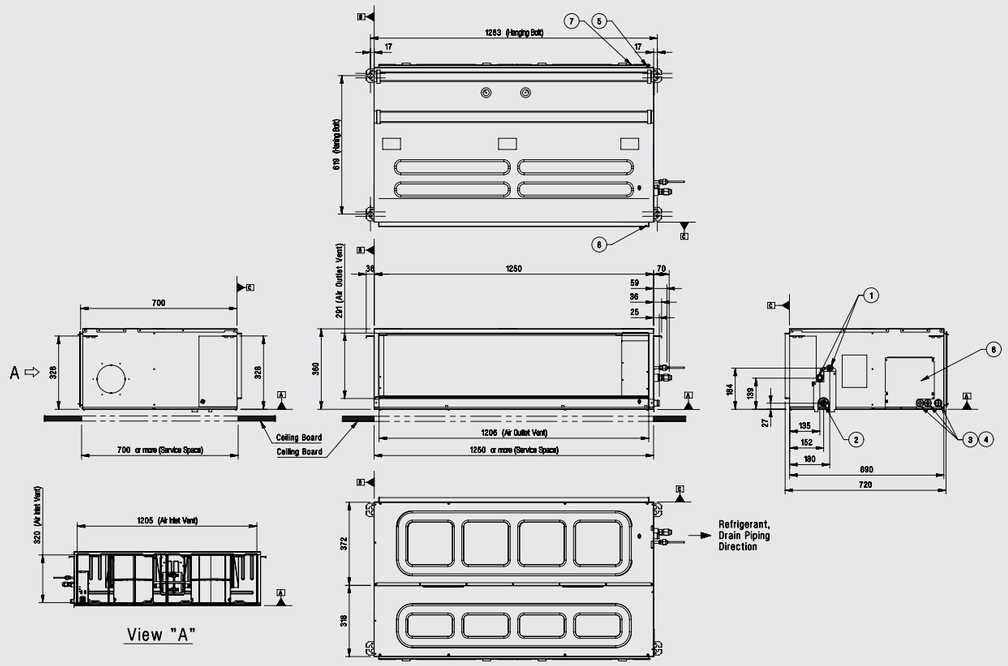
	Part Name
1	Gas pipe connection
2	Liquid pipe connection
3	Drain pipe connection
4	Power and Communication Cable Routing Hole
5	Remote Controller Cable Hole
6	Air Inlet
7	Air Outlet
8	Air Filter
9	Control Cover



UM48R.N30 / UM60R.N30

(Unit : mm)

	Part Name
1	Refrigerant pipe connection
2	Drain pipe connection
3	Power and communication Cable Hole
4	Remote Controller Cable Hole
5	Air Inlet
6	Air Outlet
7	Air Filters
8	Control Cover



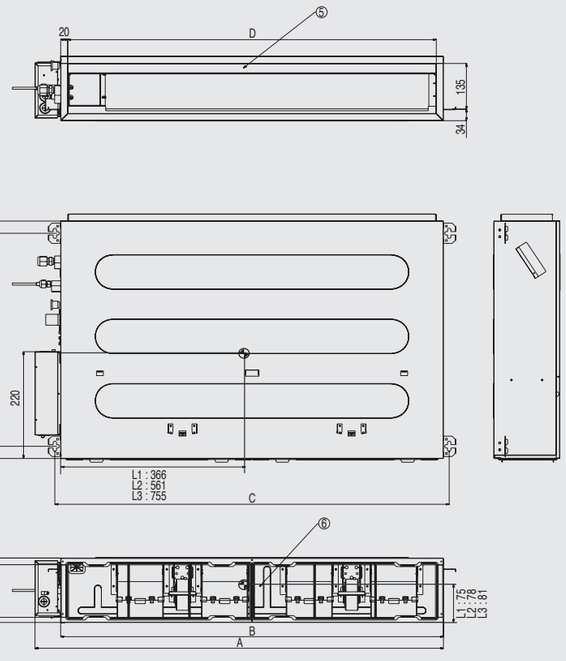
CEILING CONCEALED DUCT

CL09R.N20 / CL12R.N20 / CL18R.N20 / CL24R.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

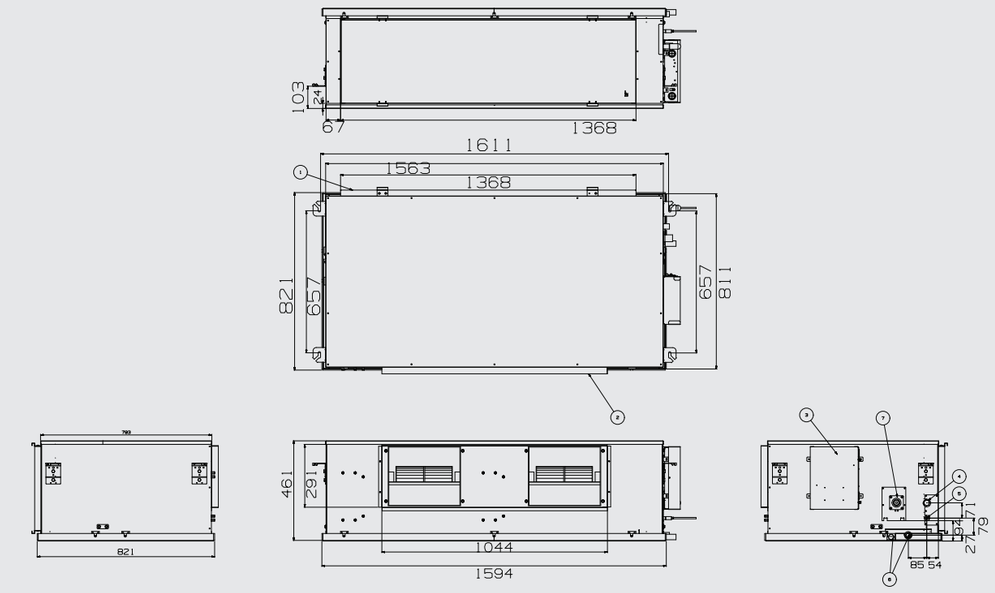
Chassis	A	B	C	D
CB09L	774	700	733	660
CB12L CB18L CL09R CL12R CL18R	974	900	933	860
CB24L CL24R	1,174	1,100	1,133	1,060



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)

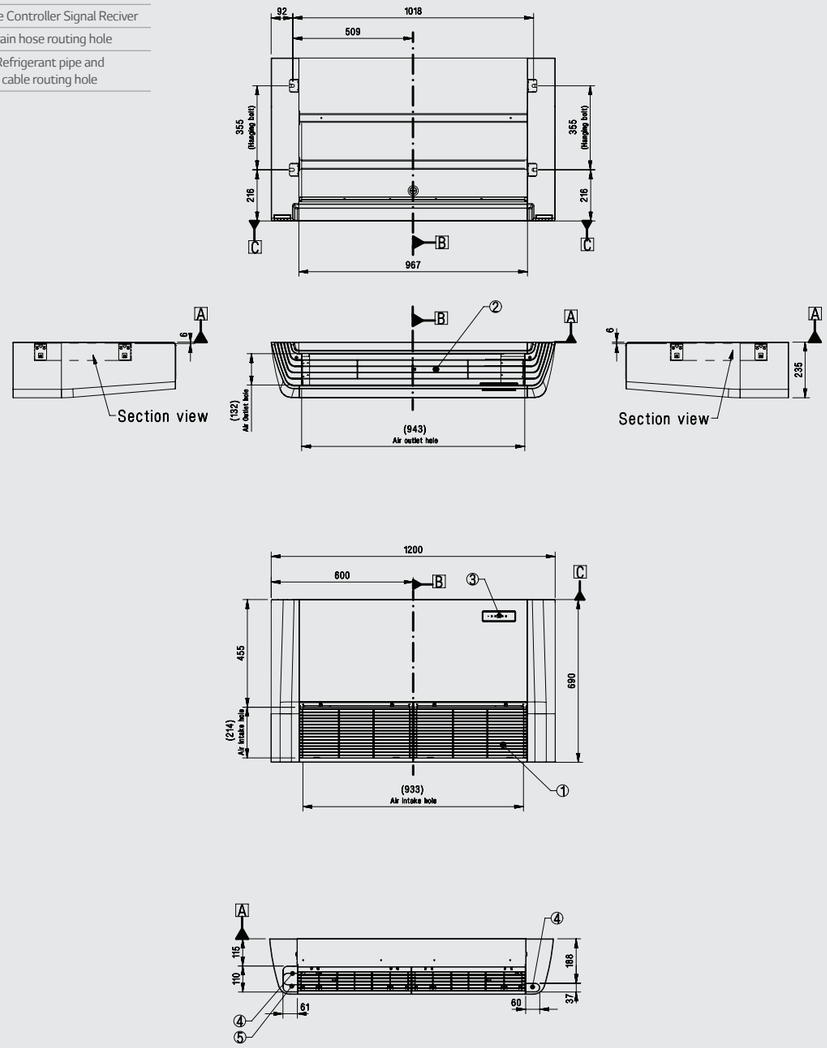


CEILING SUSPENDED UNIT

UV18R.N10 / UV24R.N10

(Unit : mm)

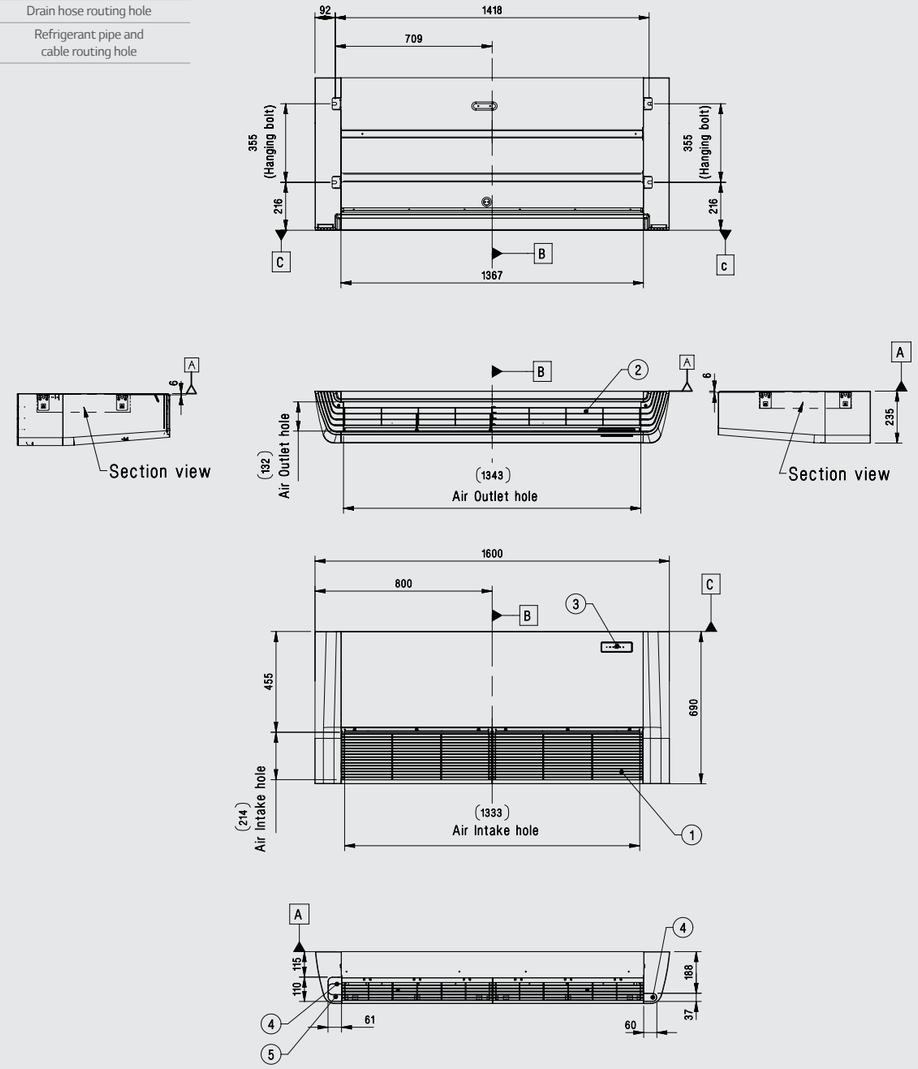
	Part Name
1	Air Intake
2	Air Outlet
3	Remote Controller Signal Reciver
4	Drain hose routing hole
5	Refrigerant pipe and cable routing hole



UV36R.N20 / UV42R.N20 / UV48R.N20 / UV60R.N20

(Unit : mm)

	Part Name
1	Air Intake
2	Air Outlet
3	Remote Controller Signal Reciver
4	Drain hose routing hole
5	Refrigerant pipe and cable routing hole

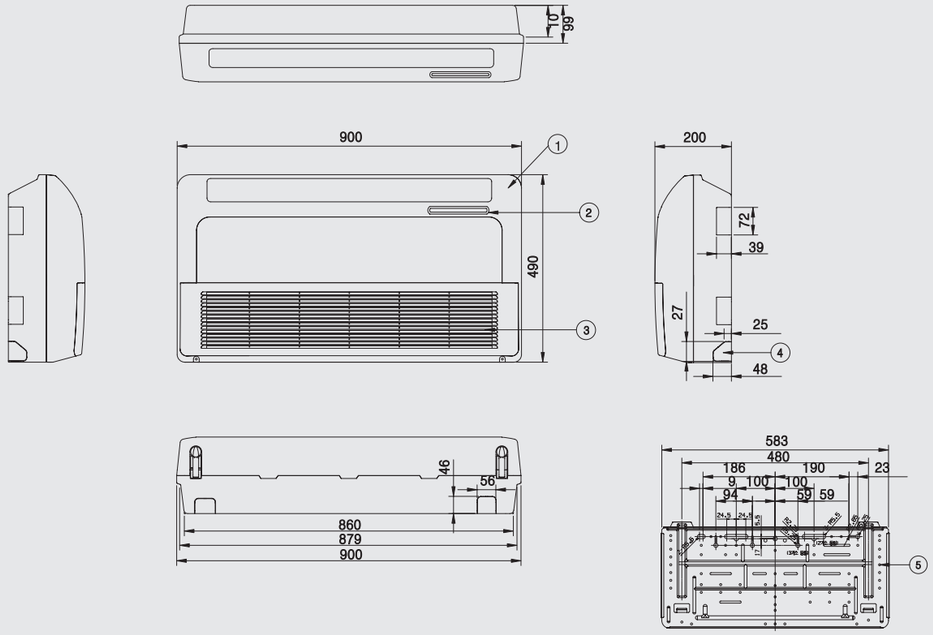


CEILING & FLOOR CONVERTIBLE

CV09.NE2 / CV12.NE2

(Unit : mm)

	Part Name
1	Front air discharge grille
2	Display & Single receiver
3	Air suction grille
4	Knockout hole
5	Installation plate

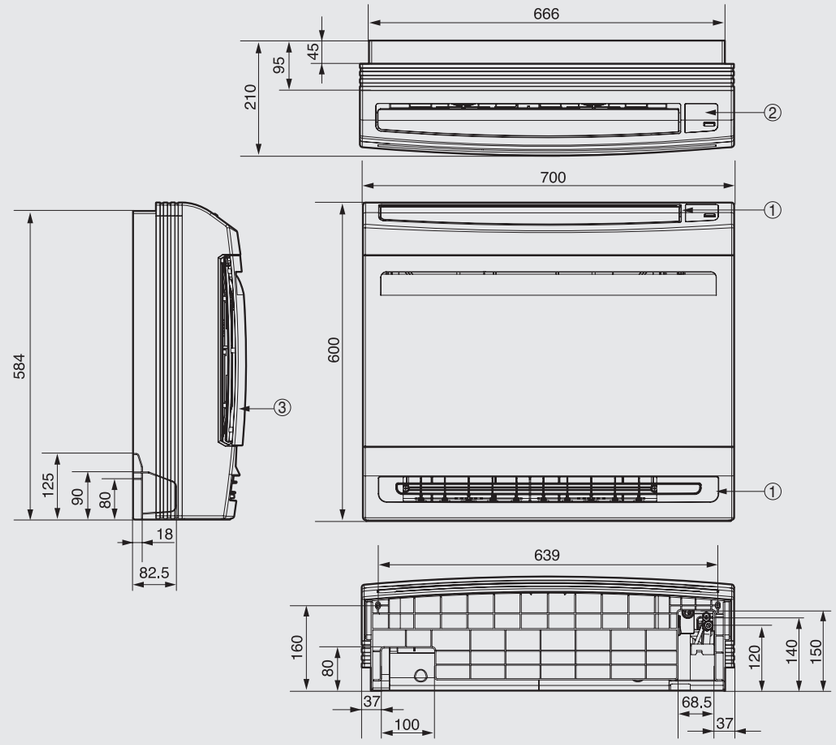


CONSOLE

CQ09.NA0 / CQ12.NA0 / CQ18.NA0

(Unit : mm)

	Part Name
1	Front air discharge grille
2	Display & Single receiver
3	Air suction grille

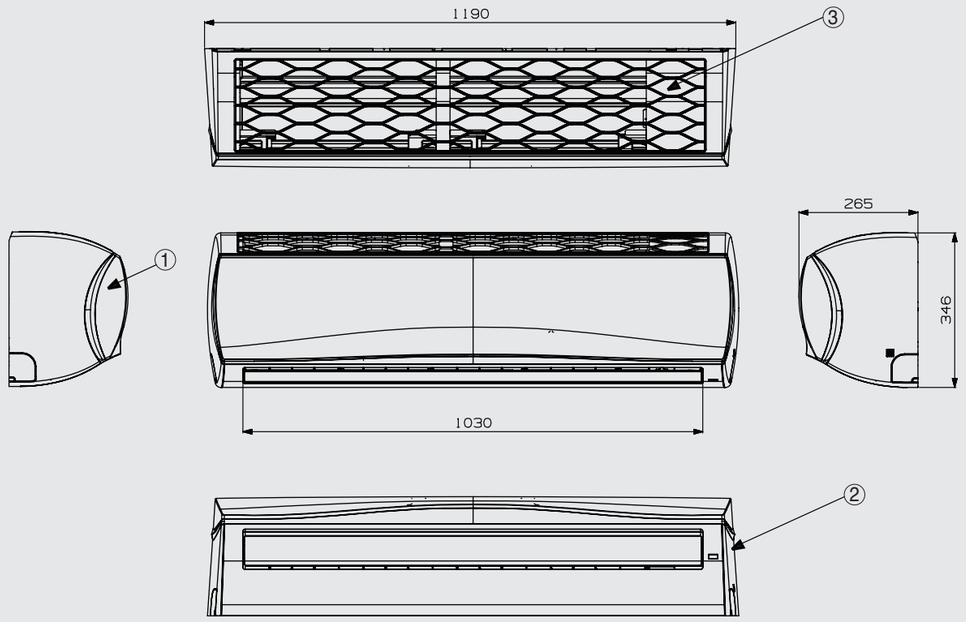


WALL MOUNTED

UJ30.NV2 / UJ36.NV3

(Unit : mm)

	Part Name
1	Front Panel
2	Display & Signal Receiver
3	Air Suction Grille
4	Installation Plate

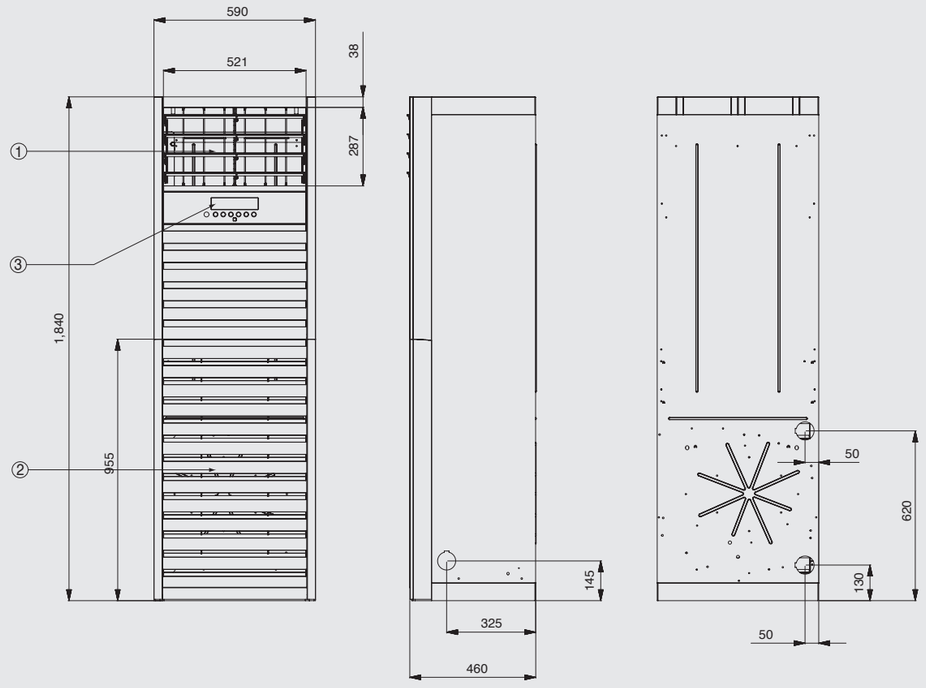


FLOOR STANDING

UP48.NT2

(Unit : mm)

	Part Name
1	Front air discharge grille
2	Display & Single receiver
3	Air suction grille

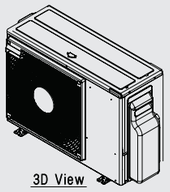


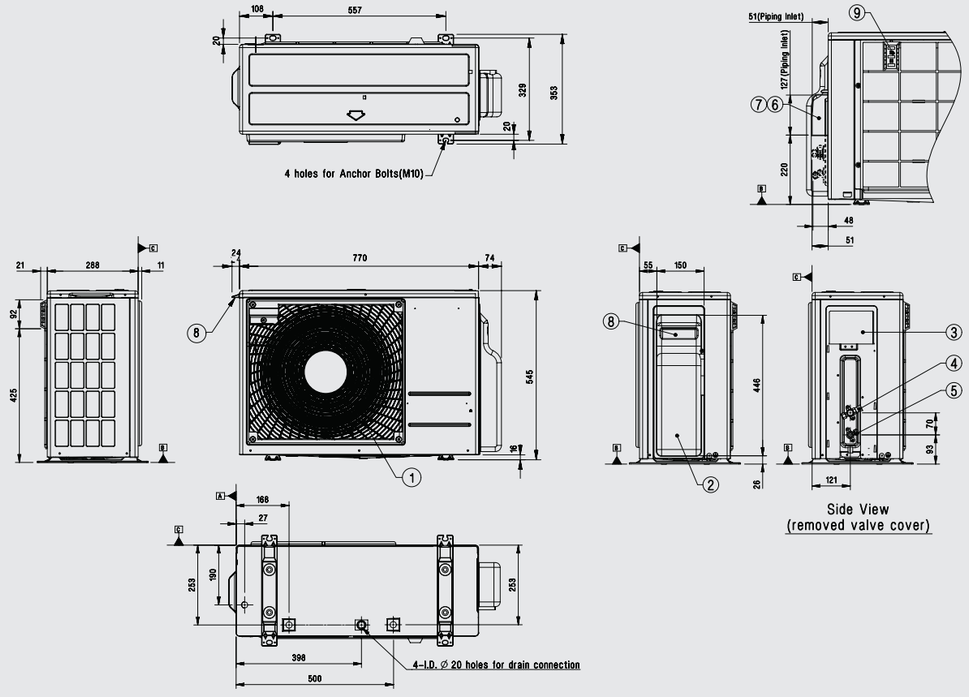
UNIVERSAL OUTDOOR

UU09WR.UL0 / UU12WR.UL0

(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

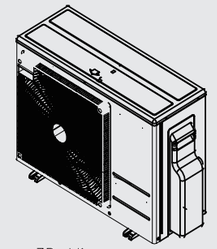


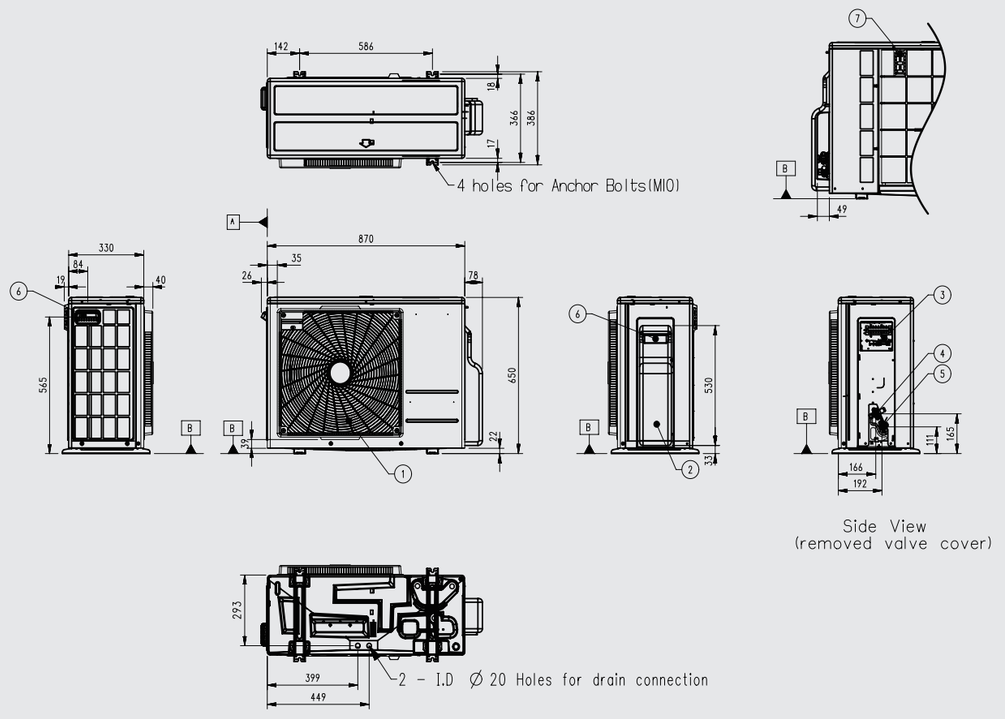


UU18WR.U20

(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

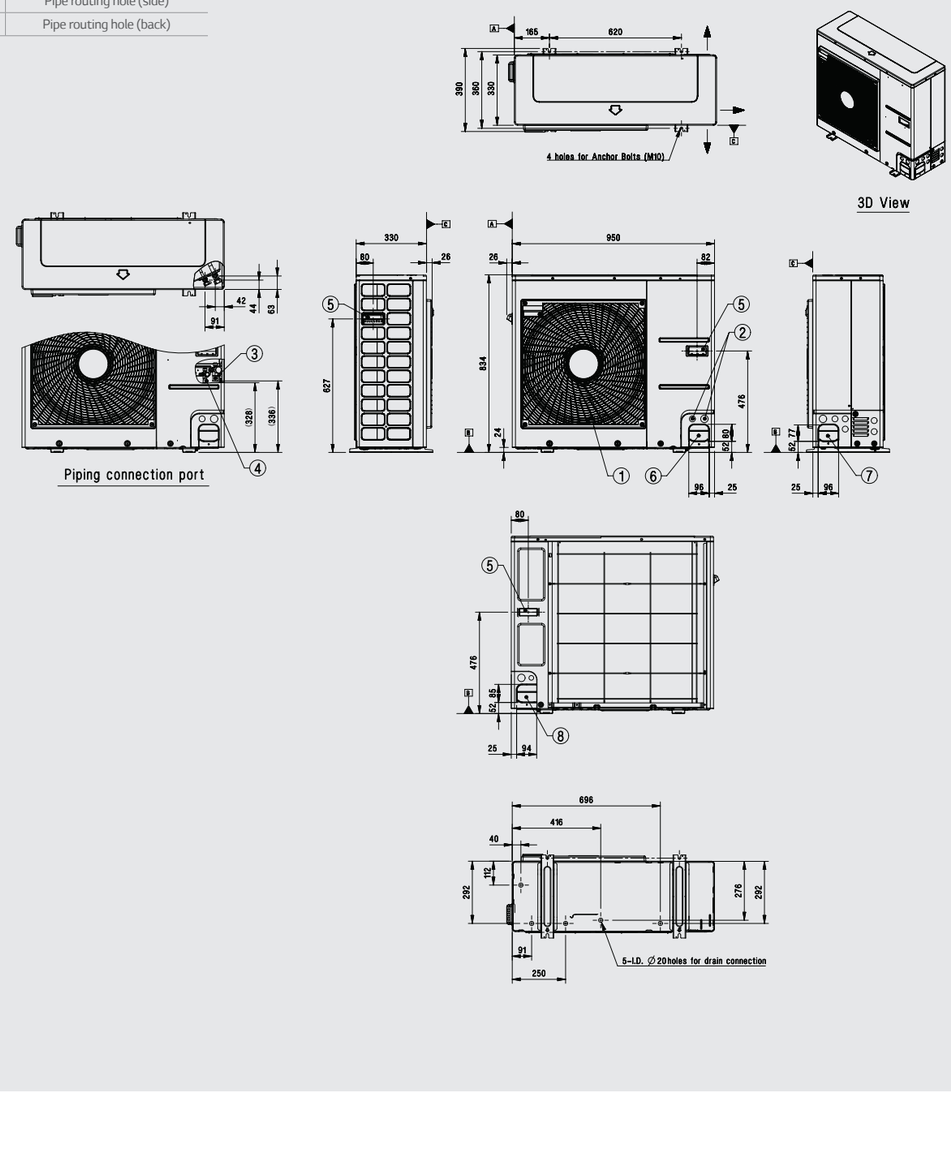


UNIVERSAL OUTDOOR

UU24WR.U40

(Unit : mm)

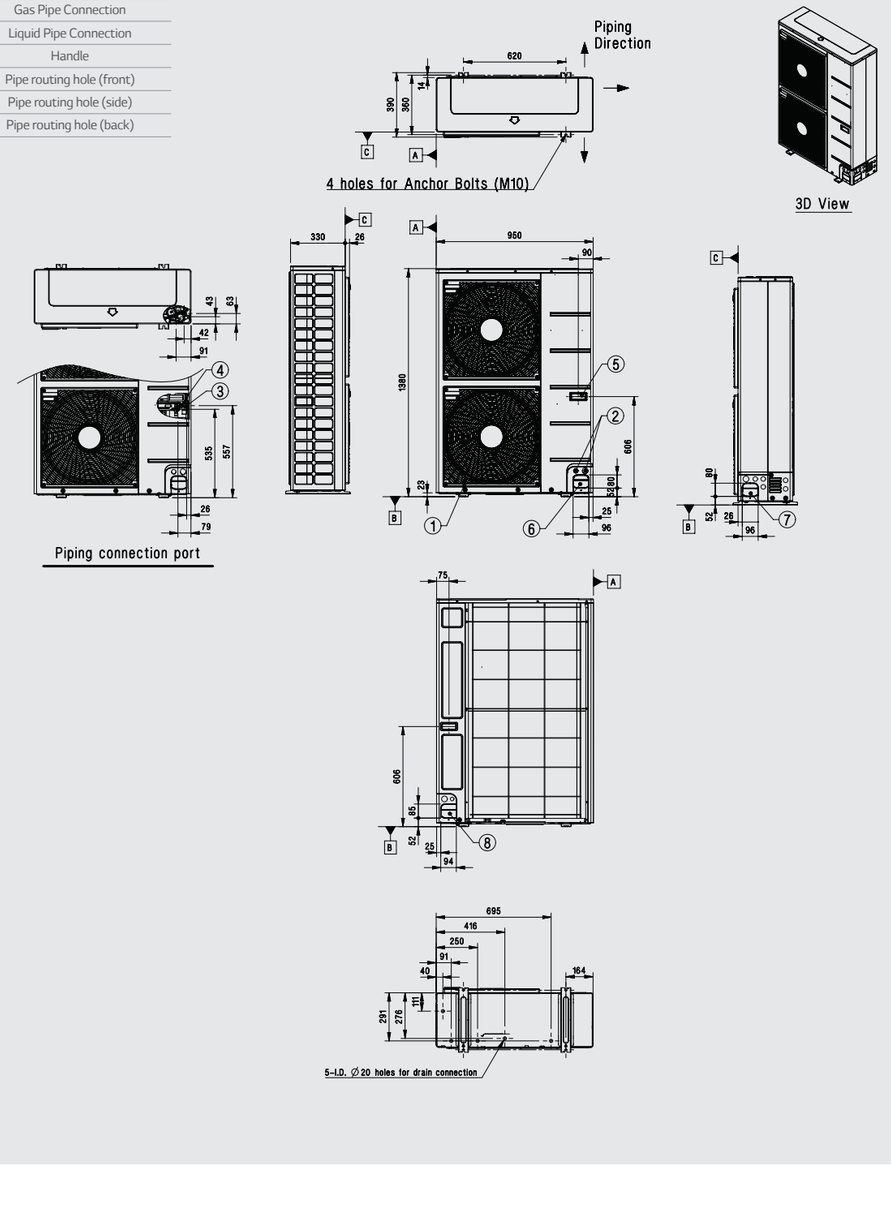
	Part Name
1	Air Outlet
2	Power and communication cable Hole
3	Gas Pipe Connection
4	Liquid Pipe Connection
5	Handle
6	Pipe routing hole (front)
7	Pipe routing hole (side)
8	Pipe routing hole (back)



UU36WR.U30 / UU37WR.U30 / UU42WR.U30 / UU43WR.U30 UU48WR.U30 / UU49WR.U30 / UU60WR.U30 / UU61WR.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)

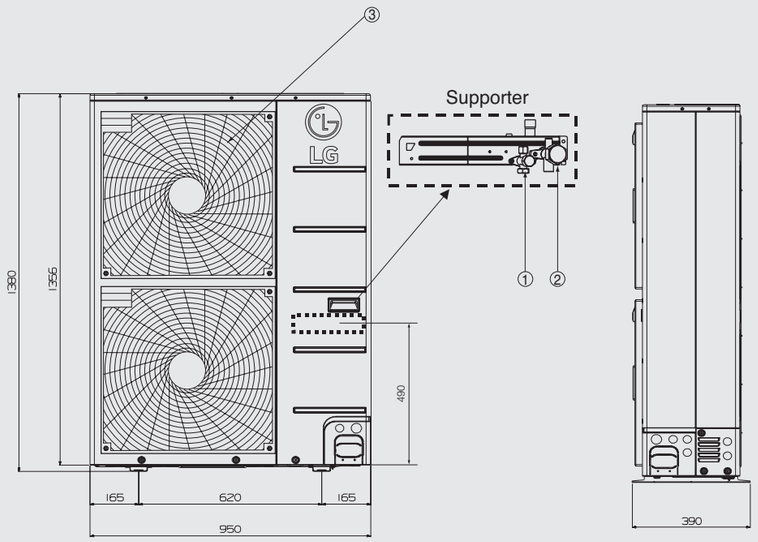


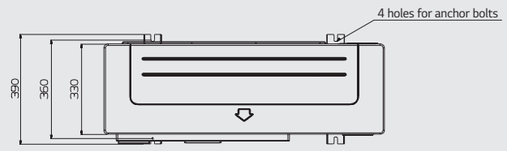
UNIVERSAL OUTDOOR

UU70W.U34

(Unit : mm)

	Part Name
1	Air discharge grille
2	Gas pipe connection
3	Liquid pipe connection
4	Power & Transmission connection

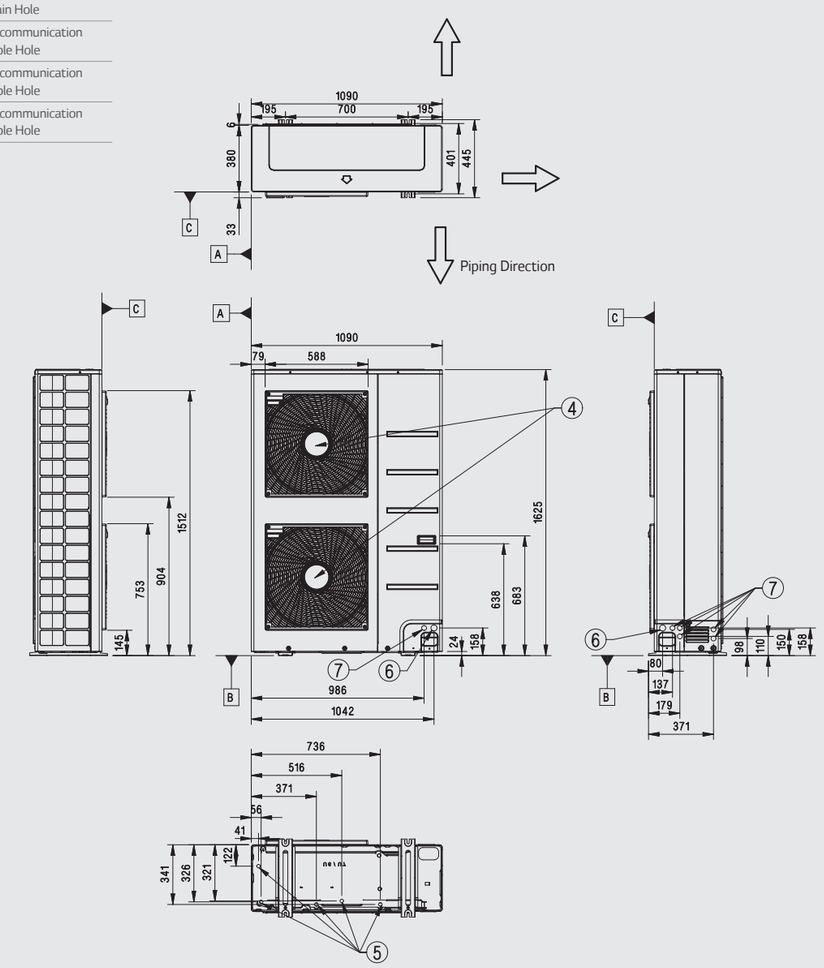




UU85W.U74

(Unit : mm)

	Part Name
1	Gas piping connection
2	Liquid piping connection
3	Air Inlet
4	Air Outlet
5	Drain Hole
6	Power and communication Cable Hole
7	Power and communication Cable Hole
8	Power and communication Cable Hole



HEATING

MONOBLOC (MID TEMPERATURE)
SPLIT (HIGH TEMPERATURE)
DOMESTIC HOT WATER TANK
SPLIT (LOW TEMPERATURE)
SPLIT (DHW TANK INTEGRATED)
ACCESSORIES

WHAT IS THERMA V

What is LG THERMA V?

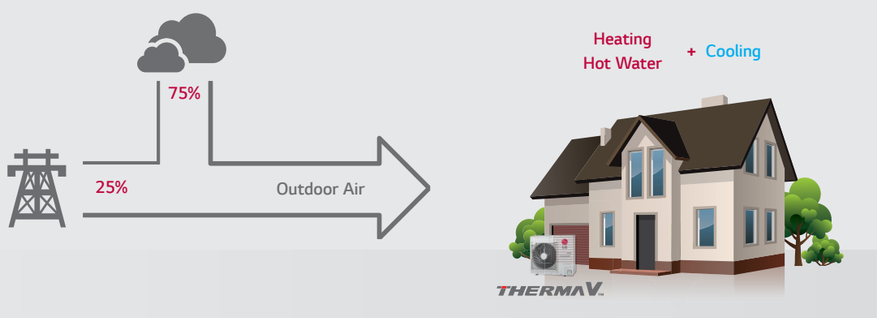
THERMA V is LG's Air to Water Heat Pump system, especially designed for new and renovated housings. It is an in-house design by LG's advanced heating technology consuming less energy.

THERMA V can be used as a multi-purpose heating Solution ranging from floor heating to hot water supply using various heat sources.

Energy Efficient Application

THERMA V offers the best solution for home heating and hot water supply with LG's inverter technology. It is 4 times more energy efficient than the traditional boiler system by absorbing energy from the outdoor environment.

- **AIR SOURCE**
  - Free energy
  - Green energy
  - Easy energy



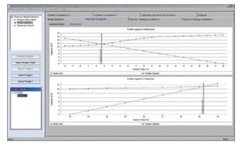
Optimal Application

Advanced model selection software enables designers to choose optimal THERMA V model based on the location and environmental factors.

- **Model selection screen**

- **Monthly energy simulation**

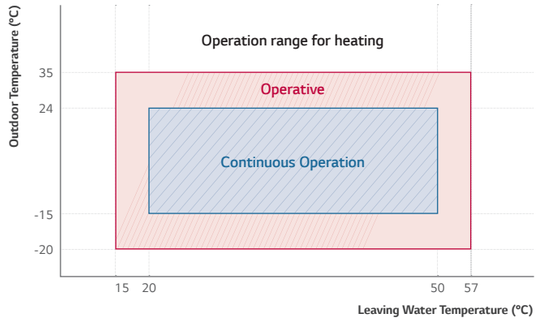
- **Heat load & heat pump capacity**



- **System comparison chart**

Reliable Application

Heating range for outdoor temperature is down to -20°C and leaving water temperature can reach max. 57°C



* In case of Split models

Various Application

Various kinds of application is possible with THERMA V units including new house also renovation house.

- **New House**

With low temp. monobloc & split model, heating and cooling can be ensured.

MONOBLOC

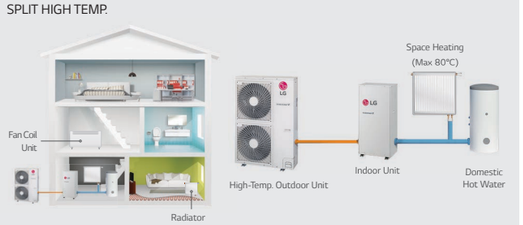
SPLIT

- **Renovation House**

THERMA V can be connected to existing boiler system to optimize energy efficiency and heating capacity for renovation house.
Also THERMA V High Temperature can provide equivalent water heating to a boiler of up to 80°C.

MONOBLOC (or SPLIT)

SPLIT HIGH TEMP.



LINE-UP

THERMA V

TYPE	PHASE	1Ø	1Ø	1Ø	1Ø	1Ø	1Ø	3Ø	3Ø	3Ø
	KW	5	7	9	12	14	16	12	14	16
Monobloc Type R32 65°C A+++*	NEW 	● HM051M.U43	● HM071M.U43	● HM091M.U43						
	NEW 				● HM121M.U33	● HM141M.U33	● HM161M.U33	● HM123M.U33	● HM143M.U33	● HM163M.U33
Split Type R410A 57°C A+++*		● HN1616.NK3	● HN1616.NK3	● HN1616.NK3						
		● HU051.U43	● HU071.U43	● HU091.U43						
					● HN1616.NK3	● HN1616.NK3	● HN1616.NK3	● HN1639.NK3	● HN1639.NK3	● HN1639.NK3
					● HU121.U33	● HU141.U33	● HU161.U33	● HU123.U33	● HU143.U33	● HU163.U33

TYPE	PHASE	1Ø	1Ø	1Ø	1Ø	1Ø	1Ø	3Ø	3Ø	3Ø
	KW	5	7	9	12	14	16	12	14	16
Split DHW Tank Integrated Type R410A 57°C A++				● HN1616T.NB0						
				● HU091.U43						
					● HN1616T.NB0	● HN1616T.NB0	● HN1616T.NB0	● HN1616T.NB0	● HN1616T.NB0	● HN1616T.NB0
					● HU121.U33	● HU141.U33	● HU161.U33	● HU123.U33	● HU143.U33	● HU163.U33
Split High Temp. Type R134A 80°C A+ R410A							● HN1610H.NK2			
							● HU161H.U32			

* A+++ label is available from 26, Sep. 2019 and should be considered as A++ label until that time.

LG THERMA V

Why LG THERMA V?

The LG THERMA V is designed to provide reasonable benefits such as like energy saving, comforts, easy controls and services by applying the advanced technologies.

The LG Inverter Technology provides excellent energy efficiency with optimal components such as water pump, heat exchanger and
fan motor. Moreover, the pressure control technology provides stable heating capacity at a low temperature and reaches target performance without difficulties.

Additionally, the amalgamated model where all-in-one features are combined such as gold-fin and users-oriented functions. This has resulted in boosting professional reputation and enhancing end-user's experience in the form of LG's full line-up from 5kW to 16kW in heating capacity.

MONOBLOC

THERMA V KEY FEATURES

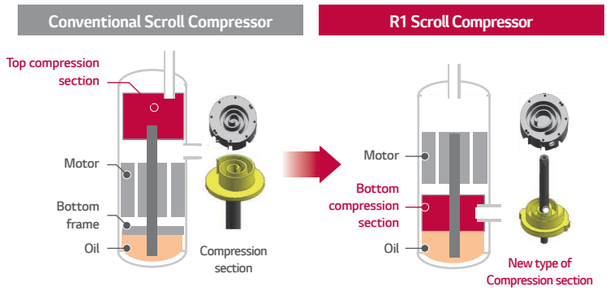
MONOBLOC

R1 Scroll Compressor

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

• Revolutionary Scroll Compressor

- 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)

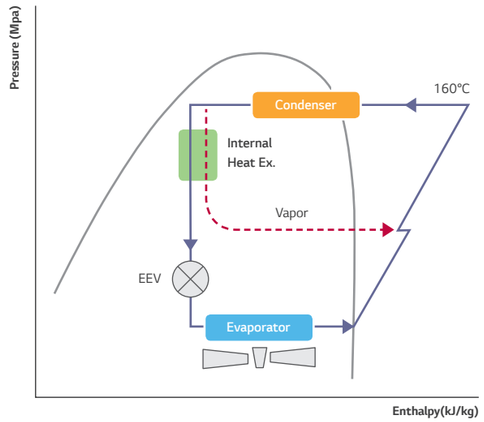


Flash Gas Injection

In case of R32 Refrigerant, it is very important to control discharge temperature of compressor properly. In the R32 Monobloc, Flash Gas Injection technology is applied to control discharge temperature of compressor efficiently. As a result of this technology, heating operation range is expanded and heating performance at low ambient temperature is enhanced.

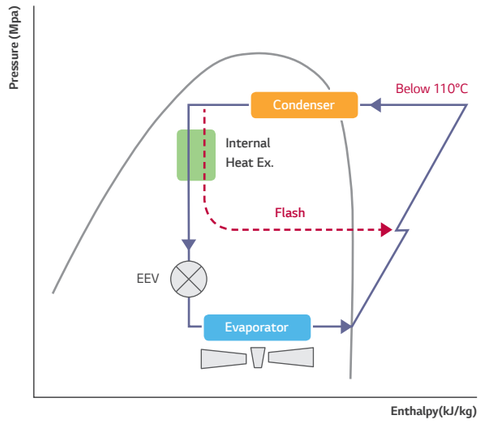
• Vapor Injection

- Discharge Temperature of Compressor is very high (160°C)
- Failure of Injection Cycle and compressor operation under protection logic



• Flash Gas Injection

- Discharge Temperature of Compressor is below 110°C
- Good Operation of Injection Cycle



MONOBLOC

Intuitive Interface

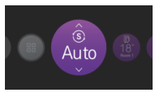
The R32 Monobloc system is upgraded with new remote controller.

- **Premium Design**

  New Modern design 4.3 inch color LCD display
  Capacitive touch button (especially on/off button turn on LED)

- **User Friendly Interface**

  Information displayed with simple graphic, icon & text
  Navigation button, easy to use



- **More energy contents**

  Auto controlled by weather and time

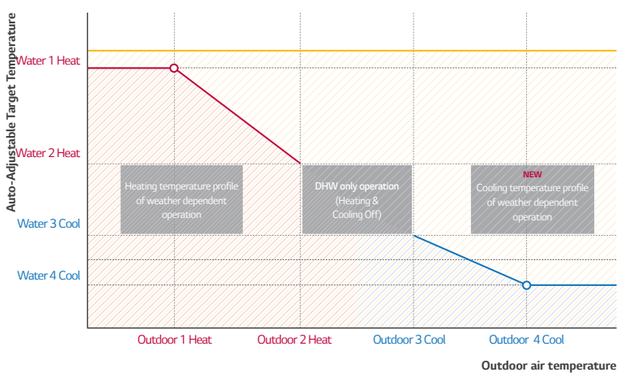
- **Convenient Functions**

  Optimize schedule setting logic
  • Set the period, date, on/off time, operation mode, target temp
  Easy installation setting (as-is : numeric code , to-be : word)

Seasonal Auto Mode

In this mode, the target temperature will vary according to the outdoor temperature automatically.
This mode adds the cooling season function to the conventional weather dependent operation mode.

	Auto-Adjustable Target Temp.	Leaving Water Temp.	Outdoor Air Temp.	
Heating	Water 1 Heat	15 ~ 57	Outdoor 1 Heat	-15 ~ 24
	Water 2 Heat	15 ~ 57	Outdoor 2 Heat	-15 ~ 24
Cooling	Water 3 Cool	5 ~ 25	Outdoor 3 Cool	10 ~ 43
	Water 4 Cool	5 ~ 25	Outdoor 4 Cool	10 ~ 43

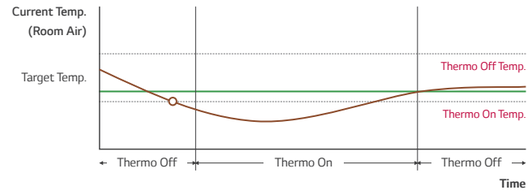


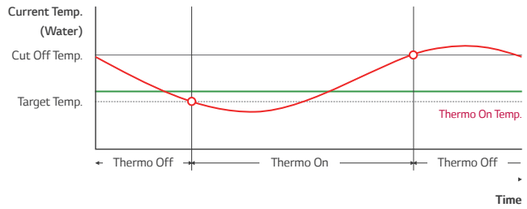
Various Temperature Control Options

Various Temperature Control Options are possible for the User's comfort and convenience. Especially for European life style where thermal comfort is preferred, Simultaneous Control of Room Air and Water Temp. function is added.

- **Control of Leaving Water Temperature**
- **Control of Entering Water Temperature**
- **Control of Room Air Temperature**
- **Simultaneous Control of Room Air and Water Temp.**

• Thermo On : When Satisfied both Room Air Temp. Condition and Water Temp. Condition
• Thermo Off : When Satisfied Room Air Temp. Condition or Water Temp. Condition





Ocean Black Fin

'Ocean Black Fin' heat exchanger is highly corrosion resistant, designed to perform in corrosive environment such as contaminated and humid conditions.

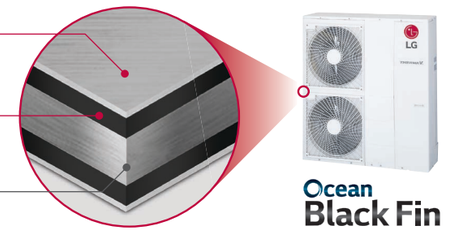
Longer Lifespan,
Lower Operational Costs

Strengthened corrosion resistant coating

Hydrophilic Film (Water Flow)
The Hydrophilic coating minimizes moisture buildup on the fin.

Epoxy Resin (Corrosion resistant)
The Black coating provides strong protection from corrosion

Aluminum Fin



Easy Installation

- **All-in-one Concept**

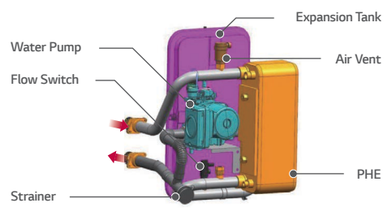
  - LG provides fully packaged THERMA V Monobloc that additional water side components are included in the package.
  - No need to work refrigerant piping, easier and quicker installation.

Water side Items included in the Monobloc

PHE
(Plate Heat Exchanger)

Expansion Tank

A-Class Water Pump



MONOBLOC

R32

HM051M.U43 / HM071M.U43 / HM091M.U43

011-1W0243

DESCRIPTION				UNIT	HM051M.U43	HM071M.U43	HM091M.U43
SEASONAL ENERGY							
Space Heating (According to EN14825)	Average Climate water outlet 35°C	SCOP			4.45	4.45	4.45
		Rated heat output (Prated)			6	6	6
		Seasonal space heating efficiency (ηs)		%	175	175	175
		Seasonal space heating eff. Class			A+++	A+++	A+++
		Annual energy consumption		kWh	2,551	2,668	2,784
	Average Climate water outlet 55°C	SCOP			3.12	3.12	3.12
		Rated heat output (Prated)			6	6	6
		Seasonal space heating efficiency (ηs)		%	122	122	122
		Seasonal space heating eff. Class			A+	A+	A+
		Annual energy consumption		kWh	3,638	3,638	3,638
PRODUCT SPECIFICATION							
		OAT	LWT				
Nominal Capacity	Heating	7°C	35°C	kW	5.50	7.00	9.00
		7°C	55°C	kW	5.50	5.50	5.50
		2°C	35°C	kW	3.30	4.20	5.40
	Cooling	35°C	18°C	kW	5.50	7.00	9.00
		35°C	7°C	kW	5.50	7.00	9.00
Nominal Power Input	Heating	7°C	35°C	kW	1.22	1.56	2.15
		7°C	55°C	kW	2.04	2.04	2.04
		2°C	35°C	kW	0.94	1.20	1.54
	Cooling	35°C	18°C	kW	1.20	1.56	2.14
		35°C	7°C	kW	1.96	2.59	3.46
COP	Heating	7°C	35°C	W/W	4.50	4.50	4.18
		7°C	55°C	W/W	2.70	2.70	2.70
		2°C	35°C	W/W	3.52	3.51	3.50
EER	Cooling	35°C	18°C	W/W	4.60	4.50	4.20
		35°C	7°C	W/W	2.80	2.70	2.60
Operation range	Heating	Water Side Min ~ Max (outlet)		°C	15 ~ 65		
		Air Side Min-Max		°C	-25 ~ 35		
	Cooling	Water Side Min ~ Max (outlet)		°C	5 ~ 27		
		Air Side Min-Max		°C	5 ~ 48		
	Domestic Hot Water	Water Side Min ~ Max (outlet)		°C	15 ~ 80		
Refrigerant	Type				R32		
	GWP (Global Warming Potential)				675		
	Charge			kg	1.4		
				tCO_2eq	0.95		
Compressor	Quantity			EA	1		
	Type				Scroll		
Water Flow Rate	Min.			LPM	15		
Piping Connections	Water Circuit	Inlet		mm(in)	Male PT 25(1)		
		Outlet		mm(in)	Male PT 25(1)		
Dimensions	Unit	W x H x D		mm	1,239 x 834 x 330		
Net Weight	Unit			kg	91		
Sound Pressure Level (at 1m)	Heating	Rated		dBA	50		
Sound power level	Heating	Rated		dBA	60		
Power supply	Phase / Frequency / Voltage			Ø / Hz / V	1 / 50 / 220-240		
	Maximum Running Current			A	23		

Note
1. A+++ label is available from 26, Sep. 2019 and should be considered as A++ label until that time.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design.
   Especially the power cable and circuit breaker should be selected in accordance with that.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are accordance with EN14511. 6. This product contains Fluorinated greenhouse gases. 7. LWT : Leaving Water Temperature, OAT : Outdoor Air Temperature

HM121M.U33 / HM141M.U33 / HM161M.U33
HM123M.U33 / HM143M.U33 / HM163M.U33

011-1W0244

DESCRIPTION				UNIT	HM121M.U33	HM141M.U33	HM161M.U33	HM123M.U33	HM143M.U33	HM163M.U33
SEASONAL ENERGY										
Space Heating (According to EN14825)	Average Climate water outlet 35°C	SCOP			4.45	4.45	4.45	4.45	4.45	4.45
		Rated heat output (Prated)			10	11	11	10	11	11
		Seasonal space heating efficiency (ηs)		%	175	175	175	175	175	175
		Seasonal space heating eff. Class			A+++	A+++	A+++	A+++	A+++	A+++
		Annual energy consumption		kWh	4,642	4,875	5,103	4,642	4,875	5,103
	Average Climate water outlet 55°C	SCOP			3.18	3.18	3.18	3.18	3.18	3.18
		Rated heat output (Prated)			12	12	12	12	12	12
		Seasonal space heating efficiency (ηs)		%	124	124	124	124	124	124
		Seasonal space heating eff. Class			A+	A+	A+	A+	A+	A+
		Annual energy consumption		kWh	7,795	7,795	7,795	7,795	7,795	7,795
PRODUCT SPECIFICATION										
		OAT	LWT							
Nominal Capacity	Heating	7°C	35°C	kW	12.00	14.00	16.00	12.00	14.00	16.00
		7°C	55°C	kW	12.00	12.00	12.00	12.00	12.00	12.00
		2°C	35°C	kW	11.00	12.00	13.80	11.00	12.00	13.80
	Cooling	35°C	18°C	kW	14.00	14.00	16.00	14.00	14.00	16.00
		35°C	7°C	kW	14.00	14.00	16.00	14.00	14.00	16.00
Nominal Power Input	Heating	7°C	35°C	kW	2.61	3.11	4.00	2.61	3.11	4.00
		7°C	55°C	kW	4.29	4.29	4.29	4.29	4.29	4.29
		2°C	35°C	kW	3.13	3.42	3.94	3.13	3.42	3.94
	Cooling	35°C	18°C	kW	3.04	3.26	4.00	3.04	3.26	4.00
		35°C	7°C	kW	5.19	5.38	6.40	5.19	5.38	6.40
COP	Heating	7°C	35°C	W/W	4.60	4.50	4.00	4.60	4.50	4.00
		7°C	55°C	W/W	2.80	2.80	2.80	2.80	2.80	2.80
		2°C	35°C	W/W	3.52	3.51	3.50	3.52	3.51	3.50
EER	Cooling	35°C	18°C	W/W	4.60	4.30	4.00	4.60	4.30	4.00
		35°C	7°C	W/W	2.70	2.60	2.50	2.70	2.60	2.50
Operation range	Heating	Water Side Min ~ Max (outlet)		°C	15 ~ 65			15 ~ 65		
		Air Side Min-Max		°C	-25 ~ 35			-25 ~ 35		
	Cooling	Water Side Min ~ Max (outlet)		°C	5 ~ 27			5 ~ 27		
		Air Side Min-Max		°C	5 ~ 48			5 ~ 48		
	Domestic Hot Water	Water Side Min ~ Max (outlet)		°C	15 ~ 80			15 ~ 80		
Refrigerant	Type				R32			R32		
	GWP (Global Warming Potential)				675			675		
	Charge			kg	2.4			2.4		
				tCO_2eq	1.62			1.62		
Compressor	Quantity			EA	1			1		
	Type				Scroll			Scroll		
Water Flow Rate	Min.			LPM	20			20		
Piping Connections	Water Circuit	Inlet		mm(in)	Male PT 25(1)			Male PT 25(1)		
		Outlet		mm(in)	Male PT 25(1)			Male PT 25(1)		
Dimensions	Unit	W x H x D		mm	1,239 x 1,380 x 330			1,239 x 1,380 x 330		
Net Weight	Unit			kg	125			125		
Sound Pressure Level (at 1m)	Heating	Rated		dBA	52			52		
Sound power level	Heating	Rated		dBA	63			63		
Power supply	Phase / Frequency / Voltage			Ø / Hz / V	1 / 50 / 220-240			3 / 50 / 380-415		
	Maximum Running Current			A	35			15		

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design.
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   Therefore, these values can be increased owing to ambient conditions during operation.
4. Performances are accordance with EN14511.
5. This product contains Fluorinated greenhouse gases. 6. LWT : Leaving Water Temperature, OAT : Outdoor Air Temperature

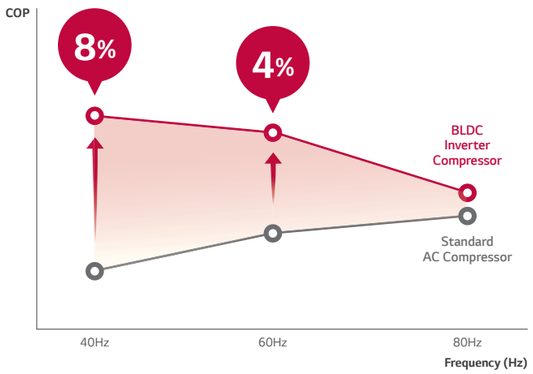
THERMA V KEY FEATURES

SPLIT

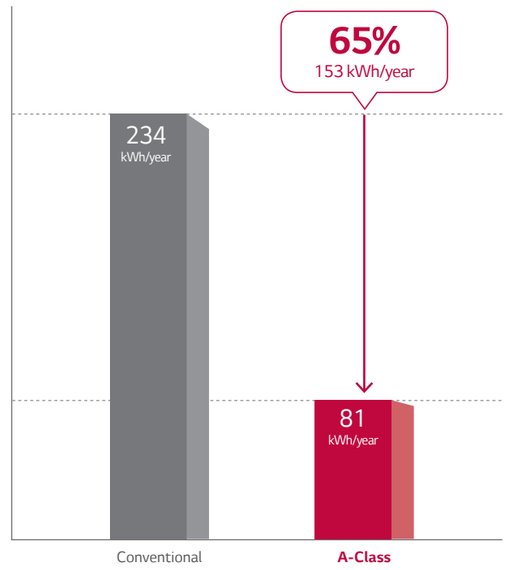
BLDC (Brushless Direct Current Motor) Compressor

THERMA V is equipped with a BLDC compressor that uses a strong neodymium magnet. The compressor has improved efficiency compared to standard AC inverter product and it is optimized for seasonal efficiency.

- Minimized oil circulation
- High efficiency motor
- Optimized compression
- Optimized vibration, noise
- High reliability



Conventional	LG
Distributed Winding	Concentrated Winding

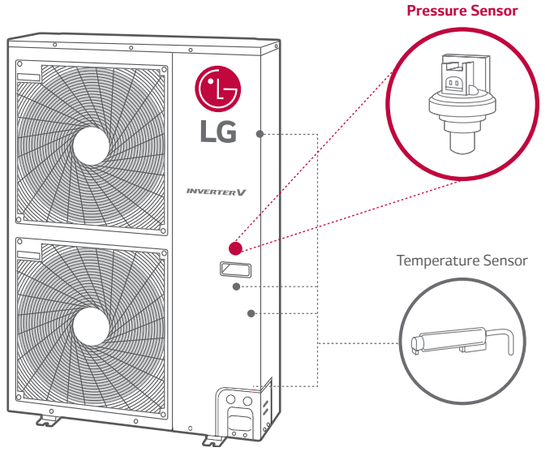


* Condition : 12 hours x 30 days x 5 month (estimated value)

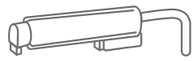
SPLIT

Reliability at Low Temperature

Pressure control reinforces heating performance by operating in stable condition at low ambient temperature.



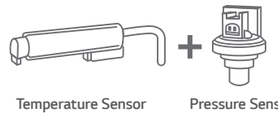
Temperature Control



Temperature Sensor Only

This algorithm is more likely to be affected by temperature change and it takes more time to calculate proper operation range of compressor to target point.

Pressure Control



Temperature Sensor Pressure Sensor

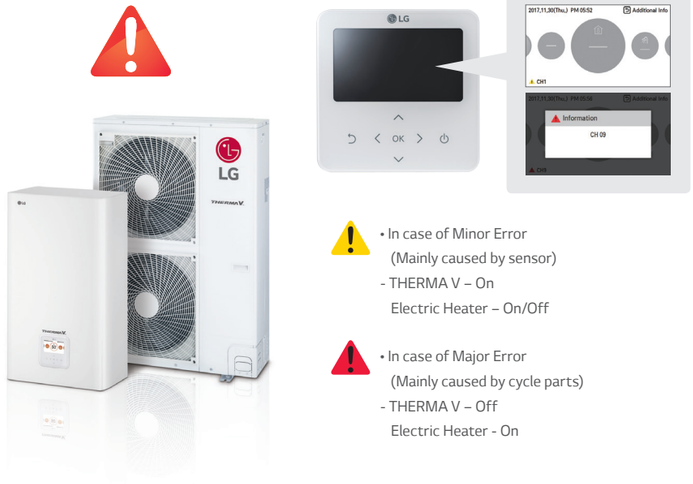
This ensures to reach target performance point without failing to keep a reliable operation.

Easy Commissioning

- **Pre-Installation Setting**
  - Based on installation site information, installers can prepare presetting with LG Heating Configurator and save data into memory card from office.
  - At the site, then installers can simply insert memory card at the back of remote controller to activate configuration data.

Emergency Operation

Even in case of sudden product error, THERMA V ensures stable heating operation by applying 2 steps of emergency control.



- In case of Minor Error
  (Mainly caused by sensor)
  - THERMA V – On
    Electric Heater – On/Off

- In case of Major Error
  (Mainly caused by cycle parts)
  - THERMA V – Off
    Electric Heater - On

Conventional

LG THERMA V

Easy & Quick Maintence

- **Data Logging**
  - The remote controller can store up to 50 history items, making it possible to easily identify cause of malfunctioning or faults using the history data and prompt solution

- Date and time
- Operation mode (Cooling, Heating, Hot Water, Auto)
- Setting temperature
- Inlet / Outlet temperature
- Room air temperature
- DHW (Operation status / Target temperature / current temperature)
- ODU operation status
- Error status & code

SPLIT

R410A

HN1616.NK3 / HU051.U43, HU071.U43, HU091.U43

011-1W0252

LG participates in the ECP programme for EUROVENT EURO-HP program.
Check ongoing validity of certification :
www.eurovent-certification.com

DESCRIPTION					ODU	HU051.U43	HU071.U43	HU091.U43
					IDU	HN1616.NK3		
SEASONAL ENERGY								
Space Heating (According to EN14825)	Average Climate water outlet 35°C	SCOP				4.52	4.45	4.34
		Rated heat output (Prated)				6	6	7
		Seasonal space heating efficiency (ηs)		%		178	175	171
		Seasonal space heating eff. Class				A+++	A+++	A++
		Annual energy consumption		kWh		2,512	2,783	3,093
	Average Climate water outlet 55°C	SCOP				3.23	3.23	3.23
		Rated heat output (Prated)				6	6	6
		Seasonal space heating efficiency (ηs)		%		126	126	126
		Seasonal space heating eff. Class				A++	A++	A++
		Annual energy consumption		kWh		3,581	3,581	3,581
PRODUCT SPECIFICATION								
		OAT	LWT					
Nominal Capacity	Heating	7°C	35°C	kW		5.00	7.00	9.00
		2°C	35°C	kW		4.30	5.97	7.30
		-2°C	50°C	kW		6.24	6.68	7.08
		-7°C	35°C	kW		4.23	5.88	7.53
	Cooling	35°C	18°C	kW		5.00	7.00	9.00
Nominal Power Input	Heating	7°C	35°C	kW		1.01	1.59	2.05
		2°C	35°C	kW		3.52	1.70	2.09
		-2°C	50°C	kW		3.20	3.34	3.54
		-7°C	35°C	kW		2.78	2.14	2.74
	Cooling	35°C	18°C	kW		1.09	1.56	2.37
COP	Heating	7°C	35°C	W/W		4.93	4.80	4.40
		2°C	35°C	W/W		3.52	3.51	3.50
		-2°C	50°C	W/W		1.95	2.00	2.00
		-7°C	35°C	W/W		2.78	2.75	2.75
EER	Cooling	35°C	18°C	W/W		4.60	4.50	3.80
Operation Range (Outdoor Air)	Heating	Min. ~ Max.		°C DB			-20 ~ 35	
	Cooling	Min. ~ Max.		°C DB			5 ~ 48	
Refrigerant	Type			-			R410A	
	GWP (Global Warming Potential)			-			2,088	
	Charge			kg			1.8	
				tCO2eq			3.76	
	Chargeless Pipe Length			m			7.5	
	Additional Charging Volume			g/m			40	
Compressor	Quantity			EA			1	
	Type						Rotary	
Refrigerant Piping Connection	Outer Dia.	Liquid		mm(in)			Ø 9.52 (3/8)	
		Gas		mm(in)			Ø 15.88 (5/8)	
	Length	Min.		m			3	
		Standard		m			7.5	
		Max.		m			50	
	Level Difference (ODU ~ IDU)	Max.		m			30	
Dimensions	Unit	W x H x D		mm			950 x 834 x 330	
Weight	Unit			kg			59	
Sound Power Level	Heating	Rated		dB(A)			65	
Power Supply	Phase / Frequency / Voltage			Ø / Hz / V			1 / 50 / 220-240	
	Maximum Running Current			A			19.0	
	Recommended Circuit Breaker			A			30	

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
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3. Sound Level Values are measured at Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. Performances are based on that Interconnected Pipe Length is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
5. This product contains Fluorinated greenhouse gases. 6. LWT : Leaving Water Temperature, OAT : Outdoor Air Temperature

DESCRIPTION			UNIT	HN1616.NK3
Operation Range (Leaving Water)	Heating		°C	15 ~ 57
	Cooling	For Fan Coil Unit	°C	6 ~ 30
		For under floor	°C	16 ~ 30
Electric Heater	Power supply	Phase / Frequency / Voltage	Ø / Hz / V	1 / 50 / 220-240
	Number of Heating Coil		EA	2
	Capacity		kW	3 + 3
	Maximum Running Current		A	32
Water Flow Rate	Min.		LPM	15
Piping Connections	Water Circuit	Inlet	mm(in)	Male PT 25(1)
		Outlet	mm(in)	Male PT 25(1)
	Refrigerant Circuit	Gas	mm(in)	Ø 15.88 (5/8)
		Liquid	mm(in)	Ø 9.52 (3/8)
Dimensions	Body	W x H x D	mm	490 x 850 x 315
Net Weight	Body		kg	43
Sound power level	Heating	Rated	dBA	44

HN1616.NK3 / HU121.U33, HU141.U33, HU161.U33
HN1639.NK3 / HU123.U33, HU143.U33, HU163.U33

011-1W0253

LG participates in the ECP programme for EUROVENT EURO-HP program.
Check ongoing validity of certification :
www.eurovent-certification.com

DESCRIPTION				ODU	HU121.U33	HU141.U33	HU161.U33	HU123.U33	HU143.U33	HU163.U33
				IDU	HN1616.NK3	HN1616.NK3	HN1616.NK3	HN1639.NK3	HN1639.NK3	HN1639.NK3
SEASONAL ENERGY										
Space Heating (According to EN14825)	Average Climate water outlet 35°C	SCOP			4.45	4.45	4.30	4.45	4.45	4.30
		Rated heat output (Prated)			9	10	10	9	10	10
		Seasonal space heating efficiency (ηs)	%		175	175	169	175	175	169
		Seasonal space heating eff. Class			A+++	A+++	A++	A+++	A+++	A++
		Annual energy consumption	kWh		4,177	4,408	4,802	4,177	4,408	4,802
	Average Climate water outlet 55°C	SCOP			3.32	3.32	3.32	3.32	3.32	3.32
		Rated heat output (Prated)			10	10	10	10	10	10
		Seasonal space heating efficiency (ηs)	%		130	130	130	130	130	130
		Seasonal space heating eff. Class			A++	A++	A++	A++	A++	A++
		Annual energy consumption	kWh		6,154	6,154	6,154	6,154	6,154	6,154
PRODUCT SPECIFICATION										
		OAT	LWT							
Nominal Capacity	Heating	7°C	35°C	kW	12.00	14.00	16.00	12.00	14.00	16.00
		2°C	35°C	kW	10.33	10.83	11.95	10.33	10.83	11.95
		-2°C	50°C	kW	11.89	11.89	11.89	11.89	11.89	11.89
		-7°C	35°C	kW	11.00	12.50	13.50	11.00	12.50	13.50
	Cooling	35°C	18°C	kW	10.40	12.00	13.00	10.40	12.00	13.00
Nominal Power Input	Heating	7°C	35°C	kW	2.64	3.17	3.76	2.64	3.17	3.76
		2°C	35°C	kW	2.93	3.09	3.41	2.93	3.09	3.41
		-2°C	50°C	kW	5.25	5.25	5.25	5.25	5.25	5.25
		-7°C	35°C	kW	3.14	3.73	4.35	3.14	3.73	4.35
	Cooling	35°C	18°C	kW	2.60	3.08	3.60	2.60	3.08	3.60
COP	Heating	7°C	35°C	W/W	4.55	4.41	4.26	4.55	4.41	4.26
		2°C	35°C	W/W	3.52	3.51	3.50	3.52	3.51	3.50
		-2°C	50°C	W/W	2.27	2.27	2.27	2.27	2.27	2.27
		-7°C	35°C	W/W	3.50	3.35	3.10	3.50	3.35	3.10
EER	Cooling	35°C	18°C	W/W	4.00	3.90	3.61	4.00	3.90	3.61
Operation Range (Outdoor Air)	Heating	Min. ~ Max.		°C DB		5 ~ 48			5 ~ 48	
	Cooling	Min. ~ Max.		°C DB		-20 ~ 35			-20 ~ 35	
Refrigerant	Type			-		R410A			R410A	
	GWP (Global Warming Potential)			-		2,088			2,088	
	Charge			kg		2.3			2.3	
				tCO2eq		4.8			4.8	
	Chargeless Pipe Length			m		7.5			7.5	
	Additional Charging Volume			g/m		40			40	
Compressor	Quantity			EA		1			1	
	Type					Rotary			Rotary	
Refrigerant Piping Connection	Outer Dia.	Liquid		mm(in)		Ø 9.52 (3/8)			Ø 9.52 (3/8)	
		Gas		mm(in)		Ø 15.88 (5/8)			Ø 15.88 (5/8)	
	Length	Min.		m		3			3	
		Standard		m		7.5			7.5	
		Max.		m		50			50	
	Level Difference (ODU ~ IDU)	Max.		m		30			30	
Dimensions	Unit	W x H x D		mm		950 x 1,380 x 330			950 x 1,380 x 330	
Weight	Unit			kg		94			94	
Sound Power Level	Heating	Rated		dB(A)		66			66	
Power Supply	Phase / Frequency / Voltage			Ø / Hz / V		1 / 50 / 220-240			3 / 50 / 380-415	
	Maximum Running Current			A		25			16	
	Recommended Circuit Breaker			A		40			20	

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3. Sound Level Values are measured at Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. Performances are based on that Interconnected Pipe Length is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
5. This product contains Fluorinated greenhouse gases. 6. LWT : Leaving Water Temperature, OAT : Outdoor Air Temperature

DESCRIPTION			UNIT	HN1616.NK3	HN1639.NK3
Operation Range (Leaving Water)	Heating		°C	15 ~ 57	15 ~ 57
	Cooling	For Fan Coil Unit	°C	6 ~ 30	6 ~ 30
		For under floor	°C	16 ~ 30	16 ~ 30
Electric Heater	Power supply	Phase / Frequency / Voltage	Ø / Hz / V	1 / 50 / 220-240	3 / 50 / 380-415
	Number of Heating Coil		EA	2	3
	Capacity		kW	3 + 3	3 + 3 + 3
	Maximum Running Current		A	32	20
Water Flow Rate	Min.		LPM	15	15
Piping Connections	Water Circuit	Inlet	mm(in)	Male PT 25(1)	Male PT 25(1)
		Outlet	mm(in)	Male PT 25(1)	Male PT 25(1)
	Refrigerant Circuit	Gas	mm(in)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
		Liquid	mm(in)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Dimensions	Body	W x H x D	mm	490 x 850 x 315	490 x 850 x 315
Net Weight	Body		kg	43	45
Sound power level	Heating	Rated	dBA	44	44

DHW TANK INTEGRATED

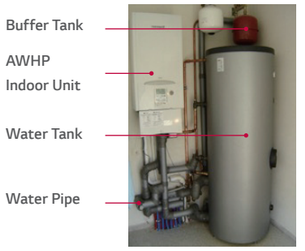
THERMA V KEY FEATURES

SPLIT DHW TANK INTEGRATED

Save space & Save time

Compared with conventional system, easy & quick installation is possible and smaller spaces are required for installation.

Conventional



- Enough rooms for product installation
- Need to secure the space for water tank
- More water piping work & More installation time

New (DHW tank integrated type)

All in one
Small space for product installation

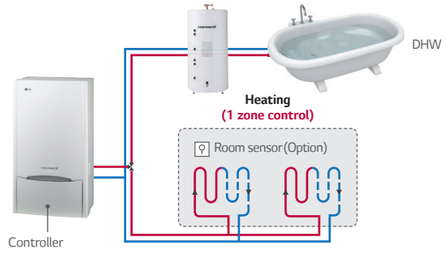
Less water piping work
More easy & Save time

2nd Heating Circuit

Possible heating individually through separate heating circuits with a controller and a mixing valve.

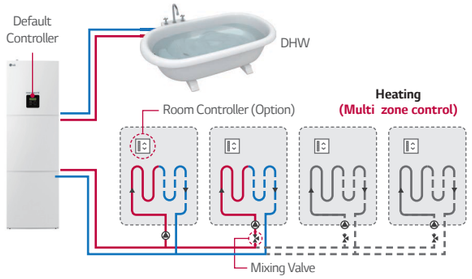
Conventional

Only 1 heating circuit not individually controllable



New

Basically 2 heating circuits with individual control



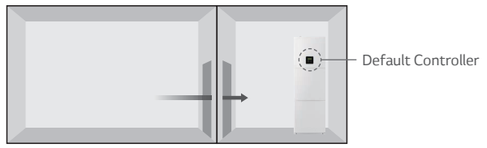
With the circuit extension module, **max 4 heating circuits** to control individually (Optional)

Controller for convenient control

Easy & convenient setting room temperature!

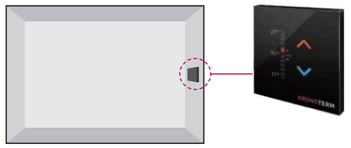
Default controller installed

Must move to control



Option controller installed

It is not required to move it once it has been set up in your room.



Room controller
Thermostat without display Basic settings of room temperature

(Optional Accessory: OSHI-REMT01.ENCXLEU)

SPLIT DHW TANK INTEGRATED

R410A

HN1616T.NBO

DESCRIPTION			UNIT	HN1616T.NB0		
PRODUCT SPECIFICATION						
Operation Range (Leaving Water)	Heating		℃	25 ~ 58		
	Cooling		℃	7 ~ 25		
	Domestic Hot Water		℃	10 ~ 60		
Electric Heater	Power supply	Phase / Frequency / Voltage	Ø / Hz / V	1 / 50 / 220-240	1 / 50 / 220-240	3 / 50 / 380-415
	Number of Heating Coil		EA	1	2	3
	Capacity		kW	2	2 + 2	2 + 2 + 2
	Maximum Running Current		A	11.1	19.9	11.1
	Recommended Circuit Breaker		A	16	20	16
Water Flow Rate	Min.		LPM	13		
Piping Connections	Water Circuit	Inlet	mm(in)	Male PT 25(1)		
		Outlet	mm(in)	Male PT 25(1)		
	Refrigerant Circuit	Gas	mm(in)	Ø 15.88 (5/8)		
		Liquid	mm(in)	Ø 9.52 (3/8)		
	DHW Tank Water Circuit	Cold Inlet	mm(in)	Male PT 19.05 (3/4		
		Hot Outlet	mm(in)	Male PT 25 (1)		
		Recirculation	mm(in)	Male PT 19.05 (3/4)		
DHW Tank	Type			Hydro module with integrated boiler		
	Material		-	Enameled steel		
	Water Volume	Rated	l	200		
	Internal Thermal Protect limit		℃	95		
	Maximum water pressure limit		bar	10		
	Insulation	Material	-	Polyurethane foam		
		Thickness		50		
		Heat loss (for 24hr)	kWh	1.67		
Buffer Tank	Water Volume	Rated	l	40		
	Material		-	Steel powder coated		
	Insulation Material		-	Closed cell foamed rubber		
Dimensions	Body	W x H x D	mm	607 × 2,079 × 725		
Net Weight	Body		kg	228		
Sound power level	Heating	Rated	dBA	36		

Notes
1. Indoor unit is include integrated electrical heater

HN1616T.NBO / HU091.U43, HU121.U33, HU141.U33, HU161.U33, HU123.U33, HU143.U33, HU163.U33

011-1W0253

SPLIT (OUTDOOR)					ODU	HU091.U43	HU121.U33	HU141.U33	HU161.U33	HU123.U33	HU143.U33	HU163.U33
					IDU	HN1616T.NB0						
PRODUCT SPECIFICATION												
		OAT	LWT									
Nominal Capacity	Heating	7℃	35℃	kW		9.0	12.0	14.0	16.0	12.0	14.0	16.0
	Cooling	35℃	18℃	kW		9.0	10.4	11.0	12.0	10.4	11.0	12.0
Nominal Power Input	Heating	7℃	35℃	kW		2.23	2.78	3.43	4.18	2.78	3.43	4.18
	Cooling	35℃	18℃	kW		2.88	3.30	3.53	4.00	3.30	3.53	4.00
COP	Heating	7℃	35℃	W/W		4.04	4.32	4.08	3.83	4.32	4.08	3.83
EER	Cooling	35℃	18℃	W/W		3.12	3.15	3.12	3.00	3.15	3.12	3.00
Operation Range (Outdoor Air)	Heating	Min. ~ Max.		℃ DB		-20 ~ 35						
	Cooling	Min. ~ Max.		℃ DB		5 ~ 48						
Refrigerant	Type			-		R410A						
	GWP (Global Warming Potential)			-		2,088						
	Charge			kg		1.8	2.3	2.3	2.3	2.3	2.3	2.3
				tCO_2eq		3.76	4.8	4.8	4.8	4.8	4.8	4.8
	Chargeless Pipe Length			m		7.5						
	Additional Charging Volume			g/m		40						
Compressor	Quantity			EA		1						
	Type					Rotary						
Refrigerant Piping Connection	Outer Dia.	Liquid		mm(in)		Ø 9.52 (3/8)						
		Gas		mm(in)		Ø 15.88 (5/8)						
	Length	Min.		m		3						
		Standard		m		7.5						
		Max.		m		50						
	Level Difference (ODU ~ IDU)	Max.		m		30						
Dimensions	Unit	W x H x D		mm		950x834x330	950x1,380x330	950x1,380x330	950x1,380x330	950x1,380x330	950x1,380x330	950x1,380x330
Weight	Unit			kg		59	94	94	94	94	94	94
Sound Power Level	Heating	Rated		dB(A)		65	66	66	66	66	66	66
Power Supply	Phase / Frequency / Voltage			Ø / Hz / V		1 / 50 / 220-240	1 / 50 / 220-240	1 / 50 / 220-240	1 / 50 / 220-240	3 / 50 / 380-415	3 / 50 / 380-415	3 / 50 / 380-415
	Maximum Running Current			A		19	25	25	25	16.1	16.1	16.1
	Recommended Circuit Breaker			A		30	40	40	40	20	20	20
Modbus Converter (*Required purchase separately)	Type			-		Gateway PI485						
	Model			-		PP485B00K						
SEASONAL ENERGY												
Space heating	Average climate water outlet 55℃ (A++ to G Scale)	General	SCOP			2.88	3	3	3	3	3	3
			η_s (Seasonal space heating efficiency)	%		112	117	117	117	117	117	117
			Seasonal space heating eff. Class			A+	A+	A+	A+	A+	A+	A+
	Average climate water outlet 35℃ (A++ to G Scale)	General	SCOP			4.04	4.2	4.15	4.15	4.2	4.15	4.15
			η_s (Seasonal space heating efficiency)	%		159	165	163	163	165	163	163
			Seasonal space heating eff. Class			A++	A++	A++	A++	A++	A++	A++
Domestic Hot Water Heating	General	Declared load profile				XL	XL	XL	XL	XL	XL	XL
	Average climate (A to G Scale)	η_{wh} (water heating efficiency)		%		98	89	89	89	89	89	89
		Water heating energy efficiency class				A	A	A	A	A	A	A

Note
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3. Sound Level Values are measured at Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. Performances are based on that Interconnected Pipe Length is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
5. This product contains Fluorinated greenhouse gases.
6. LWT : Leaving Water Temperature, OAT : Outdoor Air Temperature

DHW TANK INTEGRATED

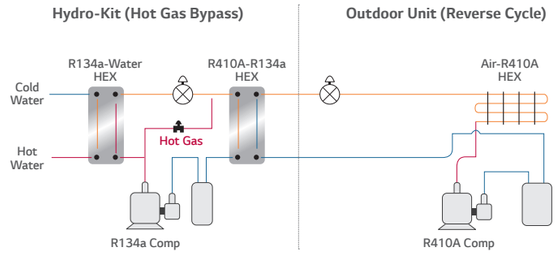
THERMA V KEY FEATURES

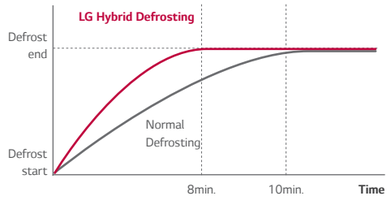
HIGH TEMPERATURE

Quick Defrosting

Through R134A compressor controlling technology, necessary time for defrost operation has been minimized effectively. (LG Patent)

As compared to normal reverse cycle defrost, 25% reduction in defrost time,
and 10% increase of integrated heating capacity is achieved using hybrid defrosting.

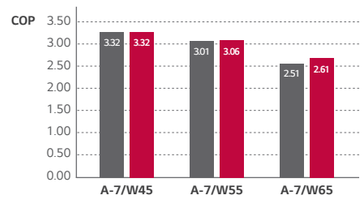




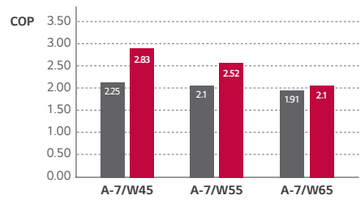
Higher Energy Efficiency

By applying efficient compressor and optimally designed structure, the more energy saving, the lower operating cost make sooner return on initial investment.

Heating COP at -7°C Outdoor Temperature

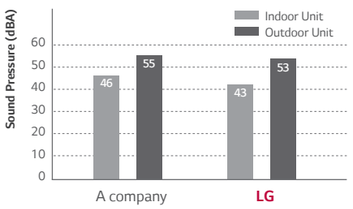


Heating COP at -7°C Outdoor Temperature



Low Noise Level

Through cutting edge technology for DC inverter compressor, operating noise level of indoor & outdoor unit has been reduced and serves more comfort.

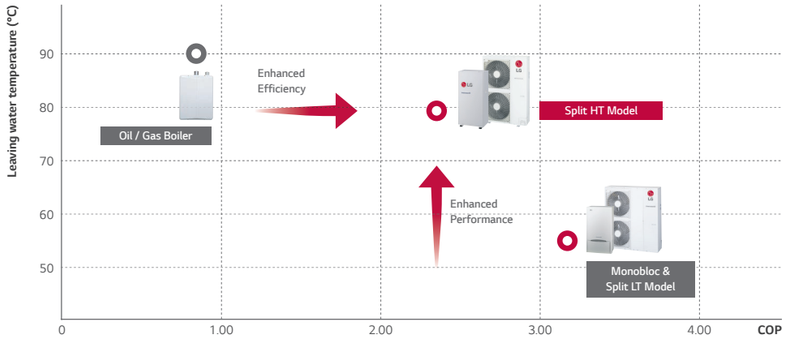


THERMA V KEY FEATURES

HIGH TEMPERATURE

Enhanced Efficiency & Performance

THERMA V high temp. can produce Max. 80°C hot water with high efficiency (Max. COP 4.06 at 24°C ODT & 40/45 EWT/LWT) through cascade 2 stage compression technology.

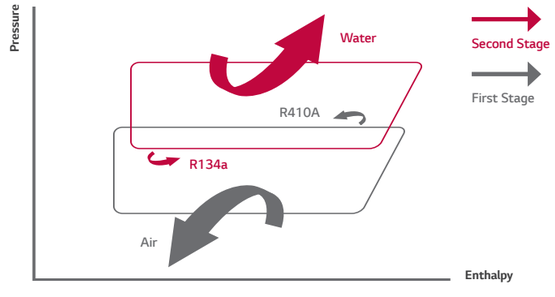


* Condition for HT model :
  Outdoor air temp. 18°C, entering water temp. 70°C
* Condition for LT model :
  Outdoor air temp. 18°C, entering water temp. 50°C

Cascade 2 Stage Compression Technology

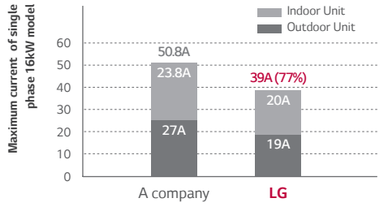
Max. 80°C hot water can be generated through Cascade R410A to R134a BLDC compressor technology and is applicable for existing old boiler heating system which demands hot water supply.

High temperature through Cascade cycle technology



Low Maximum Current Level

LG High Temperature THERMA V can be easily installed without any incurring any additional costs to the electric connections.



THERMA V SPECIFICATION

HIGH TEMPERATURE

R410A

HN1610H.NK2
HU161H.U32

LG participates in the ECP programme for EUROVENT EURO-HP program.
Check ongoing validity of certification :
www.eurovent-certification.com

Product Specification

DESCRIPTION				OUTDOOR UNIT	HU161H.U32
				INDOOR UNIT	HN1610H.NK2
		OAT	LWT		
Nominal Capacity	Heating	7℃	65℃	kW	16.00
Nominal Power Input	Heating	7℃	65℃	kW	6.13
COP	Heating	7℃	65℃	W/W	2.61
Operation Range (Outdoor Air)	Heating	Min. ~ Max.		°C DB	-20 ~ 35
	Cooling	Min. ~ Max.		°C DB	N/A
Refrigerant	Type			-	R410A
	GWP (Global Warming Potential)			-	2,088
	Charge			kg	3.5
				tCO_2eq	7.3
	Chargeless Pipe Length			m	10
	Additional Charging Volume			g/m	60
Compressor	Quantity	▯		EA	1
	Type	▯		▯	Rotary
Refrigerant Piping Connection	Outer Dia.	Liquid		mm(in)	Ø 9.52 (3/8)
		Gas		mm(in)	Ø 15.88 (5/8)
	Length	Min.		m	5
		Standard		m	7.5
		Max.		m	50
	Level Difference (ODU ~ IDU)	Max.		m	30
Dimensions	Unit	W x H x D		mm	950 x 1,380 x 330
Weight	Unit			kg	105
Sound Power Level	Heating	Rated		dB(A)	5
Power Supply	Phase / Frequency / Voltage			▯ / Hz / V	1 / 50 / 220-240
	Maximum Running Current			A	19
	Recommended Circuit Breaker			A	25

Note :
1. Capacities and power inputs are based on the following conditions:
   - Piping Length : Interconnected Pipe Length ~ 7.5m
   - Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
2. Wiring cable size must comply with the applicable local and national codes.
3. Due to our policy of innovation some specifications may be changed without notification.
4. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases.
6. LWT : Leaving Water Temperature, OAT : Outdoor Air Temperature

Indoor Unit Specification

DESCRIPTION			UNIT	HN1610H.NK2
Operation Range(Leaving Water)	Heating		▯	25 ~ 80
Refrigerant	Type			R134a
	GWP (Global Warming Potential)		-	1,430
	Charge		kg	2.3
			tCO_2eq	3.3
Compressor	Quantity	▯	EA	1
	Type	▯		Rotary
Water Flow Rate	Min.		LPM	15
Piping Connections	Water Circuit	Inlet	mm(in)	Male PT 25(1)
		Outlet	mm(in)	Male PT 25(1)
	Refrigerant Circuit	Gas	mm(in)	Ø 15.88 (5/8)
		Liquid	mm(in)	Ø 9.52 (3/8)
Dimensions	Body	W x H x D	mm	520 x 1,080 x 330
Net Weight	Body		kg	94
Sound Pressure Level	Heating	Rated	dB(A)	43
Power Supply	Phase / Frequency / Voltage		▯ / Hz / V	1 / 50 / 220-240
	Maximum Running Current		A	
	Recommended Circuit Breaker		A	25

Note :
1. Wiring cable size must comply with the applicable local and national codes.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
4. This product contains Fluorinated Greenhouse Gases (R134a).

ACCESSORIES

THERMA V SPECIFICATION

ELECTRIC BACK UP HEATER

HA031M.E1
HA061M.E1

Electrical Specification			HM031M.E1	HA061M.E1
Backup Heater	Type		Sheath	Sheath
	Number of Heating Coil	EA	1	2
	Capacity Combination	kW	3.0	3.0 + 3.0
	Operation		Automatic	Automatic
	Heating Steps	Step	1	2
	Power Supply	V, Ø, Hz	220-240, 1, 50	220-240,1,50
	Maximum Current	A	12.0	24.0
Wiring Connections	Power Cable (included Earth, H07RN-F)	No. x mm^2	3 x 1.5	3 x 4.0
	Communication Cable (H07RN-F)	No. x mm^2	4 x 0.75	4 x 0.75

Note
1. Due to our policy of innovation some specifications many be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes.

DOMESTIC HOT WATER TANK

OSHW-200F
OSHW-300F
OSHW-500F
OSHW-300FD

Domestic Hot Water Tank – Double Coil

DOMESTIC HOT WATER TANK			OSHW-200F	OSHW-300F	OSHW-500F	OSHW-300FD
PRODUCT SPECIFICATION						
General Characteristics	Water Volume	L	200	300	500	300
	Diameter	mm	640	640	640	640
	Height	mm	1,350	1,850	1,900	1,850
	Empty Weight	kg	61	100	146	106
	Tank Materials		STS:F18	STS:F18	STS:F18	STS:F18
	Color		Grey	Grey	Grey	Grey
Specification of Electric Back-up	Additional Electric Heater	W	2,400	2,400	2,400	2,400
	Power Supply	ø / V / Hz	1 / 230 / 50(60)	1 / 230 / 50(60)	1 / 230 / 50(60)	1 / 230 / 50(60)
	Adjustable Thermostat	ø	0 - 90	0 - 90	0 - 90	0 - 90
Specification of Heat Exchanger	Exchanger Type		Single	Single	Single	Double
	Material Exchanger		STS:F18	STS:F18	STS:F18	STS:F18
	Maximum Water Temp	ø	90	90	90	90
	Coil Surface	m2	2.3	3.1	4.8	3.1+0.97
Water Connections	Heat Pump Inlet	inch	1 BSP Female	1 BSP Female	1 1/4 BSP Female	3/4 BSP Female (Upper Coil)
	Heat Pump Outlet	inch	1 BSP Female	1 BSP Female	1 1/4 BSP Female	3/4 BSP Female (Upper Coil)
	Solar Inlet	inch	-	-	-	1 BSP Female (Lower Coil)
	Solar Outlet	inch	-	-	-	1 BSP Female (Lower Coil)
	City Water Inlet	inch	3/4 BSP Male	3/4 BSP Male	1 BSP Male	3/4 BSP Male
	Hot Water Outlet	inch	3/4 BSP Female	1 BSP Female	1 BSP Female	1 BSP Female
Energy Efficiency Class			B	B	B	B
Standing Heat Loss		W	61	70	83	70
MANDATORY ACCESSORIES						
Domestic Hot Water Tank Installation Kit			PHLTA/PHLTB/PHLTC	PHLTA/PHLTB/PHLTC	PHLTA/PHLTB/PHLTC	PHLTA/PHLTB/PHLTC
OPTIONAL ACCESSORIES						
Mixing Valve (3/4" dn20)			OSHA-MV	OSHA-MV	OSHA-MV	OSHA-MV
Mixing Valve (1"dn25)			OSHA-MV1	OSHA-MV1	OSHA-MV1	OSHA-MV1
3-Way Valve			OSHA-3V	OSHA-3V	OSHA-3V	OSHA-3V

LG Wi-Fi MODEM

Control LG THERMA V via using the internet devices as Android or iOS bases smartphones

PWFMDD200

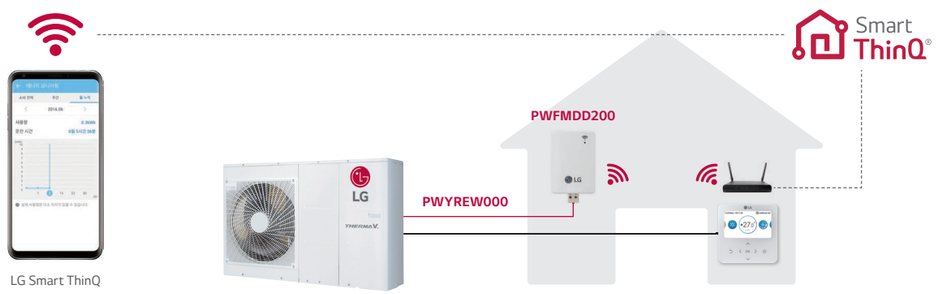
Features

- Access LG THERMA V anytime and from anywhere with Wi-Fi equipped device
- LG's exclusive Home Appliances control app(SmartThinQ) is available
- Simple operation for various functions
  - On/Off - Operation Mode - Current/Set Temperature

MODEL NAME	PWFMDD200
Size (W x H x D, mm)	48 x 68 x 14
Interfaceable Products	THERMA V Split Indoor unit
Connection Type	Indoor unit 1:1
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b/g/n
Mobile Application	LG Smart ThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or higher)
Optional Extension Cable	PWYREW000 (10m extension)

* Functionality may be different according to each IDU model (Monobloc and Split only available)
* User interface of application shall be revised for its design and contents improvement
* 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) For the compatibility with Indoor unit, please contact regional office

Overview



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

ACCESSORIES

Accessories Provided by LG

ACCESSORY	FEATURE
Domestic Hot Water Tank	 Single Coil OSHW-200F 200 LITRES OSHW-300F 300 LITRES OSHW-500F 500 LITRES  Double Coil OSHW-300FD 300 LITRES  3-Way Valve OSHA-3V  Mixing Valve OSHA-MV OSHA-MV1
Domestic Hot Water Tank Kit	• **PHLTA (1Ø, Split)** • **PHLTC (3Ø, Split)** • **PHLTB (Monobloc)** **Features** Easy to install the domestic hot water for monobloc. There is a MCCB to protect the product. Dimension (mm) (H x W x D) : 250 x 170 x 110 Weight (kg) : 2.1 To extend THERMA V functionality in generating domestic hot water. * PHLTA, PHLTC is required only when you want to use the electric heater function at the sanitary tank. If not, it's not necessary. THERMA V indoor unit it self already has electric heater(back up heating) function. * The sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank.  PHLTA / PHLTC  PHLTB
Remote Temperature Sensor	• **PQRSTA0** **Features** It can help to detect the exact room temperature. Applied to ceiling cassette, ceiling concealed duct, AWHP and Hydro Kit. **Parts Included** Remote temperature sensor / Extension cable (15m) / Manual 
Solar Thermal Kit	• **PHLLA** **Features** To interface solar-thermal system with THERMA V and double coil Domestic tank. Installed at the water pipe, between Domestic tank and solar-thermal system. Dimension (mm) (H x W x D) : 110 x 55 x 22 
Dry Contact	• **PDRYCB000** **Features** For connection with boiler (Bivalent scene) 
Drain Pan	• **PHDPB** **Features** Collects condensate water (When dropping to the base is not possible) and drains the water to a pipe 

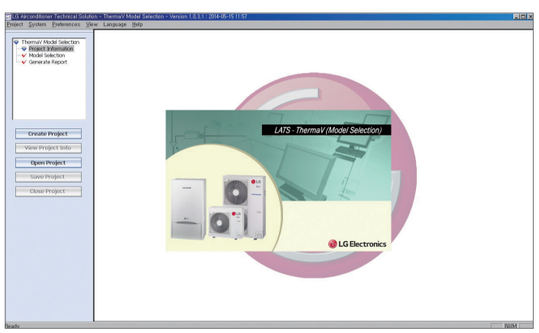
Recommended Optional Accessories

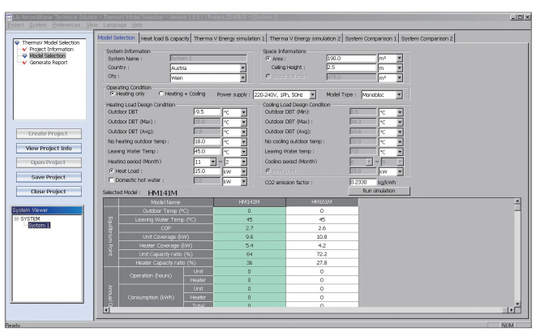
NO.	ACCESSORY	PICTURE	PURPOSE	SPECIFICATION
1	Domestic Hot Water Tank		Store and provide hot water for sanitation	Volume : 200 - 400 l Enameld or stainless-steel tank / Insulating foam (e.g. PUR - polyurethane) heat-exchanger surface ≥ 3 m²
2	3-Way-Valve		Switch between heating and domestic hot water circuit	230V AC SPDT (Single Pole Double Throw) / opening time 30 - 90 sec / final position switch Internal leakage rate < 0,1%
3	Electrical Tank Heater		Supports heating of domestic hot water, when heat pump is blocked or capacity is limited	2 - 6 kW Connector dimension suitable for DHW tank
4	Buffer Tank		Prevents cycling, when water volume is low and /or heating demand is low; secures enough heat for defrosting cycle	Insulating foam (e.g. PUR - polyurethane) Volume : 100 - 200 l (Installation in series with heat pump) 500 ~ 1,000 l (Installation in parallel with heat pump)
5	Bypass Valve		Ensures minimum water flow rate, when flow through heating circuits is limited due to closed valves	Dimensioning according manufacturer adjustable opening pressure
6	2-Way-Valve		Blocks heating circuits, that are not suitable for cooling during cooling operation	230V AC NO or NC type final position switch
7	Expansion Vessel		Absorption of pressure differences in the heating circuits due to temperature increase / decrease of the water	Dimensioning on-site required
8	Strainer		Protects plate-heat-exchanger from blocking particles	1inch / 25.4mm, Mesh size ~ 1 x 1mm for HM03M1.U42 only (other models are included)
9	Heating Cable		Prevents the condensate pan and the drainage pipe from icing	Thermostatic control depending on outdoor temperature All models do have electric heating cable for prevent frost from condensing water at the condensing pan except 3kW capacity.
10	Antifreeze		Prevents the heating water from freezing, when heat pump is out of order	Monoethyleneglycole Concentration according to lowest possible outdoor temperature
11	Noise Damper		Prevents that structure-born noise is transported via the water piping	EPDM; Operating temperature according climate region (at least -10 ~ + 90°C)
12	Anti-Noise Sockets		Prevents that structure-born noise is transported to the base or to the brackets	Dimensioning on-site required
13	Thermostat		When thermostatic room temperature control is preferred by costumer	230V AC When heat pumps operates in heating and cooling mode : thermostat with mode selection
14	Refrigerant Tubes		Pre-fabricated double-pipe to connect split indoor and outdoor unit	Diameter : Please refer to Specification
15	Water Tubes		Pre-fabricated double-pipe to connect monobloc outdoor unit with heating system	When heat pump is used for cooling : diffusion-resistant tubes
16	Bushing Sleeve		Protecting the building against pressing water coming through the duct of the heating tubes	Dimensioning on-site required
17	Insulation Material		Mandatory when heat pump is used for cooling; prevents condensate water on cold pipes and assemblies	Diffusion-resistant

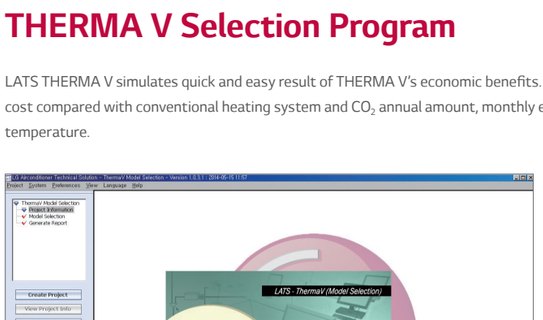
LG LATS THERMA V

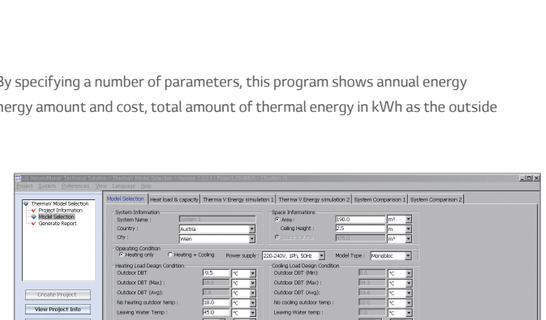
THERMA V Selection Program

LATS THERMA V simulates quick and easy result of THERMA V's economic benefits. By specifying a number of parameters, this program shows annual energy cost compared with conventional heating system and CO_2 annual amount, monthly energy amount and cost, total amount of thermal energy in kWh as the outside temperature.









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