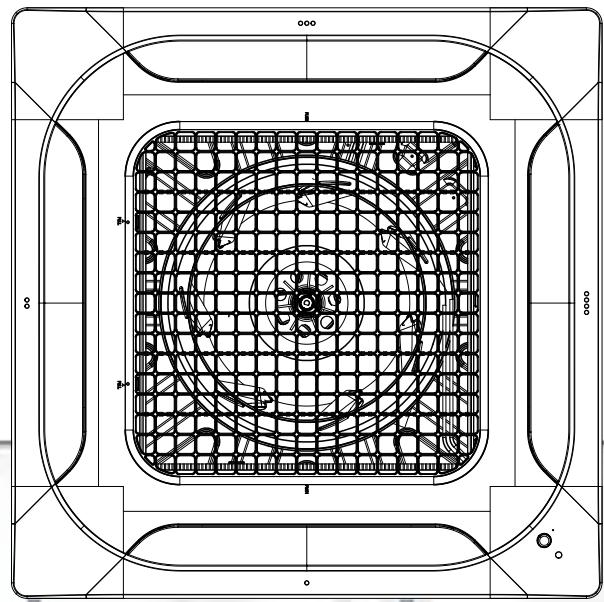


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# COMMERCIAL

SINGLE SPLIT





**H-INVERTER (R32)****STANDARD INVERTER (R32)**

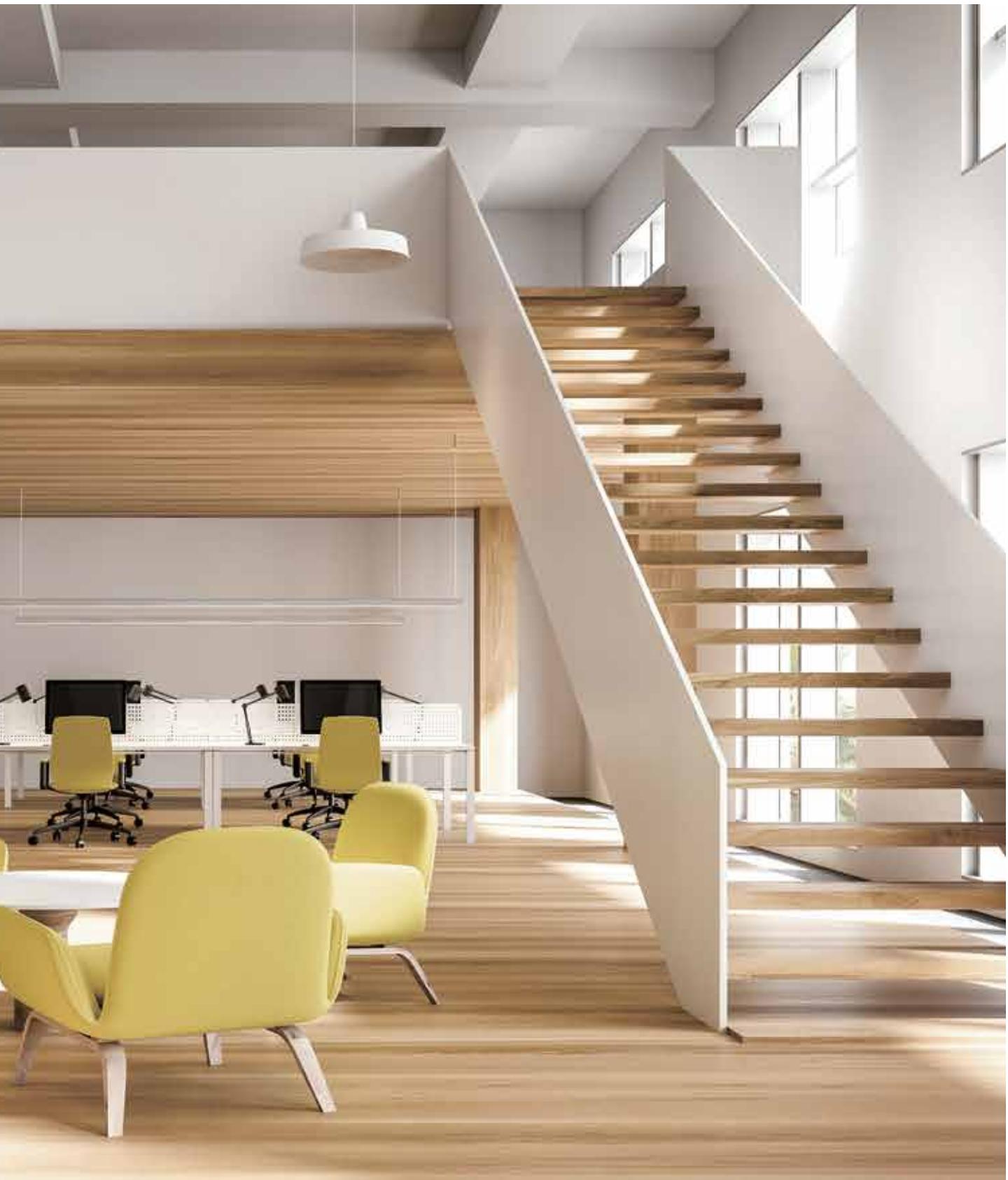
kBtu/h kW	Type	Ceiling Mounted Cassette	H-INVERTER (R32)					STANDARD INVERTER (R32)									
			Ceiling Concealed Duct		Ceiling Suspended	ODU		Ceiling Mounted Cassette	Round Cassette	Ceiling Concealed Duct		Ceiling Suspended	Wall Mounted	Console	ODU		
			Mid Static	Low Static		1Ø	3Ø			Mid Static	Low Static				1Ø	3Ø	
9	2.5	UT09FH NQ0						CT09F NRO		CL09F N50		MJ09PC NSJ	UQ09F NA0		UUA1 ULO		
12	3.4	UT12FH NQ0	UM12FH N10	UL12FH N50				CT12F NRO		CL12F N50		MJ12PC NSJ	UQ12F NA0		UUA1 ULO		
18	5.0	UT18FH NBO	UM18FH N10	UL18FH N30	UV18FH N10	UUB1 U20		CT18F NQ0		CM18F N10	CL18F N60	UV18F N10	MJ18PC NSK	UQ18F NA0	UUB1 U20		
24	6.8	UT24FH NA0	UM24FH N20		UV24FH N20		UUC1 U40	CT24F NBO		CM24F N10	CL24F N30	UV24F N10	MJ24PC NSK			UUC1 U40	
30	8.0	UT30FH NA0	UM30FH N20		UV30FH N20		UUC1 U40	UT30F NBO		UM30F N10		UV30F N10	US30F NRO			UUC1 U40	
36	9.5	UT36FH NA0	UM36FH N30		UV36FH N20			UT36F NA0	UT36F NYO	UM36F N20		UV36F N20	US36F NRO				
42	12.0	UT42FH NA0	UM42FH N30		UV42FH N20		UU1 U30	UT42F NA0		UM42F N20		UV42F N20				UU1 U30	UU3 U30
48	13.4	UT48FH NA0	UM48FH N30				UU1 U30	UT48F NA0	UT48F NYO	UM48F N30		UV48F N20				UU1 U30	UU3 U30
60	14.6	UT60FH NA0						UT60F NA0		UM60F N30		UV60F N20					
70	20.0																
85	25.0																

**COMPACT INVERTER (R32)****STANDARD INVERTER (R410A)**

kBtu/h kW	Type	Ceiling Mounted Cassette	COMPACT INVERTER (R32)				STANDARD INVERTER (R410A)				
			Ceiling Concealed Duct		Ceiling Suspended	Wall Mounted	ODU	Ceiling Concealed Duct (High Static)	Floor Standing	ODU	
			Mid Static	Low Static			1Ø			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





# FEATURE OVERVIEW

CATEGORY		H-INVERTER (R32)								
kBtu/h	9	12	18	24	30	36	42	48	60	
kW	2.5	3.4	5.0	6.8	8.0	9.5	12.0	13.4	14.6	
Supreme Energy Efficiency	BLDC Comp & Fan Motor	●	●	●	●	●	●	●	●	●
	Eurovent Certi.	●	●	●	●	●	●	●	●	●
	High Level SEER / SCOP	●	●	●	●	●	●	●	●	●
	Variable Voltage Control	●	●	●	●	●	●	●	●	●
	Wide Louver Fin	●	●	●	●	●	●	●	●	●
	Optimised Heat Exchanger Path		●	●	●	●	●	●	●	●
	Power Saving Start up	●	●	●	●	●	●	●	●	●
	Peak Current Control		●	●	●	●	●	●	●	●
	Mode Lock	●*	●*	●	●	●	●	●	●	●
Comfort Environment	Standby Mode	●	●	●	●	●	●	●	●	●
	Comfort Cooling with Humidity sensor**		●	●	●	●	●	●	●	●
	Night Silent Operation		●	●	●	●	●	●	●	●
High Performance & Reliability	Continuous Cooling Operation	●	●	●	●	●	●	●	●	●
	Quick & Reliable Operation	●	●	●	●	●	●	●	●	●
	R1 Compressor					●	●	●	●	●
	Corrosion Resistance Black Fin	●	●	●	●	●	●	●	●	●
Convenient Control System	Long Pipe Installation	●	●	●	●	●	●	●	●	●
	LG ThinQ***	●	●	●	●	●	●	●	●	●
	Easy Control (PI-485 Connection)	●	●	●	●	●	●	●	●	●
	1 Point External Input****	●	●	●	●	●	●	●	●	●
	Forced Cooling Operation		●	●	●	●	●	●	●	●
	Mobile LG MV	●	●	●	●	●	●	●	●	●
Enhanced Application	Weekly Program*****	●	●	●	●	●	●	●	●	●
	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(PWFMD200) and it should be connected to the indoor unit.

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

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

# FEATURE OVERVIEW

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

\* With controller PREMTB001 / PREMTBB01 / PREMTB100 / PREMTBB10

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

\*\*\* Available with LG Wi-Fi modem(PWFMD200) 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>	<b>Wide Application</b>	<b>Compact Size</b>
 	 	 
(13 sets)	(12 sets)	(4 sets)
(7 sets)	(15 sets)	(6 sets)
	(13 sets)	(4 sets)
	(4 sets)	(2 sets)
	(3 sets)	(7 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> SEER 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 *	 UUA1	 UUB1	 UUC1	 UUD1/3					
<b>STANDARD INVERTER (R32)</b> SEER 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)*	 UUA1	 UUB1	 UUC1	 UUD1/3					
<b>COMPACT INVERTER (R32)</b> SEER 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)*		 UUA1	 UUB1	 UUC1					

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

# WHY LG SINGLE SPLIT

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



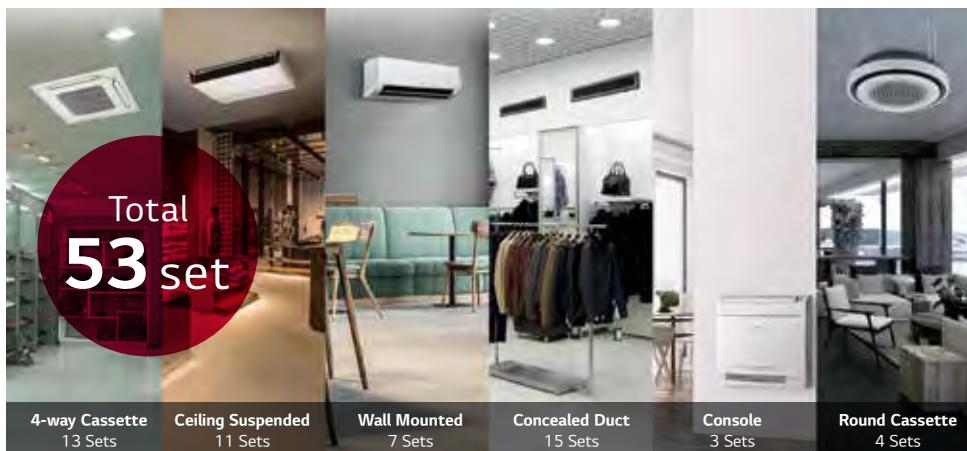
Energy Saving  
SEER class : A+++ ~ A++

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



Flexible Installation  
Max. pipe length up to 85m\*

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

Energy Saving  
SEER class : A++ ~ A+

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

## Compact : Maximize Space Utilization with Compact Size



Compact Size  
Smaller Outdoor Unit

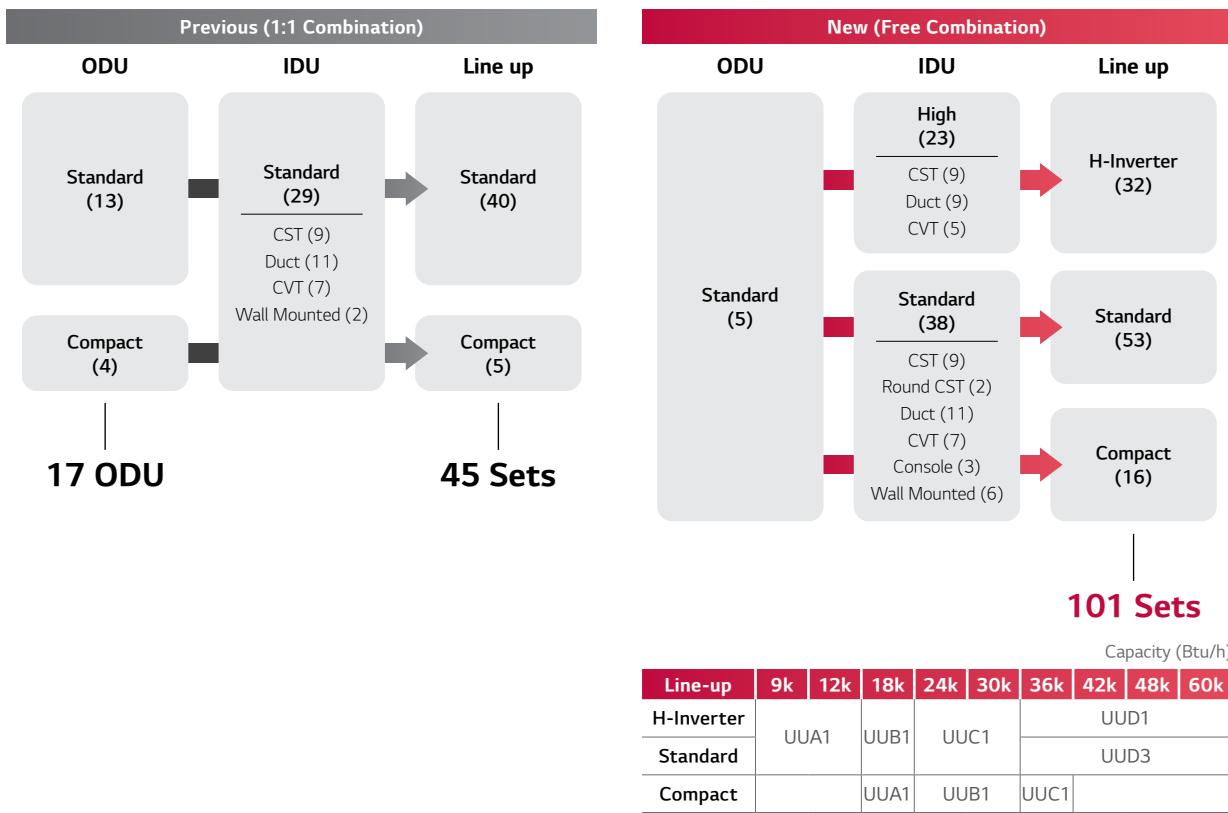
Energy Saving  
SEER class : A++ ~ A

Flexible Installation  
Max. pipe length up to 50m\*

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

# Free Combination

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



## Differentiated Specification

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

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

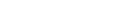
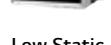
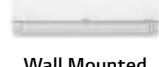
\* Based on internal test data for 6.8kW model. (compared to 19Y standard model)

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

# WHY LG SINGLE SPLIT

## Expanded Product Type

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

kW		Type	2.5	3.4	5	6.8	8	9.5	12	13.4	14.6	
kBtu/h		Type	9	12	18	24	30	36	42	48	60	
Outdoor Units		●		UUA1	UUB1	UUC1			UUD1	UUD3		
		●			UUA1	UUB1	UUC1					
Single Split		●	●	●	●	●	●	●	●	●	●	
		●	●	●	●	●	●	●	●	●	●	
		●			●	●	●	●				
		●						●		●		
Ceiling Concealed Duct		●			●	●	●	●	●	●		
		●				●	●	●	●	●		
		●				●	●	●				
Ceiling Suspended		●			●	●	●	●	●			
		●				●	●	●	●	●		
		●				●	●	●				
		●	●	●	●							
		●	●	●	●	●	●	●	●			
		●					●	●				

● H-Inverter / ● Standard / ● Compact

## Premium Solution for Retail Ceiling Cassette



### Maximizing Business, Minimizing Cost

#### Premium Design & Customer Oriented Functions

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

#### Energy Savings

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

#### Ease of Operation and Maintenance

- Convenient control via smartphone
- Intuitive wired remote controller

## 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

# WHERE DO YOU USE IT

## 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



## 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



# SUPREME ENERGY EFFICIENCY

## SEER / SCOP

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



### SEER / SCOP class

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

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

### European Energy Labeling

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

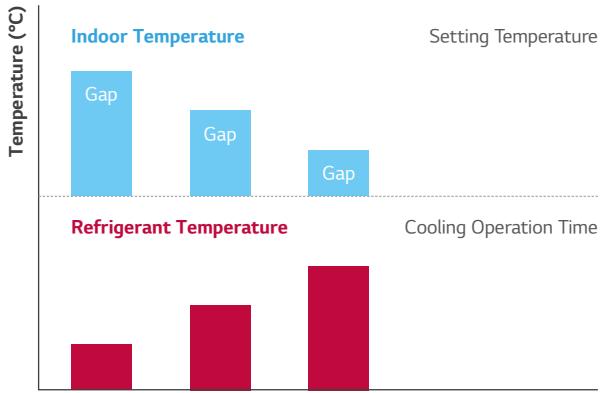
※ Based on Ceiling Cassette (6.8 kW)

# SUPREME ENERGY EFFICIENCY

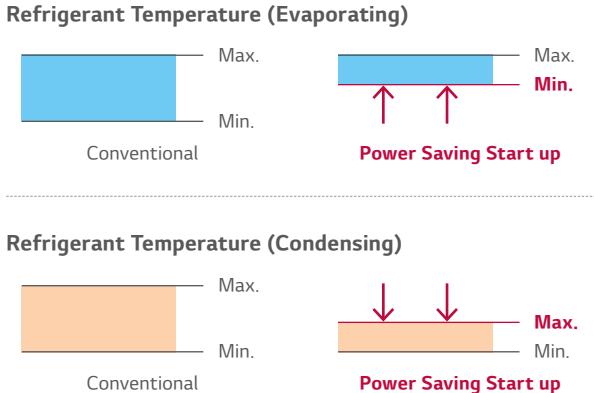
## Energy Savings

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

### Comfortable Indoor Air

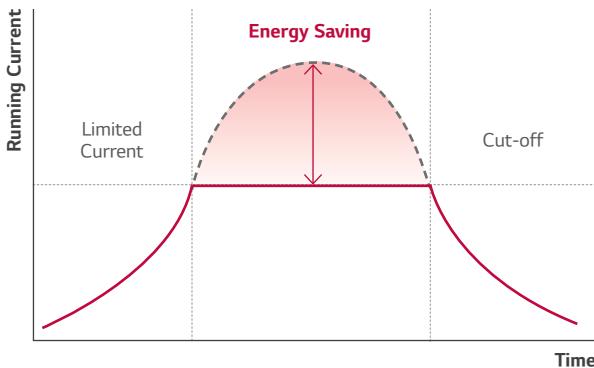


### Energy Saving



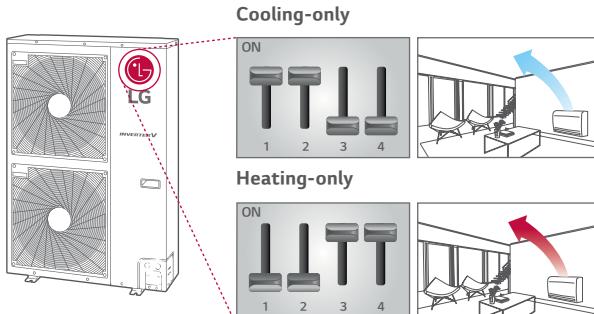
## Peak Current Control

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



## Mode Lock

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



# COMFORTABLE ENVIRONMENT

## Comfort with Temperature & Humidity Sensors

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



DUAL  
SENSING  
CONTROL

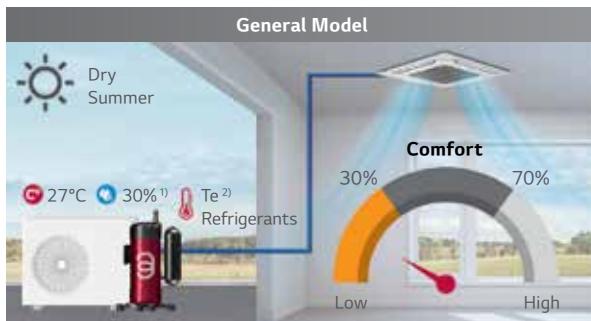
By sensing both temperature and humidity, this feature helps avoid over-cooling and dehumidification, maximizing comfort



※ 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**

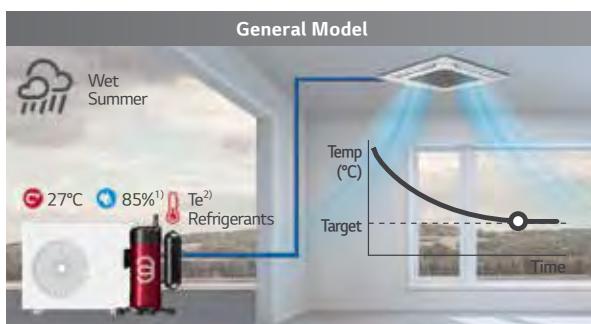
By making the room less dry

- **Increased Energy Efficiency**

Provide optimized cooling and save energy considering humidity

### Wet Summer

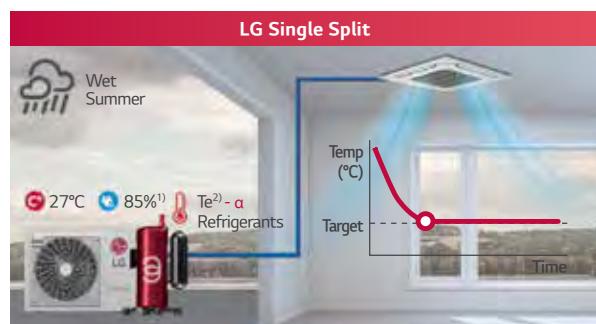
During a wet summer season, the system senses the high humidity levels and increases the operating ratio to rapidly decrease humidity for a more comfortable indoor environment.



- **Uncomfortable Environment**

General latent heat elimination regardless of humidity

1) Indoor Condition 2) Evaporation Temperature



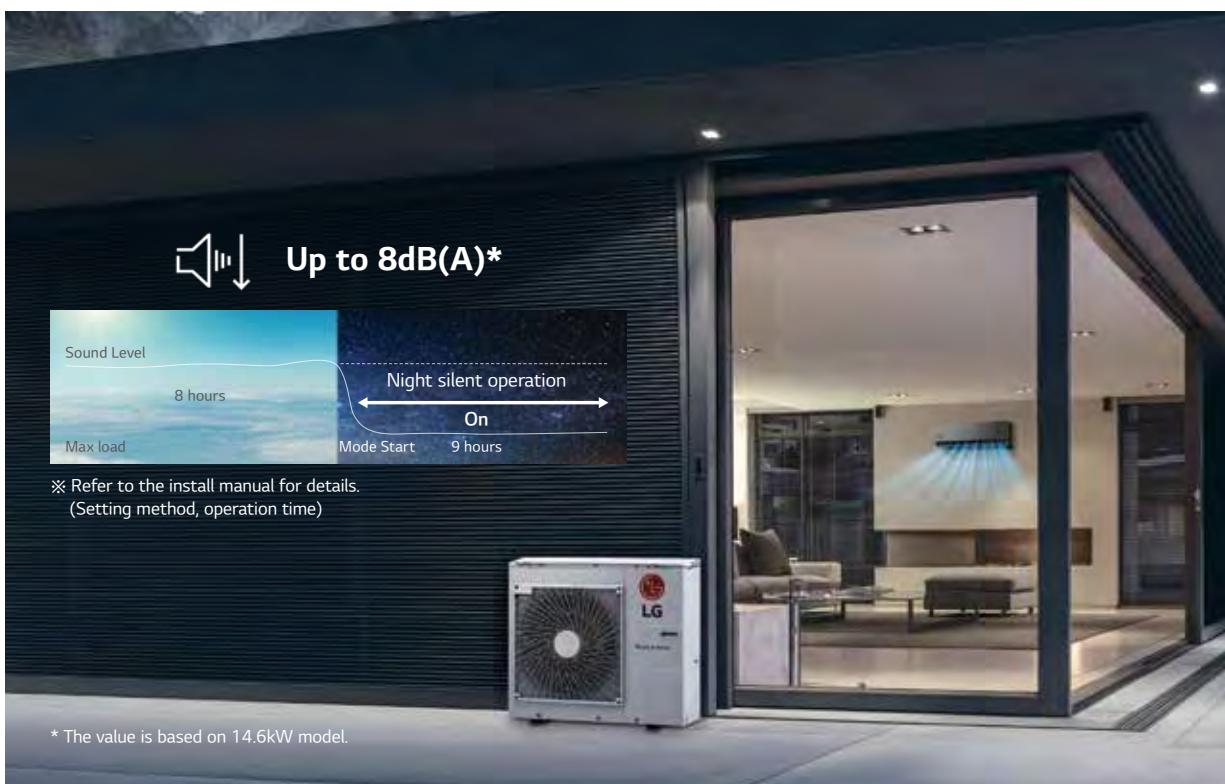
- **Comfortable Environment**

Quick latent heat elimination with humidity sensors

# COMFORTABLE ENVIRONMENT

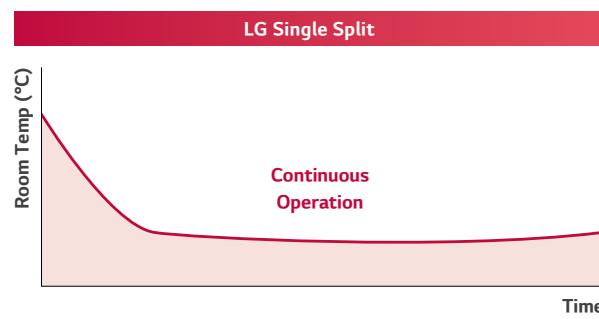
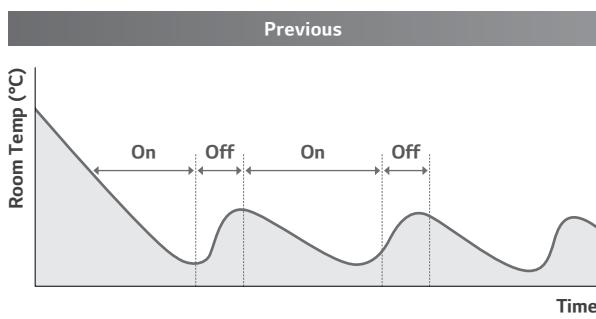
## Night Silent Operation

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



## Continuous Cooling Operation

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



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

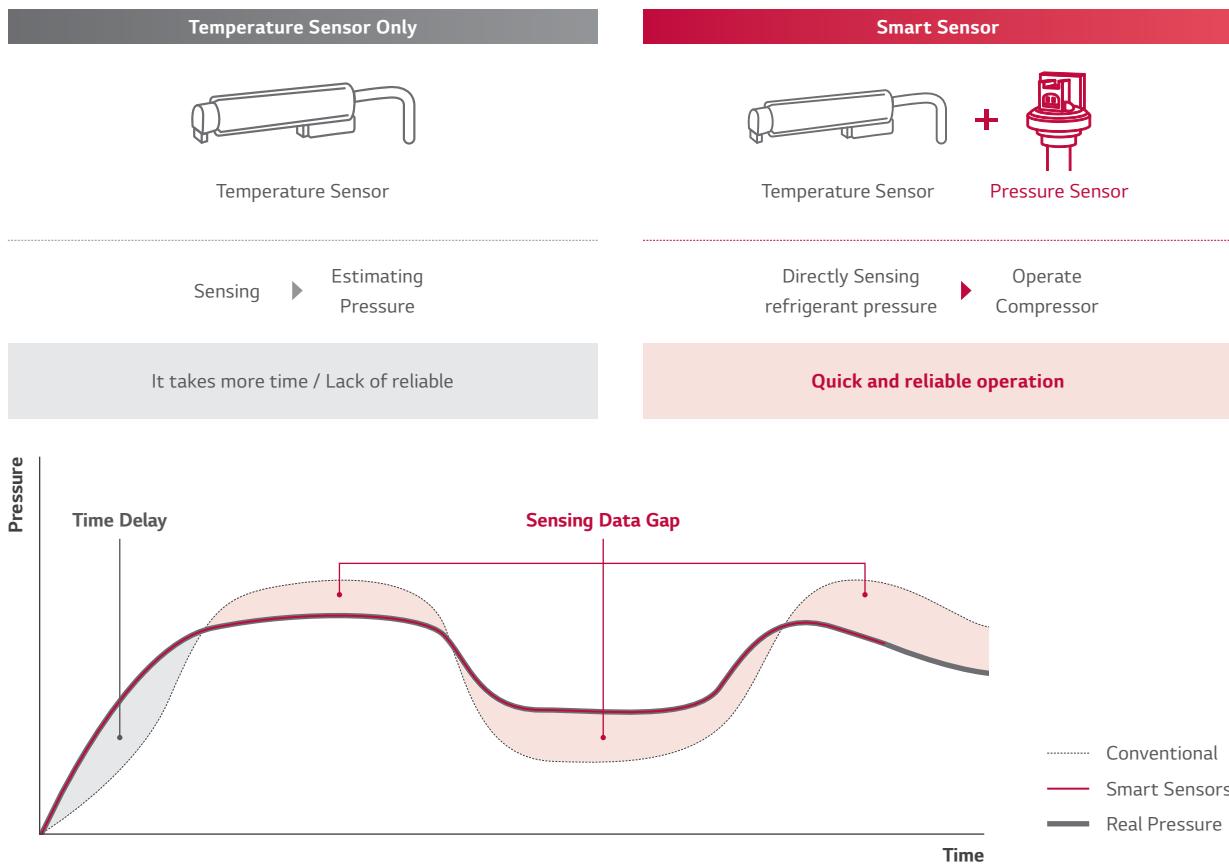


※ Based on a stand 36k model. (after 2019)

## Quick & Reliable Operation

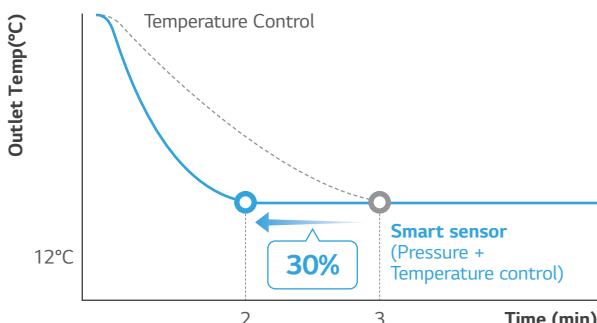
Through pressure and temperature sensing, the desired indoor temperature can be reached more rapidly.

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



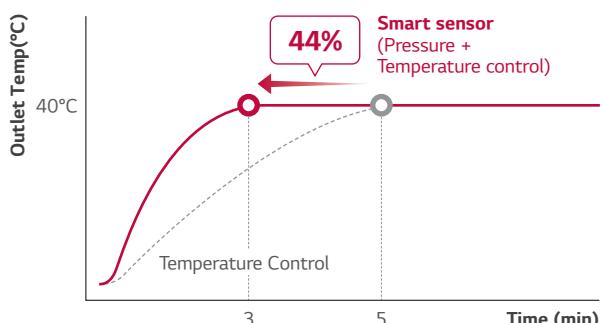
- With pressure sensing, the desired temperature is achieved in 30% less time in cooling and 44% in heating.

### Cooling



※ Based on internal test data.

### Heating



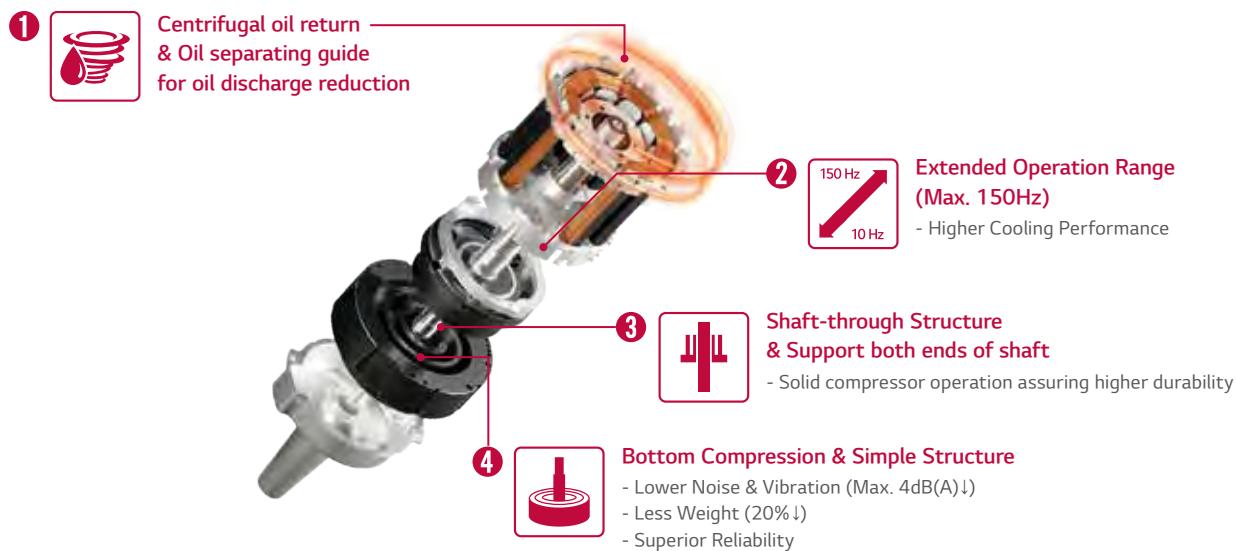
※ Based on internal test data.

# HIGH PERFORMANCE & RELIABILITY

COMMERCIAL  
SINGLE SPLIT

## R1 Compressor™

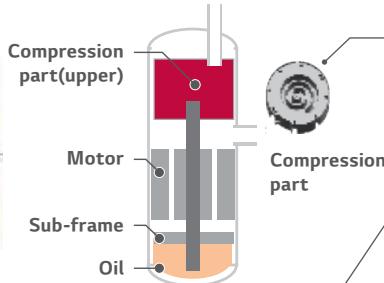
R1 Compressor is one that combines high-efficiency, low sound characteristics of the scroll and the simple compressing structure of the rotary compressor. This technology enables a highly efficient compact model.



### Conventional Compressor

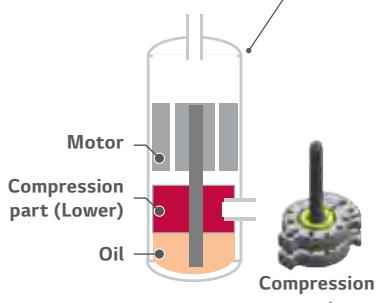
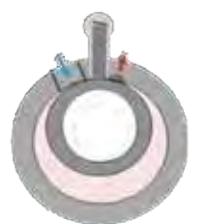
#### Scroll

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



#### Rotary

: Simple structure (Compression per 1 rotation)



### R1 Compressor™

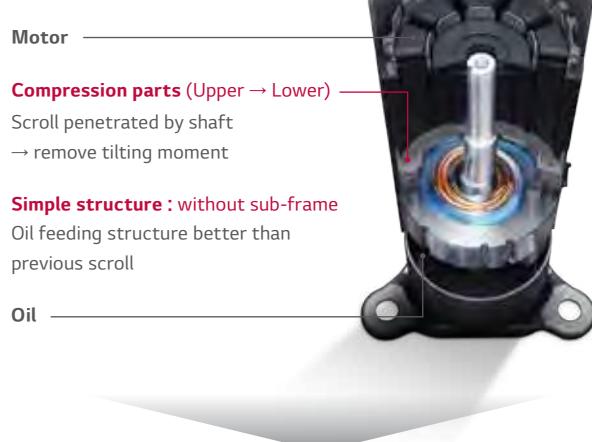
#### Revolutionary Scroll

High efficiency / Stable & Simple Structure



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

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

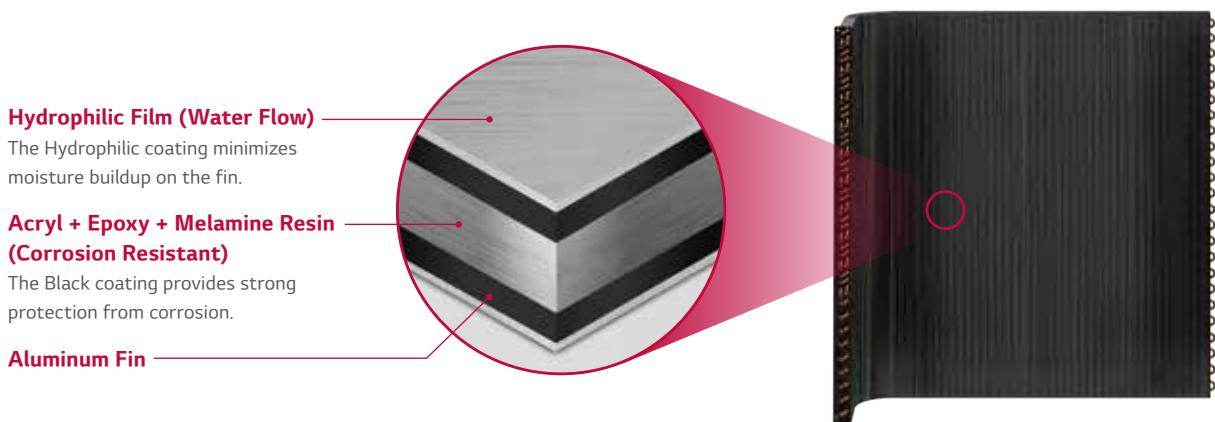


Extended operation (Max. 150Hz)  
Low noise & Vibration (Max. 4dB(A)↓)  
Less weight (20%↓)

## 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



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

### SST (Salt Spray Test)

#### Test Process



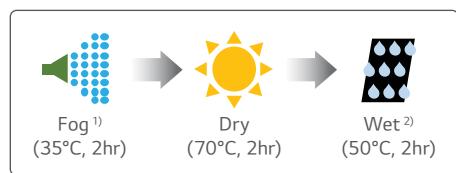
X Process Repeated

Test process is conducted according to ISO 9227.

1) Salty water concentration : NaCl aqueous solution (5%)

### CCT (Cyclic Corrosion Test)

#### Test Process



X Process Repeated

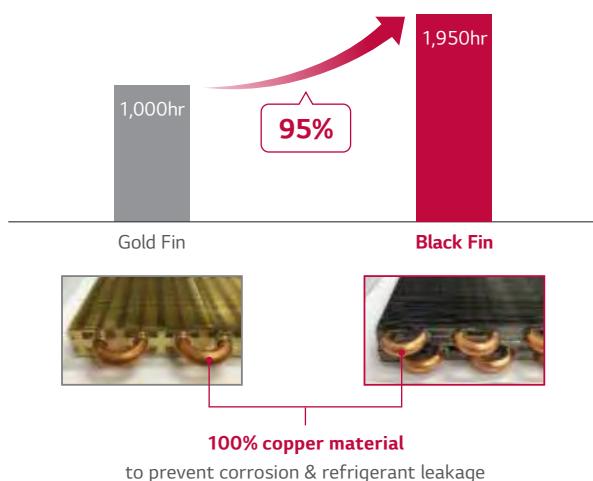
Test process is conducted according to ISO 14933.

1) Salty water concentration : NaCl aqueous solution (5%)

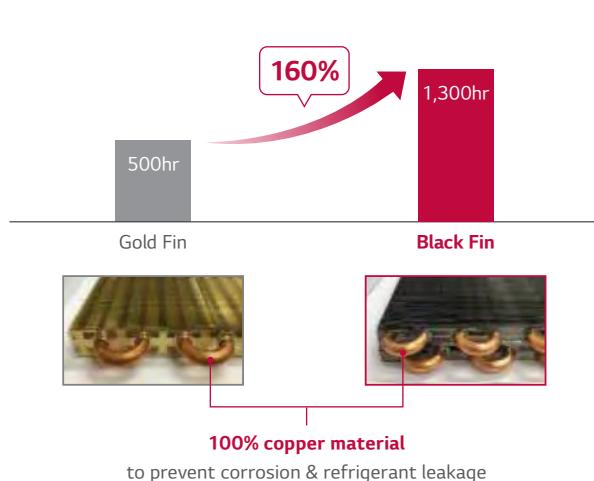
※ Dry condition changed : 60°C, 4hr → 70°C, 2hr

2) Deionized water

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



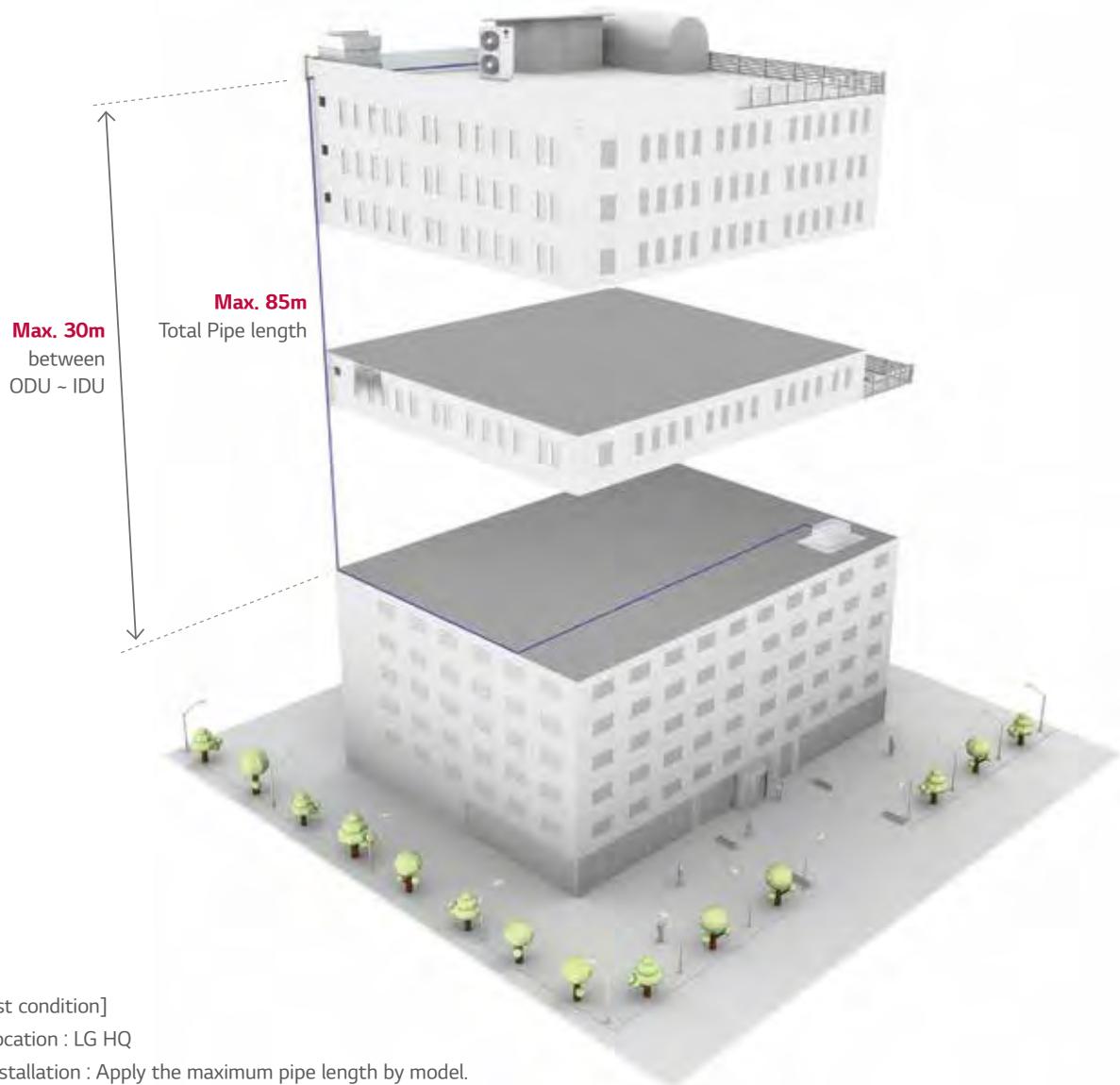
### Test Result (5% Area of defects compared to initial)



# HIGH PERFORMANCE & RELIABILITY

## 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

# CONVENIENT CONTROL SYSTEM

## LG ThinQ™

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



※ Search "LG ThinQ" on Google or Apple store then download the app.

※ Wi-Fi modem (PWFMD200) is required by option.

Access your air conditioner anytime and from anywhere



Simple operation for various functions

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

\* This functions are used by google assistant

※ In some countries, the use of the google assistant system may be restricted.

- Launched country : Germany, UK, Ireland, Austria, Switzerland, France, Spain, Italy, Russia, Norway, Netherlands, Portugal, Turkey, Sweden, Denmark

## Easy Control (Central Controller)

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



# CONVENIENT CONTROL SYSTEM

## 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.

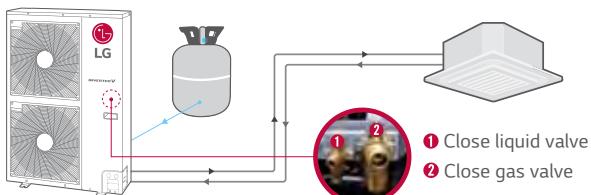
Connection between an indoor unit and external devices directly



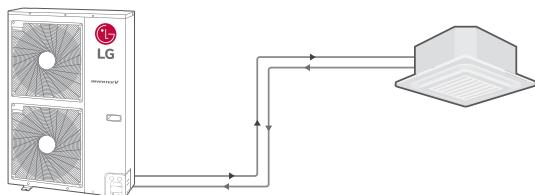
## Forced Cooling Operation

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



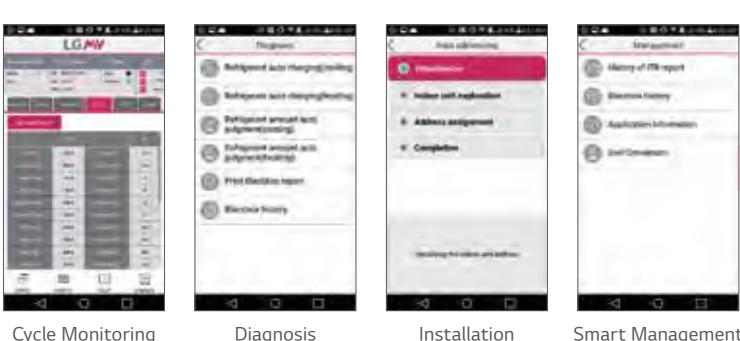
## Mobile LGMV

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
	⋮

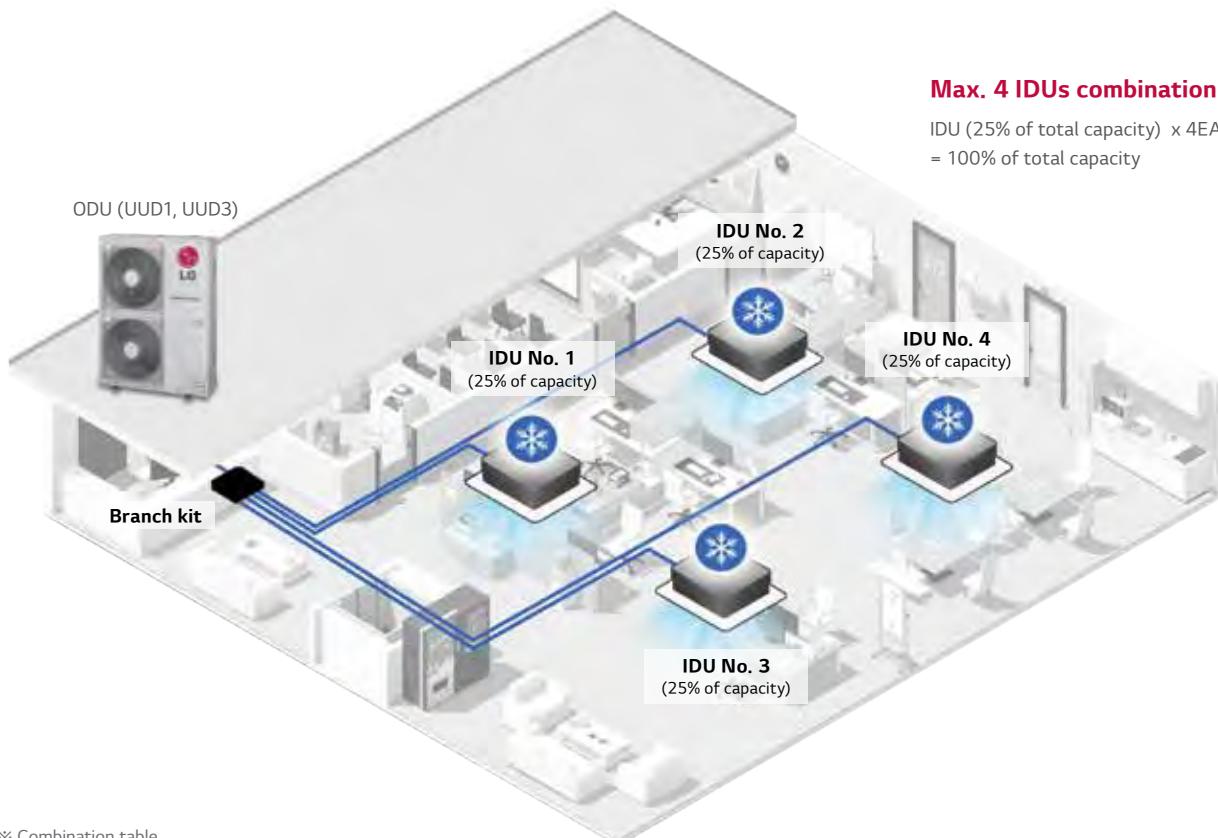


A technician not only can check the cycle information with diagrams & graph, but also check easily the error status (Troubleshooting guide) and take action immediately.

※ 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
UUUD1, 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									

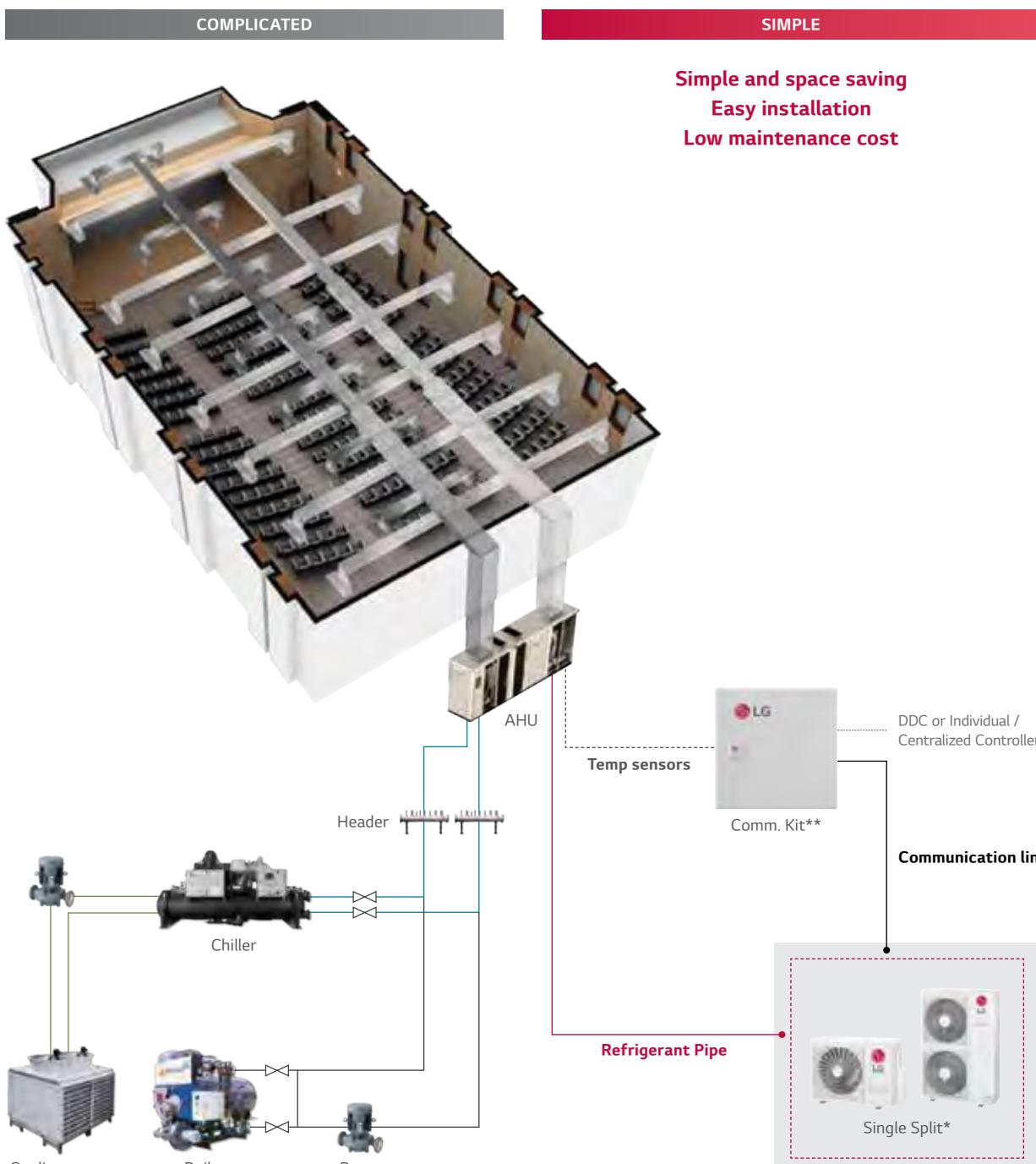
### Note

- 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.

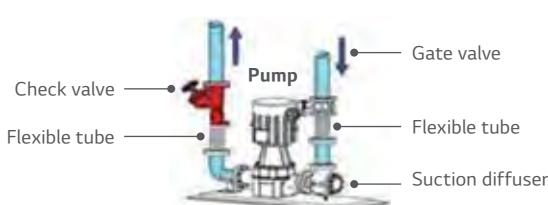
# ENHANCED APPLICATION

## Connection with AHU

Single split can be connected to AHU using communication kit.



### 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



# NEW DESIGN

## 4 Way air flow with new dual vane design

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



4 Way  
Dual Vane

## 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



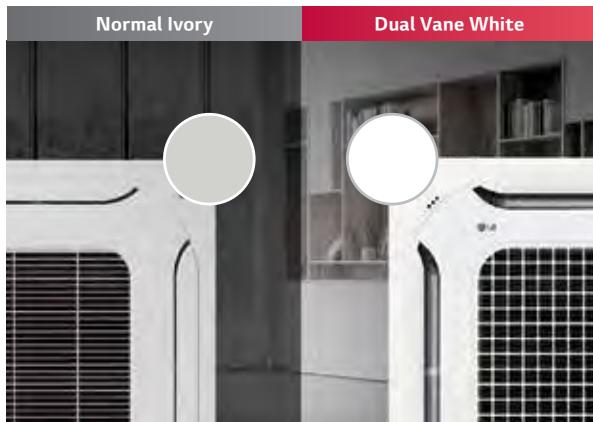
**Direct Wind**  
Suitable for High Ceiling



**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.



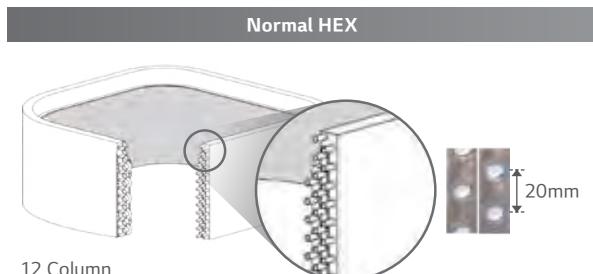
## Full 3D Turbo Fan

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.



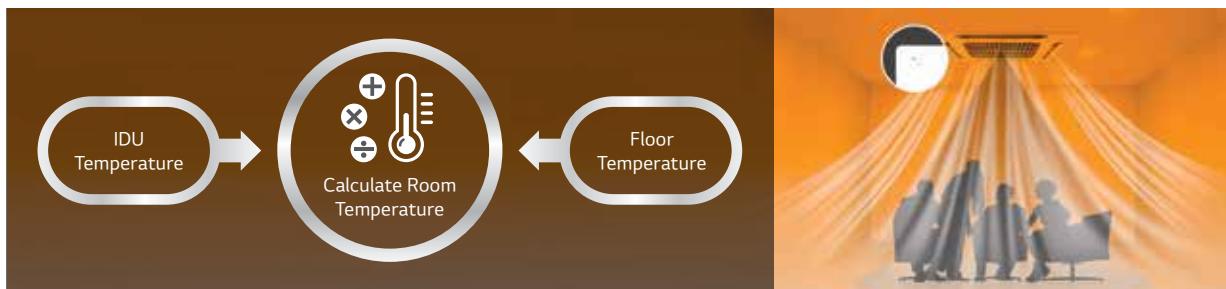
Tube Column	12 Column
Fin per Inch	21

Tube Column	18 Column
Fin per Inch	22

※ This specification can be different as per each model.

# Sensor reads temperature from ceiling to floor for heating

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



※ Available only for products with floor temperature sensor.

## Human detecting Direct / Indirect airflow

Human sensing function finds users to provide their favorite airflow.

### Comfort Indirect

Prevent airflow to heading to user by sensing.



### Follow user Direct

Prefer air flow to heading to user by sensing.

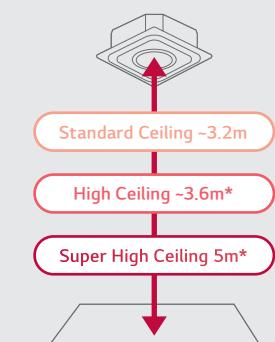


## Direct Wind

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



Recommended direct wind reach

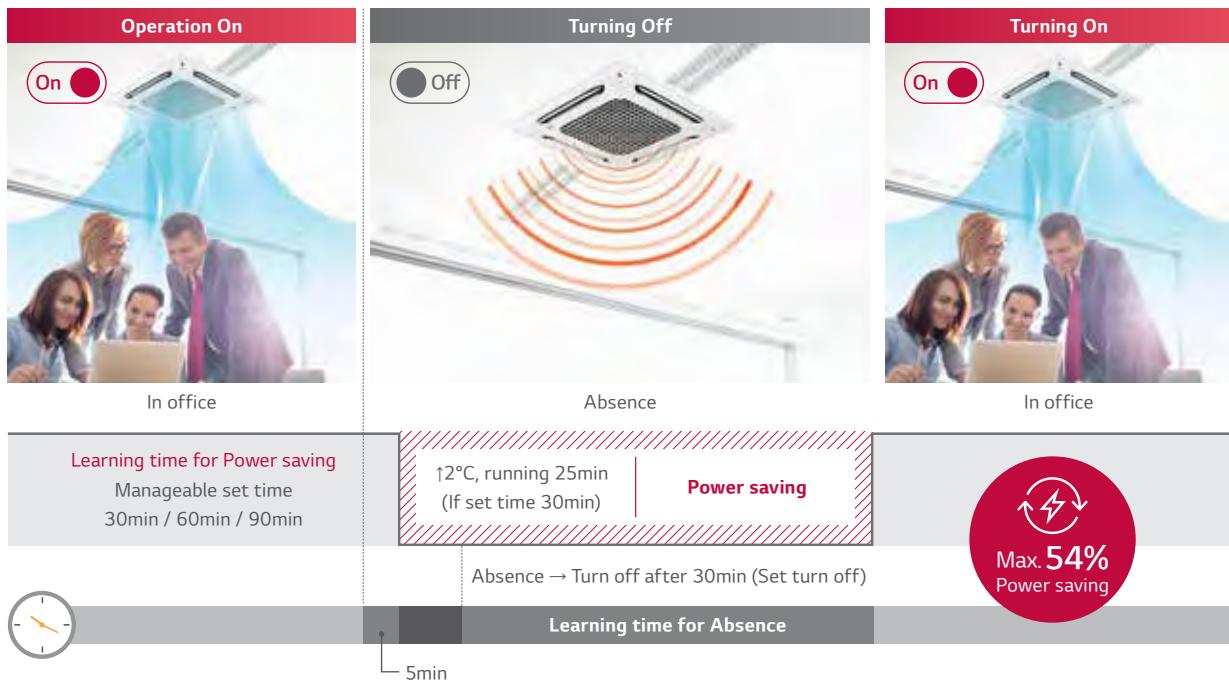


\* Settings are required in installer mode.

**SMART**

# Human detecting On / Off Learning operation system

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



※ Smart Dual Vane Indoor Unit '19 Line up.  
※ Data Based on actual test of LG, single product 2 hours measurement result. (Cooling 26 °C, strong wind)

## Various Display of Air Purification

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

### Smart indicator

Shows quality of Indoor air in real time



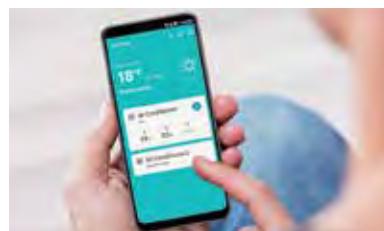
### Remote controller

Display Air status and Fine Dust Concentration



### Mobile

Whenever & Wherever  
Check and Control Air status



## Pairing LG ThinQ

Anywhere! Anytime! Can connect to IDU with LG ThinQ

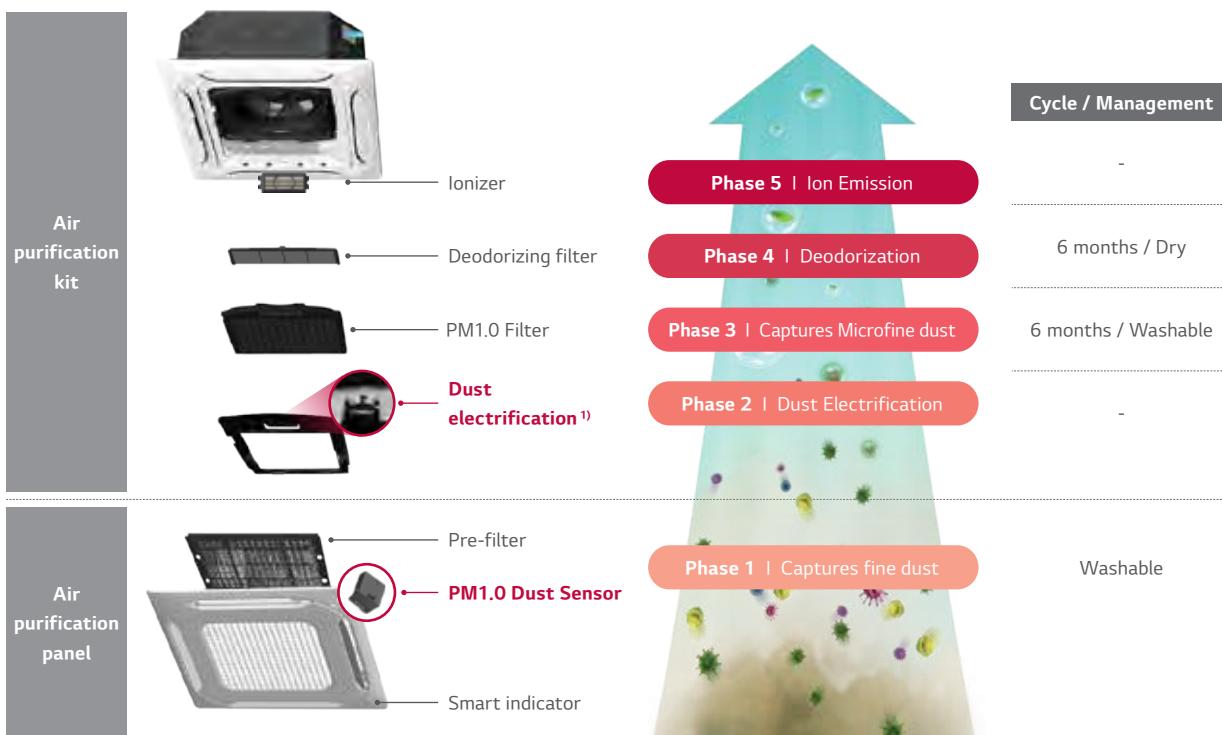
- ① Monitoring Air status : Easy to check indoor air status
  - Microfine dust / Ultra fine dust / Fine dust
  - Day / Week / Month / Yearly
- ② Mobile Remote Control : Remote control by using mobile phone
  - Control Mode / Temperature / Air flow etc.
- ③ Display Power Consumption : Check power consumption of A/C
  - Check energy display
  - Set target energy consumption level



# SMART

## Convenient and Powerful Air purification

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



1) Electrical diffusion makes dust electrification.

### CAC certification?

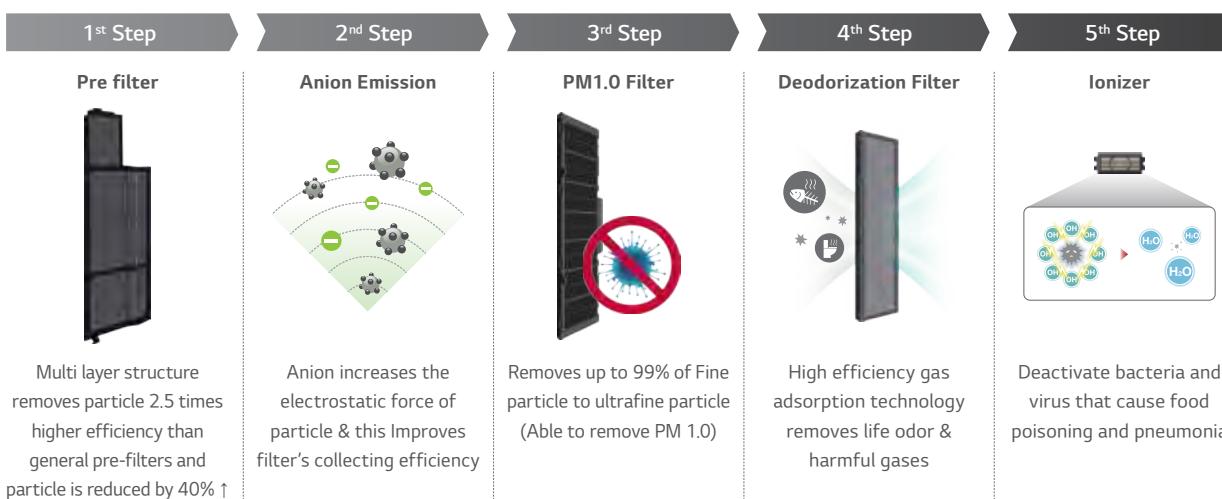
The Korea Air Cleaning Association strictly tests the air cleaning function of air conditioner products and provide certification to the product that give credibility to consumers.



The Korea Air Cleaning Association  
CAC

## Air Purification Technology

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



# CEILING MOUNTED CASSETTE

## H-INVERTER (R32)

UT09FH / UT12FH / UT18FH

UUA1 ULO    UUB1 U20



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

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)
Operation Range (Outdoor)	Connections Method	-	Flared	Flared	Flared
	Cooling	Min. / Max. °C	-15 / 50	-15 / 50	-15 / 50
	Heating	Min. / Max. °C	-20 / 18	-20 / 18	-20 / 18
INDOOR			UT09FH NQ0	UT12FH NQ0	UT18FH NBO
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	30 / 26 / 22	30 / 26 / 22	33 / 26 / 22
Air Flow Rate	H / M / L	m³/min	11.0 / 10.0 / 9.3	11.0 / 10.0 / 9.3	17.0 / 15.5 / 14.0
Dimensions	Body	W x H x D mm	570 x 256 x 570	570 x 256 x 570	840 x 204 x 840
Weight	Body	kg	13.9	13.9	21.1
Sound Pressure Level	Cooling	H / M / L dB(A)	41 / 39 / 37	41 / 39 / 37	37 / 36 / 34
Sound Power Level	Cooling	Max. dB(A)	54	54	52
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
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	kg	3.0	3.0	7.5
OUTDOOR			UUA1 ULO	UUB1 U20	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker	Min.	A	15	20	
Power Supply Cable (Included Earth)		No x mm³	3C x 1.5	3C x 2.5	
Dimensions	Net	W x H x D mm	770 x 545 x 288	870 x 650 x 330	
Weight	Net	kg	33.3	44.5	
Compressor	Type	-	Twin Rotary	Twin Rotary	
	Type	-	R32	R32	
Refrigerant	GWP (Global Warming Potential)	-	675	675	
	Precharged Amount	kg	1.0	1.2	
t-CO₂eq	-	-	0.675	0.81	
	Additional Charge (After 7.5m)	g/m	20	20	
Fan	Air Flow Rate	Rated m³/min x No.	28 x 1	50 x 1	
Total Piping Length	Min. / Max.	m	5 / 30	5 / 30	
Piping Elevation	IDU - ODU	Max. m	30	30	

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

Note :

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

# CEILING MOUNTED CASSETTE

## 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/kW/h	4.10 / 4.48	3.77 / 4.20
SEER / SCOP		kWh/kW/h	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
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 50	-20 / 50
	Heating	Min. / Max. °C	-20 / 18	-20 / 18
INDOOR			UT24FH NAO	UT30FH NAO
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	43 / 35 / 28	43 / 35 / 28
Air Flow Rate	H / M / L	m³/min	23.8 / 21.4 / 19.0	23.8 / 21.4 / 19.0
Dimensions	Body	W x H x D mm	840 x 288 x 840	840 x 288 x 840
Weight	Body	kg	25.3	25.3
Sound Pressure Level	Cooling	H / M / L dB(A)	42 / 41 / 40	42 / 41 / 40
Sound Power Level	Cooling	Max. dB(A)	56	56
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0
	Model Name	-	PT-AFGW0	PT-AFGW0
Recommended Decoration Panel*	Color	-	White	White
	Dimensions	Body mm	950 x 35 x 950	950 x 35 x 950
	Weight	Body kg	7.5	7.5
OUTDOOR			UUC1 U40	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	
Circuit Breaker	Min.	A	25	
Power Supply Cable (Included Earth)		No x mm³	3C x 2.5	
Dimensions	Net	W x H x D mm	950 x 834 x 330	
Weight	Net	kg	57.7	
Compressor	Type	-	Twin Rotary	
	Type	-	R32	
Refrigerant	GWP (Global Warming Potential)	-	675	
	Precharged Amount	kg	1.9	
	t-CO <sub>2</sub> eq	-	1.283	
	Additional Charge (After 7.5m)	g/m	40	
Fan	Air Flow Rate	Rated m³/min x No.	58 x 1	
Total Piping Length	Min. / Max.	m	5 / 50	
Piping Elevation	IDU - ODU	Max. m	30	

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

Note :

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

# CEILING MOUNTED CASSETTE

## H-INVERTER (R32)

UT36FH / UT42FH / UT48FH / UT60FH

UUD1 U30



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COMBINATION	36	42	48	60		
Capacity	Cooling Min. / Rated / Max. kW	3.8 / 9.5 / 12.8	4.8 / 12.1 / 14.5	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	0.40 / 2.15 / 3.23	0.60 / 3.14 / 4.24	0.80 / 3.83 / 5.17		
	Heating Min. / Rated / Max. kW	0.50 / 2.40 / 3.36	0.70 / 3.29 / 4.28	0.80 / 4.18 / 5.24		
Running Current	Cooling Rated A	9.6	13.8	16.9		
	Heating Rated A	10.4	14.4	18.3		
EER / COP	kWh/kWh	4.42 / 4.50	3.85 / 4.10	3.50 / 3.71		
SEER / SCOP	kWh/kWh	7.6 / 4.5	7.4 / 4.5	6.8 / 4.5		
Pdesign	Cooling @ 35°C kW	9.5	12.1	13.4		
	Heating @ -10°C kW	9.5	9.5	9.5		
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	- / -		
Annual Energy Consumption	Cooling / Heating	kWh	437 / 2,956	981 / 2,956	1,182 / 2,956	1,364 / 2,956
Dehumidification Rate		l/h	2.6	4.8	5.3	6.9
ODU Sound Pressure Level	Cooling / Heating	dB(A)	50 / 50	51 / 52	52 / 53	54 / 54
ODU Sound Power Level	Cooling	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	
INDOOR		UT36FH NAO	UT42FH NAO	UT48FH NAO	UT60FH NAO	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Power Input (IDU)	H / M / L W	70 / 59 / 50	70 / 59 / 50	81 / 60 / 50	81 / 60 / 50	
Air Flow Rate	H / M / L m³/min	28 / 25 / 23	28 / 25 / 23	30 / 27 / 24	30 / 27 / 24	
Dimensions	Body W x H x D mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	
Weight	Body kg	27.2	27.2	27.2	27.2	
Sound Pressure Level	Cooling H / M / L dB(A)	44 / 42 / 41	44 / 42 / 41	45 / 43 / 41	45 / 43 / 41	
Sound Power Level	Cooling Max. dB(A)	59	59	61	61	
Piping Connections	Drain O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0	
Recommended Decoration Panel*	Model Name -	PT-AFGW0	PT-AFGW0	PT-AFGW0	PT-AFGW0	
	Color -	White	White	White	White	
Dimensions	Body mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	
Weight	Body kg	7.5	7.5	7.5	7.5	
OUTDOOR				UUD1 U30		
Power Supply	Ø / V / Hz			1 / 220-240 / 50		
Circuit Breaker	Min. A			40		
Power Supply Cable (Included Earth)	No x mm³			3C x 6.0		
Dimensions	Net W x H x D mm			950 x 1,380 x 330		
Weight	Net kg			85.0		
Compressor	Type -			Inverter Scroll		
	Type -			R32		
	GWP (Global Warming Potential) -			675		
Refrigerant	Precharged Amount kg			3.0		
	t-CO₂eq -			2.025		
	Additional Charge (After 7.5m) g/m			40		
Fan	Air Flow Rate Rated m³/min x No.			55 x 2		
Total Piping Length	Min. / Max. m			5 / 85		
Piping Elevation	IDU - ODU Max. m			30		

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

Note :

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

# CEILING MOUNTED CASSETTE

## H-INVERTER (R32)

UT36FH / UT42FH / UT48FH / UT60FH



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UUUD3 U30



COMBINATION			36	42	48	60
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.8	4.8 / 12.1 / 14.5	5.4 / 13.4 / 16.1	6.0 / 15.0 / 16.2
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.7	5.4 / 13.5 / 16.2	6.2 / 15.5 / 17.8	7.0 / 17.5 / 19.3
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.40 / 2.15 / 3.23	0.60 / 3.14 / 4.24	0.80 / 3.83 / 5.17	0.90 / 4.69 / 5.25
	Heating	Min. / Rated / Max. kW	0.50 / 2.40 / 3.36	0.70 / 3.29 / 4.28	0.80 / 4.18 / 5.24	1.10 / 5.38 / 6.19
Running Current	Cooling	Rated A	3.6	4.9	6.0	7.3
	Heating	Rated A	3.8	5.1	6.5	8.2
EER / COP		kWh/kWh	4.42 / 4.50	3.85 / 4.10	3.50 / 3.71	3.20 / 3.25
SEER / SCOP		kWh/kWh	7.6 / 4.5	7.4 / 4.5	6.8 / 4.5	6.6 / 4.5
Pdesign	Cooling @ 35°C	kW	9.5	12.1	13.4	15
	Heating @ -10°C	kW	9.5	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	- / -	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	437 / 2,956	981 / 2,956	1,182 / 2,956	1,364 / 2,956
Dehumidification Rate		l/h	2.6	4.8	5.3	6.9
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50	51 / 52	52 / 53	54 / 54
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	69	71
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
INDOOR			UT36FH NAO	UT42FH NAO	UT48FH NAO	UT60FH NAO
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	70 / 59 / 50	70 / 59 / 50	81 / 60 / 50	81 / 60 / 50
Air Flow Rate	H / M / L	m³/min	28 / 25 / 23	28 / 25 / 23	30 / 27 / 24	30 / 27 / 24
Dimensions	Body	W x H x D mm	840 x 288 x 840			
Weight	Body	kg	27.2	27.2	27.2	27.2
Sound Pressure Level	Cooling	H / M / L	44 / 42 / 41	44 / 42 / 41	45 / 43 / 41	45 / 43 / 41
Sound Power Level	Cooling	Max.	59	59	61	61
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
Recommended Decoration Panel*	Model Name	-	PT-AFGW0	PT-AFGW0	PT-AFGW0	PT-AFGW0
	Color	-	White	White	White	White
	Dimensions	Body mm	950 x 35 x 950			
OUTDOOR			UUUD3 U30			
Power Supply		Ø / V / Hz	3 / 380-415 / 50			
Circuit Breaker	Min.	A	20			
Power Supply Cable (Included Earth)		No x mm³	5C x 2.5			
Dimensions	Net	W x H x D mm	950 x 1,380 x 330			
Weight	Net	kg	85			
Compressor	Type	-	Inverter Scroll			
Refrigerant	Type	-	R32			
	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			

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

Note :

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

# CEILING MOUNTED CASSETTE

## STANDARD INVERTER (R32)

CT09F / CT12F / CT18F

UUA1 ULO    UUB1 U20



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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)
Operation Range (Outdoor)	Connections Method	-	Flared	Flared	Flared
	Cooling	Min. / Max. °C	-15 / 50	-15 / 50	-15 / 50
	Heating	Min. / Max. °C	-20 / 18	-20 / 18	-20 / 18
INDOOR			CT09F NRO	CT12F NRO	CT18F NQO
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	26 / 22 / 19	28 / 24 / 20	30 / 26 / 22
Air Flow Rate	H / M / L	m³/min	8.5 / 7.0 / 6.0	9.5 / 8.0 / 7.0	13 / 12 / 11
Dimensions	Body	W x H x D mm	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570
Weight	Body	kg	12.4	12.4	13.9
Sound Pressure Level	Cooling	H / M / L dB(A)	36 / 33 / 30	38 / 35 / 32	41 / 39 / 37
Sound Power Level	Cooling	Max. dB(A)	52	52	57
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
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	kg	3.0	3.0	3.0
OUTDOOR			UUA1 ULO	UUB1 U20	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker	Min.	A	15	20	
Power Supply Cable (Included Earth)		No x mm³	3C x 1.5	3C x 2.5	
Dimensions	Net	W x H x D mm	770 x 545 x 288	870 x 650 x 330	
Weight	Net	kg	33.3	44.5	
Compressor	Type	-	Twin Rotary	Twin Rotary	
	Type	-	R32	R32	
Refrigerant	GWP (Global Warming Potential)	-	675	675	
	Precharged Amount	kg	1.0	1.2	
t-CO₂eq	-	-	0.675	0.81	
	Additional Charge (After 7.5m)	g/m	20	20	
Fan	Air Flow Rate	Rated m³/min x No.	28 x 1	50 x 1	
Total Piping Length	Min. / Max.	m	5 / 30	5 / 30	
Piping Elevation	IDU - ODU	Max. m	30	30	

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

Note :

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

# CEILING MOUNTED CASSETTE

## 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/kW/h	3.52 / 3.83	3.27 / 3.40
SEER / SCOP		kWh/kW/h	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	
Refrigerant	GWP (Global Warming Potential)	-	675	
	Precharged Amount	kg	1.9	
	t-CO <sub>2</sub> eq	-	1.283	
	Additional Charge (After 7.5m)	g/m	40	
Fan	Air Flow Rate	Rated m³/min x No.	58 x 1	
Total Piping Length	Min. / Max.	m	5 / 50	
Piping Elevation	IDU - ODU	Max. m	30	

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

Note :

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

# CEILING MOUNTED CASSETTE

## STANDARD INVERTER (R32)

UT36F / UT42F / UT48F / UT60F

UUD1 U30



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COMBINATION			36	42	48	60
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.5	4.8 / 12.1 / 14.2	5.4 / 13.4 / 15.7	5.8 / 14.6 / 15.8
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.4	5.4 / 13.5 / 15.8	6.2 / 15.5 / 17.5	6.8 / 16.9 / 18.3
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.26 / 3.44	0.70 / 3.31 / 4.30	0.90 / 4.25 / 5.53	1.00 / 5.21 / 5.84
	Heating	Min. / Rated / Max. kW	0.50 / 2.43 / 3.30	0.70 / 3.51 / 4.56	0.90 / 4.37 / 5.33	1.00 / 5.12 / 5.89
Running Current	Cooling	Rated A	10.1	14.6	18.7	23.1
	Heating	Rated A	10.7	15.0	19.0	22.7
EER / COP		kWh/kWh	4.20 / 4.45	3.66 / 3.85	3.15 / 3.55	2.80 / 3.30
SEER / SCOP		kWh/kWh	7.0 / 4.3	7.0 / 4.3	6.5 / 4.2	6.2 / 4.2
Pdesign	Cooling @ 35°C	kW	9.5	12.1	13.4	14.6
	Heating @ -10°C	kW	9.5	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	- / -	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	475 / 3,093	1,037 / 3,093	1,237 / 3,167	1,413 / 3,167
Dehumidification Rate		l/h	2.4	4.5	5.7	6.6
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50	51 / 52	52 / 53	54 / 54
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	69	71
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
INDOOR			UT36F NAO	UT42F NAO	UT48F NAO	UT60F NAO
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	60 / 50 / 45	60 / 50 / 45	80 / 60 / 50	80 / 60 / 50
Air Flow Rate	H / M / L	m³/min	27.5 / 25 / 22.5	27.5 / 25 / 22.5	30 / 27.5 / 25	30 / 27.5 / 25
Dimensions	Body	W x H x D mm	840 x 288 x 840			
Weight	Body	kg	25.3	25.3	25.3	25.3
Sound Pressure Level	Cooling	H / M / L dB(A)	44 / 42 / 41	44 / 42 / 41	46 / 44 / 42	46 / 44 / 42
Sound Power Level	Cooling	Max. dB(A)	61	61	62	62
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
Recommended Decoration Panel*	Model Name	-	PT-AAGW0	PT-AAGW0	PT-AAGW0	PT-AAGW0
	Color	-	White	White	White	White
Dimensions	Body	mm	950 x 35 x 950			
Weight	Body	kg	7.1	7.1	7.1	7.1
OUTDOOR					UUD1 U30	
Power Supply		Ø / V / Hz			1 / 220-240 / 50	
Circuit Breaker	Min.	A			40	
Power Supply Cable (Included Earth)		No x mm³			3C x 6.0	
Dimensions	Net	W x H x D mm			950 x 1,380 x 330	
Weight	Net	kg			85.0	
Compressor	Type	-			Inverter Scroll	
	Type	-			R32	
	GWP (Global Warming Potential)	-			675	
Refrigerant	Precharged Amount	kg			3.0	
	t-CO₂eq	-			2.025	
	Additional Charge (After 7.5m)	g/m			40	
Fan	Air Flow Rate	Rated m³/min x No.			55 x 2	
Total Piping Length	Min. / Max. m				5 / 85	
Piping Elevation	IDU - ODU	Max. m			30	

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

Note :

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

# CEILING MOUNTED CASSETTE

## STANDARD INVERTER (R32)

UT36F / UT42F / UT48F / UT60F



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UU3 U30



COMBINATION			<b>36</b>	<b>42</b>	<b>48</b>	<b>60</b>
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.5	4.8 / 12.1 / 14.2	5.4 / 13.4 / 15.7	5.8 / 14.6 / 15.8
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.4	5.4 / 13.5 / 15.8	6.2 / 15.5 / 17.5	6.8 / 16.9 / 18.3
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.26 / 3.44	0.70 / 3.31 / 4.30	0.90 / 4.25 / 5.53	1.00 / 5.21 / 5.84
	Heating	Min. / Rated / Max. kW	0.50 / 2.43 / 3.30	0.70 / 3.51 / 4.56	0.90 / 4.37 / 5.33	1.00 / 5.12 / 5.89
Running Current	Cooling	Rated A	3.8	5.2	6.6	8.1
	Heating	Rated A	3.9	5.4	6.7	7.9
EER / COP		kWh/kWh	4.20 / 4.45	3.66 / 3.85	3.15 / 3.55	2.80 / 3.30
SEER / SCOP		kWh/kWh	7.0 / 4.3	7.0 / 4.3	6.5 / 4.2	6.2 / 4.2
Pdesign	Cooling @ 35°C	kW	9.5	12.1	13.4	14.6
	Heating @ -10°C	kW	9.5	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	- / -	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	475 / 3,093	1,037 / 3,093	1,237 / 3,167	1,413 / 3,167
Dehumidification Rate		l/h	2.4	4.5	5.7	6.6
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50	51 / 52	52 / 53	54 / 54
ODU Sound Power Level	Cooling	Rated dB(A)	66	69	69	71
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
INDOOR			<b>UT36F NAO</b>	<b>UT42F NAO</b>	<b>UT48F NAO</b>	<b>UT60F NAO</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	60 / 50 / 45	60 / 50 / 45	80 / 60 / 50	80 / 60 / 50
Air Flow Rate	H / M / L	m³/min	27.5 / 25 / 22.5	27.5 / 25 / 22.5	30 / 27.5 / 25	30 / 27.5 / 25
Dimensions	Body	W x H x D mm	840 x 288 x 840			
Weight	Body	kg	25.3	25.3	25.3	25.3
Sound Pressure Level	Cooling	H / M / L	44 / 42 / 41	44 / 42 / 41	46 / 44 / 42	46 / 44 / 42
Sound Power Level	Cooling	Max.	61	61	62	62
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0
Recommended Decoration Panel*	Model Name	-	PT-AAGW0	PT-AAGW0	PT-AAGW0	PT-AAGW0
	Color	-	White	White	White	White
	Dimensions	Body mm	950 x 35 x 950			
Weight	Body	kg	7.1	7.1	7.1	7.1
OUTDOOR			<b>UU3 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			
Refrigerant	Type	-	R32			
	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			

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

Note :

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

# CEILING MOUNTED CASSETTE

## COMPACT INVERTER (R32)

CT18F / CT24F / UT30F / UT36F

UUA1 ULO    UUB1 U20    UUC1 U40



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COMBINATION	18	24	30	36	
Capacity	Cooling Min. / Rated / Max. kW	1.8 / 5.0 / 5.5	2.7 / 6.8 / 7.5	3.0 / 7.5 / 8.3	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+
Annual Energy Consumption	Cooling / Heating	kWh	278 / 1,005	340 / 1,367	386 / 1,367
Dehumidification Rate		l/h	1.8	2.6	3.1
ODU Sound Pressure Level	Cooling / Heating	dB(A)	49 / 52	48 / 53	50 / 54
ODU Sound Power Level	Cooling	dB(A)	65	65	67
	Liquid mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas mm (inch)	Ø9.52 (3/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling Min. / Max. °C	-10 / 50	-10 / 48	-10 / 48	-20 / 50
	Heating Min. / Max. °C	-10 / 18	-15 / 18	-15 / 18	-15 / 18
INDOOR	CT18F NQ0	CT24F NBO	UT30F NBO	UT36F NAO	
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Power Input (IDU)	H / M / L W	30 / 26 / 22	36 / 26 / 21	40 / 33 / 26	
Air Flow Rate	H / M / L m³/min	13 / 12 / 11	18 / 15.5 / 14	19 / 17 / 15.5	
Dimensions	Body W x H x D mm	570 x 256 x 570	840 x 204 x 840	840 x 204 x 840	
Weight	Body kg	13.9	21.1	21.1	
Sound Pressure Level	Cooling H / M / L dB(A)	41 / 39 / 37	38 / 36 / 34	40 / 37 / 35	
Sound Power Level	Cooling Max. dB(A)	57	53	57	
Piping Connections	Drain O.D. / I.D. mm	Ø32.0 / 25.0	Ø32.0 / 25.0	Ø32.0 / 25.0	
	Model Name -	PT-QAGW0	PT-AAGW0	PT-AAGW0	
Recommended Decoration Panel*	Color -	White	White	White	
	Dimensions Body mm	620 x 34 x 620	950 x 35 x 950	950 x 35 x 950	
	Weight Body kg	3.0	7.1	7.1	
OUTDOOR	UUA1 ULO	UUB1 U20	UUC1 U40		
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker	Min. A	15	20	25	
Power Supply Cable (Included Earth)	No x mm³	3C x 1.5	3C x 2.5	3C x 2.5	
Dimensions	Net W x H x D mm	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330	
Weight	Net kg	33.3	44.5	57.7	
Compressor	Type -	Twin Rotary	Twin Rotary	Twin Rotary	
	Type -	R32	R32	R32	
	GWP (Global Warming Potential) -	675	675	675	
Refrigerant	Precharged Amount kg	1.0	1.2	1.9	
	t-CO₂eq -	0.675	0.81	1.283	
	Additional Charge (After 7.5m) g/m	20	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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  - 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.
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# ACCESSORIES

## Cassette Panel



### Model Name

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

### Key Features

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

### Specification

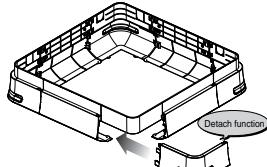
Model	Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)		
					W	H	D
PT-AAGW0	Grid	White (RAL 9003)	-	7.1	950	35	950
PT-AFGW0	Grid	White (RAL 9003)	-	7.5	950	35	950
PT-QAGW0	Grid	White (RAL 9003)	-	3.0	620	34	620

### Air Purification Kit

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

## Cassette Cover

Cover in case of exposed cassette installation.



### Model Name

PTDCQ / PTDCA\*

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

### Applied Products

4 Way Cassette (for chassis TQ, TR)

### Key Features

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

### Specification

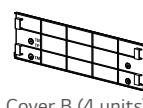
Model	Front Panel	Weight (kg)		Dimensions (mm)		
		NET	Gross	W	H	D
PTDCQ	PT-UQC	TR	5.0	7.2	907	907
		TQ	5.0	7.2	907	907
				268	310	

### Included Parts

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



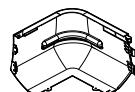
Cover A (4 units)



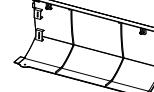
Cover B (4 units)



Screw (32 units)



Cover C (4 units)



Cover D (4 units)



Installation Manual

# ROUND CASSETTE



# ROUND CASSETTE

## Slim and Compact Design

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

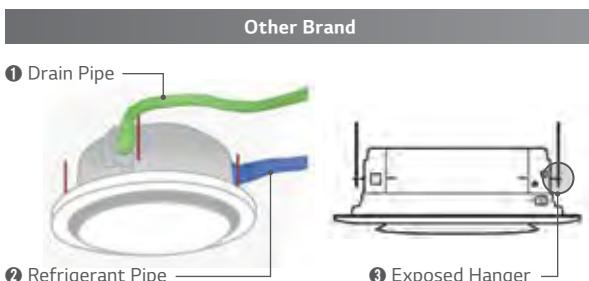


※ Product : 11 / 13.4kW



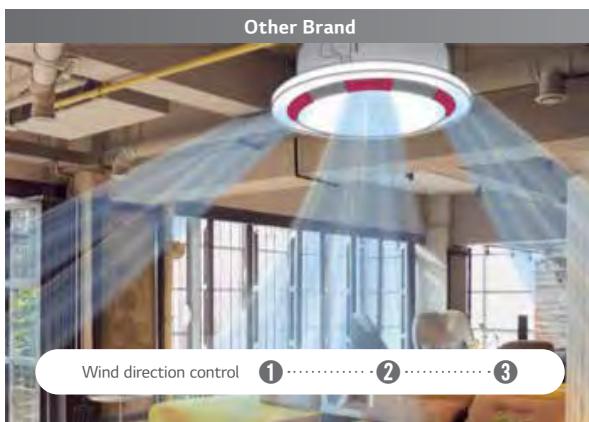
## Minimal Exposure Design

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



## 6-Step Vane Control

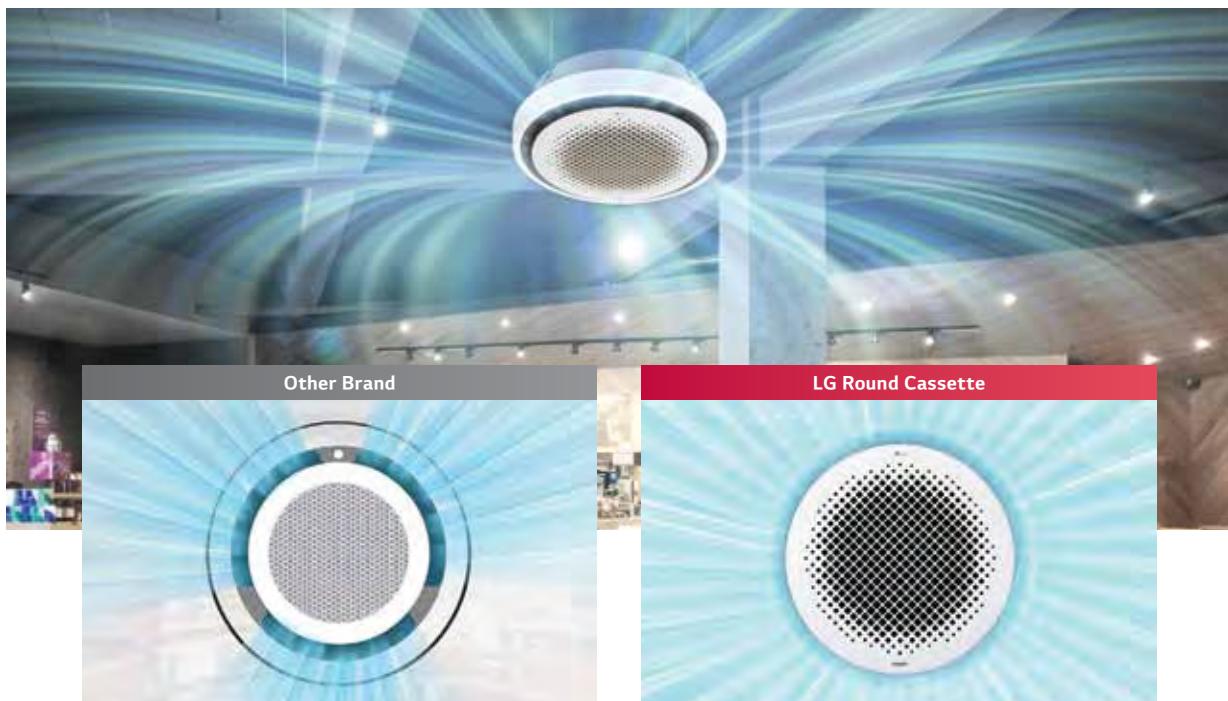
Crystal vane allows for 6-step precision control for cool and warm airflow in every direction.



# ROUND CASSETTE

## 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

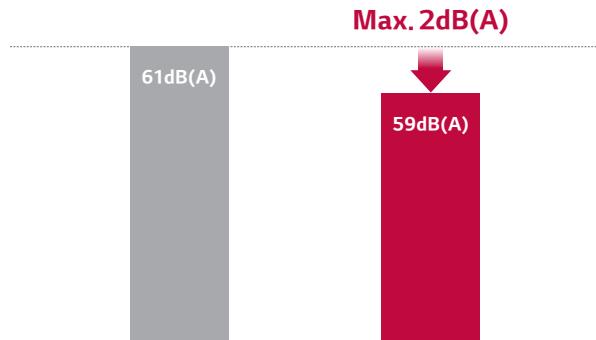


Normal communication  
Noise level 50dB(A)

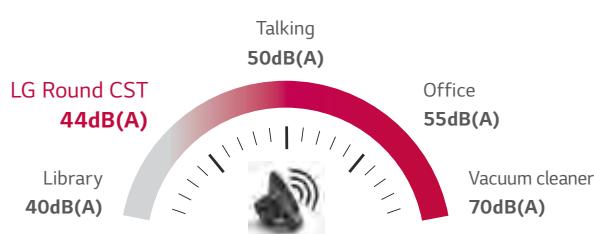


Library  
Noise level 40dB(A)

### Sound Power



LG Round Cassette



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

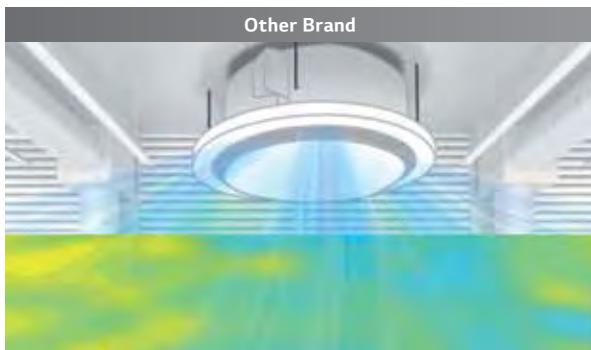
Other brand	LG Round Cassette
61	Max. 59

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

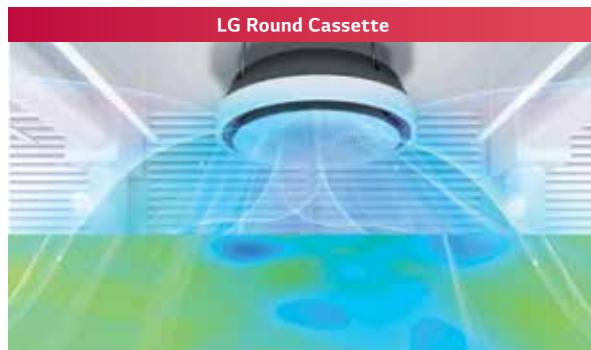
# ROUND CASSETTE

## Faster in Cooling

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



Set temperature reach time 18 minutes (Height 1.1m)



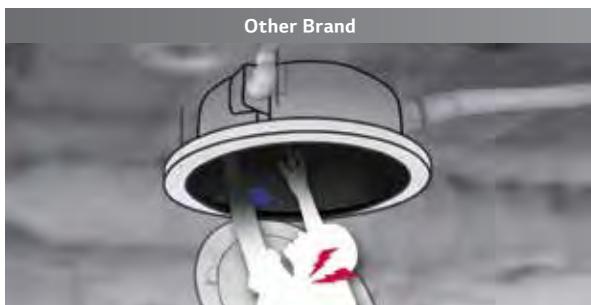
Set temperature reach time 12 minutes (Height 1.1m)

※ 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



Function  
Button



Comfort  
Cooling Icon

- Press the 'Set' button



Set Button



## STANDARD INVERTER (R32)

UT36F NYO / UT48F NYO



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UUD1 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
SEER / SCOP			kWh/kWh	6.80 / 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
Dehumidification Rate			ℓ/h	4.27
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 50
ODU Sound Power Level	Cooling / Heating	Rated	dB(A)	66 / -
Piping Connections	Liquid	Outer Dia.	mm (inch)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm (inch)	Ø 15.88 (5/8)
Connections Method			-	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
Power Input (IDU)			H / M / L W	90 / 66 / 48
Air Flow Rate			H / M / L m³/min	25.0 / 21.0 / 19.0
Dimensions	Body	W x H x D	mm	1,050 x 330 x 1,050
Weight	Body		kg	30.0
Sound Pressure Level	Cooling	H / M / L	dB(A)	44.0 / 40.0 / 38.0
	Heating	H / M / L	dB(A)	47.0 / 43.0 / 40.0
Sound Power Level	Cooling	Rated	dB(A)	59
	Heating	Rated	dB(A)	-
Piping Connections	Drain Pipe	O.D. / I.D.	mm	Ø 32.0 / 25.0
OUTDOOR			UUD1 U30	
Power Supply			Ø / V / Hz	
Circuit Breaker			Min. A	
Power Supply Cable (included Earth)			No. x mm²	
Dimensions	Net	W x H x D	mm	950 x 1,380 x 330
Weight	Net		kg	85.0
Compressor	Type	-		LG Inverter Scroll
Refrigerant	Type	-		R32
	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

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

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**UUD3 U30**

<b>COMBINATION</b>			<b>36</b>	<b>48</b>
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/kW/h	3.60 / 3.90	3.05 / 3.40
SEER / SCOP		kWh/kW/h	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
<b>INDOOR</b>			<b>UT36F NYO</b>	<b>UT48F NYO</b>
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
<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	85.0	
Compressor	Type	-	LG Inverter Scroll	
Refrigerant	Type	-	R32	
	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	

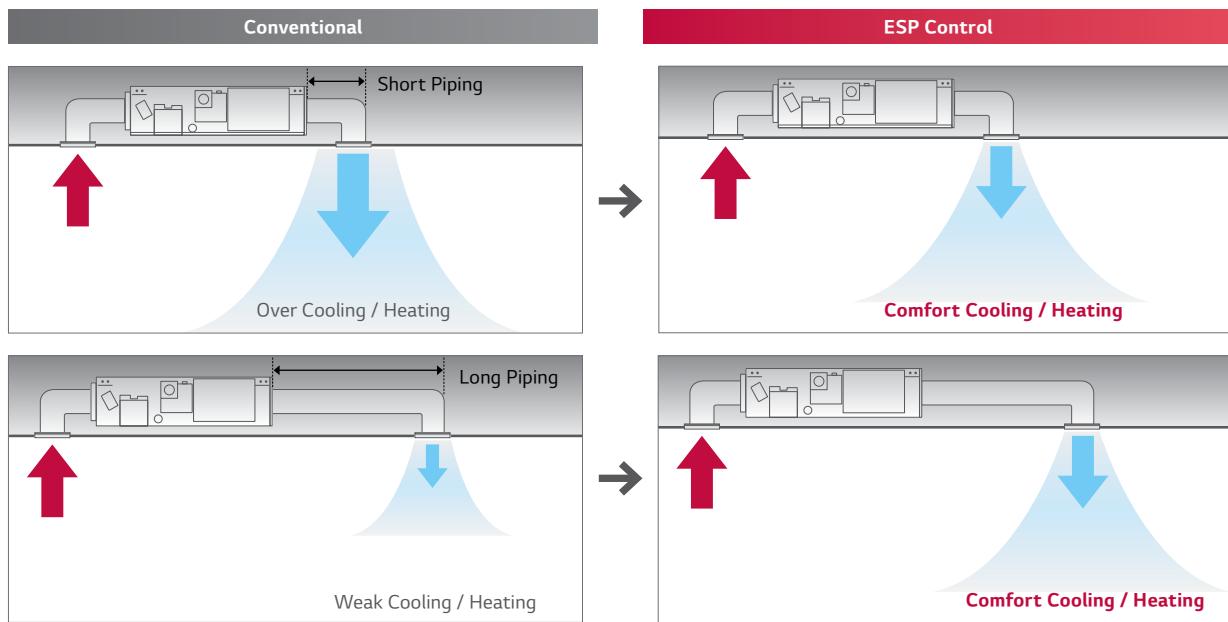
# CEILING CONCEALED DUCT



# CEILING CONCEALED DUCT

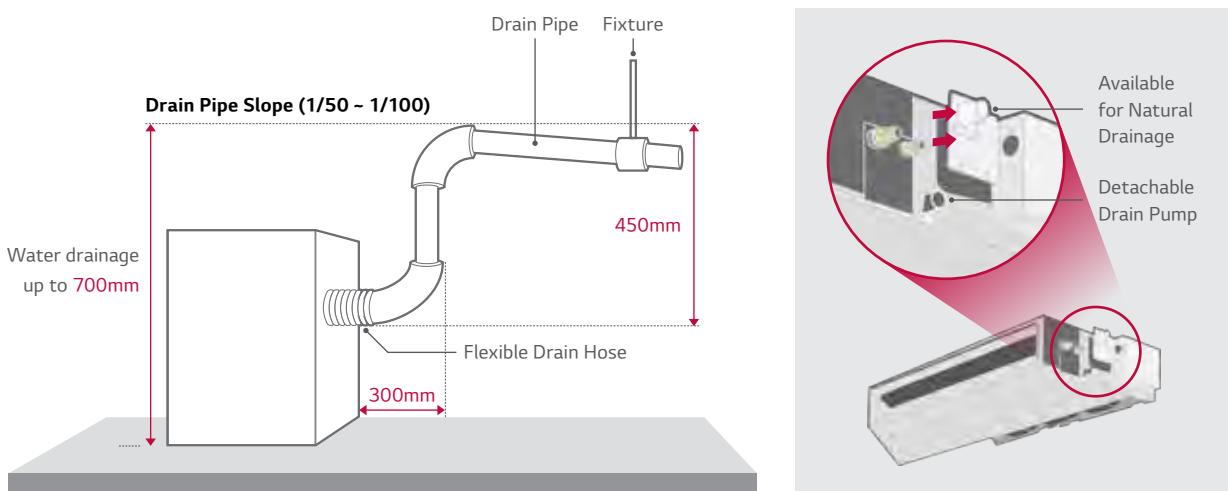
## External Static Pressure (ESP) Control

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

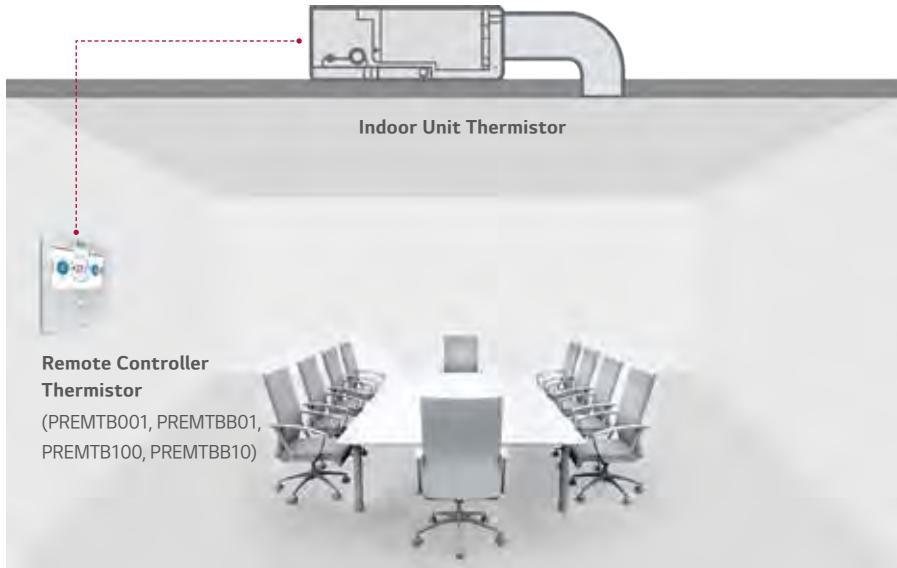
High head drain pump automatically drains water up to a height of 700mm of drain-head height. It provides the perfect solution for draining of water.



※ 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.



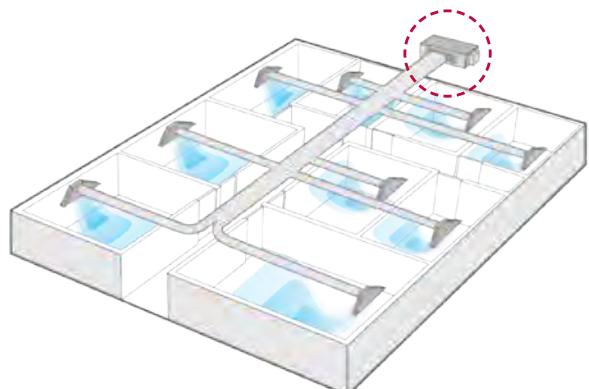
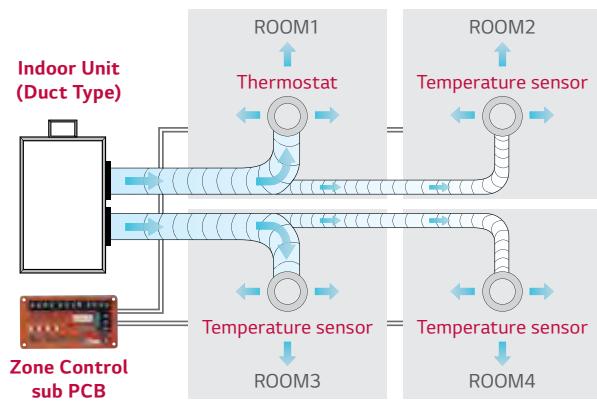
Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users.

## 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

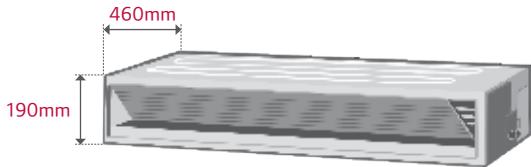


# CEILING CONCEALED DUCT

## Minimized Height and Depth

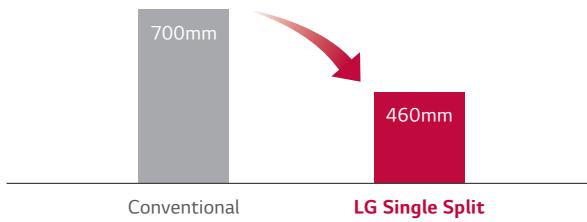
New Low Static ducts provide ideal solution for installation in limited space.

### Low Static Duct



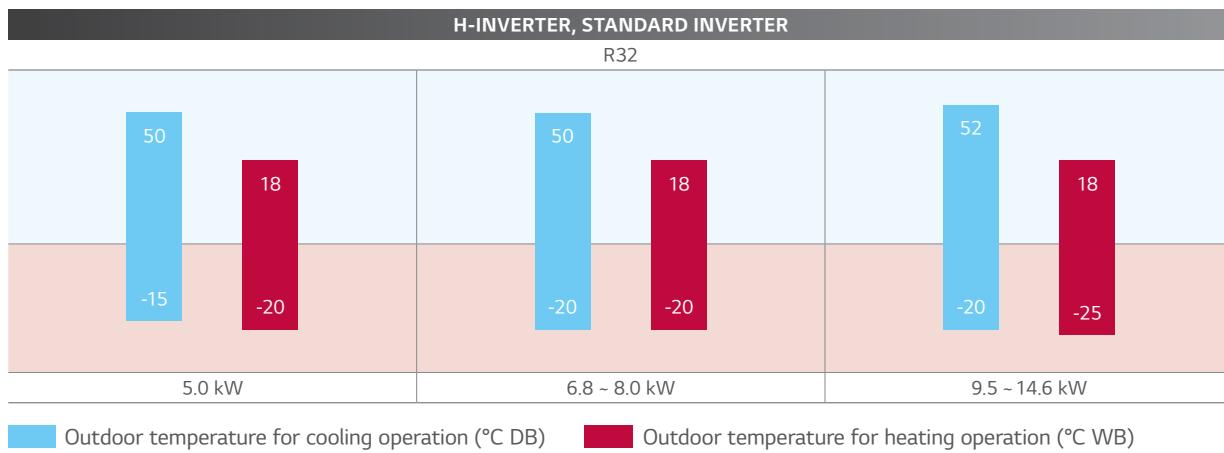
※ CL09F N50, CL12F N50, CL18F N60, UL12FH N50 only

### Depth



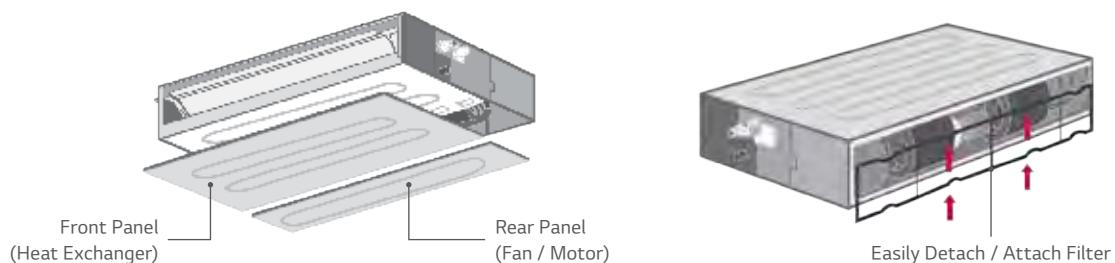
※ 2.5 / 3.4 / 5 kW

## Wide Operation Range



## Easy Service & Maintenance

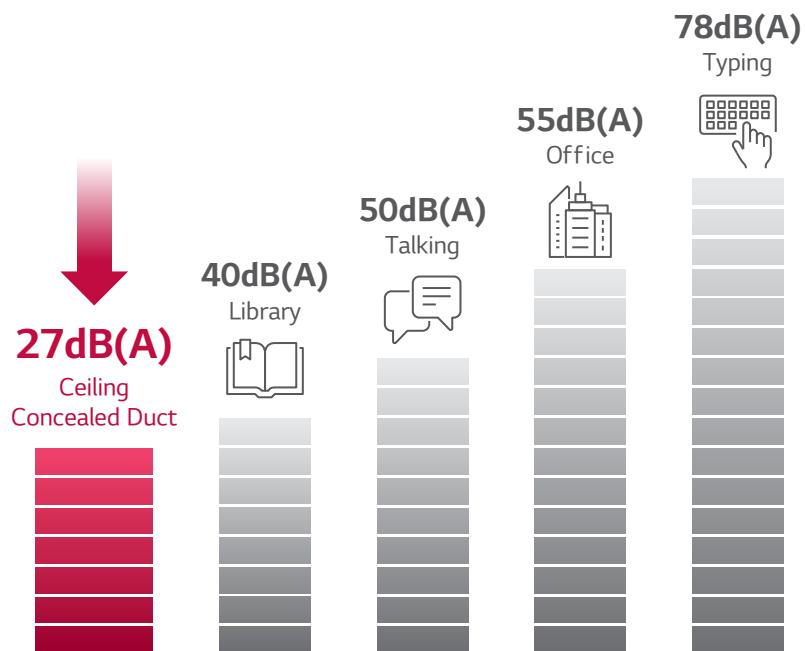
Users are not required to disassemble the whole panel for maintenance; since panel is divided into 2 components; one for heat exchanger and the other for fan / motor. The user can easily detach and re-attach the filter in the available limited space.



# CEILING CONCEALED DUCT

## Quiet Operation (Low Static Pressure Model)

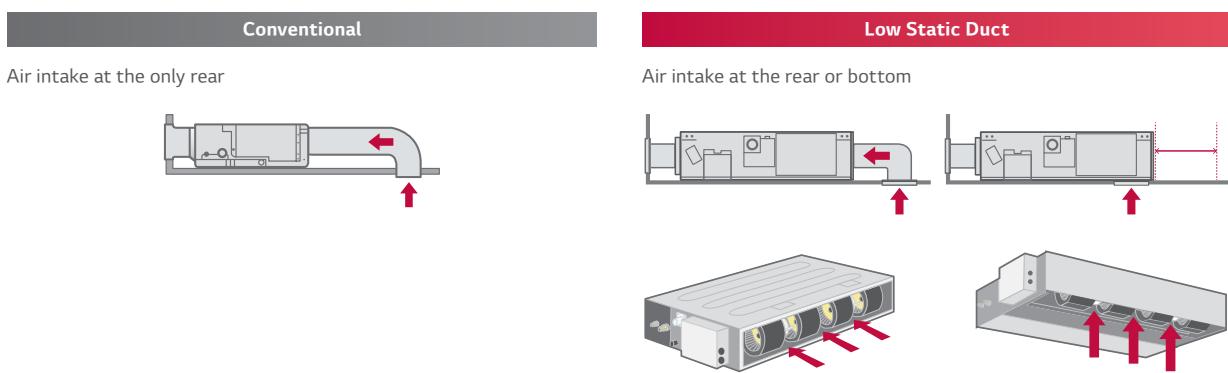
The noise level of low static ducts have been reduced, even though ESP has been increased.



Sound Pressure (High / Medium / Low)	dB(A)	CL09F N50	CL12F N50	CL18F N60	CL24F N30
		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.



# CEILING CONCEALED DUCT

## H-INVERTER (R32)

### LOW STATIC PRESSURE - UL12FH / UL18FH



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UUA1 ULO    UUB1 U20



COMBINATION		12	18
Capacity	Cooling	Min. / Rated / Max. kW	1.5 / 3.4 / 4.7
	Heating	Min. / Rated / Max. kW	1.8 / 4.0 / 4.9
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.33 / 1.05 / 1.84
	Heating	Min. / Rated / Max. kW	0.33 / 1.08 / 1.63
Running Current	Cooling	Rated A	4.7
	Heating	Rated A	4.8
EER / COP		kWh / kWh	3.23 / 3.71
SEER / SCOP		kWh / kWh	6.1 / 4.0
Pdesign	Cooling @ 35°C	kW	3.4
	Heating @ -10°C	kW	2.9
Seasonal Energy Label	Cooling / Heating	-	A++ / A+
Annual Energy Consumption	Cooling / Heating	kWh	195 / 1,015
Dehumidification Rate		l/h	0.8
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	49 / 52
ODU Sound Power Level	Cooling	Rated dB(A)	65
Piping Connections	Liquid	mm (inch)	Ø6.35 (1/4)
	Gas	mm (inch)	Ø9.52 (3/8)
Connections Method	-		Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-15 / 50
	Heating	Min. / Max. °C	-20 / 18
INDOOR		UL12FH N50	UL18FH N30
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	21 / 15 / 13
Air Flow Rate	H / M / L	m³/min	11.5 / 9.5 / 8
Dimensions	Body	W x H x D mm	900 x 190 x 460
Weight	Body	kg	18
Sound Pressure Level	Cooling	H / M / L dB(A)	35 / 30 / 27
Sound Power Level	Cooling	Max dB(A)	55
Piping Connections	Drain	O.D. / I.D. mm	Ø32.0 / 26.0
OUTDOOR		UUA1 ULO	UUB1 U20
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
Refrigerant	Type	-	R32
	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



# CEILING CONCEALED DUCT

## H-INVERTER (R32)

### MID STATIC PRESSURE

- UM36FH / UM42FH / UM48FH



**UUID1 U30**



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COMBINATION			<b>36</b>	<b>42</b>	<b>48</b>
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
INDOOR			<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
OUTDOOR			<b>UUID1 U30</b>		
Power Supply		Ø / V / Hz	1 / 220-240 / 50		
Circuit Breaker	Min.	A	40		
Power Supply Cable (Included Earth)		No x mm³	3C x 6.0		
Dimensions	Net	W x H x D mm	950 x 1,380 x 330		
Weight	Net	kg	85.0		
Compressor	Type	-	Inverter Scroll		
Refrigerant	Type	-	R32		
	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		

# CEILING CONCEALED DUCT

## H-INVERTER (R32)

### MID STATIC PRESSURE - UM36FH / UM42FH / UM48FH



UUD3 U30



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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
SEER / SCOP			kWh / kWh	6.4 / 4.2	6.2 / 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
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 / 52	-20 / 52	-20 / 52
	Heating	Min. / Max. °C	-25 / 18	-25 / 18	-25 / 18
INDOOR			UM36FH N30	UM42FH N30	UM48FH N30
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)			H / M / L W	242 / 159 / 124	242 / 159 / 124
Air Flow Rate			H / M / L m³/min	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
Weight	Body	kg		44.3	44.3
Sound Pressure Level	Cooling	H / M / L dB(A)		39 / 38 / 36	39 / 38 / 36
Sound Power Level	Cooling	Max. dB(A)		65	65
Piping Connections	Drain (Natural Drainage)	O.D. / I.D. mm		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
OUTDOOR			UUD3 U30		
Power Supply				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
Refrigerant	Type	-			R32
	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

# CEILING CONCEALED DUCT

## STANDARD INVERTER (R32)

### LOW STATIC PRESSURE

- CL09F / CL12F / CL18F / CL24F

UUA1 ULO

UUB1 U20

UUC1 U40



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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
	Heating	Min. / Rated / Max. kW	1.8 / 3.2 / 4.0	1.8 / 4.0 / 4.9	2.3 / 5.8 / 6.7
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
	Heating	Min. / Rated / Max. kW	0.38 / 0.75 / 1.63	0.33 / 1.08 / 1.63	0.4 / 1.77 / 2.48
Running Current	Cooling	Rated A	3.0	4.7	7.5
	Heating	Rated A	3.3	4.8	8.3
EER / COP		kWh / kWh	3.80 / 4.30	3.23 / 3.71	3.71 / 3.28
SEER / SCOP		kWh / kWh	6.1 / 4.0	5.6 / 3.8	6.1 / 3.9
Pdesign	Cooling @ 35°C	kW	2.5	3.4	5
	Heating @ -10°C	kW	2.9	2.9	4.1
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	A+ / A	A++ / A
Annual Energy Consumption	Cooling / Heating	kWh	143 / 1,015	213 / 1,068	287 / 1,472
Dehumidification Rate		l/h	0.2	0.8	1.6
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>CL09F N50</b>	<b>CL12F N50</b>	<b>CL18F N60</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	21 / 15 / 13	21 / 15 / 13	100 / 90 / 80
Air Flow Rate	H / M / L	m³/min	11.5 / 9.5 / 8	11.5 / 9.5 / 8	15 / 12 / 10
Dimensions	Body	W x H x D mm	900 x 190 x 460	900 x 190 x 460	1,100 x 190 x 460
Weight	Body	kg	18.0	18.0	20.9
Sound Pressure Level	Cooling	H / M / L	35 / 30 / 27	35 / 30 / 27	34 / 31 / 29
Sound Power Level	Cooling	Max. dB(A)	55	55	56
Piping Connections	Drain	O.D. / I.D. mm	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
Refrigerant	Type	-	R32	R32	R32
	GWP (Global Warming Potential)	-	675	675	675
	Precharged Amount	kg	1.0	1.2	1.9
	t-CO <sub>2</sub> eq	-	0.675	0.81	1.283
	Additional Charge (After 7.5m)	g/m	20	20	40
Fan	Air Flow Rate	Rated m³/min x No.	28 x 1	50 x 1	58 x 1
Total Piping Length		Min. / Max. m	5 / 30	5 / 30	5 / 50
Piping Elevation	IDU - ODU	Max. m	30	30	30

# CEILING CONCEALED DUCT

## STANDARD INVERTER (R32)

MID STATIC PRESSURE  
- CM18F / CM24F / UM30F



UUB1 U20      UUC1 U40



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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
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
INDOOR			<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	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
OUTDOOR			<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	
Refrigerant	Type	-	R32	R32	
	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	

# CEILING CONCEALED DUCT

## STANDARD INVERTER (R32)

### MID STATIC PRESSURE

- UM36F / UM42F / UM48F / UM60F



UUID1 U30



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COMBINATION			36	42	48	60
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.5	4.8 / 12.0 / 14.0	5.4 / 13.4 / 15.7	5.8 / 14.6 / 15.8
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.4	5.4 / 13.5 / 15.8	6.2 / 15.5 / 17.5	6.7 / 16.8 / 18.1
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.50 / 3.80	0.70 / 3.48 / 4.52	0.90 / 4.32 / 5.62	1.00 / 4.95 / 5.54
	Heating	Min. / Rated / Max. kW	0.60 / 2.77 / 3.77	0.80 / 3.74 / 4.86	0.90 / 4.31 / 5.26	0.90 / 4.60 / 5.29
Running Current	Cooling	Rated A	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
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
INDOOR			UM36F N20	UM42F N20	UM48F N30	UM60F N30
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	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
OUTDOOR			UUID1 U30			
Power Supply	Ø / V / Hz		1 / 220-240 / 50			
Circuit Breaker	Min.	A	40			
Power Supply Cable (Included Earth)		No x mm³	3C x 6.0			
Dimensions	Net	W x H x D mm	950 x 1,380 x 330			
Weight	Net	kg	85			
Compressor	Type	-	Inverter Scroll			
Refrigerant	Type	-	R32			
	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			

# CEILING CONCEALED DUCT

## STANDARD INVERTER (R32)

### MID STATIC PRESSURE

- UM 36F / UM42F / UM48F / UM60F



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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 / 12.0 / 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
INDOOR			<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	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
OUTDOOR			<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			
Refrigerant	Type	-	R32			
	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 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

## COMPACT INVERTER (R32)

### LOW STATIC PRESSURE - CL18F / CL24F



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UUA1 ULO    UUB1 U20



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
INDOOR			CL18F N60	CL24F N30
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
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
Refrigerant	Type	-	R32	R32
	GWP (Global Warming Potential)	-	675	675
	Precharged Amount	kg	1.0	1.2
	t-CO₂eq	-	0.675	0.81
	Additional Charge (After 7.5m)	g/m	20	40
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

# CEILING CONCEALED DUCT

## COMPACT INVERTER (R32)

### MID STATIC PRESSURE

- CM18F / CM24F / UM30F / UM36F



UUA1 ULO    UUB1 U20    UUC1 U40



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COMBINATION			18	24	30	36
Capacity	Cooling	Min. / Rated / Max. kW	1.8 / 5.0 / 5.6	2.7 / 6.8 / 7.5	3.0 / 7.5 / 8.3	3.8 / 9.5 / 10.5
	Heating	Min. / Rated / Max. kW	2.2 / 5.5 / 6.7	3.0 / 7.4 / 8.5	3.2 / 8.0 / 8.8	4.3 / 10.8 / 11.5
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.35 / 1.67 / 1.92	0.50 / 2.34 / 2.81	0.50 / 2.57 / 3.08	0.60 / 3.16 / 3.86
	Heating	Min. / Rated / Max. kW	0.32 / 1.58 / 1.77	0.40 / 2.17 / 2.82	0.50 / 2.25 / 2.93	0.60 / 3.03 / 3.48
Running Current	Cooling	Rated A	7.4	10.3	11.0	14.0
	Heating	Rated A	7.0	9.7	9.7	13.4
EER / COP		kWh / kWh	3.00 / 3.50	2.91 / 3.41	2.92 / 3.56	3.01 / 3.57
SEER / SCOP		kWh / kWh	6.1 / 3.8	5.8 / 4.1	5.6 / 3.9	5.9 / 4.0
Pdesign	Cooling @ 35°C	kW	5	6.8	7.5	9.5
	Heating @ -10°C	kW	2.8	4.1	4.3	5.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A	A+ / A+	A+ / A	A+ / A+
Annual Energy Consumption	Cooling / Heating	kWh	287 / 1,032	410 / 1,400	469 / 1,544	564 / 1,924
Dehumidification Rate		l/h	1.2	2.5	2.6	3.2
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	49 / 52	48 / 53	50 / 54	54 / 56
ODU Sound Power Level	Cooling	Rated dB(A)	65	65	67	70
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>CM18F N10</b>	<b>CM24F N10</b>	<b>UM30F N10</b>	<b>UM36F N20</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	150 / 130 / 110	180 / 150 / 130	220 / 200 / 180	183 / 134 / 101
Air Flow Rate	H / M / L	m³/min	16.5 / 14.5 / 13	18 / 16.5 / 14.5	22 / 20 / 18	32 / 28 / 24
Dimensions	Body	W x H x D mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	1,250 x 270 x 700
Weight	Body	kg	24.6	24.6	26.2	38.5
Sound Pressure Level	Cooling	H / M / L	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
<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	
Refrigerant	Type	-	R32	R32	R32	
	GWP (Global Warming Potential)	-	675	675	675	
	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	

# CEILING CONCEALED DUCT

## STANDARD INVERTER (R410A)

### HIGH STATIC PRESSURE - UB70 / UB85



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UU70W UU85W



INDOOR			UB70 N94	UB85 N94
Capacity	Cooling	Min. / Nom. / Max. kW	7.6 / 19.0 / 20.9	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)		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
COP				3.50
SEER				4.90
SCOP				3.53
Pdesign (@ -10°C)	kW			13.4
Seasonal Energy Label	Cooling / Heating			
Annual Energy Consumption	Cooling / Heating	kWh	-	-
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø12.7 (1/2)
Piping Connection	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			
Airflow Rate	Nom.	m³/min	Hermetically Sealed Scroll	Hermetically Sealed Scroll
			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			
	Type	-	R410A	R410A
Refrigerant	Charge	g	5,200	5,500
	Additional Charge	g/m	70	70
	GWP	-	2087.5	2087.5
	TCO2eq	-	10.9	11.5
Operation Range (Outdoor)	Cooling	Min. / Max. °C DB	-20 / 48	-20 / 48
	Heating	Min. / Max. °C WB	-18 / 18	-18 / 18
Power Supply	Ø / V / Hz		3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable	No. x mm²		5C x 2.5	5C x 2.5
Transmission Cable	No. x mm²		4C x 1.0	4C x 1.0
Circuit Breaker	A		30	30
Piping Length Total	Min. / Max. m		5 / 75	5 / 75
Piping Elevation Difference	IDU - ODU	Max. m	30	30
Piping Connection	Liquid	mm (inch)	Ø9.53 (3/8)	Ø12.7 (1.2)
	Gas	mm (inch)	Ø25.4 (1/1)	Ø22.2 (7/8)

#### Note :

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

# CEILING SUSPENDED



# CEILING SUSPENDED

## Differentiated Design

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



## Powerful Cooling & Heating

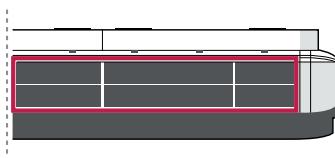
High ceiling mode provides powerful cooling and heating up to 4.2m in height from floor, 15m away from ceiling.



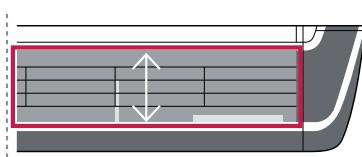
Airflow path and improved heat exchanger's performance.

### Outlet Space

**Conventional**

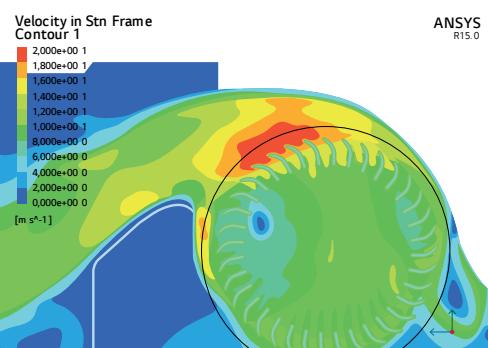


**Current**



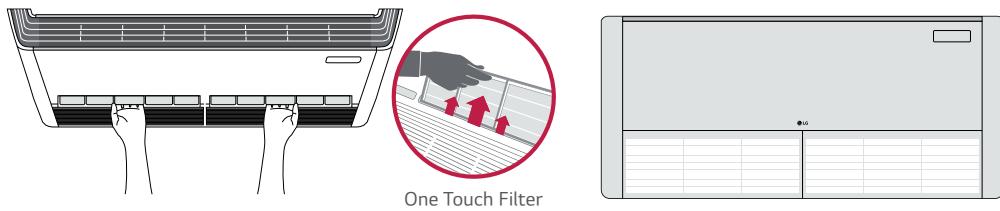
**115% ENLARGED**

### Optimized the Airflow Path



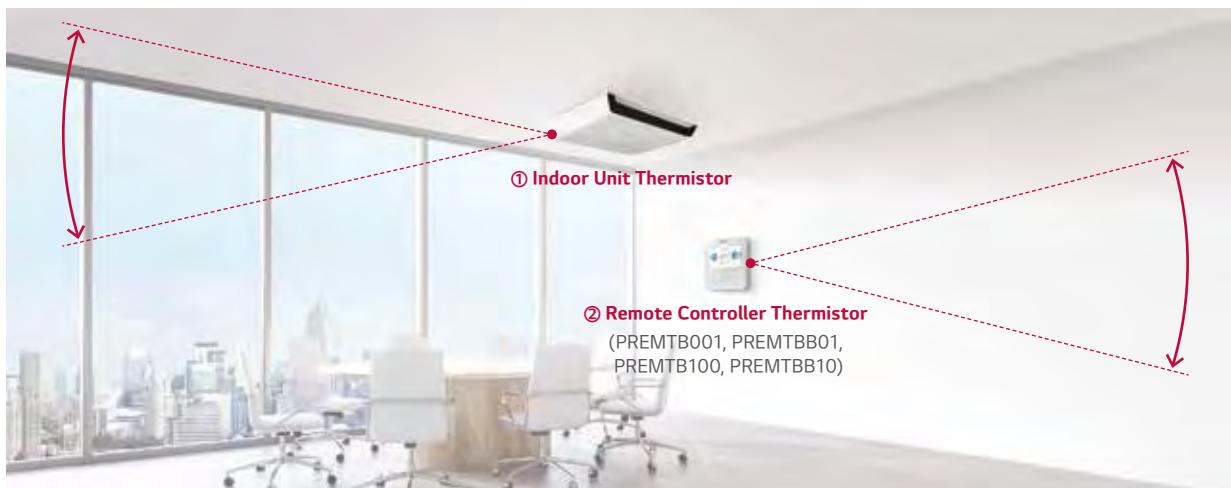
## One Touch & 2 Piece Filter

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



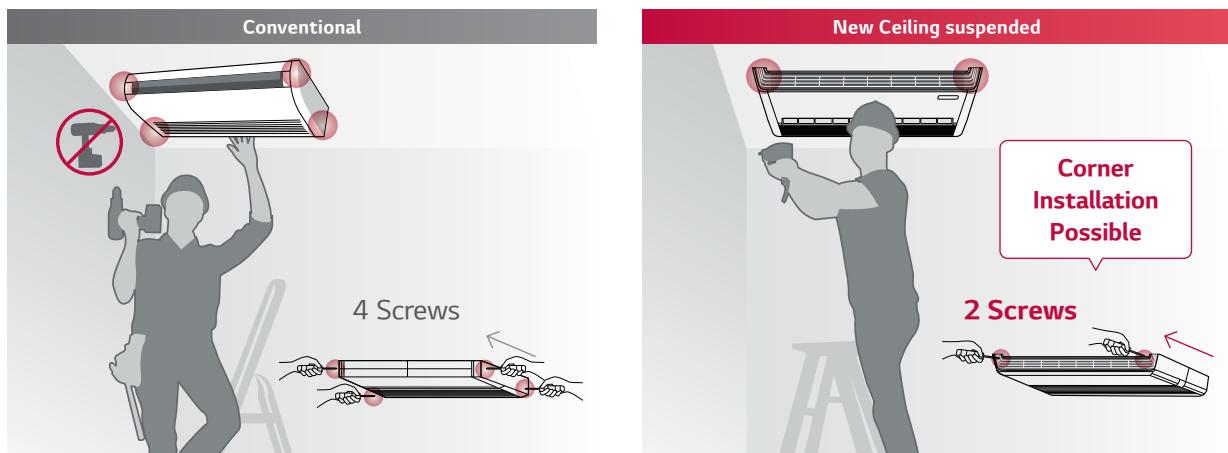
## Two Thermistors Control

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.



# CEILING SUSPENDED

## H-INVERTER (R32)

UV18FH / UV24FH / UV30FH

UUB1 U20      UUC1 U40



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

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
INDOOR			UV18FH N10	UV24FH N20	UV30FH N20
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	17 / 15 / 13	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
Weight	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
OUTDOOR			UUB1 U20	UUC1 U40	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker	Min.	A	20	25	
Power Supply Cable (Included Earth)		No x mm³	3C x 2.5	3C x 2.5	
Dimensions	Net	W x H x D mm	870 x 650 x 330	950 x 834 x 330	
Weight	Net	kg	44.5	57.7	
Compressor	Type	-	Twin Rotary	Twin Rotary	
Refrigerant	Type	-	R32	R32	
	GWP (Global Warming Potential)	-	675	675	
	Precharged Amount	kg	1.2	1.9	
	t-CO₂eq	-	0.81	1.283	
	Additional Charge (After 7.5m)	g/m	20	40	
Fan	Air Flow Rate	Rated m³/min x No.	50 x 1	58 x 1	
Total Piping Length		Min. / Max. m	5 / 30	5 / 50	
Piping Elevation	IDU - ODU	Max. m	30	30	

Note :

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

# CEILING SUSPENDED

## H-INVERTER (R32)

UV36FH / UV42FH



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UUD1 U30



COMBINATION			36	42
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.8	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	dB(A)	50 / 50	51 / 52
ODU Sound Power Level	Cooling	dB(A)	66	69
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 / 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	Body	kg	37.4	37.4
Sound Pressure Level	Cooling	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 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	
Refrigerant	Type	-	R32	
	GWP (Global Warming Potential)	-	675	
	Precharged Amount	kg	3.0	
	t-CO <sub>2</sub> eq	-	2.025	
Fan	Air Flow Rate	Rated m³/min x No.	40	
Total Piping Length		Min. / Max. m	55 x 2	
Piping Elevation	IDU - ODU	Max. m	5 / 85	

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)

# CEILING SUSPENDED

## H-INVERTER (R32)

### UV36FH / UV42FH



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### UUID3 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	0.50 / 2.50 / 3.75	0.70 / 3.64 / 4.91
	Heating	Min. / Rated / Max. kW	0.50 / 2.54 / 3.56	0.80 / 3.75 / 4.88
Running Current	Cooling	Rated A	4.0	5.7
	Heating	Rated A	4.1	5.9
EER / COP		kWh / kWh	3.80 / 4.25	3.32 / 3.60
SEER / SCOP		kWh / kWh	6.7 / 4.3	6.6 / 4.3
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	5.5
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	50 / 50	51 / 52
ODU Sound Power Level	Cooling	Rated dB(A)	66	69
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 / 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	Body	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			UUID3 U30	
Power Supply		Ø / V / Hz	3 / 380-415 / 50	
Circuit Breaker	Min.	A	20	
Power Supply Cable (Included Earth)		No x mm³	5C x 2.5	
Dimensions	Net	W x H x D mm	950 x 1,380 x 330	
Weight	Net	kg	85	
Compressor	Type	-	Inverter Scroll	
Refrigerant	Type	-	R32	
	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.
- 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)

# CEILING SUSPENDED

## STANDARD INVERTER (R32)

UV18F / UV24F / UV30F

UUB1 U20      UUC1 U40



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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
INDOOR			UV18F N10	UV24F N10	UV30F N10
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
OUTDOOR			UUB1 U20	UUC1 U40	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker	Min	A	20	25	
Power Supply Cable (Included Earth)		No x mm³	3C x 2.5	3C x 2.5	
Dimensions	Net	W x H x D mm	870 x 650 x 330	950 x 834 x 330	
Weight	Net	kg	44.5	57.7	
Compressor	Type	-	Twin Rotary	Twin Rotary	
Refrigerant	Type	-	R32	R32	
	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.
- 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)

# CEILING SUSPENDED

## STANDARD INVERTER (R32)

UV36F / UV42F / UV48F / UV60F



UUUD1 U30



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COMBINATION			36	42	48	60
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.5	4.8 / 12.1 / 14.2	5.4 / 13.4 / 15.7	5.8 / 14.4 / 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
INDOOR			UV36F N20	UV42F N20	UV48F N20	UV60F N20
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	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			
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
OUTDOOR			UUUD1 U30			
Power Supply		Ø / V / Hz	1 / 220-240 / 50			
Circuit Breaker	Min	A	40			
Power Supply Cable (Included Earth)		No x mm³	3C x 6.0			
Dimensions	Net	W x H x D mm	950 x 1,380 x 330			
Weight	Net	kg	85			
Compressor	Type	-	Inverter Scroll			
Refrigerant	Type	-	R32			
	GWP (Global Warming Potential)	-	675			
	Precharged Amount	kg	3.0			
	t-CO₂eq	-	2.025			
Fan	Air Flow Rate	Rated m³/min x No.	40			
Total Piping Length		Min. / Max. m	55 x 2			
Piping Elevation	IDU - ODU	Max m	5 / 85			

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)

# CEILING SUSPENDED

## STANDARD INVERTER (R32)

UV36F / UV42F / UV48F / UV60F



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Check ongoing validity of certification  
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**UUD3 U30**



COMBINATION		36	42	48	60
Capacity	Cooling	Min. / Rated / Max. kW	3.8 / 9.5 / 12.5	4.8 / 12.1 / 14.2	5.4 / 13.4 / 15.7
	Heating	Min. / Rated / Max. kW	4.3 / 10.8 / 13.4	5.4 / 13.5 / 15.8	6.2 / 15.5 / 17.5
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.65 / 4.03	0.80 / 3.90 / 5.07	0.90 / 4.50 / 5.85
	Heating	Min. / Rated / Max. kW	0.50 / 2.60 / 3.54	0.80 / 3.75 / 4.88	0.90 / 4.77 / 5.82
Running Current	Cooling	Rated A	4.2	6.1	7.0
	Heating	Rated A	4.1	5.9	7.3
EER / COP		kWh / kWh	3.59 / 4.15	3.10 / 3.60	2.98 / 3.25
SEER / SCOP		kWh / kWh	6.3 / 4.1	6.3 / 4.1	5.9 / 4.1
Pdesign	Cooling @ 35°C	kW	9.5	12.1	13.4
	Heating @ -10°C	kW	9.5	9.5	9.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	- / -	- / -
Annual Energy Consumption	Cooling / Heating	kWh	528 / 3,244	1,152 / 3,244	1,363 / 3,244
Dehumidification Rate		l/h	3.6	5.5	6.3
ODU Sound Pressure Level	Cooling / Heating	dB(A)	50 / 50	51 / 52	52 / 53
ODU Sound Power Level	Cooling	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
INDOOR		UV36F N20	UV42F N20	UV48F N20	UV60F N20
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	50 / 35 / 28	50 / 35 / 28	59 / 40 / 28
Air Flow Rate	H / M / L	m³/min	28 / 24 / 20	28 / 24 / 20	30 / 25 / 20
Dimensions	Body	W x H x D mm	1,600 x 235 x 690	1,600 x 235 x 690	1,600 x 235 x 690
Weight	Body	kg	36.7	36.7	36.7
Sound Pressure Level	Cooling	H / M / L	46 / 43 / 40	46 / 43 / 40	48 / 44 / 40
Sound Power Level	Cooling	Max. dB (A)	62	62	63
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
OUTDOOR		UUD3 U30			
Power Supply	Ø / V / Hz		3 / 380-415 / 50		
Circuit Breaker	Min.	A		20	
Power Supply Cable (Included Earth)		No x mm³		5C x 2.5	
Dimensions	Net	W x H x D mm		950 x 1,380 x 330	
Weight	Net	kg		85	
Compressor	Type	-		Inverter Scroll	
Refrigerant	Type	-		R32	
	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.
- 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)

# CEILING SUSPENDED

## COMPACT INVERTER (R32)

UV18F / UV24F / UV30F / UV36F

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 / 10.5
	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
INDOOR			UV18F N10	UV24F N10	UV30F N10	UV36F N20
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	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
OUTDOOR			UUA1 ULO	UUB1 U20	UUC1 U40	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker	Min.	A	15	20	25	
Power Supply Cable (Included Earth)		No x mm³	3C x 1.5	3C x 2.5	3C x 2.5	
Dimensions	Net	W x H x D mm	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330	
Weight	Net	kg	33.3	44.5	57.7	
Compressor	Type	-	Twin Rotary	Twin Rotary	Twin Rotary	
Refrigerant	Type	-	R32	R32	R32	
	GWP (Global Warming Potential)	-	675	675	675	
	Precharged Amount	kg	1.0	1.2	1.9	
	t-CO₂eq	-	0.675	0.81	1.283	
Additional Charge (After 7.5m)		g/m	20	40	40	
Fan	Air Flow Rate	Rated m³/min x No.	28 x 1	50 x 1	58 x 1	
Total Piping Length		Min. / Max. m	5 / 30	5 / 35	5 / 50	
Piping Elevation	IDU - ODU	Max. m	30	30	30	

### Note :

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

# CONSOLE



# CONSOLE

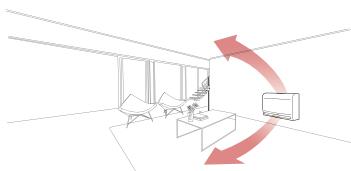
## Optimized Air Flow for Cooling & Heating

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

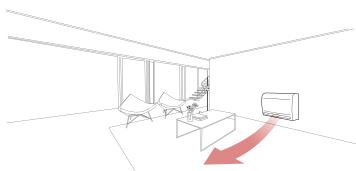
### Cooling



### Heating (Normal)



### Heating (Floor Heating Mode)



## Quick Floor Heating

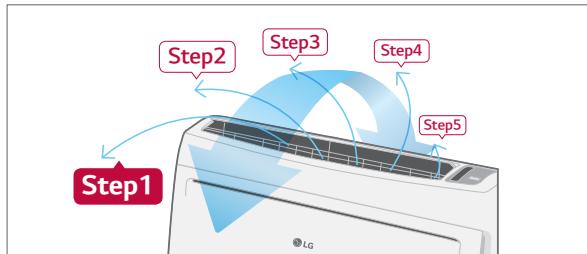
Console air conditioners portray high speed and powerful performance. Using the floor heating mode, console air conditioners provide floor heating at a faster pace in order to reach desired temperature more quickly.

	Company A	Electric Heater	LG	LG Floor Heating Mode
27°C	Vertical			
15°C	Horizontal			
Lead Time for Heating (13°C ~ 21°C)	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

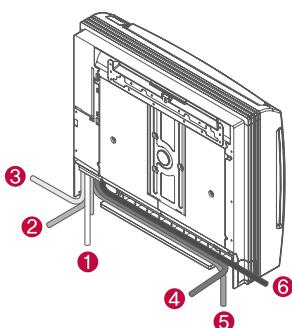
## 5-Step Vane Control

There are 5 different stages to control air flow direction.

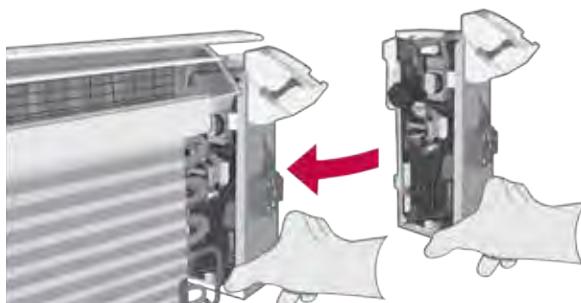


## Easy Installation and Service

### 6 Different Ways to Install Piping



### Easy Slide-type PCB



**STANDARD INVERTER (R32)****UQ09F / UQ12F / UQ18F****UUA1 ULO    UUB1 U20**

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<b>COMBINATION</b>			<b>9</b>	<b>12</b>	<b>18</b>
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	dB(A)	49 / 52	49 / 52	47 / 52
ODU Sound Power Level	Cooling	dB(A)	65	65	63
	Liquid	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
Piping Connections	Gas	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Connections Method	-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-15 / 50	-15 / 50	-15 / 50
	Heating	Min. / Max. °C	-20 / 18	-20 / 18	-20 / 18
<b>INDOOR</b>			<b>UQ09F NAO</b>	<b>UQ12F NAO</b>	<b>UQ18F NAO</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	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	38 / 32 / 27	38 / 32 / 27	44 / 39 / 35
Sound Power Level	Cooling	Max.	59	59	60
Piping Connections	Drain	O.D. / I.D. mm	Ø16.7 / 12.2	Ø16.7 / 12.2	Ø16.7 / 12.2
<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	

## 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)

# FLOOR STANDING



# FLOOR STANDING

## Stylish Design

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



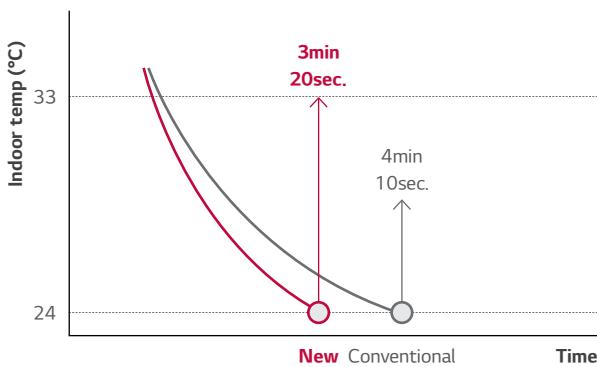
reddot design award  
winner 2013



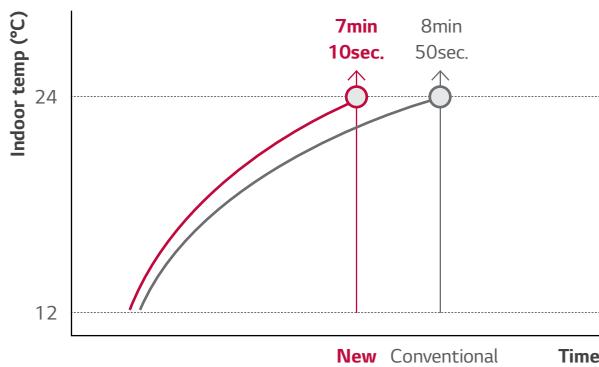
## Quick Response

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

### Cooling

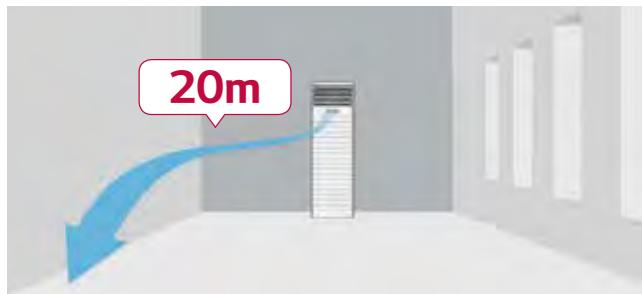


### Heating



## Powerful Air Flow

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



# FLOOR STANDING

## 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.	kW	16.0
Power Input (Set)	Cooling	Nom.	kW	4.2
	Heating	Nom.	kW	4.5
Power Input (Indoor)		Nom.	W	200
Running Current	Cooling / Heating	Nom.	A	18.1 / 19.5
Power Supply		Ø / V / Hz		1 / 220-240 / 50
EER				3.21
COP				3.41
SEER				5.05
SCOP				3.51
Pdesign (@ -10°C)		kW		11.5
Seasonal Energy Label	Cooling / Heating			-
Annual Energy Consumption	Cooling / Heating		kWh	-
Piping Connection	Liquid	mm (inch)		Ø9.52 (3/8)
	Gas	mm (inch)		Ø15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25
Air Flow Rate		High / Medium / Low	m³/min	31 / 27 / 23
Sound Pressure	Cooling	High / Medium / Low	dB(A)	52 / 49 / 45
Sound Power	Cooling	Max.	dB(A)	65
Dehumidification Rate			l/h	5.0
Dimensions	Body	W x H x D	mm	590 x 1,840 x 460
Net Weight	Body		kg	50.0
OUTDOOR				UU48W U32
Compressor	Type			Twin Rotary
Airflow Rate	Nom	m³/min		110
Sound Pressure	Cooling	Nom	dB(A)	52
	Heating	Nom	dB(A)	54
Sound Power	Cooling	Max	dB(A)	72
Dimensions	W x H x D		mm	950 x 1,380 x 330
Net Weight		kg		92.0
Refrigerant	Type	-		R410A
	Charge	g		3400
	Additional Charge	g/m		40
	GWP	-		2087.5
	TCO <sub>2</sub> eq	-		7.1
Operation Range (Outdoor)	Cooling	Min. / Max.	°C DB	-15 / 48
	Heating	Min. / Max.	°C WB	-18 / 18
Power Supply		Ø / V / Hz	1 / 220-240 / 50	3 / 380-415 / 50
Power Supply Cable		No. x mm <sup>2</sup>	3C x 5.0	5C x 5.0
Transmission Cable		No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75
Circuit Breaker		A	40	20
Piping Length Total		Min. / Max.	m	5 / 75
Piping Elevation Difference	IDU - ODU	Max.	m	30
Piping Connection	Liquid	mm (inch)	Ø9.52 (3/8)	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



# WALL MOUNTED

## Saving Operation Cost

### High Energy Efficiency

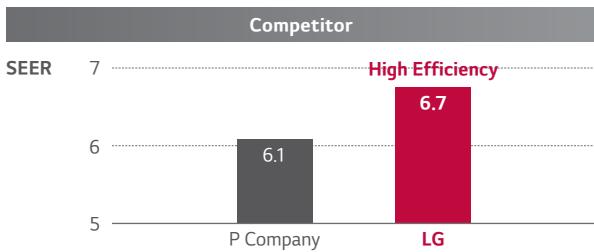


The advanced technologies of LG achieve lower energy consumption, especially in cooling as can be seen from the SEER class given according to ErP Regulations.

Server room need to be operated continuously.

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

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



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

Indoor unit : 7.1kW Wall mounted unit

※ Performances are based on the following conditions :

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

### LG Server Room Solution

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

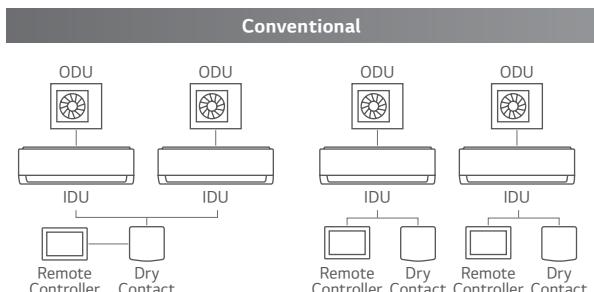
#### SEER class (ErP regulation)

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

## Easy Installation

### Simplified Connection

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



#### • Higher product cost

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

#### • Higher installation cost

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

#### • Design & Installation difficulties

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



#### • Lower product cost

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

#### • Lower installation cost

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

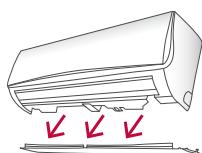
#### • Easy Design & Installation

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

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

### Detachable Bottom Cover

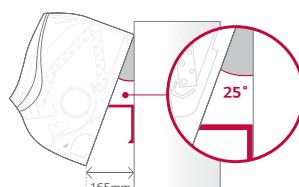
The bottom cover is detachable when needed, making installation easier. Disassembly or additional support of the unit is unnecessary. Installation can be completed by one individual with LG's patented support tool.



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

### Installation Support Clip

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



# Stable & Reliable Operation

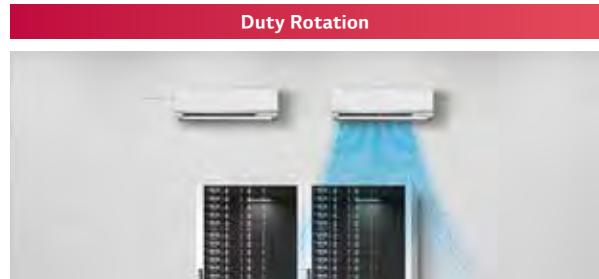
## Duty Rotation

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



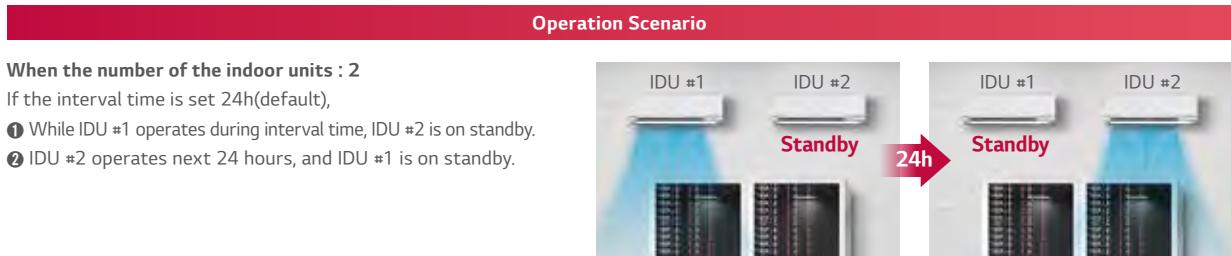
### Air Conditioners' Overworking

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



### Stable & Safe Operation

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



## 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



# WALL MOUNTED

## 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

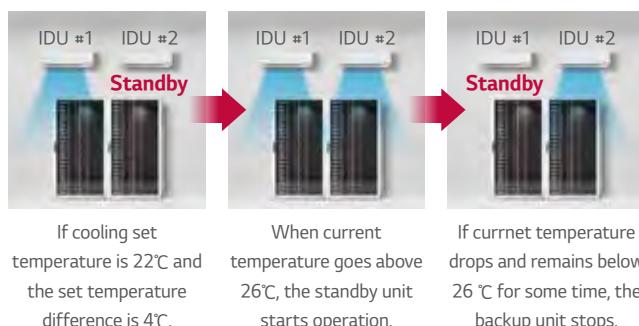
- Stable operation due to the over capacity by back-up operation
- Prevent air conditioners from overload
- Protect server from overheating
- No need for manual controls as they protect from overheating automatically

### 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.

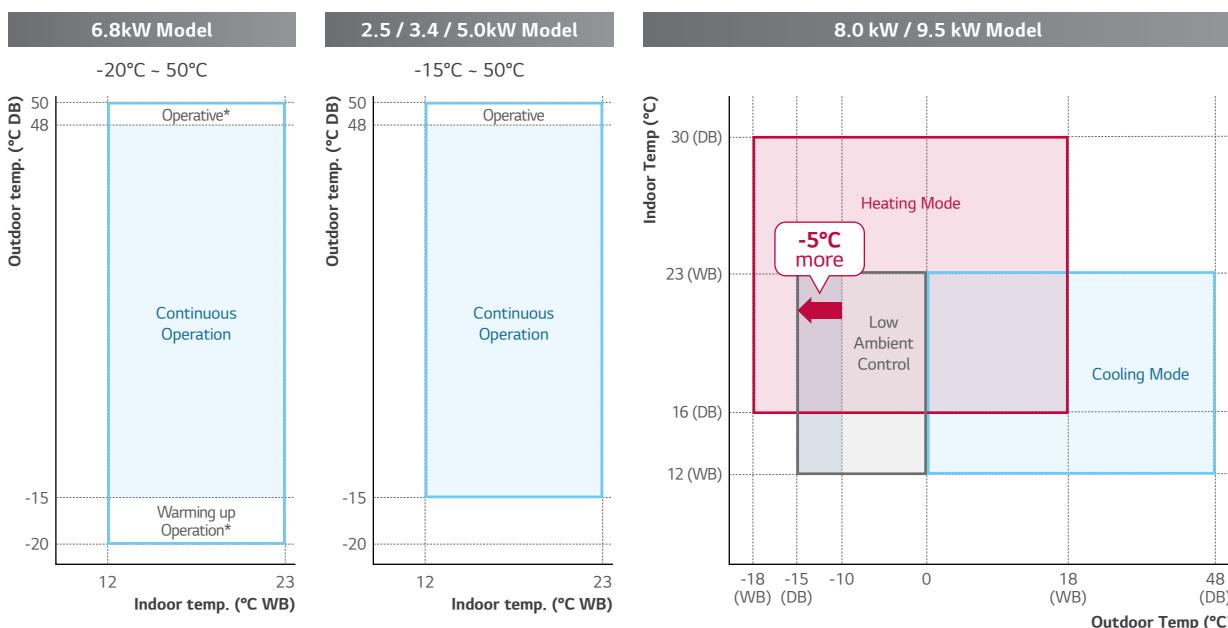


If current temperature drops and remains below 26 °C for some time, the backup unit stops.

※ 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.

# WALL MOUNTED

## STANDARD INVERTER (R32)

MJ09PC / MJ12PC

UUA1 ULO



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COMBINATION		9	12
Capacity	Cooling	Min. / Rated / Max. kW	1.50 / 2.50 / 3.20
	Heating	Min. / Rated / Max. kW	1.80 / 3.20 / 3.70
Power Input	Cooling	Min. / Rated / Max. kW	0.30 / 0.58 / 0.84
	Heating	Min. / Rated / Max. kW	0.30 / 0.71 / 0.85
Running Current	Cooling	Rated A	2.60
	Heating	Rated A	3.20
EER / COP		kWh / kWh	4.30 / 4.50
SEER / SCOP		kWh / kWh	7.00 / 4.00
P Design	Cooling @ 35°C	kW	2.5
	Heating @-10°C	kW	2.8
Seasonal Energy Label	Cooling / Heating	-	A++ / A+
Annual Energy Consumption	Cooling / Heating	kWh	125 / 980
Dehumidification Rate		ℓ/h	1.90
ODU Sound Pressure Level	Cooling	Rated dB(A)	49
	Heating	Rated dB(A)	52
ODU Sound Power Level	Cooling	Rated dB(A)	65
	Heating	Rated dB(A)	-
Piping Connections	Liquid	Outer Dia. mm (inch)	Ø 6.35 (1/4)
	Gas	Outer Dia. mm (inch)	Ø 9.52 (3/8)
Connections Method			Flare
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-15 / 50
	Heating	Min. / Max. °C	-20 / 18
INDOOR		MJ09PC NSJ	MJ12PC NSJ
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Power Input	Min. / Nom. / Max.	W	11 / 18 / 30
Air Flow Rate	H / M / L	m³/min	7.6 / 6.2 / 4.8
Dimensions	Body W x H x D	mm	818 x 316 x 189
Weight	Body kg (lbs)		8.2 (18.1)
	Shipping kg (lbs)		10.2 (22.5)
Sound Pressure Level	Cooling H / M / L	dB(A)	36 / 32 / 27
Sound Power Level	Cooling Max.	dB(A)	56
Piping Connections	Drain O.D. / I.D.	mm	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
Refrigerant	Type -		R32
	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

# WALL MOUNTED

## STANDARD INVERTER (R32)

MJ18PC / MJ24PC

UUB1 U20    UUC1 U40



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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)
Operation Range (Outdoor)	Connections Method		Flare	Flare
	Cooling	Min. / Max. °C	-15 / 50	-20 / 50
	Heating	Min. / Max. °C	-20 / 18	-20 / 18
INDOOR			<b>MJ18PC NSK</b>	<b>MJ24PC NSK</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input	Min. / Nom. / Max.	W	26 / 39 / 60	27 / 45 / 60
Air Flow Rate	H / M / L	m³/min	15.8 / 12.4 / 10.0	16.9 / 12.8 / 10.4
Dimensions	Body	W x H x D mm	975 x 354 x 209	975 x 354 x 209
Weight	Body	kg (lbs)	10.9 (24.0)	11.5 (25.4)
	Shipping	kg (lbs)	13.9 (30.6)	14.5 (32.0)
Sound Pressure Level	Cooling	H / M / L dB(A)	44 / 38 / 34	46 / 41 / 36
Sound Power Level	Cooling	Max dB(A)	59	65
Piping Connections	Drain	O.D. / I.D. mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
OUTDOOR			<b>UUB1 U20</b>	<b>UUC1 U40</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker	Min	A	20	25
Power Supply Cable (included Earth)		No. x mm²	3C x 2.5	3C x 2.5
Dimensions	Net	W x H x D mm	870 x 650 x 330	950 x 834 x 330
Weight	Net	kg	44.5	57.7
Compressor	Type	-	Twin Rotary	Twin Rotary
Refrigerant	Type	-	R32	R32
	GWP (Global Warming Potential)	-	675	675
	Precharged Amount	kg	1.2	1.9
	t-CO <sub>2</sub> eq.	-	0.810	1.283
	Control	-	EEV	EEV
	Additional Charging Volume	g/m	20	40
	Air Flow Rate	Rated m³/min x No.	50 x 1	58 x 1
Total Piping Length	Min. / Max.	m	5.0 / 35.0	5.0 / 50.0
Piping Elevation	IDU-ODU	m	30	30

# WALL MOUNTED

## STANDARD INVERTER (R32)

US30F / US36F



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UUC1 U40    UUD1 U30    UUD3 U30



COMBINATION		30	36	36
Capacity	Cooling	Min. / Rated / Max. kW	3.2 / 8.0 / 9.0	3.8 / 9.5 / 12.5
	Heating	Min. / Rated / Max. kW	3.6 / 9.0 / 10.0	4.3 / 10.8 / 13.4
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.50 / 2.28 / 3.17	0.30 / 2.57 / 3.91
	Heating	Min. / Rated / Max. kW	0.50 / 2.5 / 3.20	0.50 / 2.77 / 3.77
Running Current	Cooling	Rated A	10.1	11.4
	Heating	Rated A	11.1	12.2
EER / COP		kWh / kWh	3.51 / 3.60	3.70 / 3.90
SEER / SCOP		kWh / kWh	7.0 / 4.3	6.10 / 3.85
Pdesign	Cooling @ 35°C	kW	8	9.5
	Heating @ -10°C	kW	5.4	8.7
Seasonal Energy Label	Cooling / Heating	-	A++ / A+	A++ / A
Annual Energy Consumption	Cooling / Heating	kWh	400 / 1,758	545 / 3,164
Dehumidification Rate		l/h	2.9	3.8
ODU Sound Pressure Level	Cooling / Heating	dB(A)	50 / 52	50 / 50
ODU Sound Power Level	Cooling	Rated dB(A)	68	66
Piping Connections	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method	-	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-20 ~ 50	-20 ~ 52
	Heating	Min. / Max. °C	-20 ~ 18	-25 ~ 18
INDOOR		US30F NRO	US36F NRO	US36F NRO
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)	H / M / L	W	47 / 42 / 36	65 / 47 / 42
Air Flow Rate	H / M / L	m3/min	21 / 17 / 13	25 / 21 / 17
Dimensions	Body	W x H x D mm	1,200 x 360 x 265	1,200 x 360 x 265
Weight	Body	kg	18.3	18.3
Sound Pressure Level	Cooling	H / M / L dB(A)	46.0 / 42.0 / 38.0	51.0 / 46.0 / 42.0
Sound Power Level	Cooling	Max. dB(A)	62	65
Piping Connections	Drain	O.D. / I.D. mm	Ø21.5 / 16.0	Ø21.5 / 16.0
OUTDOOR		UUC1 U40	UUD1 U30	UUD3 U30
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker	Min.	A	25	40
Power Supply Cable (Included Earth)		No x mm <sup>3</sup>	3C x 2.5	3C x 6.0
Dimensions	Net	W x H x D mm	950 x 834 x 330	950 x 1,380 x 330
Weight	Net	kg	57.7	85
Compressor	Type	-	Twin Rotary	Inverter Scroll
Refrigerant	Type	-	R32	R32
	GWP (Global Warming Potential)	-	675	675
	Precharged Amount	kg	1.9	3.0
	t-CO <sub>2</sub> eq	-	1.283	2.025
	Additional Charge (After 7.5m)	g/m	40	40
Fan	Air Flow Rate	Rated m <sup>3</sup> /min x No.	58 x 1	55 x 2
Total Piping Length	Min. / Max. m		5 / 50	5 / 85
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.
- 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)

# WALL MOUNTED

## COMPACT INVERTER (R32)

**US30F / US36F**



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**UUB1 U20    UUC1 U40**



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

# AHU SOLUTION

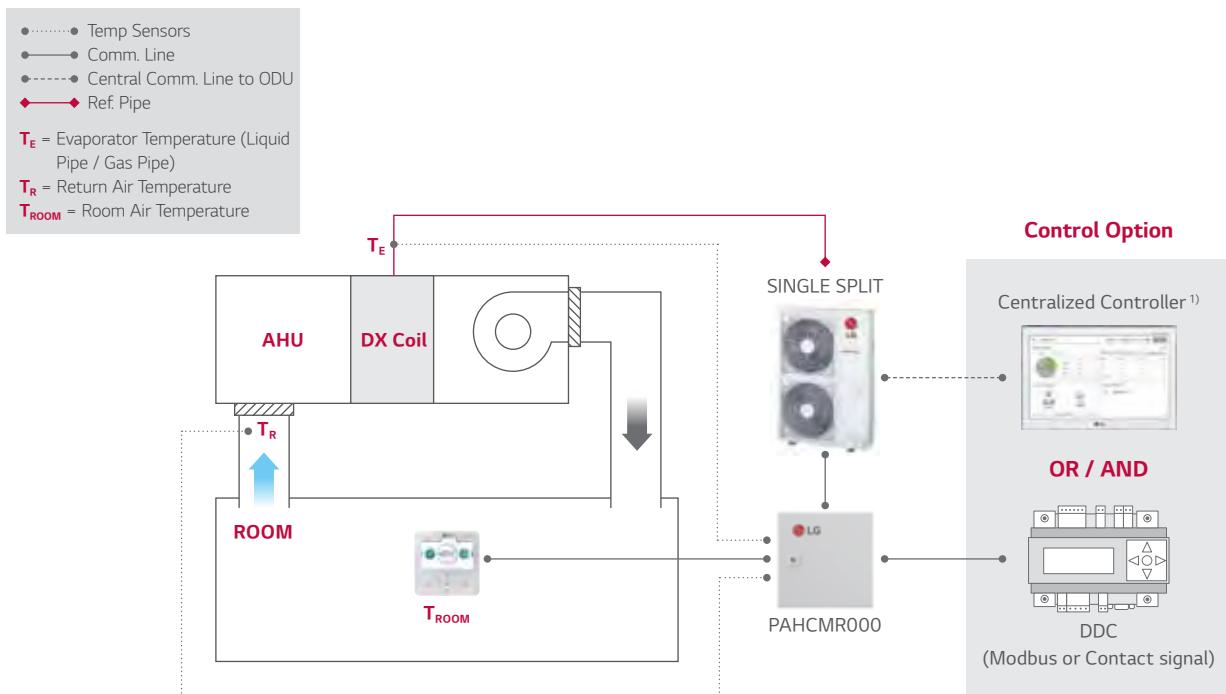


# AHU COMBINATION

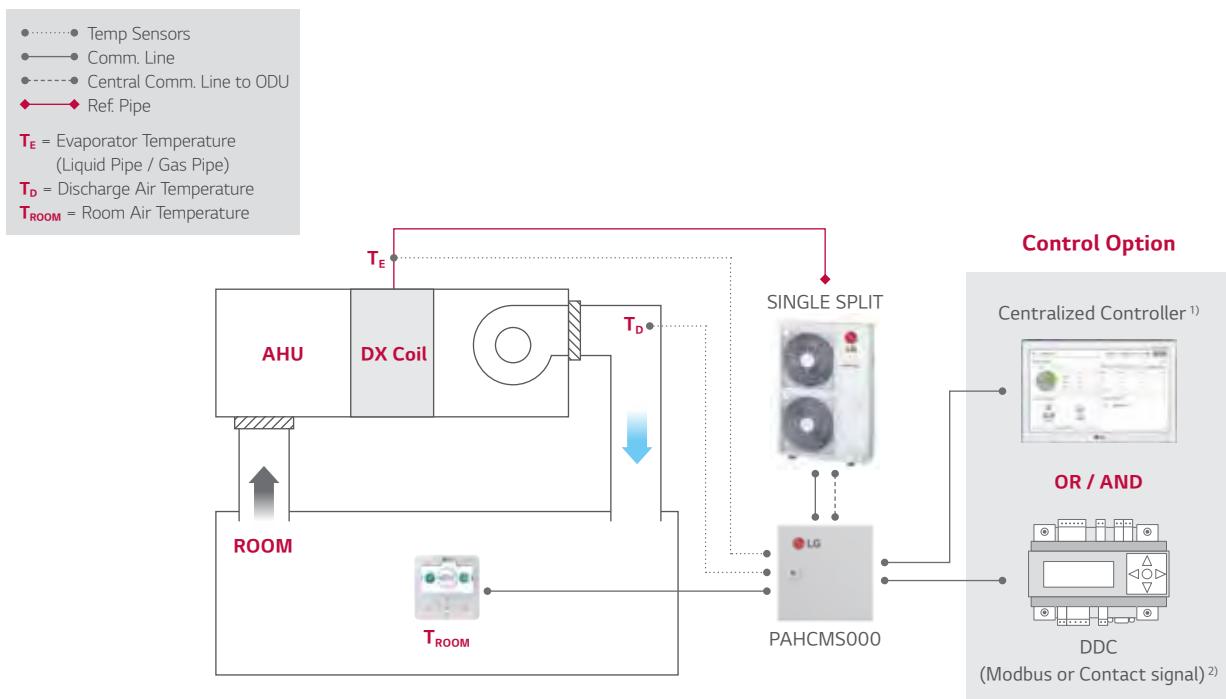
## Air Handling Applications

Economically feasible solution for pair application with air handling units.

### Return/Room Air Temperature Control



### Discharge Air Temperature Control



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

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

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

# Communication Kit



**PAHCMR000 / PAHCMS000**

## Specification

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

## Function list for Communication kit

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

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

# ACCESSORIES



# LG Wi-Fi Modem

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



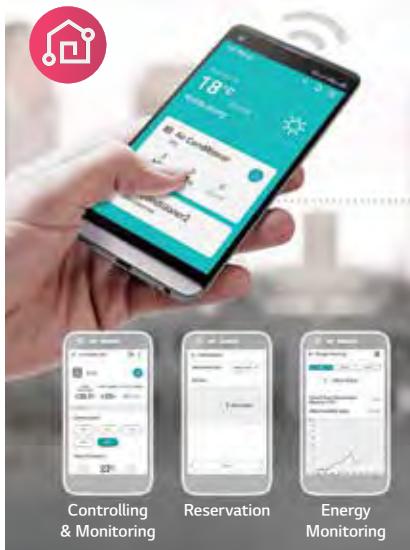
**PWFMD200**

## Features

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

Download on the  
App Store

GET IT ON  
Google Play



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

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

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

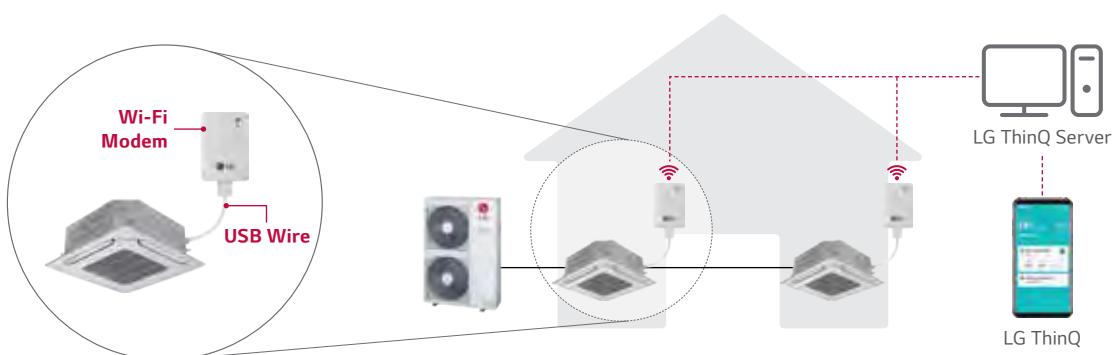
3. Application is optimized for smartphone use, so it may not be well functioning with tablet devices.

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

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

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

## Overview



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

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

# ACCESSORIES



**Standard III**  
PREMTB100



**Standard III**  
PREMTBB10



**Standard II**  
PREMTB001



**Standard II**  
PREMTBB01

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

※ Refer to each model PDB for applicable models.

## Remote Controller



**PWLSSB21H**

## PI 485



**PMNFP14A1**

Power : Single phase AC 220V 50/60Hz

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

Model applied : RAC / Multi / Single / Therma V

※ Refer to each product PDB for applicable models.

## Dry Contact



**PDRCB000**



**PDRCB400**



**PDRCB320**



**PDRCB500**

※ Refer to each product PDB for applicable models.

Model	PDRCB000	PDRCB400	PDRCB320	PDRCB500
Contact Point	1 Control Point	2 Control Point	8 Control Point	Modbus RTU
Power Input	AC 220V from outside power source	DC 5V & 12V from indoor unit PCB	DC 5V & 12V from indoor unit PCB	DC 5V & 12 V from indoor unit PDB
Voltage / Non Voltage Input	-	•	•	-
On / Off Control	•	•	•	•
Lock / Unlock	•	•	•	
Fan Speed Setting	-	-	•	•
Thermo Off	-	•	•	-
Energy Saving	-	•	-	-
Temperature Setting	-	•	•	•
Error Monitoring	•	•	•	•
Operation Monitoring	•	•	•	•

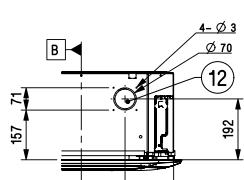
# CEILING MOUNTED CASSETTE

## H-INVERTER (R32)

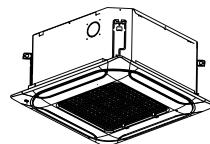
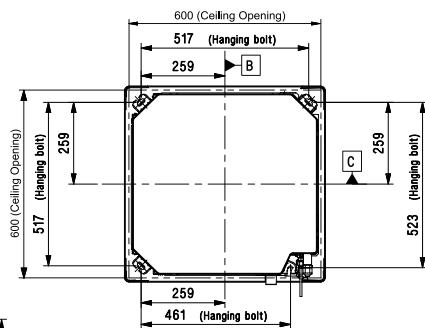
### UT09FH NQ0 / UT12FH NQ0

(Unit : mm)

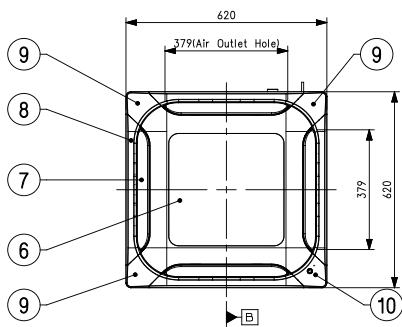
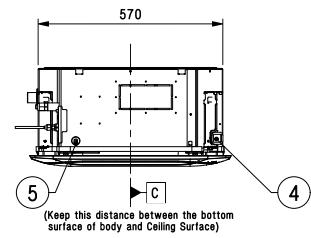
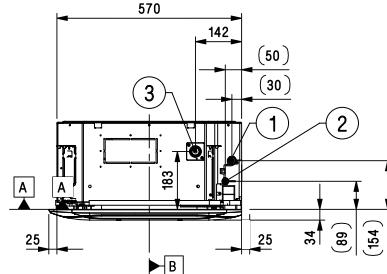
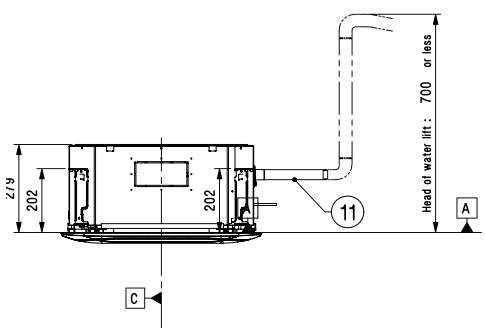
	PART NAME
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Power and Communication Cable Routing Hole
5	Wired Remote Controller Wire Routing Hole
6	Air Inlet
7	Air Outlet
8	Decoration Panel (Accessory)
9	Decoration Corner Cover
10	Decoration Corner Display Cover
11	Flexible Drain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



View A  
Fresh Air Intake hole



3D View



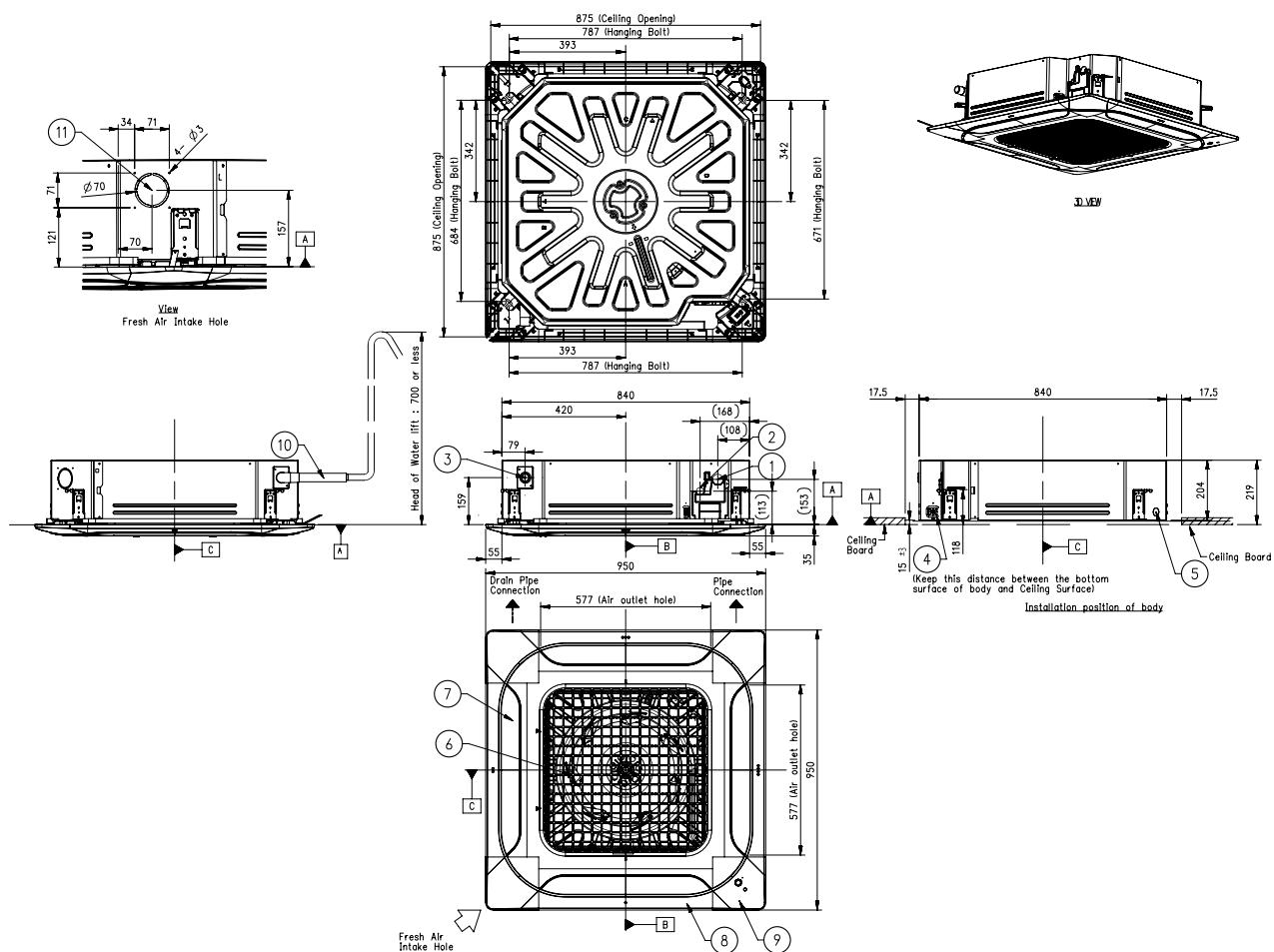
# CEILING MOUNTED CASSETTE

## H-INVERTER (R32)

### UT18FH NBO

(Unit : mm)

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



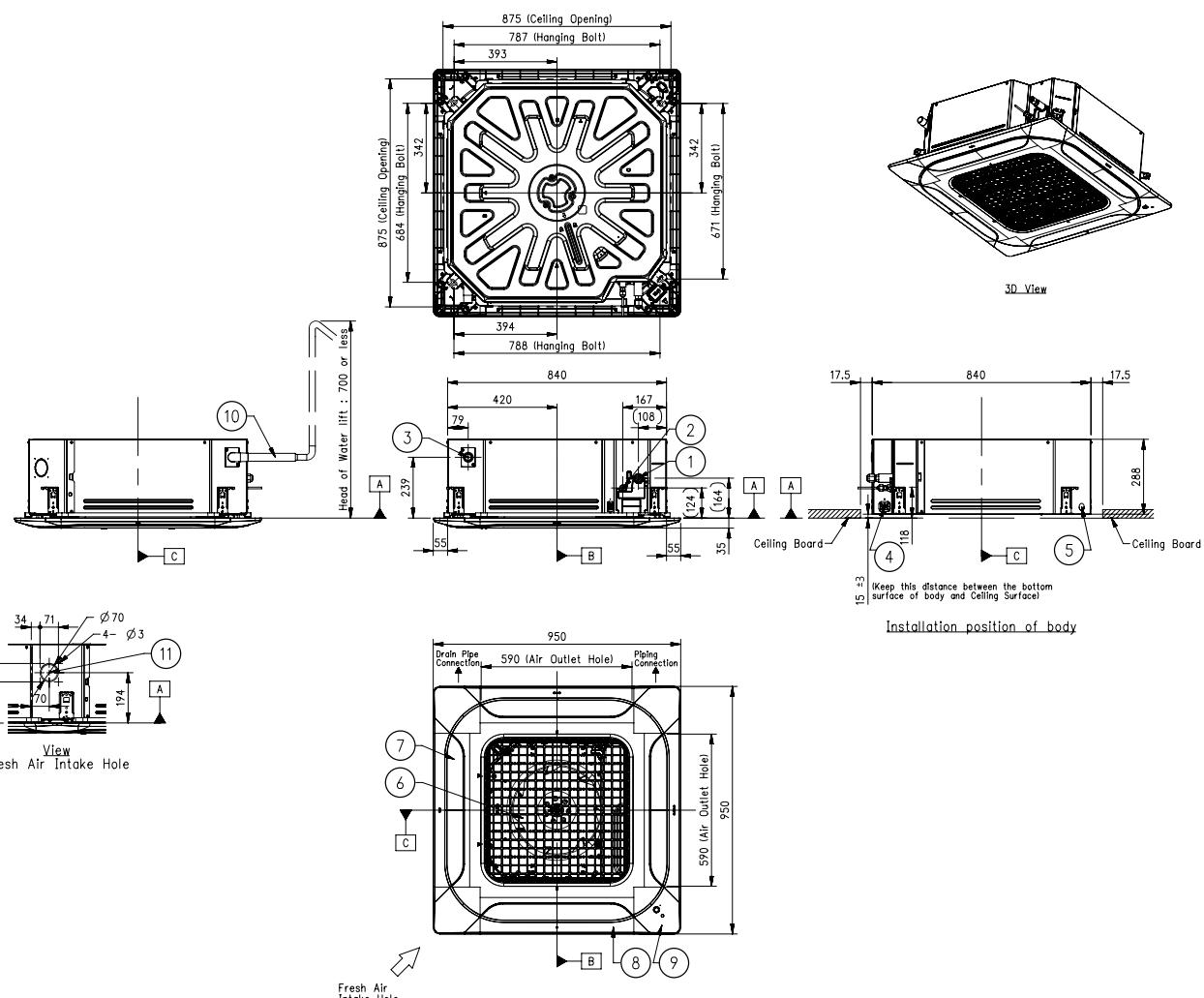
# CEILING MOUNTED CASSETTE

## 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



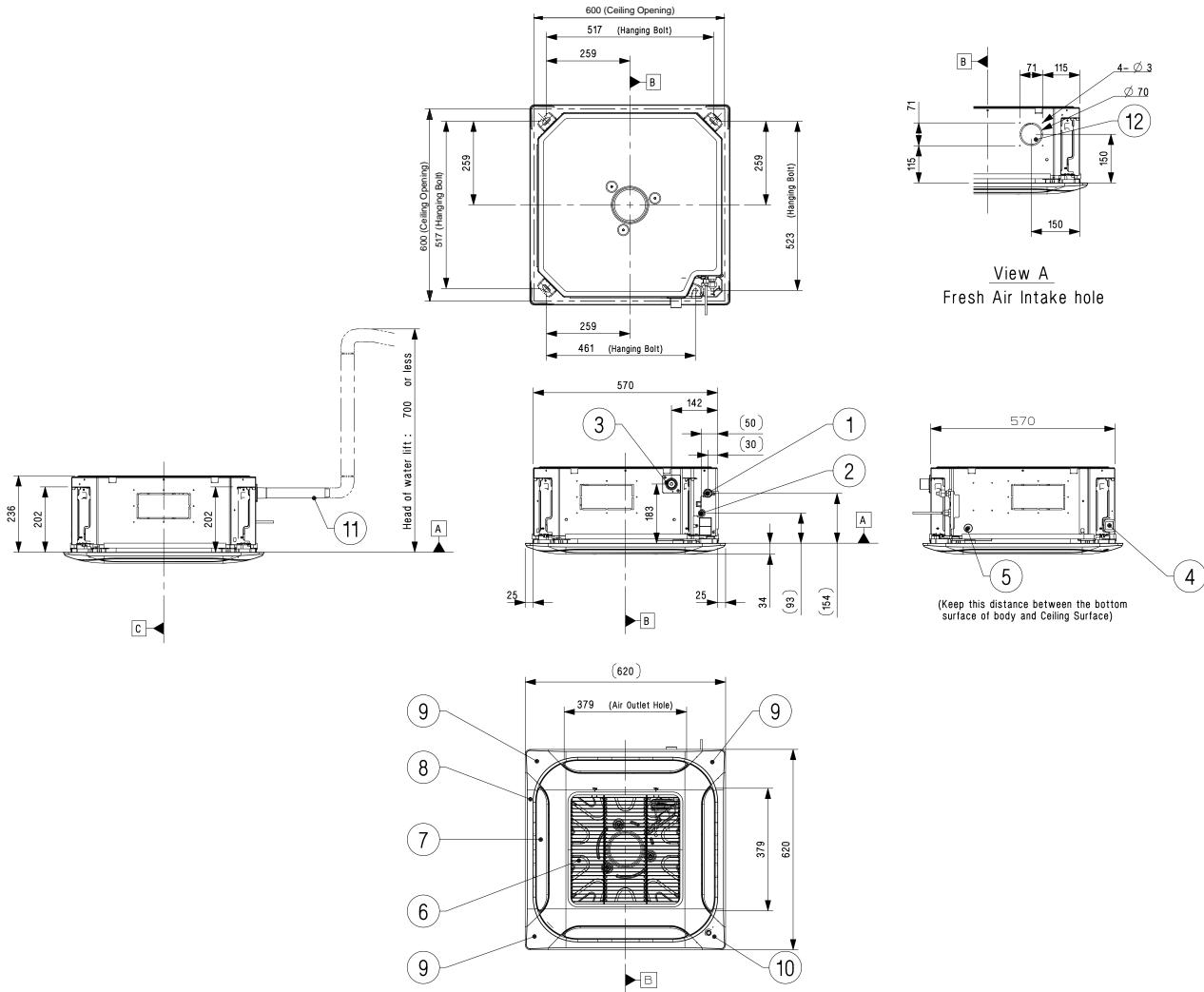
# CEILING MOUNTED CASSETTE

## STANDARD INVERTER (R32)

### CT09F NRO / CT12F NRO

(Unit : mm)

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



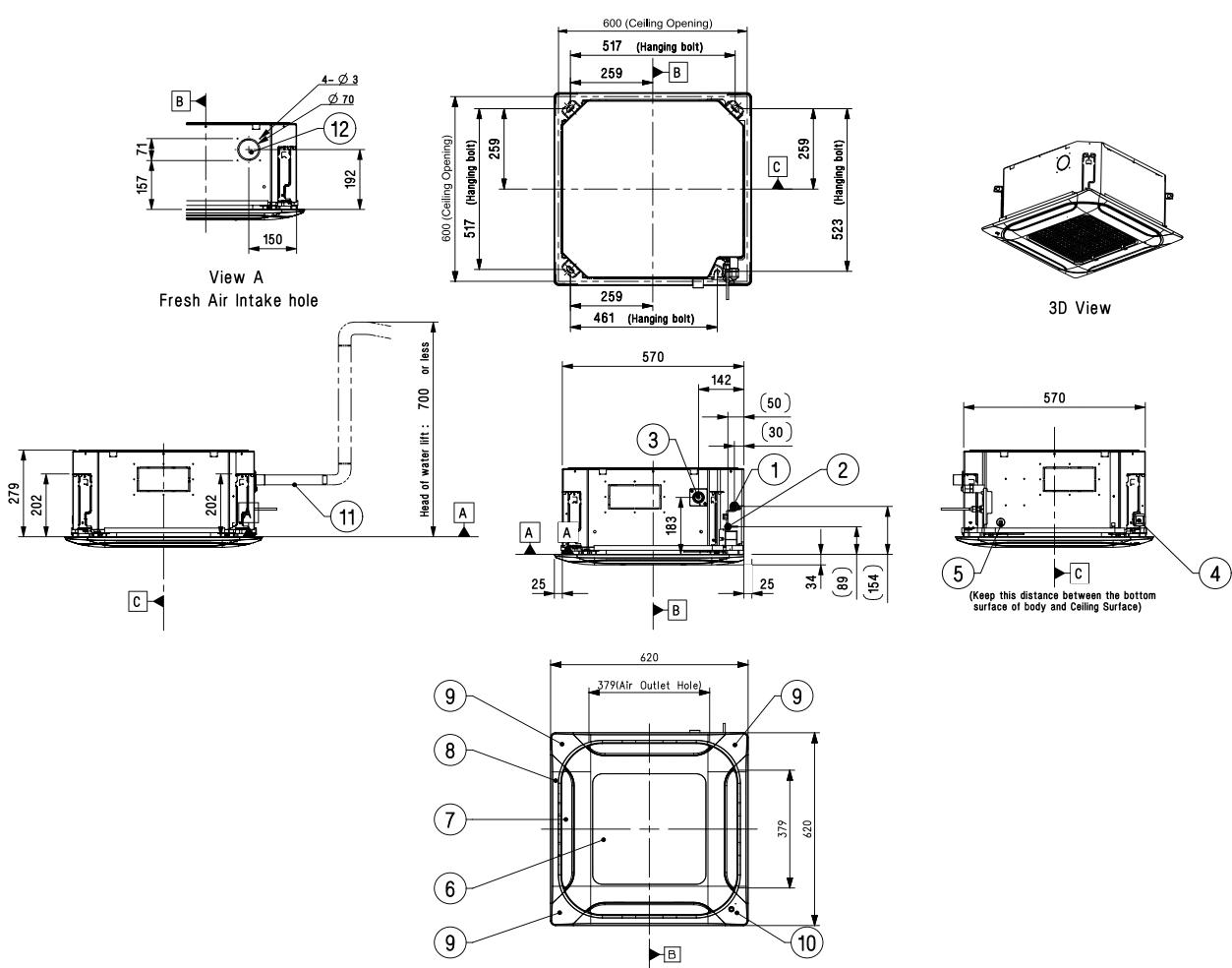
# CEILING MOUNTED CASSETTE

## STANDARD / COMPACT INVERTER (R32)

### CT18F NQ0

(Unit : mm)

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



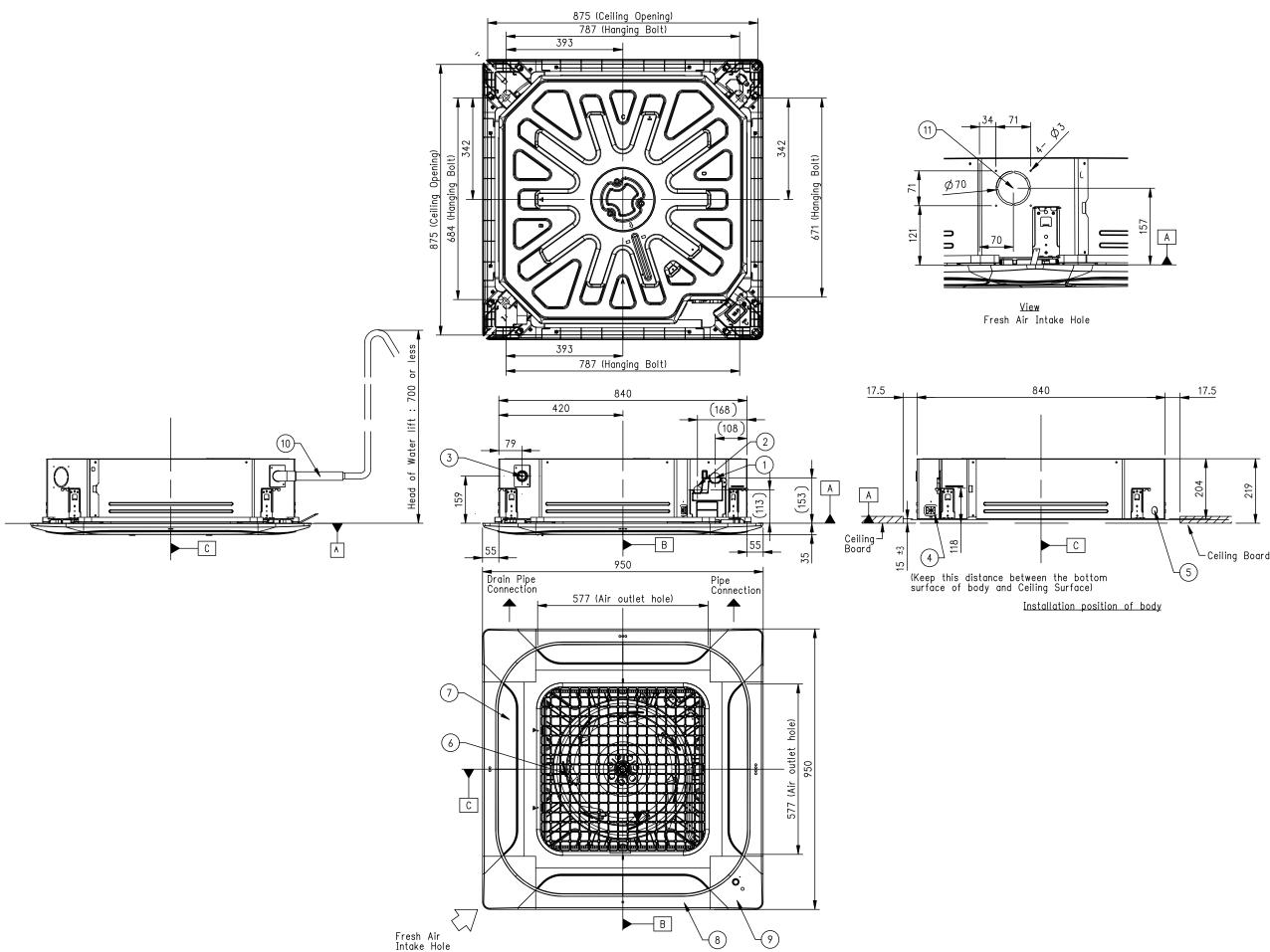
# CEILING MOUNTED CASSETTE

## STANDARD / COMPACT INVERTER (R32)

### CT24F NBO / UT30F NBO

(Unit : mm)

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



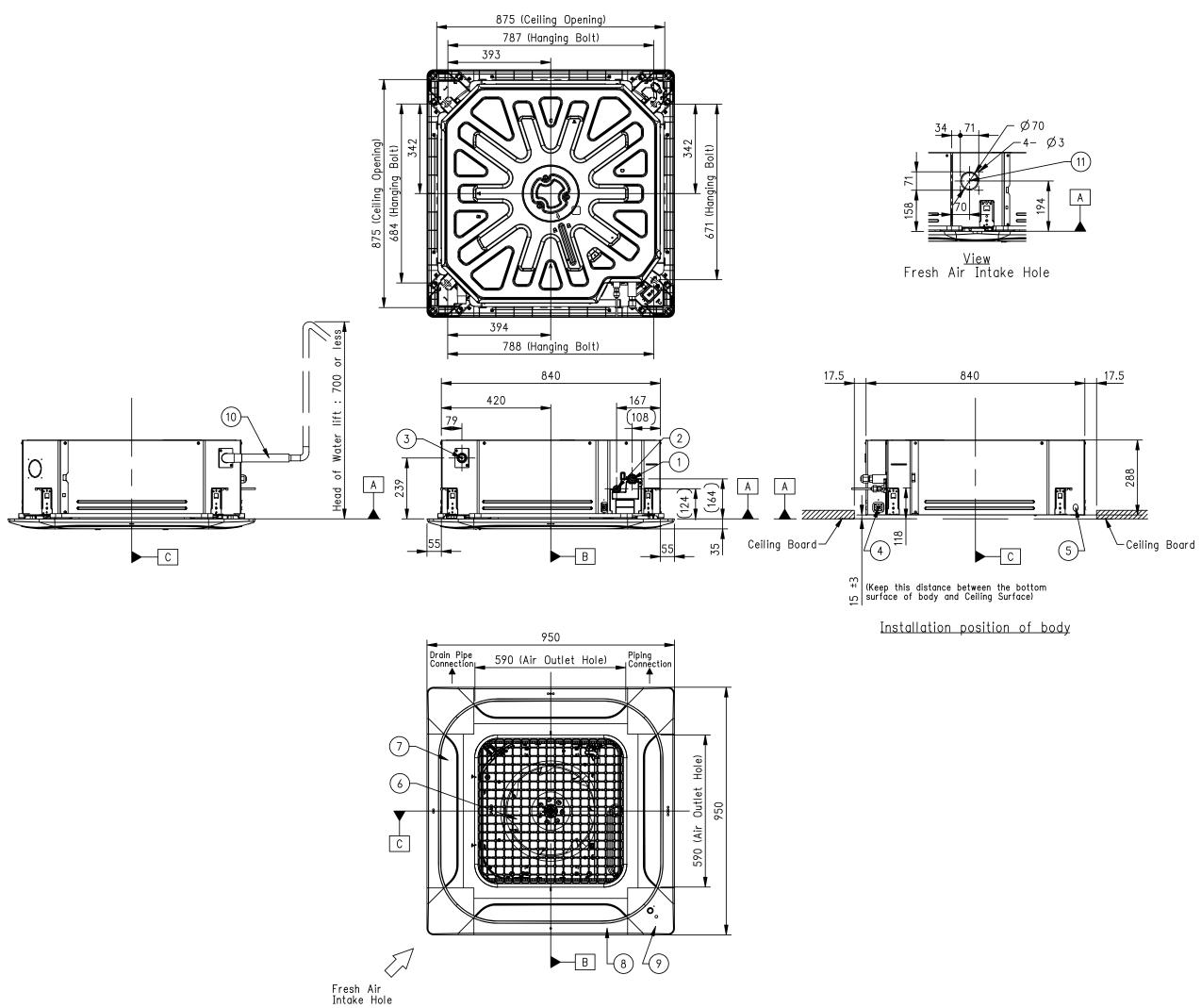
# CEILING MOUNTED CASSETTE

## 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



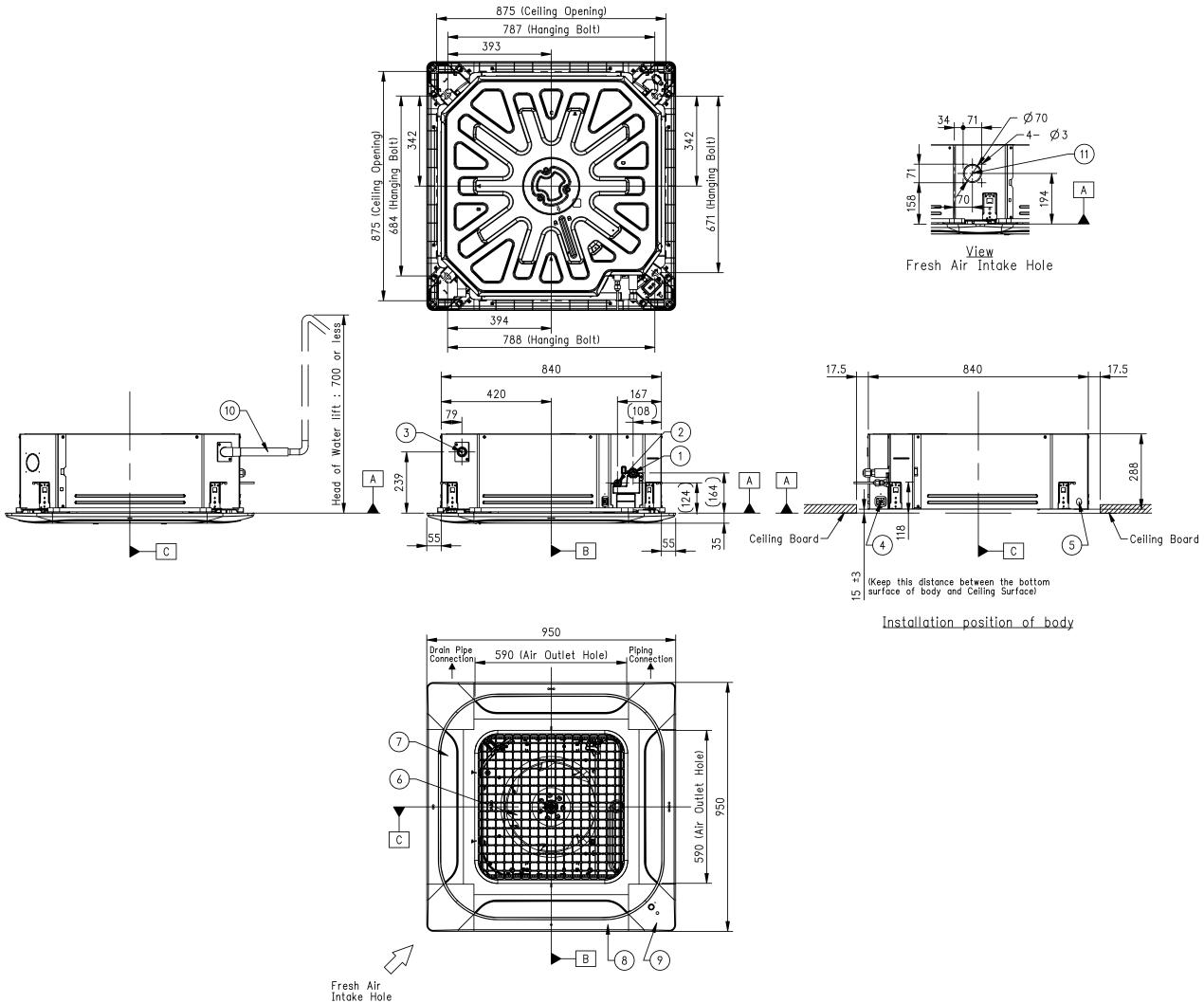
# CEILING MOUNTED CASSETTE

## STANDARD INVERTER (R32)

### UT42F NAO / UT48F NAO / UT60F NAO

(Unit : mm)

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



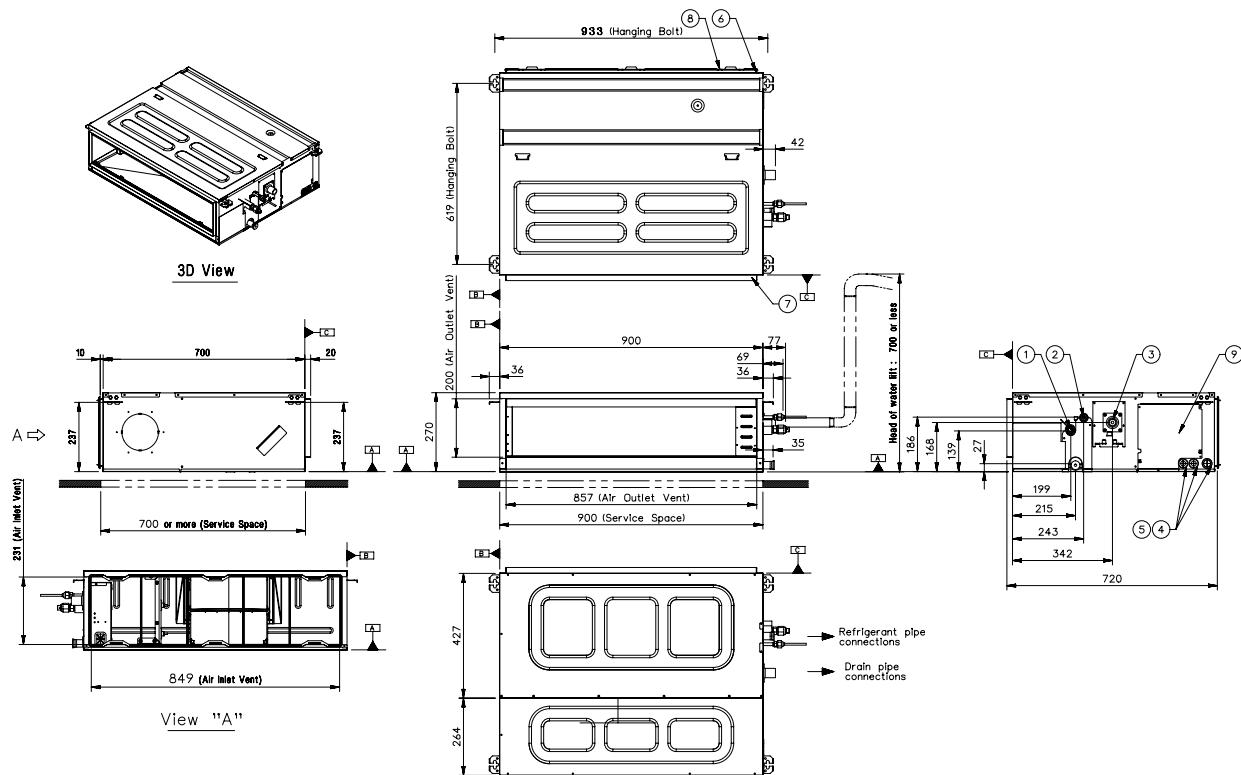
# CEILING CONCEALED DUCT

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



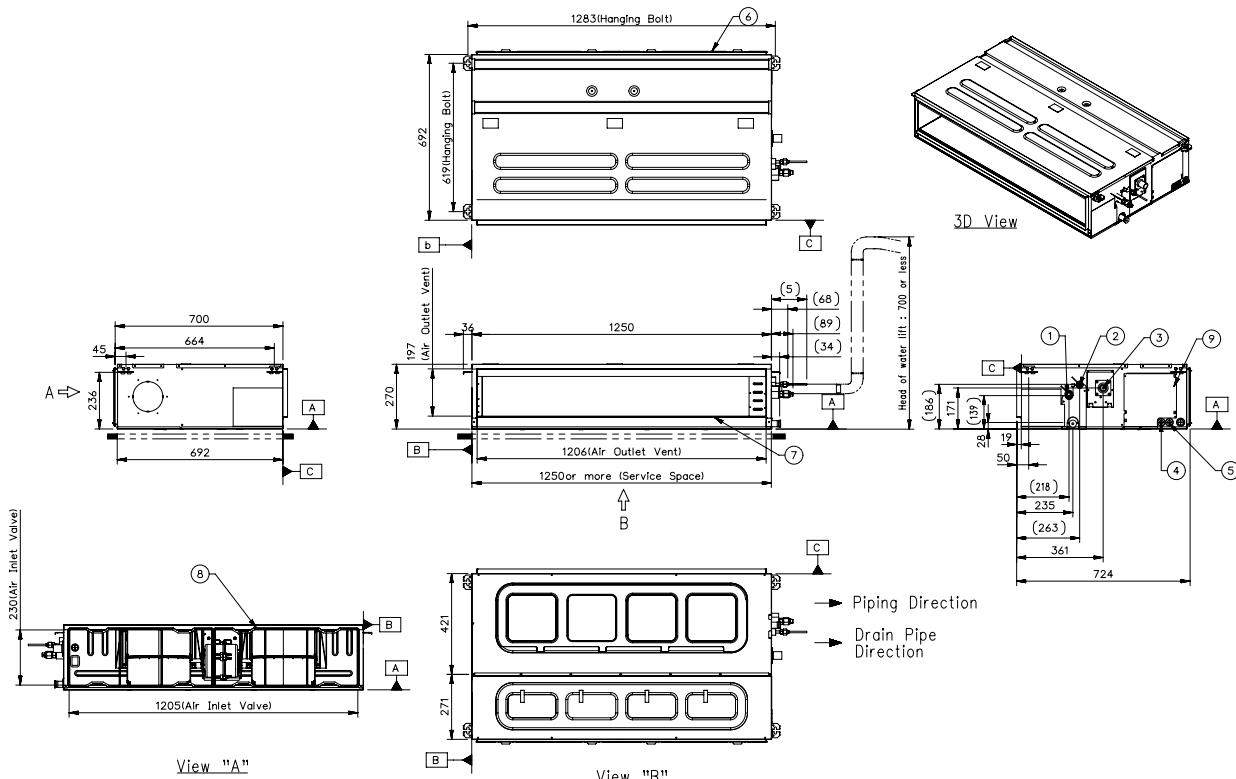
# CEILING CONCEALED DUCT

H-INVERTER (R32) / MID STATIC

UM24FH N20 / UM30FH N20

(Unit : mm)

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

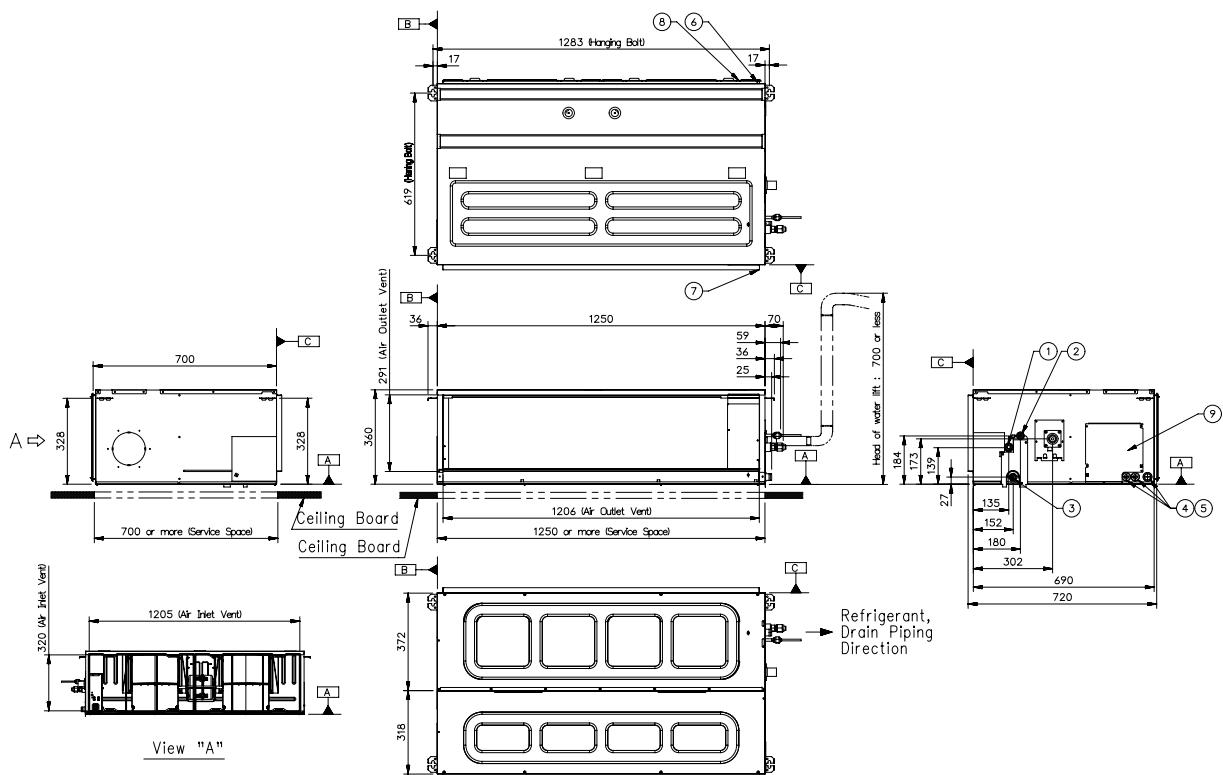


# CEILING CONCEALED DUCT

## 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



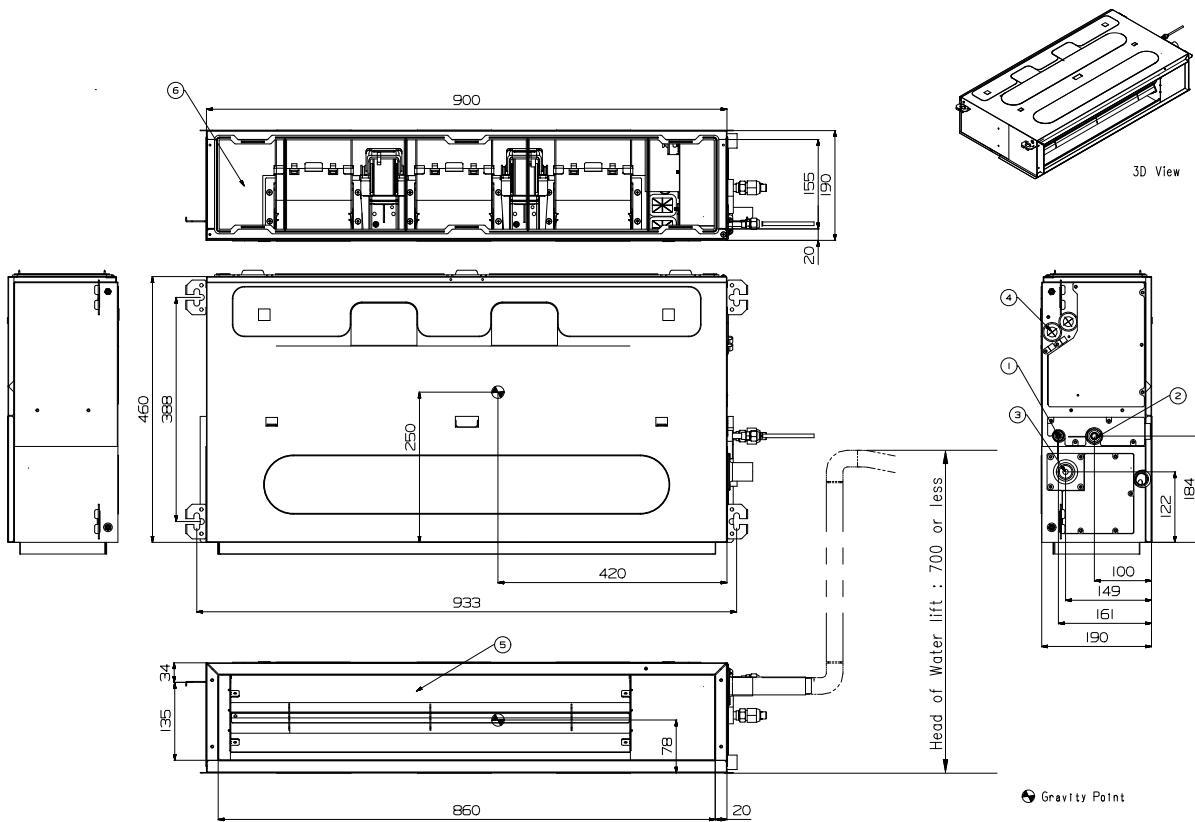
# CEILING CONCEALED DUCT

## H-INVERTER (R32) / LOW STATIC

### UL12FH N50

(Unit : mm)

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



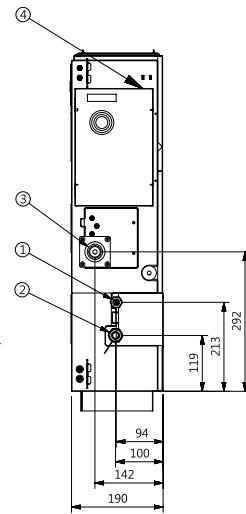
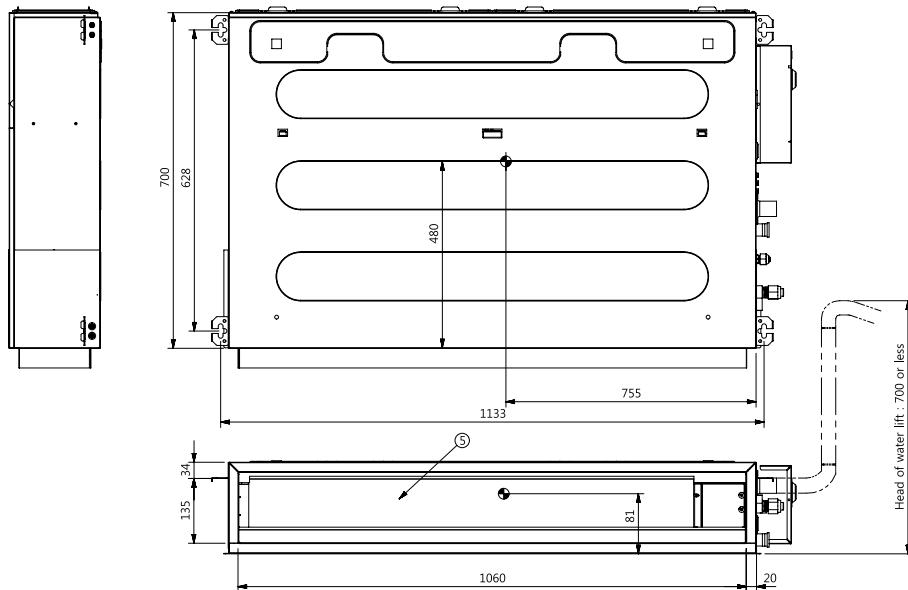
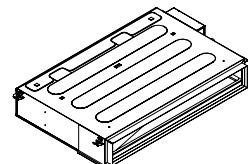
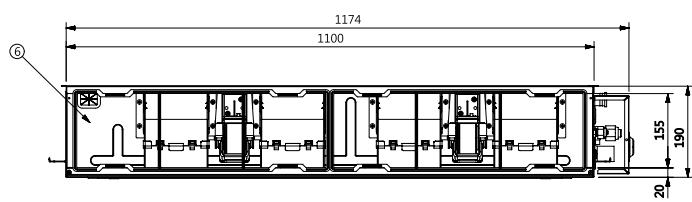
# CEILING CONCEALED DUCT

## 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



● Gravity point

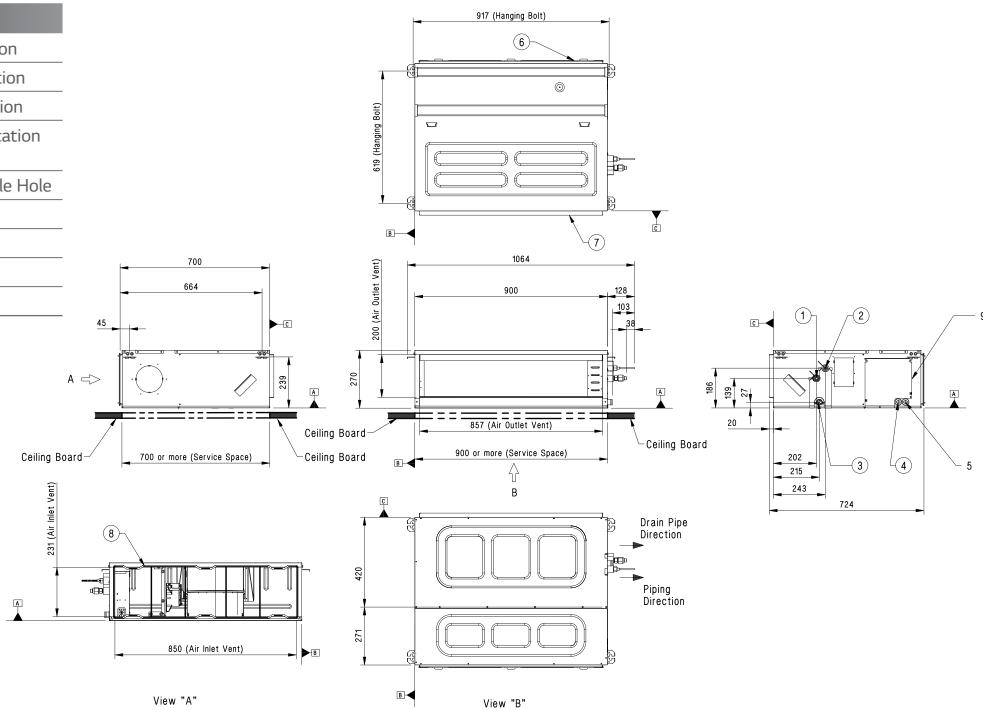
# CEILING CONCEALED DUCT

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

### CM18F N10 / CM24F N10 / UM30F N10

(Unit : mm)

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

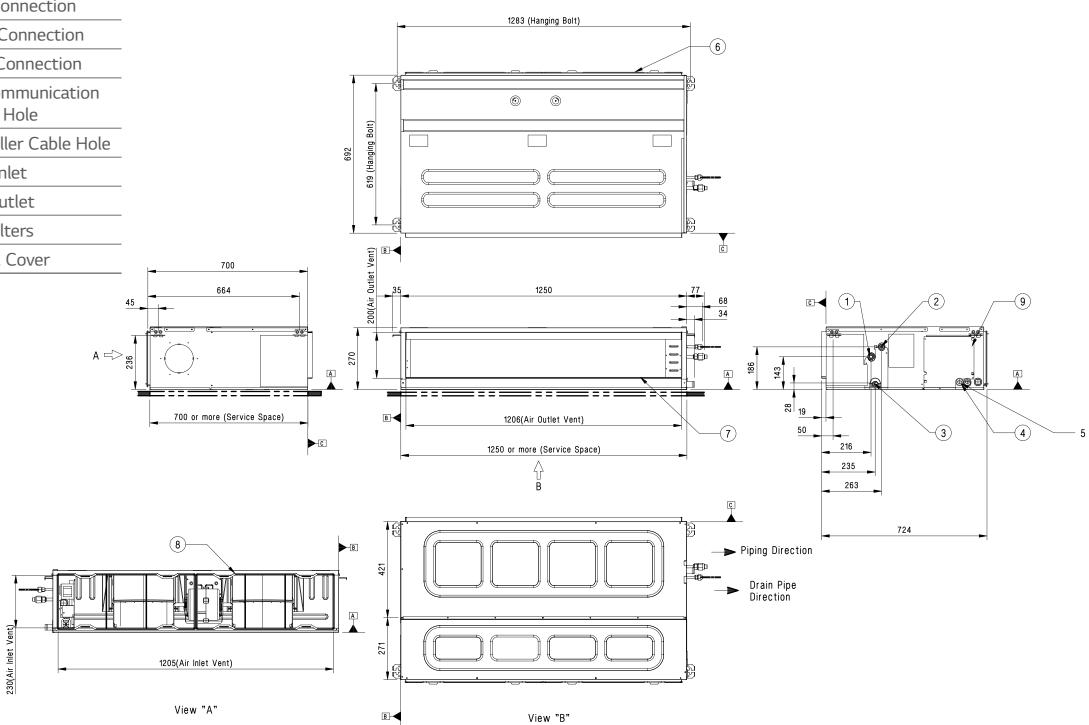


## STANDARD / COMPACT INVERTER (R32) / MID STATIC

### UM36F N20

(Unit : mm)

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



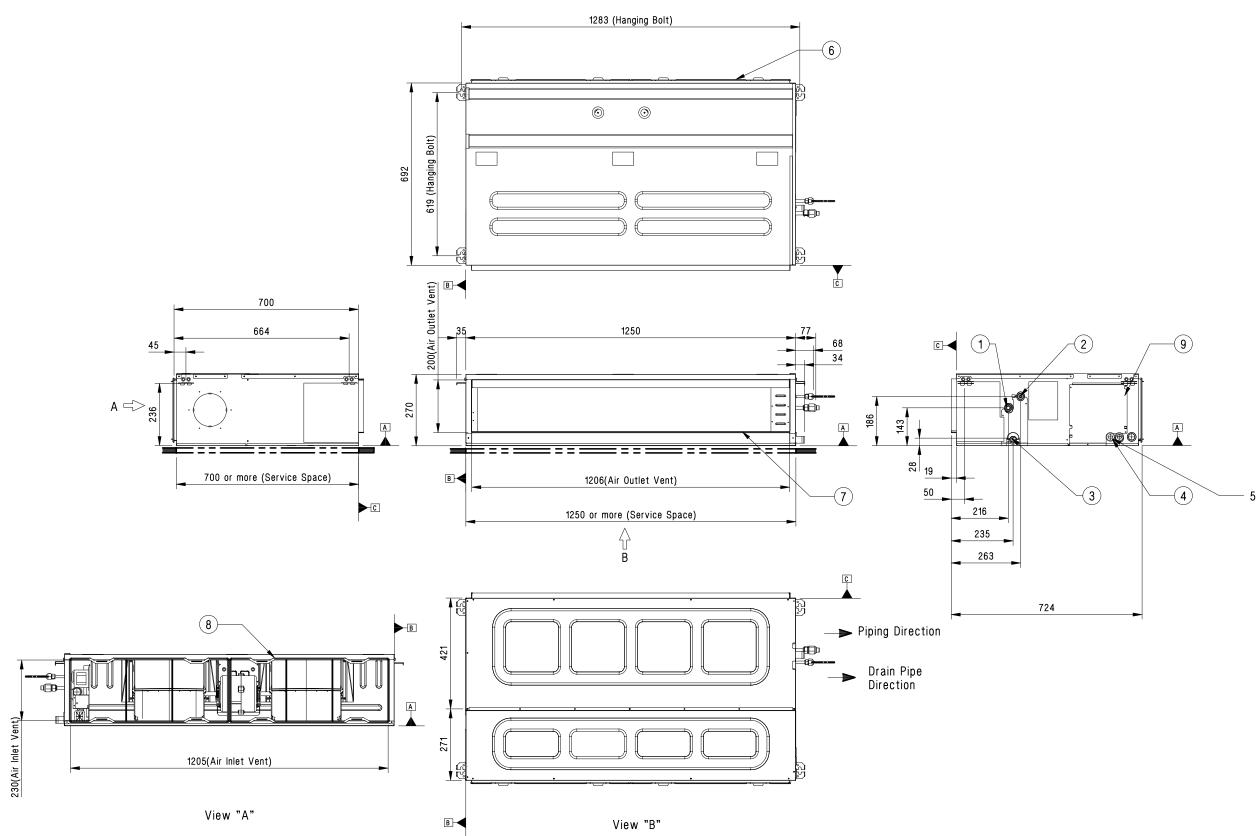
# CEILING CONCEALED DUCT

## 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



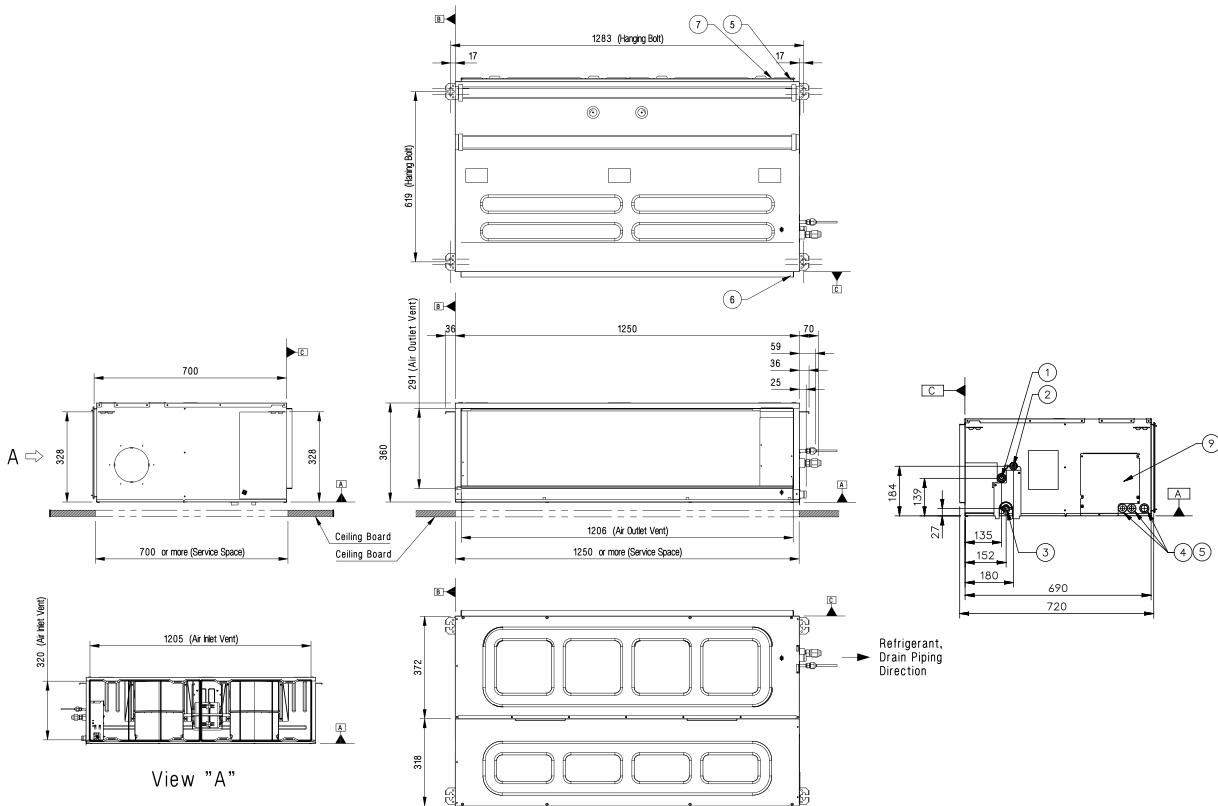
# CEILING CONCEALED DUCT

## STANDARD INVERTER (R32) / MID STATIC

### UM48F N30 / UM60F N30

(Unit : mm)

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



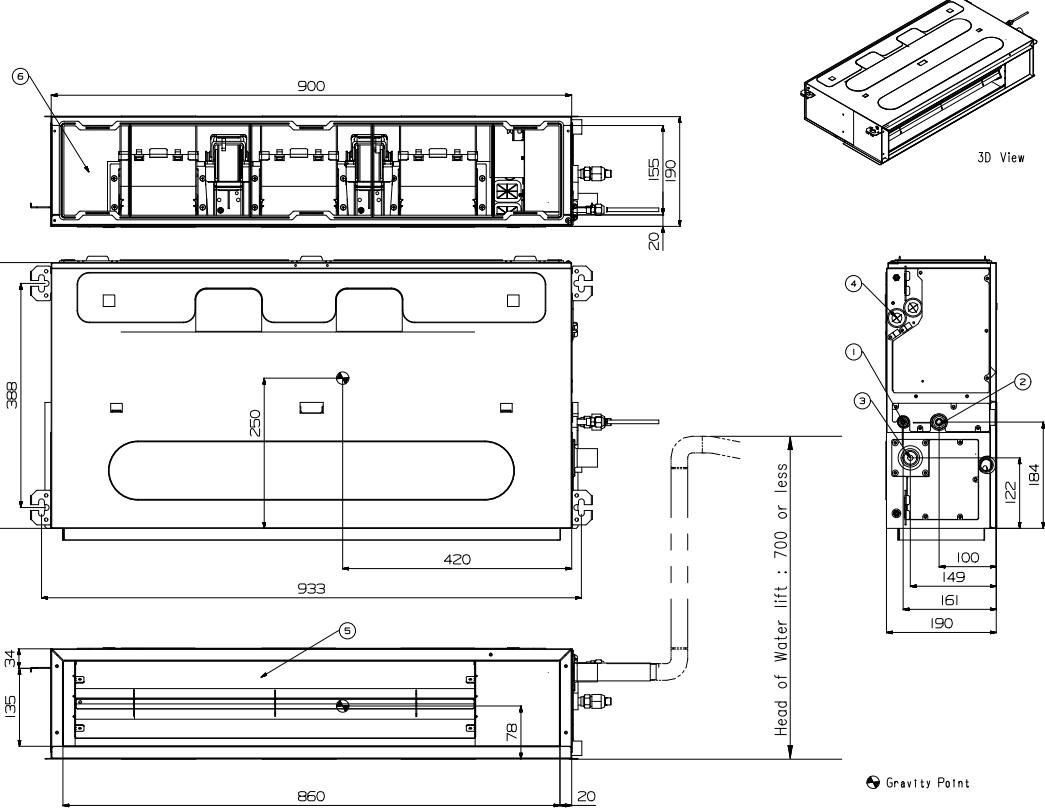
# CEILING CONCEALED DUCT

## 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



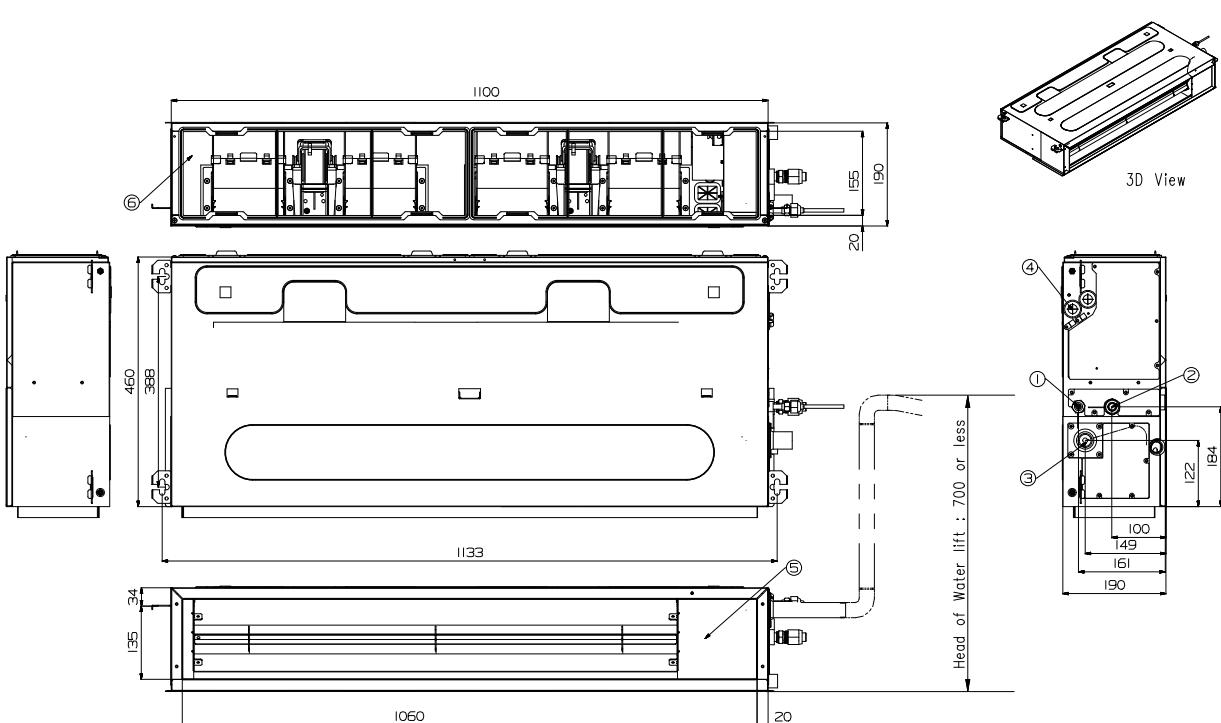
# CEILING CONCEALED DUCT

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

### CL18F N60

(Unit : mm)

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



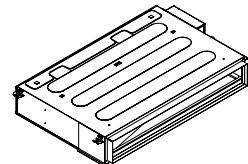
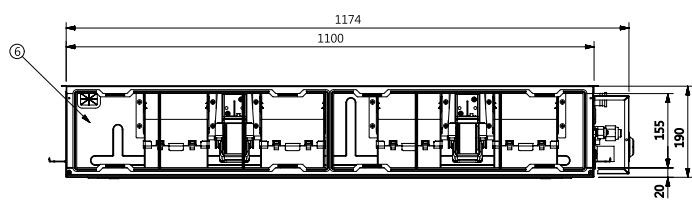
# CEILING CONCEALED DUCT

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

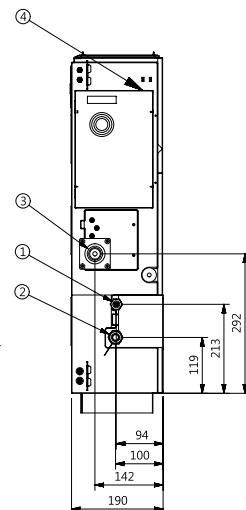
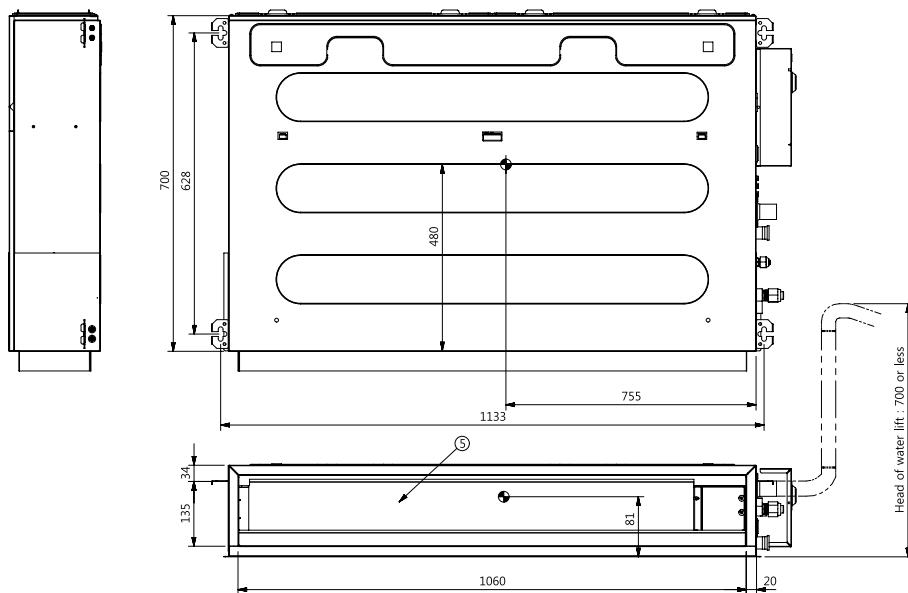
### CL24F N30

(Unit : mm)

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



3D-VIEW



Gravity point

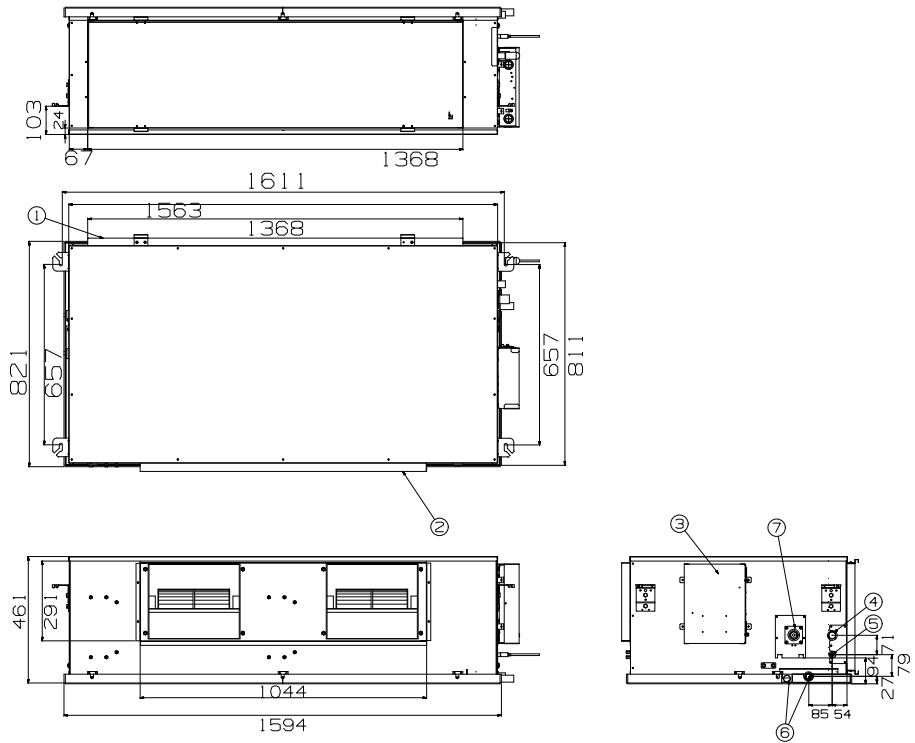
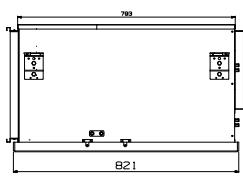
# CEILING CONCEALED DUCT

## STANDARD INVERTER (R410A) / HIGH STATIC

### UB70 N94 / UB85 N94

(Unit : mm)

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



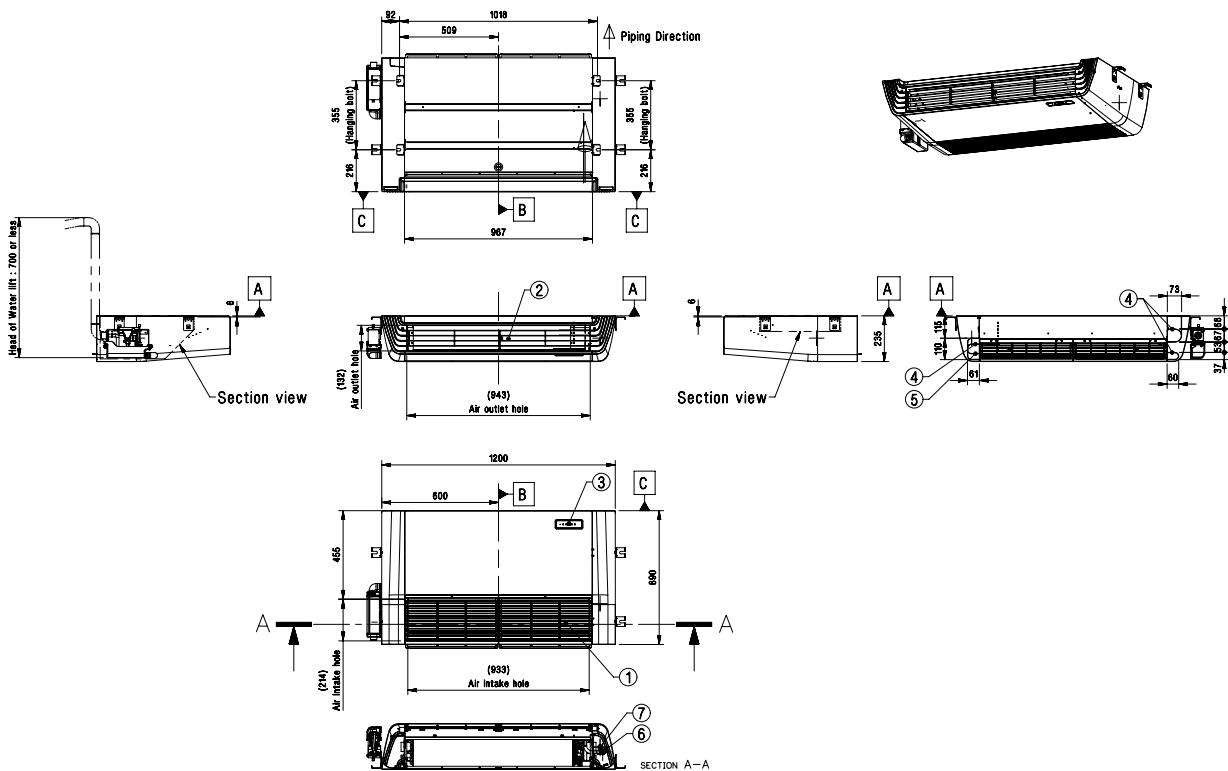
# CEILING SUSPENDED

## H-INVERTER (R32)

### UV18FH N10

(Unit : mm)

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



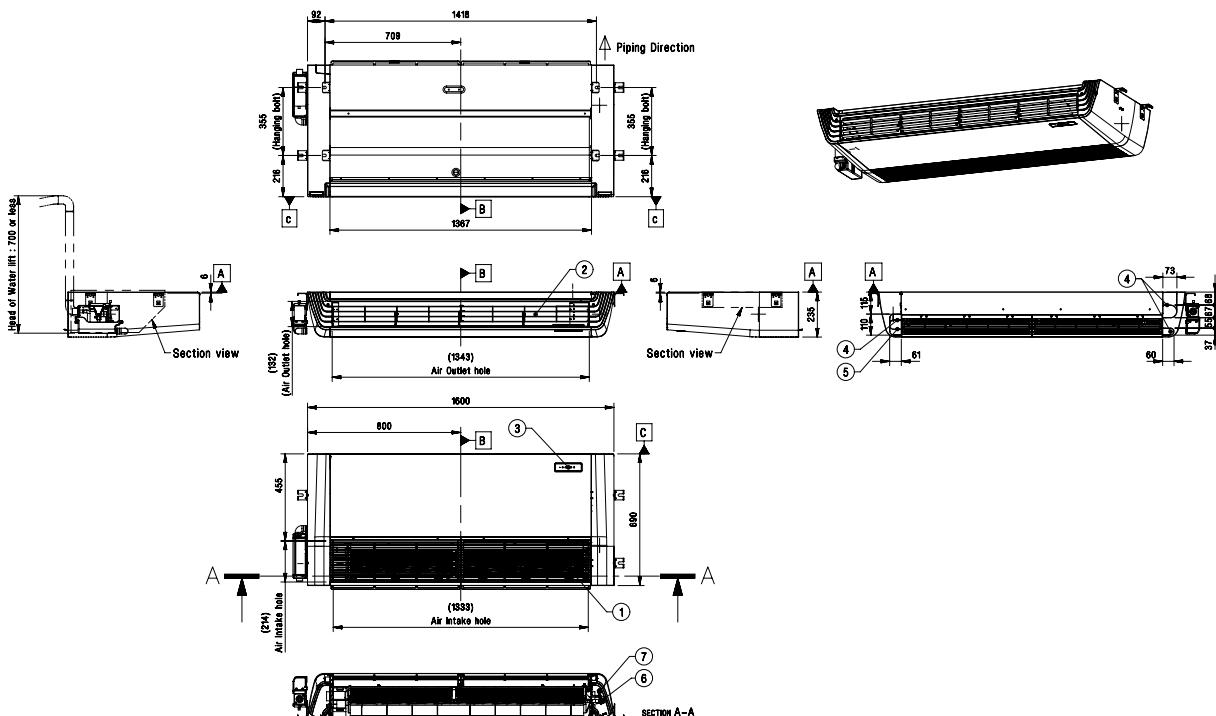
# CEILING SUSPENDED

## H-INVERTER (R32)

UV24FH N20 / UV30FH N20 / UV36FH N20 / UV42FH N20

(Unit : mm)

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



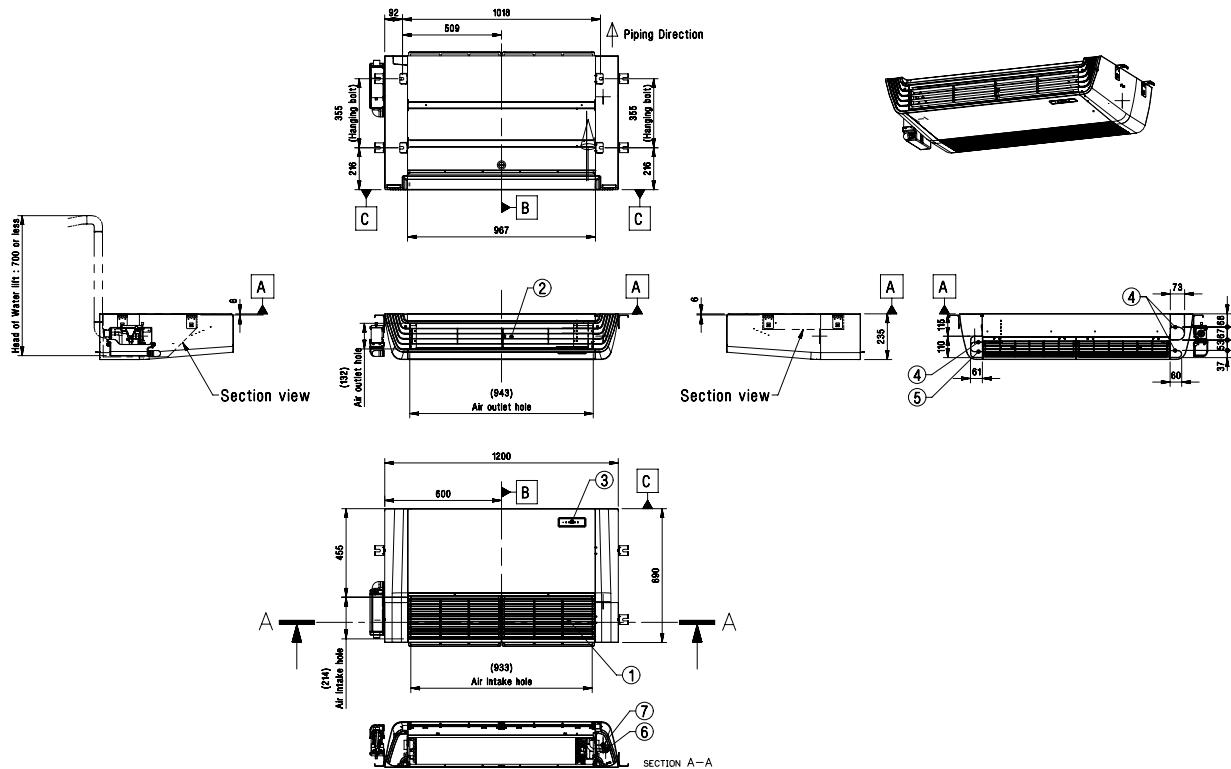
# CEILING SUSPENDED

## STANDARD / COMPACT INVERTER (R32)

### UV18F N10 / UV24F N10 / UV30F N10

(Unit : mm)

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



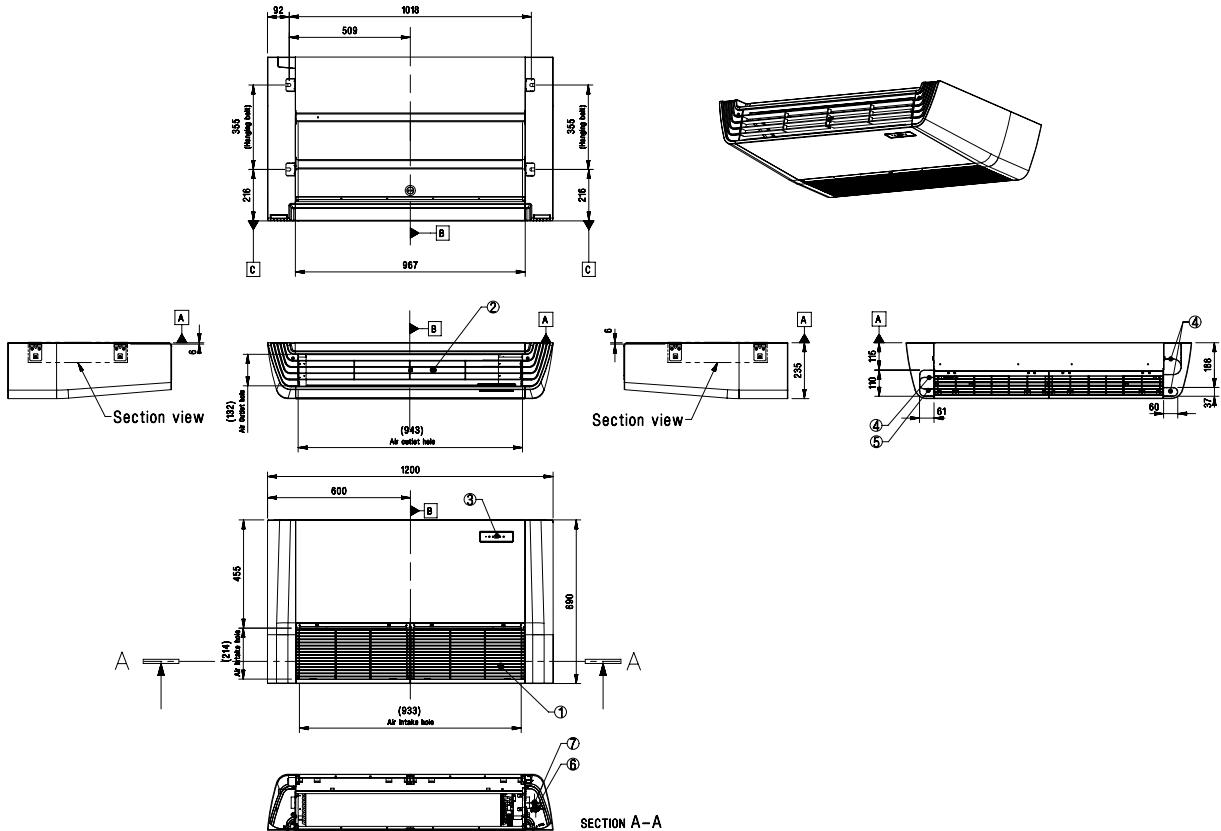
# CEILING SUSPENDED

## STANDARD INVERTER (R32)

UV36F N20 / UV42F N20 / UV48F N20 / UV60F N20

(Unit : mm)

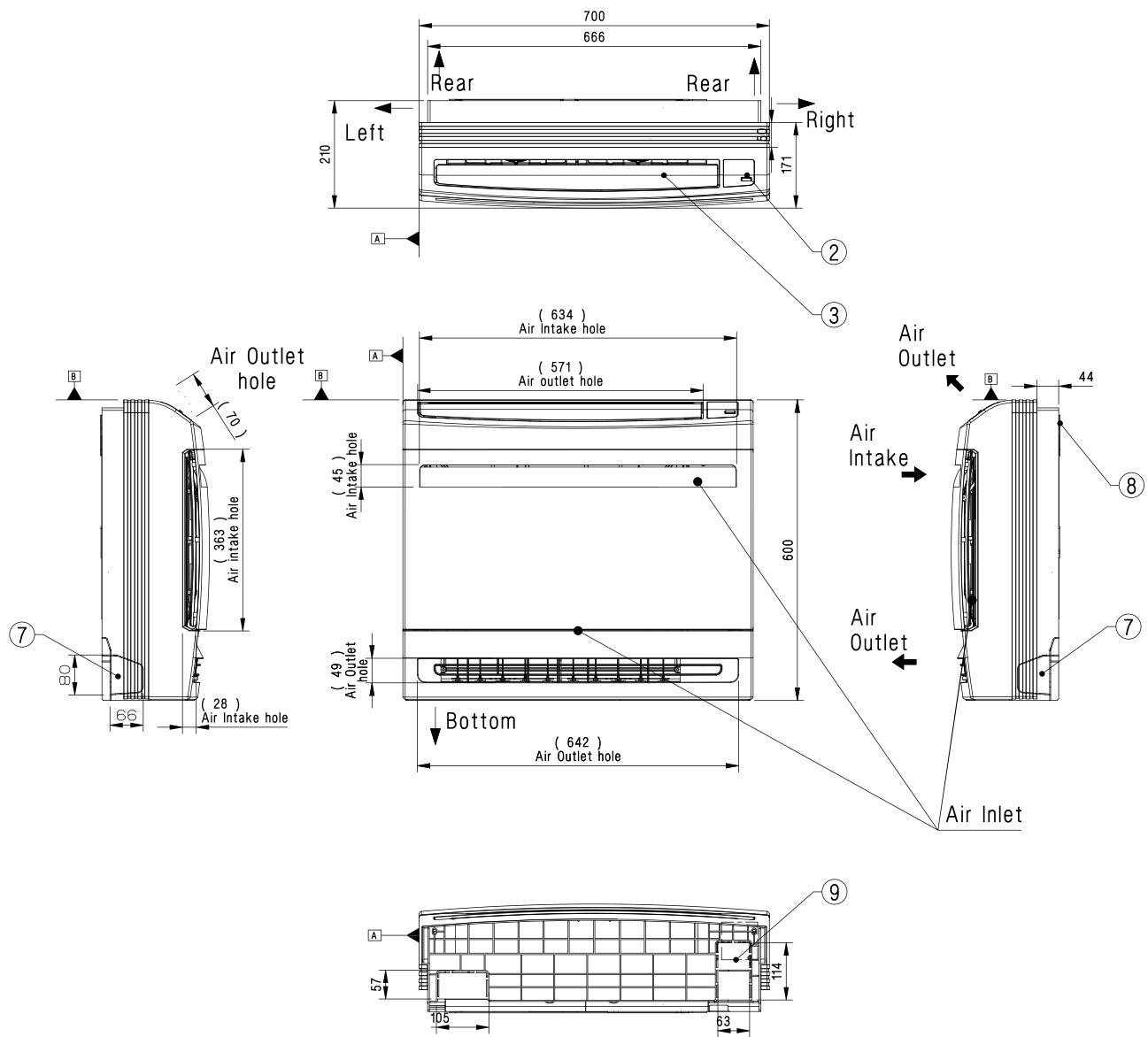
	PART NAME
1	Air Inlet
2	Air Outlet
3	Remote Controller Signal Receiver
4	Drain Hose Routing Hole
5	Refrigerant Pipe and Routing Hole
6	Gas Pipe Connection
7	Liquid Pipe Connection



**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



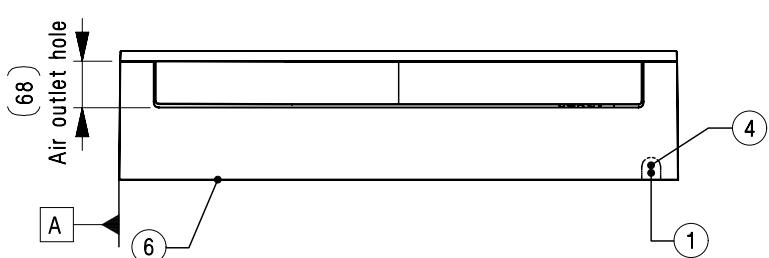
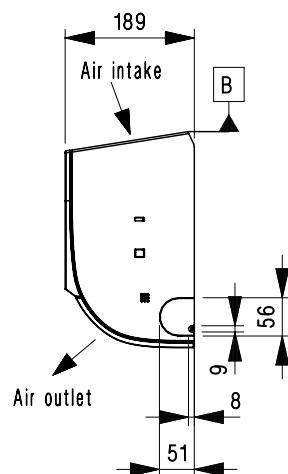
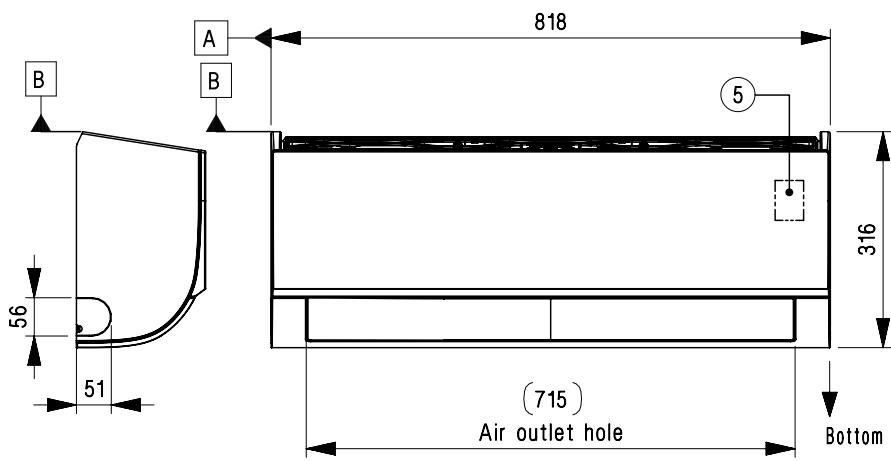
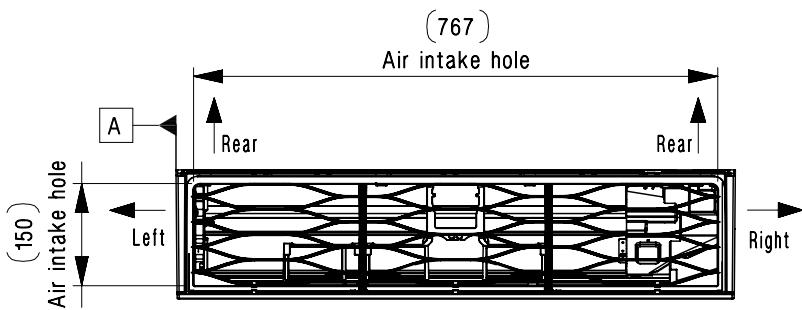
# WALL MOUNTED

## STANDARD INVERTER (R32)

### MJ09PC NSJ / MJ12PC NSJ

(Unit : mm)

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



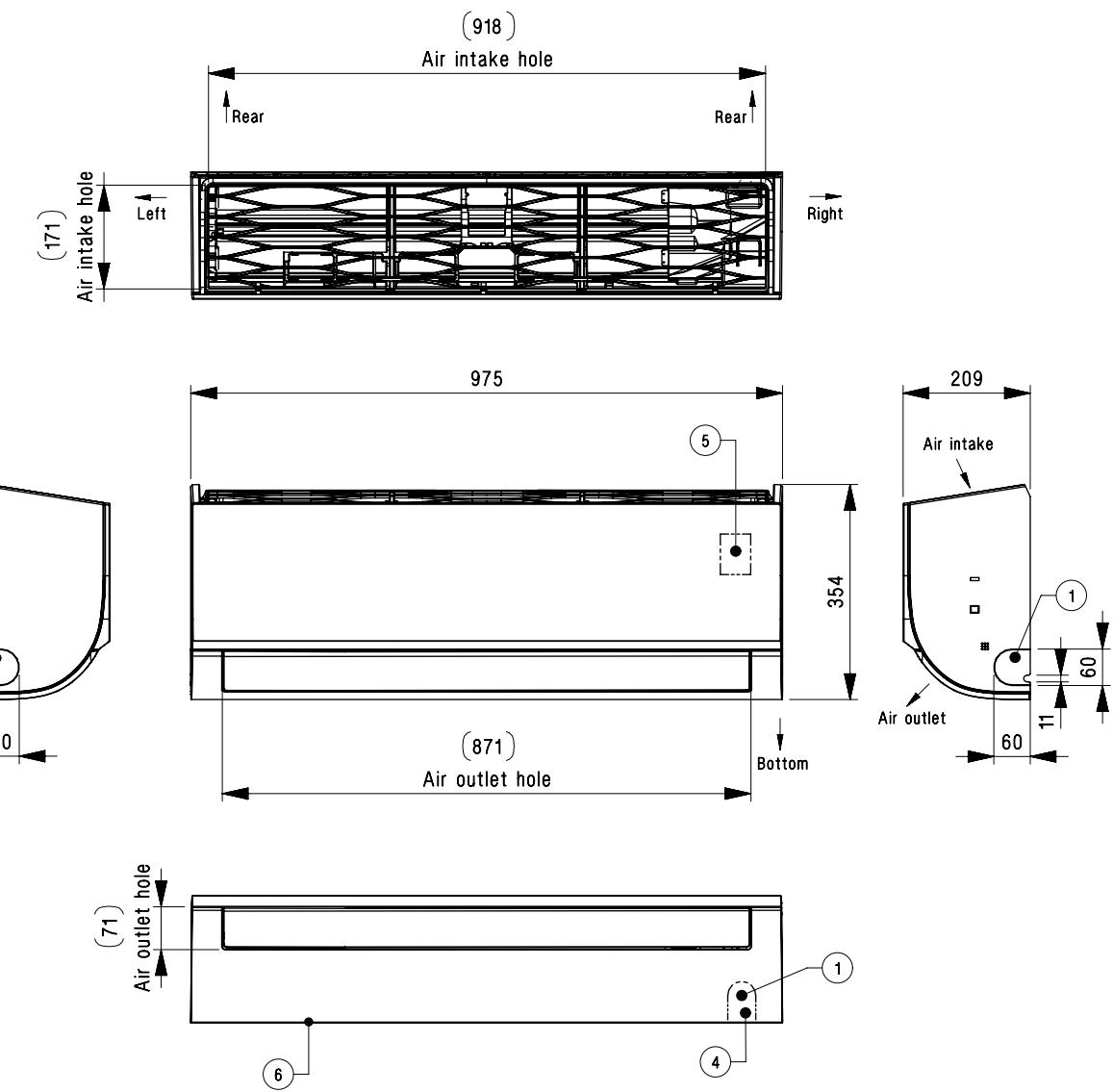
# WALL MOUNTED

## STANDARD INVERTER (R32)

### MJ18PC NSJ / MJ24PC NSJ

(Unit : mm)

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



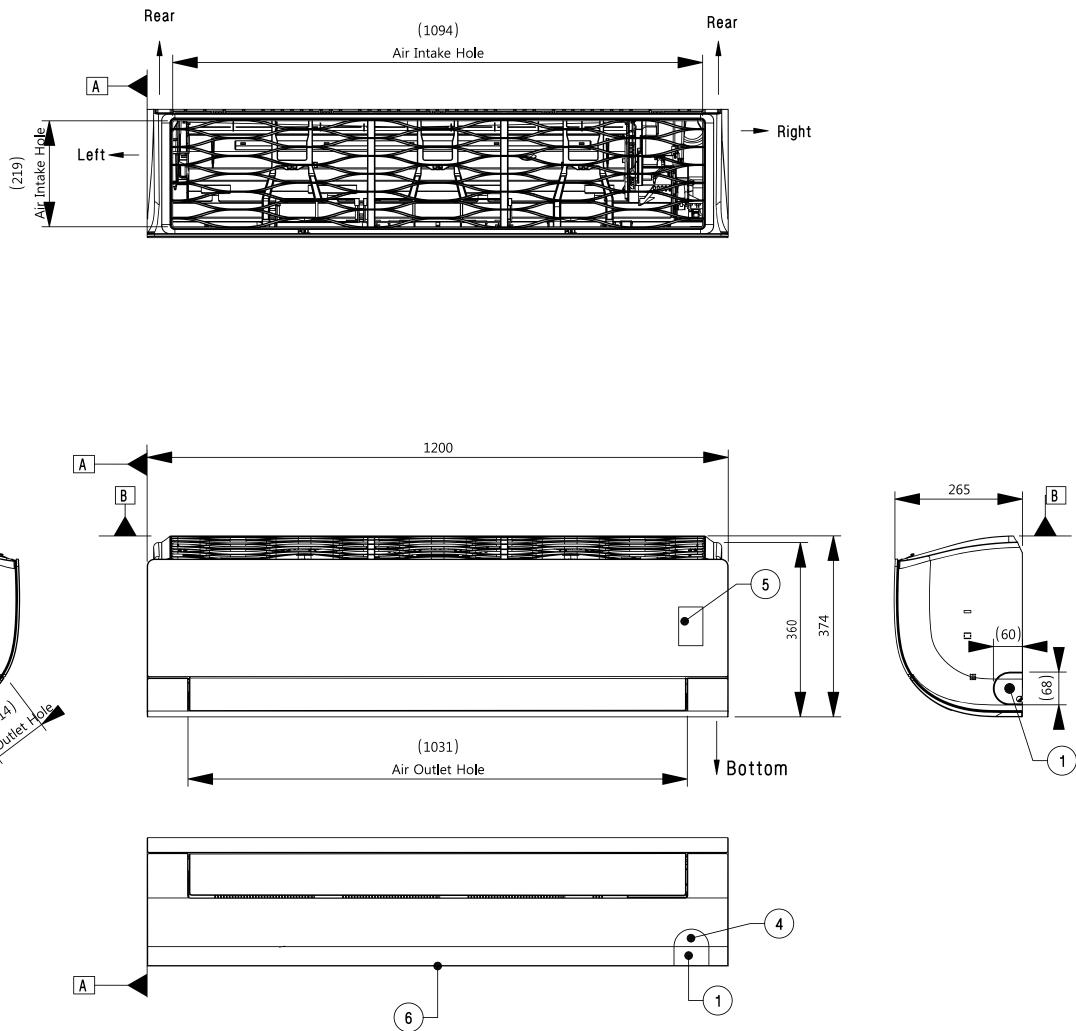
# WALL MOUNTED

## STANDARD / COMPACT INVERTER (R32)

### US30F NRO / US36F NRO

(Unit : mm)

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



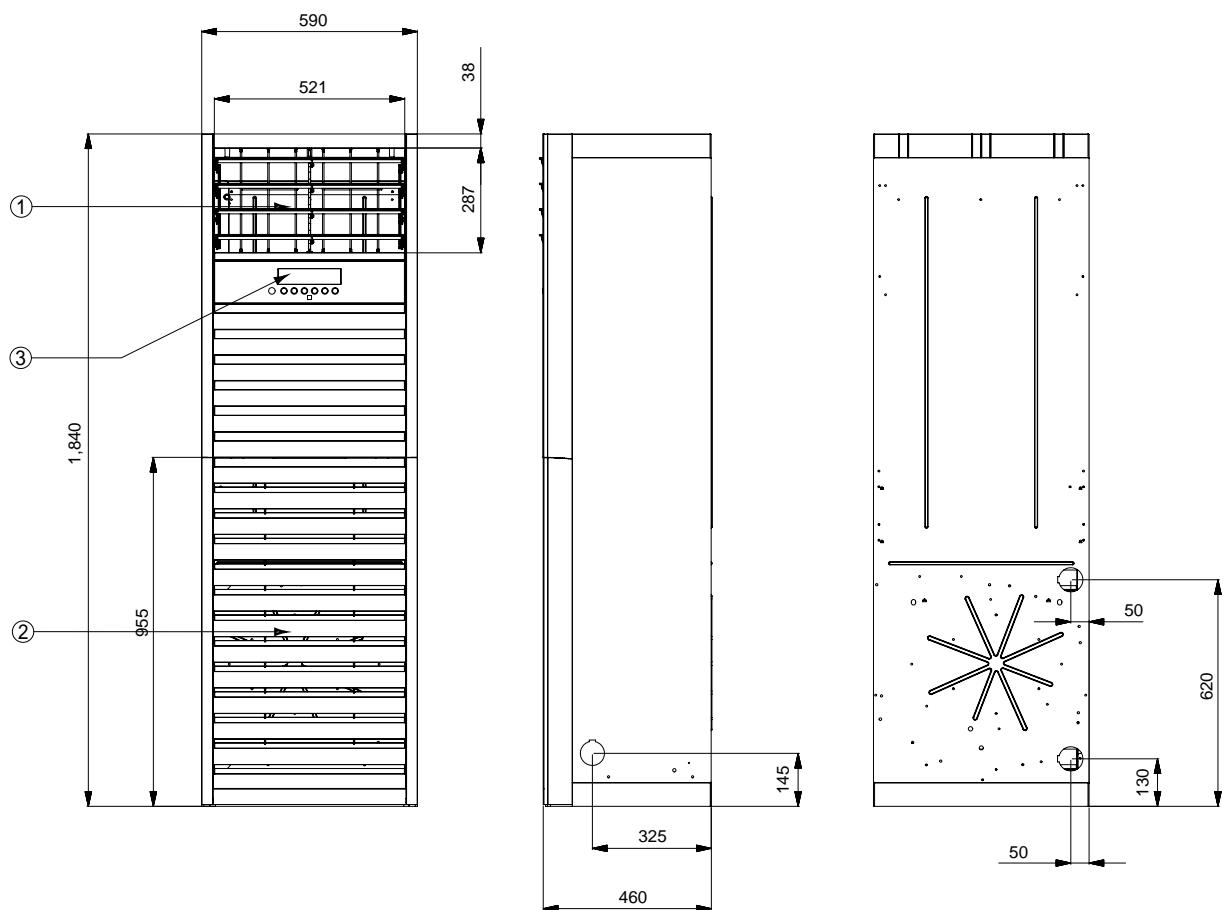
# FLOOR STANDING

## STANDARD INVERTER (R410A)

### UP48 NT2

(Unit : mm)

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



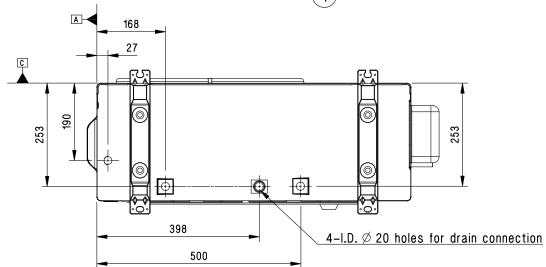
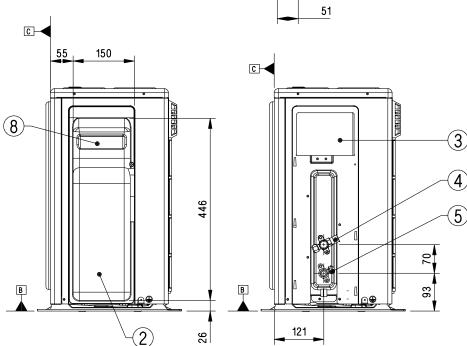
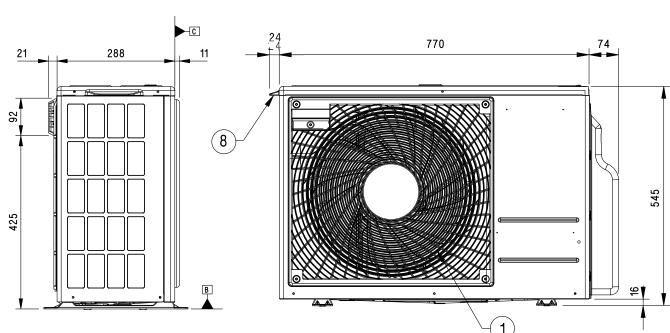
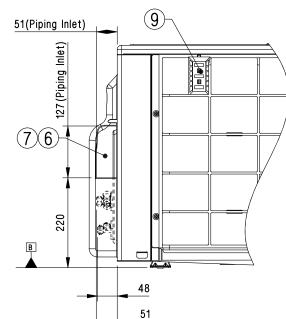
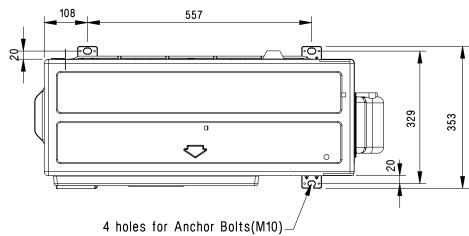
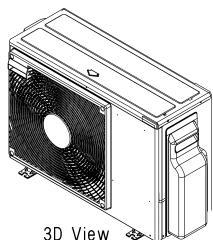
# UNIVERSAL OUTDOOR

## HIGH / STANDARD / COMPACT INVERTER (R32)

### UUA1 ULO

(Unit : mm)

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



Side View  
(removed valve cover)

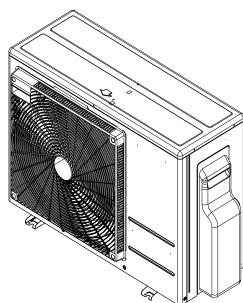
# UNIVERSAL OUTDOOR

## HIGH / STANDARD / COMPACT INVERTER (R32)

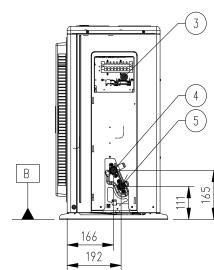
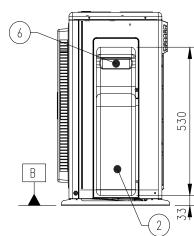
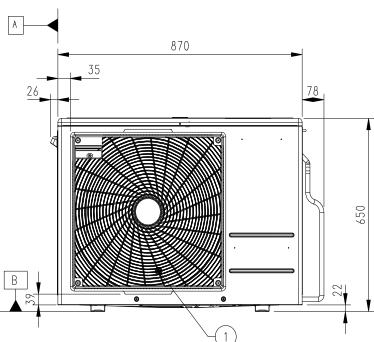
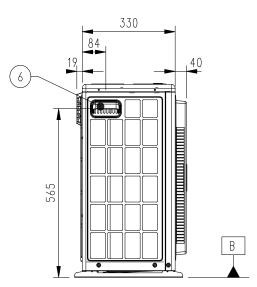
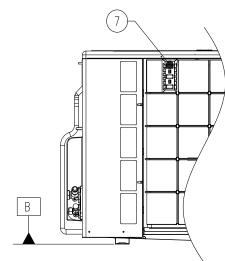
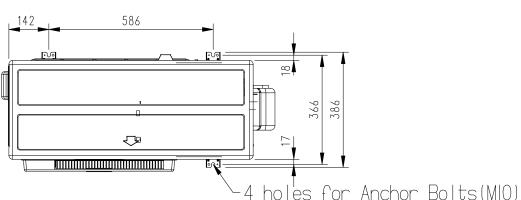
### UUB1 U20

(Unit : mm)

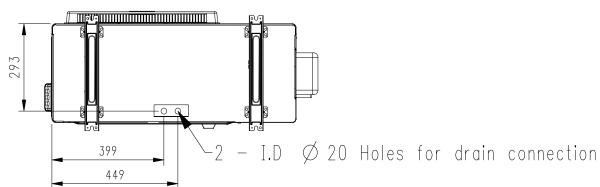
	PART NAME
1	Air Outlet
2	Control Cover & SVC Valve Cover
3	Power and Communication Cable Connection
4	Gas Pipe Connection
5	Liquid Pipe Connection
6	Handle
7	Intake Air Temperature Sensor Cover



3D View



Side View  
(removed valve cover)



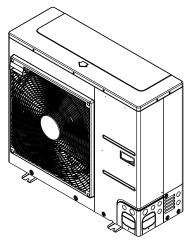
# UNIVERSAL OUTDOOR

## HIGH / STANDARD / COMPACT INVERTER (R32)

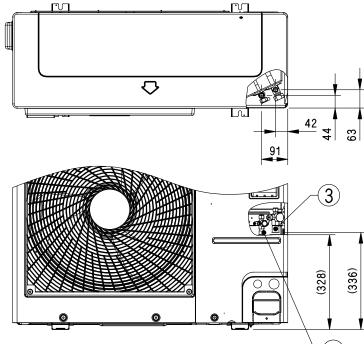
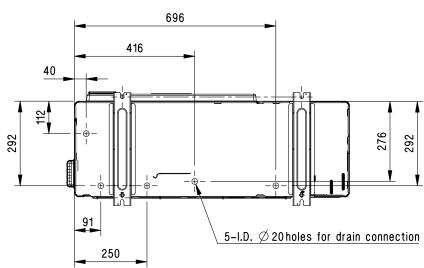
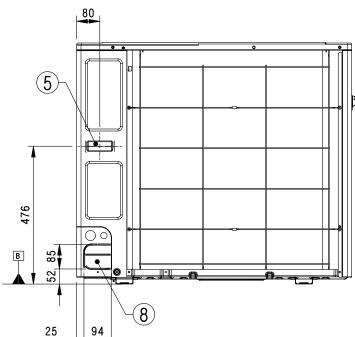
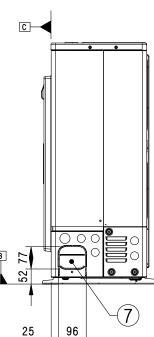
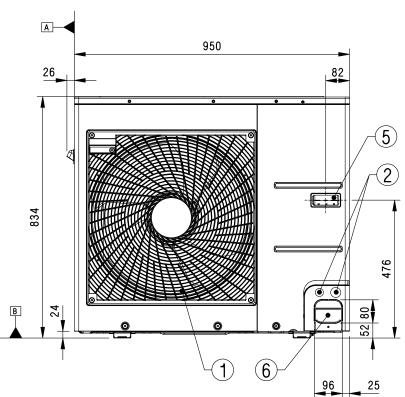
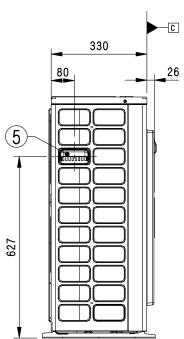
### UUC1 U40

(Unit : mm)

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



3D View



Piping connection port

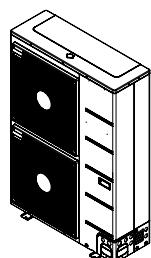
# UNIVERSAL OUTDOOR

## STANDARD INVERTER (R32)

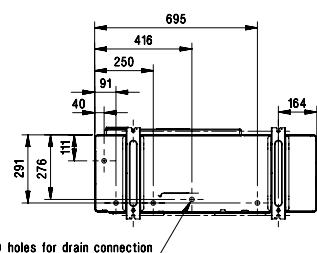
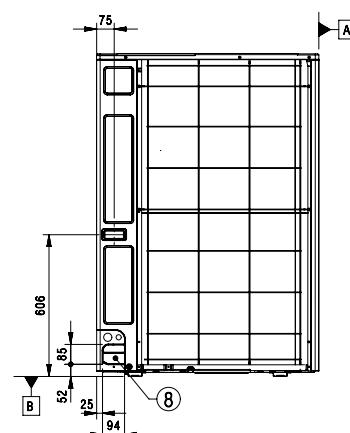
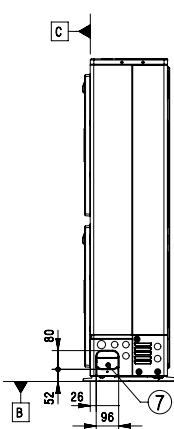
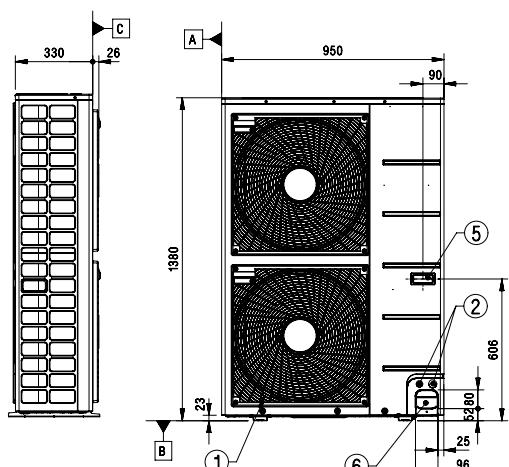
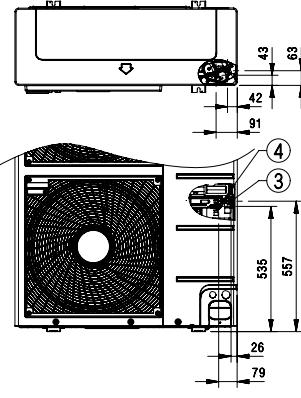
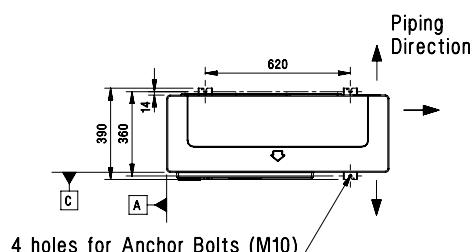
### UUD1 U30 / UUD3 U30

(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



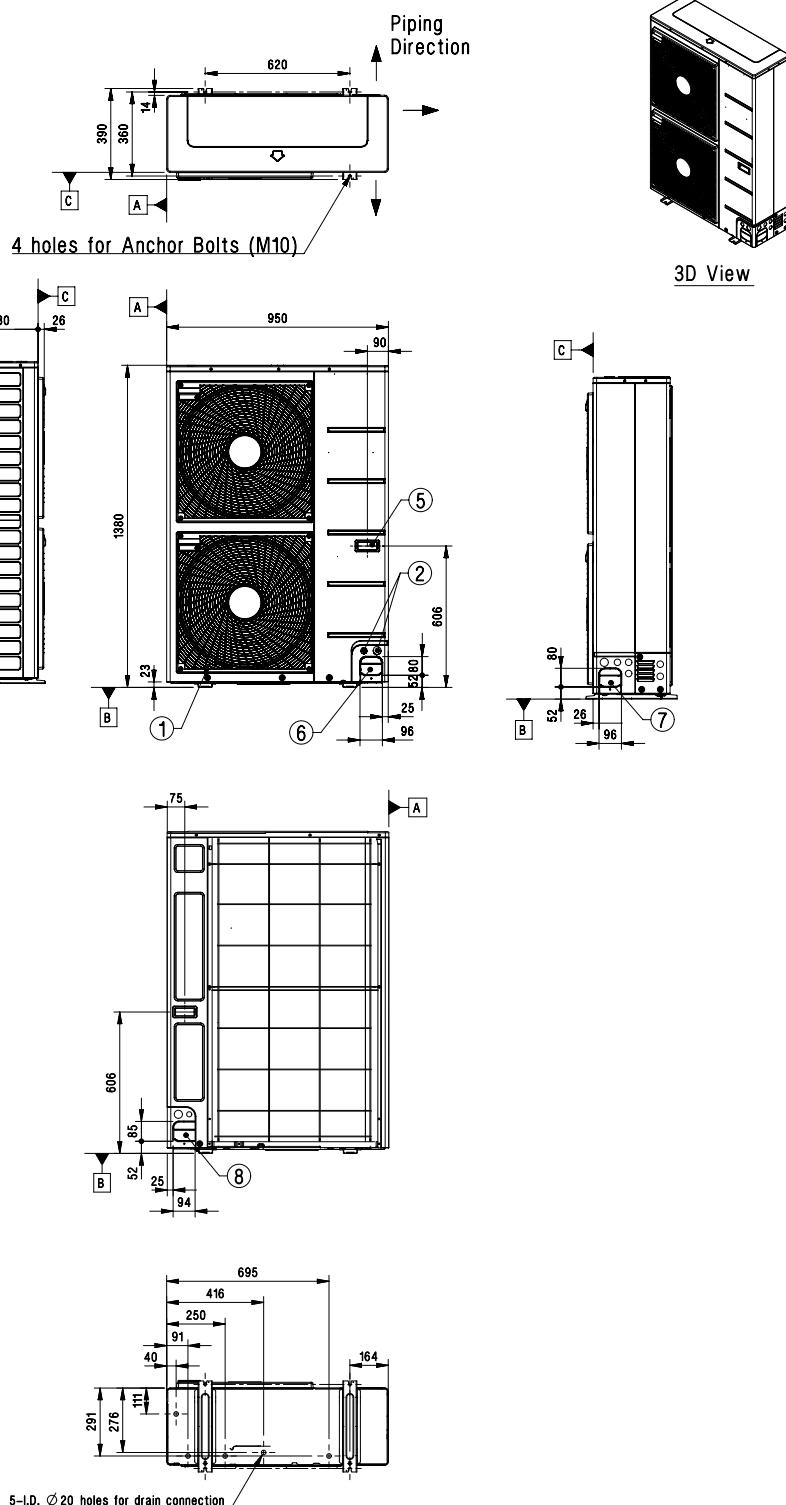
# UNIVERSAL OUTDOOR

## 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)



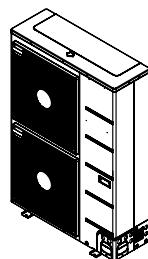
# UNIVERSAL OUTDOOR

## STANDARD INVERTER (R410A)

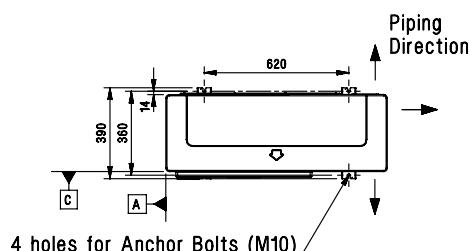
### UU70W U34

(Unit : mm)

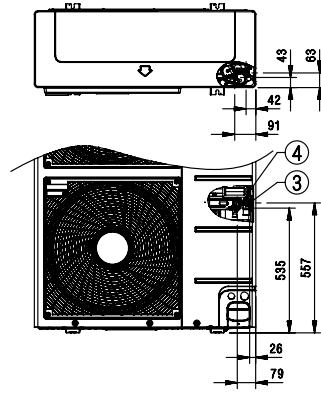
	PART NAME
1	Air Outlet
2	Power and Communication Cable Hole
3	Gas Pipe Connection
4	Liquid Pipe Connection
5	Handle
6	Pipe Routing Hole (Front)
7	Pipe Routing Hole (Side)
8	Pipe Routing Hole (Back)



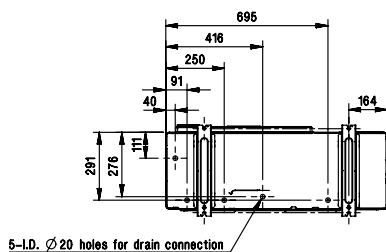
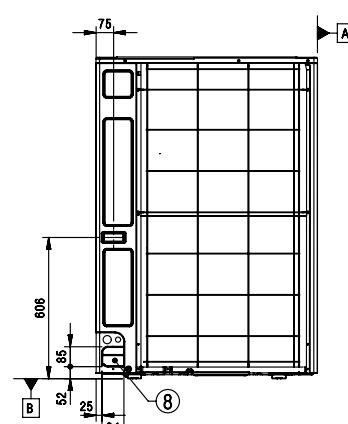
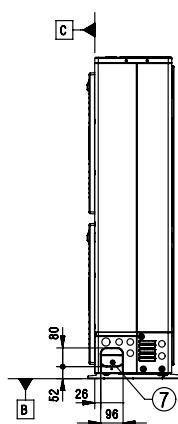
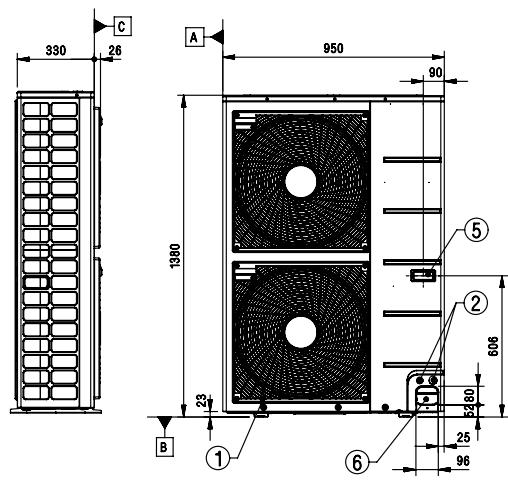
3D View



4 holes for Anchor Bolts (M10)



Piping connection port



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

# UNIVERSAL OUTDOOR

## 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

