

SINGLE SPLIT



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

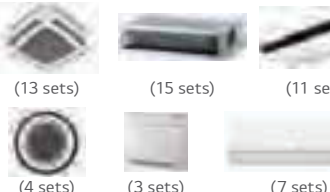
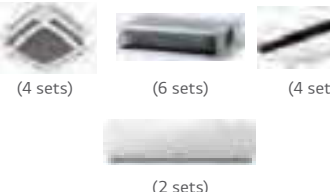
* With controller PREMTB001 / PREMTBB01 / PREMTB100 / PREMTBB10
** Available only for Ceiling Mounted cassette (840 x 840), Ceiling Suspended, Console models.
*** Available with LG Wi-Fi modem(PWFMDD200) and it should be connected to the indoor unit.
**** Available except for Wall Mounted Unit.
***** Weekly program is available with wired remote controller.

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

* With controller PREMTB001 / PREMTBB01 / PREMTB100 / PREMTBB10
** Available only for Ceiling Mounted cassette (840 x 840), Ceiling Suspended, Console models.
*** Available with LG Wi-Fi modem(PWFMDD200) and it should be connected to the indoor unit.
**** Available except for Wall Mounted Unit.
***** Weekly program is available with wired remote controller.

Triple Line-up for On-site Customization

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

H-INVERTER	STANDARD	COMPACT
High Performance	Wide Application	Compact Size
 (13 sets) (12 sets) (7 sets)	 (13 sets) (15 sets) (11 sets)  (4 sets) (3 sets) (7 sets)	 (4 sets) (6 sets) (4 sets)  (2 sets)
Total 32 Sets	Total 53 Sets	Total 16 Sets

Line-up	Description	9k (2.5kW)	12k (3.4kW)	18k (5.0kW)	24k (6.8kW)	30k (8.0kW)	36k (9.5kW)	42k (12.0kW)	48k (13.4kW)	60k (14.6kW)
H-INVERTER (R32) SEER A+++ ~ A++	High Performance - Suitable for high quality functions - Maximum pipe length up to 85m * - Floor Detection Sensor (Default) - Wide Cooling operation range (-20°C ~ 52°C) & 100% Capacity at 48°C * - Wide Heating operation range (-25°C ~ 18°C) & 100% Capacity at -15°C *	 UUA1	 UUB1	 UUC1	 UUD1/3					
STANDARD INVERTER (R32) SEER A++ ~ A+	Wide Commercial Applications - Suitable for wide commercial applications - Maximum pipe length up to 85m* - Synchro Function over 36k Model (Max. 4 IDUs) - Wi-Fi Modem and Floor Detection Sensor (Option) - Wide Cooling operation range (-20°C ~ 52°C)* - Wide Heating operation range (-25°C ~ 18°C)*	 UUA1	 UUB1	 UUC1	 UUD1/3					
COMPACT INVERTER (R32) SEER A++ ~ A	Compact & Cost Effective - Suitable for busy environments and small shops - Very compact and easy to install - Maximum pipe length up to 50m* - Wi-Fi Modem and Floor Detection Sensor (Option) - Cooling operation range (-20°C ~ 50°C)* - Heating operation range (-15°C ~ 18°C)*		 UUA1	 UUB1	 UUC1					

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

H-Inverter : High Performance with lower energy consumption

Capacity
17% ↑
at -15°C




Energy Saving
SEER class : A+++ ~ A++


High heating capacity
at low ambient condition
17% higher than standard


High cooling capacity
at overload condition
7% higher than standard

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

Standard : Wide Application with diverse design range

Total
53 set




Flexible Installation
Max. pipe length up to 85m*


Wide Operation Range
Cooling (DB) : -20 ~ 52 °C*
Heating (WB) : -25 ~ 18 °C*


Energy Saving
SEER class : A+++ ~ A++

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

Compact : Maximize Space Utilization with Compact Size

Height & Face Area
40% Decrease




Compact Size
Smaller Outdoor Unit

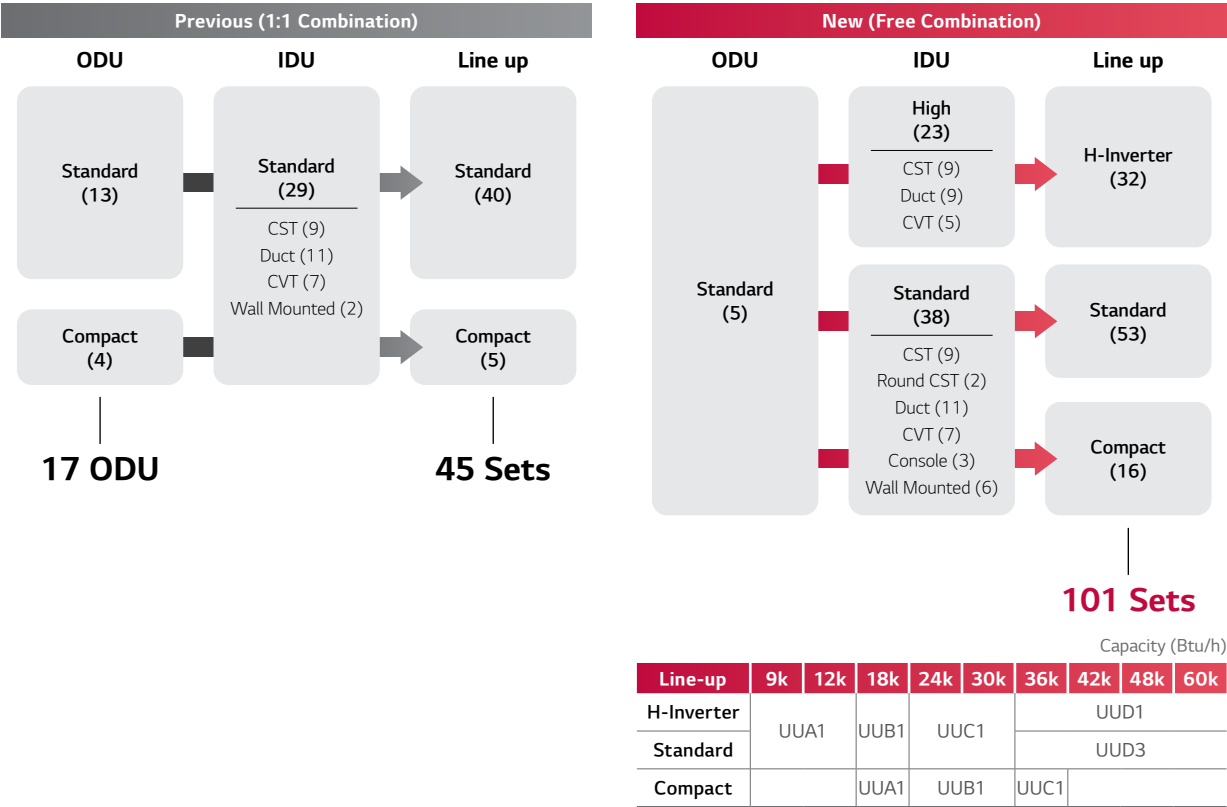

Energy Saving
SEER class : A+++ ~ A++


Flexible Installation
Max. pipe length up to 50m*

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

Free Combination

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



Differentiated Specification

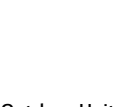
LG Single split provide differentiated features (Performance / Installation / Convenience) by each product line.

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

※ Based on internal test data for 6.8kW model. (compared to 19Y standard model)
※ This specification can be different as per each model or combination.

Expanded Product Type

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

		kW	Type	2.5	3.4	5	6.8	8	9.5	12	13.4	14.6
		kBtu/h	Type	9	12	18	24	30	36	42	48	60
Single Split	Outdoor Units		●	UUA1		UUB1	UUC1	UUD1 UUD3				
			●			UUA1	UUB1	UUC1				
		Ceiling Mounted Cassette	●	●	●	●	●	●	●	●	●	●
			●	●	●	●	●	●	●	●	●	●
			●			●	●	●	●			
		Round Cassette	●						●		●	
		Mid Static	●		●	●	●	●	●	●	●	
			●			●	●	●	●	●	●	●
			●			●	●	●	●			
		Low Static	●		●	●						
			●	●	●	●						
			●			●	●					
		Ceiling Suspended	●			●	●	●	●	●		
			●			●	●	●	●	●	●	●
			●			●	●	●	●			
		Console	●	●	●	●						
			●	●	●	●		●	●			
		Wall Mounted	●	●	●	●	●	●	●			
			●					●	●			

● H-Inverter / ● Standard / ● Compact

Premium Solution for Retail Ceiling Cassette



Maximizing Business, Minimizing Cost

Premium Design & Customer Oriented Functions

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

Energy Savings

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

Ease of Operation and Maintenance

- Convenient control via smartphone
- Intuitive wired remote controller

Customized Solution for Office Ceiling Cassette

Supporting Efficiency with Fresh and Comfort Air

Comfortable Office Environment

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

Energy Savings

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

Ease of Operation and Maintenance

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



Comfort Solution for Residential Ceiling Concealed Duct



Creating a Comfortable Home with Low Cost

Simple & low cost Installation for Entire House

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

Energy Savings

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

Ease of Operation

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

Optimized Solution for Technical Wall Mounted

Reliable and Efficient Technical Cooling

Reliability

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

Energy Savings

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

Ease of Operation and Maintenance

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



SEER / SCOP

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



SEER / SCOP class

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

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

European Energy Labeling

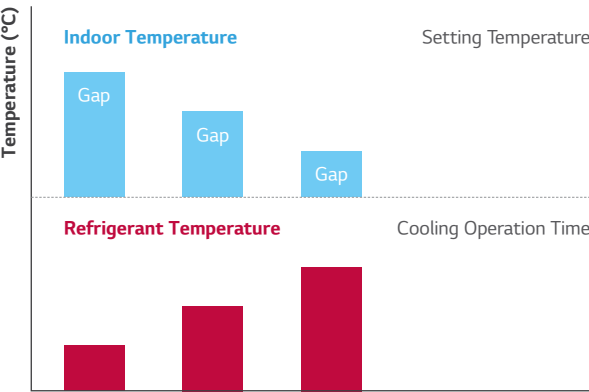
	SEER	SCOP
A+++	SEER ≥ 8.5	SCOP ≥ 5.1
A++	6.1 ≤ SEER < 8.5	4.6 ≤ SCOP < 5.1
A+	5.6 ≤ SEER < 6.1	4.0 ≤ SCOP < 4.6
A	5.1 ≤ SEER < 5.6	3.4 ≤ SCOP < 4.0
B	4.6 ≤ SEER < 5.1	3.1 ≤ SCOP < 3.4
C	4.1 ≤ SEER < 4.6	2.8 ≤ SCOP < 3.1
D	3.6 ≤ SEER < 4.1	2.5 ≤ SCOP < 2.8

※ Based on Ceiling Cassette (6.8 kW)

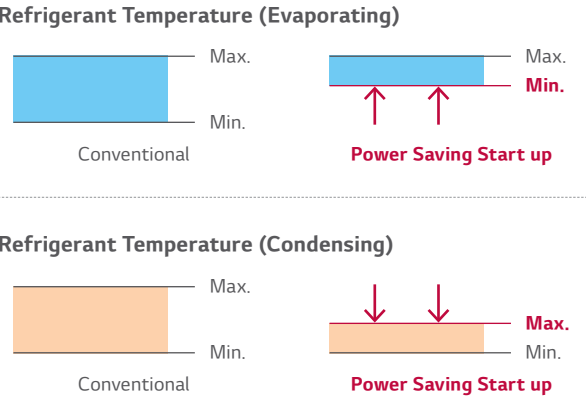
Energy Savings

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

Comfortable Indoor Air

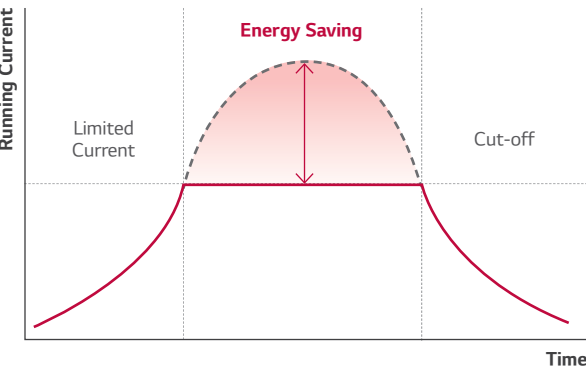


Energy Saving



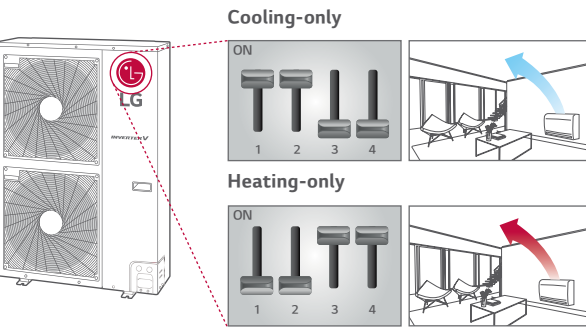
Peak Current Control

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



Mode Lock

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



Comfort with Temperature & Humidity Sensors

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



DUAL SENSING CONTROL

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

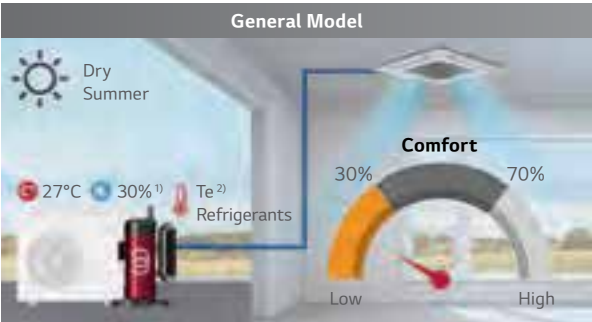
Humidity

Temperature

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

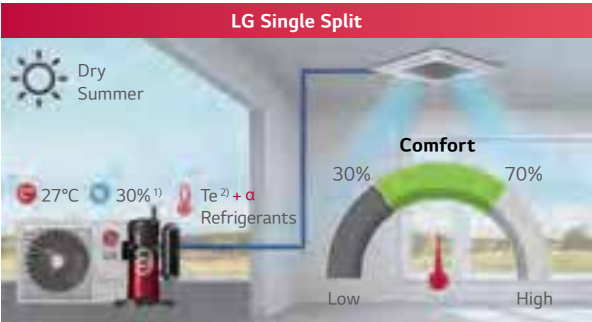
Dry Summer

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



- **Uncomfortable Environment**
Excessive latent heat elimination regardless of humidity
- **Waste Energy**
Eliminate latent heat unnecessarily

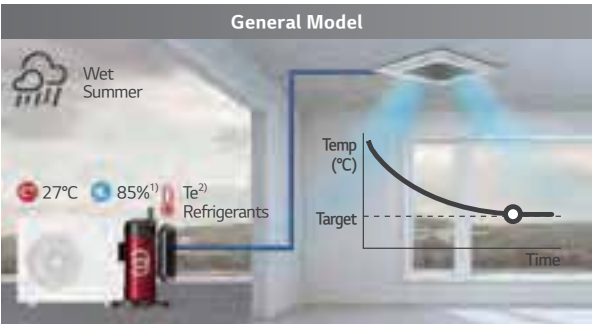
※ Humidity Condition : Low (<30%), Standard (30~70%)
1) Indoor Condition 2) Evaporation Temperature



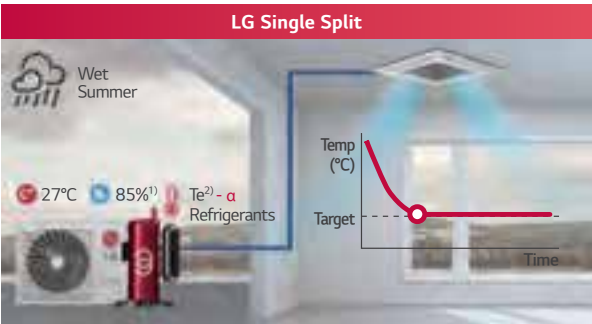
- **Comfortable Environment**
By making the room less dry
- **Increased Energy Efficiency**
Provide optimized cooling and save energy considering humidity

Wet Summer

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



- **Uncomfortable Environment**
General latent heat elimination regardless of humidity
- 1) Indoor Condition 2) Evaporation Temperature



- **Comfortable Environment**
Quick latent heat elimination with humidity sensors

Night Silent Operation

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

Up to 8dB(A)*

Sound Level

8 hours

Max load

Night silent operation

On

9 hours

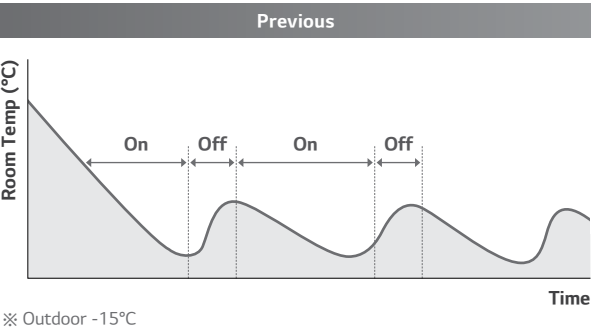
Mode Start

※ Refer to the install manual for details.
(Setting method, operation time)

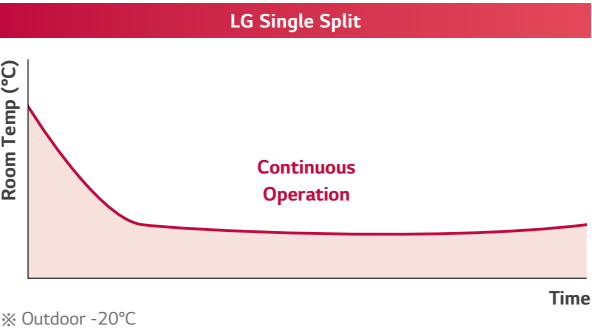
* The value is based on 14.6kW model.

Continuous Cooling Operation

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



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

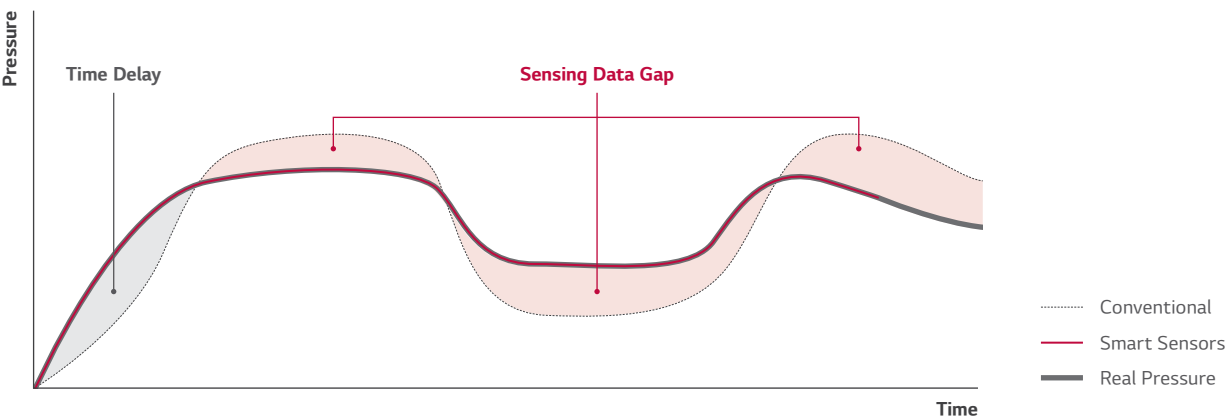
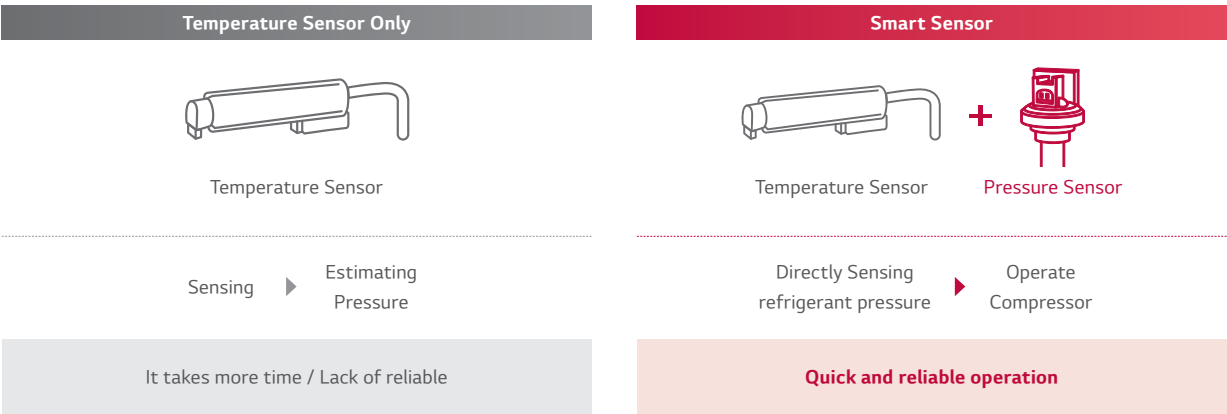


※ Based on a stand 36k model. (after 2019)

Quick & Reliable Operation

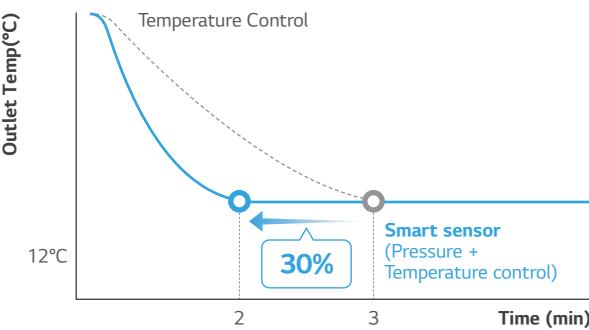
Through pressure and temperature sensing, the desired indoor temperature can be reached more rapidly.

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



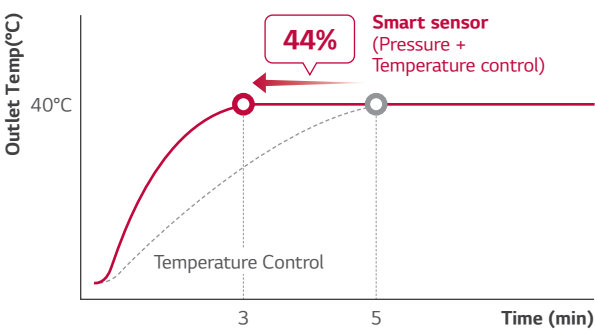
• With pressure sensing, the desired temperature is achieved in 30% less time in cooling and 44% in heating.

Cooling



※ Based on internal test data.

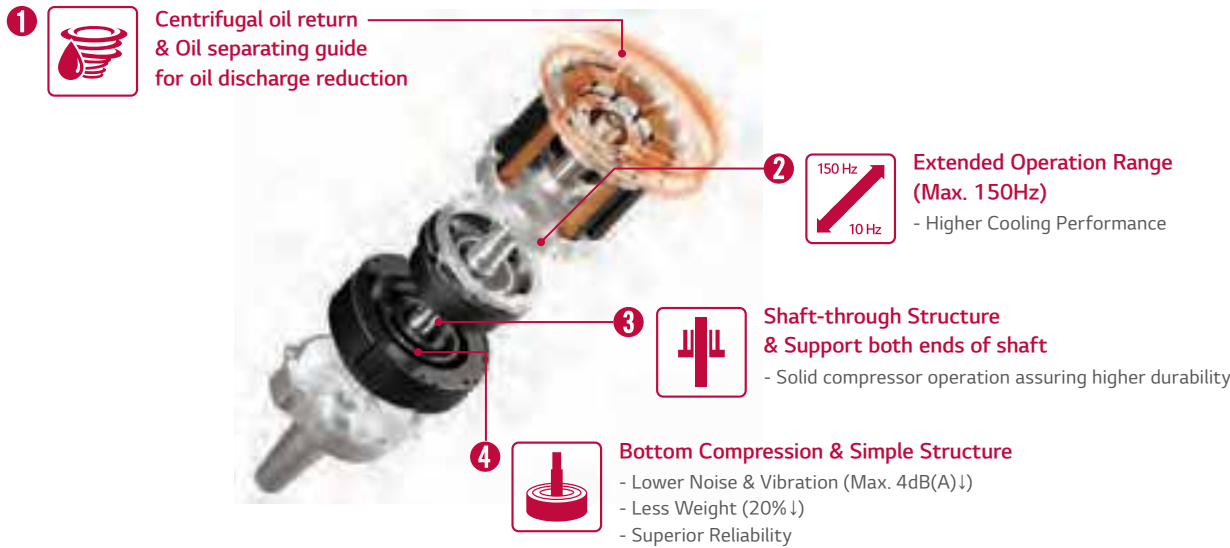
Heating



※ Based on internal test data.

R1Compressor™

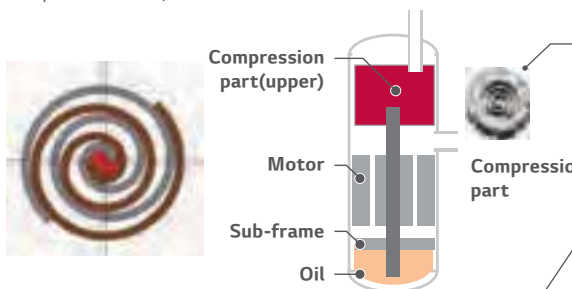
R1 Compressor is one that combines high-efficiency, low sound characteristics of the scroll and the simple compressing structure of the rotary compressor. This technology enables a highly efficient compact model.



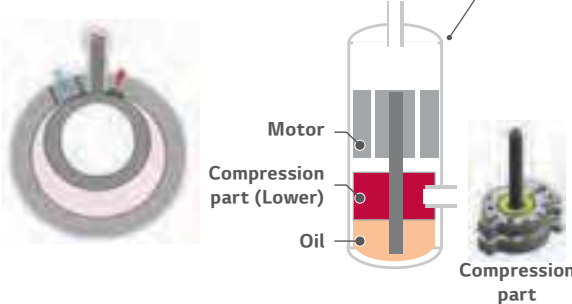
Conventional Compressor

Scroll

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



Rotary : Simple structure (Compression per 1 rotation)

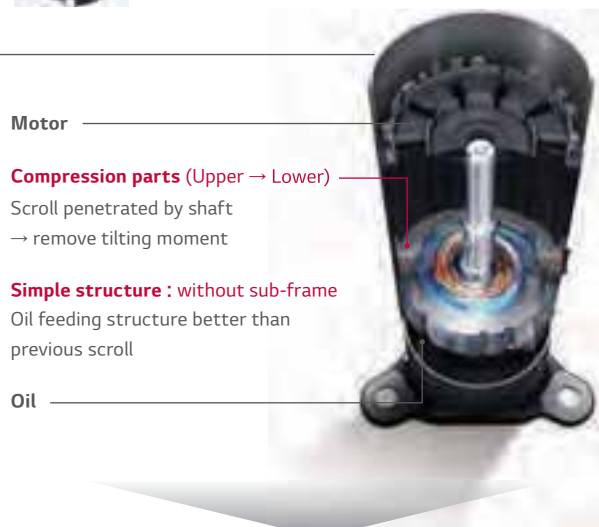


R1Compressor™

Revolutionary Scroll

High efficiency / Stable & Simple Structure

Hybrid Scroll Shape (LG patent)*
* Patent registration number (S.Korea : 10-1059880, USA : RE46106)

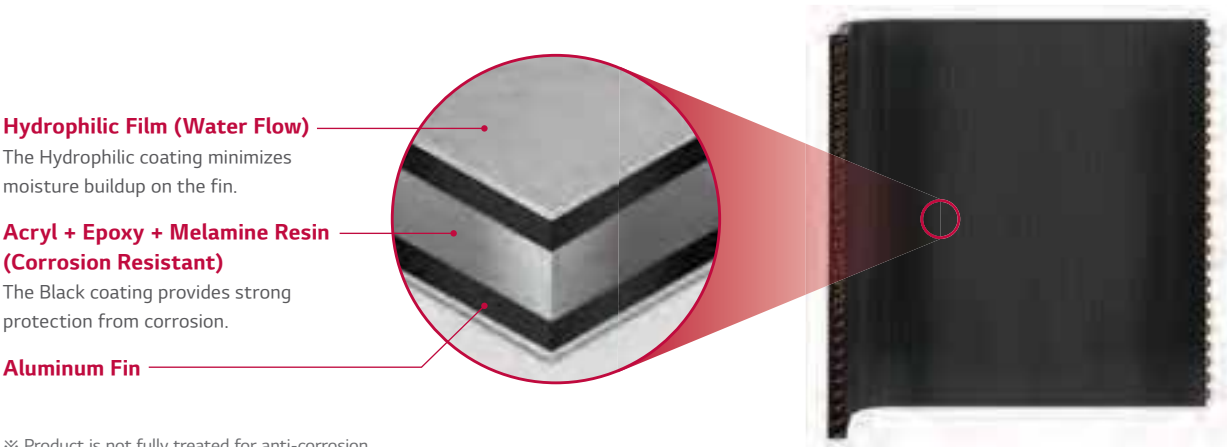


Extended operation (Max. 150Hz)
Low noise & Vibration (Max. 4dB(A)↓)
Less weight (20%↓)

Corrosion Resistance Black Fin

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

Longer Lifespan, Lower Maintenance Costs



Hydrophilic Film (Water Flow)

The Hydrophilic coating minimizes moisture buildup on the fin.

Acryl + Epoxy + Melamine Resin (Corrosion Resistant)

The Black coating provides strong protection from corrosion.

Aluminum Fin

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

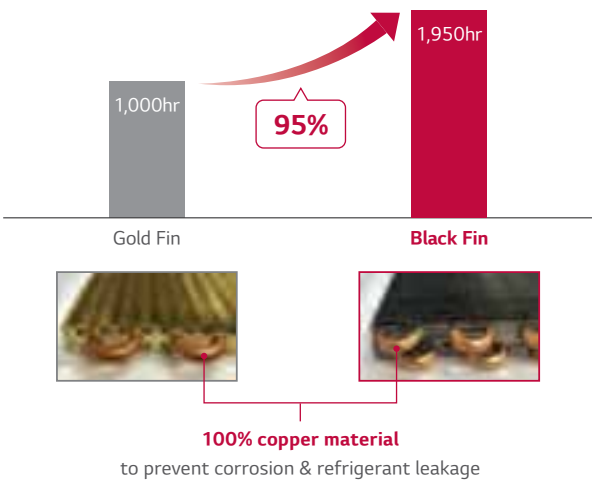
SST (Salt Spray Test)

Test Process



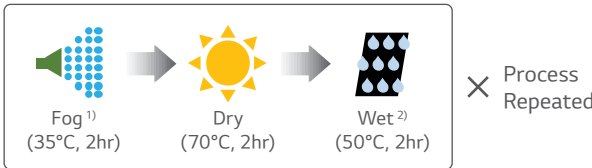
Test process is conducted according to ISO 9227.
1) Salty water concentration : NaCl aqueous solution (5%)

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



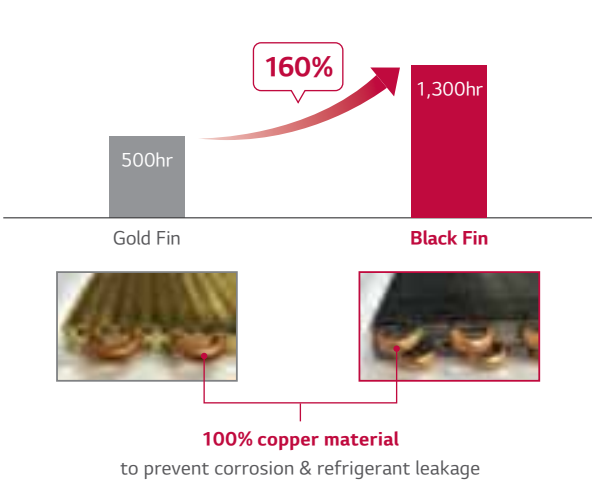
CCT (Cyclic Corrosion Test)

Test Process



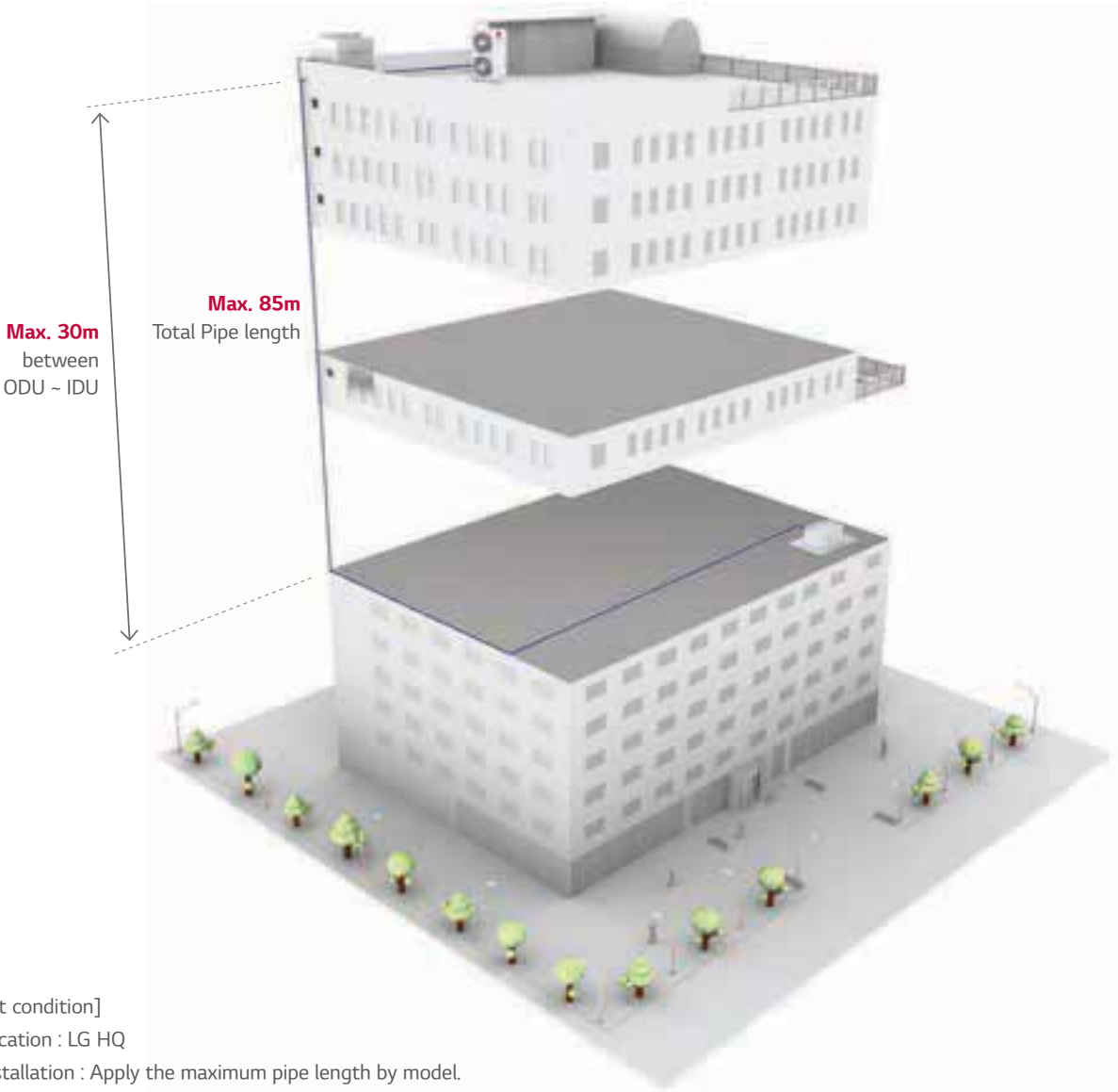
Test process is conducted according to ISO 14933.
1) Salty water concentration : NaCl aqueous solution (5%)
※ Dry condition changed : 60°C, 4hr → 70°C, 2hr
2) Deionized water

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



Long Pipe Installation

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



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

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

* Compact 6.8 / 8.0kW

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



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

Access your air conditioner anytime and from anywhere



Simple operation for various functions

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

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

Easy Control (Central Controller)

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



1 Point External Input (On / Off Control)

Indoor unit can be controlled by external devices without dry contact, so customers can save cost of installation.

Connection between an indoor unit and external devices directly

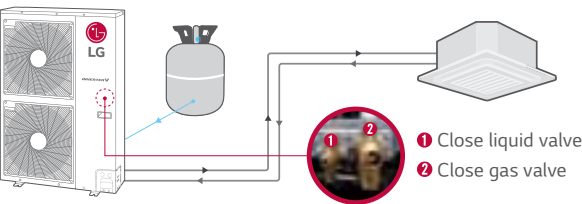


※ In case of needing more functions beside on / off control, a dry contact is required to be installed.

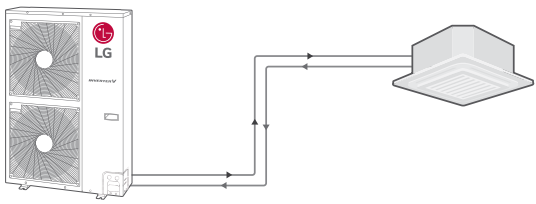
Forced Cooling Operation

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

Recharging



Pump Down



Mobile LGMV

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



Error Indicator

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

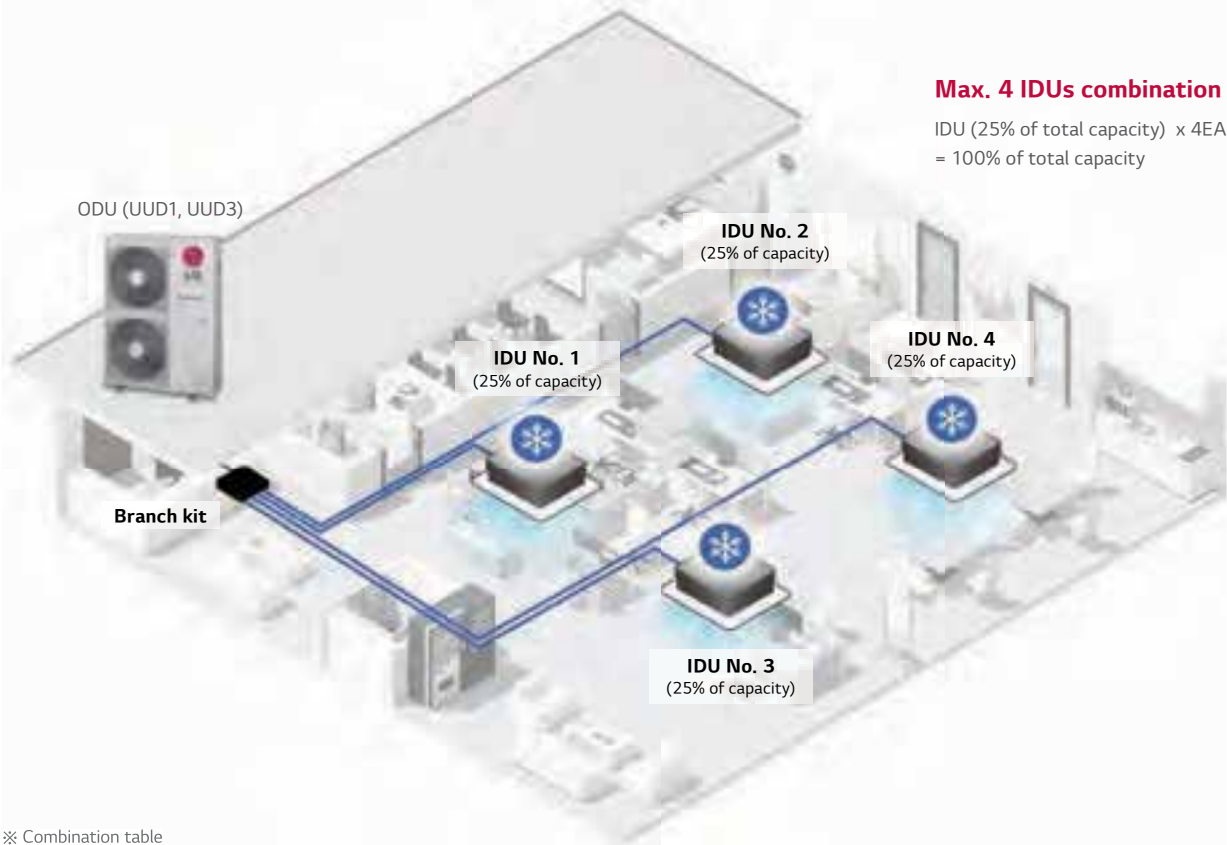


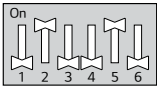
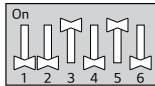
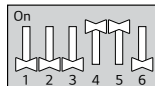
A technician not only can check the cycle information with diagrams & graph, but also check easily the error status (Troubleshooting guide) and take action immediately.

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

Synchro function

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



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

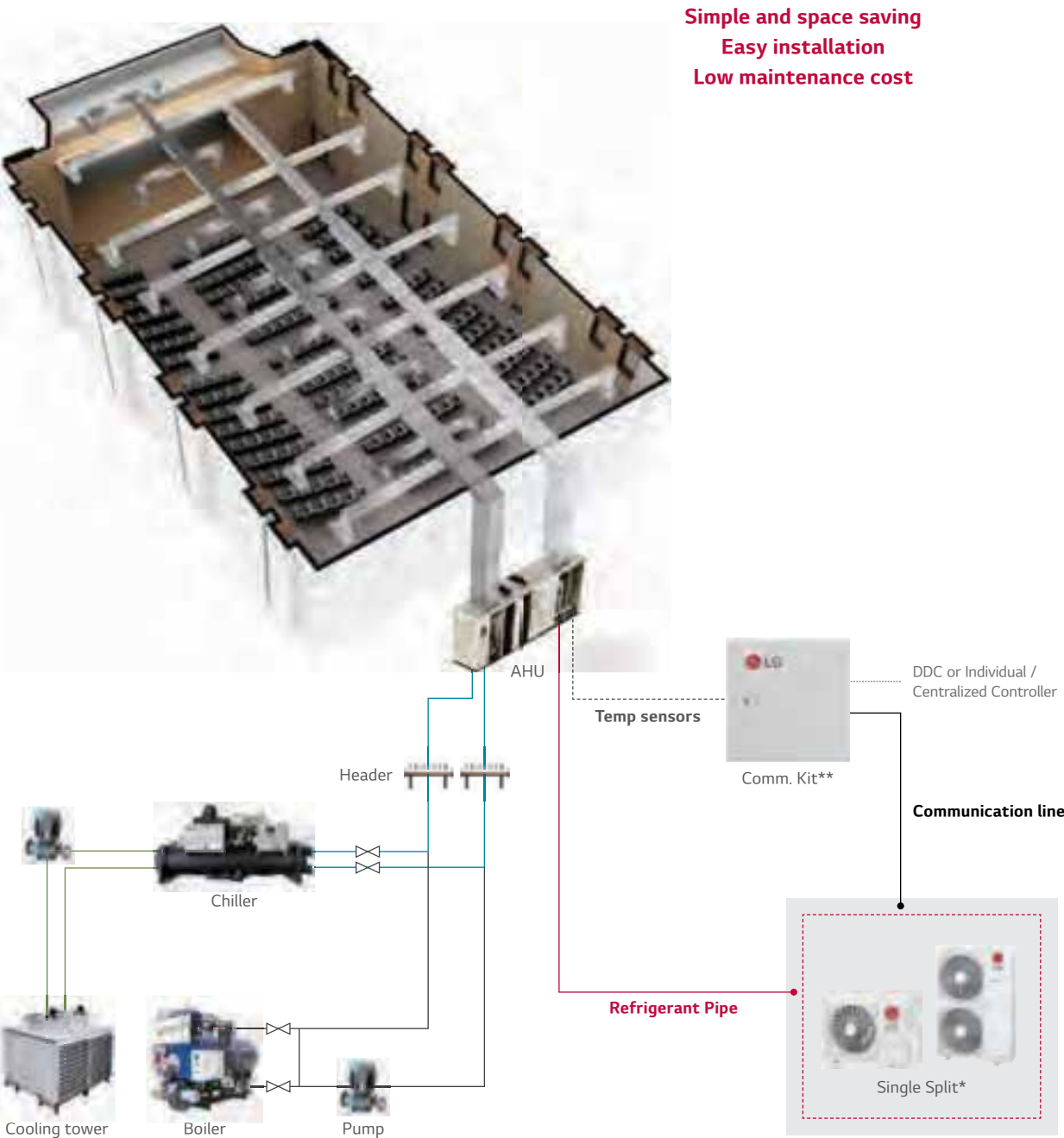
- Note
- Possible indoor units : Single CAC indoor unit series
 - Dry contact & Zone control & Auto changeover is not available which is connected with synchro.
 - When using synchro operation
 - Do not use wireless remote controller.
 - Use only one wired remote controller in the indoor units.
 - Some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

Connection with AHU

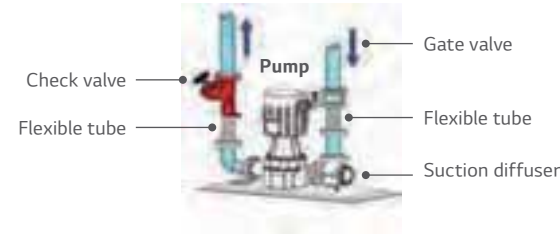
Single split can be connected to AHU using communication kit.

COMPLICATED

SIMPLE



Complicated piping work



- * The single model can be applied only to UUB1, UUC1, UUD1, UUD3
- ** Model name of communication kit
- RA air temperature control : PAHCMR000
 - SA air temperature control : PAHCMS000

WALL MOUNTED

WALL MOUNTED

COMMERCIAL

SINGLE SPLIT

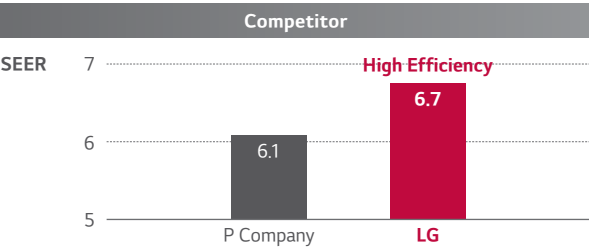
Saving Operation Cost

High Energy Efficiency



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

Server room need to be operated continuously.
That's why server room owners want to use high energy efficient air conditioning.
LG solution saves annual operation cost for server room due to high SEER.



※ P Company 7.1kW Solution / Outdoor unit : 7.1kW
Indoor unit : 7.1kW Wall mounted unit
※ Performances are based on the following conditions :
• Cooling : Indoor Temp. 27°CDB / 19°CWB, Outdoor Temp. 35°CDB / 24°CWB
• Heating : Indoor Temp. 20°CDB / 15°CWB, Outdoor Temp. 7°CDB / 6°CWB
• Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is 0m.

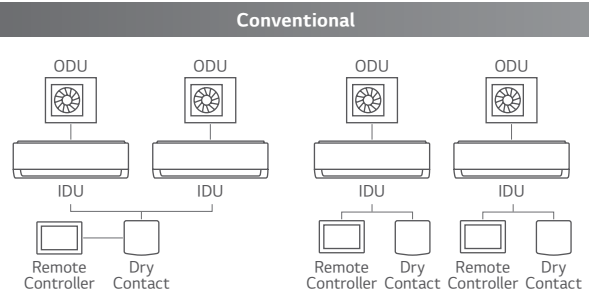
LG Server Room Solution						
SEER class (ErP regulation)						
	2.5kW	3.4kW	5.0kW	6.8kW	8.0kW	9.5kW
SEER	7.0 (A++)	6.6 (A++)	6.8 (A++)	6.7 (A++)	7.0 (A++)	6.1 (A++)
SCOP					4.3 (A+)	3.85 (A+)

SEER class (ErP regulation)			
A+++	SEER≥8.5	B	4.6 ≤ SEER < 5.1
A++	6.1 ≤ SEER < 8.5	C	4.1 ≤ SEER < 4.6
A+	5.6 ≤ SEER < 6.1	D	3.6 ≤ SEER < 4.1
A	5.1 ≤ SEER < 5.6		

Easy Installation

Simplified connection

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



- **Higher product cost**
Conventional system needs dry contact and 3rd party control individual remote controller(s).
- **Higher installation cost**
Need less labor and time for design, installation, cabling and test.
- **Design & Installation difficulties**
It is difficult to make if you need to control more indoor units.

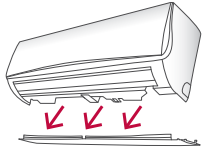


- **Lower product cost**
Only LG remote controller needed for max.4 ODU's and IDU's.
- **Lower installation cost**
Need less labor and time for design, installation, cabling and test.
- **Easy Design & Installation**
It provides easy design and installation because it has simple system with LG controller even in case of more number of ODU's and IDU's(Max.4).

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

Detachable Bottom Cover

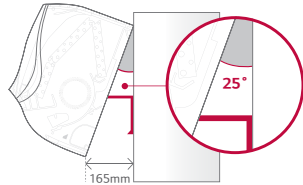
The bottom cover is detachable when needed, making installation easier. Disassembly or additional support of the unit is unnecessary. Installation can be completed by one individual with LG's patented support tool.



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

Installation Support Clip

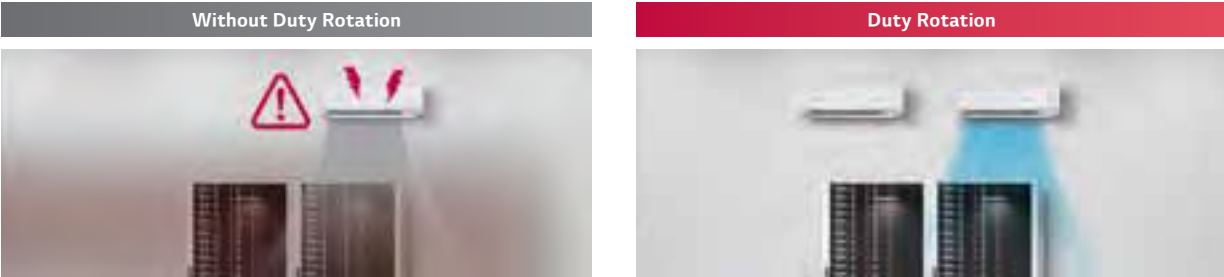
A support clip creates adequate space between the wall and the unit for easier installation.



Stable & Reliable Operation

Duty Rotation

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



- Air Conditioners' Overworking**
 - Reducing air conditioner's life time
 - Reducing compressor's life expectancy
 - The service cost may increase due to air conditioner's overworking
- Stable & Safe Operation**
 - Stable operation due to indoor units take turns
 - Less breakdown and keeping server room operation
 - Increase air conditioner's life expectancy
 - Rotation interval can be set from 1h to 999h freely.

Operation Scenario

When the number of the indoor units : 2

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

Failure Back-up

If systems in operation have error and stop, the standby unit starts operation automatically.



- Server can be Shut Down**
 - Server room overheated and server can be shut down.
 - Probability of increased service cost
 - Need manual monitoring and operation for failure
- Stable & Safe Operation**
 - Stable operation because the operation error can be covered by failure back-up operation
 - Continue server operations and decrease risk
 - Protect server from overheating
 - Less manual work

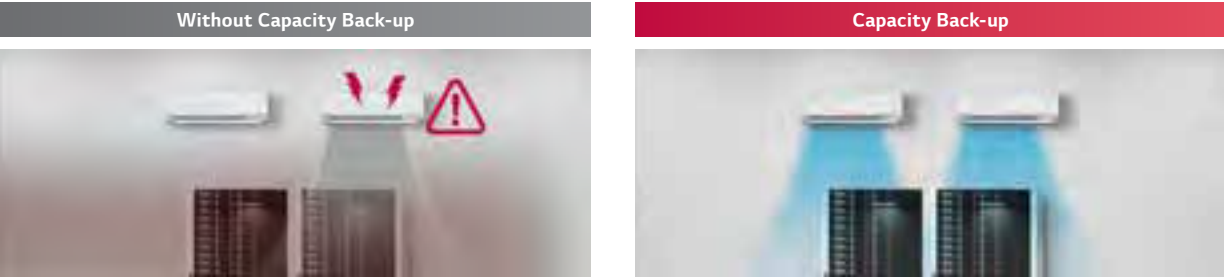
Operation Scenario

When the number of the indoor units : 2

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

Capacity Back-up

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



- Server can be Overheated**
 - Sometimes server room can be overheated because of server overload
 - Server can be shut down when they overheat continuously
 - Air conditioners overload
 - Need manual controls for additional cooling
- Stable & Safe Operation**
 - Stable operation due to the over capacity by back-up operation
 - Prevent air conditioners from overload
 - Protect server from overheating
 - No need for manual controls as they protect from overheating automatically

Operation Scenario

When the number of the indoor units : 2

The set temperature difference is A, and the difference between the cooling set temperature and the current room temperature is B,
❶ When duty rotation is enabled, IDU #1 is in operation and IDU #2 is on standby.
❷ If B is higher than A, the standby unit starts operation.
❸ When B goes down and remains below A for some time, The backup unit stops and goes back to standby mode.

If cooling set temperature is 22°C and the set temperature difference is 4°C.

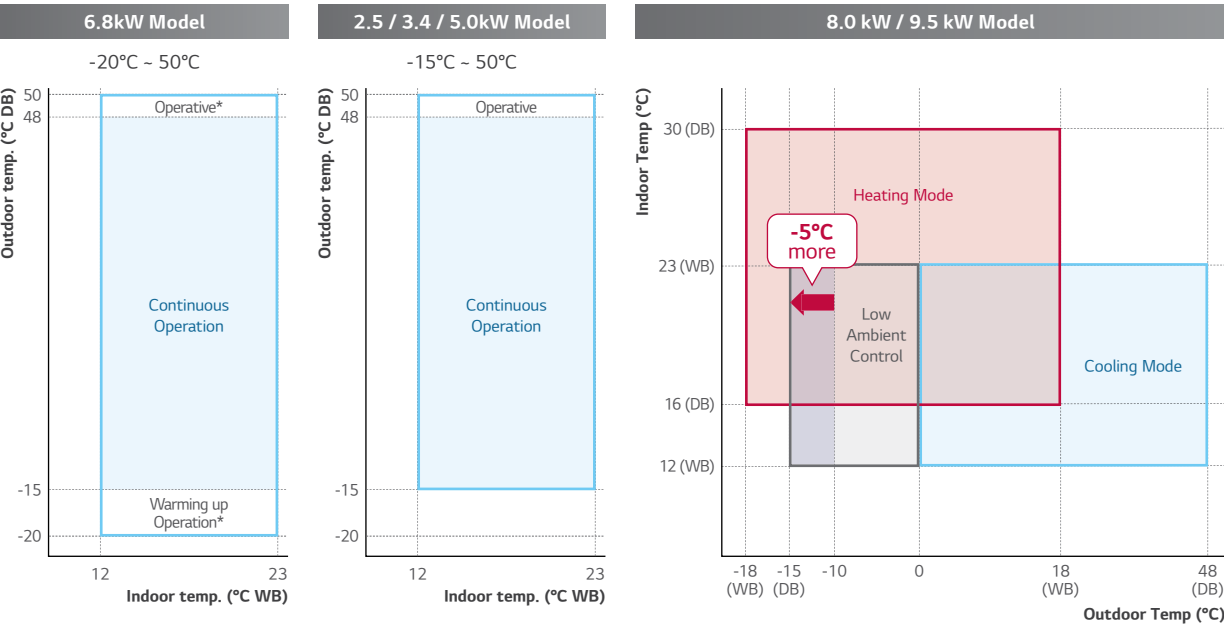
When current temperature goes above 26°C, the standby unit starts operation.

If current temperature drops and remains below 26 °C for some time, the backup unit stops.

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

Wide Operational Range

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



* Warming up operation and operative means that the outdoor unit operates to reach the range of continuous operating, however it may not operate continuously due to safety or protection logic.

STANDARD INVERTER (R32)

MJ09PC / MJ12PC



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

UUA1 ULO



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

STANDARD INVERTER (R32)

MJ18PC / MJ24PC



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

UUB1 U20



UUC1 U40



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

STANDARD INVERTER (R32)

US30F / US36F



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

UUC1 U40



UUD1 U30



UUD3 U30



COMBINATION				30	36	36
Capacity	Cooling	Min. / Rated / Max.	kW	3.2 / 8.0 / 9.0	3.8 / 9.5 / 12.5	3.8 / 9.5 / 12.5
	Heating	Min. / Rated / Max.	kW	3.6 / 9.0 / 10.0	4.3 / 10.8 / 13.4	4.3 / 10.8 / 13.4
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0.50 / 2.28 / 3.17	0.30 / 2.57 / 3.91	0.30 / 2.57 / 3.91
	Heating	Min. / Rated / Max.	kW	0.50 / 2.5 / 3.20	0.50 / 2.77 / 3.77	0.50 / 2.77 / 3.77
Running Current	Cooling	Rated	A	10.1	11.4	4.1
	Heating	Rated	A	11.1	12.2	4.4
EER / COP			kWh / kWh	3.51 / 3.60	3.70 / 3.90	3.70 / 3.90
SEER / SCOP			kWh / kWh	7.0 / 4.3	6.10 / 3.85	6.10 / 3.85
Pdesign	Cooling @ 35°C		kW	8	9.5	9.5
	Heating @ -10°C		kW	5.4	8.7	8.7
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A	A++ / A
Annual Energy Consumption	Cooling / Heating		kWh	400 / 1,758	545 / 3,164	545 / 3,164
Dehumidification Rate			l/h	2.9	3.8	3.8
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 52	50 / 50	50 / 50
ODU Sound Power Level	Cooling	Rated	dB(A)	68	66	66
Piping Connections	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)
	Connections Method		-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-20 ~ 50	-20 ~ 52	-20 ~ 52
	Heating	Min. / Max.	°C	-20 ~ 18	-25 ~ 18	-25 ~ 18
INDOOR				US30F NR0	US36F NR0	US36F NR0
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	47 / 42 / 36	65 / 47 / 42	65 / 47 / 42
Air Flow Rate		H / M / L	m3/min	21 / 17 / 13	25 / 21 / 17	25 / 21 / 17
Dimensions	Body	W x H x D	mm	1,200 x 360 x 265	1,200 x 360 x 265	1,200 x 360 x 265
Weight	Body		kg	18.3	18.3	18.3
Sound Pressure Level	Cooling	H / M / L	dB(A)	46.0 / 42.0 / 38.0	51.0 / 46.0 / 42.0	51.0 / 46.0 / 42.0
Sound Power Level	Cooling	Max.	dB(A)	62	65	65
Piping Connections	Drain	O.D. / I.D.	mm	Ø21.5 / 16.0	Ø21.5 / 16.0	Ø21.5 / 16.0
OUTDOOR				UUC1 U40	UUD1 U30	UUD3 U30
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	3 / 380-415 / 50
Circuit Breaker		Min.	A	25	40	20
Power Supply Cable (Included Earth)			No x mm ³	3C x 2.5	3C x 6.0	5C x 2.5
Dimensions	Net	W x H x D	mm	950 x 834 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Weight	Net		kg	57.7	85	85
Compressor	Type		-	Twin Rotary	Inverter Scroll	Inverter Scroll
	Type		-	R32	R32	R32
Refrigerant	GWP (Global Warming Potential)		-	675	675	675
	Precharged Amount		kg	1.9	3.0	3.0
	t-CO ₂ eq		-	1.283	2.025	2.025
	Additional Charge (After 7.5m)		g/m	40	40	40
Fan	Air Flow Rate	Rated	m³/min x No.	58 x 1	55 x 2	55 x 2
Total Piping Length		Min. / Max.	m	5 / 50	5 / 85	5 / 85
Piping Elevation	IDU - ODU	Max.	m	30	30	30

Note :

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

COMPACT INVERTER (R32)

US30F / US36F



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

UUB1 U20



UUC1 U40



COMBINATION				30	36
Capacity	Cooling	Min. / Rated / Max.	kW	3.0 / 7.5 / 8.3	3.8 / 9.5 / 10.6
	Heating	Min. / Rated / Max.	kW	3.1 / 7.7 / 8.5	4.3 / 10.8 / 11.5
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0.50 / 2.31 / 2.77	0.60 / 3.06 / 3.67
	Heating	Min. / Rated / Max.	kW	0.40 / 2.14 / 2.78	0.60 / 3.0 / 3.72
Running Current	Cooling	Rated	A	10.1	13.6
	Heating	Rated	A	9.3	13.3
EER / COP			kWh / kWh	3.25 / 3.60	3.10 / 3.60
SEER / SCOP			kWh / kWh	6.8 / 4.1	6.4 / 4.1
Pdesign	Cooling @ 35°C		kW	7.5	9.5
	Heating @ -10°C		kW	4.3	5.8
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	386 / 1,468	520 / 1,980
Dehumidification Rate			l/h	3.0	3.5
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 54	54 / 56
ODU Sound Power Level	Cooling	Rated	dB(A)	67	70
Piping Connections	Liquid		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method		-	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-10 ~ 48	-20 ~ 50
	Heating	Min. / Max.	°C	-15 ~ 18	-15 ~ 18
INDOOR				US30F NR0	US36F NR0
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	47 / 42 / 36	65 / 47 / 42
Air Flow Rate		H / M / L	m3/min	21 / 17 / 13	25 / 21 / 17
Dimensions	Body	W x H x D	mm	1,200 x 360 x 265	1,200 x 360 x 265
Weight	Body		kg	18.3	18.3
Sound Pressure Level	Cooling	H / M / L	dB(A)	46.0 / 42.0 / 38.0	51.0 / 46.0 / 42.0
Sound Power Level	Cooling	Max.	dB(A)	62	65
Piping Connections	Drain	O.D. / I.D.	mm	Ø21.5 / 16.0	Ø21.5 / 16.0
OUTDOOR				UUB1 U20	UUC1 U40
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker		Min.	A	20	25
Power Supply Cable (Included Earth)			No x mm ³	3C x 2.5	3C x 2.5
Dimensions	Net	W x H x D	mm	870 x 650 x 330	950 x 834 x 330
Weight	Net		kg	44.5	57.7
Compressor	Type		-	Twin Rotary	Twin Rotary
	Type		-	R32	R32
Refrigerant	GWP (Global Warming Potential)		-	675	675
	Precharged Amount		kg	1.2	1.9
	t-CO ₂ eq		-	0.81	1.283
	Additional Charge (After 7.5m)		g/m	40	40
Fan	Air Flow Rate	Rated	m³/min x No.	50 x 1	58 x 1
Total Piping Length		Min. / Max.	m	5 / 35	5 / 50
Piping Elevation	IDU - ODU	Max.	m	30	30

Note :

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

Communication Kit



PAHCMR000 / PAHCMS000

Specification

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

Function list for Communication kit

FUNCTION LIST*		PAHCMR000	PAHCMS000	NOTE
Control	Comm. Kit Operation	On / Off	On / Off	
	Operation Mode 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

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

ACCESSORIES



LG Wi-Fi Modem

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



PWFMD200

Features

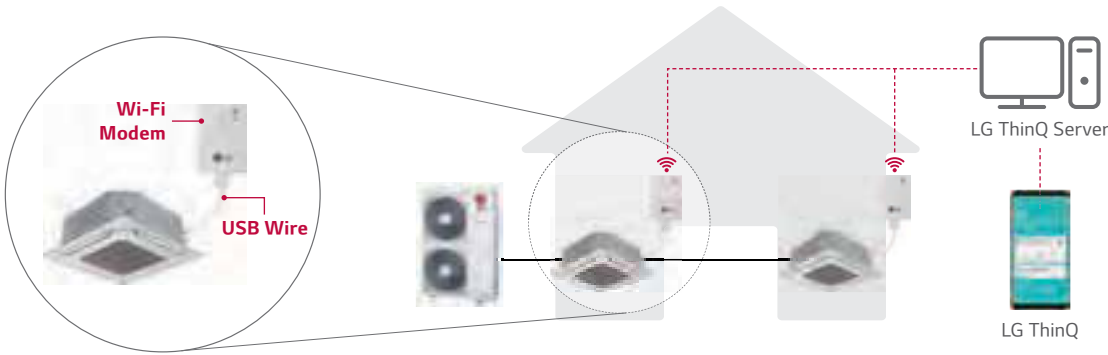
- User can enjoy anytime, anywhere access with Wi-Fi equipped device through LG's ThinQ mobile app.
- This allows the user to access the unit remotely to switch unit on or off before or after leaving the vicinity.
- LG's exclusive Home Appliances control app (LG ThinQ) is available.
- Simple operation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

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

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



Overview



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

Standard Wired Remote Controller



Standard III
PREMTB100



Standard III
PREMTBB10



Standard II
PREMTB001



Standard II
PREMTBB01

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

※ Refer to each model PDB for applicable models.

Remote Controller



PWLSSB21H

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 / Therna V

※ Refer to each product PDB for applicable models.

Dry Contact



PDRYCB000



PDRYCB400



PDRYCB320



PDRYCB500

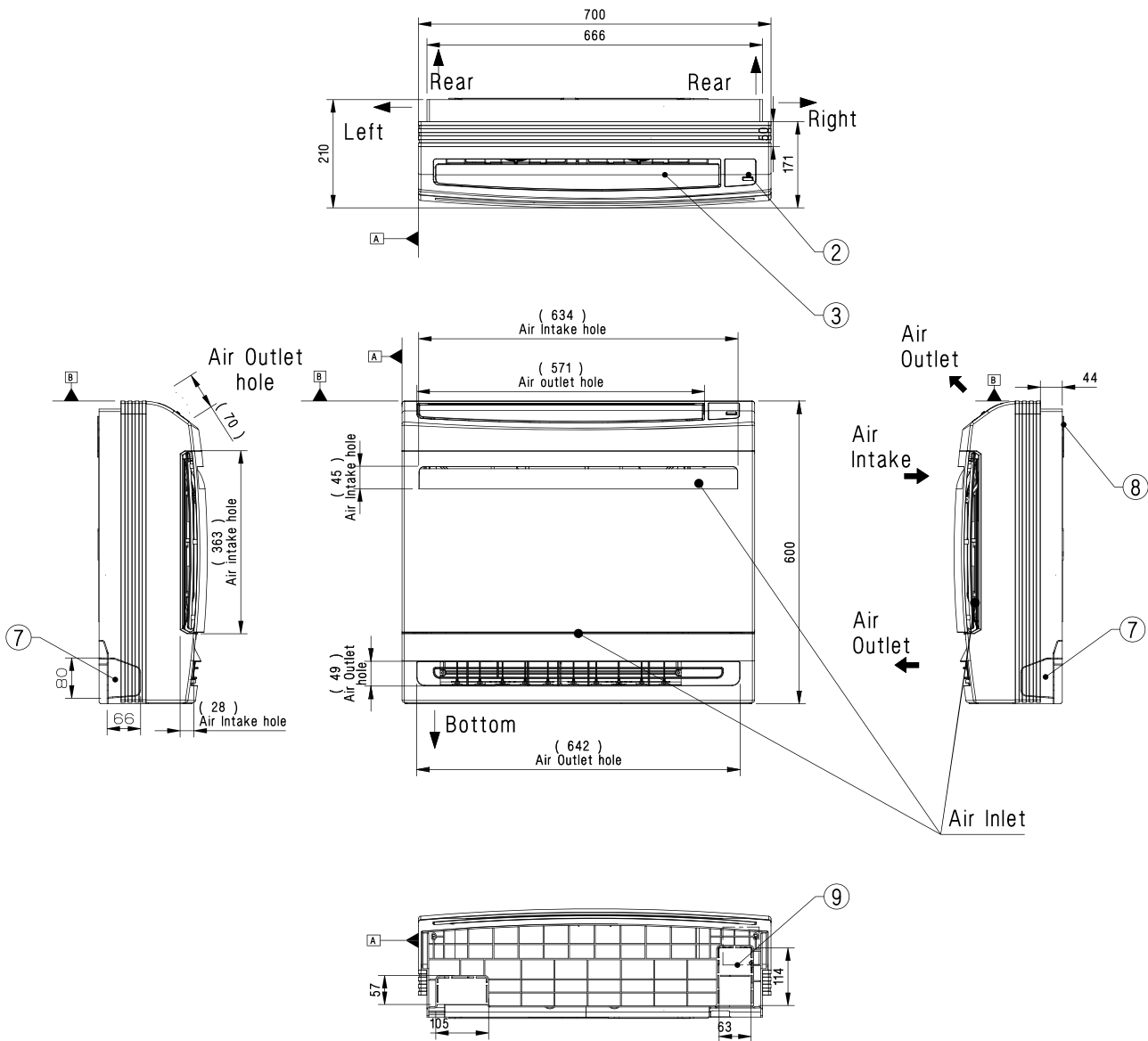
Model	PDRYCB000	PDRYCB400	PDRYCB320	PDRYCB500
Contact Point	1 Control Point	2 Control Point	8 Control Point	Modbus RTU
Power Input	AC 220V from outside power source	DC 5V & 12V from indoor unit PCB	DC 5V & 12V from indoor unit PCB	DC 5V & 12 V from indoor unit PDB
Voltage / Non Voltage Input	-	•	•	-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

※ Refer to each product PDB for applicable models.

STANDARD INVERTER (R32)
UQ09 NAO / UQ12 NAO / UQ18 NAO

(Unit : mm)

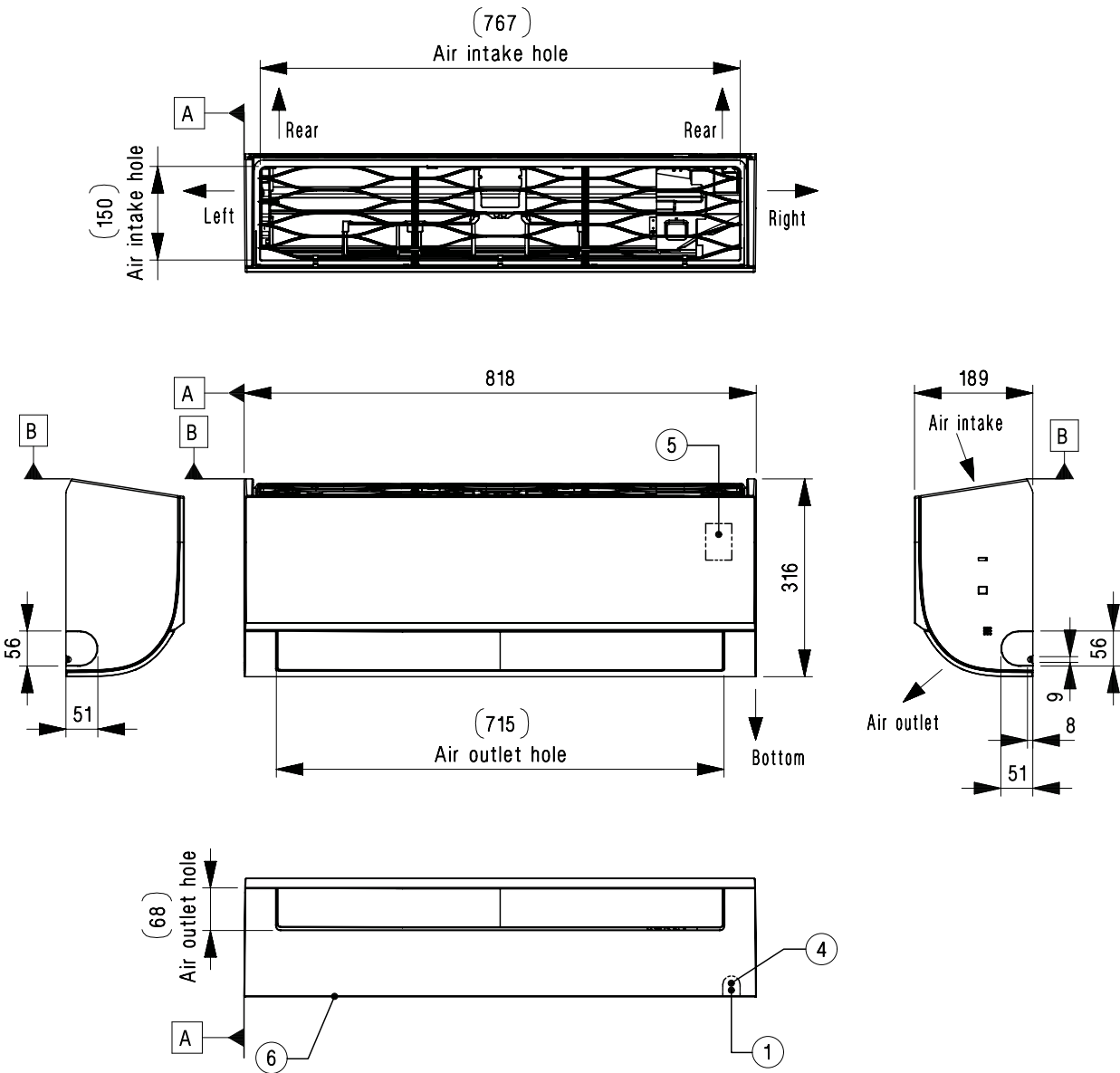
	PART NAME
1	Air Suction Grille
2	Remote Controller Signal Receiver
3	Air Discharge Grille
4	Gas Pipe Connection
5	Liquid Pipe Connection
6	Drain Hose Connection
7	Refrigerant / Drain Pipe & Cable Routing Hole
8	Installation Plate
9	Terminal Block for Power Supply & Communication



STANDARD INVERTER (R32)
MJ09PC NSJ / MJ12PC NSJ

(Unit : mm)

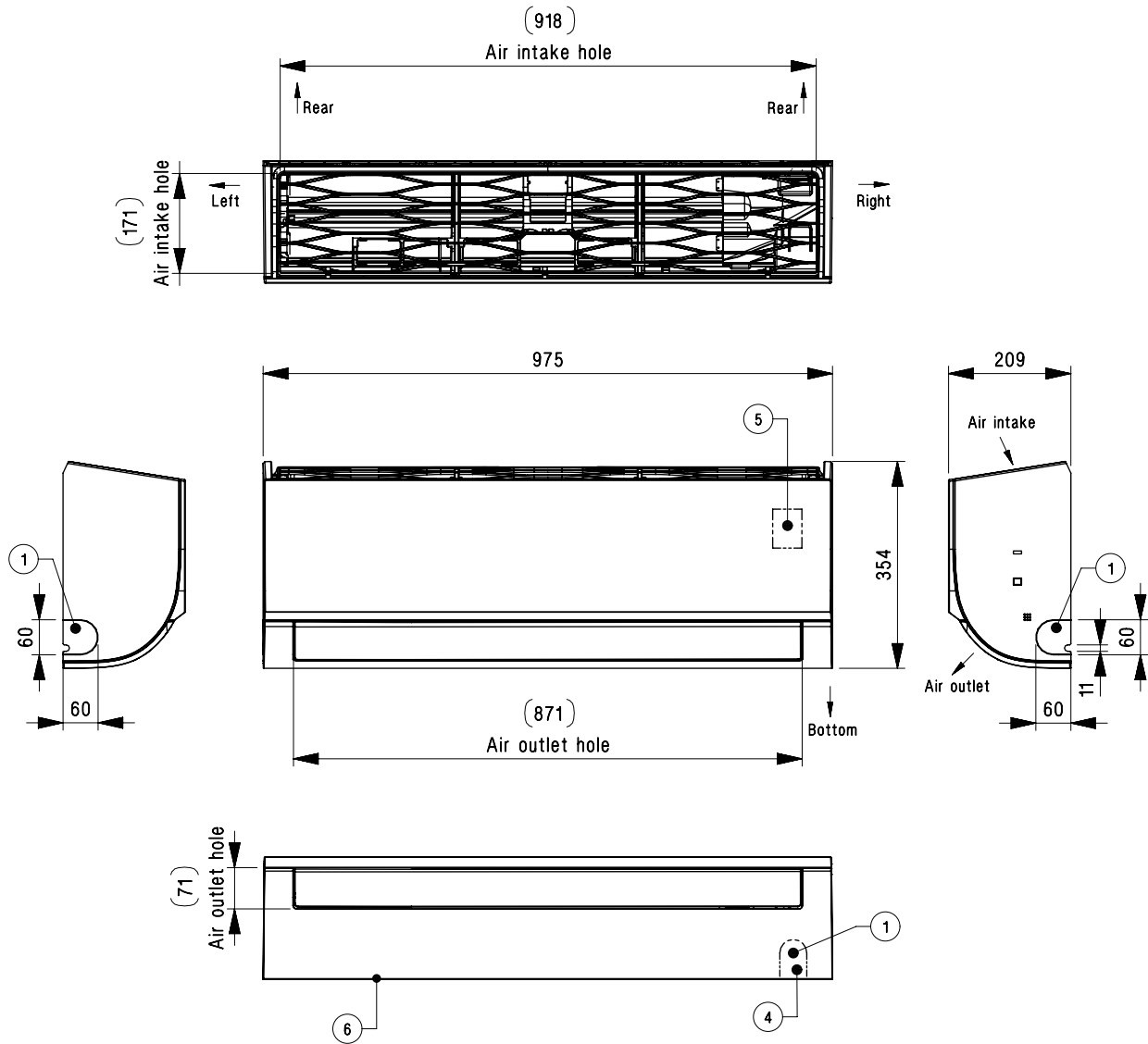
	PART NAME
1	Refrigerant / Drain Pipe and Cabel Routing Hole
2	Installation Plate
3	Drain Hose Connection
4	Terminal Block for Power Supply Communication
5	Display & Remote Controller Signal Receiver
6	Decoration Cover



STANDARD INVERTER (R32)
MJ18PC NSJ / MJ24PC NSJ

(Unit : mm)

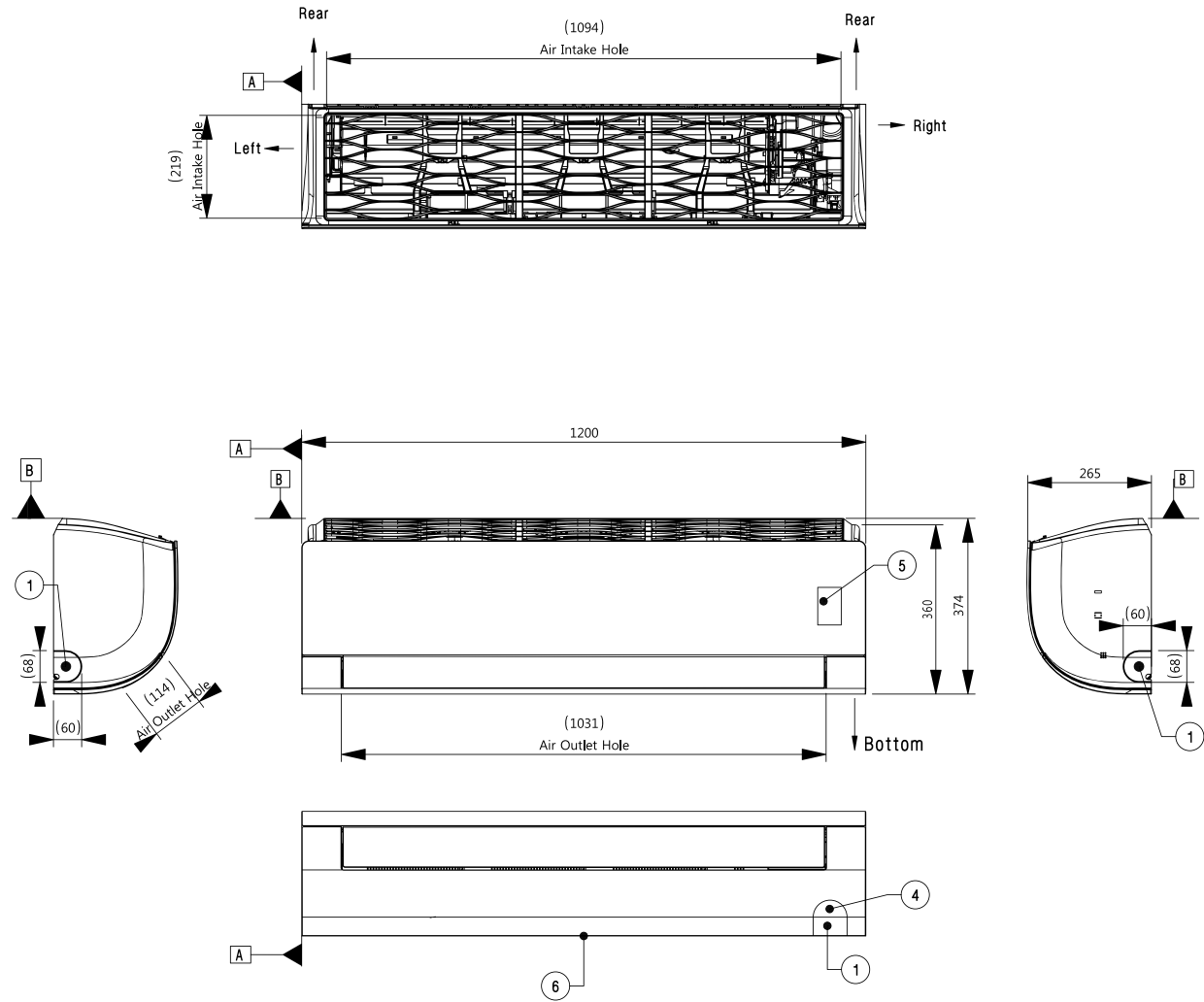
	PART NAME
1	Refrigerant / Drain Pipe and Cabel Routing Hole
2	Installation Plate
3	Drain Hose Connection
4	Terminal Block for Power Supply Communication
5	Display & Remote Controller Signal Receiver
6	Decoration Cover



STANDARD / COMPACT INVERTER (R32)
US30F NR0 / US36F NR0

(Unit : mm)

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

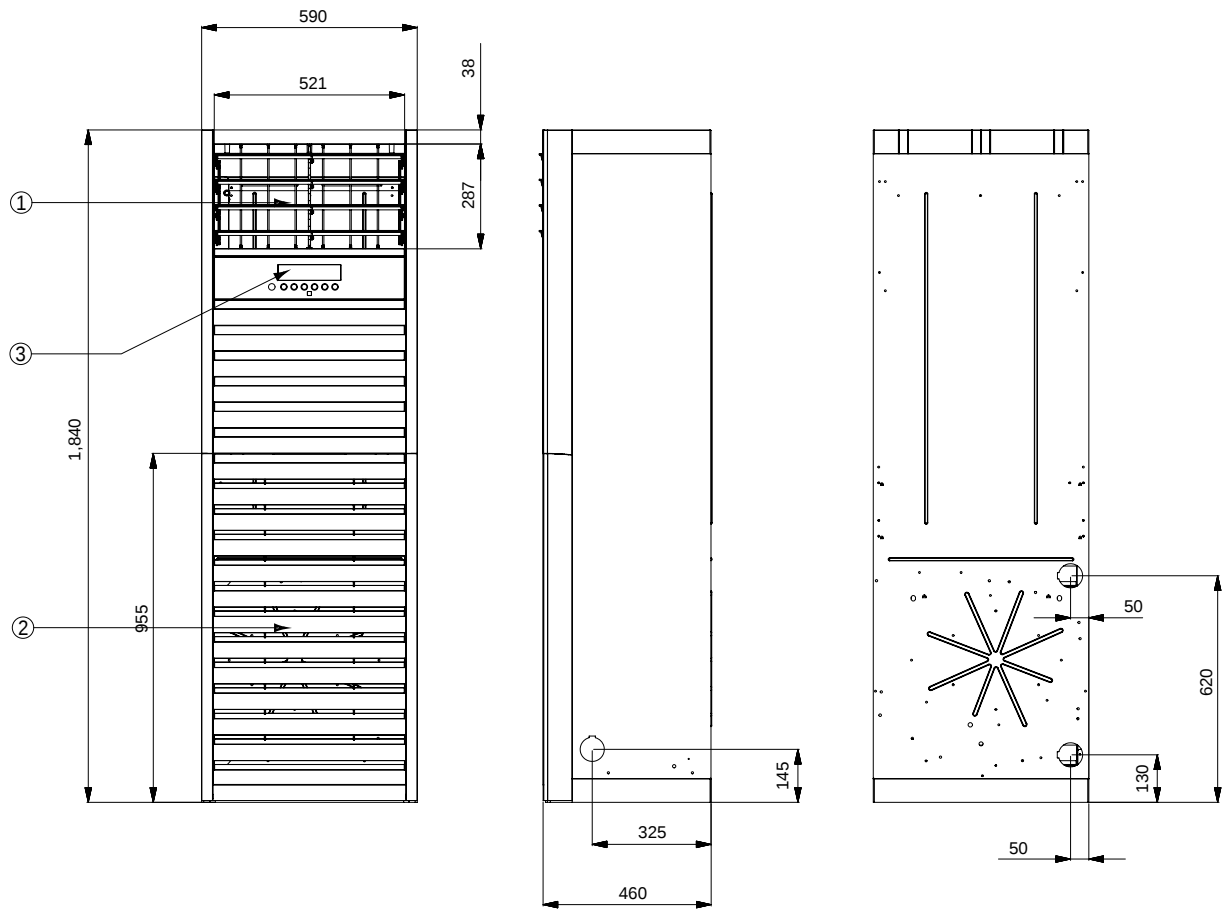


STANDARD INVERTER (R410A)

UP48 NT2

(Unit : mm)

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

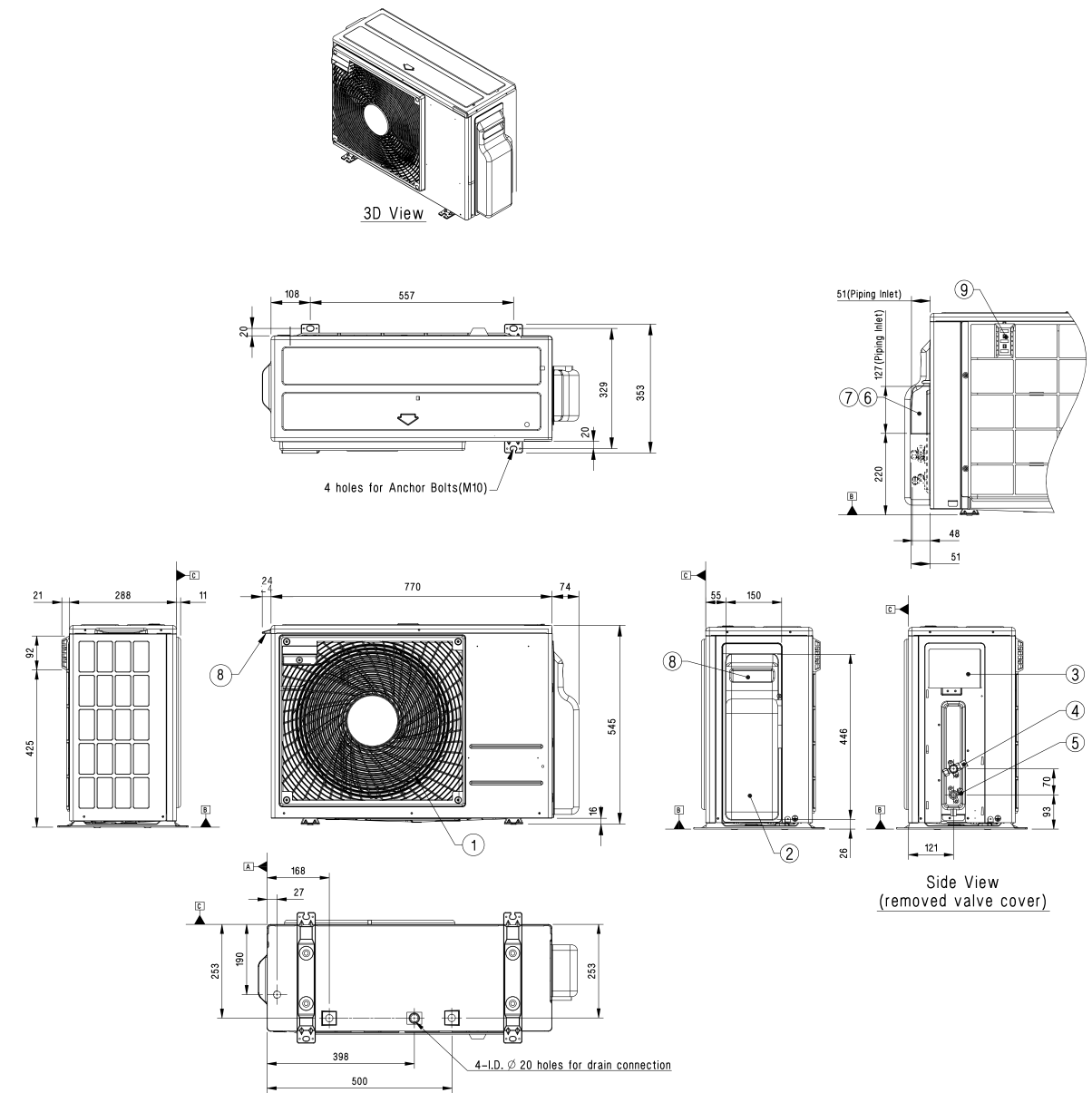


HIGH / STANDARD / COMPACT INVERTER (R32)

UUA1 ULO

(Unit : mm)

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

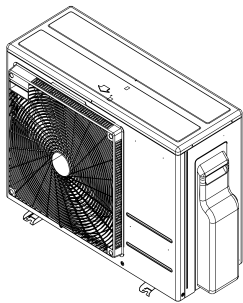


HIGH / STANDARD / COMPACT INVERTER (R32)

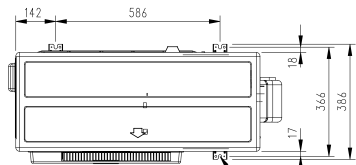
UUB1 U20

(Unit : mm)

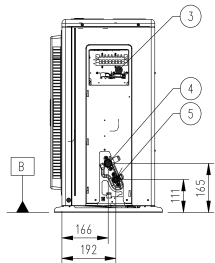
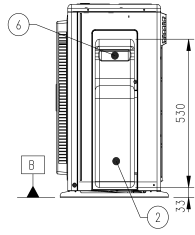
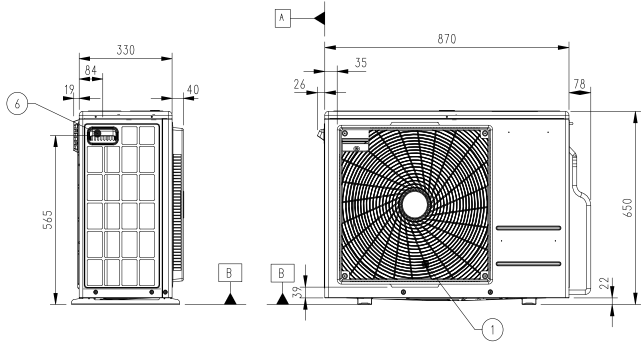
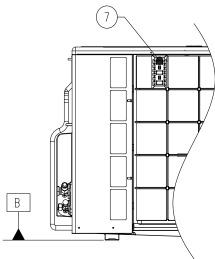
	PART NAME
1	Air Outlet
2	Control Cover & SVC Valve Cover
3	Power and Communication Cable Connection
4	Gas Pipe Connection
5	Liquid Pipe Connection
6	Handle
7	Intake Air Temperature Sensor Cover



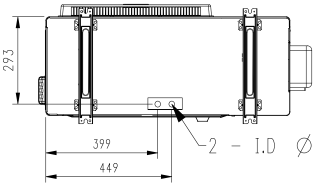
3D View



4 holes for Anchor Bolts (M10)



Side View
(removed valve cover)



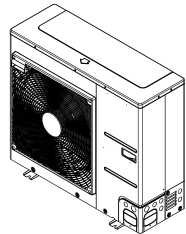
2 - I.D. Ø 20 Holes for drain connection

HIGH / STANDARD / COMPACT INVERTER (R32)

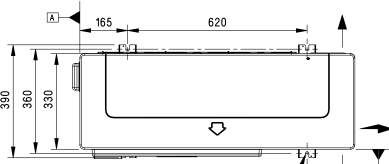
UUC1 U40

(Unit : mm)

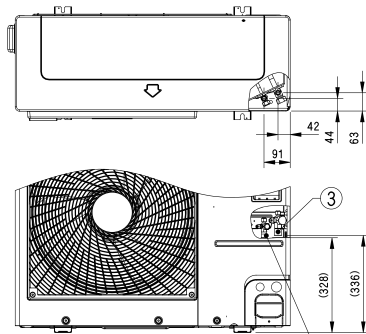
	PART NAME
1	Air Outlet
2	Power and Communication Cable Hole
3	Gas Pipe Connection
4	Liquid Pipe Connection
5	Handle
6	Pipe Routing Hole (Front)
7	Pipe Routing Hole (Side)
8	Pipe Routing Hole (Back)



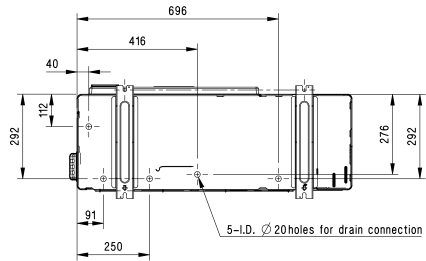
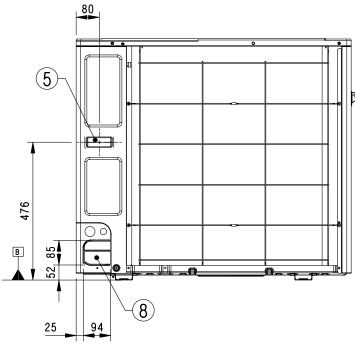
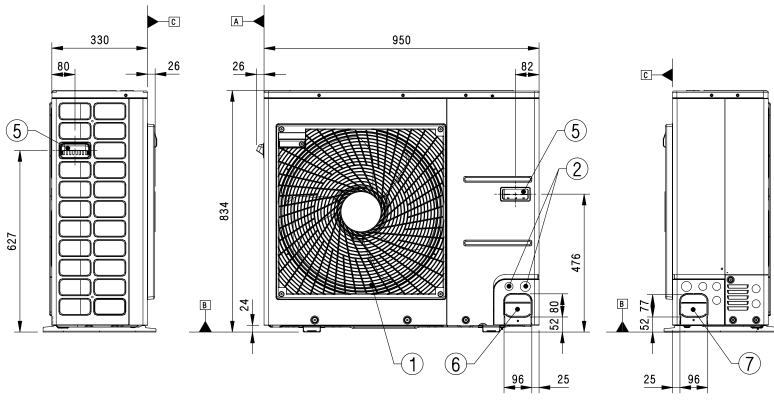
3D View



4 holes for Anchor Bolts (M10)



Piping connection port

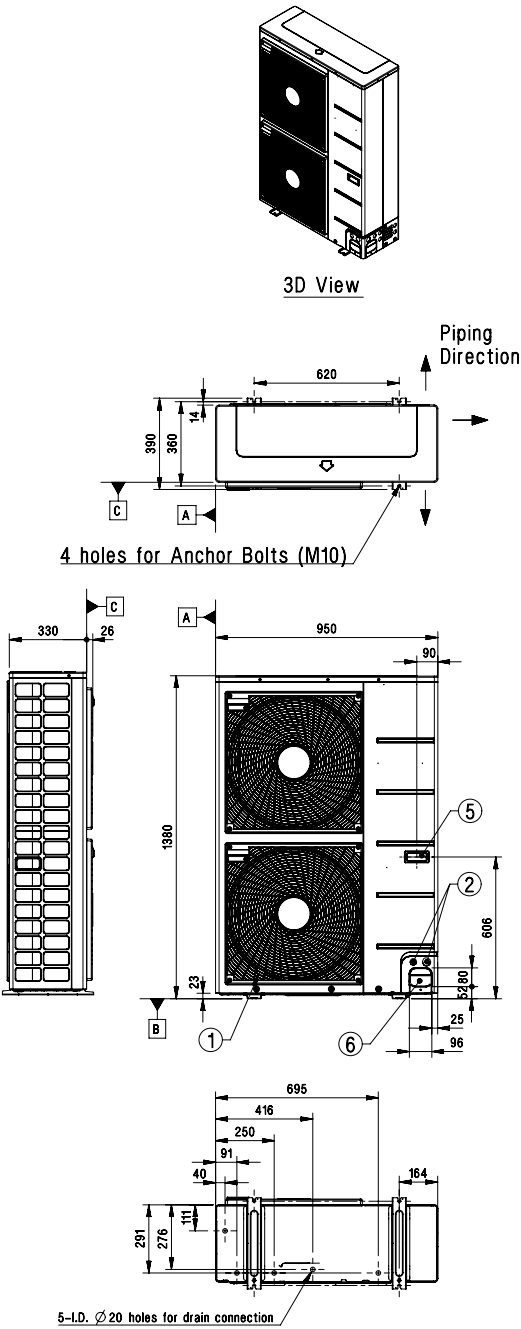


STANDARD INVERTER (R32)

UUD1 U30 / UUD3 U30

(Unit : mm)

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



STANDARD INVERTER (R410A)

UU48W U32 / UU49W U32

(Unit : mm)

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

