

# 170 - 303

## COMMERCIAL

SINGLE SPLIT



H-INVERTER (R32)

STANDARD INVERTER (R32)

kBTu/h	Type kW	H-INVERTER (R32)					STANDARD INVERTER (R32)									
		Ceiling Mounted Cassette	Ceiling Concealed Duct		Ceiling Suspended	ODU		Ceiling Mounted Cassette	Round Cassette	Ceiling Concealed Duct		Ceiling Suspended	Wall Mounted	Console	ODU	
			Mid Static	Low Static		1Ø	3Ø			Mid Static	Low Static				1Ø	3Ø
9	2.5															
12	3.4															
18	5.0															
24	6.8															
30	8.0															
36	9.5															
42	12.0															
48	13.4															
60	14.6															
70	20.0															
85	25.0															

COMPACT INVERTER (R32)

STANDARD INVERTER (R410A)

kBTu/h	Type kW	COMPACT INVERTER (R32)					STANDARD INVERTER (R410A)				
		Ceiling Mounted Cassette	Ceiling Concealed Duct		Ceiling Suspended	Wall Mounted	ODU	Ceiling Concealed Duct (High Static)	Floor Standing	ODU	
			Mid Static	Low Static						1Ø	3Ø
9	2.5										
12	3.4										
18	5.0										
24	6.8										
30	8.0										
36	9.5										
42	12.0										
48	13.4										
60	14.6										
70	20.0										
85	25.0										

# 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	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	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
<b>High Performance</b>  (13 sets) (12 sets) (7 sets)	<b>Wide Application</b>  (13 sets) (15 sets) (11 sets)  (4 sets) (3 sets) (7 sets)	<b>Compact Size</b>  (4 sets) (6 sets) (4 sets)  (2 sets)
<b>Total 32 Sets</b>	<b>Total 53 Sets</b>	<b>Total 16 Sets</b>

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

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

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

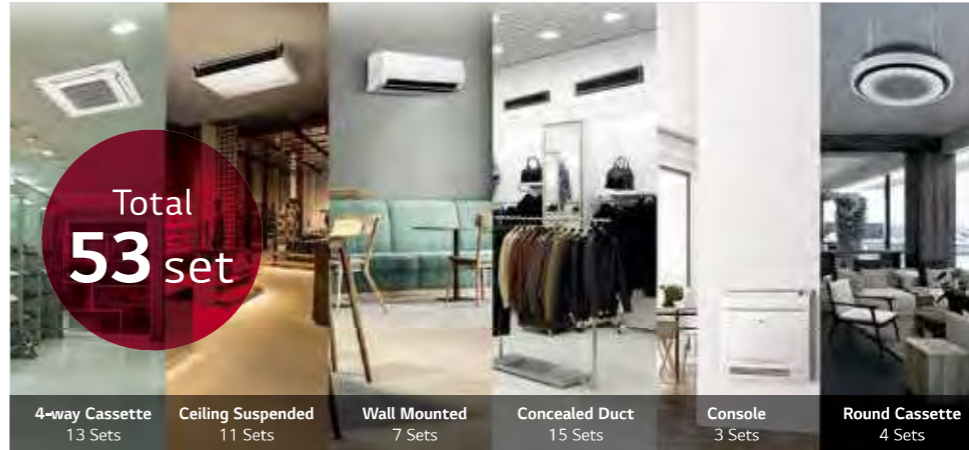


Capacity **17% ↑** at -15°C

- 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+

4-way Cassette (13 Sets) | Ceiling Suspended (11 Sets) | Wall Mounted (7 Sets) | Concealed Duct (15 Sets) | Console (3 Sets) | Round Cassette (4 Sets)

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

## Compact : Maximize Space Utilization with Compact Size



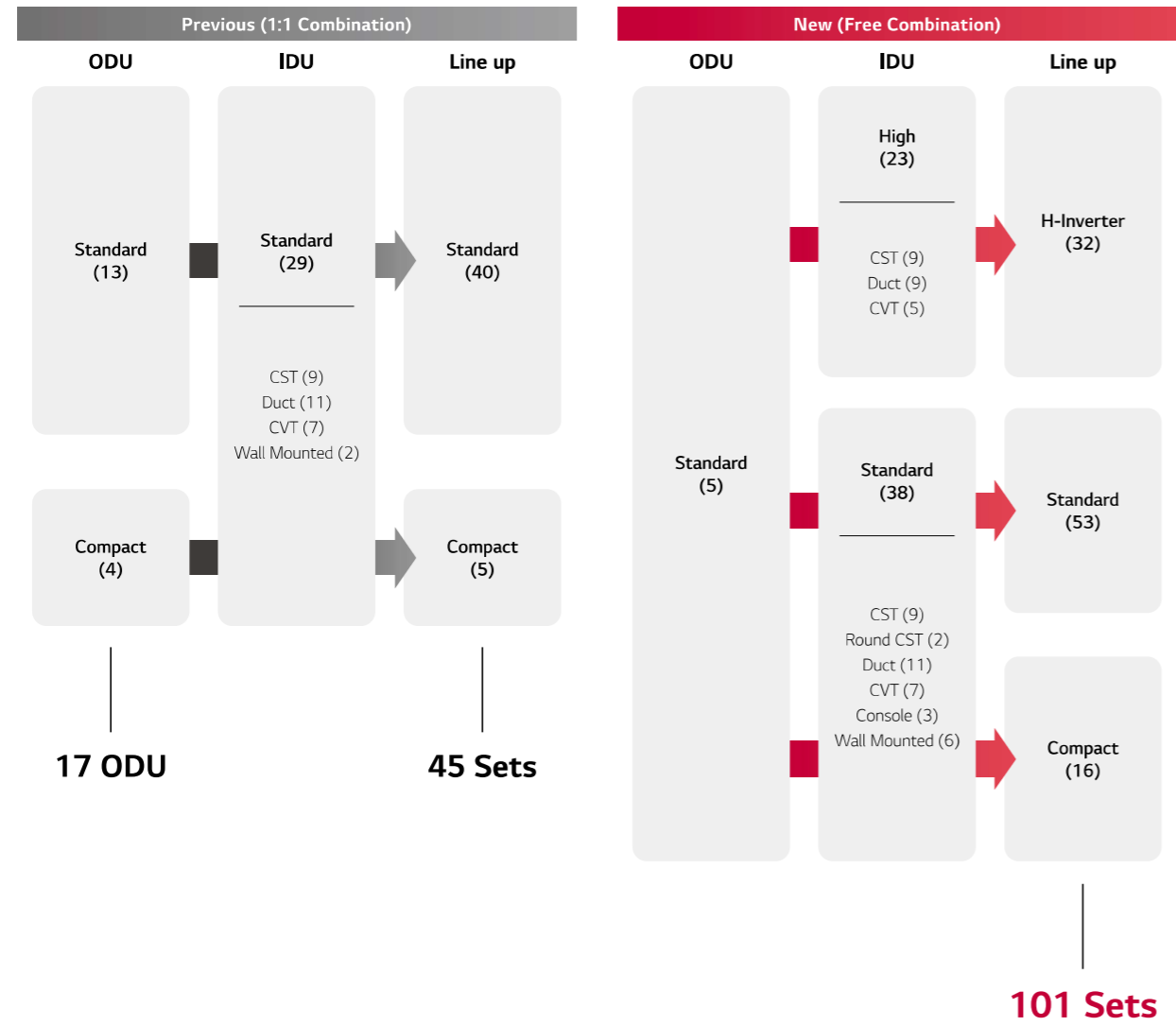
Height & Face Area **40% Decrease**

- 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.



Capacity (Btu/h)

Line-up	9k	12k	18k	24k	30k	36k	42k	48k	60k
H-Inverter	UUA1	UUB1	UUC1	UUD1					
Standard				UUD3					
Compact		UUA1	UUB1	UUC1					

## 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
Humidity Control (Cassette, Suspended, Console)	●	●	●	●
Wi-Fi (cassette)	Accessory	Accessory	Accessory	Accessory
Convenience				
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.

## 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



Enjoy A New Level Of Fresh Air

# UVnano™ Filter Box for Ceiling Concealed Duct

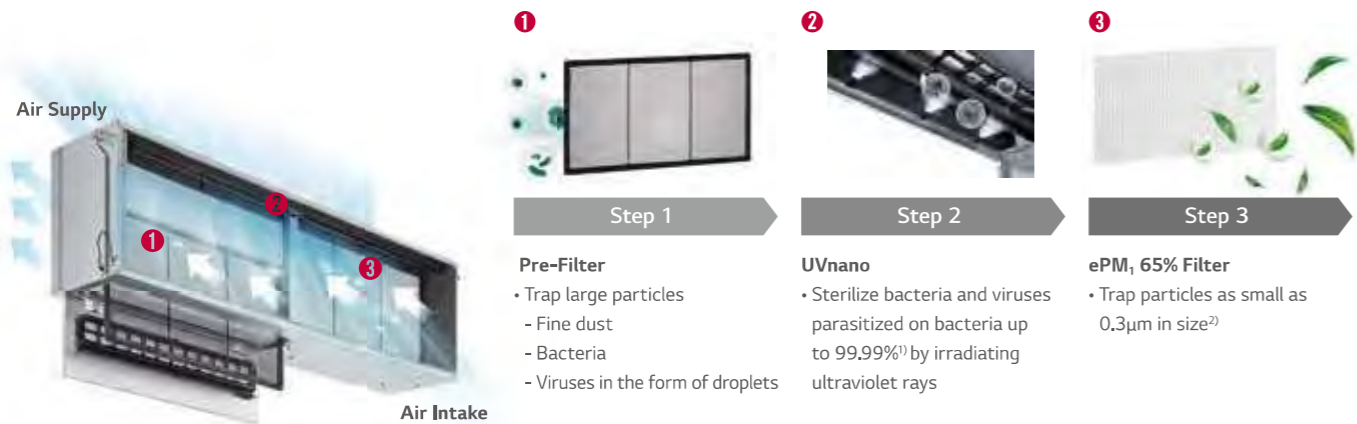
For more LG Air Conditioner information, please visit our Youtube channel through QR code.



LG UVnano Filter Box can effectively create a safe indoor environment by trapping and removing various harmful substances such as Ultrafine dust, bacteria and viruses in the form of droplets.



## Air Purification Operation



1) Based on TÜV Rheinland test conducted according to LG test method in compliance with ISO 20743, removing 99.99 of percent of Staphylococcus aureus, Staphylococcus epidermidis, and Klebsiella pneumoniae after being exposed to UV LED lights for 4 hours (Tested Models : PBM13M3UA0, PBM13M2UA0, PBM13M1UA0)  
2) Based on KCL (Korea Conformity Laboratories) test conducted in compliance with ISO 16890

## Certificate



**Certified Test Report**  
The built-in UV LED module of tested model (PBM13M3UA0) has over 99.99% disinfection performance on average to bacteria at measuring points of the Pre-Filter under the proposed test condition.

\*\*Tested by TÜV Rheinland Standard



**Certified Test Report**  
The built-in UV LED module of tested model (PBM13M3UA0) has 99.99% disinfection performance to virus (Phi X 174) at measuring points of the Pre-Filter under the proposed test condition.

\*\*Tested by TÜV Rheinland Standard

## ePM<sub>1</sub> 65% Filter

ePM<sub>1</sub> 65% Filtering capability rating in accordance with ISO 16890



### Certified Test Report Comparison of Filter Classes

Filter Class	ISO 16890 (Average Efficiency)				ASHRAE 52.2 Filter Rating
	ePM <sub>1</sub>	ePM <sub>2.5</sub>	ePM <sub>10</sub>	Coarse	
G1	-	-	-	-	MERV 1-4
G2	-	-	-	30% - 50%	MERV 1-4
G3	-	-	-	45% - 65%	MERV 5
G4	-	-	-	60% - 85%	MERV 6-8
M5	5% - 35%	10% - 45%	40% - 70%	80% - 95%	MERV 8-10
M6	10% - 40%	20% - 50%	45% - 80%	> 90%	MERV 9-13
<b>F7</b>	<b>40% - 65%</b>	<b>50% - 75%</b>	<b>80% - 90%</b>	<b>&gt; 95%</b>	<b>MERV 13-14</b>
F8	65% - 90%	75% - 95%	90% - 100%	> 95%	MERV 14-15
F9	80% - 90%	85% - 95%	90% - 100%	> 95%	MERV 16

\*\* Tested by KCL (Korea Conformity Laboratories)  
※ ISO 16890 Standard provides lab evaluation procedures which more realistically simulate actual operating conditions, replacing EN 779 Standard's filter classes G1-F9 by a classification system based on particulate groups PM1, PM2.5 and PM10.  
※ Unlike EN 779 Standard which specifies Filter Classes, ISO 16890 Standard classifies according to Filter Groups, evaluating a filter's performance by its arrestance of particles from 0.3μm to 10μm in size. Filter Group PM1 comprises particulate sizes ≤ 1.0μm, PM2.5 includes particulate sizes ≤ 2.5μm and PM10 covers particulate sizes ≤ 10μm.  
※ Minimum efficiency is defined as the efficiency achieved following electrostatic discharge of the filter before testing.  
※ Average efficiency is calculated by averaging the filter's efficiencies in the untreated state (before electrostatic discharge) and in the discharged state.



## 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

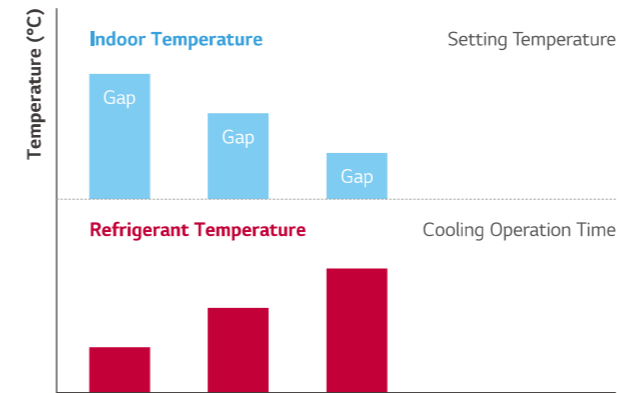
	SEER	SCOP
<b>A+++</b>	SEER ≥ 8,5	SCOP ≥ 5,1
<b>A++</b>	6,1 ≤ SEER < 8,5	4,6 ≤ SCOP < 5,1
<b>A+</b>	5,6 ≤ SEER < 6,1	4,0 ≤ SCOP < 4,6
<b>A</b>	5,1 ≤ SEER < 5,6	3,4 ≤ SCOP < 4,0
<b>B</b>	4,6 ≤ SEER < 5,1	3,1 ≤ SCOP < 3,4
<b>C</b>	4,1 ≤ SEER < 4,6	2,8 ≤ SCOP < 3,1
<b>D</b>	3,6 ≤ SEER < 4,1	2,5 ≤ SCOP < 2,8

※ Based on Ceiling Cassette (6,8 kW)

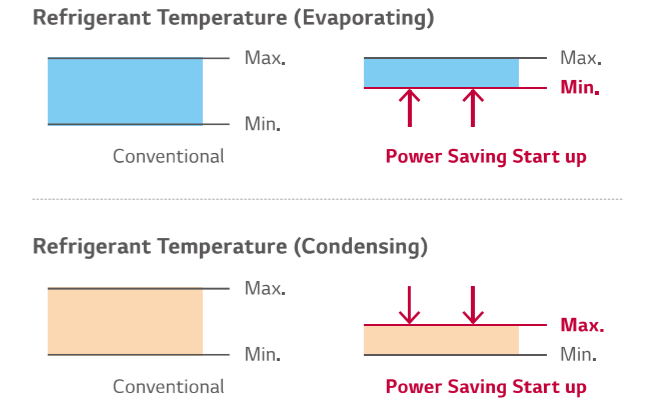
## Energy Savings

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

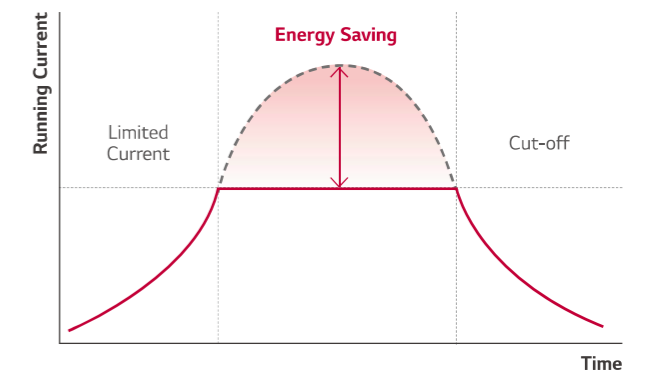


### Energy Saving



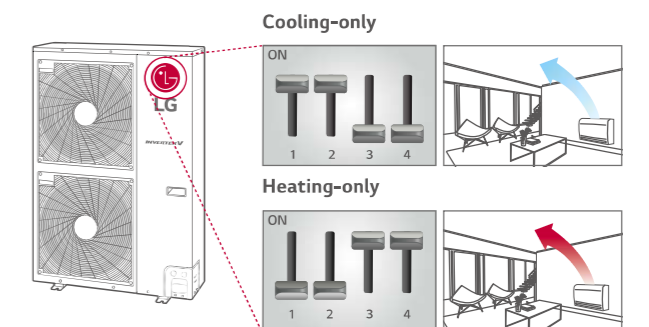
## Peak Current Control

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.



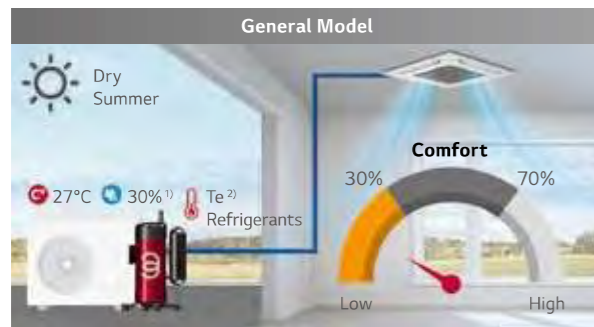
By sensing both temperature and humidity, this feature helps avoid over-cooling and dehumidification, maximizing comfort



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

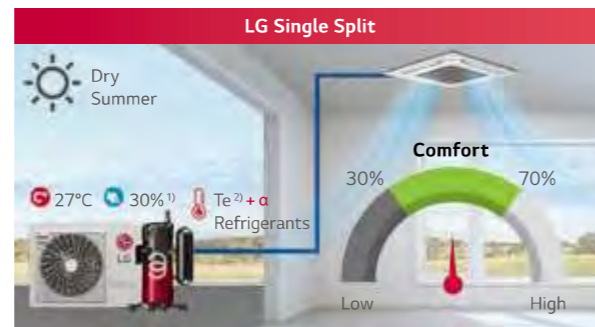
### Dry Summer

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



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

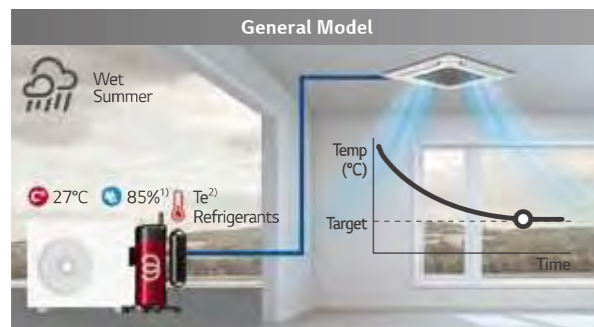
※ Humidity Condition : Low (<30%), Standard (30-70%)  
1) Indoor Condition 2) Evaporation Temperature



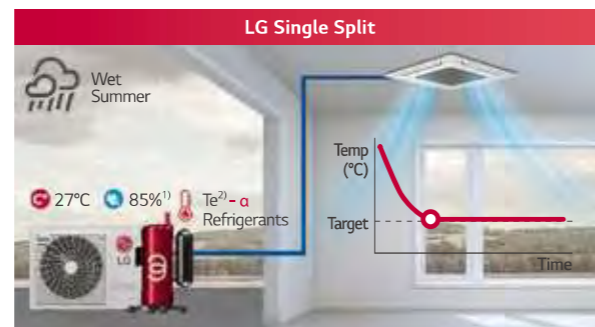
- **Comfortable Environment**  
By making the room less dry
- **Increased Energy Efficiency**  
Provide optimized cooling and save energy considering humidity

### 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.



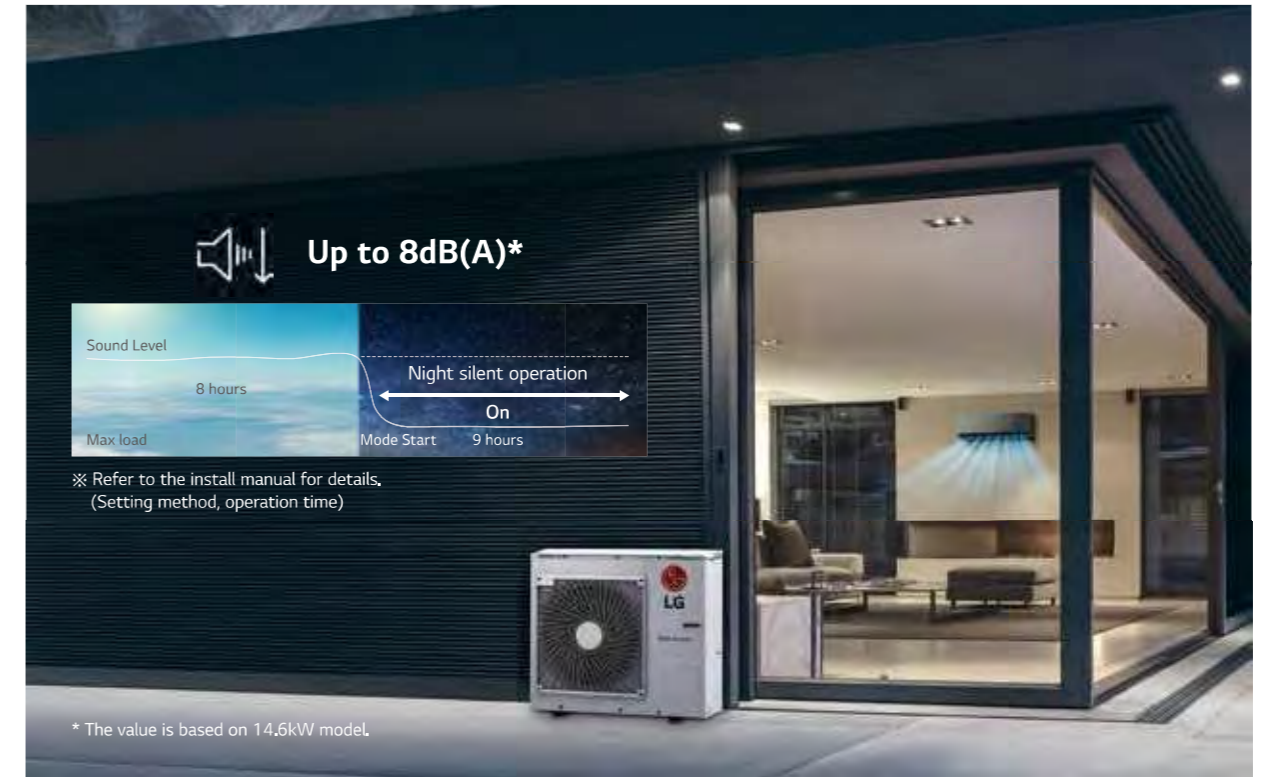
- **Uncomfortable Environment**  
General latent heat elimination regardless of humidity
- 1) Indoor Condition 2) Evaporation Temperature



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

## Night Silent Operation

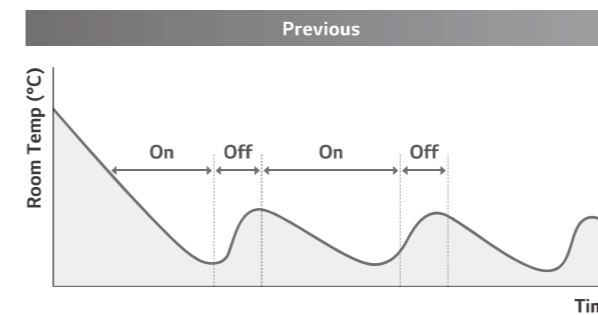
Night Silent Operation can reduce noise levels at night time by simply setting the dip switch on the PCB of the outdoor unit.



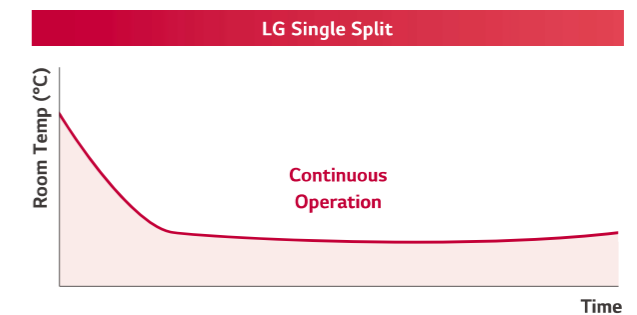
\* The value is based on 14.6kW model.

## Continuous Cooling Operation

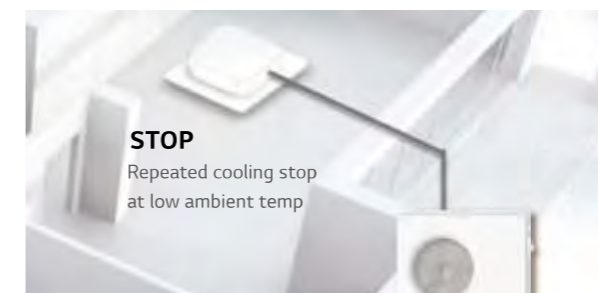
LG Single Split is able to perform continuous cooling at low ambient temperature, (as low as -15°C)



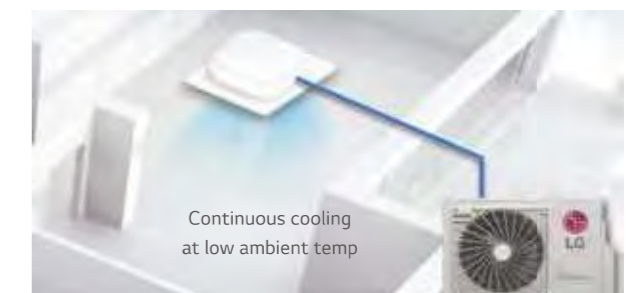
※ Outdoor -15°C



※ Outdoor -20°C



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

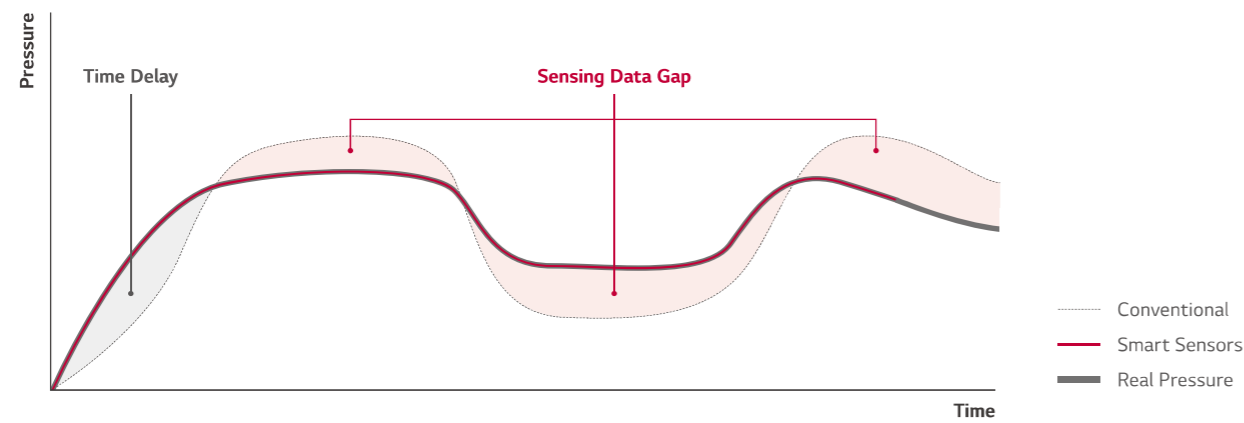
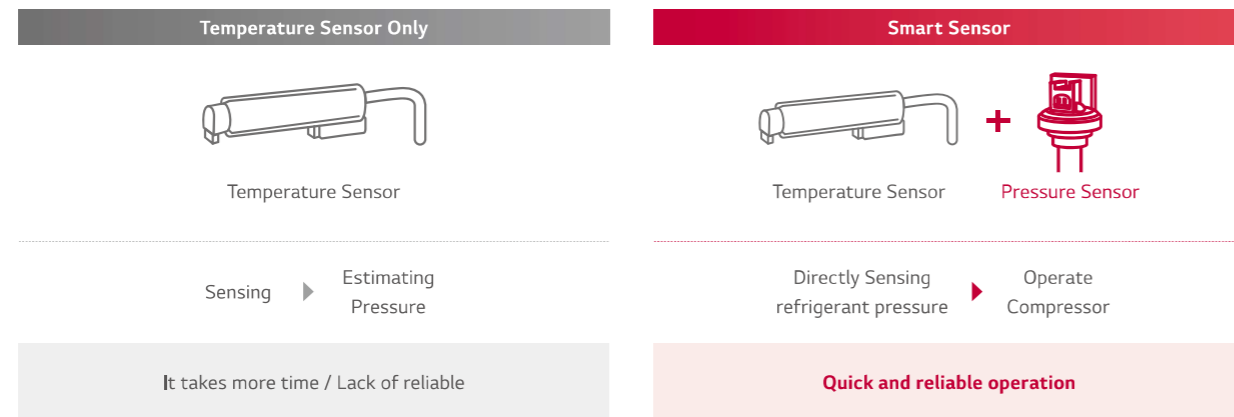


※ Based on a stand 36k model, (after 2019)

## Quick & Reliable Operation

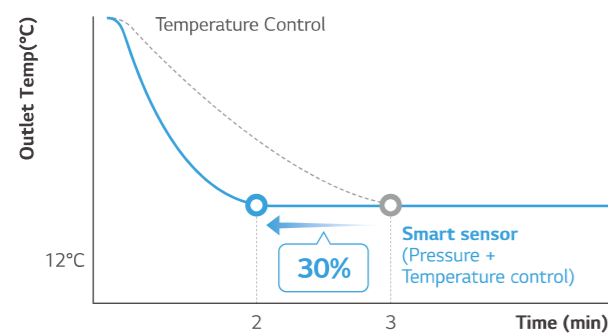
Through pressure and temperature sensing, the desired indoor temperature can be reached more rapidly.

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



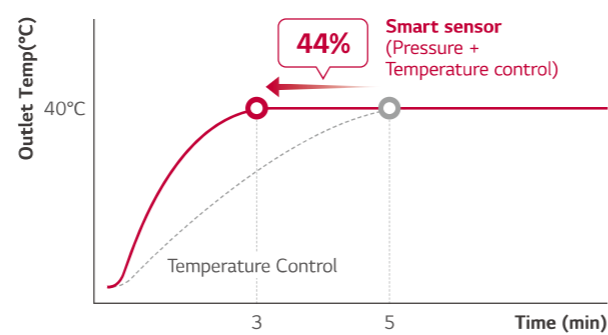
- With pressure sensing, the desired temperature is achieved in 30% less time in cooling and 44% in heating.

### Cooling



※ Based on internal test data.

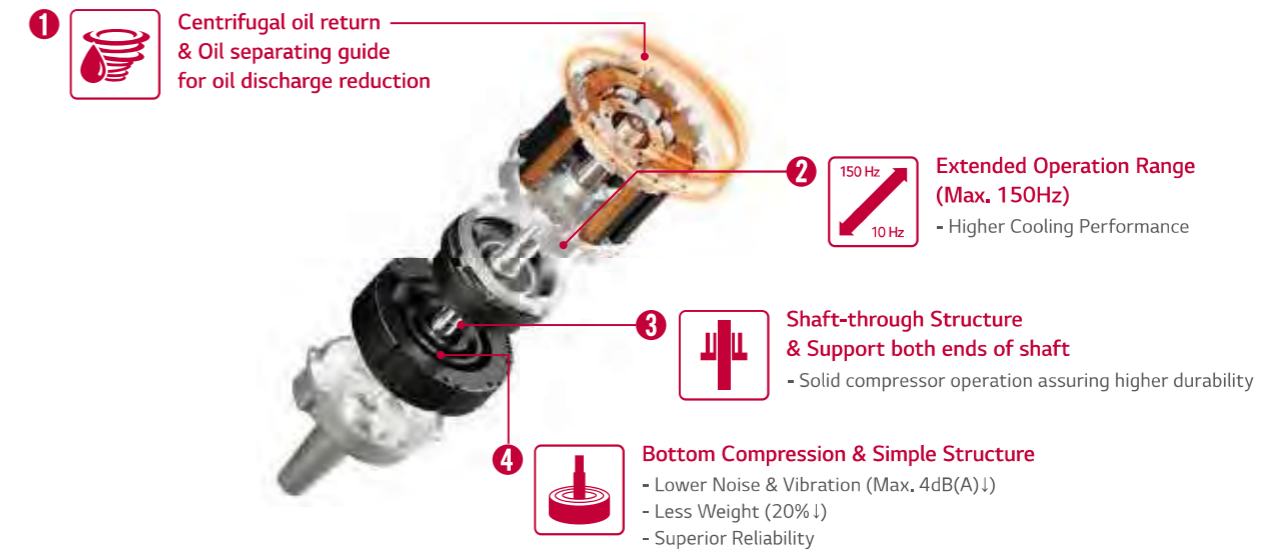
### Heating



※ Based on internal test data.

## R1 Compressor™

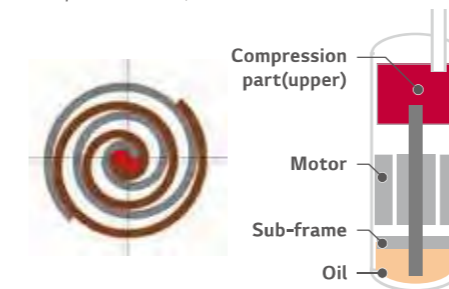
R1 Compressor is one that combines high-efficiency, low sound characteristics of the scroll and the simple compressing structure of the rotary compressor. This technology enables a highly efficient compact model.



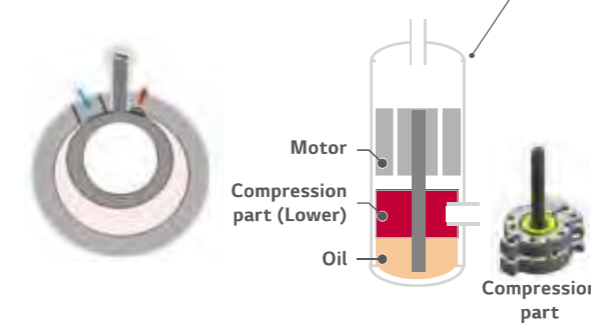
### Conventional Compressor

#### Scroll

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



Rotary: Simple structure (Compression per 1 rotation)



### R1 Compressor™

#### Revolutionary Scroll

High efficiency / Stable & Simple Structure



**Hybrid Scroll Shape (LG patent)\***

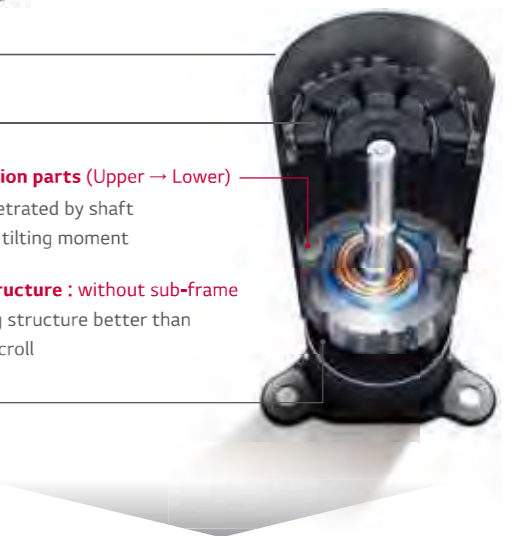
\* Patent registration number (S.Korea: 10-1059880, USA: RE46106)

#### Motor

**Compression parts (Upper → Lower)**  
Scroll penetrated by shaft → remove tilting moment

**Simple structure: without sub-frame**  
Oil feeding structure better than previous scroll

#### Oil

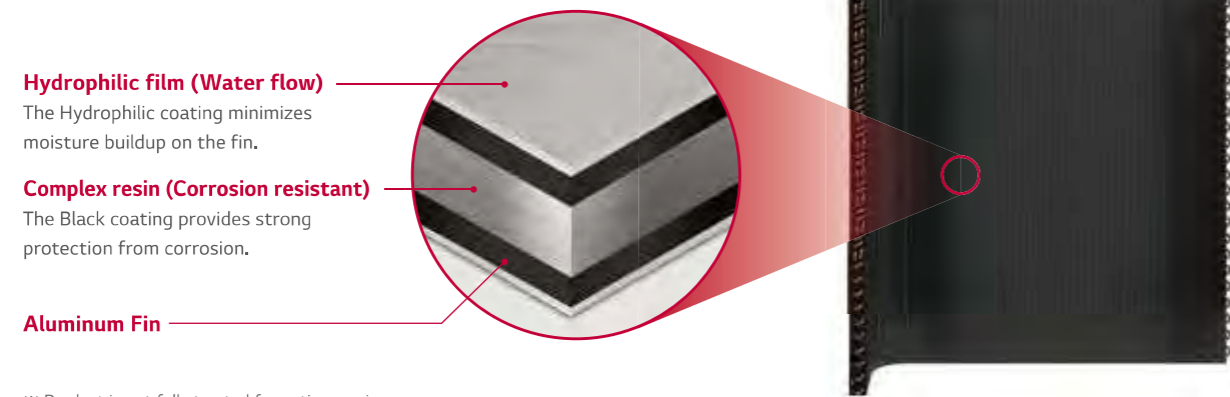


Extended operation (Max. 150Hz)  
Low noise & Vibration (Max. 4dB(A)↓)  
Less weight (20%↓)

## 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.

**Complex 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.

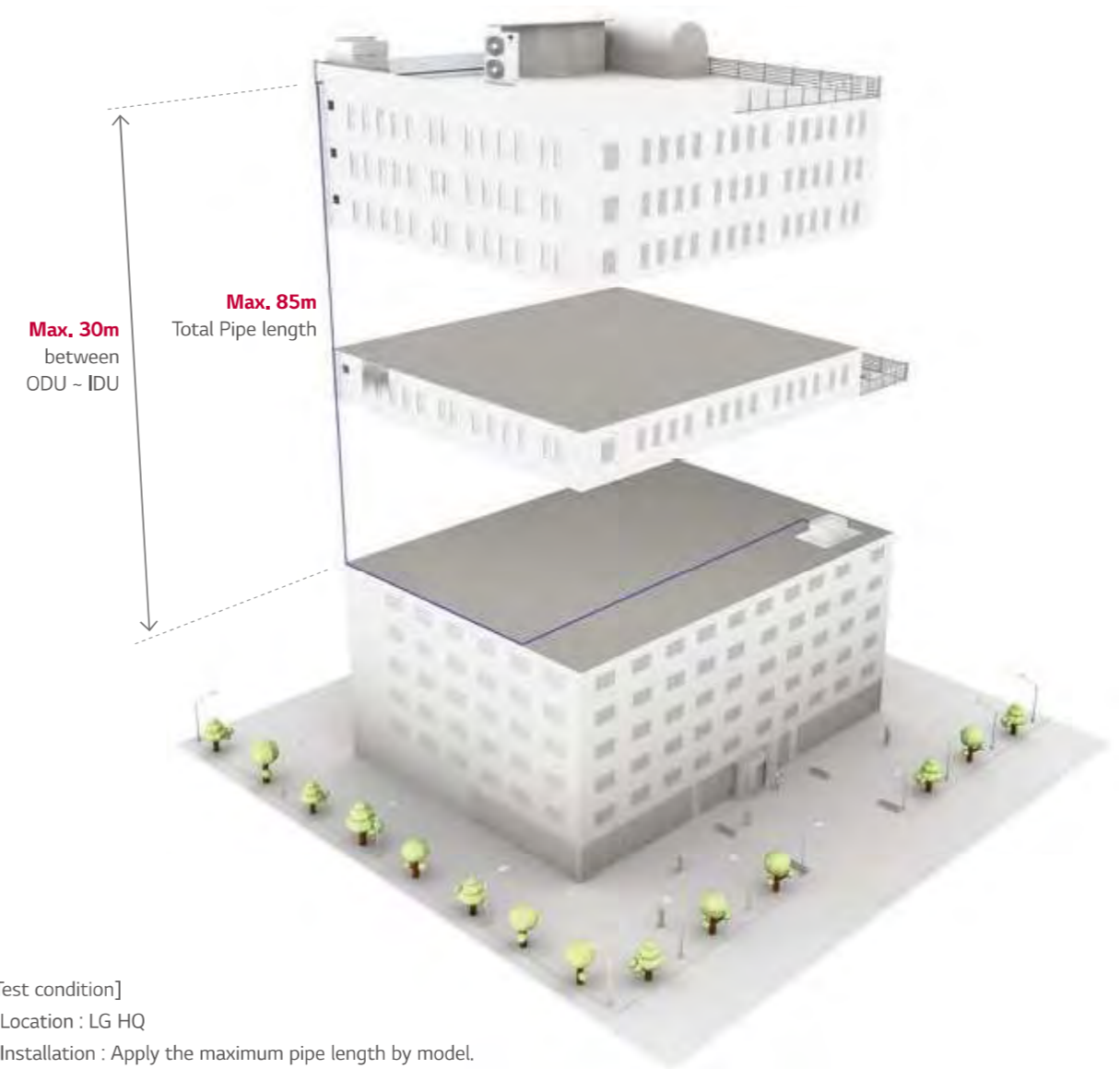
### Verified Protection



※ Verification of corrosion resistance performance  
- Test Method B of ISO21207  
- ASTM B117 / ISO 9227 (10,000 hours)

## 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
<b>Maximum pipe length</b>	20 m	30 / 35* m	50 m	85 m
<b>Maximum Height Difference (ODU-IDU)</b>	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.



Access your air conditioner anytime and from anywhere



Simple operation for various functions

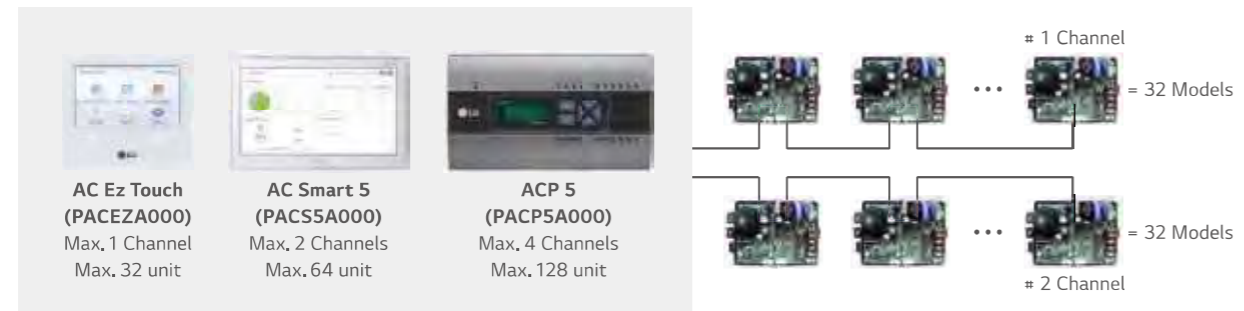
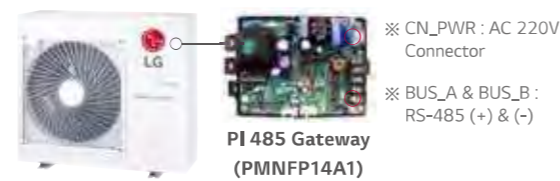
- Air Purify\*
- On / Off\*
- Mode Selection\*
- Current temperature\*
- Set temperature\*
- Set fan speed\*
- Vane Control

※ Search "ThinQ" on Google or Apple store then download the app.  
 ※ Wi-Fi modem (PWFMD200) is required by option.  
 ※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

\* 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

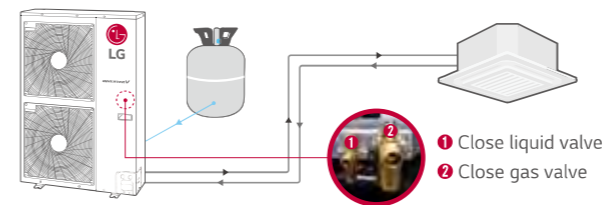


※ In case of needing more functions beside on / off control, a dry contact is required to be installed.

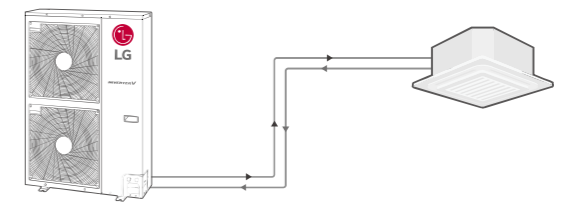
Forced Cooling Operation

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

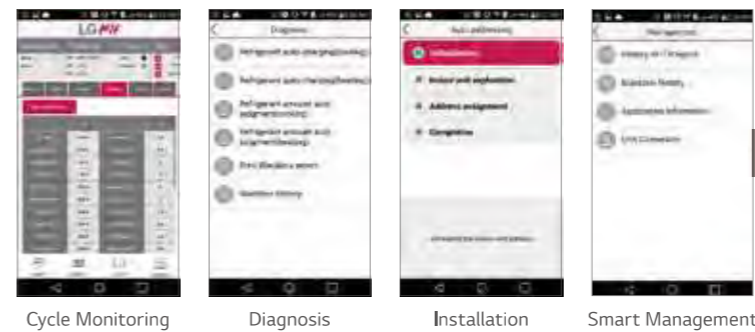


Mobile LGMV

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
	⋮

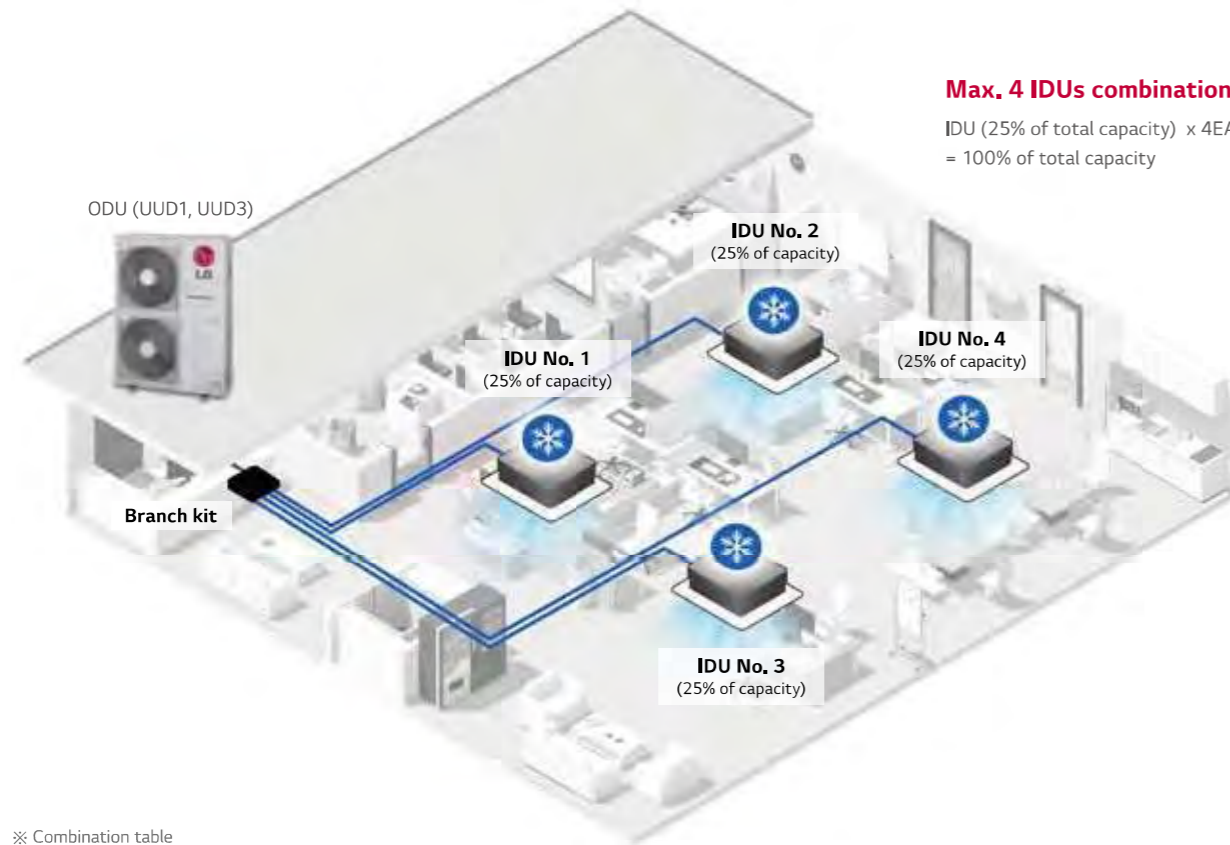


A technician not only can check the cycle information with diagrams & graph, but also check easily the error status (Troubleshooting guide) and take action immediately.

※ 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.



※ Combination table

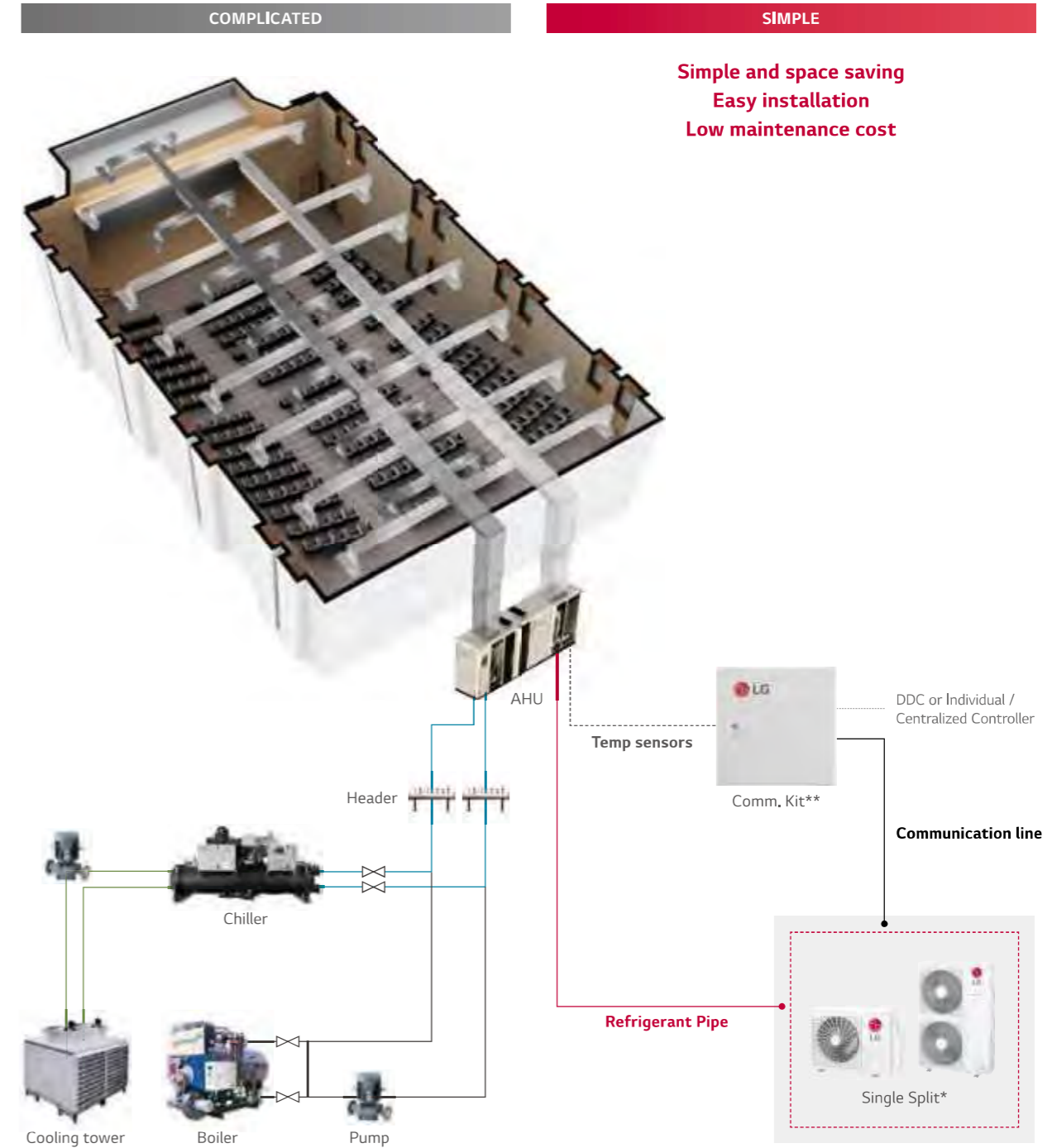
	2 PMUB11A		3 PMUB111A		4 PMUB1111A	
Model	Duo		Trio		Quartet	
	Cassette	Duct	Cassette	Duct	Cassette	duct
UUD1, UUD3	CT18F x 2EA	CM18F x 2EA	CT12F x 3EA	CL12F x 3EA	CT12F x 4EA	CL12F x 4EA
	CT24F x 2EA	CM24F x 2EA	CT18F x 3EA	CM18F x 3EA	-	-
	UT30F x 2EA	UM30F x 2EA	-	-	-	-
Branch kit	PMUB11A		PMUB111A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

Note

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

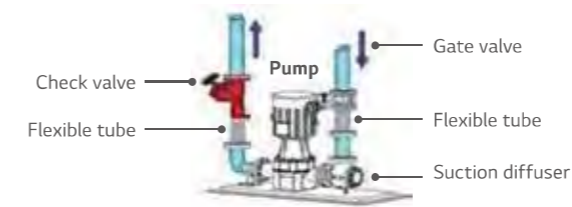
## Connection with AHU

Single split can be connected to AHU using communication kit.



**Simple and space saving**  
**Easy installation**  
**Low maintenance cost**

### 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

# CEILING MOUNTED CASSETTE



## 4 Way Air Flow with New Dual Vane Design

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

For more LG Air Conditioner information, please visit our Youtube channel through QR code.



NEW DESIGN

COMMERCIAL SINGLE SPLIT

## New Types of Wind Solutions

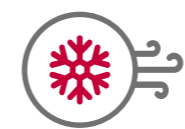
### Indirect Wind



### Direct Wind



## 6 Air Flow Modes



**Power Mode**  
Fast and Quick



**Up / Down Swing**  
Fresh and Natural



**Smart Mode**  
Auto Vane Control



**Indirect Wind**  
Indirect cooling & Heating



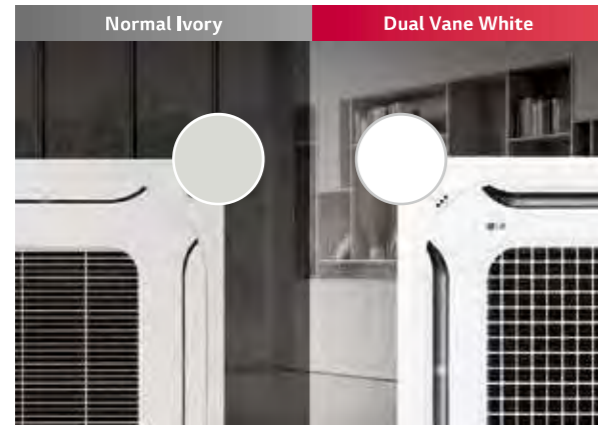
**Direct Wind**  
Suitable for High Ceiling



**Refresh Mode**  
Provide high concentration

## Brighter Color

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



## Wide Design

Bigger inlet and outlet make faster cooling / heating airflow.



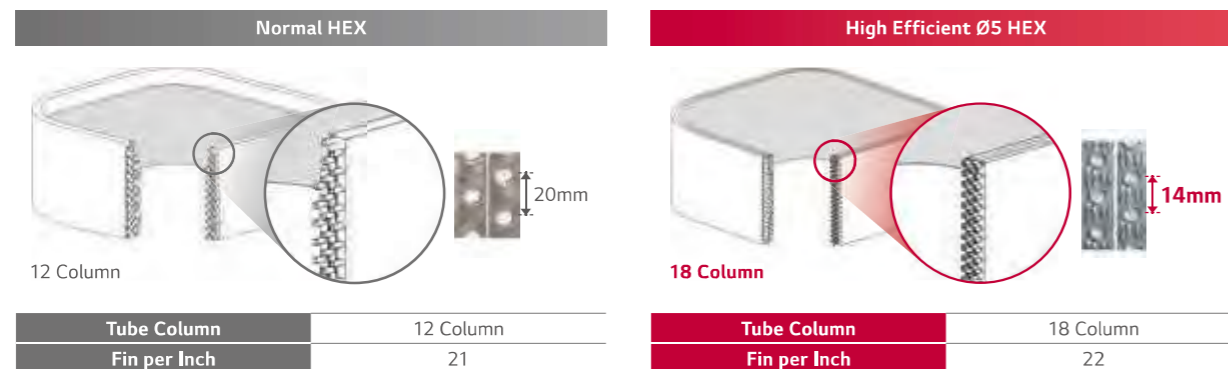
## Full 3D Turbo Fan

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



## High Efficiency Heat Exchanger (HEX)

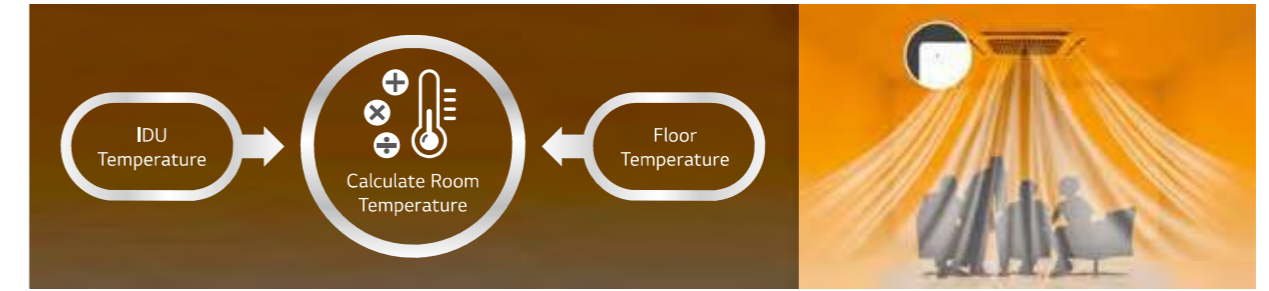
Highly integrated heat exchanger is applied to increase cooling and heating efficiency.



※ This specification can be different as per each model.

## Sensor Reads Temperature from Ceiling to Floor for Heating

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



※ Available only for products with floor temperature sensor.

## Human Detecting Direct / Indirect Airflow

Human sensing function finds users to provide their favorite airflow.

### Comfort Indirect

Prevent airflow to heading to user by sensing.



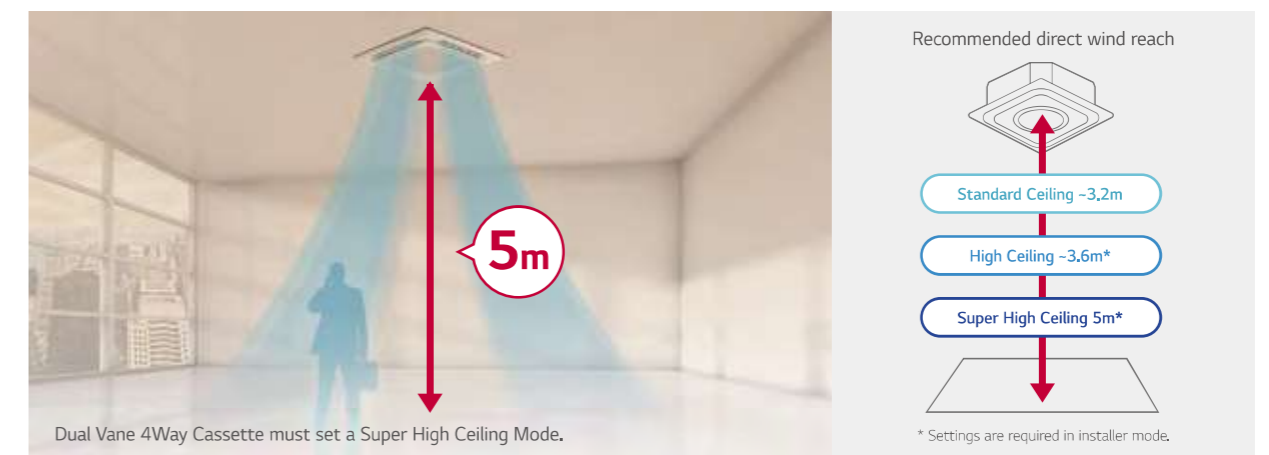
### Follow user Direct

Prefer air flow to heading to user by sensing.



## Direct Wind

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



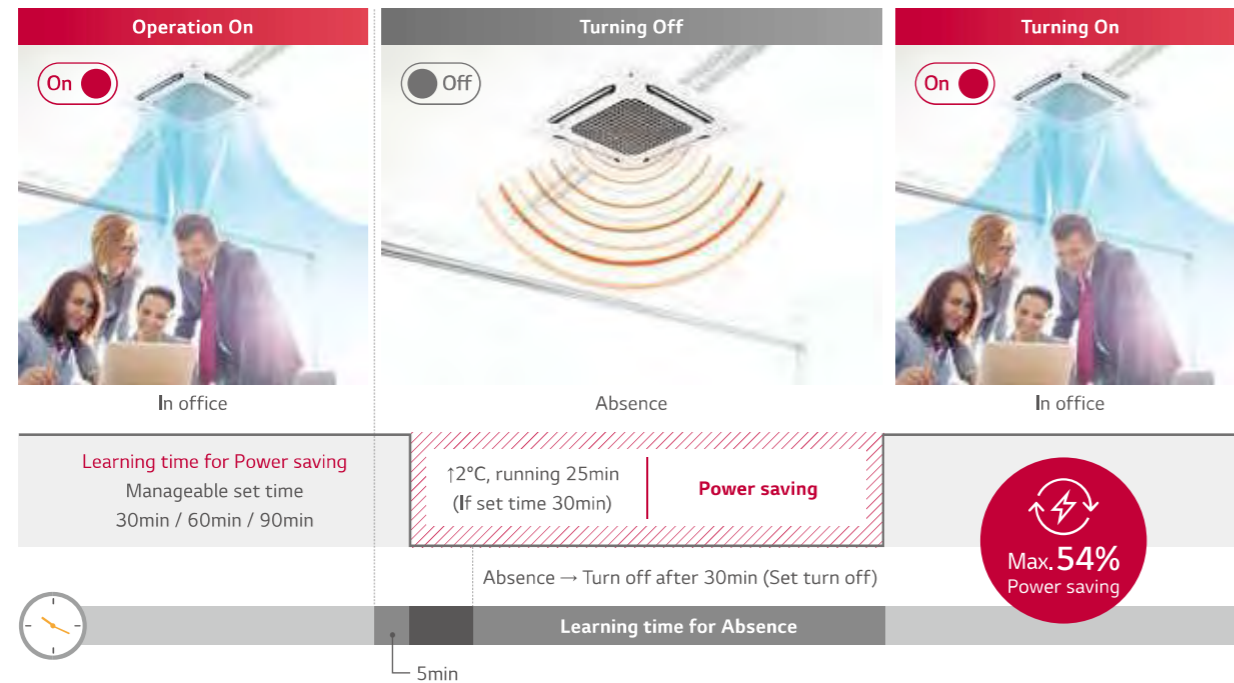
Dual Vane 4Way Cassette must set a Super High Ceiling Mode.

\* Settings are required in installer mode.



# Human Detecting On / Off Learning Operation System

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



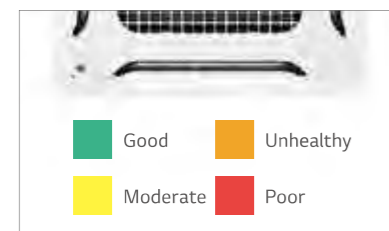
※ Data Based on actual test of LG, single product 2 hours measurement result, (Cooling 26 °C, strong wind)

## Various Display of Air Purification

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

### Smart indicator

Shows quality of Indoor air in real time



### Remote controller

Display Air status and Fine Dust Concentration



### Mobile

Whenever & Wherever Check and Control Air status



## Pairing ThinQ

Anywhere! Anytime! Can connect to IDU with ThinQ

- Monitoring Air status : Easy to check indoor air status
  - Microfine dust / Ultra fine dust / Fine dust
  - Day / Week / Month / Yearly
- Mobile Remote Control : Remote control by using mobile phone
  - Control Mode / Temperature / Air flow etc.
- Display Power Consumption : Check power consumption of A/C
  - Check energy display
  - Set target energy consumption level

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



# Convenient and Powerful Air Purification

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

For more LG Air Conditioner information, please visit our Youtube channel through QR code.



1) Electrical diffusion makes dust electrification.

### CAC certification?

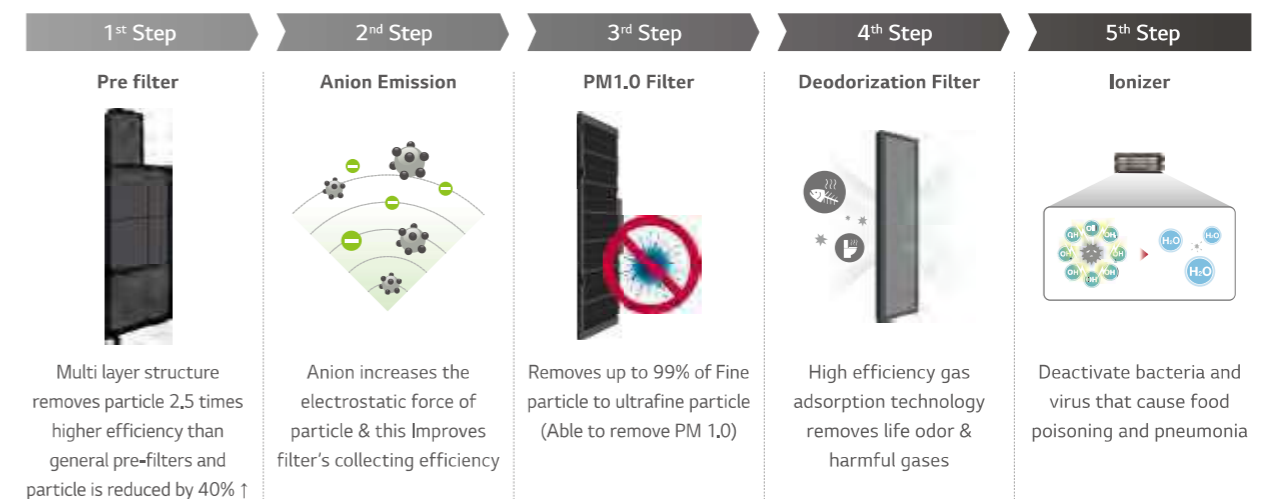
The Korea Air Cleaning Association strictly tests the air cleaning function of air conditioner products and provide certification to the product that give credibility to consumers.



The Korea Air Cleaning Association

## Air Purification Technology

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



**H-INVERTER (R32)**

UT09FH / UT12FH / UT18FH



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

UUA1 ULO UUB1 U20



COMBINATION				9	12	18
Capacity	Cooling	Min. / Rated / Max.	kW	1,6 / 2,5 / 4,0	1,6 / 3,4 / 4,8	2,0 / 5,0 / 6,0
	Heating	Min. / Rated / Max.	kW	1,7 / 3,2 / 4,5	1,7 / 4,1 / 5,8	2,3 / 5,8 / 7,0
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,32 / 0,61 / 0,98	0,32 / 0,97 / 1,78	0,30 / 1,25 / 1,69
	Heating	Min. / Rated / Max.	kW	0,32 / 0,75 / 1,06	0,32 / 1,03 / 1,87	0,30 / 1,47 / 1,98
Running Current	Cooling	Rated	A	2,7	4,3	7,2
	Heating	Rated	A	3,3	4,6	7,7
EER / COP			kWh/kWh	4,10 / 4,30	3,50 / 4,00	4,00 / 3,95
SEER / SCOP			kWh/kWh	7,0 / 4,0	6,8 / 4,0	7,6 / 4,4
Pdesign	Cooling @ 35°C		kW	2,5	3,4	5,0
	Heating @ -10°C		kW	2,8	2,8	4,1
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	125 / 980	175 / 980	230 / 1,305
Dehumidification Rate			l/h	0,1	0,8	1,9
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	49 / 52	49 / 52	47 / 52
ODU Sound Power Level	Cooling	Rated	dB(A)	65	65	63
Piping Connections	Liquid		mm (inch)	Ø6,35 (1/4)	Ø6,35 (1/4)	Ø6,35 (1/4)
	Gas		mm (inch)	Ø9,52 (3/8)	Ø9,52 (3/8)	Ø12,7 (1/2)
	Connections Method		-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-15 / 50	-15 / 50	-15 / 50
	Heating	Min. / Max.	°C	-20 / 18	-20 / 18	-20 / 18
<b>INDOOR</b>				<b>UT09FH NQ0</b>	<b>UT12FH NQ0</b>	<b>UT18FH NB0</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	30 / 26 / 22	30 / 26 / 22	33 / 26 / 22
Air Flow Rate		H / M / L	m³/min	11,0 / 10,0 / 9,3	11,0 / 10,0 / 9,3	17,0 / 15,5 / 14,0
Dimensions	Body	W x H x D	mm	570 x 256 x 570	570 x 256 x 570	840 x 204 x 840
Weight	Body		kg	13,9	13,9	21,1
Sound Pressure Level	Cooling	H / M / L	dB(A)	41 / 39 / 37	41 / 39 / 37	37 / 36 / 34
Sound Power Level	Cooling	Max.	dB(A)	54	54	52
Piping Connections	Drain	O.D. / I.D.	mm	Ø32,0 / 25,0	Ø32,0 / 25,0	Ø32,0 / 25,0
Recommended Decoration Panel*	Model Name		-	PT-QAGW0	PT-QAGW0	PT-AFGW0
	Color		-	White	White	White
	Dimensions	Body	mm	620 x 34 x 620	620 x 34 x 620	950 x 35 x 950
	Weight	Body	kg	3,0	3,0	7,5
<b>OUTDOOR</b>				<b>UUA1 ULO</b>	<b>UUB1 U20</b>	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker		Min.	A	15	20	
Power Supply Cable (Included Earth)			No x mm³	3C x 1,5	3C x 2,5	
Dimensions	Net	W x H x D	mm	770 x 545 x 288	870 x 650 x 330	
Weight	Net		kg	33,3	44,5	
Compressor	Type		-	Twin Rotary	Twin Rotary	
	Type		-	R32	R32	
	GWP (Global Warming Potential)		-	675	675	
Refrigerant	Precharged Amount		kg	1,0	1,2	
	t-CO <sub>2</sub> eq		-	0,675	0,81	
	Additional Charge (After 7.5m)		g/m	20	20	
Fan	Air Flow Rate	Rated	m³/min x No.	28 x 1	50 x 1	
Total Piping Length		Min. / Max.	m	5 / 30	5 / 30	
Piping Elevation	IDU - ODU	Max	m	30	30	

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

- 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)

**H-INVERTER (R32)**

UT24FH / UT30FH



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

UUC1 U40



COMBINATION				24	30
Capacity	Cooling	Min. / Rated / Max.	kW	2,7 / 6,8 / 8,3	3,2 / 8,0 / 9,5
	Heating	Min. / Rated / Max.	kW	3,2 / 7,9 / 9,9	3,6 / 9,0 / 10,7
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,30 / 1,66 / 2,31	0,40 / 2,12 / 2,82
	Heating	Min. / Rated / Max.	kW	0,40 / 1,76 / 2,53	0,40 / 2,14 / 2,93
Running Current	Cooling	Rated	A	7,4	9,4
	Heating	Rated	A	7,8	9,5
EER / COP			kWh/kWh	4,10 / 4,48	3,77 / 4,20
SEER / SCOP			kWh/kWh	8,5 / 4,8	7,8 / 4,8
Pdesign	Cooling @ 35°C		kW	6,8	8
	Heating @ -10°C		kW	5,5	5,5
Seasonal Energy Label	Cooling / Heating		-	A+++ / A++	A++ / A++
Annual Energy Consumption	Cooling / Heating		kWh	280 / 1,604	359 / 1,604
Dehumidification Rate			l/h	1,7	2,7
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	48 / 52	50 / 52
ODU Sound Power Level	Cooling	Rated	dB(A)	65	68
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	-20 / 50	-20 / 50
	Heating	Min. / Max.	°C	-20 / 18	-20 / 18
<b>INDOOR</b>				<b>UT24FH NAO</b>	<b>UT30FH NAO</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	43 / 35 / 28	43 / 35 / 28
Air Flow Rate		H / M / L	m³/min	23,8 / 21,4 / 19,0	23,8 / 21,4 / 19,0
Dimensions	Body	W x H x D	mm	840 x 288 x 840	840 x 288 x 840
Weight	Body		kg	25,3	25,3
Sound Pressure Level	Cooling	H / M / L	dB(A)	42 / 41 / 40	42 / 41 / 40
Sound Power Level	Cooling	Max.	dB(A)	56	56
Piping Connections	Drain	O.D. / I.D.	mm	Ø32,0 / 25,0	Ø32,0 / 25,0
Recommended Decoration Panel*	Model Name		-	PT-AFGW0	PT-AFGW0
	Color		-	White	White
	Dimensions	Body	mm	950 x 35 x 950	950 x 35 x 950
	Weight	Body	kg	7,5	7,5
<b>OUTDOOR</b>				<b>UUC1 U40</b>	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	
Circuit Breaker		Min.	A	25	
Power Supply Cable (Included Earth)			No x mm³	3C x 2,5	
Dimensions	Net	W x H x D	mm	950 x 834 x 330	
Weight	Net		kg	57,7	
Compressor	Type		-	Twin Rotary	
	Type		-	R32	
	GWP (Global Warming Potential)		-	675	
Refrigerant	Precharged Amount		kg	1,9	
	t-CO <sub>2</sub> eq		-	1,283	
	Additional Charge (After 7.5m)		g/m	40	
Fan	Air Flow Rate	Rated	m³/min x No.	58 x 1	
Total Piping Length		Min. / Max.	m	5 / 50	
Piping Elevation	IDU - ODU	Max.	m	30	

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



STANDARD INVERTER (R32)

CT09F / CT12F / CT18F



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

UUA1 ULO UUB1 U20



COMBINATION				9	12	18
Capacity	Cooling	Min. / Rated / Max.	kW	1,5 / 2,5 / 3,2	1,5 / 3,4 / 4,5	2,0 / 5,0 / 5,8
	Heating	Min. / Rated / Max.	kW	1,8 / 3,2 / 3,7	1,8 / 4,1 / 5,0	2,3 / 5,7 / 6,6
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,30 / 0,61 / 0,87	0,30 / 0,98 / 1,62	0,30 / 1,57 / 2,20
	Heating	Min. / Rated / Max.	kW	0,30 / 0,75 / 0,89	0,30 / 1,11 / 1,57	0,30 / 1,52 / 2,13
Running Current	Cooling	Rated	A	2,7	4,4	8,0
	Heating	Rated	A	3,3	4,9	7,8
EER / COP			kWh/kWh	4,10 / 4,30	3,50 / 3,71	3,19 / 3,74
SEER / SCOP			kWh/kWh	6,7 / 4,0	6,7 / 4,0	6,4 / 4,3
Pdesign	Cooling @ 35°C		kW	2,5	3,4	5
	Heating @ -10°C		kW	2,8	2,8	4,1
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	131 / 980	178 / 980	273 / 1,335
Dehumidification Rate			l/h	0,63	1,26	1,89
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	49 / 52	49 / 52	47 / 52
ODU Sound Power Level	Cooling	Rated	dB(A)	65	65	63
Piping Connections	Liquid		mm (inch)	Ø6,35 (1/4)	Ø6,35 (1/4)	Ø6,35 (1/4)
	Gas		mm (inch)	Ø9,52 (3/8)	Ø9,52 (3/8)	Ø12,7 (1/2)
	Connections Method		-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-15 / 50	-15 / 50	-15 / 50
	Heating	Min. / Max.	°C	-20 / 18	-20 / 18	-20 / 18
<b>INDOOR</b>				<b>CT09F NRO</b>	<b>CT12F NRO</b>	<b>CT18F NQ0</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	26 / 22 / 19	28 / 24 / 20	30 / 26 / 22
Air Flow Rate		H / M / L	m³/min	8,5 / 7,0 / 6,0	9,5 / 8,0 / 7,0	13 / 12 / 11
Dimensions	Body	W x H x D	mm	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570
Weight	Body		kg	12,4	12,4	13,9
Sound Pressure Level	Cooling	H / M / L	dB(A)	36 / 33 / 30	38 / 35 / 32	41 / 39 / 37
Sound Power Level	Cooling	Max.	dB(A)	52	52	57
Piping Connections	Drain	O.D. / I.D.	mm	Ø32,0 / 25,0	Ø32,0 / 25,0	Ø32,0 / 25,0
Recommended Decoration Panel*	Model Name		-	PT-QAGW0	PT-QAGW0	PT-QAGW0
	Color		-	White	White	White
	Dimensions	Body	mm	620 x 34 x 620	620 x 34 x 620	620 x 34 x 620
	Weight	Body	kg	3,0	3,0	3,0
<b>OUTDOOR</b>				<b>UUA1 ULO</b>	<b>UUB1 U20</b>	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker		Min.	A	15	20	
Power Supply Cable (Included Earth)			No x mm³	3C x 1,5	3C x 2,5	
Dimensions	Net	W x H x D	mm	770 x 545 x 288	870 x 650 x 330	
Weight	Net		kg	33,3	44,5	
Compressor	Type		-	Twin Rotary	Twin Rotary	
	Type		-	R32	R32	
	GWP (Global Warming Potential)		-	675	675	
	Precharged Amount		kg	1,0	1,2	
	t-CO <sub>2</sub> eq		-	0,675	0,81	
Refrigerant	Additional Charge (After 7.5m)		g/m	20	20	
	Fan	Air Flow Rate	Rated	m³/min x No.	28 x 1	50 x 1
Total Piping Length		Min. / Max.	m	5 / 30	5 / 30	
Piping Elevation	IDU - ODU	Max.	m	30	30	

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

- 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)

STANDARD INVERTER (R32)

CT24F / UT30F



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UUC1 U40



COMBINATION				24	30
Capacity	Cooling	Min. / Rated / Max.	kW	2,7 / 6,8 / 8,0	3,2 / 8,0 / 9,2
	Heating	Min. / Rated / Max.	kW	3,0 / 7,5 / 9,0	3,6 / 8,9 / 10,1
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,40 / 1,93 / 2,66	0,50 / 2,45 / 3,14
	Heating	Min. / Rated / Max.	kW	0,40 / 1,96 / 2,84	0,50 / 2,62 / 3,25
Running Current	Cooling	Rated	A	8,6	10,9
	Heating	Rated	A	8,7	11,6
EER / COP			kWh/kWh	3,52 / 3,83	3,27 / 3,40
SEER / SCOP			kWh/kWh	7,4 / 4,3	7,1 / 4,3
Pdesign	Cooling @ 35°C		kW	6,8	8
	Heating @ -10°C		kW	5,6	5,6
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	322 / 1,823	394 / 1,823
Dehumidification Rate			l/h	2,8	2,8
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	48 / 52	50 / 52
ODU Sound Power Level	Cooling	Rated	dB(A)	65	68
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	-20 / 50	-20 / 50
	Heating	Min. / Max.	°C	-20 / 18	-20 / 18
<b>INDOOR</b>				<b>CT24F NBO</b>	<b>UT30F NBO</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	36 / 26 / 21	40 / 33 / 26
Air Flow Rate		H / M / L	m³/min	18 / 15,5 / 14	19 / 17 / 15,5
Dimensions	Body	W x H x D	mm	840 x 204 x 840	840 x 204 x 840
Weight	Body		kg	21,1	21,1
Sound Pressure Level	Cooling	H / M / L	dB(A)	38 / 36 / 34	40 / 37 / 35
Sound Power Level	Cooling	Max.	dB(A)	53	57
Piping Connections	Drain	O.D. / I.D.	mm	Ø32,0 / 25,0	Ø32,0 / 25,0
Recommended Decoration Panel*	Model Name		-	PT-AAGW0	PT-AAGW0
	Color		-	White	White
	Dimensions	Body	mm	950 x 35 x 950	950 x 35 x 950
	Weight	Body	kg	7,1	7,1
<b>OUTDOOR</b>				<b>UUC1 U40</b>	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	
Circuit Breaker		Min.	A	25	
Power Supply Cable (Included Earth)			No x mm³	3C x 2,5	
Dimensions	Net	W x H x D	mm	950 x 834 x 330	
Weight	Net		kg	57,7	
Compressor	Type		-	Twin Rotary	
	Type		-	R32	
	GWP (Global Warming Potential)		-	675	
	Precharged Amount		kg	1,9	
	t-CO <sub>2</sub> eq		-	1,283	
Refrigerant	Additional Charge (After 7.5m)		g/m	40	
	Fan	Air Flow Rate	Rated	m³/min x No.	58 x 1
Total Piping Length		Min. / Max.	m	5 / 50	
Piping Elevation	IDU - ODU	Max.	m	30	

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

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

CT18F / CT24F / UT30F / UT36F

UUA1 ULO

UUB1 U20

UUC1 U40



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COMBINATION				18	24	30	36
Capacity	Cooling	Min. / Rated / Max.	kW	1.8 / 5.0 / 5.5	2.7 / 6.8 / 7.5	3.0 / 7.5 / 8.3	3.8 / 9.5 / 10.8
	Heating	Min. / Rated / Max.	kW	2.1 / 5.2 / 5.7	3.0 / 7.5 / 8.6	3.2 / 7.9 / 8.7	4.3 / 10.8 / 11.7
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0.34 / 1.76 / 2.11	0.40 / 2.00 / 2.40	0.50 / 2.31 / 2.77	0.60 / 2.79 / 3.57
	Heating	Min. / Rated / Max.	kW	0.30 / 1.45 / 1.87	0.40 / 2.21 / 2.87	0.50 / 2.37 / 3.08	0.60 / 2.77 / 3.30
Running Current	Cooling	Rated	A	7.8	8.8	10.1	12.4
	Heating	Rated	A	6.4	9.6	10.4	12.3
EER / COP			kWh/kWh	2.85 / 3.60	3.40 / 3.39	3.25 / 3.34	3.40 / 3.90
SEER / SCOP			kWh/kWh	6.3 / 3.9	7.0 / 4.2	6.8 / 4.2	6.7 / 4.3
Pdesign	Cooling @ 35°C		kW	5	6.8	7.5	9.5
	Heating @ -10°C		kW	2.8	4.1	4.1	5.6
Seasonal Energy Label	Cooling / Heating		-	A++ / A	A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	278 / 1,005	340 / 1,367	386 / 1,367	496 / 1,823
Dehumidification Rate			l/h	1.8	2.6	3.1	2.5
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	49 / 52	48 / 53	50 / 54	54 / 56
ODU Sound Power Level	Cooling	Rated	dB(A)	65	65	67	70
Piping Connections	Liquid		mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø9.52 (3/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections Method			-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-10 / 50	-10 / 48	-10 / 48	-20 / 50
	Heating	Min. / Max.	°C	-10 / 18	-15 / 18	-15 / 18	-15 / 18
<b>INDOOR</b>				<b>CT18F NQ0</b>	<b>CT24F NB0</b>	<b>UT30F NB0</b>	<b>UT36F NAO</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	30 / 26 / 22	36 / 26 / 21	40 / 33 / 26	60 / 50 / 45
Air Flow Rate		H / M / L	m³/min	13 / 12 / 11	18 / 15.5 / 14	19 / 17 / 15.5	27.5 / 25 / 22.5
Dimensions	Body	W x H x D	mm	570 x 256 x 570	840 x 204 x 840	840 x 204 x 840	840 x 288 x 840
	Weight		kg	13.9	21.1	21.1	25.3
Sound Pressure Level	Cooling	H / M / L	dB(A)	41 / 39 / 37	38 / 36 / 34	40 / 37 / 35	44 / 42 / 41
Sound Power Level	Cooling	Max.	dB(A)	57	53	57	61
Piping Connections	Drain	O.D. / I.D.	mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
Recommended Decoration Panel*	Model Name		-	PT-AAGW0	PT-AAGW0	PT-AAGW0	PT-AAGW0
	Color		-	White	White	White	White
	Dimensions	Body	mm	620 x 34 x 620	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Weight	Body	kg	3.0	7.1	7.1	7.1
<b>OUTDOOR</b>				<b>UUA1 ULO</b>	<b>UUB1 U20</b>	<b>UUC1 U40</b>	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker		Min.	A	15	20	25	
Power Supply Cable (Included Earth)			No x mm³	3C x 1.5	3C x 2.5	3C x 2.5	
Dimensions	Net	W x H x D	mm	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330	
Weight	Net		kg	33.3	44.5	57.7	
Compressor	Type		-	Twin Rotary	Twin Rotary	Twin Rotary	
	Type		-	R32	R32	R32	
	GWP (Global Warming Potential)		-	675	675	675	
	Precharged Amount		kg	1.0	1.2	1.9	
Refrigerant	t-CO <sub>2</sub> eq		-	0.675	0.81	1.283	
	Additional Charge (After 7.5m)		g/m	20	40	40	
Fan	Air Flow Rate	Rated	m³/min x No.	28 x 1	50 x 1	58 x 1	
Total Piping Length		Min. / Max.	m	5 / 30	5 / 35	5 / 50	
Piping Elevation	IDU - ODU	Max.	m	30	30	30	

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

Note :

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- 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.
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Cassette Panel



Model Name

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

Key Features

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

Specification

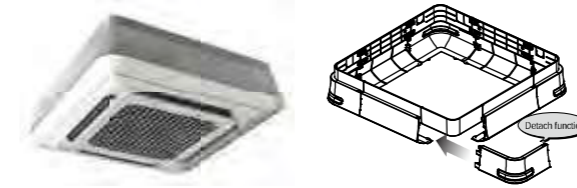
Model	Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)		
					W	H	D
PT-AAGW0	Grid	White (RAL 9003)	-	7.1	950	35	950
PT-AFGW0	Grid	White (RAL 9003)	-	7.5	950	35	950
PT-QAGW0	Grid	White (RAL 9003)	-	3.0	620	34	620

Air Purification Kit

Model	Type	Image	Model Name	Dielectric Dust Collecting Filter	Photocatalytic Deodorizing Filter	HVPS	Ionizer
Air Purification Kit	4 Way		PTAHMPO		O	O	O

Cassette Cover

Cover in case of exposed cassette installation.



Model Name

PTDCQ / PTDCA\*

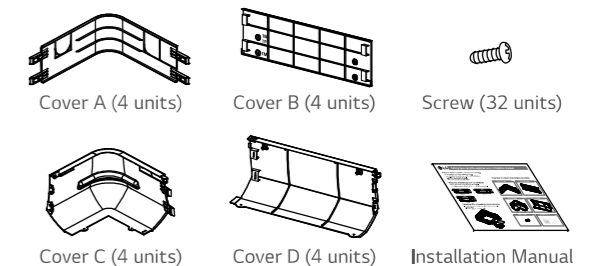
\* PTDCA suitable for Dual Vane 4 Way CST (840 x 840) will be available later.

Applied Products

4 Way Cassette (for chassis TQ, TR)

Included Parts

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



Key Features

- Specially designed for indoor unit
- Covers the side area of cassette
- Gives elegant looks
- Light weight

Specification

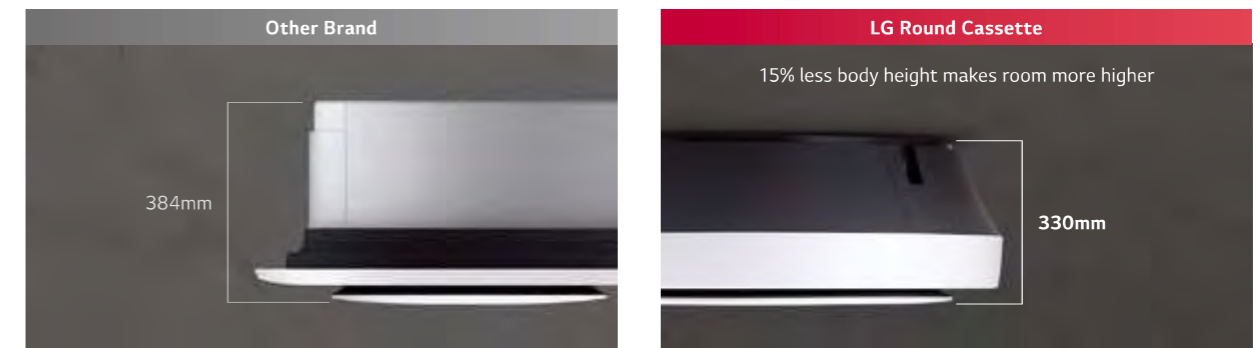
Model	Front Panel		Weight (kg)		Dimensions (mm)		
			NET	Gross	W	H	D
PTDCQ	PT-UQC	TR	5.0	7.2	907	907	268
		TQ	5.0	7.2	907	907	310

# ROUND CASSETTE



## Slim and Compact Design

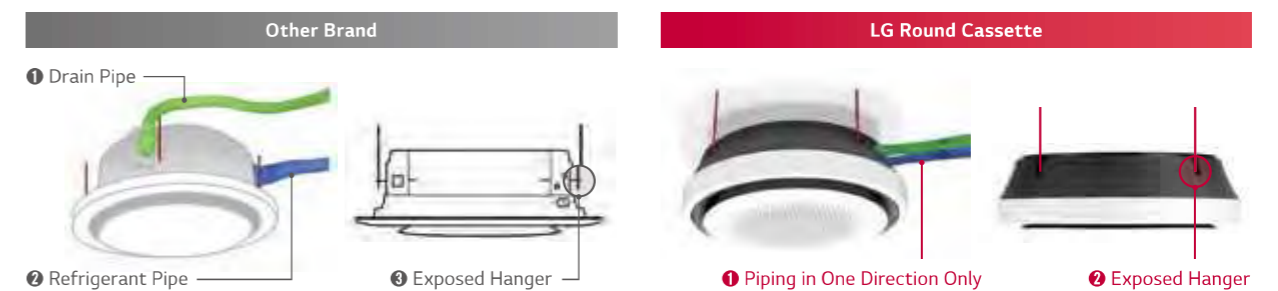
The LG Round Cassette's compact design makes the space look more spacious and secure.



※ Product : 11 / 13.4kW

## Minimal Exposure Design

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

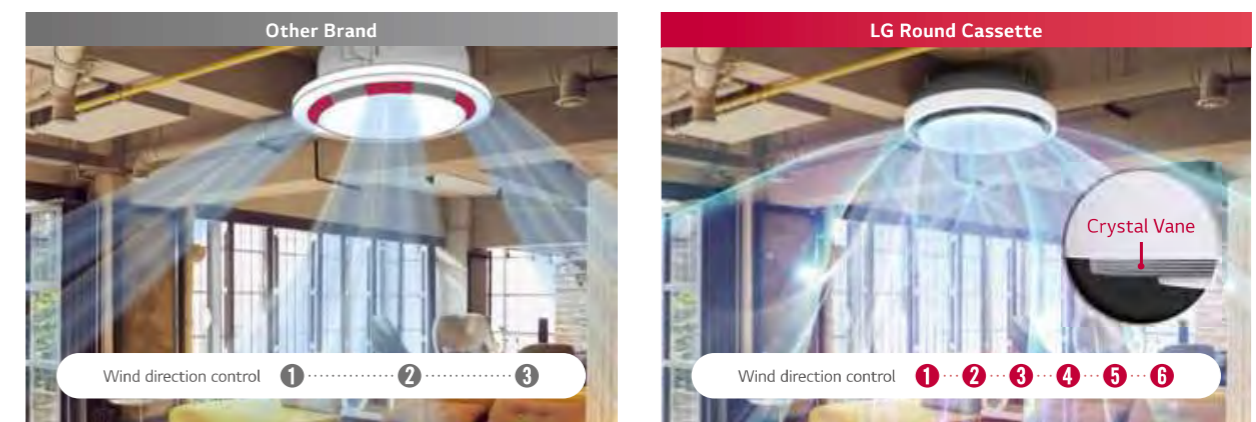


This air conditioning impresses with a sophisticated design and application concept that combines modern technology with a user-friendly operating comfort.

※ Red Dot Design Award : World's three major international design competitions, German Design Association (2019)  
PIN UP Design Award : Korea Industrial Designers Association (Ministry of Trade, Industry and Energy) (2018)

## 6-Step Vane Control

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



## Perfect Round Airflow

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



3 Way airflow with blind spot.

Perfect circular airflow without blind spots.

## Quiet Operation

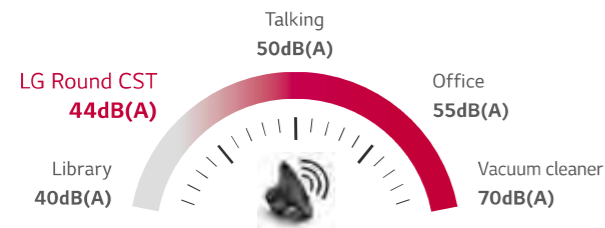
LG Round cassette makes the space quieter.

### Sound Pressure

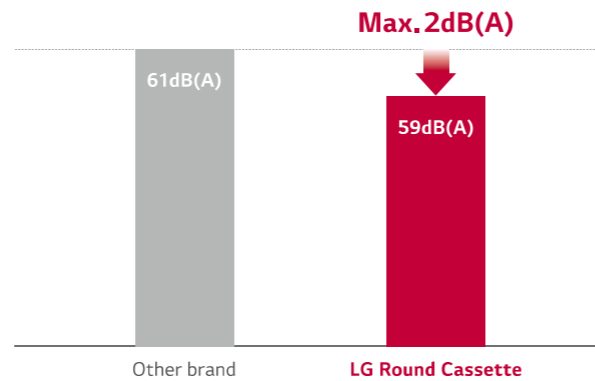


Normal communication  
Noise level 50dB(A)

Library  
Noise level 40dB(A)



### Sound Power



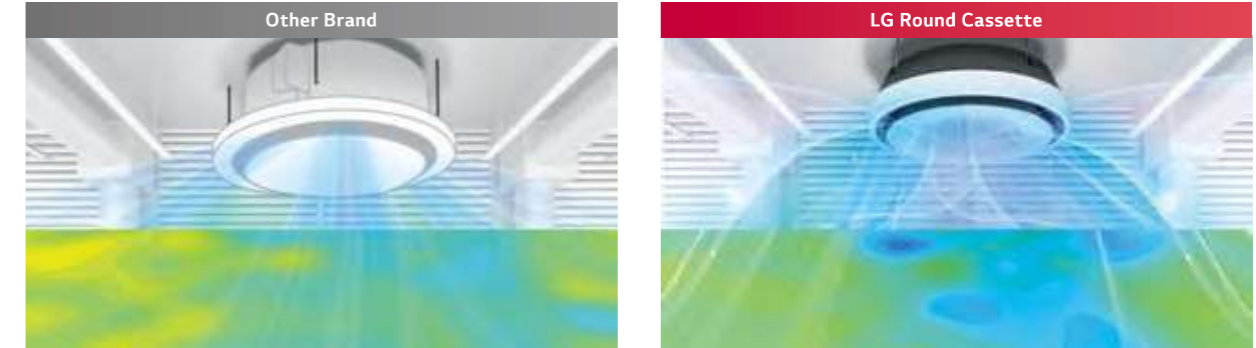
### Sound power levels (cooling)\_dB(A)

Other brand	LG Round Cassette
61	Max. 59

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

## Faster in Cooling

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



Set temperature reach time 18 minutes (Height 1.1m)

Set temperature reach time 12 minutes (Height 1.1m)

※ Based on test results from LG chamber, this image is designed to help customers understand.  
Experimental environment : height 3.2m, cooling mode, high flow rate, horizontal air flow direction, initial temperature :33°C, setting temperature 26°C

## Outside Control Box

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

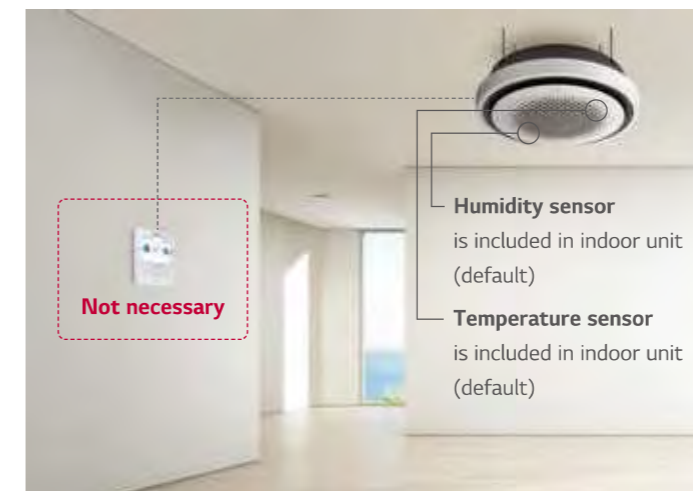


Inconvenient installation  
Inside control box / hard to installation

Convenient installation  
Outside control box / easy to installation

## Embedded Humidity Sensor

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



### Simple Setting

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



- Press the 'Set' button



Set Button





STANDARD INVERTER (R32)

UT36F NYO / UT48F NYO



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UUD1 U30



STANDARD INVERTER (R32)

UT36F NYO / UT48F NYO



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UUD3 U30



COMBINATION				36	48
Capacity	Cooling	Min. / Rated / Max.	kW	3,80 / 11,00 / 12,54	5,40 / 13,40 / 15,68
	Heating	Min. / Rated / Max.	kW	4,30 / 12,20 / 13,39	6,20 / 15,50 / 17,52
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,50 / 3,06 / 3,98	0,90 / 4,39 / 5,71
	Heating	Min. / Rated / Max.	kW	0,50 / 3,13 / 4,26	0,90 / 4,56 / 5,56
Running Current	Cooling	Rated	A	10,10	19,50
	Heating	Rated	A	10,70	20,20
EER / COP			kWh/kWh	3,60 / 3,90	3,05 / 3,40
SEER / SCOP			kWh/kWh	6,80 / 4,30	6,50 / 4,30
P Design	Cooling @ 35°C		kW	11,0	13,4
	Heating @-10°C		kW	9,0	9,0
Seasonal Energy Label	Cooling / Heating		-	- / -	- / -
Annual Energy Consumption	Cooling / Heating		kWh	566 / 2,930	1,237 / 2,930
Dehumidification Rate			ℓ/h	4,27	5,65
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 50	52 / 53
ODU Sound Power Level	Cooling / Heating	Rated	dB(A)	66 / -	69 / 69
Piping Connections	Liquid	Outer Dia.	mm (inch)	Ø 9,52 (3/8)	Ø 9,52 (3/8)
	Gas	Outer Dia.	mm (inch)	Ø 15,88 (5/8)	Ø 15,88 (5/8)
	Connections Method		-	Flare	Flare
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-20 / 52	-20 / 52
	Heating	Min. / Max.	°C	-25 / 18	-25 / 18
INDOOR				UT36F NYO	UT48F NYO
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input ( IDU)		H / M / L	W	90 / 66 / 48	125 / 90 / 66
Air Flow Rate		H / M / L	m³/min	25,0 / 21,0 / 19,0	29,0 / 25,0 / 21,0
Dimensions	Body	W x H x D	mm	1,050 x 330 x 1,050	1,050 x 330 x 1,050
Weight	Body		kg	30,0	30,0
Sound Pressure Level	Cooling	H / M / L	dB(A)	44,0 / 40,0 / 38,0	47,0 / 44,0 / 40,0
	Heating	H / M / L	dB(A)	47,0 / 43,0 / 40,0	49,0 / 46,0 / 42,0
Sound Power Level	Cooling	Rated	dB(A)	59	60
	Heating	Rated	dB(A)	-	62
Piping Connections	Drain Pipe	O.D. / I.D.	mm	Ø 32,0 / 25,0	Ø 32,0 / 25,0
OUTDOOR				UUD1 U30	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	
Circuit Breaker		Min.	A	40	
Power Supply Cable (included Earth)			No. x mm²	3C x 6,0	
Dimensions	Net	W x H x D	mm	950 x 1,380 x 330	
Weight	Net		kg	85,0	
Compressor	Type		-	LG Inverter Scroll	
	Type		-	R32	
Refrigerant	GWP (Global Warming Potential)		-	675	
	Precharged Amount		kg	3,0	
	t-CO <sub>2</sub> eq.		-	2,025	
	Additional Charging Volume		g/m	40	
Fan	Air Flow Rate	Rated	m³/min x No.	55 x 2	
Total Piping Length		Min. / Max.	m	5 / 85	
Piping Elevation	IDU-ODU	Max.	m	30	

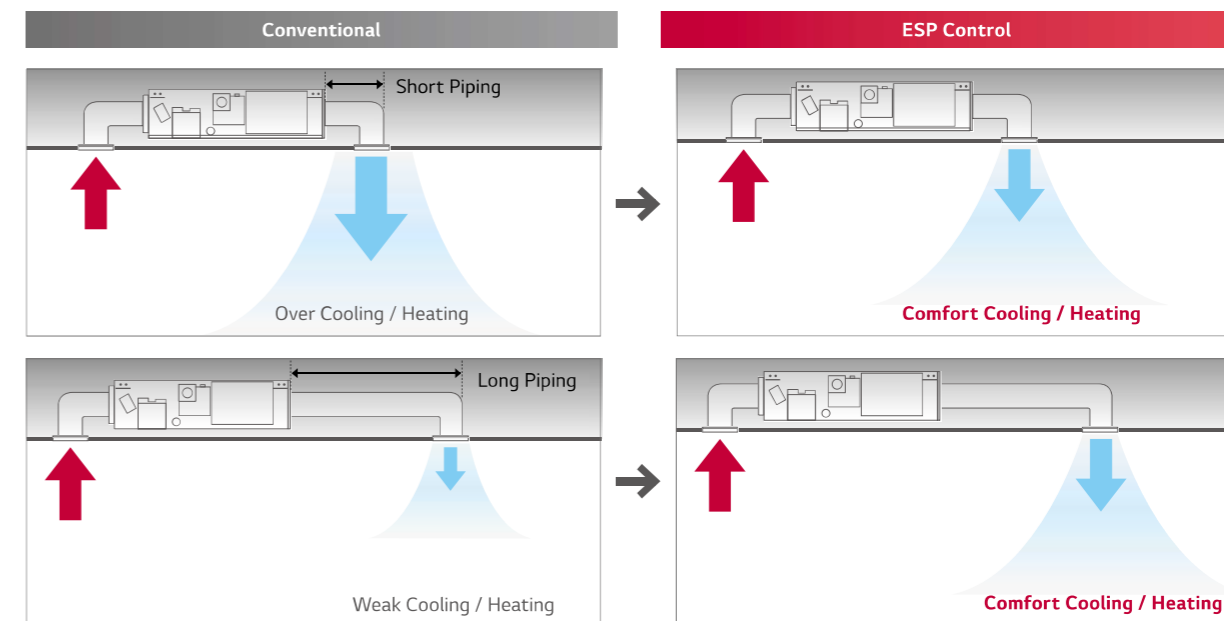
COMBINATION				36	48
Capacity	Cooling	Min. / Rated / Max.	kW	3,80 / 11,00 / 12,54	5,40 / 13,40 / 15,68
	Heating	Min. / Rated / Max.	kW	4,30 / 12,20 / 13,39	6,20 / 15,50 / 17,52
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,50 / 3,06 / 3,98	0,90 / 4,39 / 5,71
	Heating	Min. / Rated / Max.	kW	0,50 / 3,13 / 4,26	0,90 / 4,56 / 5,56
Running Current	Cooling	Rated	A	5,20	7,00
	Heating	Rated	A	5,30	7,30
EER / COP			kWh/kWh	3,60 / 3,90	3,05 / 3,40
SEER / SCOP			kWh/kWh	6,80 / 4,30	6,50 / 4,30
P Design	Cooling @ 35°C		kW	11,0	13,4
	Heating @-10°C		kW	9,0	9,0
Seasonal Energy Label	Cooling / Heating		-	- / -	- / -
Annual Energy Consumption	Cooling / Heating		kWh	566 / 2,931	1,237 / 2,931
Dehumidification Rate			ℓ/h	4,27	5,65
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 50	52 / 53
ODU Sound Power Level	Cooling / Heating	Rated	dB(A)	66 / -	69 / 69
Piping Connections	Liquid	Outer Dia.	mm (inch)	Ø 9,52 (3/8)	Ø 9,52 (3/8)
	Gas	Outer Dia.	mm (inch)	Ø 15,88 (5/8)	Ø 15,88 (5/8)
	Connections Method		-	Flare	Flare
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-20 / 52	-20 / 52
	Heating	Min. / Max.	°C	-25 / 18	-25 / 18
INDOOR				UT36F NYO	UT48F NYO
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input ( IDU)		H / M / L	W	90 / 66 / 48	125 / 90 / 66
Air Flow Rate		H / M / L	m³/min	25,0 / 21,0 / 19,0	29,0 / 25,0 / 21,0
Dimensions	Body	W x H x D	mm	1,050 x 330 x 1,050	1,050 x 330 x 1,050
Weight	Body		kg	30,0	30,0
Sound Pressure Level	Cooling	H / M / L	dB(A)	44,0 / 40,0 / 38,0	47,0 / 44,0 / 40,0
	Heating	H / M / L	dB(A)	47,0 / 43,0 / 40,0	49,0 / 46,0 / 42,0
Sound Power Level	Cooling	Rated	dB(A)	59	60
	Heating	Rated	dB(A)	-	62
Piping Connections	Drain Pipe	O.D. / I.D.	mm	Ø 32,0 / 25,0	Ø 32,0 / 25,0
OUTDOOR				UUD3 U30	
Power Supply			Ø / V / Hz	3 / 380-415 / 50	
Circuit Breaker		Min.	A	20	
Power Supply Cable (included Earth)			No. x mm²	5C x 2,5	
Dimensions	Net	W x H x D	mm	950 x 1,380 x 330	
Weight	Net		kg	85,0	
Compressor	Type		-	LG Inverter Scroll	
	Type		-	R32	
Refrigerant	GWP (Global Warming Potential)		-	675	
	Precharged Amount		kg	3,0	
	t-CO <sub>2</sub> eq.		-	2,025	
	Additional Charging Volume		g/m	40	
Fan	Air Flow Rate	Rated	m³/min x No.	55 x 2	
Total Piping Length		Min. / Max.	m	5 / 85	
Piping Elevation	IDU-ODU	Max.	m	30	

# CEILING CONCEALED DUCT



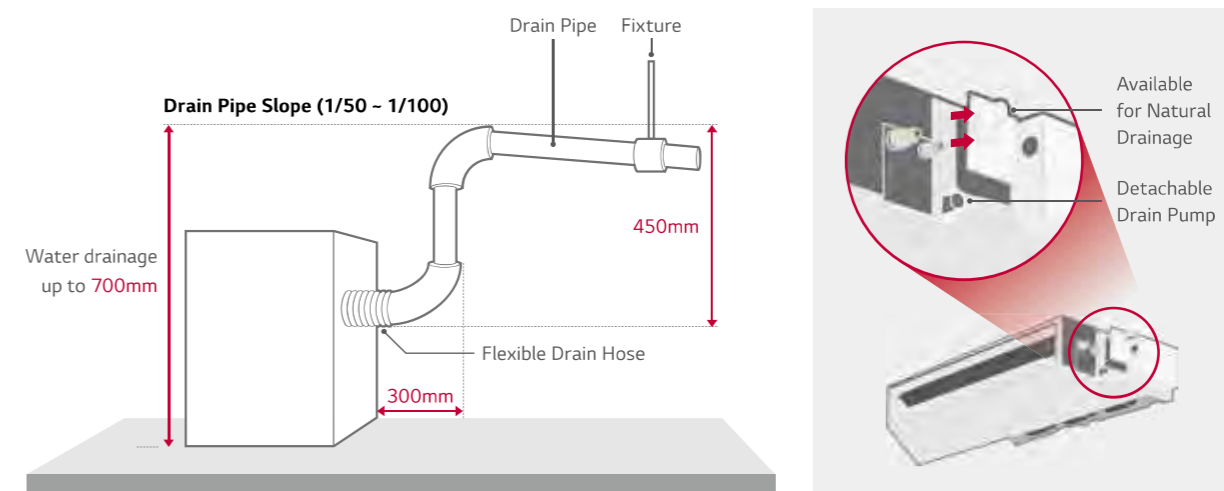
## External Static Pressure (ESP) Control

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



## High Head Drain Pump

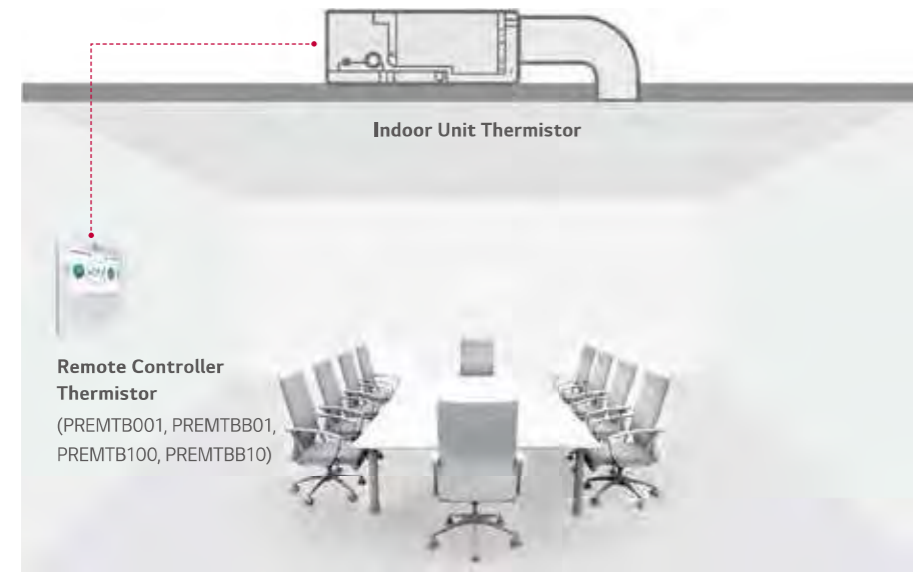
High head drain pump automatically drains water up to a height of 700mm of drain-head height. It provides the perfect solution for draining of water.



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

## Two Thermistors Control

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



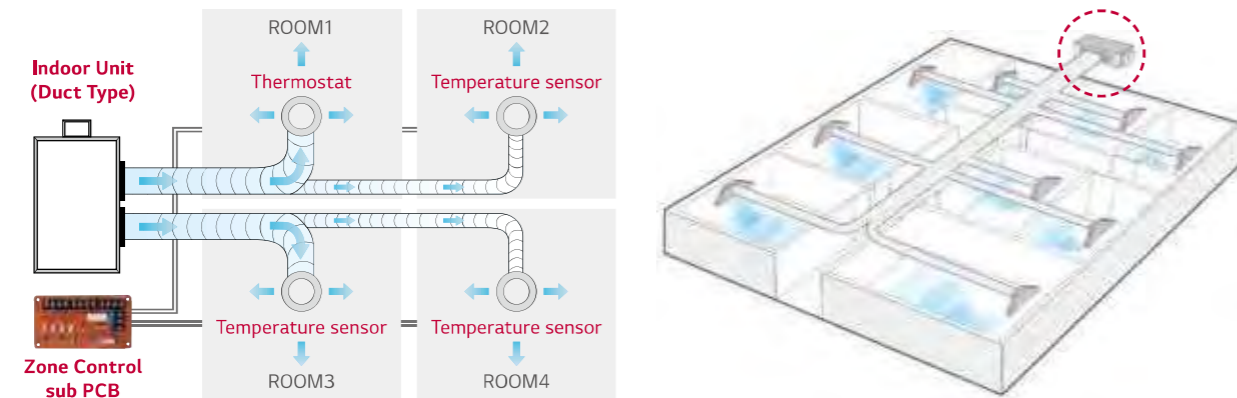
Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users.

## Operation for Multiple Rooms

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

### Zone control features

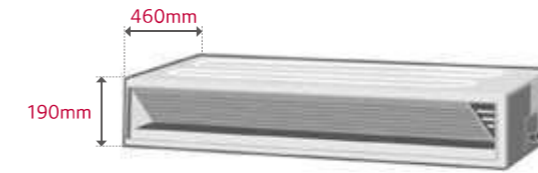
- Controls different zones (Up to 4 zones) by external thermostat (AC 24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation



## Minimized Height and Depth

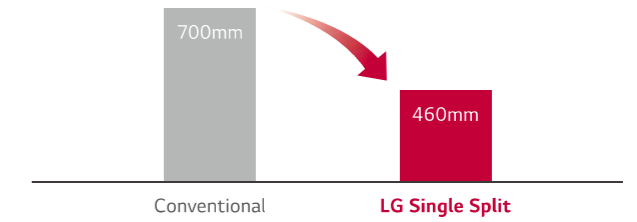
New Low Static ducts provide ideal solution for installation in limited space.

### Low Static Duct



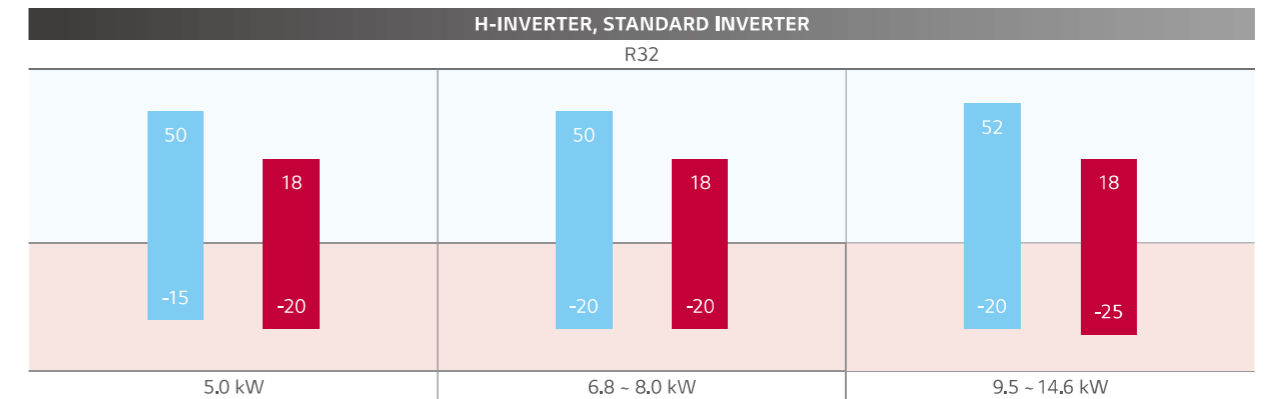
※ CL09F N50, CL12F N50, CL18F N60, UL12FH N50 only

### Depth



※ 2.5 / 3.4 / 5 kW

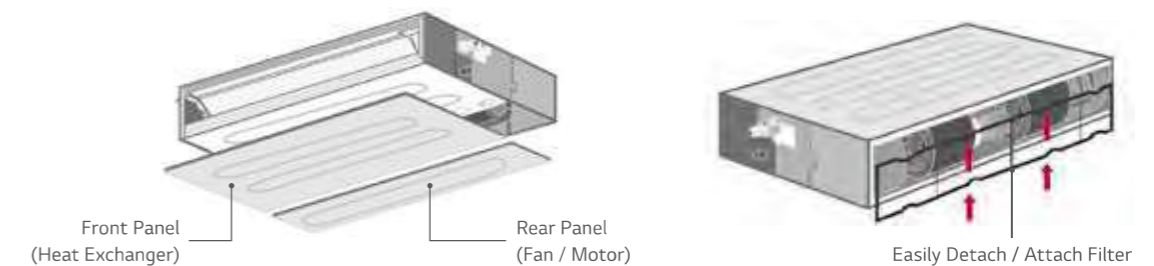
## Wide Operation Range



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

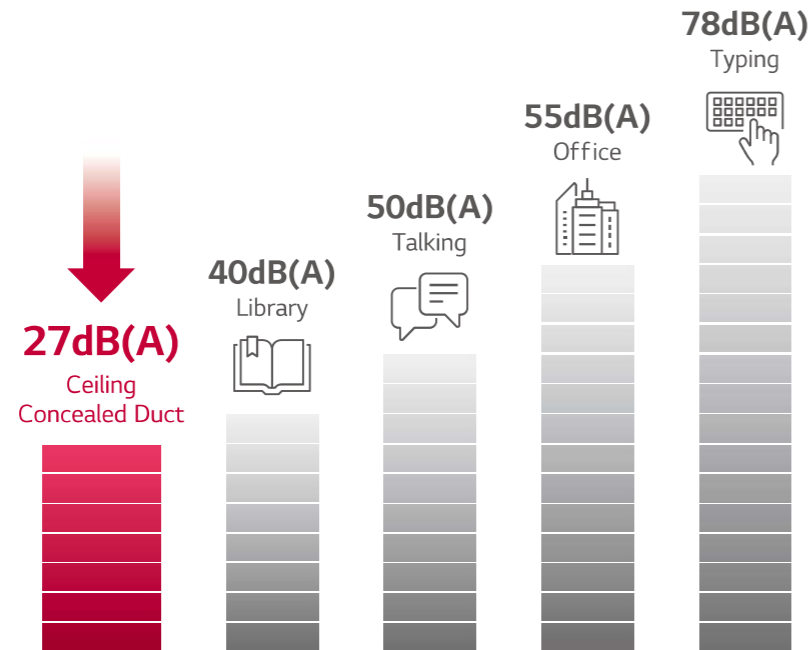
## Easy Service & Maintenance

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



## Quiet Operation (Low Static Pressure Model)

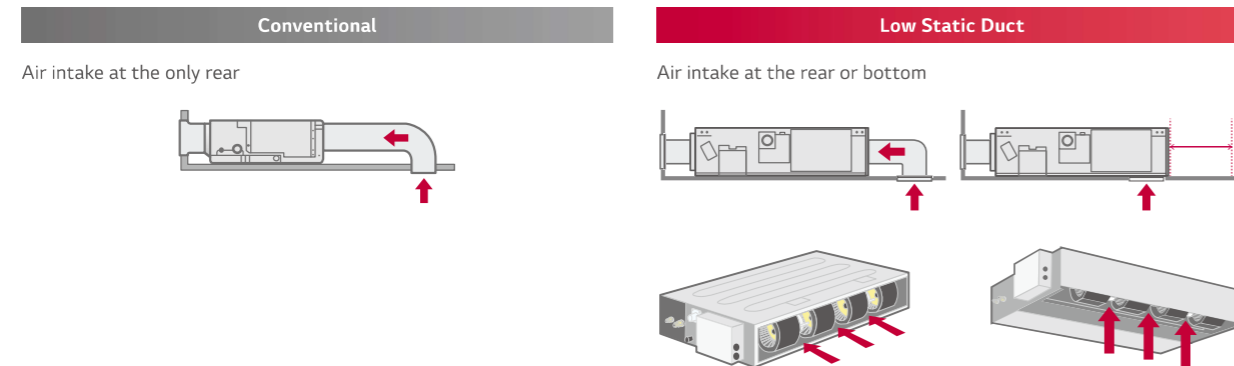
The noise level of low static ducts have been reduced, even though ESP has been increased.



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

## Flexible Installation (Low Static Pressure Model)

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



### H-INVERTER (R32)

LOW STATIC PRESSURE  
- UL12FH / UL18FH



UUA1 ULO UUB1 U20



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COMBINATION				12	18
Capacity	Cooling	Min. / Rated / Max.	kW	1.5 / 3.4 / 4.7	2.0 / 5.0 / 6.0
	Heating	Min. / Rated / Max.	kW	1.8 / 4.0 / 4.9	2.3 / 5.8 / 7.0
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0.33 / 1.05 / 1.84	0.30 / 1.39 / 1.88
	Heating	Min. / Rated / Max.	kW	0.33 / 1.08 / 1.63	0.30 / 1.56 / 2.12
Running Current	Cooling	Rated	A	4.7	7.6
	Heating	Rated	A	4.8	8.1
EER / COP			kWh / kWh	3.23 / 3.71	3.60 / 3.71
SEER / SCOP			kWh / kWh	6.1 / 4.0	6.5 / 4.1
Pdesign	Cooling @ 35°C		kW	3.4	5
	Heating @ -10°C		kW	2.9	4.1
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	195 / 1,015	269 / 1,400
Dehumidification Rate			l/h	0.8	2.6
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	49 / 52	47 / 52
	Cooling	Rated	dB(A)	65	63
Piping Connections	Liquid		mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas		mm (inch)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Connections Method		-	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-15 / 50	-15 / 50
	Heating	Min. / Max.	°C	-20 / 18	-20 / 18
<b>INDOOR</b>				<b>UL12FH N50</b>	<b>UL18FH N30</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	21 / 15 / 13	140 / 125 / 100
Air Flow Rate		H / M / L	m³/min	11.5 / 9.5 / 8	18.5 / 15 / 11
Dimensions	Body	W x H x D	mm	900 x 190 x 460	1,100 x 190 x 700
Weight	Body		kg	18	26.0
Sound Pressure Level	Cooling	H / M / L	dB(A)	35 / 30 / 27	38 / 34 / 31
Sound Power Level	Cooling	Max	dB(A)	55	56
Piping Connections	Drain	O.D. / I.D.	mm	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>				<b>UUA1 ULO</b>	<b>UUB1 U20</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker		Min	A	15	20
Power Supply Cable (Included Earth)			No x mm³	3C x 1.5	3C x 2.5
Dimensions	Net	W x H x D	mm	770 x 545 x 288	870 x 650 x 330
Weight	Net		kg	33.3	44.5
Compressor	Type		-	Twin Rotary	Twin Rotary
	Type		-	R32	R32
Refrigerant	GWP (Global Warming Potential)		-	675	675
	Precharged Amount		kg	1.0	1.2
	t-CO <sub>2</sub> eq		-	0.675	0.81
	Additional Charge (After 7.5m)		g/m	20	20
Fan	Air Flow Rate	Rated	m³/min x No.	28 x 1	50 x 1
Total Piping Length		Min. / Max.	m	5 / 30	5 / 30
Piping Elevation	IDU - ODU	Max	m	30	30

**H-INVERTER (R32)**

**MID STATIC PRESSURE**

- UM12FH / UM18FH / UM24FH / UM30FH



UUA1 ULO

UUB1 U20

UUC1 U40



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COMBINATION				12	18	24	30
Capacity	Cooling	Min. / Rated / Max.	kW	1,6 / 3,5 / 5,1	2,0 / 5,0 / 6,0	2,7 / 6,8 / 8,3	3,1 / 7,8 / 9,3
	Heating	Min. / Rated / Max.	kW	1,6 / 4,0 / 5,8	2,3 / 5,8 / 7,0	3,0 / 7,5 / 9,4	3,6 / 9,0 / 10,7
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,32 / 1,03 / 1,93	0,30 / 1,26 / 1,70	0,40 / 1,84 / 2,56	0,50 / 2,25 / 2,99
	Heating	Min. / Rated / Max.	kW	0,32 / 0,98 / 1,85	0,30 / 1,49 / 2,01	0,40 / 1,75 / 2,52	0,50 / 2,27 / 3,11
Running Current	Cooling	Rated	A	4,6	7,3	8,2	10,0
	Heating	Rated	A	4,3	7,8	7,8	10,1
EER / COP			kWh / kWh	3,40 / 4,10	3,96 / 3,89	3,70 / 4,28	3,51 / 3,97
SEER / SCOP			kWh / kWh	6,1 / 3,9	6,6 / 4,2	6,8 / 4,3	6,6 / 4,3
Pdesign	Cooling @ 35°C		kW	3,5	5	6,8	7,8
	Heating @ -10°C		kW	2,8	4,4	5,4	5,4
Seasonal Energy Label	Cooling / Heating		-	A++ / A	A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	201 / 1,005	265 / 1,467	350 / 1,758	419 / 1,758
Dehumidification Rate			l/h	0,4	1,3	1,2	2,2
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	49 / 52	47 / 52	48 / 52	50 / 52
ODU Sound Power Level	Cooling	Rated	dB(A)	65	63	65	68
Piping Connections	Liquid		mm (inch)	Ø6,35 (1/4)	Ø6,35 (1/4)	Ø9,52 (3/8)	Ø9,52 (3/8)
	Gas		mm (inch)	Ø9,52 (3/8)	Ø12,7 (1/2)	Ø15,88 (5/8)	Ø15,88 (5/8)
	Connections Method		-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-15 ~ 50	-15 ~ 50	-20 ~ 50	-20 ~ 50
	Heating	Min. / Max.	°C	-20 ~ 18	-20 ~ 18	-20 ~ 18	-20 ~ 18
<b>INDOOR</b>				<b>UM12FH N10</b>	<b>UM18FH N10</b>	<b>UM24FH N20</b>	<b>UM30FH N20</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	150 / 130 / 110	180 / 150 / 130	134 / 101 / 80	134 / 101 / 80
Air Flow Rate		H / M / L	m³/min	16,5 / 14,5 / 13	17,5 / 16 / 14	28 / 24 / 21	28 / 24 / 21
Dimensions	Body	W x H x D	mm	900 x 270 x 700	900 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700
Weight	Body		kg	25,4	27,0	39,3	39,3
Sound Pressure Level	Cooling	H / M / L	dB(A)	34 / 32 / 30	35 / 34 / 32	34 / 33 / 32	34 / 33 / 32
Sound Power Level	Cooling	Max.	dB(A)	56	60	59	59
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25,4 / 19,4	Ø25,4 / 19,4	Ø25,4 / 19,4	Ø25,4 / 19,4
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0
<b>OUTDOOR</b>				<b>UUA1 ULO</b>	<b>UUB1 U20</b>	<b>UUC1 U40</b>	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker		Min.	A	15	20	25	
Power Supply Cable (Included Earth)			No x mm³	3C x 1,5	3C x 2,5	3C x 2,5	
Dimensions	Net	W x H x D	mm	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330	
Weight	Net		kg	33,3	44,5	57,7	
Compressor	Type		-	Twin Rotary	Twin Rotary	Twin Rotary	
	Type		-	R32	R32	R32	
Refrigerant	GWPP (Global Warming Potential)		-	675	675	675	
	Precharged Amount		kg	1,0	1,2	1,9	
	t-CO <sub>2</sub> eq		-	0,675	0,81	1,283	
	Additional Charge (After 7,5m)		g/m	20	20	40	
Fan	Air Flow Rate	Rated	m³/min x No.	28 x 1	50 x 1	58 x 1	
Total Piping Length		Min. / Max.	m	5 / 30	5 / 30	5 / 50	
Piping Elevation	IDU - ODU	Max.	m	30	30	30	

**H-INVERTER (R32)**

**MID STATIC PRESSURE**

- UM36FH / UM42FH / UM48FH



UUD1 U30



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

COMBINATION				36	42	48
Capacity	Cooling	Min. / Rated / Max.	kW	3,8 / 9,5 / 12,8	4,8 / 12,0 / 14,4	5,4 / 13,4 / 16,1
	Heating	Min. / Rated / Max.	kW	4,3 / 10,8 / 13,7	5,4 / 13,5 / 16,2	6,2 / 15,5 / 17,8
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,50 / 2,26 / 3,39	0,70 / 3,38 / 4,56	0,80 / 4,12 / 5,56
	Heating	Min. / Rated / Max.	kW	0,50 / 2,57 / 3,60	0,70 / 3,51 / 4,56	0,80 / 4,18 / 5,24
Running Current	Cooling	Rated	A	10,0	14,9	18,1
	Heating	Rated	A	11,3	15,3	18,4
EER / COP			kWh / kWh	4,20 / 4,20	3,55 / 3,85	3,25 / 3,71
SEER / SCOP			kWh / kWh	6,4 / 4,2	6,2 / 4,1	6,1 / 4,1
Pdesign	Cooling @ 35°C		kW	9,5	12	13,4
	Heating @ -10°C		kW	9,5	9,5	9,5
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A+	-
Annual Energy Consumption	Cooling / Heating		kWh	520 / 3,167	677 / 3,244	1,318 / 3,244
Dehumidification Rate			l/h	2,0	4,2	4,8
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 50	51 / 52	52 / 53
ODU Sound Power Level	Cooling	Rated	dB(A)	66	69	69
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 ~ 52	-20 ~ 52	-20 ~ 52
	Heating	Min. / Max.	°C	-25 ~ 18	-25 ~ 18	-25 ~ 18
<b>INDOOR</b>				<b>UM36FH N30</b>	<b>UM42FH N30</b>	<b>UM48FH N30</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	242 / 159 / 124	242 / 159 / 124	242 / 159 / 124
Air Flow Rate		H / M / L	m³/min	40 / 34 / 28	40 / 34 / 28	40 / 34 / 28
Dimensions	Body	W x H x D	mm	1,250 x 360 x 700	1,250 x 360 x 700	1,250 x 360 x 700
Weight	Body		kg	44,3	44,3	44,3
Sound Pressure Level	Cooling	H / M / L	dB(A)	39 / 38 / 36	39 / 38 / 36	39 / 38 / 36
Sound Power Level	Cooling	Max.	dB(A)	65	65	65
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25,4 / 19,4	Ø25,4 / 19,4	Ø25,4 / 19,4
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0
<b>OUTDOOR</b>				<b>UUD1 U30</b>		
Power Supply			Ø / V / Hz	1 / 220-240 / 50		
Circuit Breaker		Min.	A	40		
Power Supply Cable (Included Earth)			No x mm³	3C x 6,0		
Dimensions	Net	W x H x D	mm	950 x 1,380 x 330		
Weight	Net		kg	85,0		
Compressor	Type		-	Inverter Scroll		
	Type		-	R32		
Refrigerant	GWPP (Global Warming Potential)		-	675		
	Precharged Amount		kg	3,0		
	t-CO <sub>2</sub> eq		-	2,025		
	Additional Charge (After 7,5m)		g/m	40		
Fan	Air Flow Rate	Rated	m³/min x No.	55 x 2		
Total Piping Length		Min. / Max.	m	5 / 85		
Piping Elevation	IDU - ODU	Max.	m	30		

**H-INVERTER (R32)**

**MID STATIC PRESSURE**

- UM36FH / UM42FH / UM48FH



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**UUD3 U30**



COMBINATION				36	42	48
Capacity	Cooling	Min. / Rated / Max.	kW	3,8 - 9,5 - 12,8	4,8 - 12,0 - 14,4	5,4 - 13,4 - 16,1
	Heating	Min. / Rated / Max.	kW	4,3 - 10,8 - 13,7	5,4 - 13,5 - 16,2	6,2 - 15,5 - 17,8
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,50 - 2,26 - 3,39	0,70 - 3,38 - 4,56	0,80 - 4,12 - 5,56
	Heating	Min. / Rated / Max.	kW	0,50 - 2,57 - 3,60	0,70 - 3,51 - 4,56	0,80 - 4,18 - 5,24
Running Current	Cooling	Rated	A	3,8	5,3	6,5
	Heating	Rated	A	4,1	5,5	6,5
EER / COP			kWh / kWh	4,20 / 4,20	3,55 / 3,85	3,25 / 3,71
SEER / SCOP			kWh / kWh	6,4 / 4,2	6,2 / 4,1	6,1 / 4,1
Pdesign	Cooling @ 35°C		kW	9,5	12	13,4
	Heating @ -10°C		kW	9,5	9,5	9,5
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A+	-
Annual Energy Consumption	Cooling / Heating		kWh	520 / 3,167	677 / 3,244	1,318 / 3,244
Dehumidification Rate			l/h	2,0	4,2	4,8
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 50	51 / 52	52 / 53
ODU Sound Power Level	Cooling	Rated	dB(A)	66	69	69
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 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max.	°C	-25 / 18	-25 / 18	-25 / 18
<b>INDOOR</b>				<b>UM36FH N30</b>	<b>UM42FH N30</b>	<b>UM48FH N30</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	242 / 159 / 124	242 / 159 / 124	242 / 159 / 124
Air Flow Rate		H / M / L	m³/min	40 / 34 / 28	40 / 34 / 28	40 / 34 / 28
Dimensions	Body	W x H x D	mm	1,250 x 360 x 700	1,250 x 360 x 700	1,250 x 360 x 700
Weight	Body		kg	44,3	44,3	44,3
Sound Pressure Level	Cooling	H / M / L	dB(A)	39 / 38 / 36	39 / 38 / 36	39 / 38 / 36
Sound Power Level	Cooling	Max.	dB(A)	65	65	65
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25,4 / 19,4	Ø25,4 / 19,4	Ø25,4 / 19,4
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0
<b>OUTDOOR</b>				<b>UUD3 U30</b>		
Power Supply			Ø / V / Hz	3 / 380-415 / 50		
Circuit Breaker		Min.	A	20		
Power Supply Cable (Included Earth)			No x mm³	5C x 2,5		
Dimensions	Net	W x H x D	mm	950 x 1,380 x 330		
Weight	Net		kg	85,0		
Compressor	Type		-	Inverter Scroll		
	Type		-	R32		
Refrigerant	GWP (Global Warming Potential)		-	675		
	Precharged Amount		kg	3,0		
	t-CO <sub>2</sub> eq		-	2,025		
	Additional Charge (After 7,5m)		g/m	40		
Fan	Air Flow Rate	Rated	m³/min x No.	55 x 2		
Total Piping Length		Min. / Max.	m	5 / 85		
Piping Elevation	IDU - ODU	Max.	m	30		

**STANDARD INVERTER (R32)**

**LOW STATIC PRESSURE**

- CL09F / CL12F / CL18F / CL24F



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**UUA1 U10**

**UUB1 U20**

**UUC1 U40**



COMBINATION				9	12	18	24
Capacity	Cooling	Min. / Rated / Max.	kW	1,5 / 2,5 / 3,2	1,5 / 3,4 / 4,7	2,0 / 5,0 / 5,8	2,7 / 6,8 / 7,8
	Heating	Min. / Rated / Max.	kW	1,8 / 3,2 / 4,0	1,8 / 4,0 / 4,9	2,3 / 5,8 / 6,7	3,0 / 7,5 / 9,0
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,30 / 0,67 / 0,93	0,33 / 1,05 / 1,84	0,3 / 1,35 / 1,89	0,4 / 2,03 / 2,84
	Heating	Min. / Rated / Max.	kW	0,38 / 0,75 / 1,63	0,33 / 1,08 / 1,63	0,4 / 1,77 / 2,48	0,4 / 2,13 / 3,30
Running Current	Cooling	Rated	A	3,0	4,7	7,5	9,0
	Heating	Rated	A	3,3	4,8	8,3	9,4
EER / COP			kWh / kWh	3,80 / 4,30	3,23 / 3,71	3,71 / 3,28	3,35 / 3,52
SEER / SCOP			kWh / kWh	6,1 / 4,0	5,6 / 3,8	6,1 / 3,9	6,2 / 3,9
Pdesign	Cooling @ 35°C		kW	2,5	3,4	5	6,8
	Heating @ -10°C		kW	2,9	2,9	4,1	5,4
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A+ / A	A++ / A	A++ / A
Annual Energy Consumption	Cooling / Heating		kWh	143 / 1,015	213 / 1,068	287 / 1,472	384 / 1,938
Dehumidification Rate			l/h	0,2	0,8	1,6	2,5
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	49 / 52	49 / 52	47 / 52	48 / 52
ODU Sound Power Level	Cooling	Rated	dB(A)	65	65	63	65
Piping Connections	Liquid		mm (inch)	Ø6,35 (1/4)	Ø6,35 (1/4)	Ø6,35 (1/4)	Ø9,52 (3/8)
	Gas		mm (inch)	Ø9,52 (3/8)	Ø9,52 (3/8)	Ø12,7 (1/2)	Ø15,88 (5/8)
	Connections Method		-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-15 / 50	-15 / 50	-15 / 50	-20 / 50
	Heating	Min. / Max.	°C	-20 / 18	-20 / 18	-20 / 18	-20 / 18
<b>INDOOR</b>				<b>CL09F N50</b>	<b>CL12F N50</b>	<b>CL18F N60</b>	<b>CL24F N30</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	21 / 15 / 13	21 / 15 / 13	100 / 90 / 80	150 / 130 / 110
Air Flow Rate		H / M / L	m³/min	11,5 / 9,5 / 8	11,5 / 9,5 / 8	15 / 12 / 10	20 / 16 / 12
Dimensions	Body	W x H x D	mm	900 x 190 x 460	900 x 190 x 460	1,100 x 190 x 460	1,100 x 190 x 700
Weight	Body		kg	18,0	18,0	20,9	26,0
Sound Pressure Level	Cooling	H / M / L	dB(A)	35 / 30 / 27	35 / 30 / 27	34 / 31 / 29	39 / 35 / 32
Sound Power Level	Cooling	Max.	dB(A)	55	55	56	58
Piping Connections	Drain	O.D. / I.D.	mm	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0
<b>OUTDOOR</b>				<b>UUA1 U10</b>			
Power Supply			Ø / V / Hz	1 / 220-240 / 50			
Circuit Breaker		Min.	A	15			
Power Supply Cable (Included Earth)			No x mm³	3C x 1,5			
Dimensions	Net	W x H x D	mm	770 x 545 x 288			
Weight	Net		kg	33,3			
Compressor	Type		-	Twin Rotary			
	Type		-	R32			
Refrigerant	GWP (Global Warming Potential)		-	675			
	Precharged Amount		kg	1,0			
	t-CO <sub>2</sub> eq		-	0,675			
	Additional Charge (After 7,5m)		g/m	20			
Fan	Air Flow Rate	Rated	m³/min x No.	28 x 1			
Total Piping Length		Min. / Max.	m	5 / 30			
Piping Elevation	IDU - ODU	Max.	m	30			

**STANDARD INVERTER (R32)**

**MID STATIC PRESSURE**  
- CM18F / CM24F / UM30F



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**UUB1 U20 UUC1 U40**



COMBINATION				18	24	30
Capacity	Cooling	Min. / Rated / Max.	kW	2,0 / 5,0 / 5,8	2,7 / 6,8 / 8,0	3,1 / 7,8 / 9,0
	Heating	Min. / Rated / Max.	kW	2,3 / 5,8 / 6,7	3,0 / 7,5 / 9,0	3,6 / 9,0 / 10,1
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,30 / 1,33 / 1,86	0,40 / 1,95 / 2,69	0,40 / 2,23 / 3,03
	Heating	Min. / Rated / Max.	kW	0,40 / 1,76 / 2,46	0,50 / 2,27 / 3,29	0,50 / 2,64 / 3,33
Running Current	Cooling	Rated	A	7,4	8,7	9,9
	Heating	Rated	A	8,3	10,1	11,7
EER / COP			kWh / kWh	3,75 / 3,30	3,49 / 3,31	3,50 / 3,41
SEER / SCOP			kWh / kWh	6,4 / 4,1	6,6 / 3,9	6,1 / 4,0
Pdesign	Cooling @ 35°C		kW	5	6,8	7,8
	Heating @ -10°C		kW	4,1	5,4	5,4
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	273 / 1,400	361 / 1,938	448 / 1,890
Dehumidification Rate			l/h	1,2	2,6	2,4
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	47 / 52	48 / 52	50 / 52
	Cooling	Rated	dB(A)	63	65	68
Piping Connections	Liquid		mm (inch)	Ø6,35 (1/4)	Ø9,52 (3/8)	Ø9,52 (3/8)
	Gas		mm (inch)	Ø12,7 (1/2)	Ø15,88 (5/8)	Ø15,88 (5/8)
	Connections Method		-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-15 / 50	-20 / 50	-20 / 50
	Heating	Min. / Max.	°C	-20 / 18	-20 / 18	-20 / 18
<b>INDOOR</b>				<b>CM18F N10</b>	<b>CM24F N10</b>	<b>UM30F N10</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	150 / 130 / 110	180 / 150 / 130	220 / 200 / 180
Air Flow Rate		H / M / L	m³/min	16,5 / 14,5 / 13	18 / 16,5 / 14,5	22 / 20 / 18
Dimensions	Body	W x H x D	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
Weight	Body		kg	24,6	24,6	26,2
Sound Pressure Level	Cooling	H / M / L	dB(A)	34 / 32 / 30	35 / 34 / 32	37 / 35 / 34
Sound Power Level	Cooling	Max.	dB(A)	59	60	62
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25,4 / 19,4	Ø25,4 / 19,4	Ø25,4 / 19,4
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0
<b>OUTDOOR</b>				<b>UUB1 U20</b>	<b>UUC1 U40</b>	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker		Min.	A	20	25	
Power Supply Cable (Included Earth)			No x mm³	3C x 2,5	3C x 2,5	
Dimensions	Net	W x H x D	mm	870 x 650 x 330	950 x 834 x 330	
Weight	Net		kg	44,5	57,7	
Compressor	Type		-	Twin Rotary	Twin Rotary	
	Type		-	R32	R32	
Refrigerant	GWP (Global Warming Potential)		-	675	675	
	Precharged Amount		kg	1,2	1,9	
	t-CO <sub>2</sub> eq		-	0,81	1,283	
	Additional Charge (After 7,5m)		g/m	20	40	
Fan	Air Flow Rate	Rated	m³/min x No.	50 x 1	58 x 1	
Total Piping Length		Min. / Max.	m	5 / 30	5 / 50	
Piping Elevation	IDU - ODU	Max.	m	30	30	

**STANDARD INVERTER (R32)**

**MID STATIC PRESSURE**  
- UM36F / UM42F / UM48F / UM60F



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**UUD1 U30**



COMBINATION				36	42	48	60
Capacity	Cooling	Min. / Rated / Max.	kW	3,8 / 9,5 / 12,5	4,8 / 12,0 / 14,0	5,4 / 13,4 / 15,7	5,8 / 14,6 / 15,8
	Heating	Min. / Rated / Max.	kW	4,3 / 10,8 / 13,4	5,4 / 13,5 / 15,8	6,2 / 15,5 / 17,5	6,7 / 16,8 / 18,1
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,50 / 2,50 / 3,80	0,70 / 3,48 / 4,52	0,90 / 4,32 / 5,62	1,00 / 4,95 / 5,54
	Heating	Min. / Rated / Max.	kW	0,60 / 2,77 / 3,77	0,80 / 3,74 / 4,86	0,90 / 4,31 / 5,26	0,90 / 4,60 / 5,29
Running Current	Cooling	Rated	A	11,1	15,3	19,0	21,6
	Heating	Rated	A	12,6	16,4	18,4	20,4
EER / COP			kWh / kWh	3,80 / 3,90	3,45 / 3,61	3,10 / 3,60	2,95 / 3,65
SEER / SCOP			kWh / kWh	5,80 / 3,90	5,60 / 3,90	5,80 / 4,00	5,60 / 4,00
Pdesign	Cooling @ 35°C		kW	9,5	12,0	13,4	14,6
	Heating @ -10°C		kW	9,5	9,5	9,5	9,5
Seasonal Energy Label	Cooling / Heating		-	A+ / A	A+ / A	- / -	- / -
Annual Energy Consumption	Cooling / Heating		kWh	573 / 3,410	750 / 3,410	1,386 / 3,325	1,564 / 3,325
Dehumidification Rate			l/h	2,9	4,4	4,8	4,7
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 50	51 / 52	52 / 53	54 / 54
	Cooling	Rated	dB(A)	66	69	69	71
Piping Connections	Liquid		mm (inch)	Ø9,52 (3/8)	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)	Ø15,88 (5/8)
	Connections Method		-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-20 / 52	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max.	°C	-25 / 18	-25 / 18	-25 / 18	-25 / 18
<b>INDOOR</b>				<b>UM36F N20</b>	<b>UM42F N20</b>	<b>UM48F N30</b>	<b>UM60F N30</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	183 / 134 / 101	266 / 200 / 145	242 / 159 / 124	342 / 287 / 242
Air Flow Rate		H / M / L	m³/min	32 / 28 / 24	38 / 33 / 28	40 / 34 / 28	50 / 45 / 40
Dimensions	Body	W x H x D	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700
Weight	Body		kg	38,5	38,5	43,5	43,5
Sound Pressure Level	Cooling	H / M / L	dB(A)	36 / 34 / 33	38 / 36 / 34	39 / 38 / 36	42 / 40 / 39
Sound Power Level	Cooling	Max.	dB(A)	60	62	65	66
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25,4 / 19,4	Ø25,4 / 19,4	Ø25,4 / 19,4	Ø25,4 / 19,4
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0
<b>OUTDOOR</b>				<b>UUD1 U30</b>			
Power Supply			Ø / V / Hz	1 / 220-240 / 50			
Circuit Breaker		Min.	A	40			
Power Supply Cable (Included Earth)			No x mm³	3C x 6,0			
Dimensions	Net	W x H x D	mm	950 x 1,380 x 330			
Weight	Net		kg	85			
Compressor	Type		-	Inverter Scroll			
	Type		-	R32			
Refrigerant	GWP (Global Warming Potential)		-	675			
	Precharged Amount		kg	3,0			
	t-CO <sub>2</sub> eq		-	2,025			
	Additional Charge (After 7,5m)		g/m	40			
Fan	Air Flow Rate	Rated	m³/min x No.	55 x 2			
Total Piping Length		Min. / Max.	m	5 / 85			
Piping Elevation	IDU - ODU	Max.	m	30			

**STANDARD INVERTER (R32)**

**MID STATIC PRESSURE**

- UM 36F / UM42F / UM48F / UM60F



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**UUD3 U30**



**COMPACT INVERTER (R32)**

**LOW STATIC PRESSURE**

- CL18F / CL24F



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**UUA1 ULO**

**UUB1 U20**



COMBINATION				36	42	48	60
Capacity	Cooling	Min. / Rated / Max.	kW	3,8 / 9,5 / 12,5	4,8 / 12,0 / 14,0	5,4 / 13,4 / 15,7	5,8 / 14,6 / 15,8
	Heating	Min. / Rated / Max.	kW	4,3 / 10,8 / 13,4	5,4 / 13,5 / 15,8	6,2 / 15,5 / 17,5	6,7 / 16,8 / 18,1
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,50 / 2,50 / 3,80	0,70 / 3,48 / 4,52	0,90 / 4,32 / 5,62	1,00 / 4,95 / 5,54
	Heating	Min. / Rated / Max.	kW	0,60 / 2,77 / 3,77	0,80 / 3,74 / 4,86	0,90 / 4,31 / 5,26	0,90 / 4,60 / 5,29
Running Current	Cooling	Rated	A	4,0	5,5	6,8	7,7
	Heating	Rated	A	4,5	5,9	6,5	7,2
EER / COP			kWh / kWh	3,80 / 3,90	3,45 / 3,61	3,10 / 3,60	2,95 / 3,65
SEER / SCOP			kWh / kWh	5,8 / 3,9	5,6 / 3,9	5,8 / 4,0	5,6 / 4,0
Pdesign	Cooling @ 35°C		kW	9,5	12	13,4	14,6
	Heating @ -10°C		kW	9,5	9,5	9,5	9,5
Seasonal Energy Label	Cooling / Heating		-	A+ / A	A+ / A	- / -	- / -
Annual Energy Consumption	Cooling / Heating		kWh	573 / 3,410	750 / 3,410	1,386 / 3,325	1,564 / 3,325
Dehumidification Rate			l/h	2,9	4,4	4,8	4,7
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 50	51 / 52	52 / 53	54 / 54
ODU Sound Power Level	Cooling	Rated	dB(A)	66	69	69	71
Piping Connections	Liquid		mm (inch)	Ø9,52 (3/8)	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)	Ø15,88 (5/8)
	Connections Method		-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-20 / 52	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max.	°C	-25 / 18	-25 / 18	-25 / 18	-25 / 18
<b>INDOOR</b>				<b>UM36F N20</b>	<b>UM42F N20</b>	<b>UM48F N30</b>	<b>UM60F N30</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	183 / 134 / 101	266 / 200 / 145	242 / 159 / 124	342 / 287 / 242
Air Flow Rate		H / M / L	m³/min	32 / 28 / 24	38 / 33 / 28	40 / 34 / 28	50 / 45 / 40
Dimensions	Body	W x H x D	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700
Weight	Body		kg	38,5	38,5	43,5	43,5
Sound Pressure Level	Cooling	H / M / L	dB(A)	36 / 34 / 33	38 / 36 / 34	39 / 38 / 36	42 / 40 / 39
Sound Power Level	Cooling	Max.	dB(A)	60	62	65	66
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25,4 / 19,4	Ø25,4 / 19,4	Ø25,4 / 19,4	Ø25,4 / 19,4
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0
<b>OUTDOOR</b>				<b>UUD3 U30</b>			
Power Supply			Ø / V / Hz	3 / 380-415 / 50			
Circuit Breaker		Min.	A	20			
Power Supply Cable (Included Earth)			No x mm³	5C x 2,5			
Dimensions	Net	W x H x D	mm	950 x 1,380 x 330			
Weight	Net		kg	85			
Compressor	Type		-	Inverter Scroll			
	Type		-	R32			
Refrigerant	GWPP (Global Warming Potential)		-	675			
	Precharged Amount		kg	3,0			
	t-CO <sub>2</sub> eq		-	2,025			
	Additional Charge (After 7.5m)		g/m	40			
Fan	Air Flow Rate	Rated	m³/min x No.	55 x 2			
Total Piping Length		Min. / Max.	m	5 / 85			
Piping Elevation	IDU - ODU	Max.	m	30			

COMBINATION				18	24
Capacity	Cooling	Min. / Rated / Max.	kW	1,8 / 4,7 / 5,1	2,7 / 6,8 / 7,5
	Heating	Min. / Rated / Max.	kW	2,1 / 5,2 / 5,7	3,0 / 7,5 / 8,6
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,34 / 1,62 / 1,99	0,40 / 2,12 / 2,54
	Heating	Min. / Rated / Max.	kW	0,30 / 1,53 / 1,99	0,50 / 2,41 / 3,13
Running Current	Cooling	Rated	A	7,2	9,3
	Heating	Rated	A	6,8	10,5
EER / COP			kWh / kWh	2,90 / 3,40	3,21 / 3,11
SEER / SCOP			kWh / kWh	5,1 / 3,8	6,0 / 4,1
Pdesign	Cooling @ 35°C		kW	4,7	6,8
	Heating @ -10°C		kW	2,7	4,2
Seasonal Energy Label	Cooling / Heating		-	A / A	A+ / A+
Annual Energy Consumption	Cooling / Heating		kWh	323 / 995	397 / 1,434
Dehumidification Rate			l/h	1,5	2,4
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	49 / 52	48 / 53
ODU Sound Power Level	Cooling	Rated	dB(A)	65	65
Piping Connections	Liquid		mm (inch)	Ø6,35 (1/4)	Ø9,52 (3/8)
	Gas		mm (inch)	Ø12,7 (1/2)	Ø15,88 (5/8)
	Connections Method		-	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-10 / 50	-10 / 48
	Heating	Min. / Max.	°C	-10 / 18	-15 / 18
<b>INDOOR</b>				<b>CL18F N60</b>	<b>CL24F N30</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	100 / 90 / 80	150 / 130 / 110
Air Flow Rate		H / M / L	m³/min	15 / 12 / 10	20 / 16 / 12
Dimensions	Body	W x H x D	mm	1,100 x 190 x 460	1,100 x 190 x 700
Weight	Body		kg	20,9	26
Sound Pressure Level	Cooling	H / M / L	dB(A)	34 / 31 / 29	39 / 35 / 32
Sound Power Level	Cooling	Max.	dB(A)	56	58
Piping Connections	Drain	O.D. / I.D.	mm	Ø32,0 / 26,0	Ø32,0 / 26,0
<b>OUTDOOR</b>				<b>UUA1 ULO</b>	<b>UUB1 U20</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker		Min.	A	15	20
Power Supply Cable (Included Earth)			No x mm³	3C x 1,5	3C x 2,5
Dimensions	Net	W x H x D	mm	770 x 545 x 288	870 x 650 x 330
Weight	Net		kg	33,3	44,5
Compressor	Type		-	Twin Rotary	
	Type		-	R32	
Refrigerant	GWPP (Global Warming Potential)		-	675	
	Precharged Amount		kg	1,0	
	t-CO <sub>2</sub> eq		-	0,675	
	Additional Charge (After 7.5m)		g/m	20	
Fan	Air Flow Rate	Rated	m³/min x No.	28 x 1	50 x 1
Total Piping Length		Min. / Max.	m	5 / 30	5 / 35
Piping Elevation	IDU - ODU	Max.	m	30	30



**COMPACT INVERTER (R32)**

MID STATIC PRESSURE  
- CM18F / CM24F / UM30F / UM36F



UUA1 ULO    UUB1 U20    UUC1 U40



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COMBINATION				18	24	30	36
Capacity	Cooling	Min. / Rated / Max.	kW	1,8 / 5,0 / 5,6	2,7 / 6,8 / 7,5	3,0 / 7,5 / 8,3	3,8 / 9,5 / 10,5
	Heating	Min. / Rated / Max.	kW	2,2 / 5,5 / 6,7	3,0 / 7,4 / 8,5	3,2 / 8,0 / 8,8	4,3 / 10,8 / 11,5
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,35 / 1,67 / 1,92	0,50 / 2,34 / 2,81	0,50 / 2,57 / 3,08	0,60 / 3,16 / 3,86
	Heating	Min. / Rated / Max.	kW	0,32 / 1,58 / 1,77	0,40 / 2,17 / 2,82	0,50 / 2,25 / 2,93	0,60 / 3,03 / 3,48
Running Current	Cooling	Rated	A	7,4	10,3	11,0	14,0
	Heating	Rated	A	7,0	9,7	9,7	13,4
EER / COP			kWh / kWh	3,00 / 3,50	2,91 / 3,41	2,92 / 3,56	3,01 / 3,57
SEER / SCOP			kWh / kWh	6,1 / 3,8	5,8 / 4,1	5,6 / 3,9	5,9 / 4,0
Pdesign	Cooling @ 35°C		kW	5	6,8	7,5	9,5
	Heating @ -10°C		kW	2,8	4,1	4,3	5,5
Seasonal Energy Label	Cooling / Heating		-	A++ / A	A+ / A+	A+ / A	A+ / A+
Annual Energy Consumption	Cooling / Heating		kWh	287 / 1,032	410 / 1,400	469 / 1,544	564 / 1,924
Dehumidification Rate			l/h	1,2	2,5	2,6	3,2
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	49 / 52	48 / 53	50 / 54	54 / 56
ODU Sound Power Level	Cooling	Rated	dB(A)	65	65	67	70
Piping Connections	Liquid		mm (inch)	Ø6,35 (1/4)	Ø9,52 (3/8)	Ø9,52 (3/8)	Ø9,52 (3/8)
	Gas		mm (inch)	Ø12,7 (1/2)	Ø15,88 (5/8)	Ø15,88 (5/8)	Ø15,88 (5/8)
	Connections Method		-	Flared	Flared	Flared	Flared
	Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-10 / 50	-10 / 48	-10 / 48
	Heating	Min. / Max.	°C	-10 / 18	-15 / 18	-15 / 18	-15 / 18
INDOOR				CM18F N10	CM24F N10	UM30F N10	UM36F N20
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	150 / 130 / 110	180 / 150 / 130	220 / 200 / 180	183 / 134 / 101
Air Flow Rate		H / M / L	m³/min	16,5 / 14,5 / 13	18 / 16,5 / 14,5	22 / 20 / 18	32 / 28 / 24
Dimensions	Body	W x H x D	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	1,250 x 270 x 700
Weight	Body		kg	24,6	24,6	26,2	38,5
Sound Pressure Level	Cooling	H / M / L	dB(A)	34 / 32 / 30	35 / 34 / 32	37 / 35 / 34	36 / 34 / 33
Sound Power Level	Cooling	Max.	dB(A)	59	60	62	60
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25,4 / 19,4	Ø25,4 / 19,4	Ø25,4 / 19,4	Ø25,4 / 19,4
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0	Ø32,0 / 26,0
OUTDOOR				UUA1 ULO	UUB1 U20	UUC1 U40	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker		Min.	A	15	20	25	
Power Supply Cable (Included Earth)			No x mm²	3C x 1,5	3C x 2,5	3C x 2,5	
Dimensions	Net	W x H x D	mm	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330	
Weight	Net		kg	33,3	44,5	57,7	
Compressor	Type		-	Twin Rotary	Twin Rotary	Twin Rotary	
	Type		-	R32	R32	R32	
	GWFP (Global Warming Potential)		-	675	675	675	
Refrigerant	Precharged Amount		kg	1	1,2	1,9	
	t-CO <sub>2</sub> eq		-	0,675	0,81	1,283	
	Additional Charge (After 7,5m)		g/m	20	40	40	
	Fan	Air Flow Rate	Rated	m³/min x No.	28 x 1	50 x 1	58 x 1
Total Piping Length		Min. / Max.	m	5 / 30	5 / 35	5 / 50	
Piping Elevation	IDU - ODU	Max.	m	30	30	30	

**STANDARD INVERTER (R410A)**

HIGH STATIC PRESSURE  
- UB70 / UB85



UU70W    UU85W



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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				4,90	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	dB(A)	43 / 41 / 40	43 / 41 / 40
Sound Power	Cooling	Max.	dB(A)	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.	dB(A)	55	59
	Heating	Nom.	dB(A)	58	60
Sound Power	Cooling	Max.	dB(A)	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
	GWFP		-	2087,5	2087,5
Operation Range (Outdoor)	TCO <sub>2</sub> eq		-	10,9	11,5
	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)

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. (R410A)

# CEILING SUSPENDED



## Differentiated Design

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



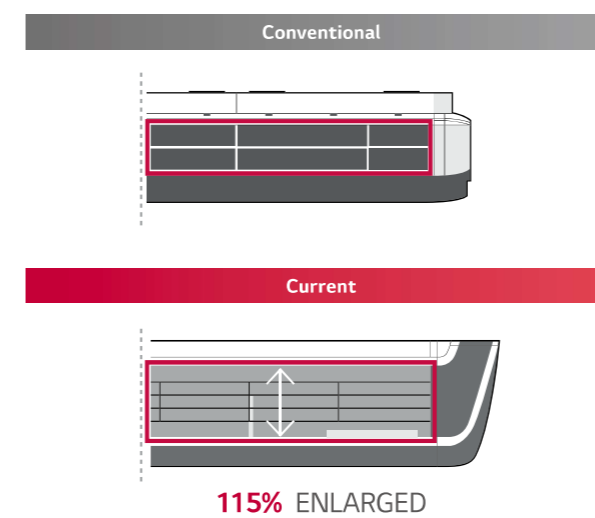
## Powerful Cooling & Heating

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

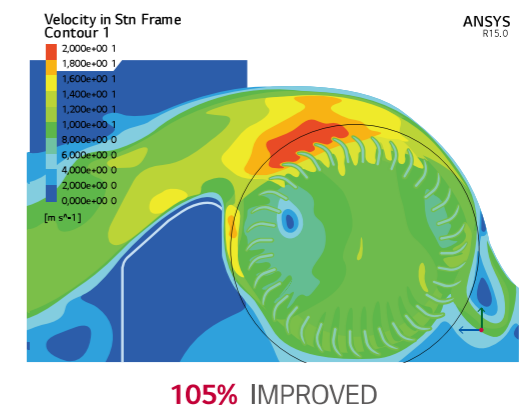


Airflow path and improved heat exchanger's performance.

### Outlet Space

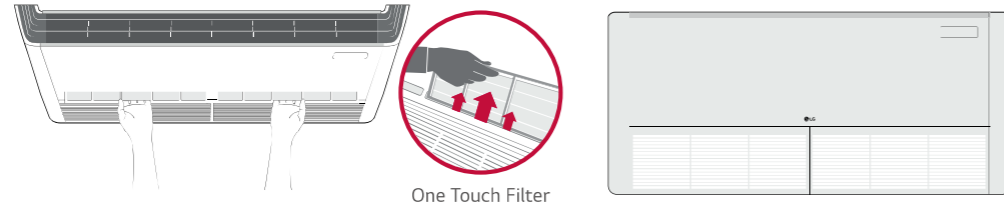


### Optimized the Airflow Path



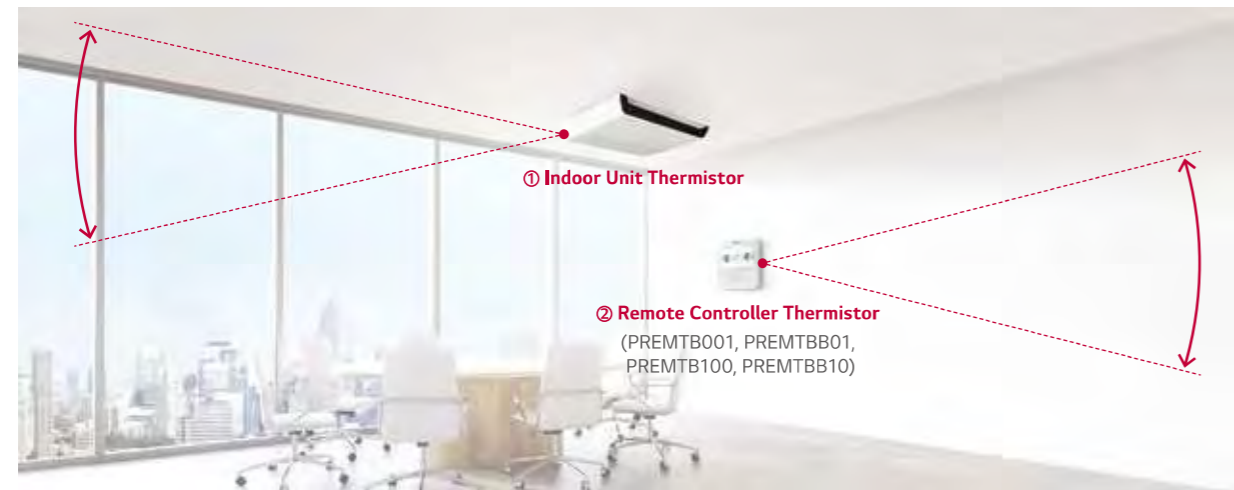
## One Touch & 2 Piece Filter

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



## Two Thermistors Control

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



## Installation

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



## H-INVERTER (R32)

UV18FH / UV24FH / UV30FH

UUB1 U20 UUC1 U40



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COMBINATION				18	24	30
Capacity	Cooling	Min. / Rated / Max.	kW	2.0 / 5.0 / 6.0	2.7 / 6.8 / 8.3	3.2 / 8.0 / 9.5
	Heating	Min. / Rated / Max.	kW	2.3 / 5.8 / 7.0	3.0 / 7.5 / 9.4	3.6 / 8.9 / 10.6
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0.30 / 1.28 / 1.73	0.40 / 1.80 / 2.50	0.50 / 2.35 / 3.13
	Heating	Min. / Rated / Max.	kW	0.30 / 1.56 / 2.13	0.40 / 1.82 / 2.62	0.50 / 2.39 / 3.27
Running Current	Cooling	Rated	A	7.3	8	10.4
	Heating	Rated	A	8	8.1	10.6
EER / COP			kWh / kWh	3.90 / 3.71	3.77 / 4.11	3.41 / 3.72
SEER / SCOP			kWh / kWh	7.6 / 4.4	7.9 / 4.6	7.2 / 4.6
Pdesign	Cooling @ 35°C		kW	5	6.8	8
	Heating @ -10°C		kW	4.3	5.4	5.4
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A++	A++ / A++
Annual Energy Consumption	Cooling / Heating		kWh	230 / 1,368	301 / 1,644	389 / 1,644
Dehumidification Rate			l/h	1.9	2.0	2.8
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	47 / 52	48 / 52	50 / 52
ODU Sound Power Level	Cooling	Rated	dB(A)	63	65	68
Piping Connections	Liquid		mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections Method			-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-15 / 50	-20 / 50	-20 / 50
	Heating	Min. / Max.	°C	-20 / 18	-20 / 18	-20 / 18
<b>INDOOR</b>				<b>UV18FH N10</b>	<b>UV24FH N20</b>	<b>UV30FH N20</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	17 / 15 / 13	35 / 32 / 27	35 / 32 / 27
Air Flow Rate		H / M / L	m³/min	12.5 / 11 / 10	23 / 21 / 19	23 / 21 / 19
Dimensions	Body	W x H x D	mm	1,200 x 235 x 690	1,600 x 235 x 690	1,600 x 235 x 690
	Body		kg	28.7	37.4	37.4
Sound Pressure Level	Cooling	H / M / L	dB (A)	41 / 39 / 38	43 / 42 / 40	43 / 42 / 40
Sound Power Level	Cooling	Max.	dB (A)	55	60	60
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25.0 / 20.5	Ø25.0 / 20.5	Ø25.0 / 20.5
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>				<b>UUB1 U20</b>	<b>UUC1 U40</b>	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker		Min.	A	20	25	
Power Supply Cable (Included Earth)			No x mm³	3C x 2.5	3C x 2.5	
Dimensions	Net	W x H x D	mm	870 x 650 x 330	950 x 834 x 330	
Weight	Net		kg	44.5	57.7	
Compressor	Type		-	Twin Rotary	Twin Rotary	
	Type		-	R32	R32	
Refrigerant	GWP (Global Warming Potential)		-	675	675	
	Precharged Amount		kg	1.2	1.9	
	t-CO <sub>2</sub> eq		-	0.81	1.283	
	Additional Charge (After 7.5m)		g/m	20	40	
Fan	Air Flow Rate	Rated	m³/min x No.	50 x 1	58 x 1	
Total Piping Length		Min. / Max.	m	5 / 30	5 / 50	
Piping Elevation	IDU - ODU	Max.	m	30	30	

Note :

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- 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)

**H-INVERTER (R32)**

UV36FH / UV42FH



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

UUD1 U30



**H-INVERTER (R32)**

UV36FH / UV42FH



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UUD3 U30



COMBINATION				36	42
Capacity	Cooling	Min. / Rated / Max.	kW	3,8 / 9,5 / 12,8	4,8 / 12,1 / 14,5
	Heating	Min. / Rated / Max.	kW	4,3 / 10,8 / 13,7	5,4 / 13,5 / 16,2
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0,5 / 2,50 / 3,75	0,7 / 3,64 / 4,91
	Heating	Min. / Rated / Max.	kW	0,5 / 2,54 / 3,56	0,8 / 3,75 / 4,88
Running Current	Cooling	Rated	A	11,1	16
	Heating	Rated	A	11,4	16,5
EER / COP			kWh / kWh	3,80 / 4,25	3,32 / 3,60
SEER / SCOP			kWh / kWh	6,70 / 4,30	6,60 / 4,30
Pdesign	Cooling @ 35°C		kW	9,5	12,1
	Heating @ -10°C		kW	9,5	9,5
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	- / -
Annual Energy Consumption	Cooling / Heating		kWh	496 / 3,093	1,100 / 3,093
Dehumidification Rate			l/h	3,6	5,52
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 50	51 / 52
		Rated	dB(A)	66	69
ODU Sound Power Level	Cooling		mm (inch)	Ø9,52 (3/8)	Ø9,52 (3/8)
	Gas		mm (inch)	Ø15,88 (5/8)	Ø15,88 (5/8)
Piping Connections				Flared	Flared
	Connections Method				
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-20 / 52	-20 / 52
	Heating	Min. / Max.	°C	-25 / 18	-25 / 18
INDOOR				UV36FH N20	UV42FH N20
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	59 / 40 / 28	59 / 40 / 28
Air Flow Rate		H / M / L	m³/min	30 / 25 / 20	30 / 25 / 20
Dimensions	Body	W x H x D	mm	1,600 x 235 x 690	1,600 x 235 x 690
	Weight		kg	37,4	37,4
Sound Pressure Level	Cooling	H / M / L	dB (A)	48 / 44 / 40	48 / 44 / 40
Sound Power Level	Cooling	Max.	dB (A)	62	62
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25,0 / 20,5	Ø25,0 / 20,5
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32,0 / 26,0	Ø32,0 / 26,0
OUTDOOR				UUD1 U30	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	
Circuit Breaker		Min.	A	40	
Power Supply Cable (Included Earth)			No x mm²	3C x 6,0	
Dimensions	Net	W x H x D	mm	950 x 1,380 x 330	
Weight	Net		kg	85	
Compressor	Type			Inverter Scroll	
	Type			R32	
Refrigerant	GWP (Global Warming Potential)			675	
	Precharged Amount		kg	3,0	
	t-CO <sub>2</sub> eq			2,025	
	Additional Charge (After 7,5m)		g/m	40	
Fan	Air Flow Rate	Rated	m³/min x No.	55 x 2	
Total Piping Length		Min. / Max.	m	5 / 85	
Piping Elevation	IDU - ODU	Max.	m	30	

Note :

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- 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)

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)

**STANDARD INVERTER (R32)**

UV18F / UV24F / UV30F



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UUB1 U20 UUC1 U40



COMBINATION				18	24	30
Capacity	Cooling	Min. / Rated / Max.	kW	2.0 / 5.0 / 5.8	2.7 / 6.7 / 8.0	3.1 / 7.7 / 8.8
	Heating	Min. / Rated / Max.	kW	2.3 / 5.8 / 6.7	3.0 / 7.5 / 9.0	3.4 / 8.6 / 9.6
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0.30 / 1.33 / 1.86	0.40 / 1.99 / 2.69	0.50 / 2.25 / 3.08
	Heating	Min. / Rated / Max.	kW	0.40 / 1.76 / 2.46	0.40 / 2.2 / 3.08	0.50 / 2.5 / 3.20
Running Current	Cooling	Rated	A	7.5	8.8	10.0
	Heating	Rated	A	8.3	9.8	11.1
EER / COP			kWh / kWh	3.75 / 3.29	3.37 / 3.41	3.42 / 3.44
SEER / SCOP			kWh / kWh	6.6 / 4.3	7.2 / 4.2	6.8 / 4.4
Pdesign	Cooling @ 35°C		kW	5	6.7	7.7
	Heating @ -10°C		kW	4.2	4.9	5.4
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	265 / 1,368	326 / 1,633	396 / 1,718
Dehumidification Rate			l/h	1.8	2.7	3.0
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	47 / 52	48 / 52	50 / 52
ODU Sound Power Level	Cooling	Rated	dB(A)	63	65	68
Piping Connections	Liquid		mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections Method			-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-15 / 50	-20 / 50	-20 / 50
	Heating	Min. / Max.	°C	-20 / 18	-20 / 18	-20 / 18
<b>INDOOR</b>				<b>UV18F N10</b>	<b>UV24F N10</b>	<b>UV30F N10</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	17 / 15 / 13	33 / 26 / 19	47 / 40 / 33
Air Flow Rate		H / M / L	m³/min	13 / 12 / 11	16 / 15 / 14	19 / 17.5 / 16
Dimensions	Body	W x H x D	mm	1,200 x 235 x 690	1,200 x 235 x 690	1,200 x 235 x 690
Weight	Body		kg	27.3	28	28
Sound Pressure Level	Cooling	H / M / L	dB (A)	42 / 40 / 39	46 / 45 / 43	46 / 44 / 43
Sound Power Level	Cooling	Max	dB (A)	55	61	62
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25.0 / 20.5	Ø25.0 / 20.5	Ø25.0 / 20.5
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>				<b>UUB1 U20</b>	<b>UUC1 U40</b>	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker		Min	A	20	25	
Power Supply Cable (Included Earth)			No x mm³	3C x 2.5	3C x 2.5	
Dimensions	Net	W x H x D	mm	870 x 650 x 330	950 x 834 x 330	
Weight	Net		kg	44.5	57.7	
Compressor	Type		-	Twin Rotary	Twin Rotary	
	Type		-	R32	R32	
Refrigerant	GWP (Global Warming Potential)		-	675	675	
	Precharged Amount		kg	1.2	1.9	
	t-CO <sub>2</sub> eq		-	0.81	1.283	
	Additional Charge (After 7.5m)		g/m	20	40	
Fan	Air Flow Rate	Rated	m³/min x No.	50 x 1	58 x 1	
Total Piping Length		Min. / Max.	m	5 / 30	5 / 50	
Piping Elevation	IDU - ODU	Max	m	30	30	

Note :

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

**STANDARD INVERTER (R32)**

UV36F / UV42F / UV48F / UV60F



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

UUD1 U30



COMBINATION				36	42	48	60
Capacity	Cooling	Min. / Rated / Max.	kW	3.8 / 9.5 / 12.5	4.8 / 12.1 / 14.2	5.4 / 13.4 / 15.7	5.8 / 14.4 / 15.6
	Heating	Min. / Rated / Max.	kW	4.3 / 10.8 / 13.4	5.4 / 13.5 / 15.8	6.2 / 15.5 / 17.5	6.7 / 16.8 / 18.1
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0.50 / 2.65 / 4.03	0.80 / 3.90 / 5.07	0.90 / 4.50 / 5.85	1.10 / 5.33 / 5.97
	Heating	Min. / Rated / Max.	kW	0.50 / 2.60 / 3.54	0.80 / 3.75 / 4.88	0.90 / 4.77 / 5.82	1.10 / 5.60 / 6.44
Running Current	Cooling	Rated	A	11.7	17.0	19.7	23.6
	Heating	Rated	A	11.4	16.5	20.6	24.6
EER / COP			kWh / kWh	3.59 / 4.15	3.10 / 3.60	2.98 / 3.25	2.70 / 3.00
SEER / SCOP			kWh / kWh	6.3 / 4.1	6.3 / 4.1	5.9 / 4.1	5.7 / 4.1
Pdesign	Cooling @ 35°C		kW	9.5	12.1	13.4	14.4
	Heating @ -10°C		kW	9.5	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	- / -	- / -	- / -
Annual Energy Consumption	Cooling / Heating		kWh	528 / 3,244	1,152 / 3,244	1,363 / 3,244	1,516 / 3,244
Dehumidification Rate			l/h	3.6	5.5	6.3	7.1
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 50	51 / 52	52 / 53	54 / 54
ODU Sound Power Level	Cooling	Rated	dB(A)	66	69	69	71
Piping Connections	Liquid		mm (inch)	Ø9.52 (3/8)	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)	Ø15.88 (5/8)
Connections Method			-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-20 / 52	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max.	°C	-25 / 18	-25 / 18	-25 / 18	-25 / 18
<b>INDOOR</b>				<b>UV36F N20</b>	<b>UV42F N20</b>	<b>UV48F N20</b>	<b>UV60F N20</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	50 / 35 / 28	50 / 35 / 28	59 / 40 / 28	59 / 40 / 28
Air Flow Rate		H / M / L	m³/min	28 / 24 / 20	28 / 24 / 20	30 / 25 / 20	30 / 25 / 20
Dimensions	Body	W x H x D	mm	1,600 x 235 x 690	1,600 x 235 x 690	1,600 x 235 x 690	1,600 x 235 x 690
Weight	Body		kg	36.7	36.7	36.7	36.7
Sound Pressure Level	Cooling	H / M / L	dB (A)	46 / 43 / 40	46 / 43 / 40	48 / 44 / 40	48 / 44 / 40
Sound Power Level	Cooling	Max	dB (A)	62	62	63	63
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25.0 / 20.5	Ø25.0 / 20.5	Ø25.0 / 20.5	Ø25.0 / 20.5
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>				<b>UUD1 U30</b>			
Power Supply			Ø / V / Hz	1 / 220-240 / 50			
Circuit Breaker		Min	A	40			
Power Supply Cable (Included Earth)			No x mm³	3C x 6.0			
Dimensions	Net	W x H x D	mm	950 x 1,380 x 330			
Weight	Net		kg	85			
Compressor	Type		-	Inverter Scroll			
	Type		-	R32			
Refrigerant	GWP (Global Warming Potential)		-	675			
	Precharged Amount		kg	3.0			
	t-CO <sub>2</sub> eq		-	2.025			
	Additional Charge (After 7.5m)		g/m	40			
Fan	Air Flow Rate	Rated	m³/min x No.	55 x 2			
Total Piping Length		Min. / Max.	m	5 / 85			
Piping Elevation	IDU - ODU	Max	m	30			

Note :

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

STANDARD INVERTER (R32)

UV36F / UV42F / UV48F / UV60F



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UUD3 U30



COMBINATION				36	42	48	60
Capacity	Cooling	Min. / Rated / Max.	kW	3.8 / 9.5 / 12.5	4.8 / 12.1 / 14.2	5.4 / 13.4 / 15.7	5.8 / 14.4 / 15.6
	Heating	Min. / Rated / Max.	kW	4.3 / 10.8 / 13.4	5.4 / 13.5 / 15.8	6.2 / 15.5 / 17.5	6.7 / 16.8 / 18.1
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0.50 / 2.65 / 4.03	0.80 / 3.90 / 5.07	0.90 / 4.50 / 5.85	1.10 / 5.33 / 5.97
	Heating	Min. / Rated / Max.	kW	0.50 / 2.60 / 3.54	0.80 / 3.75 / 4.88	0.90 / 4.77 / 5.82	1.10 / 5.60 / 6.44
Running Current	Cooling	Rated	A	4.2	6.1	7.0	8.2
	Heating	Rated	A	4.1	5.9	7.3	8.5
EER / COP			kWh / kWh	3.59 / 4.15	3.10 / 3.60	2.98 / 3.25	2.70 / 3.00
SEER / SCOP			kWh / kWh	6.3 / 4.1	6.3 / 4.1	5.9 / 4.1	5.7 / 4.1
Pdesign	Cooling @ 35°C		kW	9.5	12.1	13.4	14.4
	Heating @ -10°C		kW	9.5	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	- / -	- / -	- / -
Annual Energy Consumption	Cooling / Heating		kWh	528 / 3,244	1,152 / 3,244	1,363 / 3,244	1,516 / 3,244
Dehumidification Rate			l/h	3.6	5.5	6.3	7.1
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 50	51 / 52	52 / 53	54 / 54
ODU Sound Power Level	Cooling	Rated	dB(A)	66	69	69	71
Piping Connections	Liquid		mm (inch)	Ø9.52 (3/8)	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)	Ø15.88 (5/8)
	Connections Method		-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-20 / 52	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max.	°C	-25 / 18	-25 / 18	-25 / 18	-25 / 18
<b>INDOOR</b>				<b>UV36F N20</b>	<b>UV42F N20</b>	<b>UV48F N20</b>	<b>UV60F N20</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	50 / 35 / 28	50 / 35 / 28	59 / 40 / 28	59 / 40 / 28
Air Flow Rate		H / M / L	m³/min	28 / 24 / 20	28 / 24 / 20	30 / 25 / 20	30 / 25 / 20
Dimensions	Body	W x H x D	mm	1,600 x 235 x 690	1,600 x 235 x 690	1,600 x 235 x 690	1,600 x 235 x 690
Weight	Body		kg	36.7	36.7	36.7	36.7
Sound Pressure Level	Cooling	H / M / L	dB (A)	46 / 43 / 40	46 / 43 / 40	48 / 44 / 40	48 / 44 / 40
Sound Power Level	Cooling	Max.	dB (A)	62	62	63	63
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25.0 / 20.5	Ø25.0 / 20.5	Ø25.0 / 20.5	Ø25.0 / 20.5
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>				<b>UUD3 U30</b>			
Power Supply			Ø / V / Hz	3 / 380-415 / 50			
Circuit Breaker		Min.	A	20			
Power Supply Cable (Included Earth)			No x mm²	5C x 2.5			
Dimensions	Net	W x H x D	mm	950 x 1,380 x 330			
Weight	Net		kg	85			
Compressor	Type		-	Inverter Scroll			
	Type		-	R32			
Refrigerant	GWP (Global Warming Potential)		-	675			
	Precharged Amount		kg	3.0			
	t-CO <sub>2</sub> eq		-	2.025			
	Additional Charge (After 7.5m)		g/m	40			
Fan	Air Flow Rate	Rated	m³/min x No.	55 x 2			
Total Piping Length		Min. / Max.	m	5 / 85			
Piping Elevation	IDU - ODU	Max.	m	30			

Note :

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

COMPACT INVERTER (R32)

UV18F / UV24F / UV30F / UV36F



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UUA1 ULO

UUB1 U20

UUC1 U40



COMBINATION				18	24	30	36
Capacity	Cooling	Min. / Rated / Max.	kW	1.8 / 5.0 / 5.5	2.7 / 6.8 / 7.5	3.0 / 7.5 / 8.3	3.8 / 9.5 / 10.5
	Heating	Min. / Rated / Max.	kW	2.2 / 5.3 / 5.8	2.9 / 7.3 / 8.4	3.2 / 8.0 / 8.8	4.1 / 10.3 / 11.5
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0.32 / 1.62 / 1.93	0.40 / 2.06 / 2.47	0.50 / 2.42 / 2.90	0.70 / 3.28 / 3.87
	Heating	Min. / Rated / Max.	kW	0.30 / 1.44 / 1.86	0.40 / 2.23 / 2.90	0.50 / 2.48 / 3.22	0.60 / 2.78 / 3.45
Running Current	Cooling	Rated	A	7.2	9.0	10.6	14.6
	Heating	Rated	A	6.4	9.7	10.8	12.3
EER / COP			kWh / kWh	3.10 / 3.70	3.30 / 3.28	3.10 / 3.23	2.90 / 3.70
SEER / SCOP			kWh / kWh	6.6 / 4.6	6.6 / 4.2	6.6 / 4.3	6.1 / 4.2
Pdesign	Cooling @ 35°C		kW	5	6.8	7.5	9.5
	Heating @ -10°C		kW	2.9	4.3	4.4	5.5
Seasonal Energy Label	Cooling / Heating		-	A++ / A++	A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	265 / 883	361 / 1,433	398 / 1,433	545 / 1,833
Dehumidification Rate			l/h	1.7	2.4	2.8	3.6
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	49 / 52	48 / 53	50 / 54	54 / 56
ODU Sound Power Level	Cooling	Rated	dB(A)	65	65	67	70
Piping Connections	Liquid		mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method		-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-10 / 50	-10 / 48	-10 / 48	-20 / 50
	Heating	Min. / Max.	°C	-10 / 18	-15 / 18	-15 / 18	-15 / 18
<b>INDOOR</b>				<b>UV18F N10</b>	<b>UV24F N10</b>	<b>UV30F N10</b>	<b>UV36F N20</b>
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	17 / 15 / 13	33 / 26 / 19	47 / 40 / 33	50 / 35 / 28
Air Flow Rate		H / M / L	m³/min	13 / 12 / 11	16 / 15 / 14	19 / 17.5 / 16	28 / 24 / 20
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	1,600 x 235 x 690
Weight	Body		kg	27.3	28	28	36.7
Sound Pressure Level	Cooling	H / M / L	dB (A)	42 / 40 / 39	46 / 45 / 43	46 / 44 / 43	46 / 43 / 40
Sound Power Level	Cooling	Max.	dB (A)	55	61	62	62
Piping Connections	Drain (Natural Drainage)	O.D. / I.D.	mm	Ø25.0 / 20.5	Ø25.0 / 20.5	Ø25.0 / 20.5	Ø25.0 / 20.5
	Drain (Using Drain Pump)	O.D. / I.D.	mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>				<b>UUA1 ULO</b>	<b>UUB1 U20</b>	<b>UUC1 U40</b>	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker		Min.	A	15	20	25	
Power Supply Cable (Included Earth)			No x mm²	3C x 1.5	3C x 2.5	3C x 2.5	
Dimensions	Net	W x H x D	mm	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330	
Weight	Net		kg	33.3	44.5	57.7	
Compressor	Type		-	Twin Rotary			
	Type		-	R32			
Refrigerant	GWP (Global Warming Potential)		-	675			
	Precharged Amount		kg	1.0			
	t-CO <sub>2</sub> eq		-	0.675			
	Additional Charge (After 7.5m)		g/m	20			
Fan	Air Flow Rate	Rated	m³/min x No.	28 x 1			
Total Piping Length		Min. / Max.	m	5 / 30			
Piping Elevation	IDU - ODU	Max.	m	30			

Note :

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

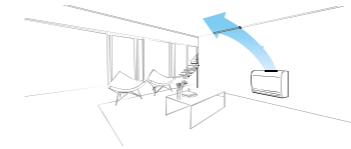
# CONSOLE



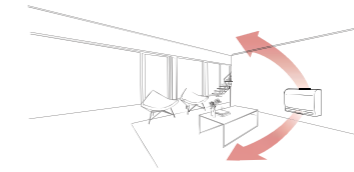
## Optimized Air Flow for Cooling & Heating

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

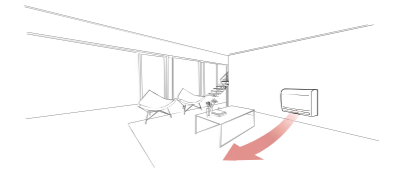
### Cooling



### Heating (Normal)



### Heating (Floor Heating Mode)



## Quick Floor Heating

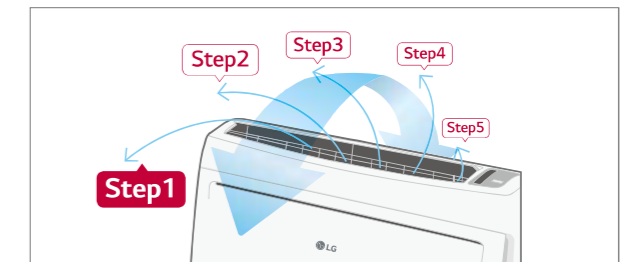
Console air conditioners portray high speed and powerful performance. Using the floor heating mode, console air conditioners provide floor heating at a faster pace in order to reach desired temperature more quickly.

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

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

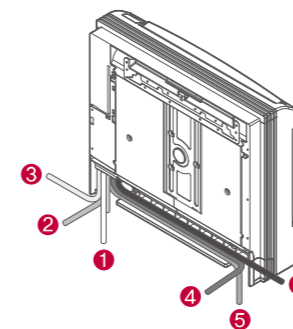
## 5-Step Vane Control

There are 5 different stages to control air flow direction.

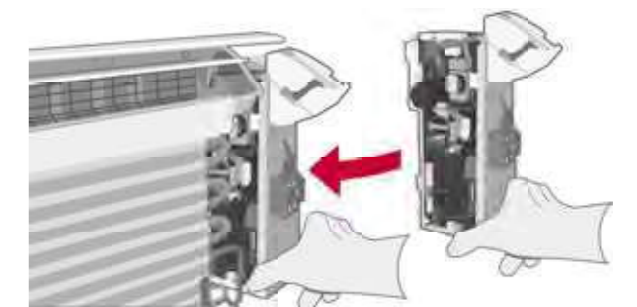


## Easy Installation and Service

### 6 Different Ways to Install Piping



### Easy Slide-type PCB



**STANDARD INVERTER (R32)**

UQ09F / UQ12F / UQ18F



UUA1 ULO    UUB1 U20



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

COMBINATION				9	12	18
Capacity	Cooling	Min. / Rated / Max.	kW	1.5 / 2.6 / 3.4	1.5 / 3.5 / 4.0	2.0 / 5.0 / 5.8
	Heating	Min. / Rated / Max.	kW	1.6 / 3.1 / 3.9	1.6 / 4.0 / 4.3	2.0 / 4.9 / 5.4
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0.30 / 0.65 / 0.91	0.30 / 1.00 / 1.46	0.40 / 1.75 / 2.45
	Heating	Min. / Rated / Max.	kW	0.30 / 0.74 / 1.08	0.30 / 1.05 / 1.58	0.30 / 1.56 / 2.11
Running Current	Cooling	Rated	A	2.9	4.4	8.3
	Heating	Rated	A	3.3	4.7	8.0
EER / COP			kWh / kWh	4.00 / 4.20	3.50 / 3.80	2.85 / 3.14
SEER / SCOP			kWh / kWh	6.5 / 4.0	6.4 / 4.0	5.8 / 3.8
Pdesign	Cooling @ 35°C		kW	2.6	3.5	5
	Heating @ -10°C		kW	2.8	3	3.8
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A+	A+ / A
Annual Energy Consumption	Cooling / Heating		kWh	140 / 980	191 / 1,050	302 / 1,396
Dehumidification Rate			l/h	0.7	1.3	2.4
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	49 / 52	49 / 52	47 / 52
ODU Sound Power Level	Cooling	Rated	dB(A)	65	65	63
Piping Connections	Liquid		mm (inch)	Ø6,35 (1/4)	Ø6,35 (1/4)	Ø6,35 (1/4)
	Gas		mm (inch)	Ø9,52 (3/8)	Ø9,52 (3/8)	Ø12,7 (1/2)
	Connections Method		-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-15 / 50	-15 / 50	-15 / 50
	Heating	Min. / Max.	°C	-20 / 18	-20 / 18	-20 / 18
INDOOR				UQ09F NAO	UQ12F NAO	UQ18F NAO
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	37 / 30 / 25	37 / 30 / 25	44 / 39 / 35
Air Flow Rate		H / M / L	m³/min	8.5 / 6.7 / 5.0	8.5 / 6.7 / 5.0	10.1 / 8.6 / 7.2
Dimensions	Body	W x H x D	mm	700 x 600 x 210	700 x 600 x 210	700 x 600 x 210
Weight	Body		kg	16.3	16.3	16.3
Sound Pressure Level	Cooling	H / M / L	dB(A)	38 / 32 / 27	38 / 32 / 27	44 / 39 / 35
Sound Power Level	Cooling	Max.	dB(A)	59	59	60
Piping Connections	Drain	O.D. / I.D.	mm	Ø16.7 / 12.2	Ø16.7 / 12.2	Ø16.7 / 12.2
OUTDOOR				UUA1 ULO	UUB1 U20	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker		Min.	A	15	20	
Power Supply Cable (Included Earth)			No x mm³	3C x 1.5	3C x 2.5	
Dimensions	Net	W x H x D	mm	770 x 545 x 288	870 x 650 x 330	
Weight	Net		kg	33.3	44.5	
Compressor	Type		-	Twin Rotary	Twin Rotary	
	Type		-	R32	R32	
	Refrigerant	GWPP (Global Warming Potential)	-	675	675	
	Precharged Amount		kg	1.0	1.2	
	t-CO <sub>2</sub> eq		-	0.675	0.81	
	Additional Charge (After 7.5m)		g/m	20	20	
Fan	Air Flow Rate	Rated	m³/min x No.	28 x 1	50 x 1	
Total Piping Length		Min. / Max.	m	5 / 30	5 / 30	
Piping Elevation	IDU - ODU	Max.	m	30	30	

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)

# FLOOR STANDING





## Stylish Design

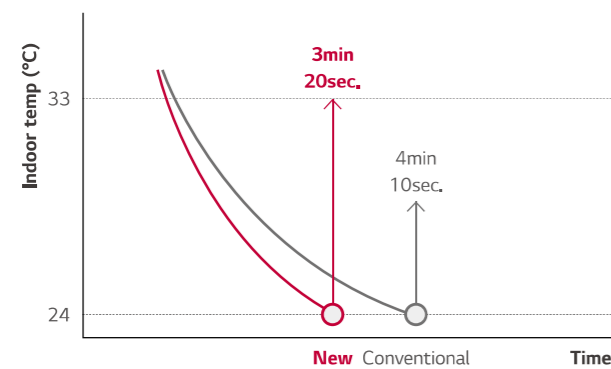
The new LG floor standing air conditioner which is Red Dot design award winner 2013, is ideal for modern interiors in your home or office.



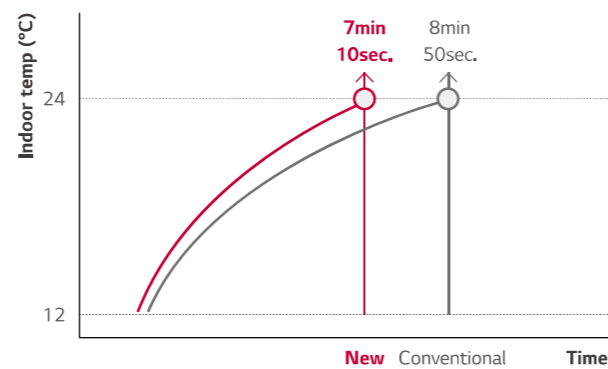
## Quick Response

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

### Cooling



### Heating



## Powerful Air Flow

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



## STANDARD INVERTER (R410A)

### UP48



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### UU48W U32 UU49W U32



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.	16,0	
	Cooling	Nom.	kW	4,2	
Power Input (Set)	Heating	Nom.	kW	4,5	
		Nom.	W	200	
Power Input (Indoor)	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	-	
	Liquid		mm (inch)	Ø9,52 (3/8)	
Piping Connection	Gas		mm (inch)	Ø15,88 (5/8)	
	Drain	O.D. / I.D.	mm	32 / 25	
Air Flow Rate		High / Medium / Low	m³/min	31 / 27 / 23	
Sound Pressure	Cooling	High / Medium / Low	dB(A)	52 / 49 / 45	
	Heating	Max.	dB(A)	65	
Sound Power	Cooling	Max.	dB(A)	65	
Dehumidification Rate			l/h	5,0	
Dimensions	Body	W x H x D	mm	590 x 1,840 x 460	
Net Weight	Body		kg	50,0	
OUTDOOR				UU48W U32	UU49W U32
Compressor	Type			Twin Rotary	Twin Rotary
Airflow Rate		Nom	m³/min	110	110
Sound Pressure	Cooling	Nom	dB(A)	52	52
	Heating	Nom	dB(A)	54	54
Sound Power	Cooling	Max	dB(A)	72	68
Dimensions	W x H x D		mm	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	92,0	96,0
Refrigerant	Type			R410A	R410A
	Charge		g	3,400	3,400
	Additional Charge		g/m	40	40
	GWP			2087,5	2087,5
	TCO <sub>2</sub> eq			7,1	7,1
Operation Range (Outdoor)	Cooling	Min. / Max.	°C DB	-15 / 48	-15 / 48
	Heating	Min. / Max.	°C WB	-18 / 18	-18 / 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm²	3C x 5,0	5C x 5,0
Transmission Cable			No. x mm²	4C x 0,75	4C x 0,75
Circuit Breaker			A	40	20
Piping Length Total		Min. / Max.	m	5 / 75	5 / 75
Piping Elevation Difference	IDU - ODU	Max.	m	30	30
Piping Connection	Liquid		mm (inch)	Ø9,52 (3/8)	Ø9,52 (3/8)
	Gas		mm (inch)	Ø15,88 (5/8)	Ø15,88 (5/8)

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. (R410A)

# WALL MOUNTED



## Saving Operation Cost

### High Energy Efficiency

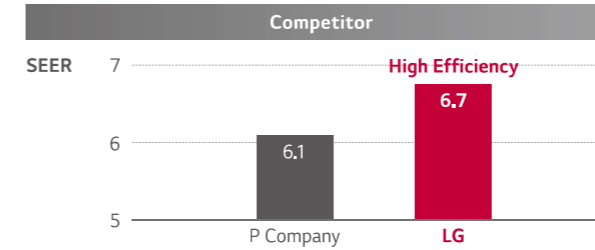


The advanced technologies of LG achieve lower energy consumption, especially in cooling as can be seen from the SEER class given according to ErP Regulations.

Server room need to be operated continuously.

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

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



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

Indoor unit : 7.1kW Wall mounted unit

※ Performances are based on the following conditions :

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

### LG Server Room Solution

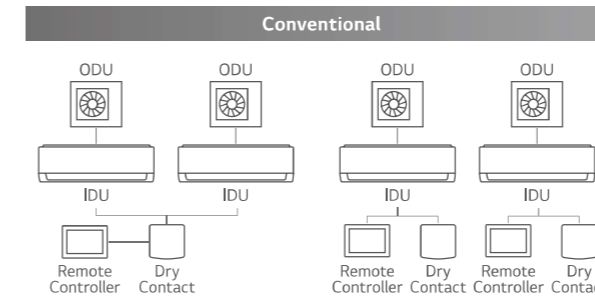
SEER class (ErP regulation)						
	2.5kW	3.4kW	5.0kW	6.8kW	8.0kW	9.5kW
SEER	7.0 (A++)	6.6 (A++)	6.8 (A++)	6.7 (A++)	7.0 (A++)	6.1 (A++)
SCOP					4.3 (A+)	3.85 (A+)

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.



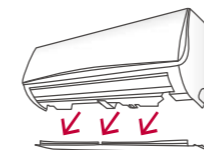
- **Higher product cost**  
Conventional system needs dry contact and 3<sup>rd</sup> party control individual remote controller(s).
- **Higher installation cost**  
Need less labor and time for design, installation, cabling and test.
- **Design & Installation difficulties**  
It is difficult to make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



- **Lower product cost**  
Only LG remote controller needed for max.4 ODUs and IDUs.
  - **Lower installation cost**  
Need less labor and time for design, installation, cabling and test.
  - **Easy Design & Installation**  
It provides easy design and installation because it has simple system with LG controller even in case of more number of ODUs and IDUs(Max.4).
- ※ MJ09PC, MJ12PC, MJ18PC, MJ24PC combinations are only available

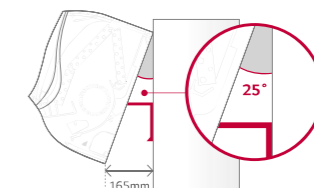
### Detachable Bottom Cover

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



### Installation Support Clip

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



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

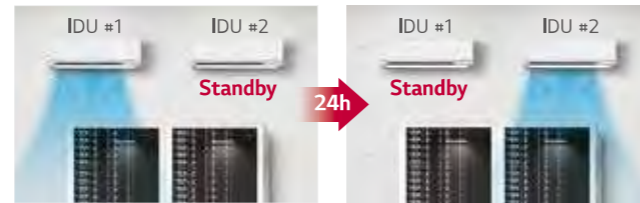
- Stable operation due to indoor units take turns
- Less breakdown and keeping server room operation
- Increase air conditioner's life expectancy
- Rotation interval can be set from 1h to 999h freely.

### Operation Scenario

When the number of the indoor units : 2

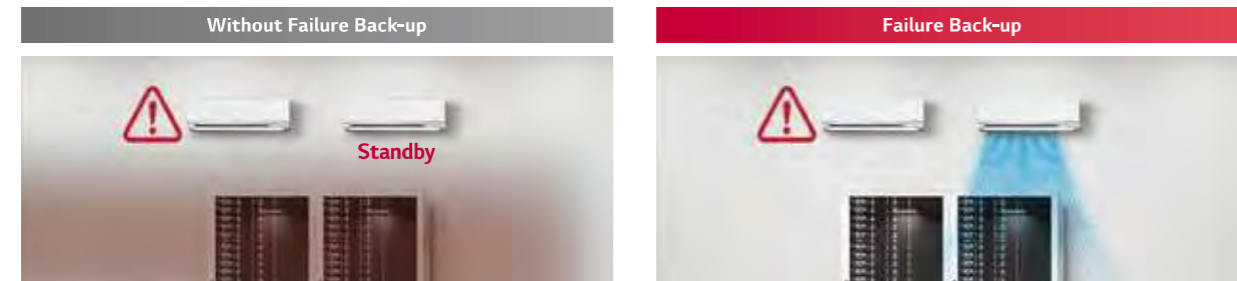
If the interval time is set 24h(default),

- 1 While IDU #1 operates during interval time, IDU #2 is on standby.
- 2 IDU #2 operates next 24 hours, and IDU #1 is on standby.



## 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

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



## Capacity Back-up

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



### Server can be Overheated

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

### Stable & Safe Operation

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

### 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,

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

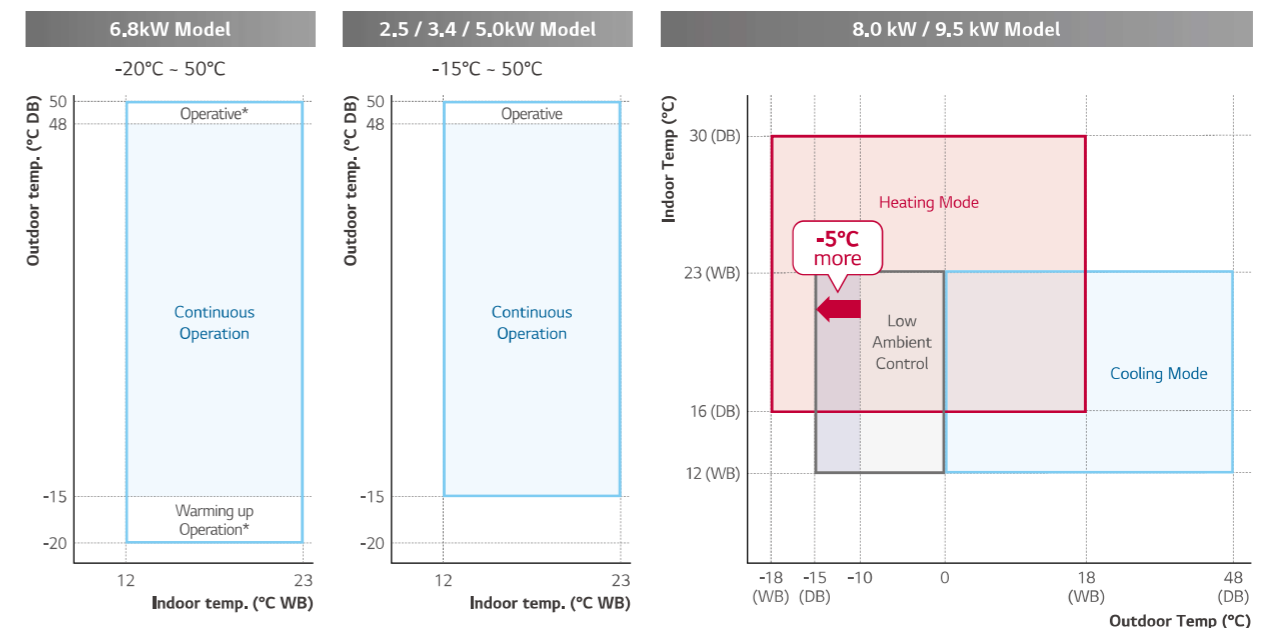


If cooling set temperature is 22°C and the set temperature difference is 4°C, when current temperature goes above 26°C, the standby unit starts operation. If current temperature drops and remains below 26°C for some time, the backup unit stops.

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

## Wide Operational Range

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



\* 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



UUA1 ULO



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

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	Body	W x H x D	mm	818 x 316 x 189	818 x 316 x 189
	Weight		kg (lbs)	8.2 (18.1)	8.2 (18.1)
Sound Pressure Level	Cooling	H / M / L	dB(A)	36 / 32 / 27	38 / 34 / 29
	Sound Power Level	Cooling	Max.	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	mm	770 x 545 x 288	
Weight	Net		kg	33.3	
Compressor	Type		-	Twin Rotary	
	Type		-	R32	
Refrigerant	GWP (Global Warming Potential)		-	675	
	Precharged Amount		kg	1.0	
	t-CO <sub>2</sub> eq.		-	0.675	
	Control		-	EEV	
	Additional Charging Volume		g/m	20	
Air Flow Rate	Rated		m³/min x No.	28 x 1	
Total Piping Length	Min. / Max.		m	5.0 / 30.0	
Piping Elevation	IDU-ODU	Max.	m	30	

**STANDARD INVERTER (R32)**

MJ18PC / MJ24PC



UUB1 U20

UUC1 U40



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

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	975 x 354 x 209
	Weight		kg (lbs)	10.9 (24.0)	11.5 (25.4)
Sound Pressure Level	Cooling	H / M / L	dB(A)	44 / 38 / 34	46 / 41 / 36
	Sound Power Level	Cooling	Max.	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	950 x 834 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 <sub>2</sub> 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	30	

STANDARD INVERTER (R32)

US30F / US36F



UUC1 U40 UUD1 U30 UUD3 U30



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

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				A++ / A+	A++ / A	A++ / A
Annual Energy Consumption			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	47 / 42 / 36	65 / 47 / 42	65 / 47 / 42
Air Flow Rate			H / M / L	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	20
Power Supply Cable (Included Earth)			No x mm <sup>3</sup>	3C x 2,5	3C x 6,0	5C x 2,5
Dimensions	Net	W x H x D	mm	950 x 834 x 330	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 <sub>2</sub> eq		-	1,283	2,025	2,025
	Additional Charge (After 7,5m)		g/m	40	40	40
Fan	Air Flow Rate	Rated	m <sup>3</sup> /min x No.	58 x 1	55 x 2	55 x 2
Total Piping Length			Min. / Max.	m	5 / 50	5 / 85
Piping Elevation			IDU - ODU	Max.	m	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				A++ / A+	A++ / A+
Annual Energy Consumption			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	47 / 42 / 36	65 / 47 / 42
Air Flow Rate			H / M / L	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
Power Supply Cable (Included Earth)			No x mm <sup>3</sup>	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 <sub>2</sub> eq		-	0,81	1,283
	Additional Charge (After 7,5m)		g/m	40	40
Fan	Air Flow Rate	Rated	m <sup>3</sup> /min x No.	50 x 1	58 x 1
Total Piping Length			Min. / Max.	m	5 / 35
Piping Elevation			IDU - ODU	Max.	m

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)

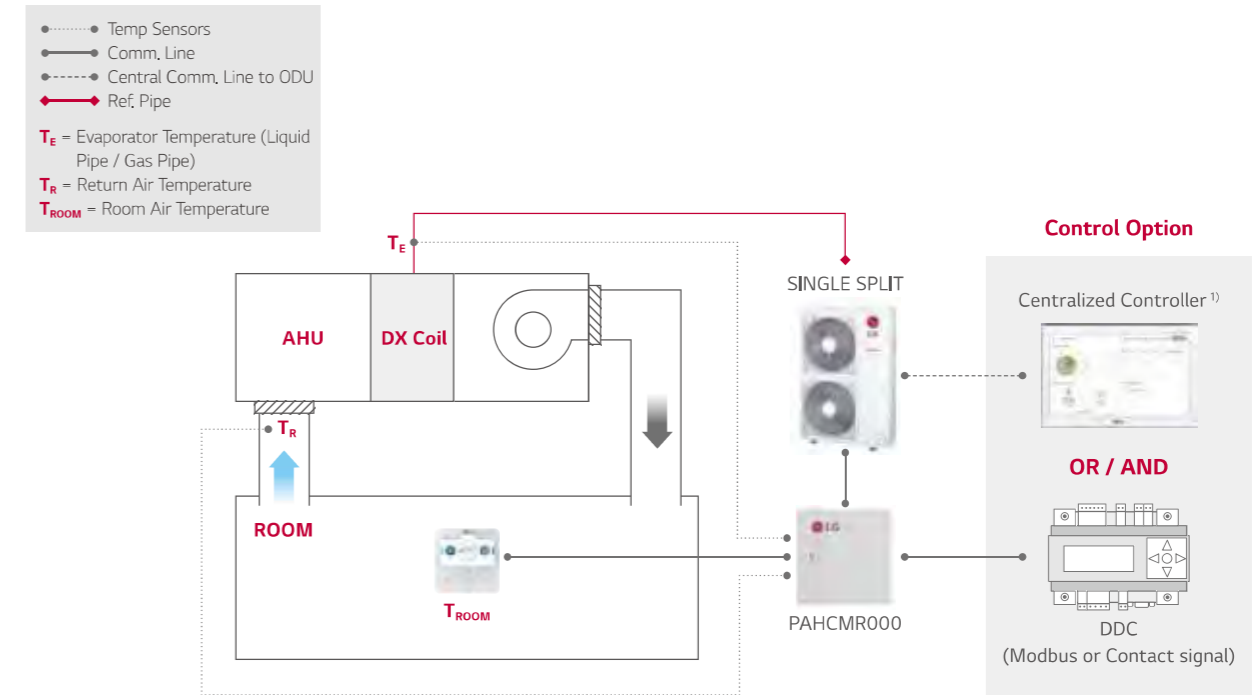
# AHU SOLUTION



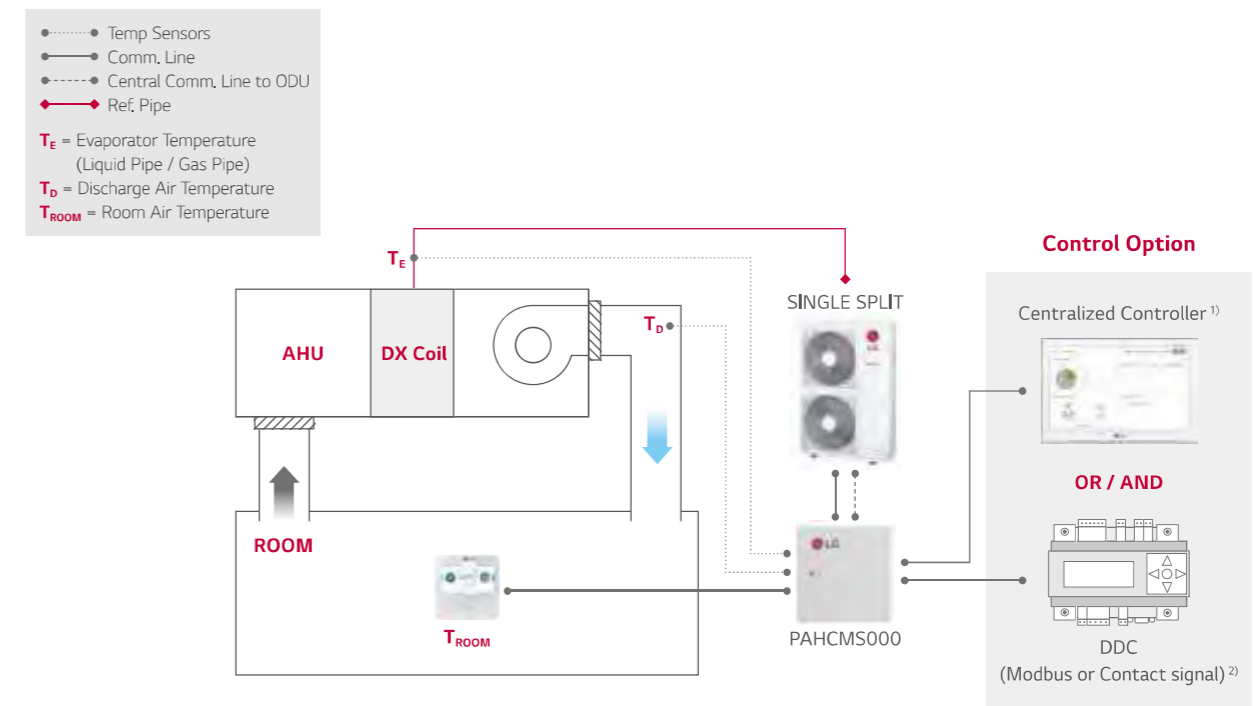
## Air Handling Applications

Economically feasible solution for pair application with air handling units.

### Return/Room Air Temperature Control



### Discharge Air Temperature Control



1) PI485(PMNF14A1) is required for using centralized controller.

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

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

## Communication Kit



PAHCMR000 / PAHCMS000

### Specification

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

### Function list for Communication kit

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

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

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

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

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

### Combination Table

Model Name		R32				R410A	
		UUA1 U10	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



# UVnano™ Filter Box

UVnano Filter Box can effectively create a safe indoor environment by trapping and removing various harmful substances such as fine dust, bacteria and viruses in the form of droplets.



UVnano Filter Box Kit (Included ePM1 Filter)  
**PBM13M3UA0 / PBM13M2UA0 / PBM13M1UA0**

ePM1 Filter  
**FBM13M3UA0 / FBM13M2UA0 / FBM13M1UA0**

PLATFORM	UNIT	M3 PLATFORM PBM13M3UA0	M2 PLATFORM PBM13M2UA0	M1 PLATFORM PBM13M1UA0	
Duct UVnano Filter Box	-				
Net Size (W x H x D)	mm	1,250 x 360 x 280	1,250 x 270 x 280	900 x 270 x 280	
Shipping Size (W x H x D)	mm	1,440 x 430 x 377	1,440 x 340 x 377	1,048 x 340 x 377	
Net Weight	kg	12,7	11,6	9,1	
Pre-Filter (1)	Size (W x H x D)	mm	596 x 377 x 4	596 x 247 x 4	596 x 247 x 4
	Mesh	-	34 x 39	34 x 39	34 x 39
	Color	-	Black	Black	Black
	Quantity	EA	2	2	1
Pre-Filter (2)	Size (W x H x D)	mm	-	-	247 x 247 x 4
	Mesh	-	-	-	34 x 39
	Color	-	-	-	Black
	Quantity	EA	-	-	1
UVnano	UVC Wavelength	nm	275	275	275
	UVC LED Quantity	EA	8	8	8
	Model Name		<b>FBM13M3UA0</b>	<b>FBM13M2UA0</b>	<b>FBM13M1UA0</b>
Filter (1)	Size (W x H x D)	mm	600 x 341 x 50,8	600 x 251 x 50,8	600 x 251 x 50,8
	Quantity	EA	2	2	1
	Grade	-	*ePM <sub>1</sub> , 65%	ePM <sub>1</sub> , 65%	ePM <sub>1</sub> , 65%
Filter (2)	Size (W x H x D)	mm	-	-	250 x 251 x 50,8
	Quantity	EA	-	-	1
	Grade	-	-	-	ePM <sub>1</sub> , 65%

\* Grade : ISO 16890

# LG Wi-Fi Modem

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



**PWFMD200**

## Features

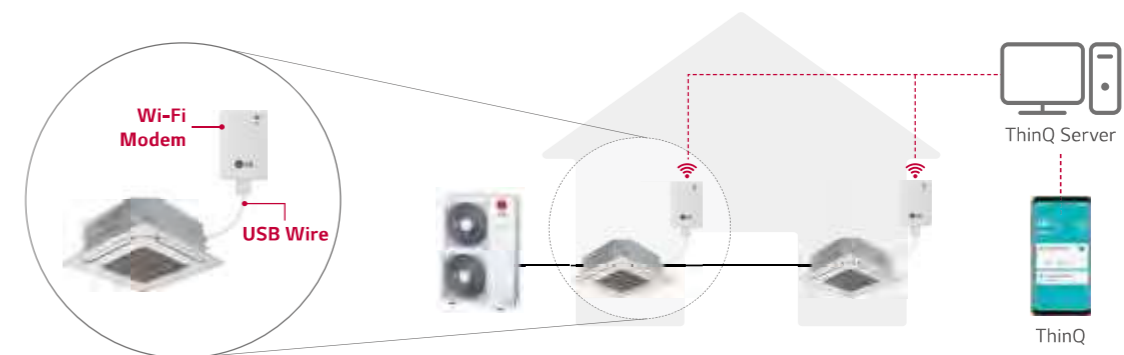
- User can enjoy anytime, anywhere access with Wi-Fi equipped device through ThinQ mobile app.
- This allows the user to access the unit remotely to switch unit on or off before or after leaving the vicinity.
- LG's exclusive Home Appliances control app (ThinQ) is available.
- Simple operation for various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

Model Name	PWFMD200
Size (W x H x D, mm)	48 x 68 x 14
Interfaceable Products	System Air Conditioner <sup>3)</sup>
Connection Type	Indoor unit 1:1
Communication Frequency	2,4 GHz
Wireless Standards	IEEE 802.11b/g/n
Mobile Application	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 "ThinQ" on Google market or Appstore then download the app.
- ※ Internet service with Wi-Fi connection has to be available.
- ※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.



### Standard Wired Remote Controller

For more LG Air Conditioner information, please visit our Youtube channel through QR code.



**Standard III**  
PREMTB100      **Standard III**  
PREMTBB10



**Standard II**  
PREMTB001      **Standard II**  
PREMTBB01

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

※ Refer to each model PDB for applicable models.

### Remote Controller

### PI 485



PWLSSB21H



PMNFP14A1

Power : Single phase AC 220V 50/60Hz  
Max. no. of the indoor units that can be connected : 64 UNITS  
Model applied : RAC / Multi / Single / Therma V

※ Refer to each product PDB for applicable models.

### Dry Contact



PDRYCB000      PDRYCB400



PDRYCB320      PDRYCB500

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	•	•	•	•

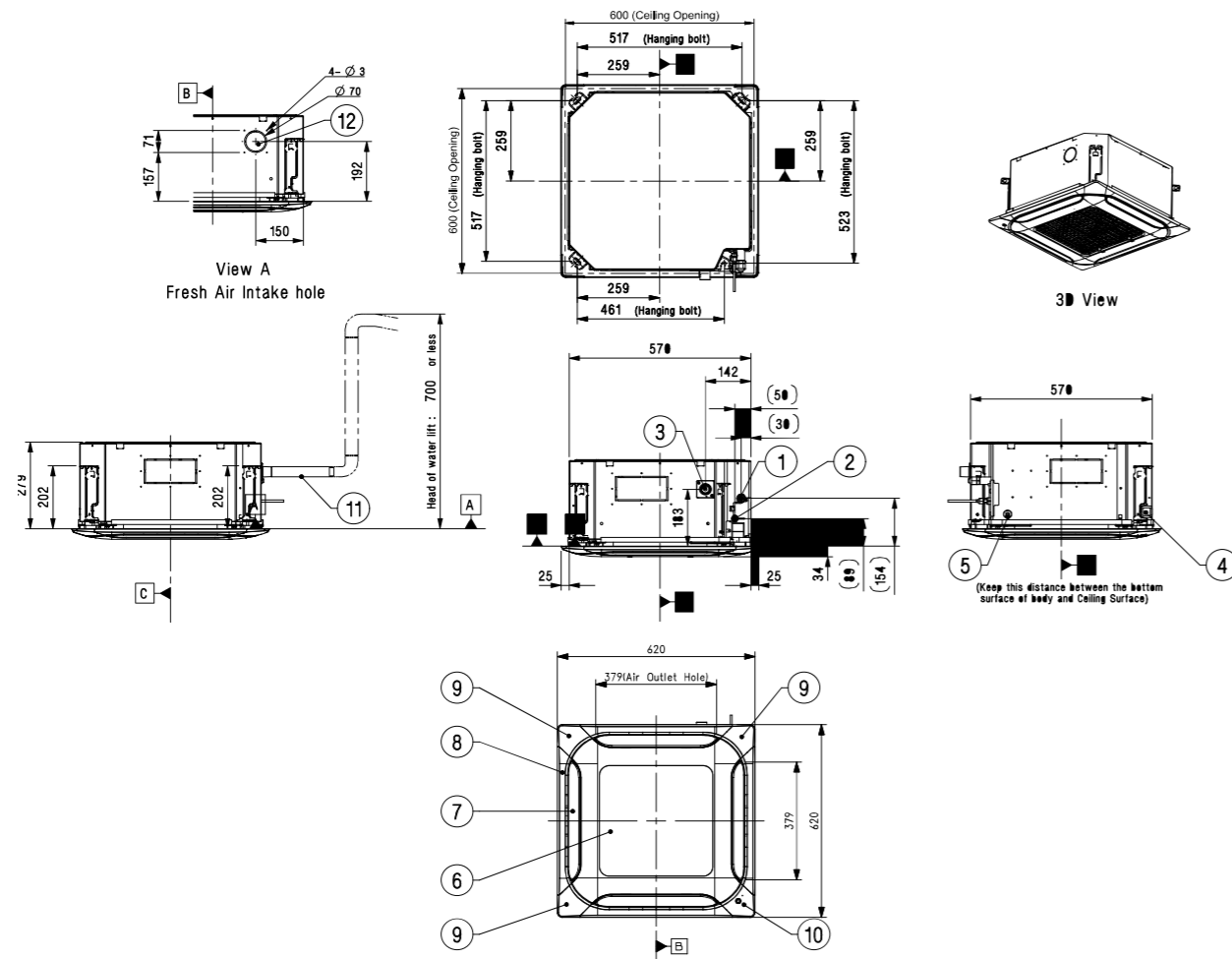
※ Refer to each product PDB for applicable models.

H-INVERTER (R32)

UT09FH NQ0 / UT12FH NQ0

(Unit : mm)

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

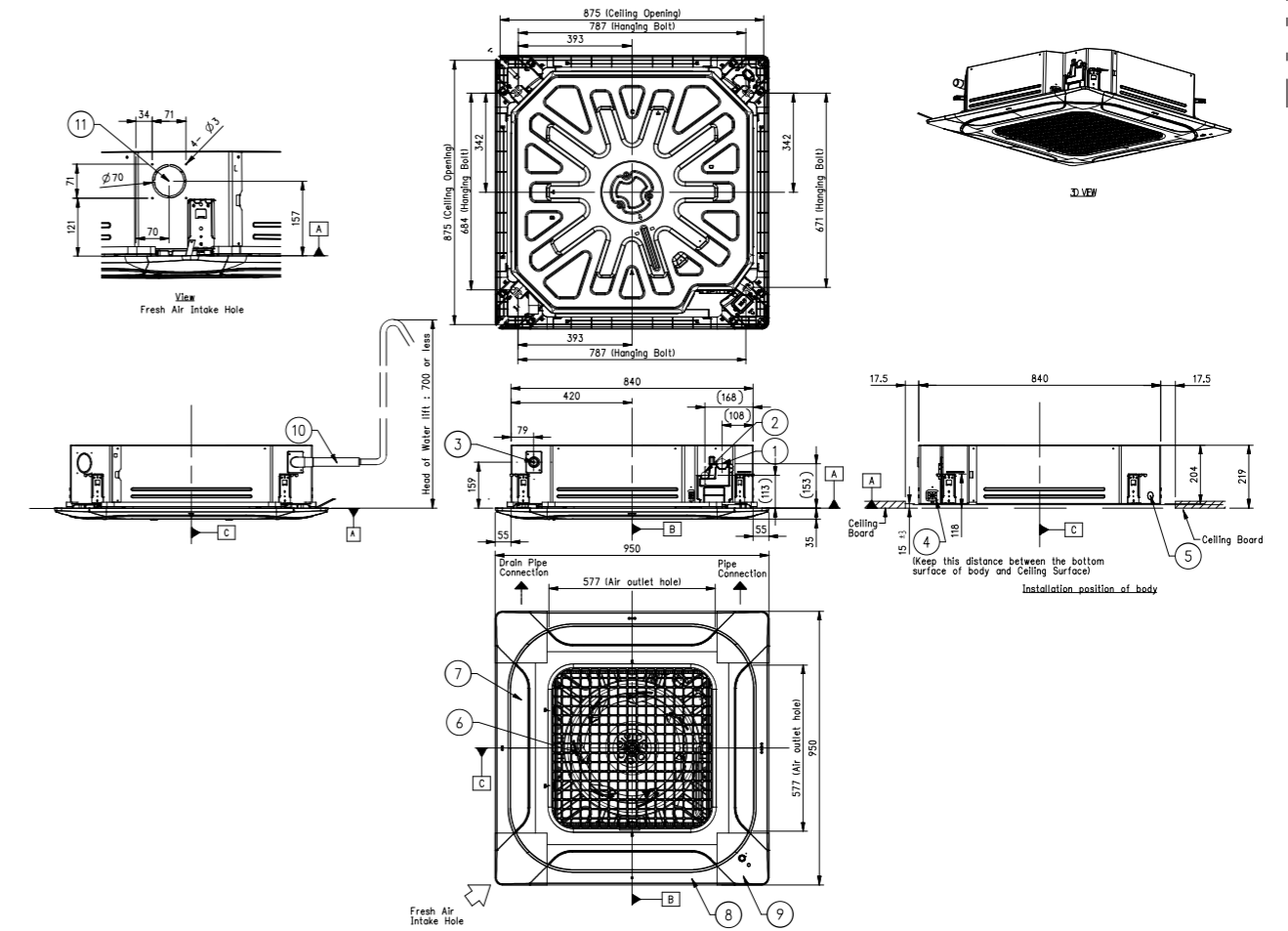


H-INVERTER (R32)

UT18FH NB0

(Unit : mm)

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

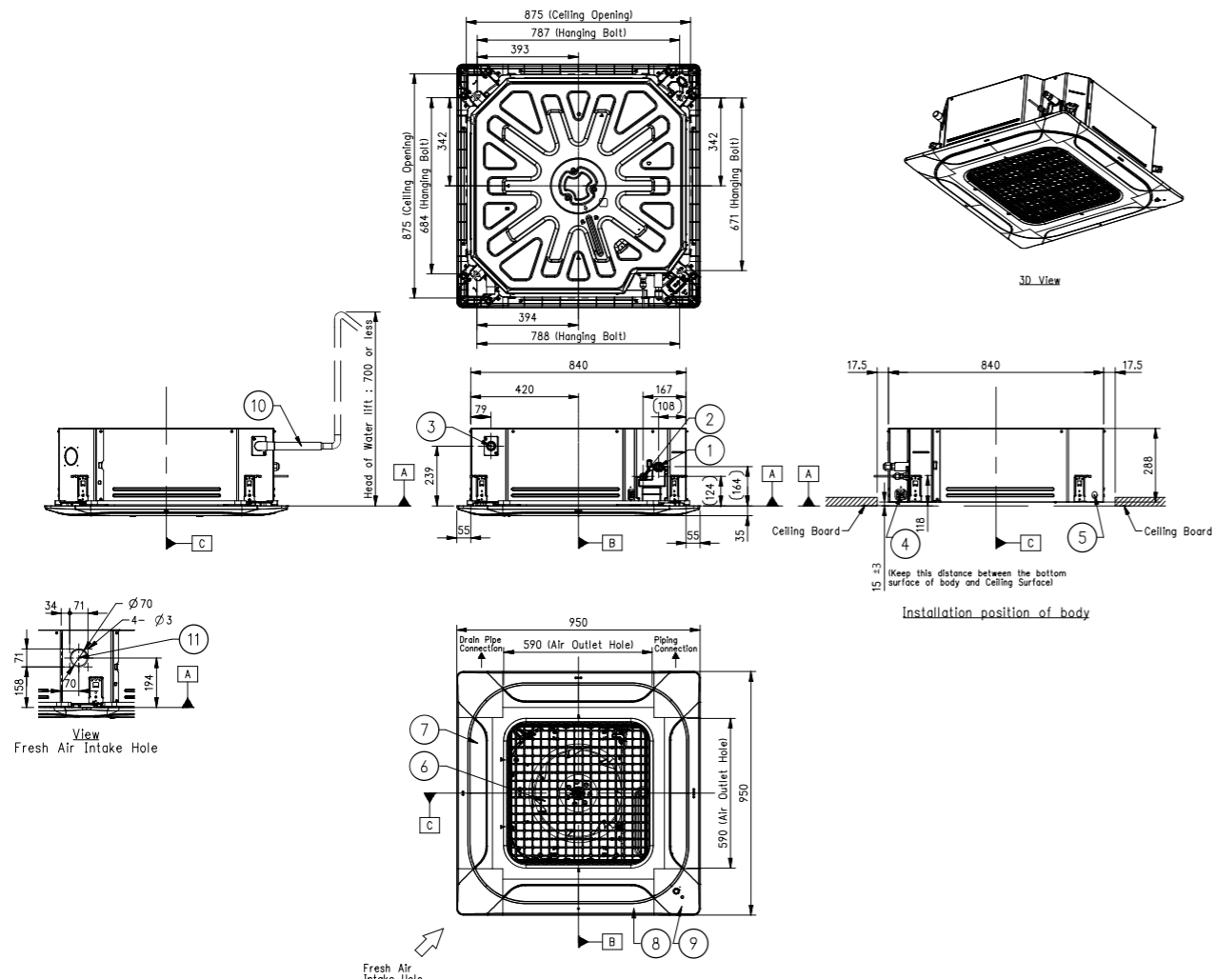


**H-INVERTER (R32)**

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

(Unit : mm)

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

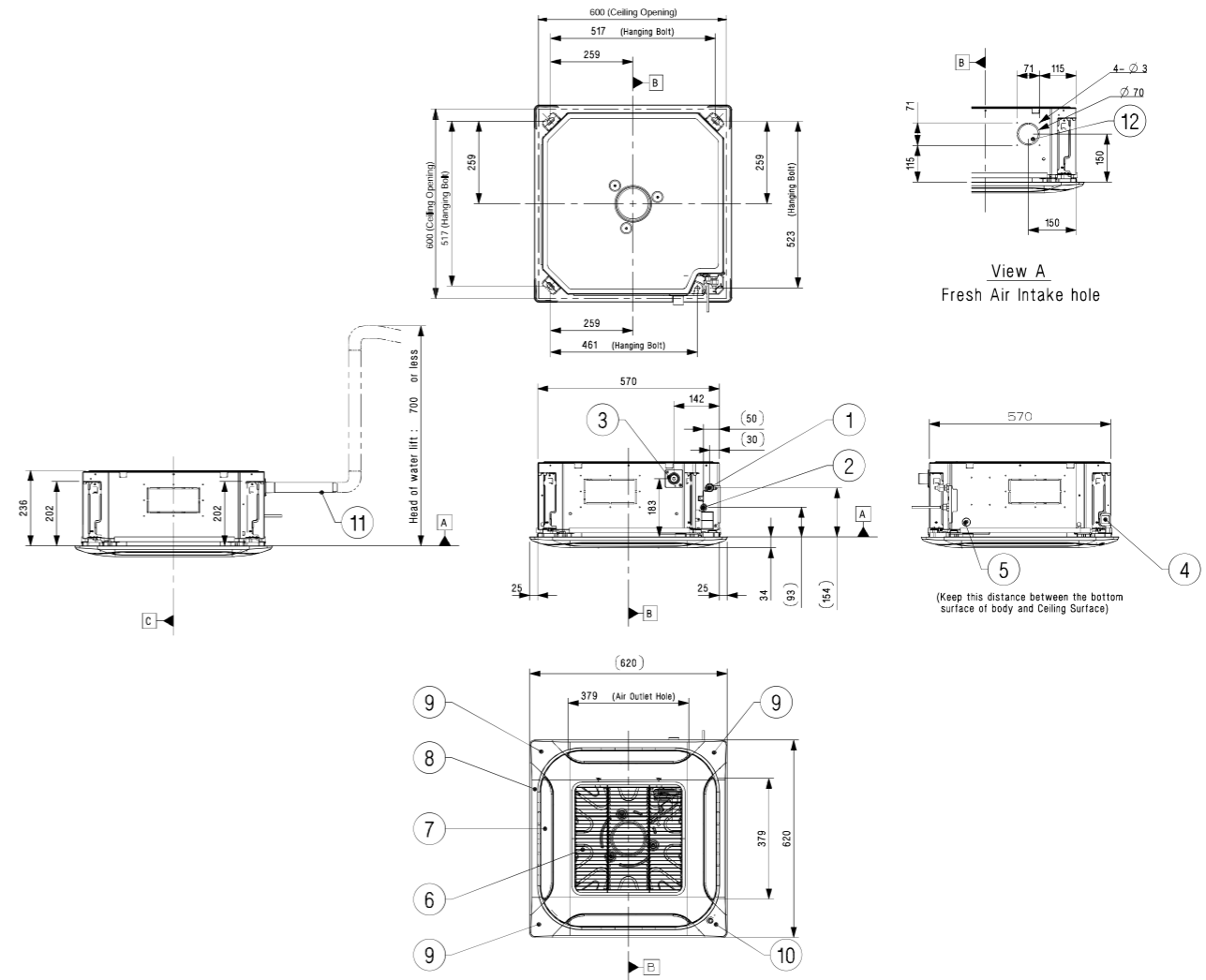


**STANDARD INVERTER (R32)**

CT09F NR0 / CT12F 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 Inlet
7	Air Outlet
8	Decoration Panel (Accessory)
9	Decoration Corner Cover
10	Decoration Corner Display Cover
11	Flexible Drain Hose
12	Fresh air Intake Hole

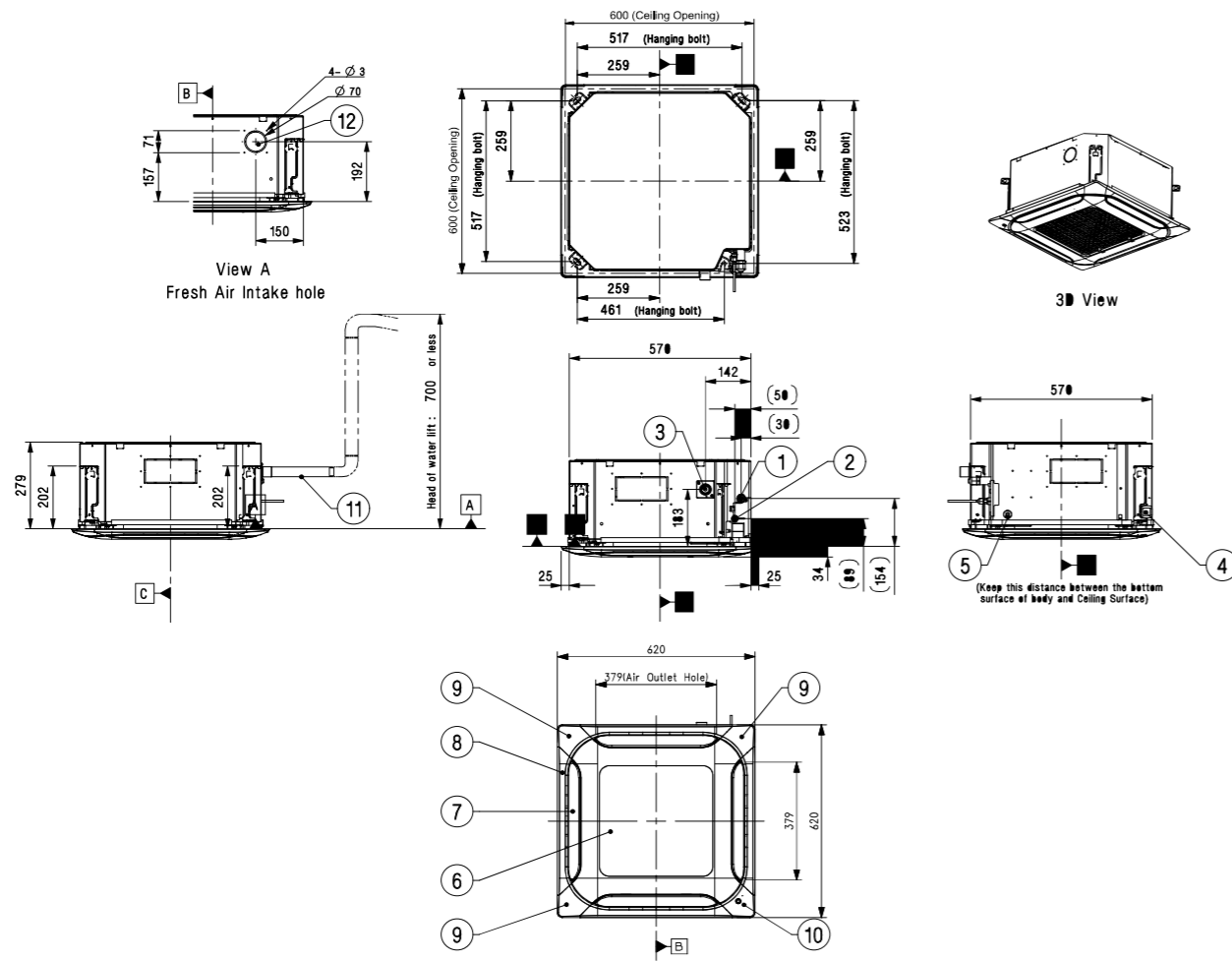


STANDARD / COMPACT INVERTER (R32)

CT18F NQO

(Unit : mm)

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

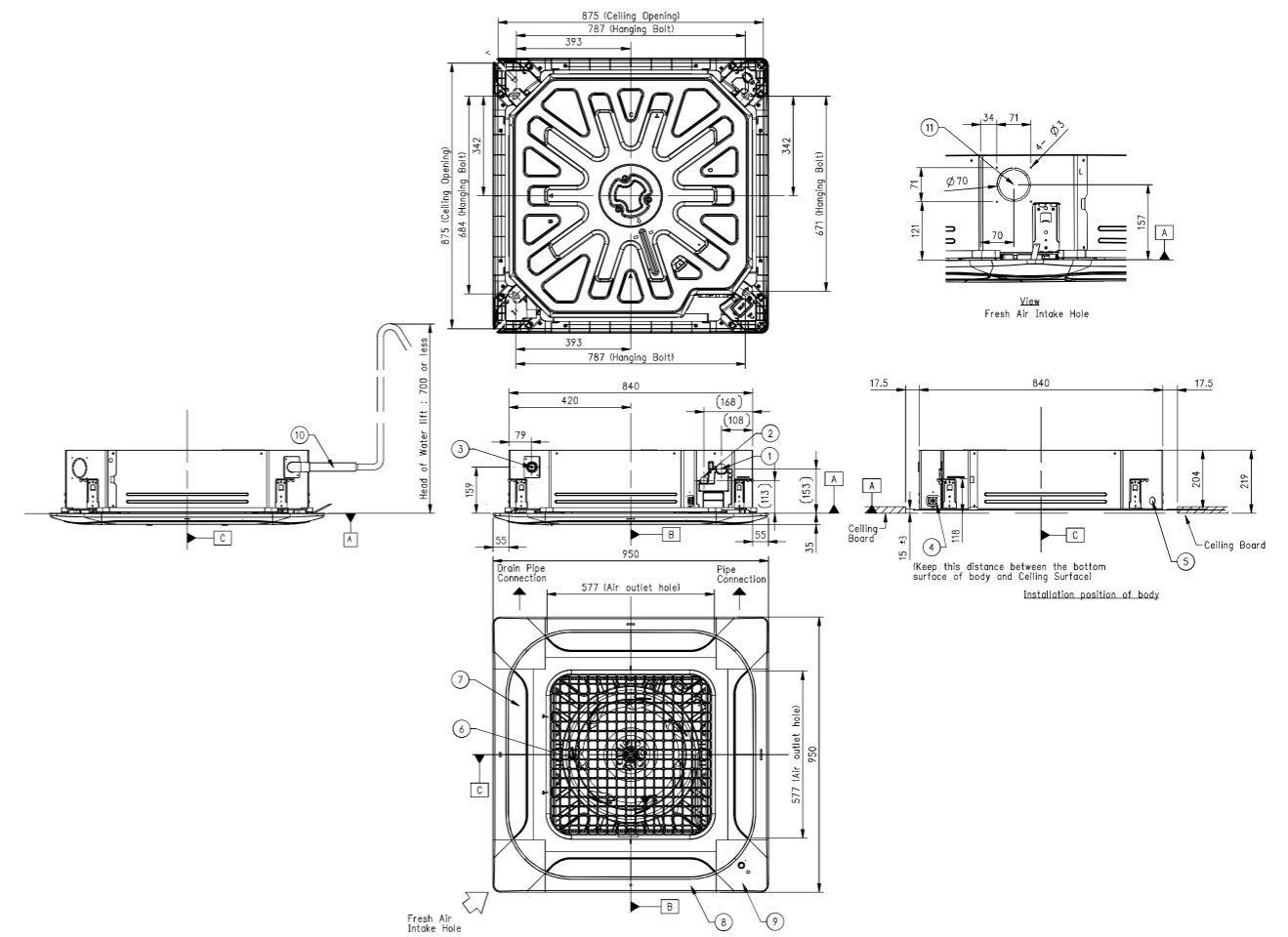


STANDARD / COMPACT INVERTER (R32)

CT24F NB0 / UT30F NB0

(Unit : mm)

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

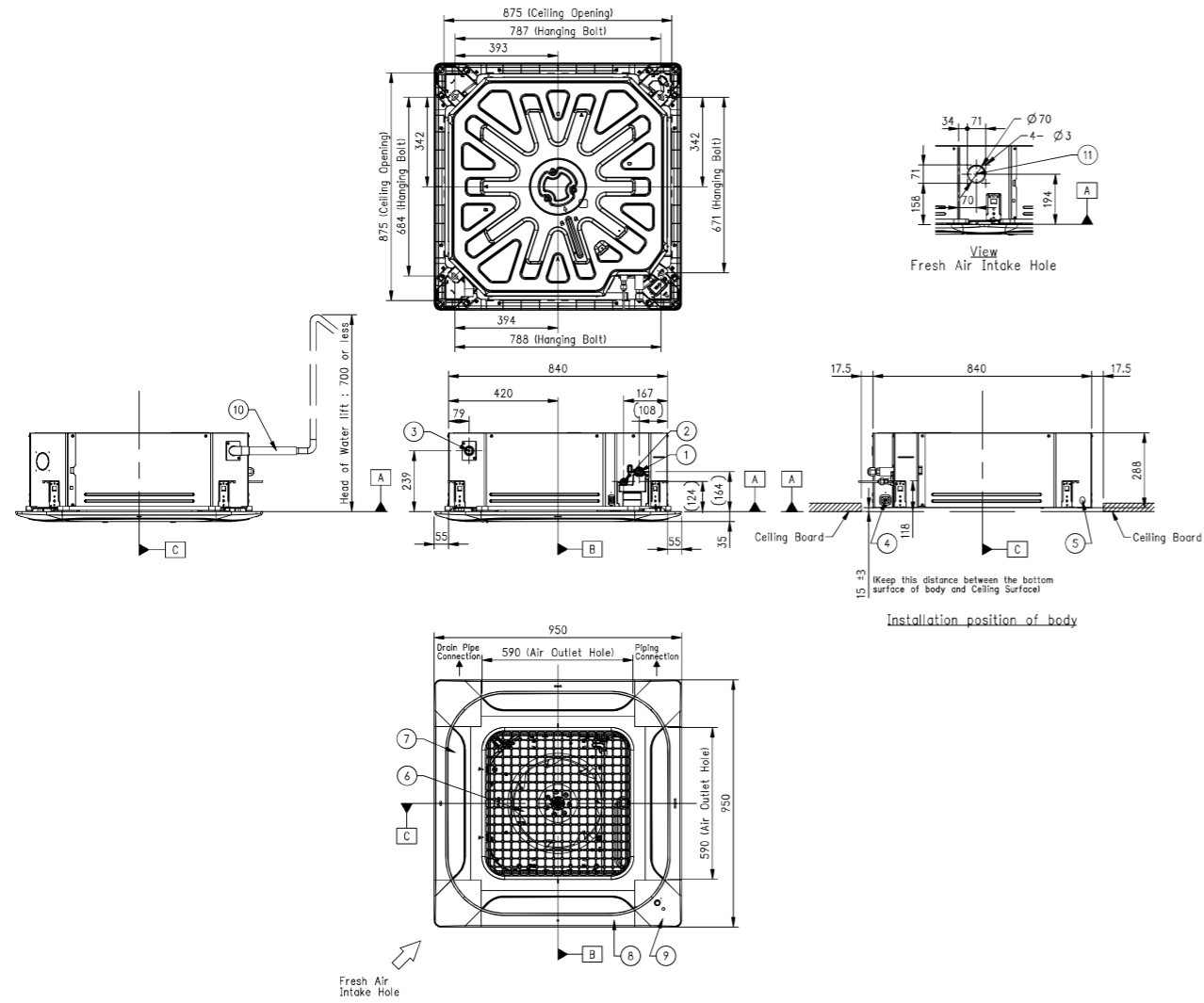


STANDARD / COMPACT INVERTER (R32)

UT36F NAO

(Unit : mm)

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

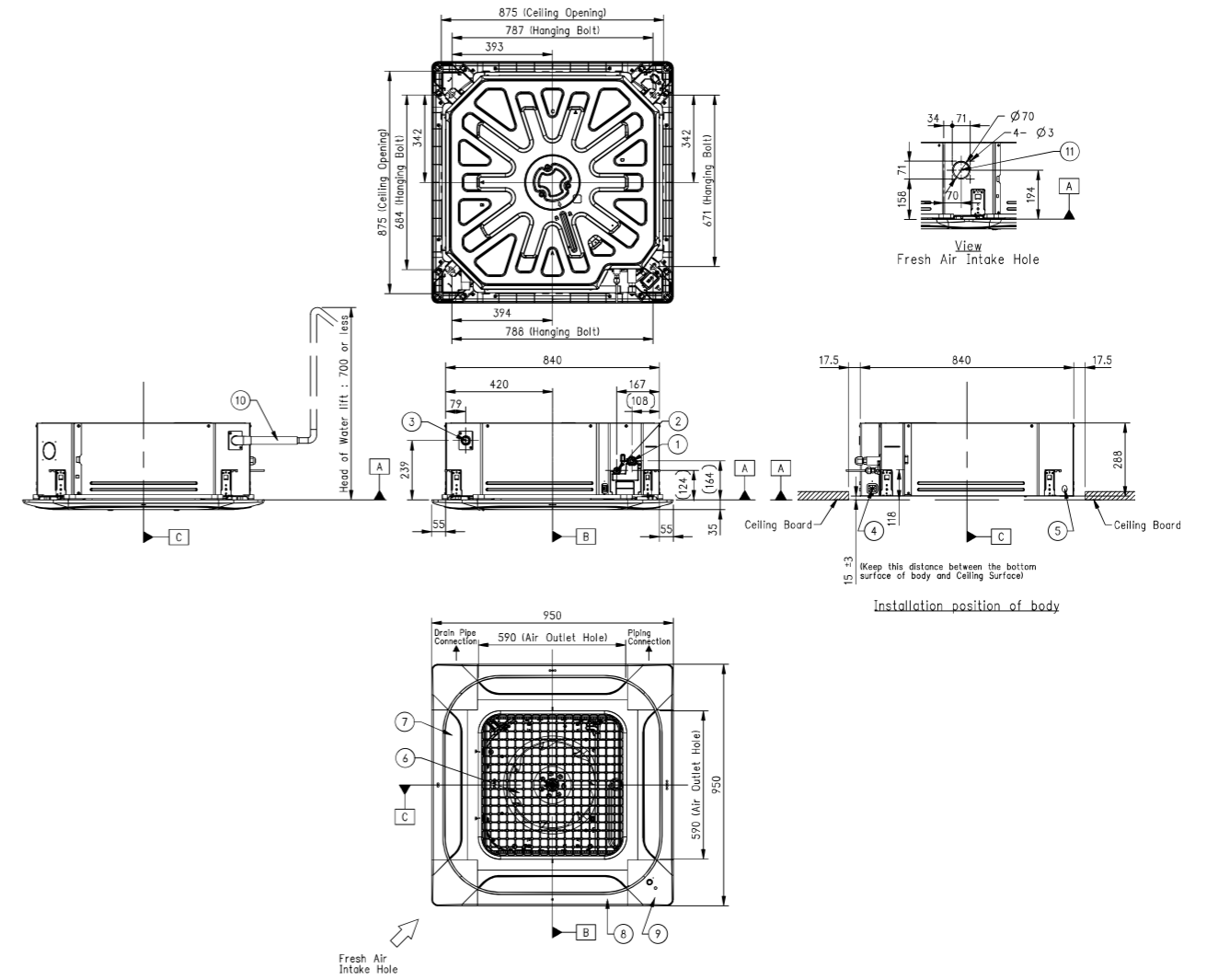


STANDARD INVERTER (R32)

UT42F NAO / UT48F NAO / UT60F NAO

(Unit : mm)

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

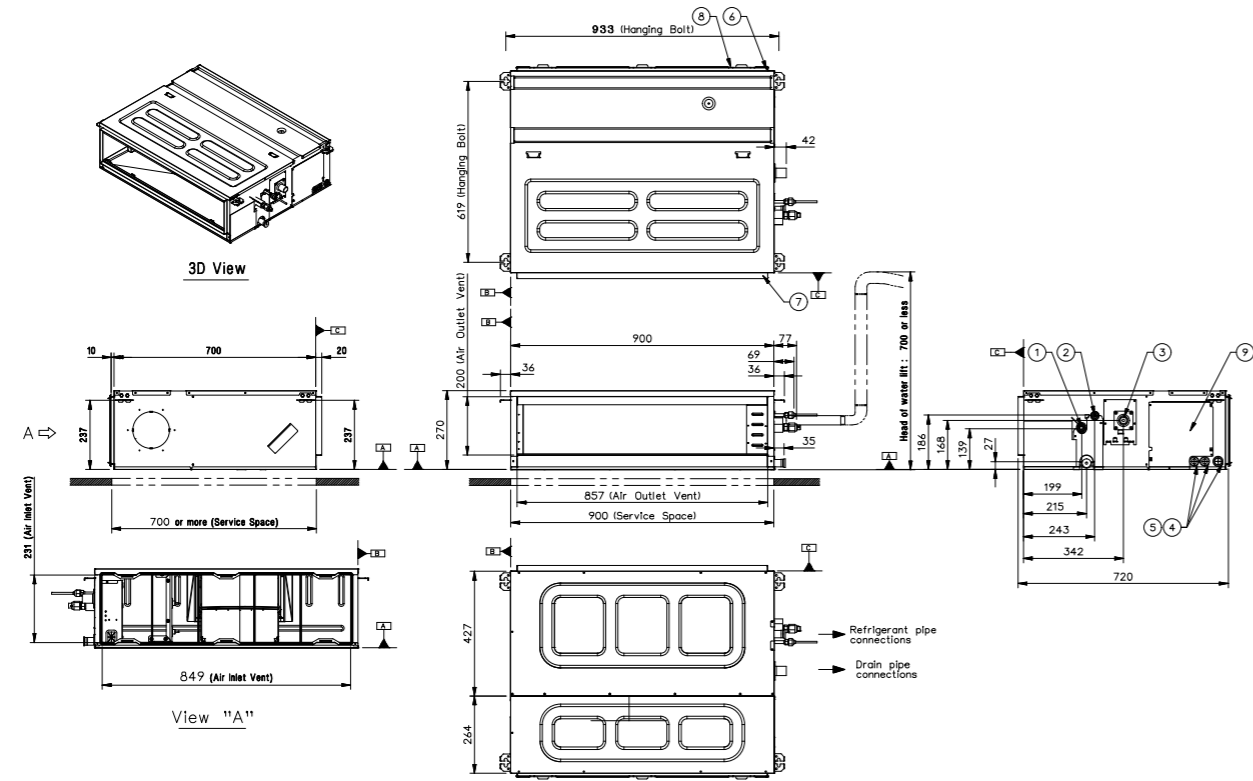


H-INVERTER (R32) / MID STATIC

UM12FH N10 / UM18FH N10

(Unit : mm)

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

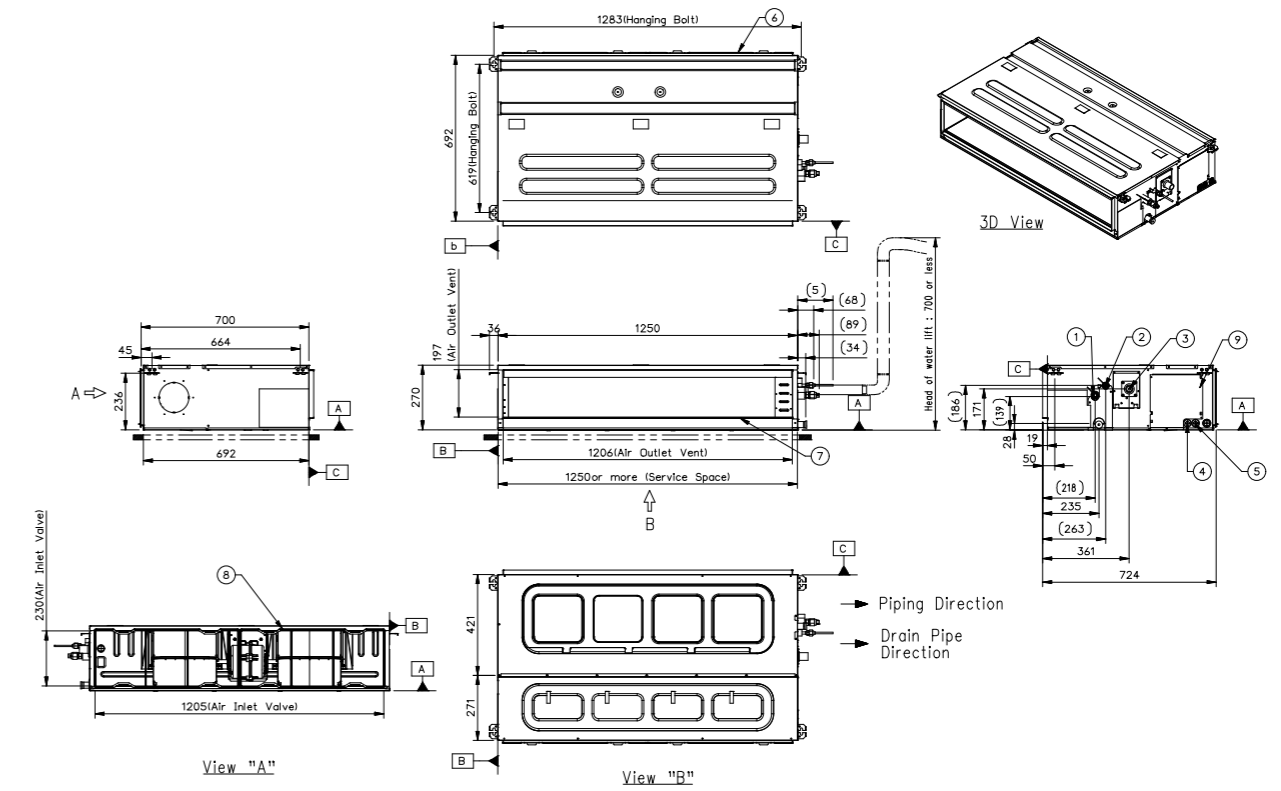


H-INVERTER (R32) / MID STATIC

UM24FH N20 / UM30FH N20

(Unit : mm)

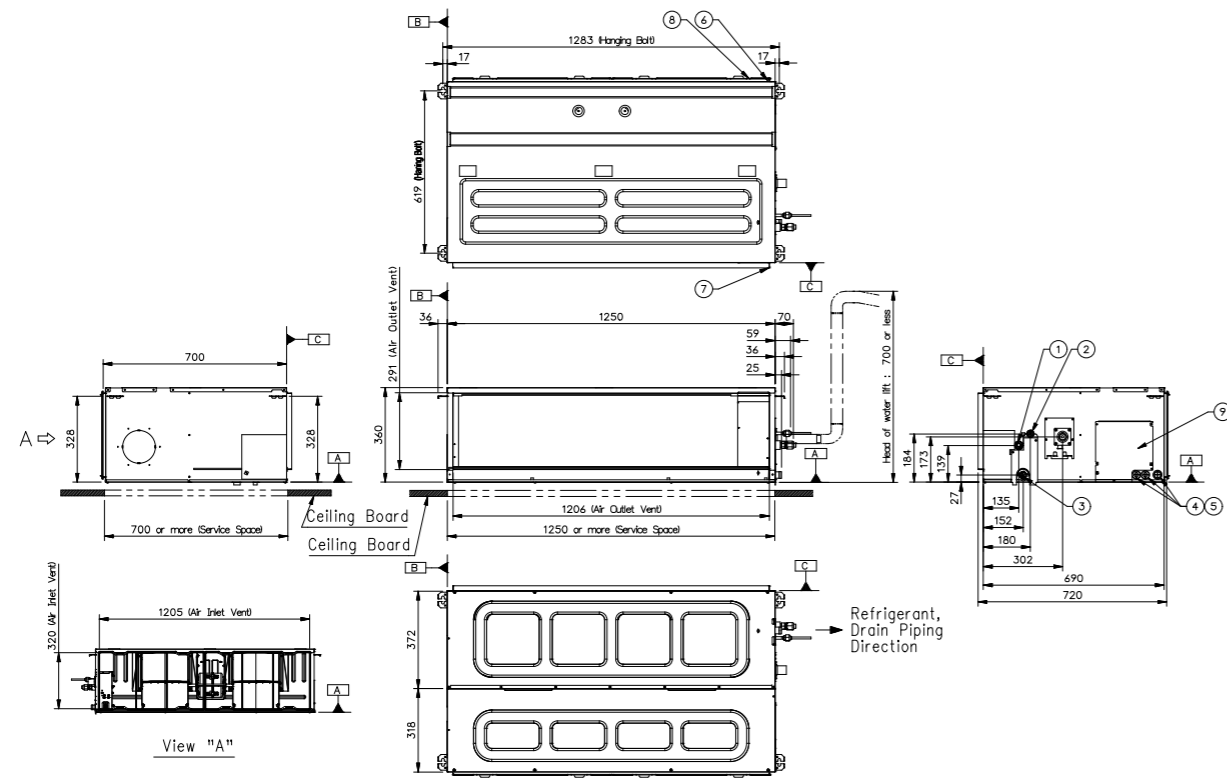
PART NAME
1 Gas Pipe Connection
2 Liquid Pipe Connection
3 Drain Pipe Connection
4 Power and Communication Cable Routing Hole
5 Remote Controller Cable Hole
6 Air Inlet
7 Air Outlet
8 Air Filters
9 Control Cover



**H-INVERTER (R32) / MID STATIC**  
**UM36FH N30 / UM42FH N30 / UM48FH N30**

(Unit : mm)

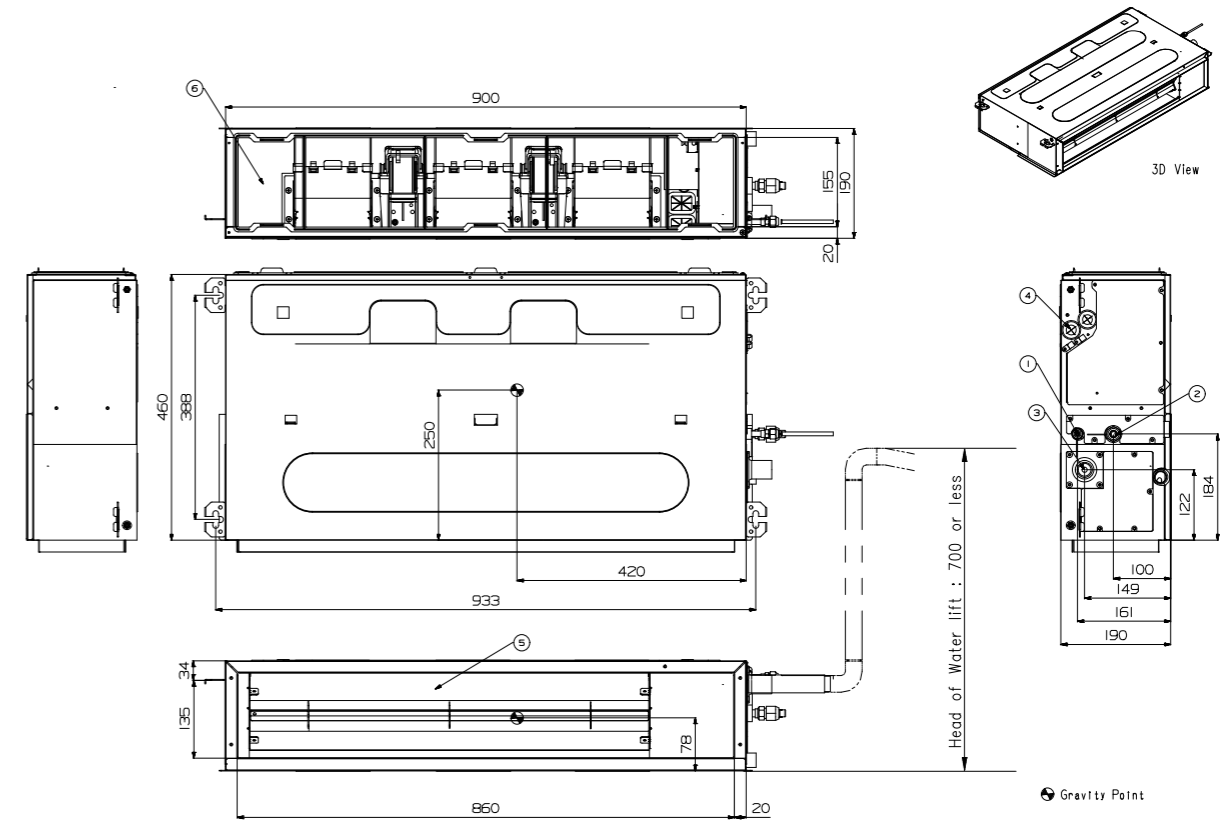
PART NAME	
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Remote Controller Cable Hole
6	Air Inlet
7	Air Outlet
8	Air Filters
9	Control Cover



**H-INVERTER (R32) / LOW STATIC**  
**UL12FH N50**

(Unit : mm)

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

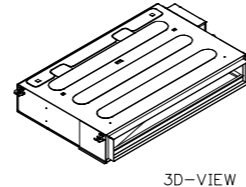
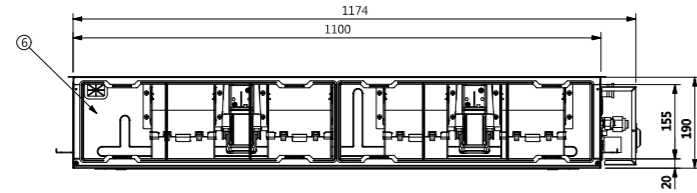


H-INVERTER (R32) / LOW STATIC

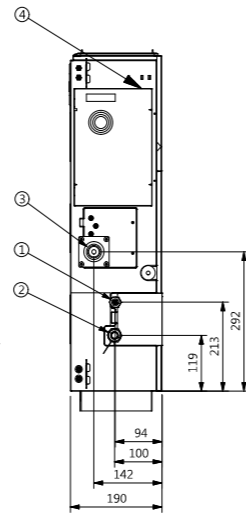
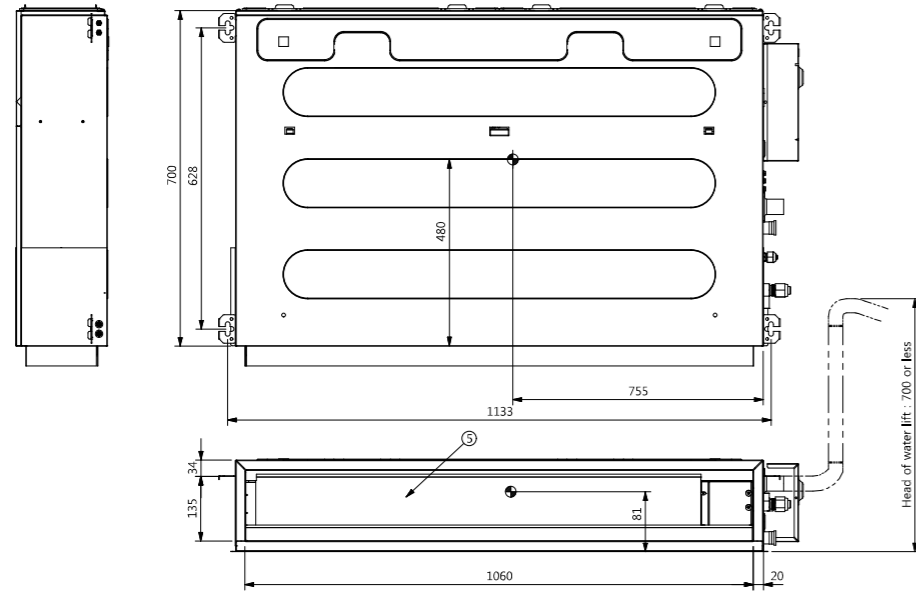
UL18FH N30

(Unit : mm)

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



3D-VIEW



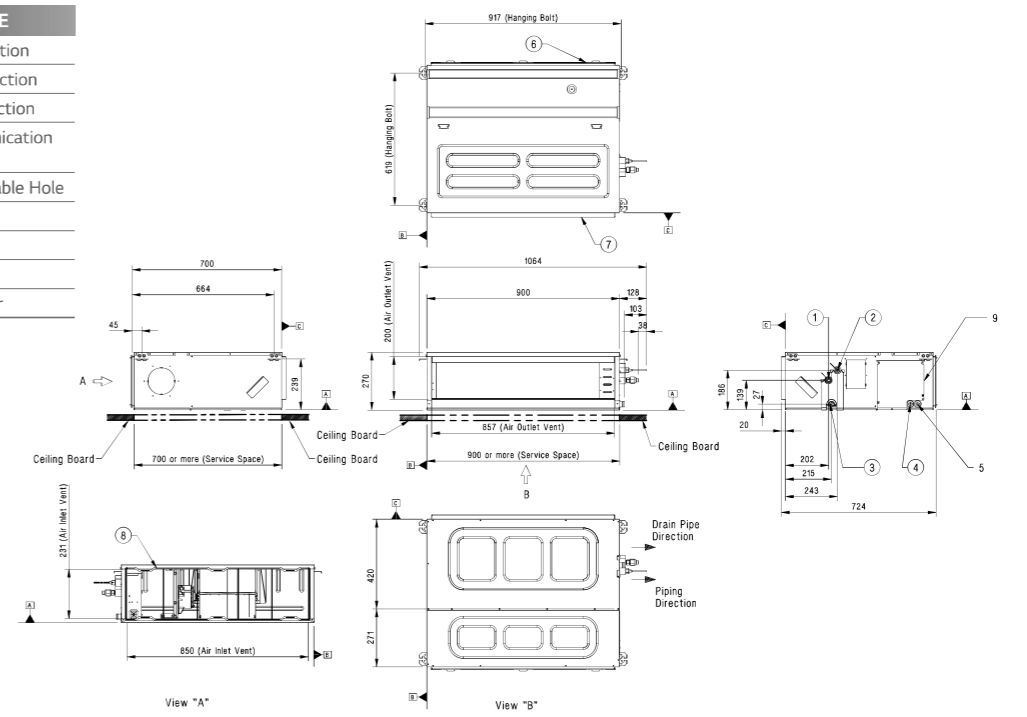
● Gravity point

STANDARD / COMPACT INVERTER (R32) / MID STATIC

CM18F N10 / CM24F N10 / UM30F N10

(Unit : mm)

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

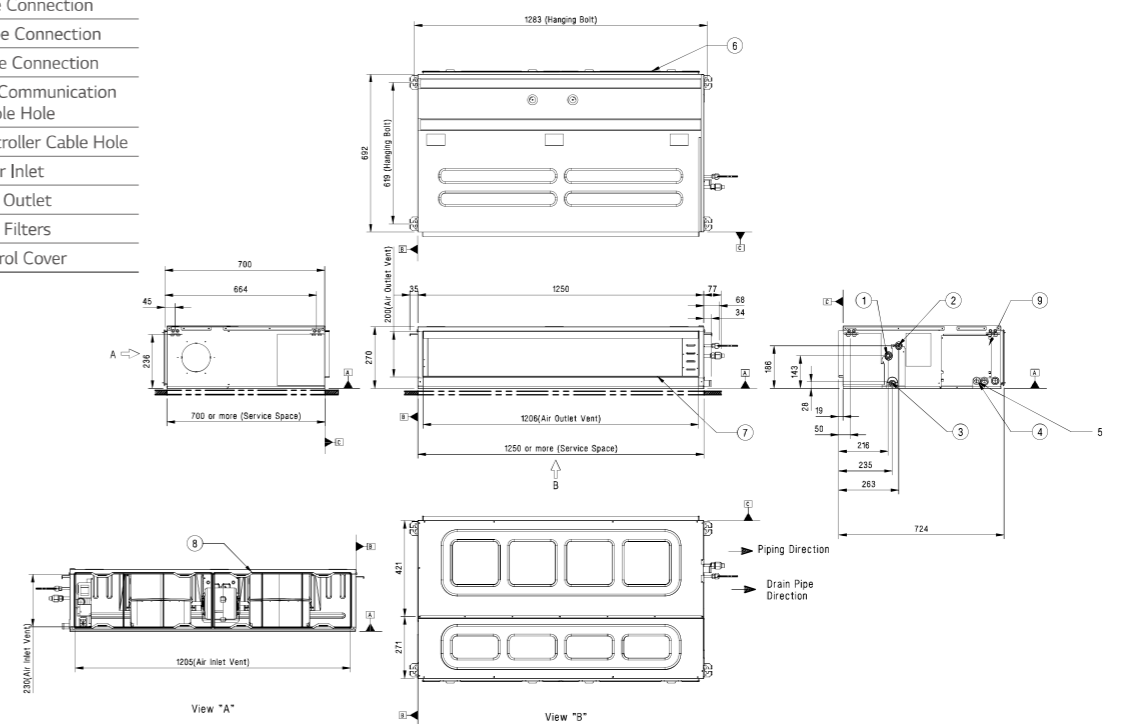


STANDARD / COMPACT INVERTER (R32) / MID STATIC

UM36F N20

(Unit : mm)

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



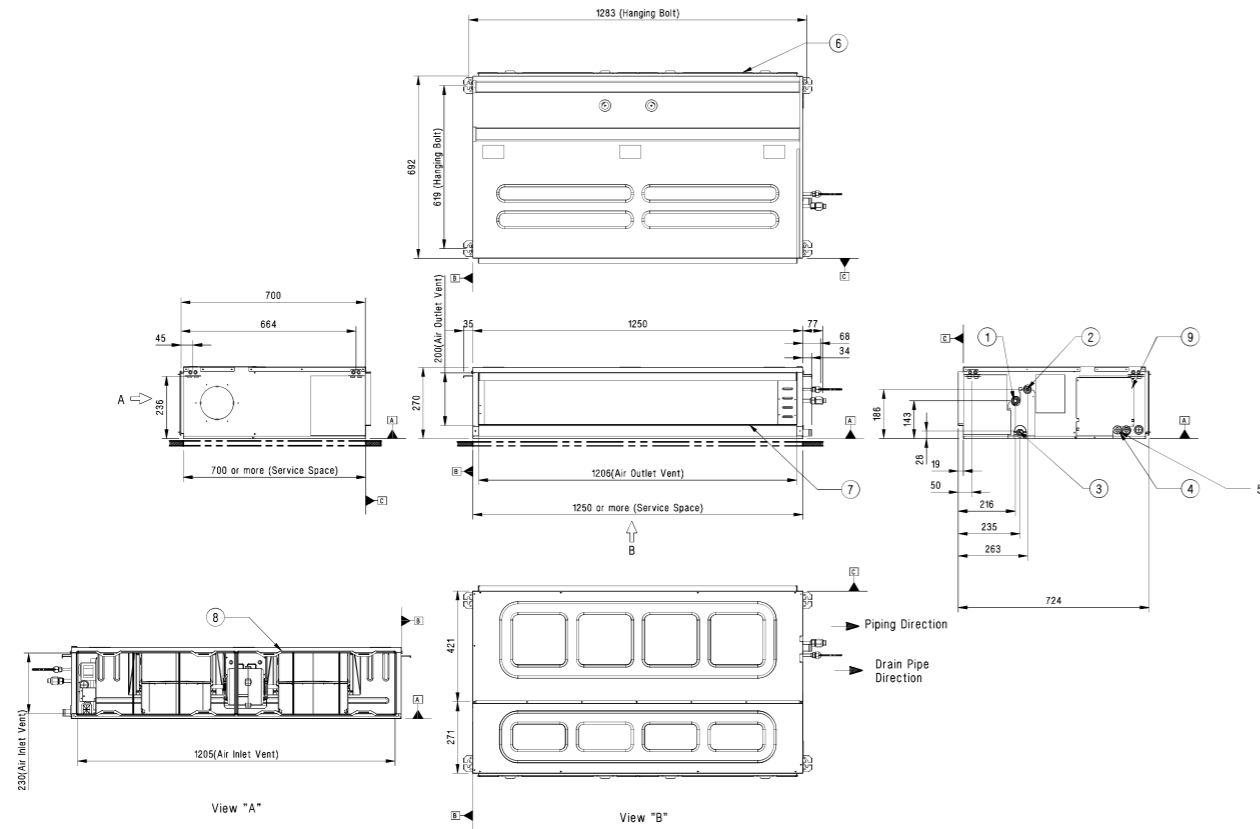


STANDARD INVERTER (R32) / MID STATIC

UM42F N20

(Unit : mm)

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

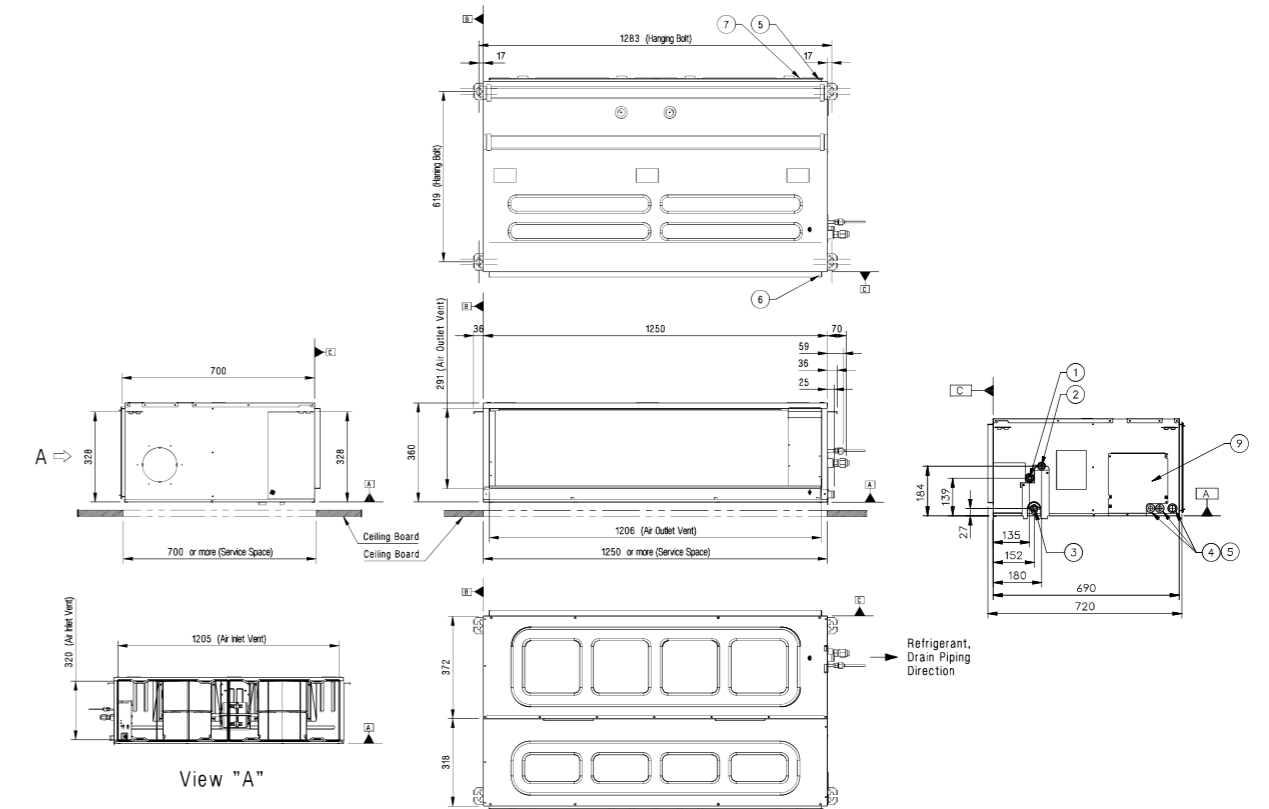


STANDARD INVERTER (R32) / MID STATIC

UM48F N30 / UM60F N30

(Unit : mm)

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

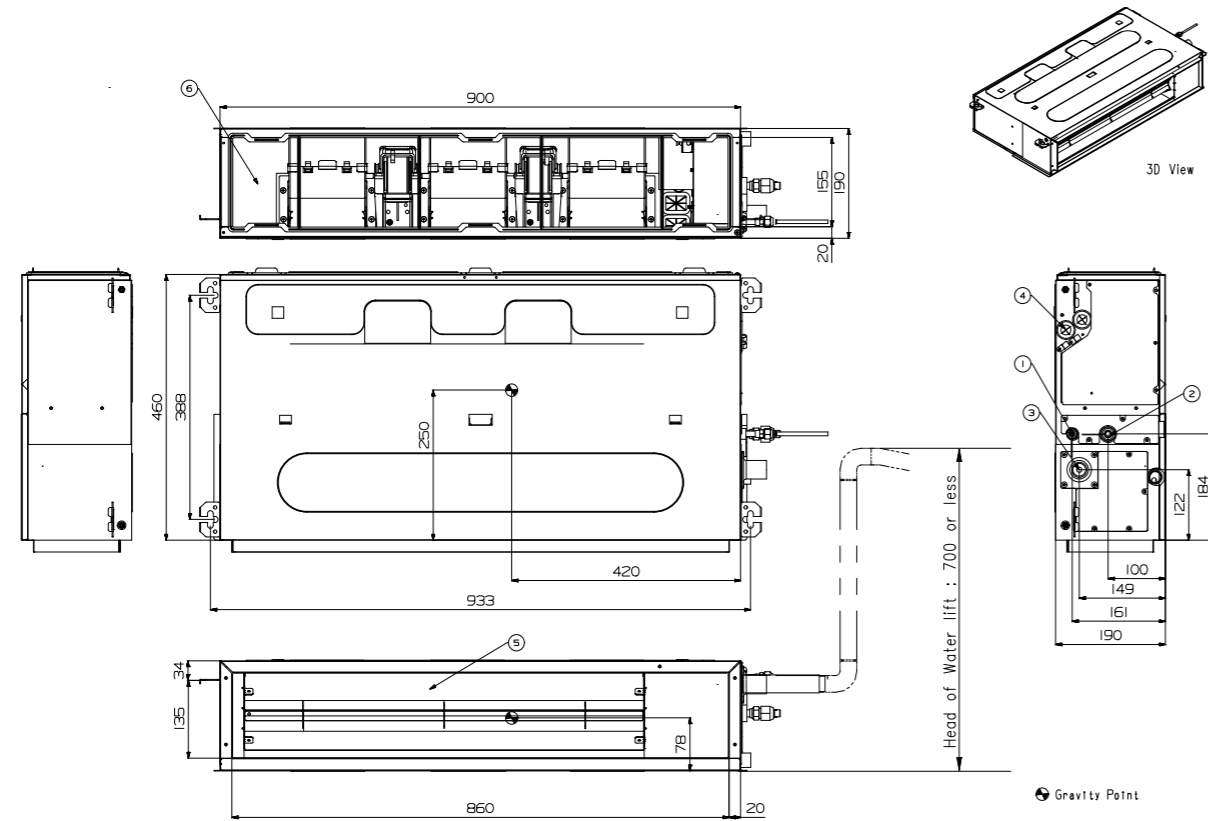


STANDARD INVERTER (R32) / LOW STATIC

CL09F N50 / CL12F N50

(Unit : mm)

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

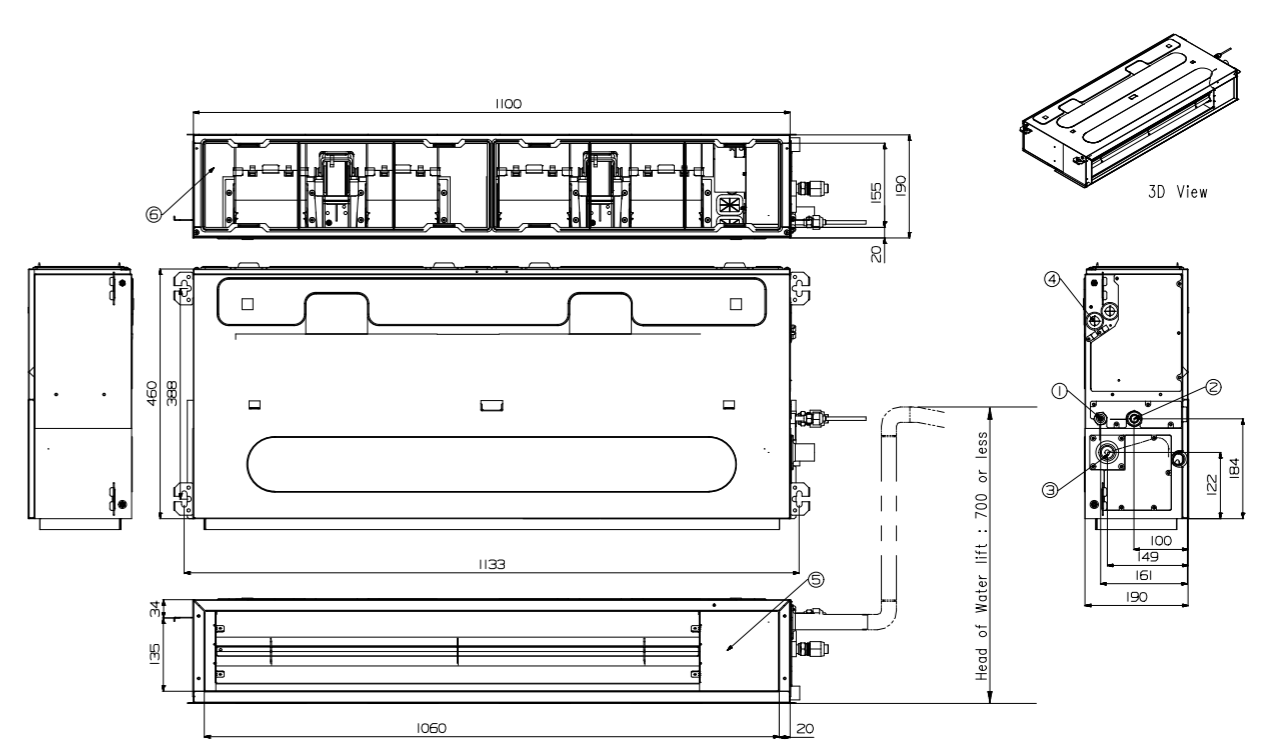


STANDARD / COMPACT INVERTER (R32) / LOW STATIC

CL18F N60

(Unit : mm)

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

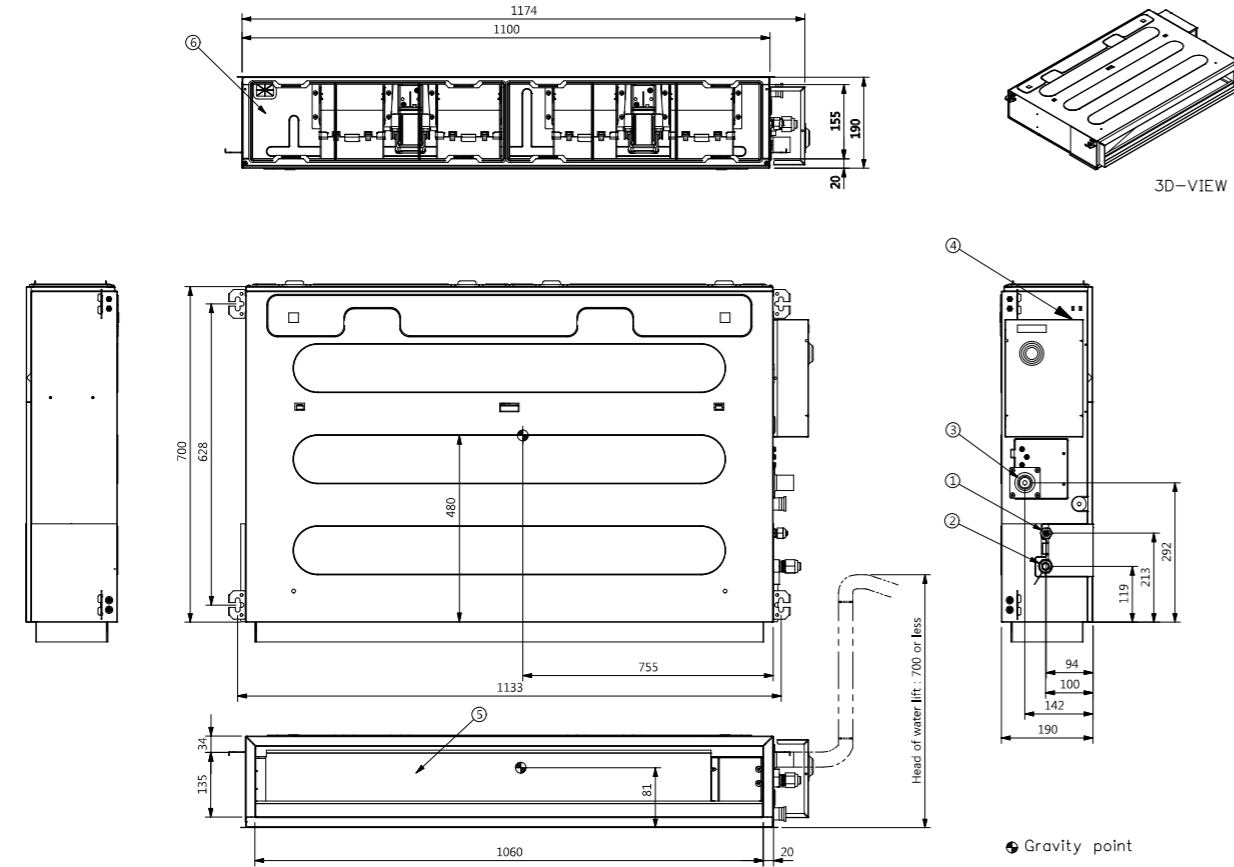


STANDARD / COMPACT INVERTER (R32) / LOW STATIC

CL24F N30

(Unit : mm)

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

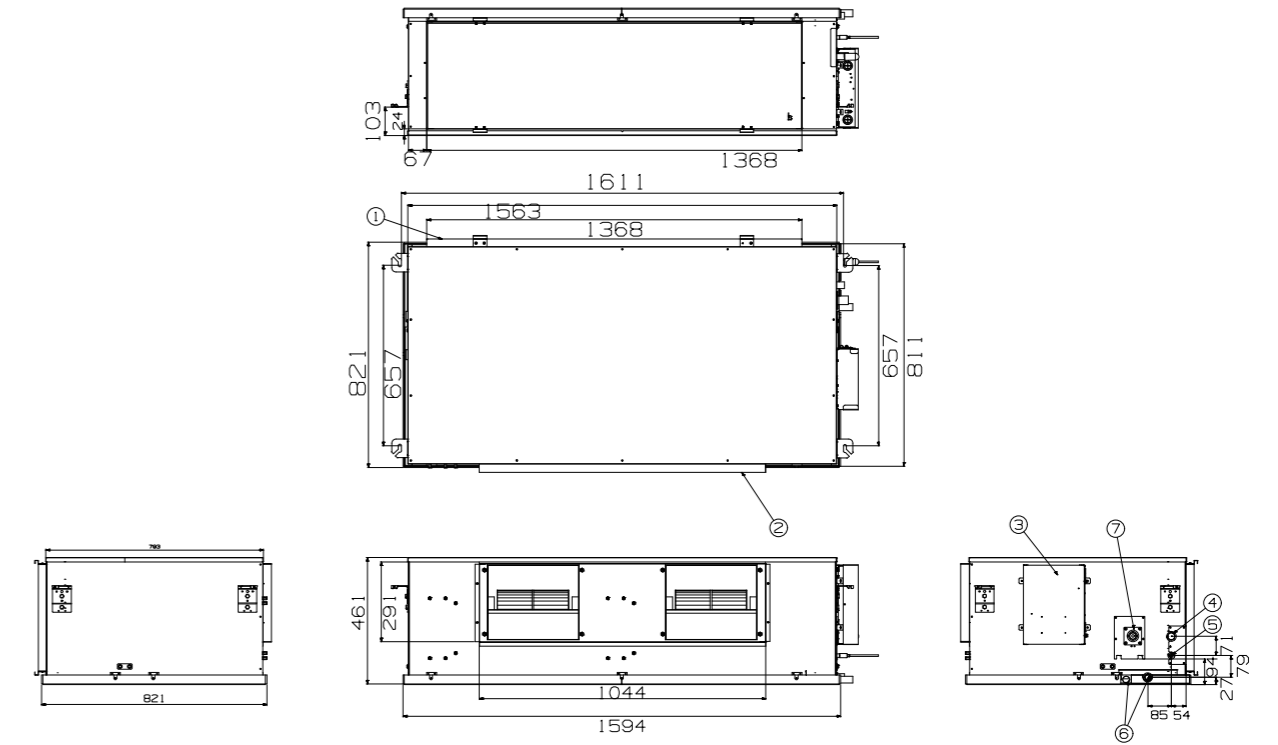


STANDARD INVERTER (R410A) / HIGH STATIC

UB70 N94 / UB85 N94

(Unit : mm)

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

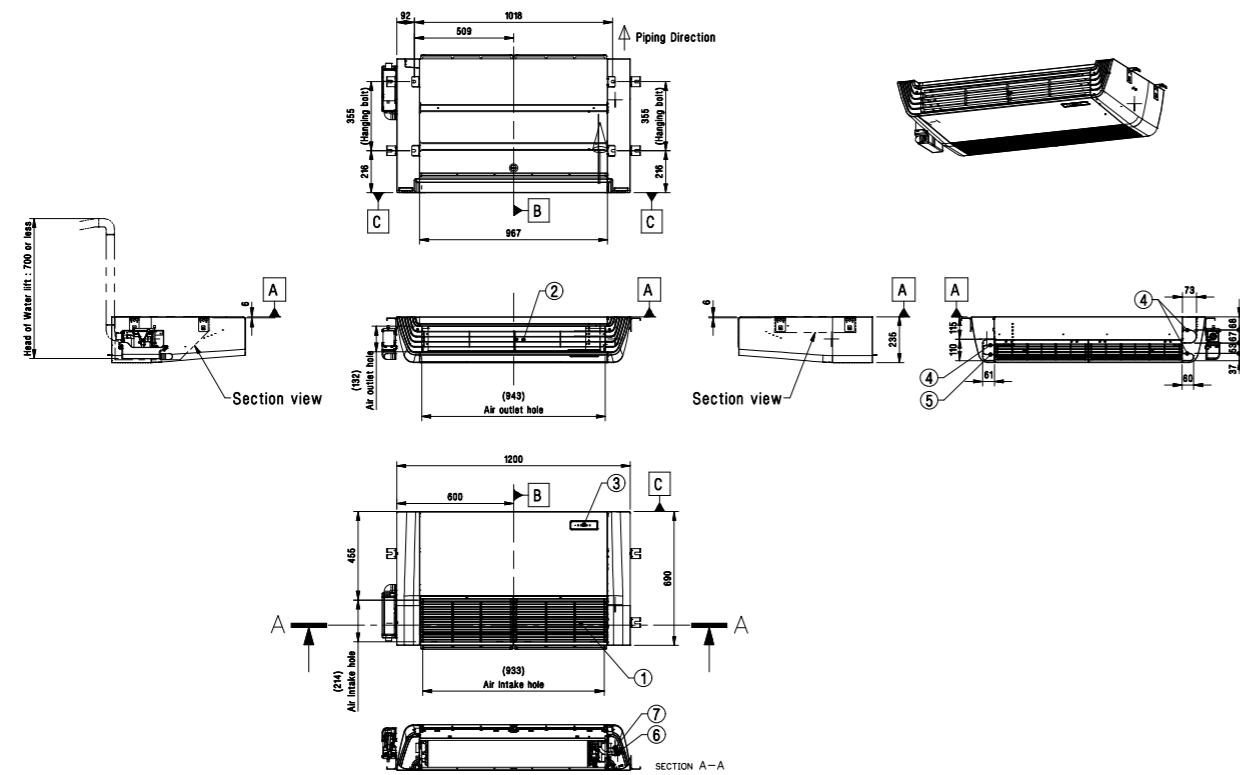


H-INVERTER (R32)

UV18FH N10

(Unit : mm)

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

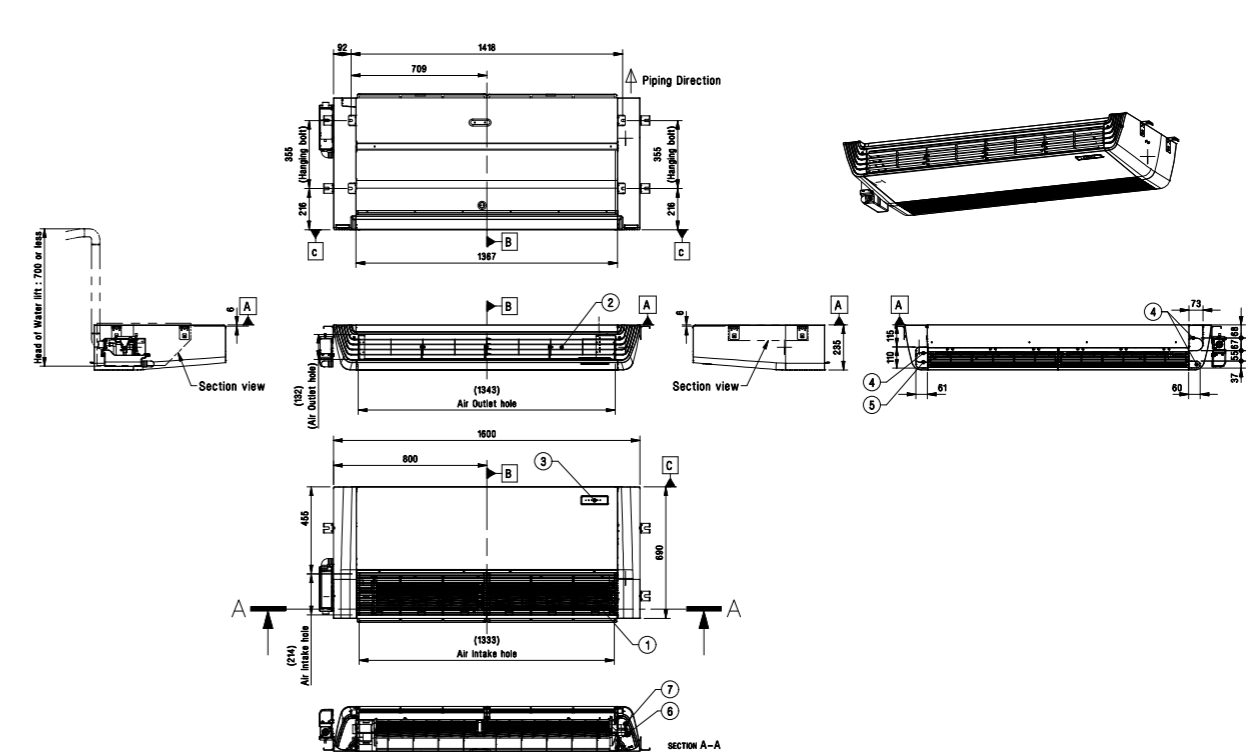


H-INVERTER (R32)

UV24FH N20 / UV30FH N20 / UV36FH N20 / UV42FH N20

(Unit : mm)

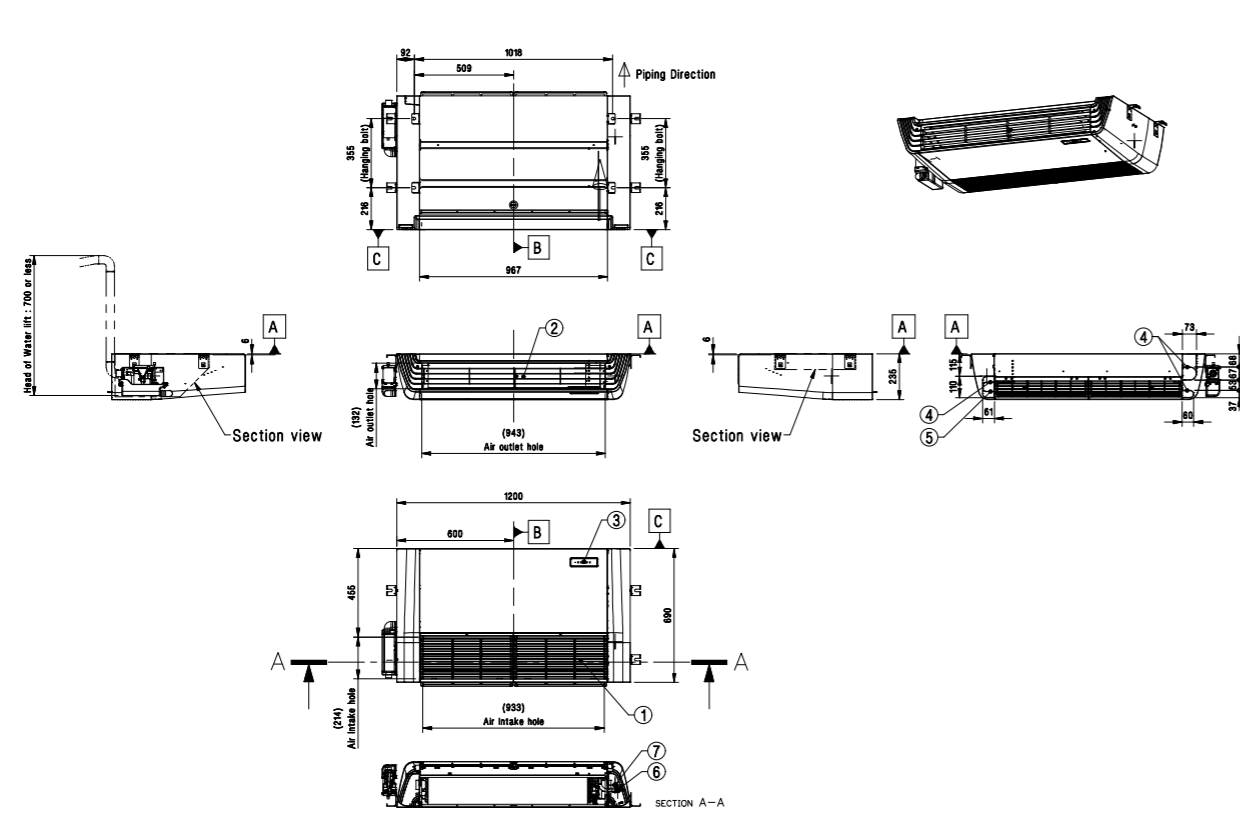
	PART NAME
1	Air Inlet
2	Air Outlet
3	Remote Controller Signal Receiver
4	Drain Hose Routing Hole
5	Refrigerant Pipe and Routing Hole
6	Gas Pipe Connection
7	Liquid Pipe Connection



**STANDARD / COMPACT INVERTER (R32)**  
**UV18F N10 / UV24F N10 / UV30F N10**

(Unit : mm)

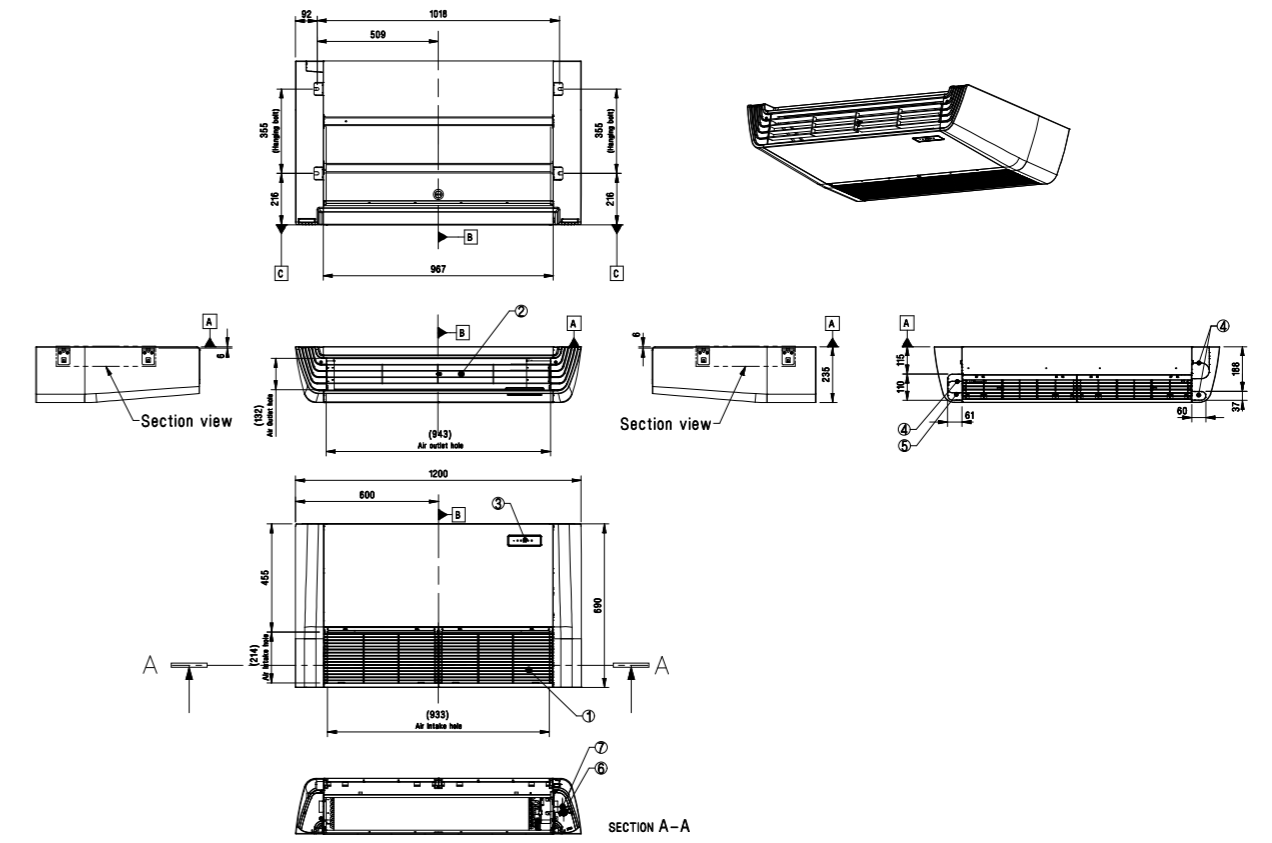
PART NAME	
1	Air Inlet
2	Air Outlet
3	Remote Controller Signal Receiver
4	Drain Hose Routing Hole
5	Refrigerant Pipe and Routing Hole
6	Gas Pipe Connection
7	Liquid Pipe Connection



**STANDARD INVERTER (R32)**  
**UV36F N20 / UV42F N20 / UV48F N20 / UV60F N20**

(Unit : mm)

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

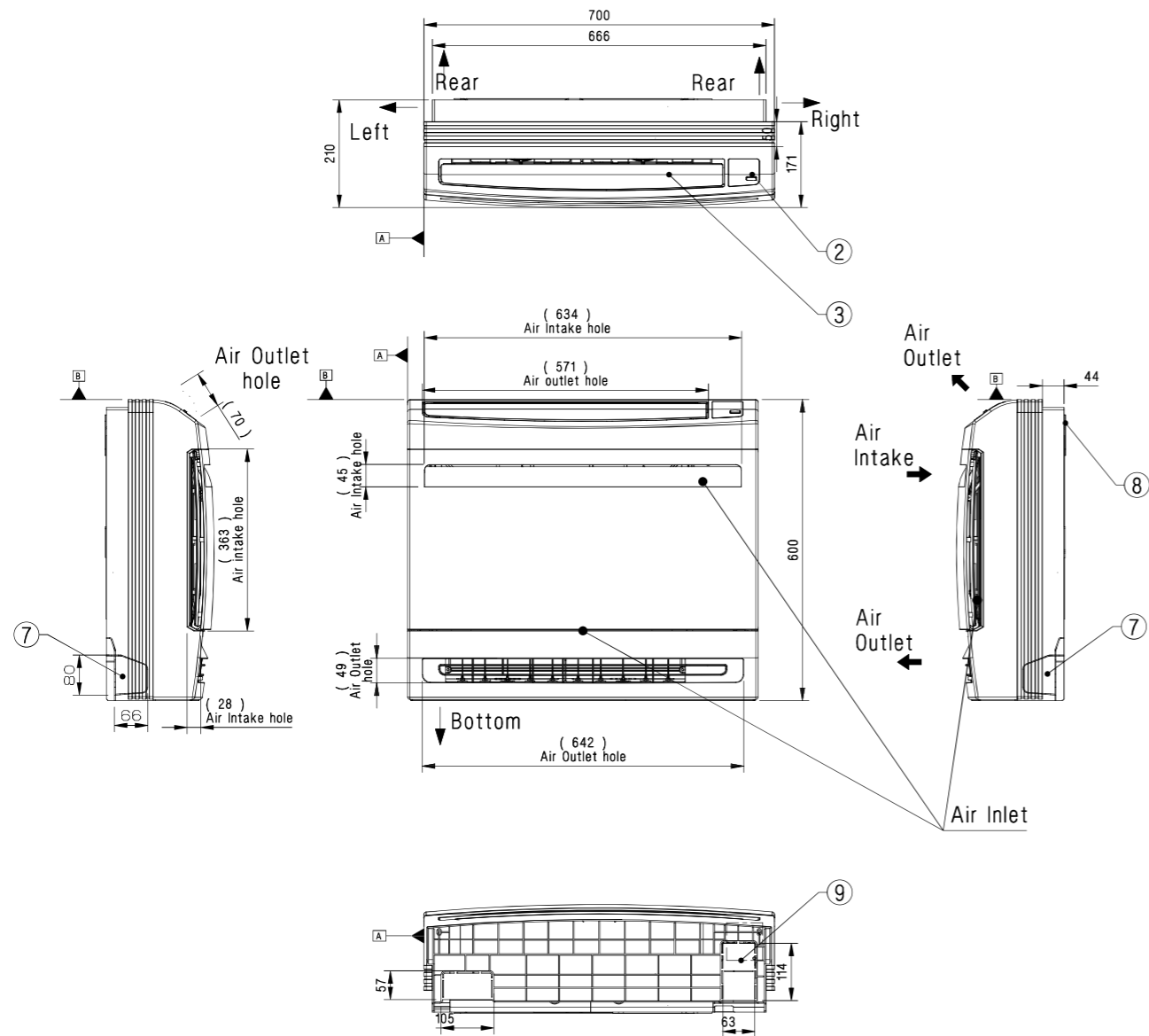


STANDARD INVERTER (R32)

UQ09 NAO / UQ12 NAO / UQ18 NAO

(Unit : mm)

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

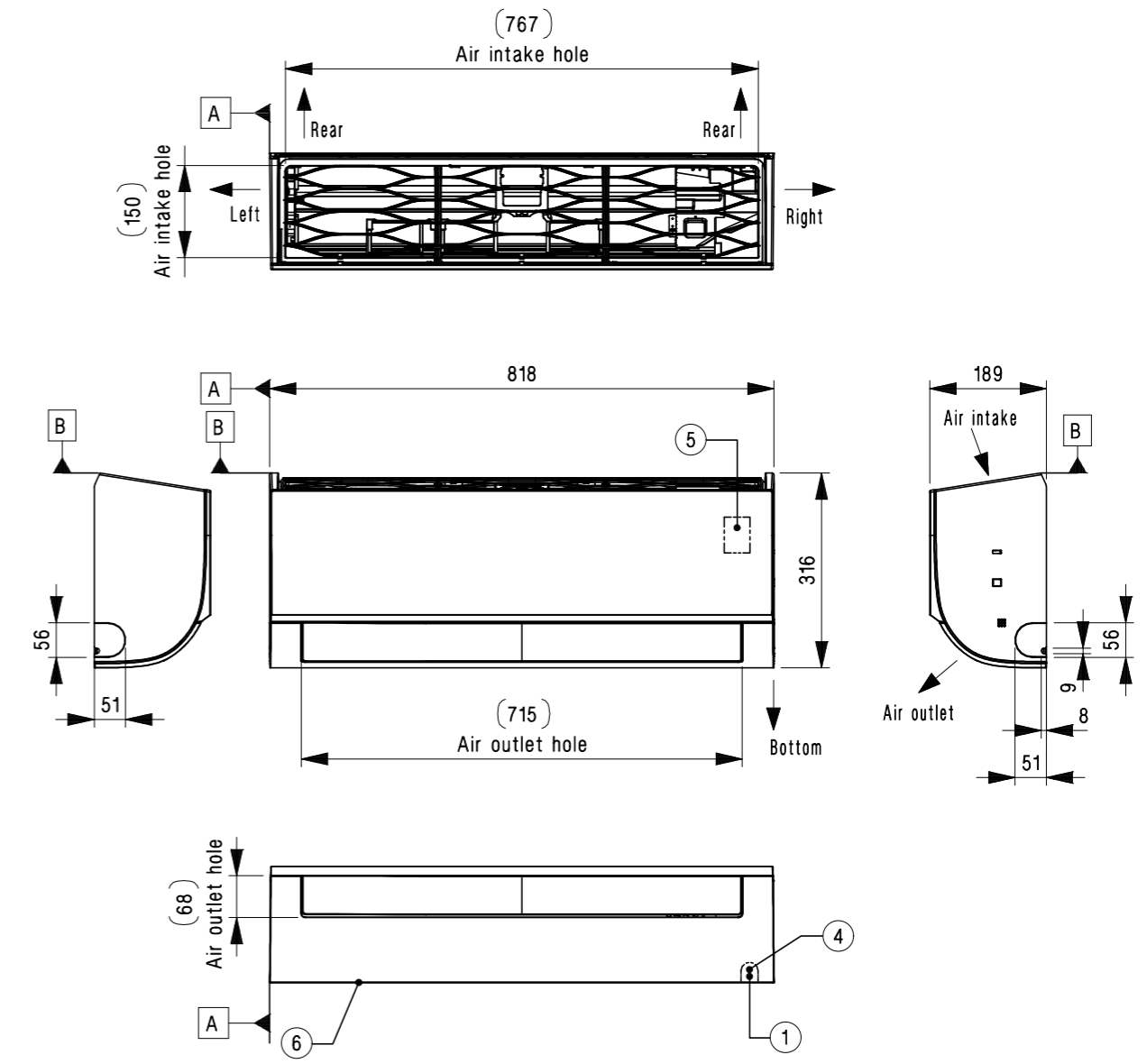


STANDARD INVERTER (R32)

MJ09PC NSJ / MJ12PC NSJ

(Unit : mm)

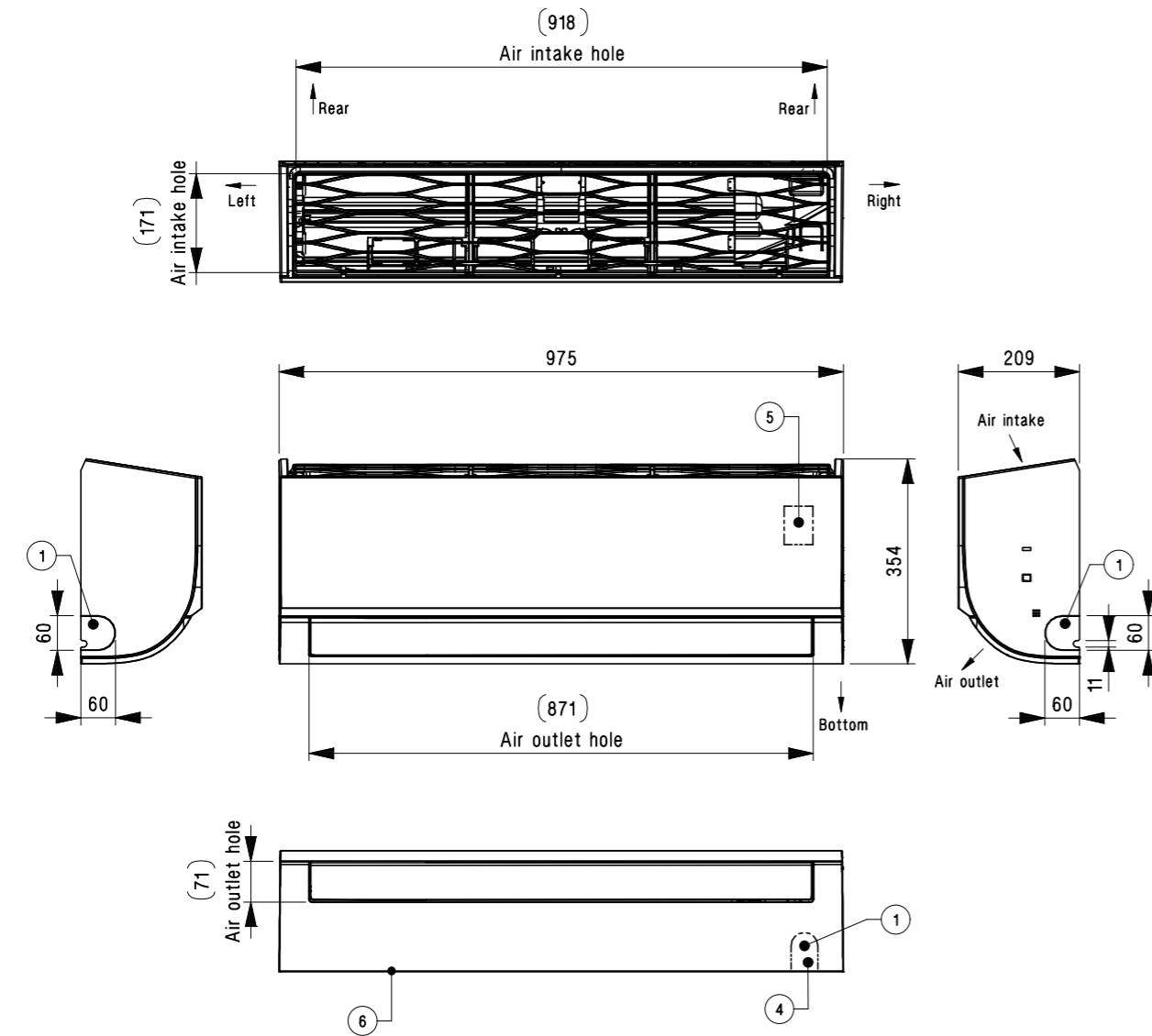
PART NAME
1 Refrigerant / Drain Pipe and Cable Routing Hole
2 Installation Plate
3 Drain Hose Connection
4 Terminal Block for Power Supply Communication
5 Display & Remote Controller Signal Receiver
6 Decoration Cover



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

(Unit : mm)

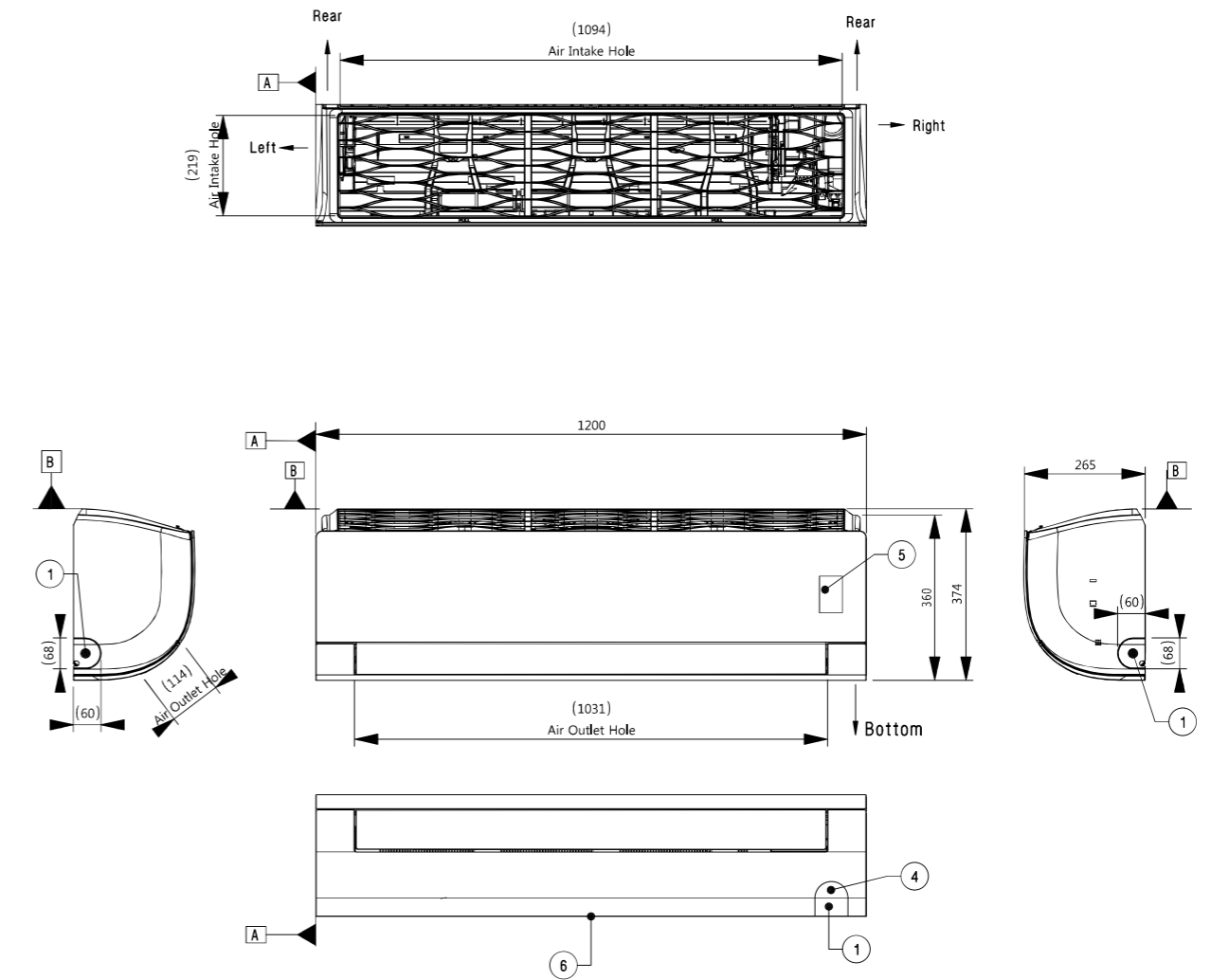
	PART NAME
1	Refrigerant / Drain Pipe and Cabel Routing Hole
2	Installation Plate
3	Drain Hose Connection
4	Terminal Block for Power Supply Communication
5	Display & Remote Controller Signal Receiver
6	Decoration Cover



**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

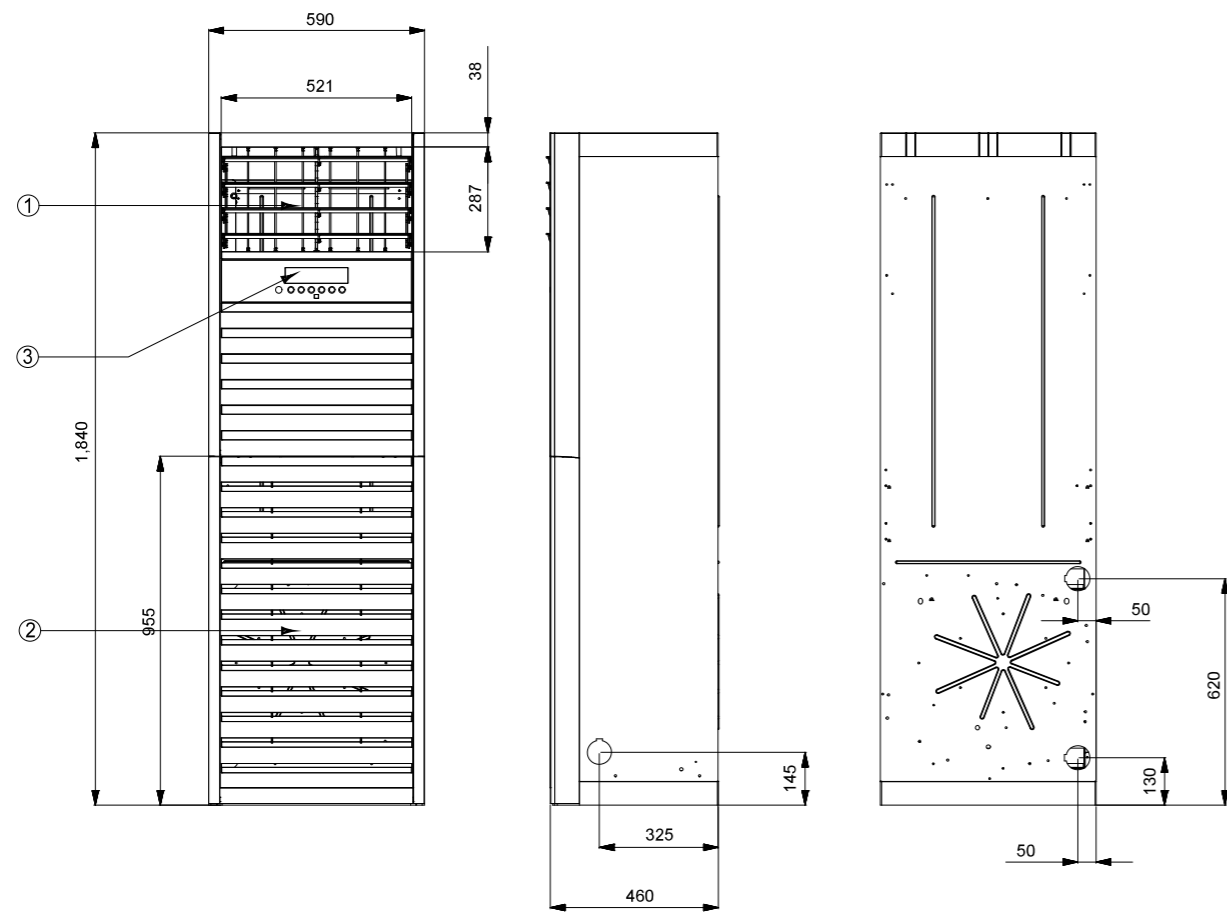


STANDARD INVERTER (R410A)

UP48 NT2

(Unit : mm)

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

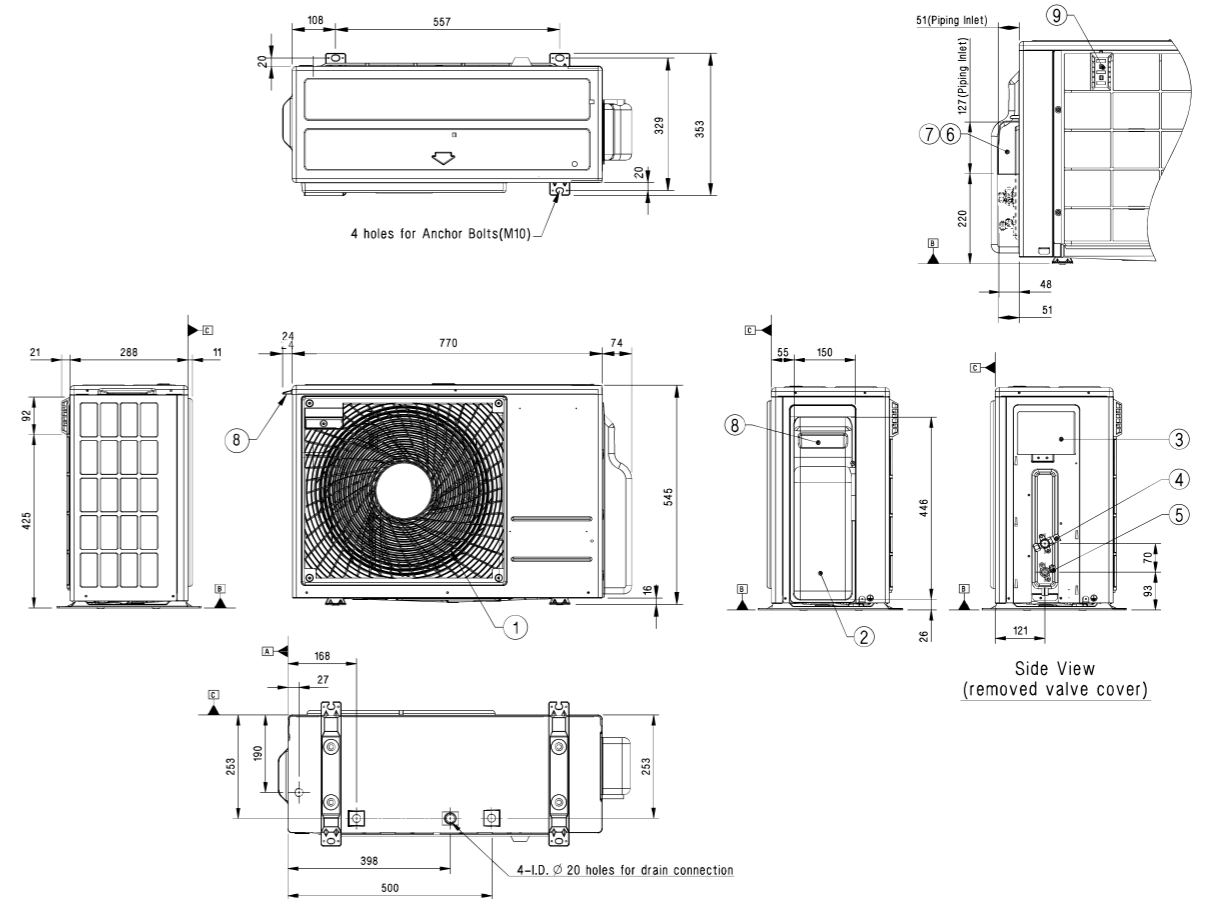
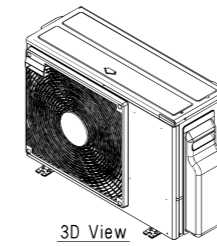


HIGH / STANDARD / COMPACT INVERTER (R32)

UUA1 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



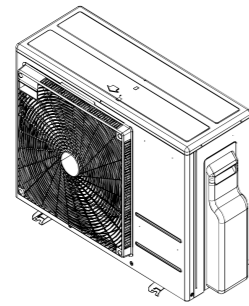


HIGH / STANDARD / COMPACT INVERTER (R32)

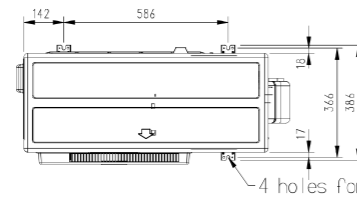
UUB1 U20

(Unit : mm)

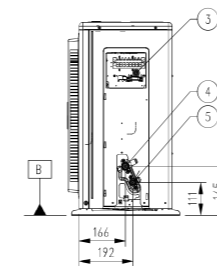
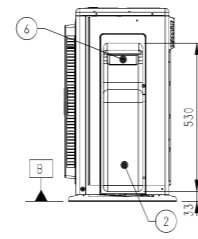
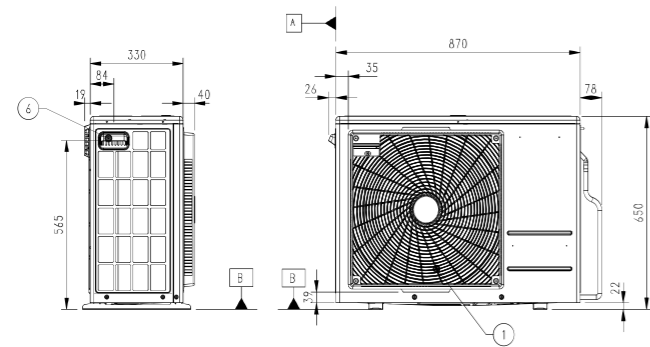
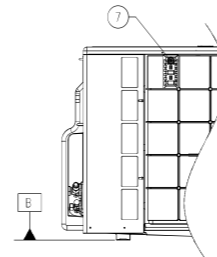
PART NAME	
1	Air Outlet
2	Control Cover & SVC Valve Cover
3	Power and Communication Cable Connection
4	Gas Pipe Connection
5	Liquid Pipe Connection
6	Handle
7	Intake Air Temperature Sensor Cover



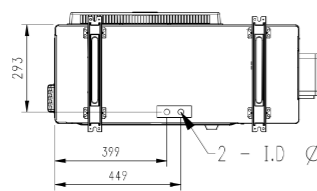
3D View



4 holes for Anchor Bolts(M10)



Side View  
(removed valve cover)



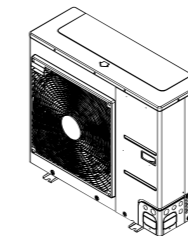
2 - I.D Ø 20 Holes for drain connection

HIGH / STANDARD / COMPACT INVERTER (R32)

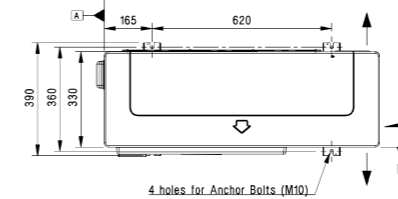
UUC1 U40

(Unit : mm)

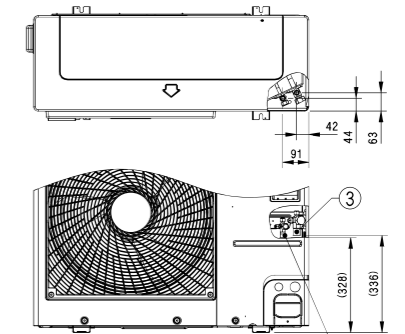
PART NAME	
1	Air Outlet
2	Power and Communication Cable Hole
3	Gas Pipe Connection
4	Liquid Pipe Connection
5	Handle
6	Pipe Routing Hole (Front)
7	Pipe Routing Hole (Side)
8	Pipe Routing Hole (Back)



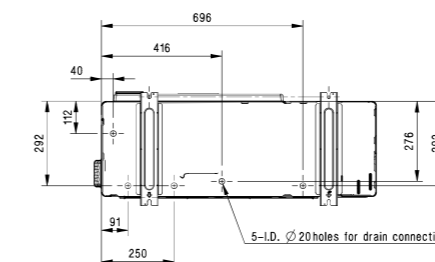
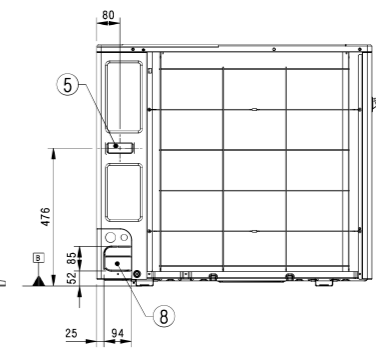
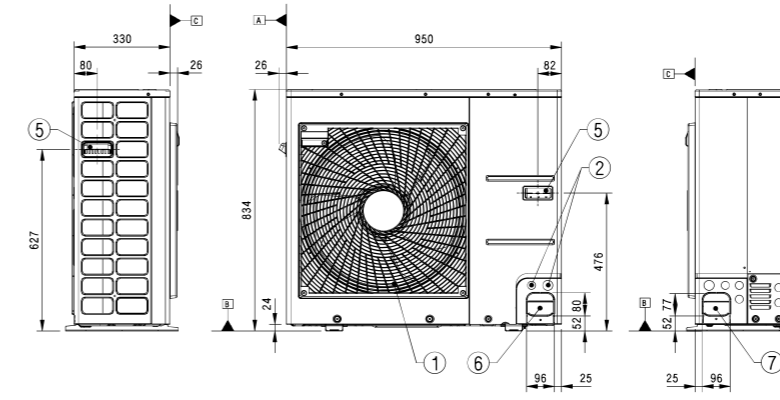
3D View



4 holes for Anchor Bolts (M10)



Piping connection port



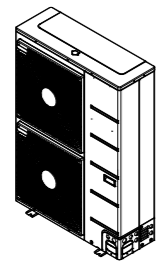
5-I.D. Ø 20 holes for drain connection

STANDARD INVERTER (R32)

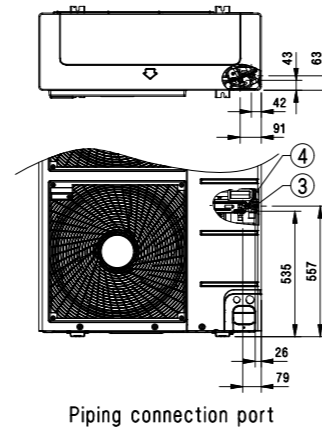
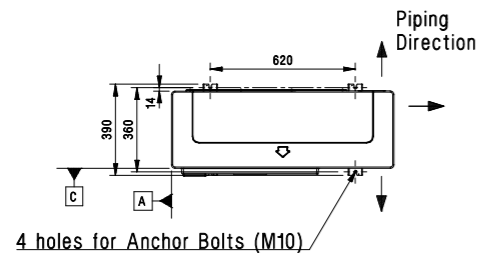
UUD1 U30 / UUD3 U30

(Unit : mm)

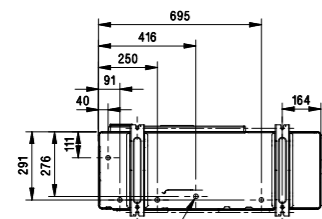
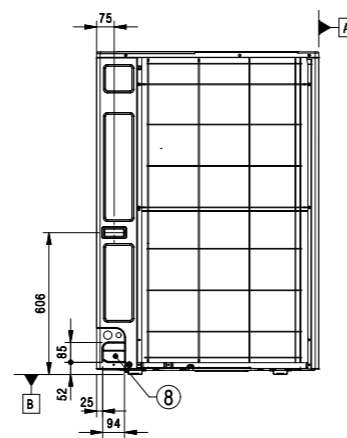
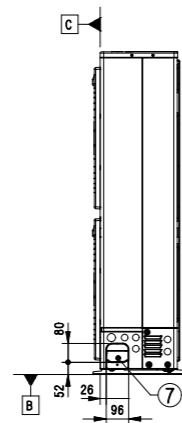
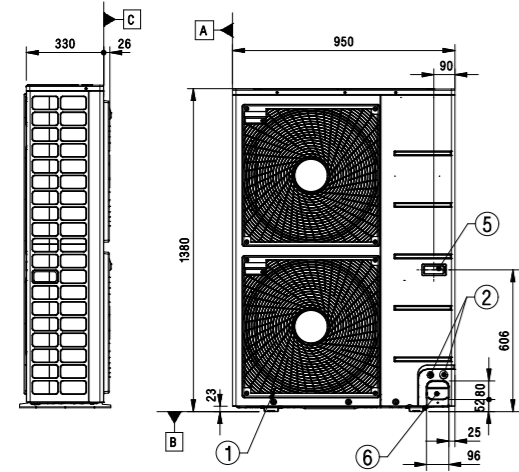
PART NAME
1 Air Outlet
2 Power and Communication Cable Hole
3 Gas Pipe Connection
4 Liquid Pipe Connection
5 Handle
6 Pipe Routing Hole (Front)
7 Pipe Routing Hole (Side)
8 Pipe Routing Hole (Back)



3D View



Piping connection port



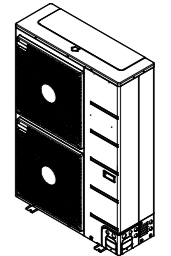
5-LD,  $\varnothing 20$  holes for drain connection

STANDARD INVERTER (R410A)

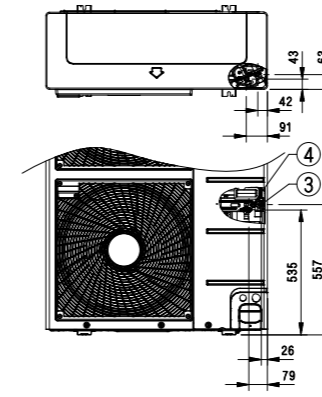
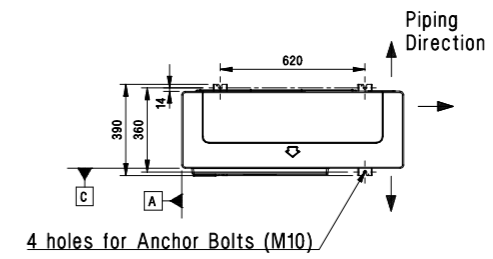
UU48W U32 / UU49W U32

(Unit : mm)

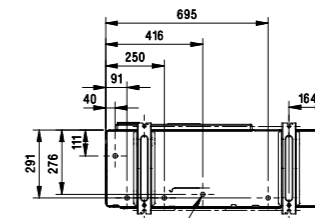
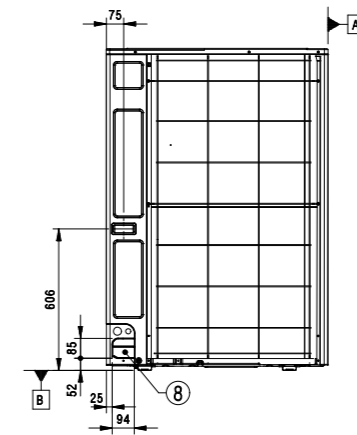
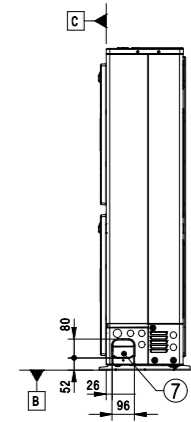
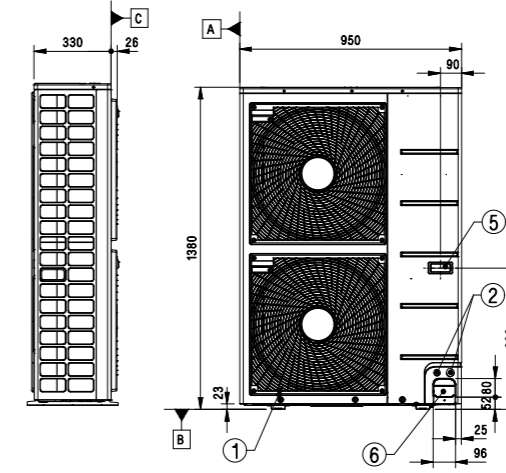
PART NAME
1 Air Outlet
2 Power and Communication Cable Hole
3 Gas Pipe Connection
4 Liquid Pipe Connection
5 Handle
6 Pipe Routing Hole (Front)
7 Pipe Routing Hole (Side)
8 Pipe Routing Hole (Back)



3D View



Piping connection port



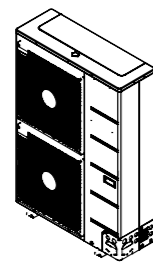
5-LD,  $\varnothing 20$  holes for drain connection

STANDARD INVERTER (R410A)

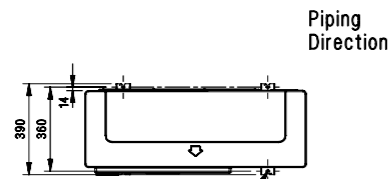
UU70W U34

(Unit : mm)

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

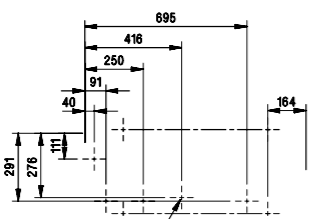
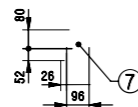
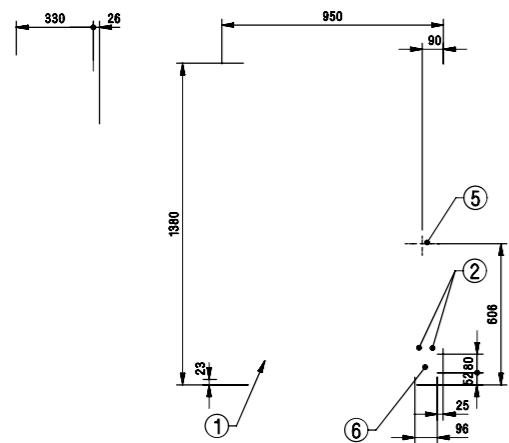


3D View

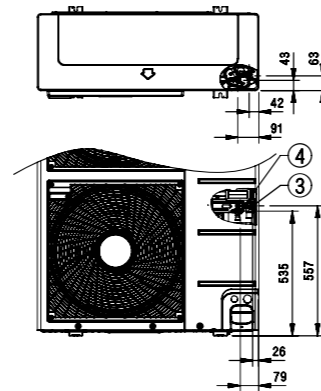


Piping Direction

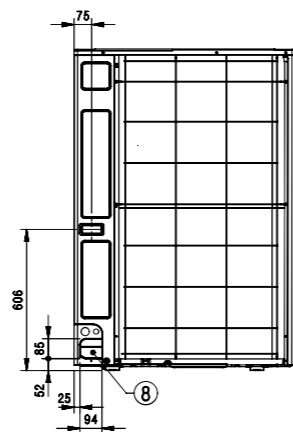
4 holes for Anchor Bolts (M10)



5-ID.  $\varnothing 20$  holes for drain connection



Piping connection port

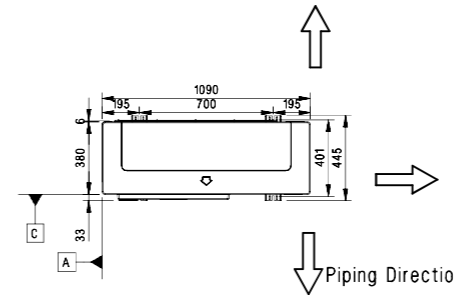
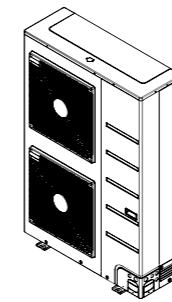


STANDARD INVERTER (R410A)

UU85W U74

(Unit : mm)

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



Piping Direction

