



SYSTEM
AIR CONDITIONING

LIGHT COMMERCIAL AIR CONDITIONING PRODUCTS



- Energy Efficiency
- Black Fin Protection
- Air Purification
- Human Detection
- Smart Control

February 2025

LG SAC CUSTOMER CARE

1800-180-3575 (Service Toll Free) www.lg.com/in
cac.service@lgepartner.com

www.facebook.com/LGIndiaCommercialAC
www.x.com/lgIndia

To know more about LG, visit www.lg.com/in/business/air-solution
For Corporate/Institutional enquiries,
please write to sac.marketing@lge.com



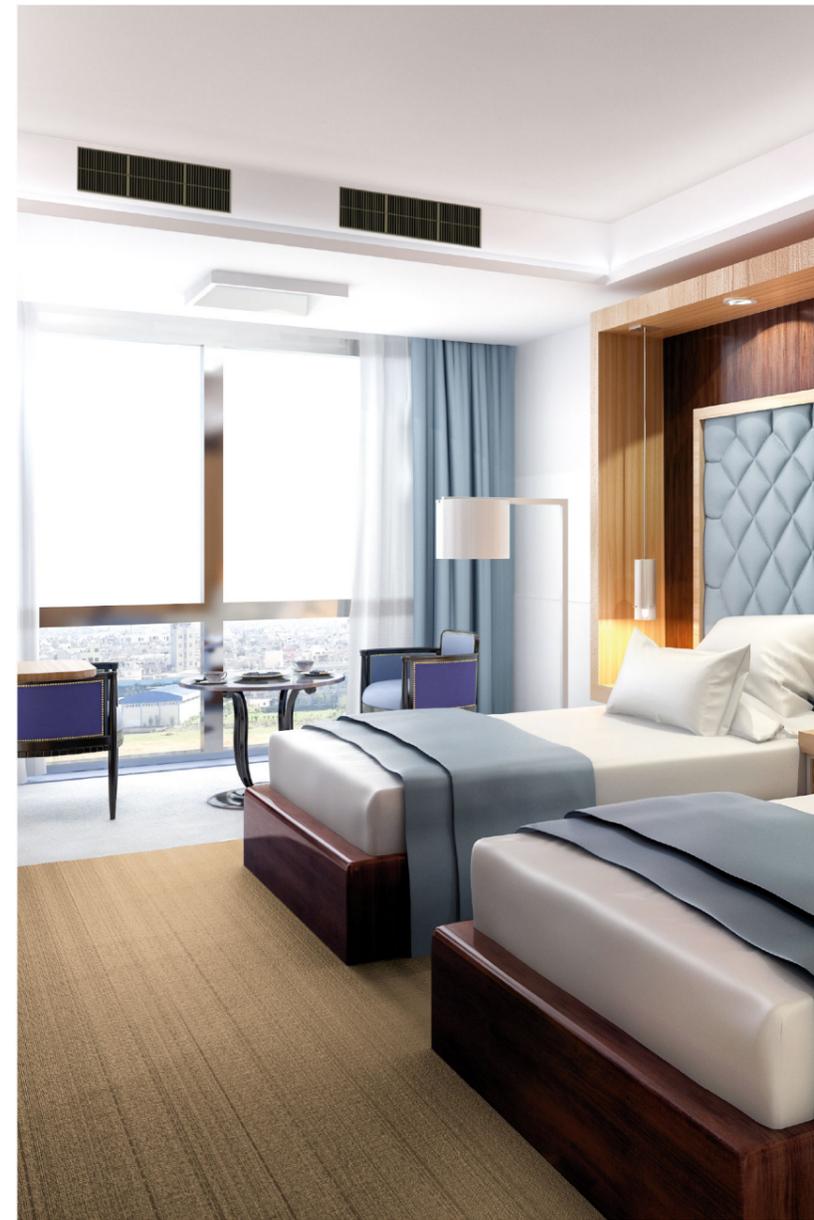
Regd. Office: LG Electronics India Limited, A-24/6, Mohan Cooperative Industrial Estate, Mathura Road, New Delhi-110044 CIN No. U32107DL1997PLC220109

Please contact us at North: 9717117716, South: 7824805486, East: 7875759665, West: 9923108310

Creative Visualization. Product images shown is for representation purposes only. Actual product may vary in size. Product features may vary from model to model.

Life's Good.

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Core Benefits of LG Smart Inverter Single CAC 05

• Energy Efficiency • Black Fin Protection • Air Purification • Human Detection • Smart Control

Line up 06

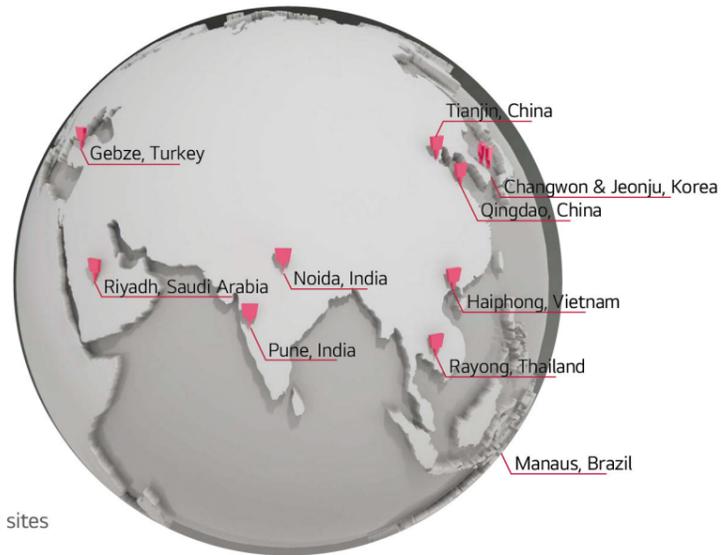
LG Smart Inverter Single CAC 15

• Inverter Cassette 1 Way • Inverter Cassette 4 Way

• Inverter Low Static Duct • Inverter High Static Duct

Control Solution 30

LG AIR SOLUTION



*LG Air Solution production sites

AS A TOTAL HVAC & ENERGY SOLUTION PROVIDER

The LG Electronics Air Solution Business Unit is a provider of total HVAC and energy solution. The company offers a broad portfolio of air conditioner products that are compatible with any building anywhere, including compact residences, towering skyscrapers, massive factories and giant concert halls. As a true total HVAC and energy solution provider, LG also supplies even the largest buildings and industrial facilities with central air conditioning systems such as chillers and efficient control solutions.

The history of the business unit goes back to 1968, when LG (then called GoldStar) rolled out Korea's first residential air conditioner. As the company first began making chillers for large commercial buildings in 1970, the commercial air conditioning business has grown exponentially, especially within the last 20 years. In 2008, LG sold its 100 millionth air conditioning unit, becoming the first company in the industry to reach that significant milestone. The success of LG air conditioners has allowed the company to become one of the major players in the highly competitive HVAC industry. By enhancing the industry's B2B infrastructure and finding further solutions for the HVAC sector, LG has risen to become a total HVAC solutions specialist. The company has steadily increased its sales and market share by introducing energy efficient and reliable HVAC solutions and actively pursuing new opportunities wherever they arise. This sustained, excellent performance is built on a solid foundation of global R&D and advanced manufacturing capabilities.

LG ACADEMIES PROVIDE BEST SKILL

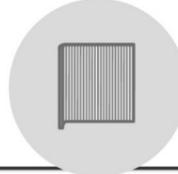


LG believes in Knowledge sharing and this being done at LGEIL with academies located at Greater Noida, Pune, Bangalore and Mumbai. These academies with dedicated trainer impart product information to service including hands-on practise with Brazing system. LG academies ensures in providing best skill to Customer/Dealers and LG Employees with there scheduled training calendar.

CORE BENEFITS

1  **ENVIRONMENTAL FRIENDLY & ENERGY EFFICIENCY**  

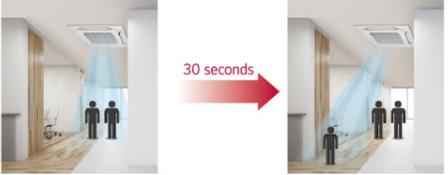
LG's revolutionary Inverter technology boasts of powerful yet quiet performance while minimizing energy consumption. In order to reduce environmental destruction, refrigerant R32 is internationally acclaimed for being eco-friendly.

2  **BLACK FIN PROTECTION** 

LG's exclusive "Black Fin" heat exchanger is designed to perform even in corrosive environments.

3  **AIR PURIFICATION** 

Provides fresh air with powerful air cleaning process and offers real time air quality monitoring system.

4  **HUMAN DETECTION** 

Airflow direction is controlled automatically by motion sensor that detects the activity of people every 30 seconds.

5  **SMART CONTROLS** 

LG Single CAC responds to diverse building environments with LG ThinQ-based AI control and individual/central integrated control solutions.

LINE UP



Product	1.0 T	1.5 T	2.0 T	3.0 T
Inverter Cassette 4 Way 		 3★ 5★	 3★ 5★	 5★
Inverter Cassette 1 Way 	 3★	 3★	 3★	
Inverter Low Static Duct 				
Inverter High Static Duct				

	4.0 T	5.5 T	8.5 T	11.0 T
	 5★			
				

ENVIRONMENTAL FRIENDLY & ENERGY EFFICIENCY

ENVIRONMENTAL FRIENDLY

R32 REFRIGERANT



R32 is a highly efficient refrigerant with a lower global warming potential as compared to R410A, a commonly found refrigerant in residential air conditioners.

HOW IT WORKS?

If compressor is the heart of AC then the refrigerant is the blood. The heat is transferred between indoor & outdoor due to circulation of refrigerant. Eco-friendly Refrigerant (R32) has better heat dissipation. It gives better result in lower quantity & has remarkable lower environmental impact

ECO-FRIENDLY R32 REFRIGERANT
R32 (Diflorometane) is an organic compound

It requires 20% less gas charge

Powerful cooling & higher efficiency

BENEFITS

Zero Ozone Depletion (ODP) & Lower Global Warming Potential (GWP). The quantity of R32 refrigerant required is appreciably lower compared to the R410A refrigerant. Consequently, this results in decreasing the potential of global warming. Comparative case studies of the different refrigerants are indicated in the table and chart as below:

	R22	R410A	R32
ODP	Medium	Nil	Nil
GWP	Mid	High	Low

ENVIRONMENTAL FRIENDLY & ENERGY EFFICIENCY

ENERGY EFFICIENCY



SUPER 5-STAR AIR CONDITIONERS

Get exploited. Have the lavish luxury of cool air and save enough for the future. LG's latest Super 5-Star Air Conditioners with 5.2 ISEER rating improve efficiency by 10% as compared to conventional 5-Star Air Conditioners with 4.7 ISEER rating.

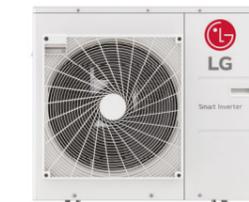
BENEFITS

- Consumes up to 10% less energy with respect to normal 5 Star Inverter AC
- Super 5-Star comes with 5.2 ISEER Rating

Improved Efficiency Vs. Normal 5-Star



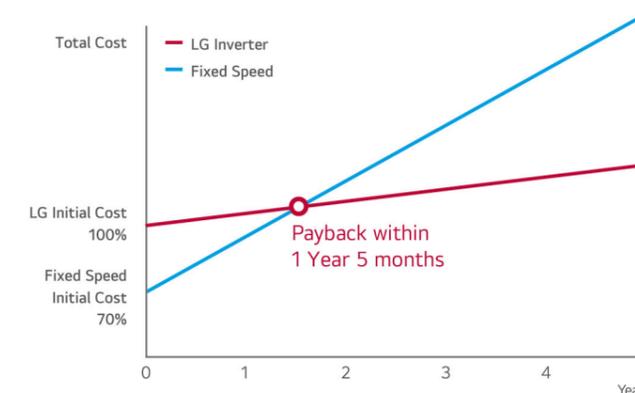
Less Energy Consumption



LG Super 5-Star Inverter (1.5 T)

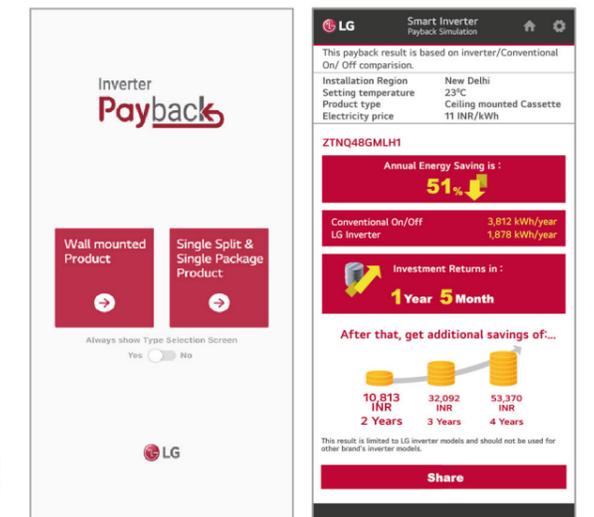
PAYBACK

Short Payback period and easy period check with LG PAYBACK App.



Capacity : 4 T Ceiling Mounted Cassette
Operating time : 08:00-22:00
Cooling partial load and power consumption calculated based on yearly weather data (Target indoor temperature : 23°C) India (Delhi)

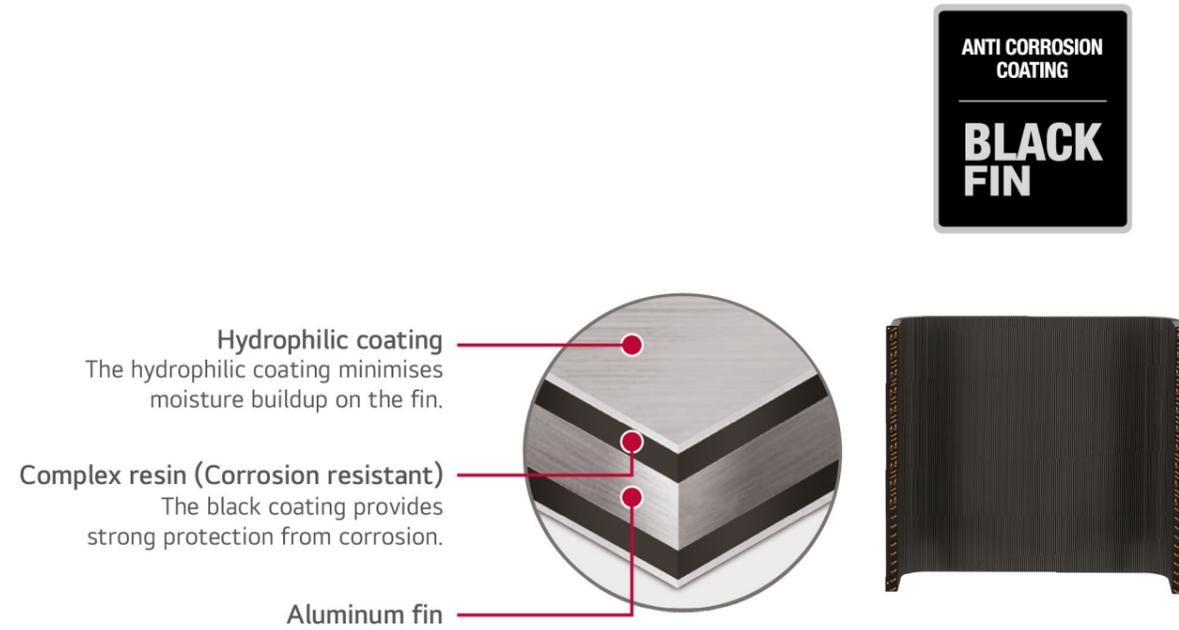
※ This result can be different depending on actual environment.
※ This energy & electric cost saving datas are simulated result with 'LG Inverter payback' application.
※ Initial cost of each product is based on market SRP (INR).



GET IT ON Google Play | Download on the App Store

To download our Payback app, search 'LG Inverter Payback' on Google Play Store or App Store.

BLACK FIN FOR CORROSION RESISTANCE



CORROSION RESISTANCE PROVEN BY CERTIFIED TESTS



LG Corrosion Resistance solution passed ISO accelerated corrosion test conducted by an independent test organisation and the result has been certified by prestigious global certification organisation, TÜV.



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

HI-GROOVED COPPER

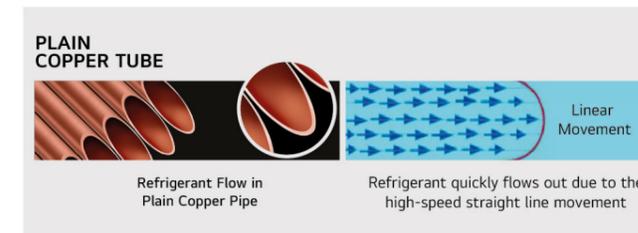


High grooved copper pipes serve dual benefits of better heat dissipation of refrigerant & increasing the durability of pipe.

BENEFITS

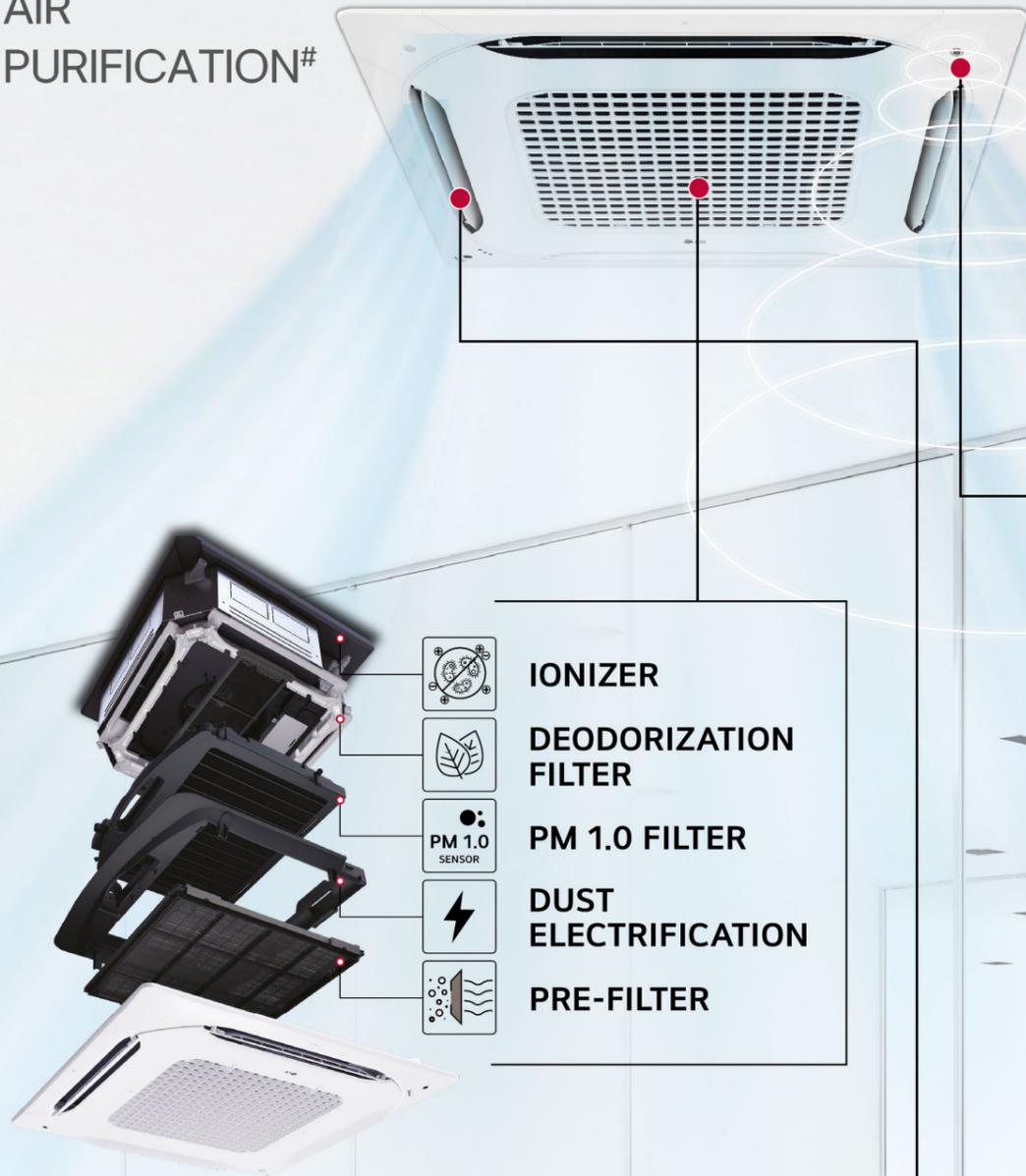
- Inner grooved structure enables the oscillatory movement for better heat dissipation as it increases travel time of refrigerant within pipes.
- Grooves also strengthens the overall pipe structure because of which they can withstand high pressure.
- More efficient heat transfer can withstand higher pressure and offers long-term durability.

	Plain	Grooved ★★★★	Hi-Grooved ★★★★★
Groove Height	NA	0.1mm	0.18mm
Per Meter Weight	30g/m	47g/m	47g/m



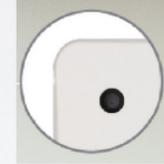
 **AIR PURIFICATION#**

 **HUMAN DETECTION***



-  **IONIZER**
-  **DEODORIZATION FILTER**
-  **PM 1.0 FILTER**
-  **DUST ELECTRIFICATION**
-  **PRE-FILTER**

Energy saving & comfort cooling through human detection.



Human Detection Sensor (PTVSM A0)



Energy Saving



Comfort Air

On/Off Control

Temperature Control

Indirect Airflow

Direct Airflow

Real Time Air Quality Monitoring



Mobile device



Remote controller



Indoor unit smart indicator

Optional Feature with 5 steps of Filtration available in Models: PTAHTP0 & PTAHMPO
 # Optional Feature with 3 steps of Filtration available in Models PTAHTP1 & PTAHMP1

SMART CONTROL

LG ThinQ™

Control your air conditioners using the smart internet devices on Android or iOS based smartphones.



Simple operation for various functions

- On / Off
- Mode Selection
- Current Temperature
- Set Temperature
- Vane Control
- Reservation
- Energy Monitoring
- Filter Management

※ Search "LG ThinQ™" on Google market or App store then download the app.
 ※ Wi-Fi modem (PWFMD200) is required by option.
 ※ In some countries, use of the google assistant system may be restricted.

MOBILE LG MV

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



INVERTER CASSETTE 1 WAY



REDDOT AWARD WINNING DESIGN ENHANCES LUXURY HOUSE INTERIOR

Compact and round shaped panel brings excellent fit to ceiling.

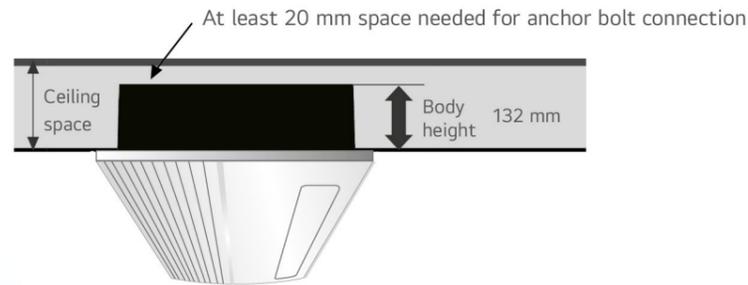


*2016 & 2022



SLIM & COMPACT INDOOR UNIT

Slim indoor unit provides flexibility of installation in the narrow ceiling space.



4 WAY AIR BLOW AUTO CONTROL

Auto Up / Down / Left / Right control provides even air distribution.



4 Way Air Blow

EVEN AIR DISTRIBUTION

4 WAY AIR BLOW CONTROL

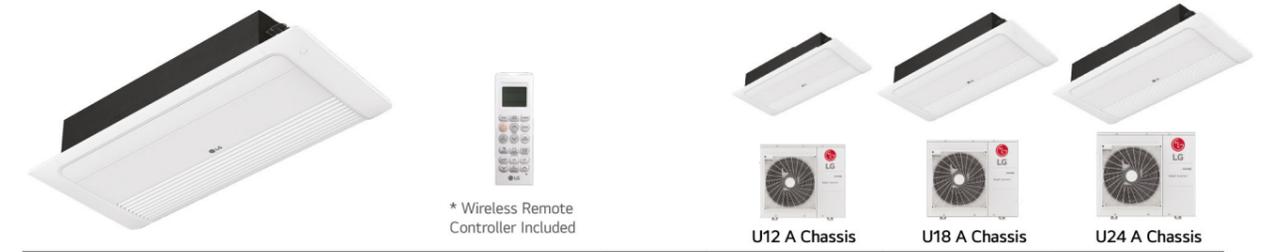
COMFORT COOLING (DIRECT / INDIRECT WIND)

By selecting the wind direction, user can easily achieve the preferred cooling comfort.



SPECIFICATIONS

INVERTER 1 WAY CASSETTE



1 Way Cassette				Unit	1.0T	1.5T	2.0T
Combination	Outdoor unit				ZTUQ12GULA1	ZTUQ18GTLA2	ZTUQ24GTLA1
	Indoor unit				ZTNQ12GULA1	ZTNQ18GTLA2	ZTNQ24GTLA1
Capacity	Cooling	Min.-Rated-Max.	kW		1.37 - 3.60 - 4.20	1.58 - 5.2 - 6.0	2.21 - 7.10 - 7.7
Power Input	Cooling	Rated	kW		1.20	1.55	2.45
EER / COP				W / W	3.00	3.35	2.9
ISEER					4.00	4.35	3.95
ISEER Grade					3★	3★	3★
Indoor Unit							
Model Name				Unit	ZTNQ12GULA1	ZTNQ18GTLA2	ZTNQ24GTLA1
Power Supply				V, ∅, Hz	230, 1, 50		
Air Flow Rate				m ³ /min	9 / 8 / 7	16/14/12	16/14/12
				CFM	318 / 283 / 247	565 / 494 / 424	565 / 494 / 424
Fan Motor				Type	BLDC		
Sound Pressure Level				H / M / L dB(A)	37 / 36 / 33	46/43/39	46/43/39
Dimensions	Net	W x H x D		mm	860 x 132 x 450	1180 x 132 x 450	1180 x 132 x 450
				kg	11.3	14.2	14.2
Piping Connections	Liquid Side			mm	∅ 6.35(1/4)	∅ 6.35(1/4)	∅ 9.52(3/8)
	Gas Side			mm	∅ 9.52(3/8)	∅ 12.7(1/2)	∅ 15.88(5/8)
	Drain Pipe	O.D. / I.D.		mm	∅ 32 / 25	∅ 32 / 25	∅ 32 / 25
Power and Communication Cable (included Earth)				No. x mm2 (AWG)	4C x 1.0(18)	4C x 1.0(18)	4C x 1.0(18)
Decoration Panel 1	Model Name				PT-UAHW0	PT-TAHW0	
	Color				White		
	Dimensions			W x H x D	mm	1,100 x 34 x 500	1,420 x 34 x 500
	Net Weight			kg	3.3	4.5	
Outdoor Unit							
Model Name				Unit	ZTUQ12GULA1	ZTUQ18GTLA2	ZTUQ24GTLA1
Power Supply				V, ∅, Hz	230, 1, 50		
Compressor	Type			-	Twin Rotary		
Heat Exchanger	Type (Coating)			-	Fin & Tube Type (Hydrophilic + Black Fin)		
Refrigerant	Type			-	R32		
	Control			-	Electronic Expansion Valve		
Fan Motor	Type				BLDC		
Sound Pressure Level	Cooling	Rated		dB(A)	50	54	54
Wiring Connections	Power Supply Cable (included Earth)			No. x mm2 (AWG)	3C x 1.5(14)	3C x 1.5(14)	3C x 2.5(12)
Circuit Breaker				A	16	16	25
Casing Color				-	Warm Gray		
Dimensions net	W x H x D			mm	717 X 483 X 230	770 x 545 x 288	870 x 650 x 330
Net Weight				kg	24.9	31.5	41.5
Piping Connections	Liquid	Outer Dia.		mm	∅ 6.35 (1/4)	∅ 6.35 (1/4)	∅ 9.52 (3/8)
	Gas	Outer Dia.		mm	∅ 9.52 (3/8)	∅ 12.7 (1/2)	∅ 15.88 (5/8)
Piping Length	Min. / Max.		m		5 (16.4) / 30 (98.4)	5 (16.4) / 30 (98.4)	5 (16.4) / 50 (164.0)
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.		m	15 (49.21)	20(65.6)	30(98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.		°C DB	-5 - 52		

Note: Performances are based on the following condition:
 • Cooling: Indoor Ambient Temp. 27°CDB/19°CWB, Outdoor Ambient Temp. 35°CDB/24°CWB • Interconnected Pipe Length is 7.5mm and difference of Elevation (Outdoor-Indoor Unit) in 0m.
 *To use function, correct combination of panel and accessory need to be purchased (Refer to panel info)

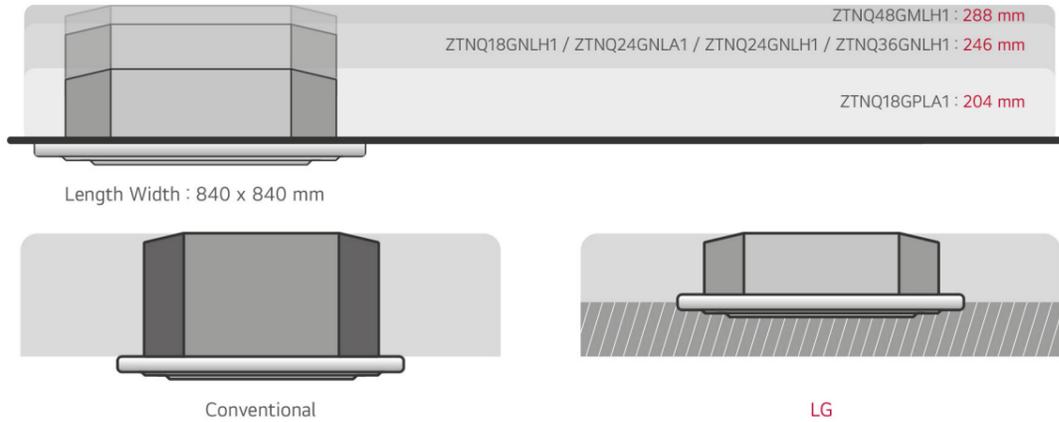
Accessories	12k TU Chassis	18k TT Chassis	24k TT Chassis
1 Way CST Panel for Air Purification kit (Glossy finish)	PT-UPHG0	PT-TPHG0	
Dimensions	1,160 x 34 x 500		
Human Detection kit	-		
Air Purification Kit*	PTAHTP0		
Air Purification Kit (SIMPLE)*	PTAHTP1		
Wi-Fi Module	PWFMD200		
PI 485	PMNFP14A1		
Ionizer#	PAS-NAUDR2		

*Air Purification is optional feature * SIMPLE Air Purification kit (PTAHTP1) comes with 3 steps of Filtration. # Ionizer : Optional Feature can be used with new Air Purification Kit model (PTAHTP1)

INVERTER CASSETTE 4 WAY

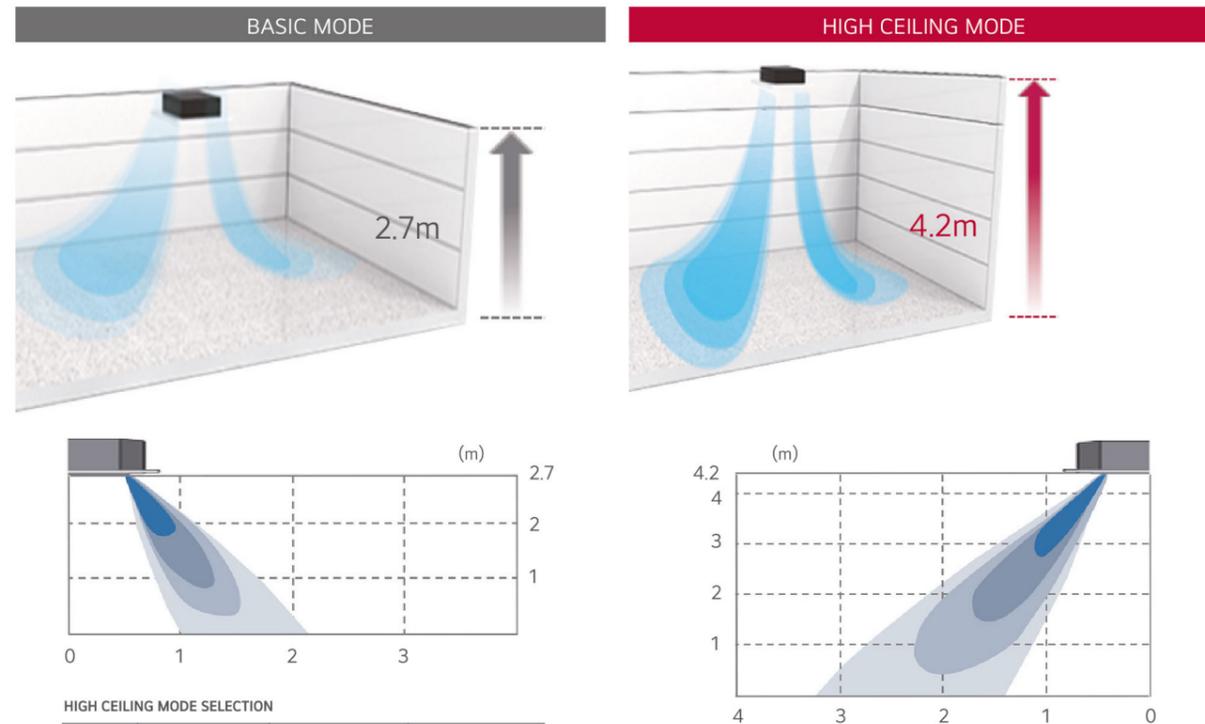
COMPACT SIZE

Slim & compact design not only saves space but also reduces installation costs. It's designed to suit most of building designs and can easily fit into various spaces.



HIGH CEILING MODE

Airflow in a space with a 4.2 m ceiling height is possible with this indoor unit. Further, air flow can be strengthened by adjusting the fan speed.



HIGH CEILING MODE SELECTION

Capacity	≤ 9.0 kW	> 9.0 kW	Mode Selection
Ceiling Height	H ≤ 2.3m	H ≤ 2.3m	Low Ceiling
	2.3m < H ≤ 2.7m	2.7m < H ≤ 3.2m	Standard
	2.7m < H ≤ 3.1m	3.2m < H ≤ 3.6m	High Ceiling
	3.1m < H ≤ 3.6m	3.6m < H ≤ 4.2m	Super High Ceiling

INVERTER CASSETTE 4 WAY

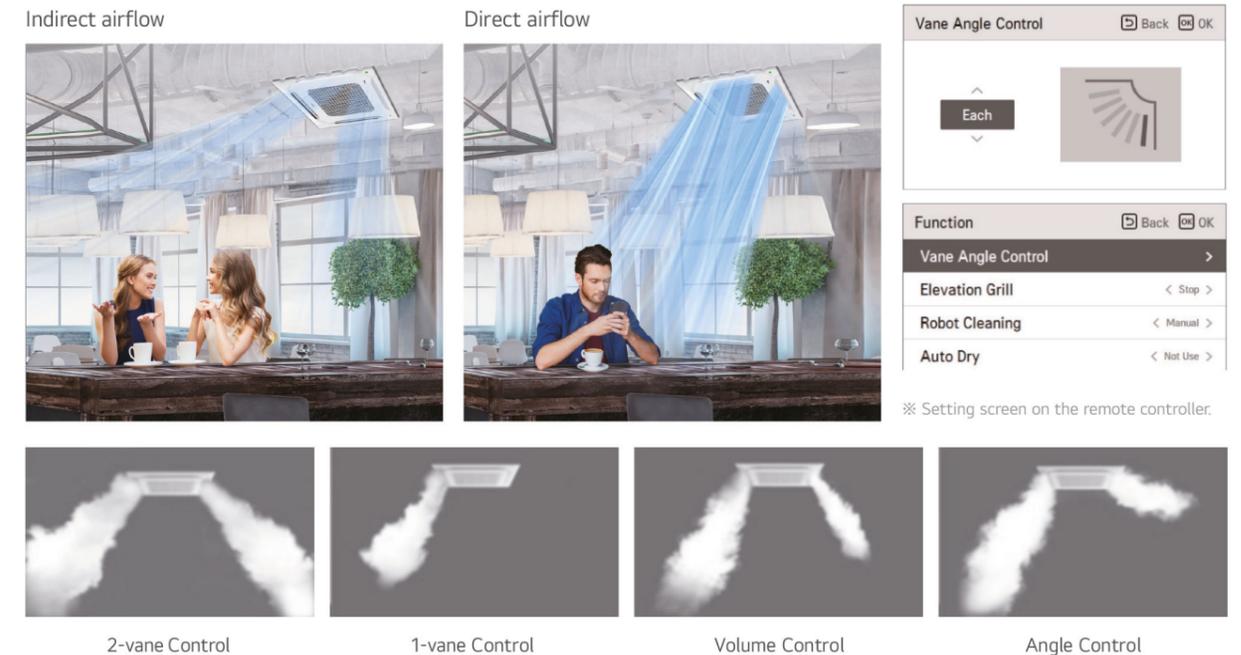
CONVENIENT PANEL INSTALLATION

The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe. And it is easy to install the panel to the body simply by using our new button-type design.



INDEPENDENT CONTROL OF AIRFLOW

The independent vane operation feature uses separate 4 motors, making it possible to control all four vanes independently. The independent control provides optimal comfort for each user. It is capable of handling inclination angles between 20° ~ 70°.



SPECIFICATIONS

INVERTER CASSETTE 4 WAY



4 Way Cassette				Unit	1.5T	1.5T (High Efficiency)	2.0T			
Combination	Outdoor unit				ZTUQ18GPLA1	ZTUQ18GNLH2	ZTUQ24GNLA2			
	Indoor unit				ZTNQ18GPLA1	ZTNQ18GNLH2	ZTNQ24GNLA2			
Rated Capacity	Cooling	Min.-Rated-Max.	kW		1.55 - 5.15 - 5.46	1.58 - 5.27 - 6.0	2.02 - 6.75 - 7.08			
Power Input	Cooling	Rated	kW		1.81	1.29	2.05			
EER / COP			W / W		2.85	4.09	3.29			
ISEER					3.95	5.25	4.35			
ISEER Grade					3★	5★	3★			
Indoor Unit										
Model Name				Unit	ZTNQ18GPLA1	ZTNQ18GNLH2	ZTNQ24GNLA2			
Power Supply				V, Ø, Hz	230, 1, 50					
Air Flow Rate				H / M / L	m3/min	17.0 / 15.0 / 13.0	21.0 / 18.5 / 15.0			
					CFM	600 / 530 / 459	742 / 653 / 530	742 / 653 / 530		
Fan Motor	Type			BLDC						
Sound Pressure Level	Cooling	H / M / L	dB(A)	40 / 36 / 33						
Dimensions	Body W x H x D			mm 840 x 204 x 840						
Weight	Body			kg 20.5						
Piping Connections	Liquid Side			mm Ø 6.35 (1/4)						
	Gas Side			mm Ø 12.7 (1/2)						
	Drain Pipe (O.D. / I.D.)			mm Ø 32.0 / 25.0						
Power and Communication Cable (included Earth)				No. x mm2 (AWG)	4C x 1.0 (18)					
Decoration Panel				Model Name				PT-MAGW0		
				Casing Colour				Morning Fog		
				Dimensions W x H x D			mm 950 x 35 x 950			
				Net weight			kg 5.0			
Outdoor Unit										
Model Name				Unit	ZTUQ18GPLA1	ZTUQ18GNLH2	ZTUQ24GNLA2			
Power Supply				V, Ø, Hz	230, 1, 50					
Compressor	Type			Twin Rotary						
Heat Exchanger	Type (Coating)			Fin & Tube Type (Hydrophilic + Black Fin)						
Refrigerant	Type			R32						
	Control			Electronic Expansion Valve						
Fan Motor	Type			BLDC						
Sound Pressure Level	Cooling	Rated	dB(A)	50						
Wiring Connections	Power Supply Cable (included Earth)			No. x mm2 (AWG)	3C x 1.5 (16)					
Circuit Breaker				A	16					
Casing Color				Warm Gray						
Dimensions	W x H x D			mm	717 x 483 x 230	770 x 545 x 288	770 x 545 x 288			
Net Weight				kg	24.9	31.5	31.7			
Piping Connections	Liquid	Outer Dia.		mm	Ø 6.35 (1/4)					
	Gas	Outer Dia.		mm	Ø 12.7 (1/2)					
Piping Length	Min. / Max.		m	5 (16.4) / 30 (98.4)						
Maximum Height Difference	Outdoor Unit - Indoor Unit		Max.	m 15(49.2)						
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.		°C DB	-5 - 52					

Accessories*			
Panel			
Dimension	950 x 35 x 950		
Human Detection Kit	PTVSMA0		
Air Purification Kit	PTAHMP0, PTAHMP1*		
Wi-Fi Module	PFWMDD200		
PI485	PMNFP14A1		
Ionizer*	PAS-NATDR2		

* Ionizer : Optional Feature can be used with Air Purification Kit model - PTAHMP1
 * Air purification is an optional Feature & comes with 3 Step of Filtration (PTAHMP1 model) & 5 steps of Air filtration (PTAHMP0 model)

SPECIFICATIONS

INVERTER CASSETTE 4 WAY



4 Way Cassette				Unit	2.0T (High Efficiency)	3.0T (High Efficiency)	4.0T (High Efficiency)			
Combination	Outdoor unit				ZTUQ24GNLH1	ZTUQ36GNLH1	ZTUQ48GMLH2			
	Indoor unit				ZTNQ24GNLH1	ZTNQ36GNLH1	ZTNQ48GMLH2			
Rated Capacity	Cooling	Min.-Rated-Max.	kW		2.11 - 7.05 - 7.74	3.16 - 10.55 - 11.08	4.2 - 14.07 - 14.7			
Power Input	Cooling	Rated	kW		1.73	3.45	4.8			
EER / COP			W / W		4.08	3.06	2.93			
ISEER					5.25	4.20	4.20			
ISEER Grade					5★	5★	5★			
Indoor Unit										
Model Name				Unit	ZTNQ24GNLH1	ZTNQ36GNLH1	ZTNQ48GMLH2			
Power Supply				V, Ø, Hz	230, 1, 50					
Air Flow Rate				H / M / L	m3/min	21.0 / 18.5 / 15.0	25.0 / 22.0 / 19.0			
					CFM	742 / 653 / 530	883 / 777 / 671	953 / 812 / 671		
Fan Motor	Type			BLDC						
Sound Pressure Level	Cooling	H / M / L	dB(A)	40 / 35 / 29						
Dimensions	Body W x H x D			mm 840 x 246 x 840						
Weight	Body			kg 23.6						
Piping Connections	Liquid Side			mm Ø 9.52 (3/8)						
	Gas Side			mm Ø 15.88 (5/8)						
	Drain Pipe (O.D. / I.D.)			mm Ø 32.0 / 25.0						
Power and Communication Cable (included Earth)				No. x mm2 (AWG)	4C x 1.0 (18)					
Decoration Panel				Model Name				PT-MAGW0		
				Casing Colour				Morning Fog		
				Dimensions W x H x D			mm 950 x 35 x 950			
				Net weight			kg 5.0			
Outdoor Unit										
Model Name				Unit	ZTUQ24GNLH1	ZTUQ36GNLH1	ZTUQ48GMLH2			
Power Supply				V, Ø, Hz	230, 1, 50					
Compressor	Type			Twin Rotary						
Heat Exchanger	Type (Coating)			Fin & Tube Type (Hydrophilic + Black Fin)						
Refrigerant	Type			R32						
	Control			Electronic Expansion Valve						
Fan Motor	Type			BLDC						
Sound Pressure Level	Cooling	Rated	dB(A)	54						
Wiring Connections	Power Supply Cable (included Earth)			No. x mm2 (AWG)	3C x 2.5 (14)					
Circuit Breaker				A	25					
Casing Colour				Warm Gray						
Dimensions	W x H x D			mm	870 x 650 x 330	870 x 650 x 330	950 x 834 x 330			
Net Weight				kg	41.5	41.5	61.5			
Piping Connections	Liquid	Outer Dia.		mm	Ø 9.52 (3/8)					
	Gas	Outer Dia.		mm	Ø 15.88 (5/8)					
Piping Length	Min. / Max.		m	5 (16.4) / 50 (164.0)						
Maximum Height Difference	Outdoor Unit - Indoor Unit		Max.	m 30 (98.4)						
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.		°C DB	-5 - 52					

Note:
 Performances are based on the following condition:
 • Cooling: Indoor Ambient Temp. 27°CDB/19°CWB, Outdoor Ambient Temp. 35°CDB/24°CWB
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.
 • To use function, correct combination of panel and accessory need to be purchased (Refer to panel info)

INVERTER LOW STATIC DUCT



MINIMIZED HEIGHT

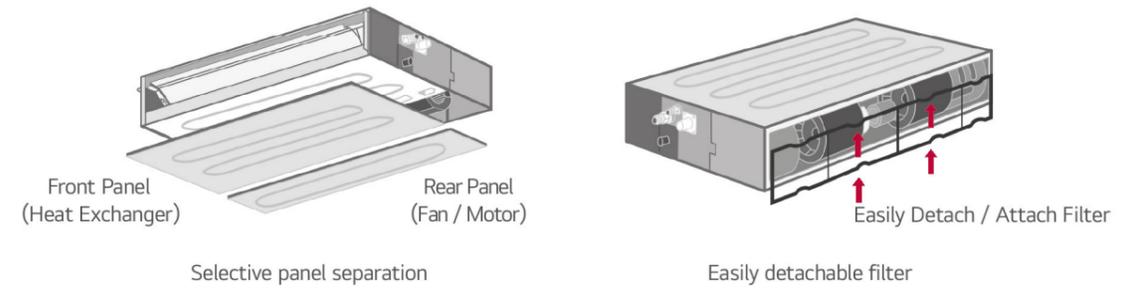
New low-static ducts provide ideal solution for installation in limited space.



INVERTER LOW STATIC DUCT

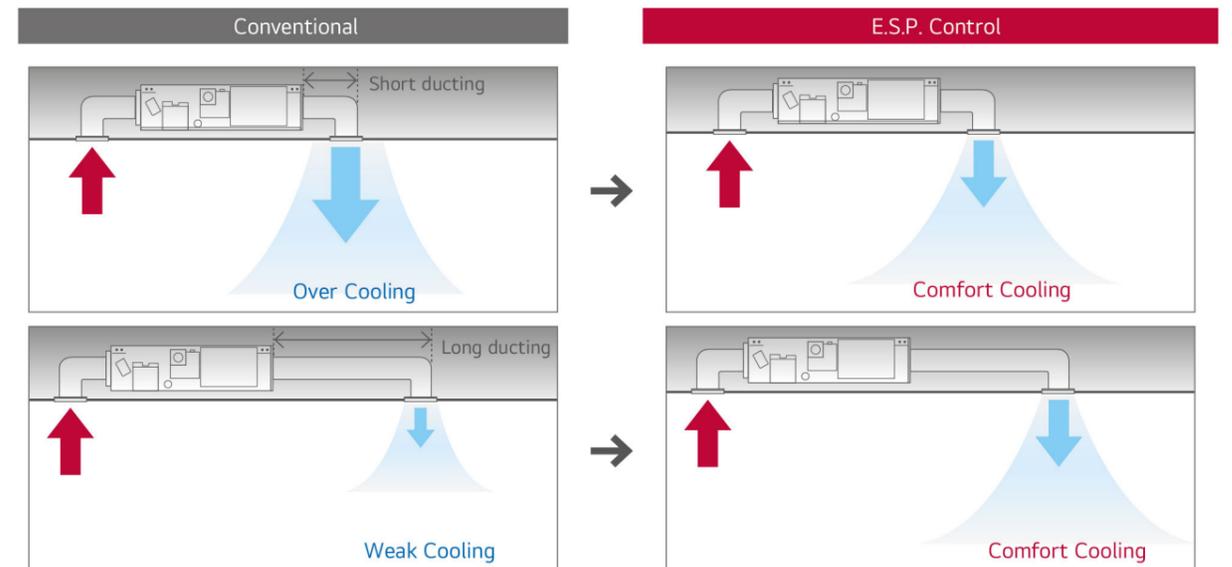
EASY SERVICE & MAINTENANCE

Disassembly of the entire panel is no longer required as the new panel is divided into two parts. One part is for heat exchanger inspection and the other one for fan/motor inspection. The filter can be easily detached and re-attached even in limited spaces.



E.S.P. (EXTERNAL STATIC PRESSURE) CONTROL

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



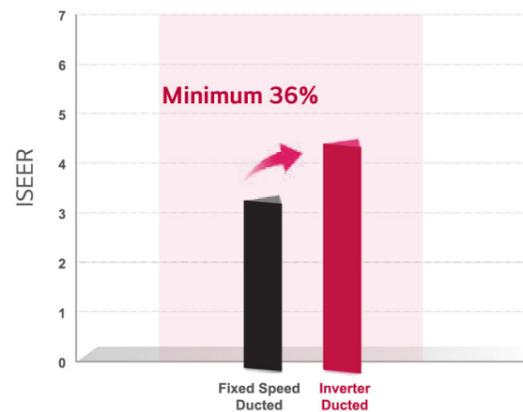
INVERTER HIGH STATIC DUCT



HIGH ENERGY EFFICIENCY

The new inverter ducted units perform at much higher energy efficiency than conventional ducted splits. It is because they comprise of Inverter drives, BLDC motors, Electronic expansion valves and other efficiency components.

A comparison of the 2 systems is given below :



* ISEER value is simulated data as per BEE ISEER Regulation

INVERTER HIGH STATIC DUCT

HIGH ENERGY EFFICIENCY AT PART LOADS

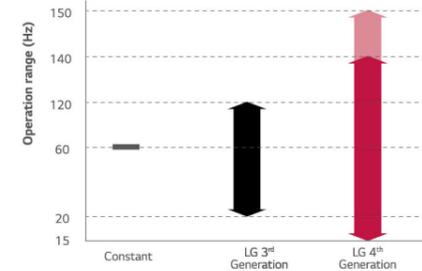
Low load operation efficiency is improved by concentration coil and motor and 6 by-pass valves.

6 by-pass valves

- Compressor reliability is maximised with 6 by-pass valves
- Prevents compressor damage due to excessively compressed refrigerant more efficient than 4 by-pass valves

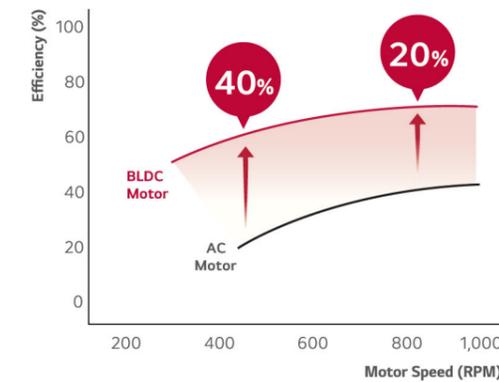
Extended Compressor Speed 150Hz

- Rapid operation response
- Capable of reaching required temperature quickly
- Increases part load efficiency



HIGHER EFFICIENCY WITH BRUSHLESS DC (BLDC) MOTORS

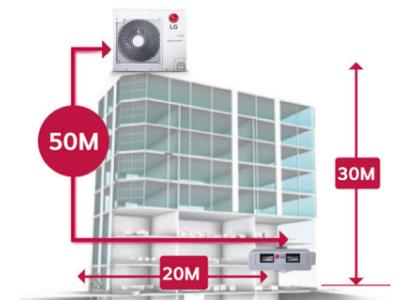
BLDC motors are more efficient than conventional AC motors used by others. BLDC motors are about 40% more efficient at lower speeds and about 20% more efficient at higher speeds.



LONG DISTANCE PIPING

The inverter ducted units are designed for a 30 m vertical height and a total refrigerant piping distance of 50 m between the indoor and outdoor units.

The units are, thus, suitable for tall and glass facade buildings.



SPECIFICATIONS

INVERTER LOW STATIC DUCT



* Wireless Remote Controller Included

U18 A Chassis

U24 A Chassis

Low Static Duct				Unit		1.5 T		2.0 T	
Combination	Outdoor unit				ZBUQ18GL5A2		ZBUQ24GL6A1		
	Indoor unit				ZBNQ18GL5A2		ZBNQ24GL6A1		
Rated Capacity	Cooling	Min. - Rated - Max.		kW		1.58 - 5.27 - 6.00		2.11 - 7.05 - 7.74	
Power Input	Cooling	Rated		kW		1.70		2.15	
EER / COP				W / W		3.1		3.28	
Indoor Unit				Model Name		ZBNQ18GL5A2		ZBNQ24GL6A1	
Power Supply				V, \emptyset , Hz		230, 1, 50			
Air Flow Rate	H / M / L		m ³ /min		15.0 / 12.5 / 10.0		20.0 / 16.0 / 12.0		
			CFM		530 / 441 / 353		706 / 565 / 424		
Fan Motor	Type			BLDC					
Sound Pressure Level	Cooling	H / M / L	dB(A)		36 / 34 / 31		39 / 35 / 32		
Exterior	Colour			Steel Gray					
Dimensions	W x H x D		mm		900 x 190 x 460		1,100 x 190 x 460		
Net Weight			kg		19.7		22.0		
Shipping Weight			kg		23.6		26.2		
Piping Connections	Liquid Side			mm		\emptyset 6.35 (1/4)		\emptyset 9.52 (3/8)	
	Gas Side			mm		\emptyset 12.7 (1/2)		\emptyset 15.88 (5/8)	
	Drain Pipe	O.D. / I.D.	mm		\emptyset 32.0 / 25.0		\emptyset 32.0 / 25.0		
Power and Communication Cable (included Earth)			No. x mm ² (AWG)		4C x 1.0 (18)		4C x 1.0 (18)		
Outdoor Unit				Model Name		ZBUQ18GL5A2		ZBUQ24GL6A1	
Power Supply				V, \emptyset , Hz		230, 1, 50			
Compressor	Type			Twin Rotary					
Heat Exchanger	Type (Coating)			Fin & Tube Type (Hydrophilic + Black Fin)					
Refrigerant	Type			R32					
	Control			Electronic Expansion Valve					
Fan Motor	Type			BLDC					
Sound Pressure Level	Cooling	Rated	dB(A)		54		54		
Wiring Connections	Power Supply Cable (included Earth)			No. x mm ² (AWG)		3C x 1.5 (14)		3C x 2.5 (12)	
Circuit Breaker			A		16		25		
Casing Colour					Warm Gray				
Dimensions	W x H x D		mm		770 x 545 x 288		870 x 650 x 330		
Net Weight			kg		31.5 (69.4)		41.5 (91.4)		
Piping Connections	Liquid	Outer Dia.	mm		\emptyset 6.35 (1/4)		\emptyset 9.52 (3/8)		
	Gas	Outer Dia.	mm		\emptyset 12.7 (1/2)		\emptyset 15.88 (5/8)		
Piping Length	Min. / Max.		m		5 (16.4) / 30 (98.4)		5 (16.4) / 50 (164.0)		
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.		m		20 (65.6)		30 (98.4)	
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.	°C DB		-5 - 52				
Accessories*				Wi-Fi Module		PWFMDD200			
				PI485		PMNFP14A1			

Note:
 Performances are based on the following condition:
 • Cooling: Indoor Ambient Temp. 27° CDB/19°CWB, Outdoor Ambient Temp. 35°CDB/24°CWB
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.

SPECIFICATIONS

INVERTER HIGH STATIC DUCT



* Wired Remote Controller Included

U4 Chassis

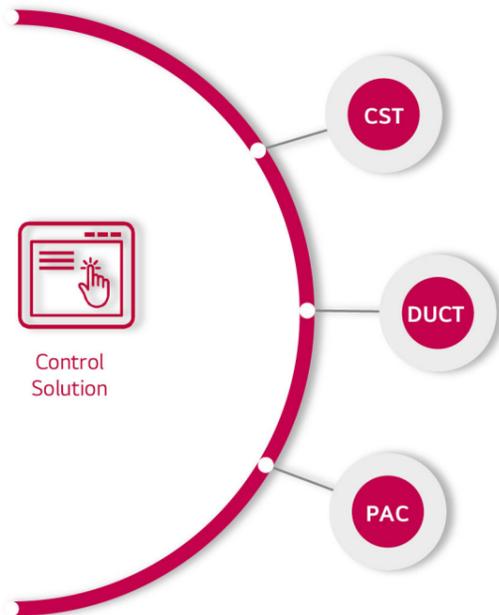
U3 Chassis

U7 Chassis

High Static Duct				Unit		5.5 T		8.5 T		11.0 T	
Combination	Outdoor unit				ZBUQ66LRA0		ZBUQ102L8A0		JBUQ132L8A0		
	Indoor unit				ZBNQ66LRA0		ZBNQ102L8A0		JBNQ132L8A0		
Rated Capacity	Cooling	Min. - Rated - Max.		kW		5.28 - 17.58 - 19.34		8.44 - 28.13 - 30.94		10.54 - 35.16 - 38.67	
Power Input	Cooling	Rated		kW		6.7		11		10	
EER/COP				W / W		2.62		2.56		3.52	
ISEER						3.76		3.73		3.89	
Indoor Unit				Model Name		ZBNQ66LRA0		ZBNQ102L8A0		JBNQ132L8A0	
Power Supply				V, \emptyset , Hz		230, 1, 50					
Air Flow Rate	H / M / L		m ³ /min		58 / 52 / 46		90 / 78 / 65		113 / 100 / 89		
			CFM		2048 / 1836 / 1625		3178 / 2755 / 2295		3991 / 3531 / 3143		
Fan Motor	Type			BLDC							
Sound Pressure Level	Cooling	H / M / L	dB(A)		45 / 43 / 41		52 / 50 / 48		49 / 47 / 45		
Dimensions	Body	W x H x D		mm		1,230 x 380 x 590		1,562 x 460 x 688		1,562 x 460 x 688	
Net Weight	Body			kg		48		81		89	
Piping Connections	Liquid			mm		\emptyset 9.52 (3/8)		\emptyset 9.52 (3/8)		\emptyset 12.7 (1/2)	
	Gas			mm		\emptyset 19.05 (3/4)		\emptyset 22.2 (7/8)		\emptyset 22.2 (7/8)	
	Drain (O.D. / I.D.)			mm		\emptyset 25.4 / 19.4		\emptyset 25.4 / 21.0		\emptyset 25.4 / 21.0	
Power and Communication Cable (included Earth)			No. x mm ² (AWG)		4C x 1.0 (18)		4C x 1.0 (18)		4C x 1.0 (18)		
Outdoor Unit				Model Name		ZBUQ66LRA0		ZBUQ102L8A0		JBUQ132L8A0	
Power Supply				V, \emptyset , Hz		415, 3, 50					
Compressor	Type			Twin Rotary		Twin Rotary		Twin Rotary		Scroll	
Heat Exchanger	Type (Coating)			Fin & Tube Type (Hydrophilic + Black Fin)							
Refrigerant	Type			R32		R32		R32		R410A	
	Control			Electronic Expansion Valve							
Fan Motor	Type			BLDC							
Sound Pressure Level	Cooling	Rated	dB(A)		55		66		63		
Wiring Connections	Power Supply Cable (included Earth)			No. x mm ² (AWG)		5C x 4.0 (12)		5C x 6.0 (10)		5C x 6.0 (8)	
Circuit Breaker			A		20		40		40		
Casing Colour					Warm Gray						
Dimensions	W x H x D		mm		950 x 834 x 330		950 x 1,380 x 330		1,090 x 1,625 x 380		
Net Weight			kg		76		100		150		
Piping Connections	Liquid	Outer Dia.	mm		\emptyset 9.52 (3/8)		\emptyset 9.52 (3/8)		\emptyset 12.7 (1/2)		
	Gas	Outer Dia.	mm		\emptyset 19.05 (3/4)		\emptyset 22.2 (7/8)		\emptyset 22.2 (7/8)		
Piping Length	Max.		m		50 (164.0)		50 (164.0)		50 (164.0)		
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.		m		30 (98.4)		30 (98.4)		30 (98.4)	
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.	°C DB		-5 - 53		-5 - 53		-5 - 53		
Accessories*				Wi-Fi Module		PWFMDD200					
				PI485		PMNFP14A1					

Note:
 Performances are based on the following condition:
 • Cooling: Indoor Ambient Temp. 27° CDB/19°CWB, Outdoor Ambient Temp. 35°CDB/24°CWB
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.
 • R32 available in all models except 11T Duct

CONTROL SOLUTION



CENTRAL CONTROL SOLUTION

AC Ez Touch



PACEZA000

- 5" Touch controller
- PI485GW required
- Individual controller lock
- Yearly schedule
- Max 64 indoor unit

INDIVIDUAL CONTROLLER

Standard III



PREMTB101

- 4.3" colour display with a modern design
- Soft touch button
- Yearly schedule

DRY CONTACT SOLUTION

Dry Contact



PDRYCB320

- 1 or 2 contact input
- With 3rd party thermostat
- With automation system

CONTROL SOLUTION

CONTROLLER LINE UP

Smart management for a variety of usages.

CENTRAL CONTROLLER		INDIVIDUAL CONTROLLER		
ACP 5 PACP5A000 <ul style="list-style-type: none"> • Max. 256 unit • PC, Smartphone, Tablet control • Yearly schedule • BACnet / Modbus gateway • Individual controller lock • Operation log • Floor map view 		Standard II PREMTB001	Standard III PREMTB101	NEW PREMTA201
AC Smart 5 PACS5A000 <ul style="list-style-type: none"> • Max. 128 unit • 10.2" touch • Yearly schedule • BACnet / Modbus gateway • Individual controller lock • Operation log • Floor map view 		Premium PREMTA000 (5" touch colour)	Wireless R/C PWLSSB21H	
AC Ez Touch PACEZE000 <ul style="list-style-type: none"> • Max. 64 unit • 5" touch • Yearly schedule • Individual controller lock • Operation log 		Wi-Fi Modem PWFMD200 (For Indoor Unit)		
BMS PROTOCOL GATEWAY ACP LonWorks PLNWK000 (Indoor Unit -64)		ETC. ACCESSORIES Dry Contact PDRYCB320		
		PI 485 PMNFP14A1 (For Outdoor Unit)		



SYSTEM
AIR CONDITIONING

LIGHT COMMERCIAL AIR CONDITIONING PRODUCTS



- Energy Efficiency
- Black Fin Protection
- Air Purification
- Human Detection
- Smart Control

February 2025

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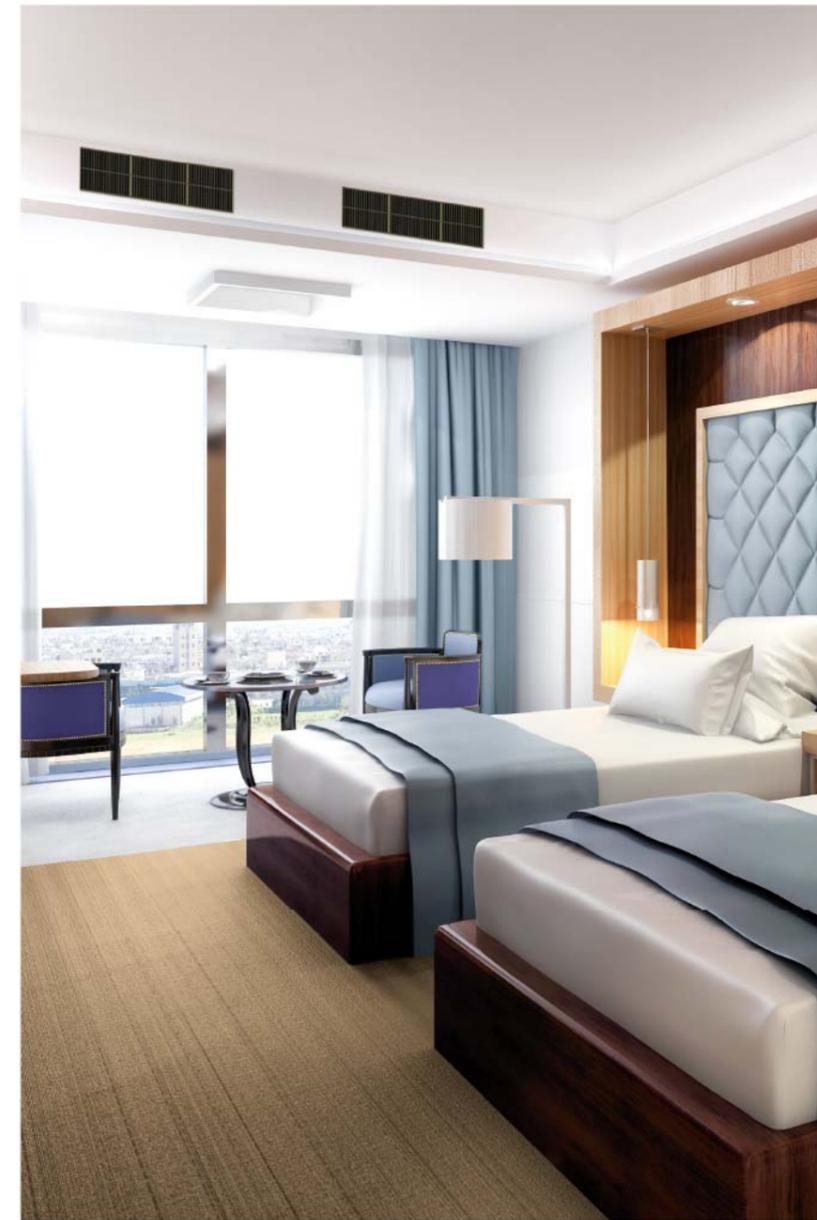
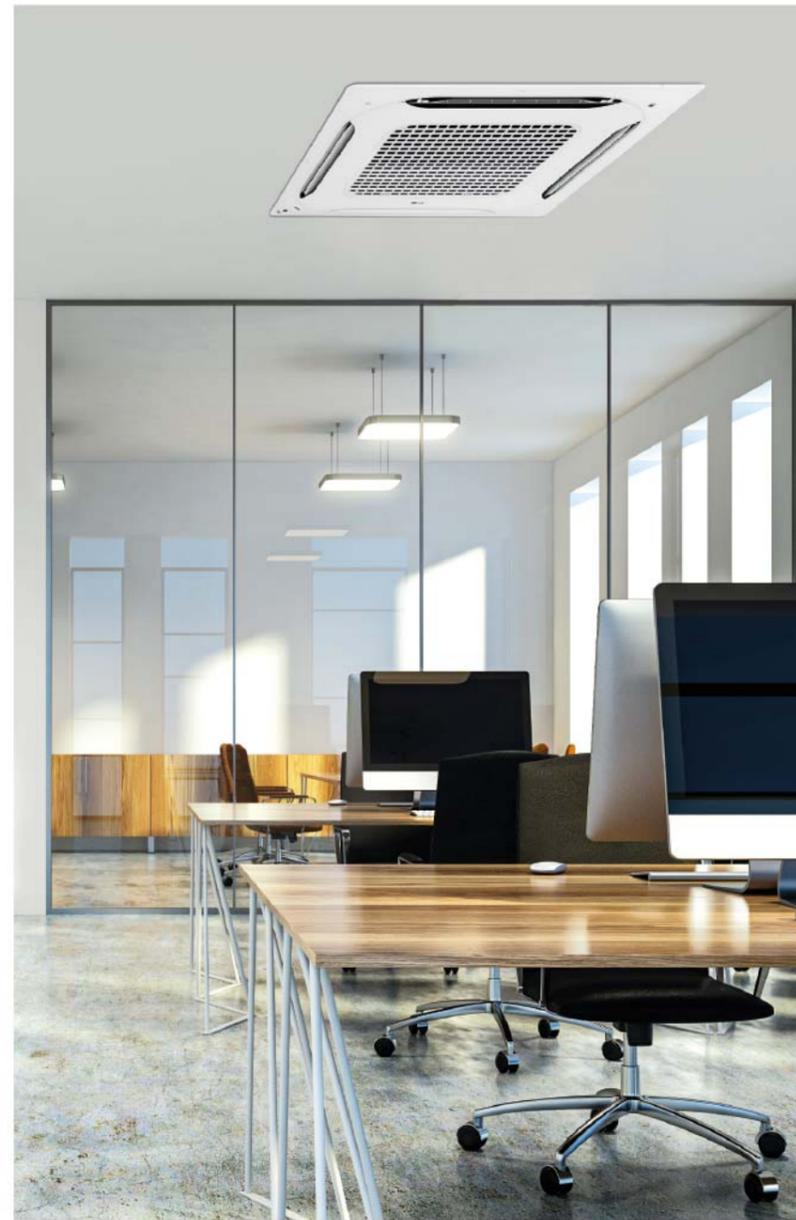
Regd. Office: LG Electronics India Limited, A-24/6, Mohan Cooperative Industrial Estate, Mathura Road, New Delhi-110044 CIN No. U32107DL1997PLC220109

Please contact us at North: 9717117716, South: 7824805486, East: 7875759665, West: 9923108310

Creative Visualization. Product images shown is for representation purposes only. Actual product may vary in size. Product features may vary from model to model.

Life's Good.

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LG Air Solution 04

Core Benefits of LG Smart Inverter Single CAC 05

- Energy Efficiency • Black Fin Protection • Air Purification • Human Detection • Smart Control

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LG Smart Inverter Single CAC 15

- Inverter Cassette 1 Way • Inverter Cassette 4 Way
- Inverter Low Static Duct • Inverter High Static Duct

Control Solution 30

LG AIR SOLUTION



*LG Air Solution production sites

AS A TOTAL HVAC & ENERGY SOLUTION PROVIDER

The LG Electronics Air Solution Business Unit is a provider of total HVAC and energy solution. The company offers a broad portfolio of air conditioner products that are compatible with any building anywhere, including compact residences, towering skyscrapers, massive factories and giant concert halls. As a true total HVAC and energy solution provider, LG also supplies even the largest buildings and industrial facilities with central air conditioning systems such as chillers and efficient control solutions.

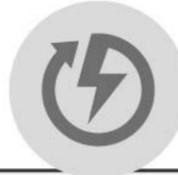
The history of the business unit goes back to 1968, when LG (then called GoldStar) rolled out Korea's first residential air conditioner. As the company first began making chillers for large commercial buildings in 1970, the commercial air conditioning business has grown exponentially, especially within the last 20 years. In 2008, LG sold its 100 millionth air conditioning unit, becoming the first company in the industry to reach that significant milestone. The success of LG air conditioners has allowed the company to become one of the major players in the highly competitive HVAC industry. By enhancing the industry's B2B infrastructure and finding further solutions for the HVAC sector, LG has risen to become a total HVAC solutions specialist. The company has steadily increased its sales and market share by introducing energy efficient and reliable HVAC solutions and actively pursuing new opportunities wherever they arise. This sustained, excellent performance is built on a solid foundation of global R&D and advanced manufacturing capabilities.

LG ACADEMIES PROVIDE BEST SKILL

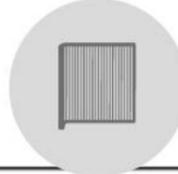


LG believes in Knowledge sharing and this being done at LGEIL with academies located at Greater Noida, Pune, Bangalore and Mumbai. These academies with dedicated trainer impart product information to service including hands-on practise with Brazing system. LG academies ensures in providing best skill to Customer/Dealers and LG Employees with there scheduled training calendar.

CORE BENEFITS

1  **ENVIRONMENTAL FRIENDLY & ENERGY EFFICIENCY**  

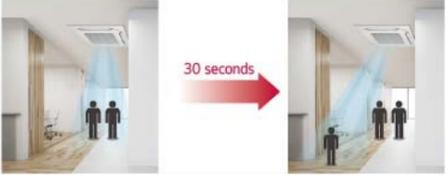
LG's revolutionary Inverter technology boasts of powerful yet quiet performance while minimizing energy consumption. In order to reduce environmental destruction, refrigerant R32 is internationally acclaimed for being eco-friendly.

2  **BLACK FIN PROTECTION** 

LG's exclusive "Black Fin" heat exchanger is designed to perform even in corrosive environments.

3  **AIR PURIFICATION** 

Provides fresh air with powerful air cleaning process and offers real time air quality monitoring system.

4  **HUMAN DETECTION** 

Airflow direction is controlled automatically by motion sensor that detects the activity of people every 30 seconds.

5  **SMART CONTROL** 

LG Single CAC responds to diverse building environments with LG ThinQ-based AI control and individual/central integrated control solutions.

LINE UP



Product	1.0 T	1.5 T	2.0 T	3.0 T
Inverter Cassette 4 Way 				
Inverter Cassette 1 Way 				
Inverter Low Static Duct 				
Inverter High Static Duct 				

	4.0 T	5.5 T	8.5 T	11.0 T*
				
				

*R32 available in all models except 11T Duct

ENVIRONMENTAL FRIENDLY & ENERGY EFFICIENCY

ENVIRONMENTAL FRIENDLY



R32 is a highly efficient refrigerant with a lower global warming potential as compared to R410A, a commonly found refrigerant in residential air conditioners.

HOW IT WORKS?

If compressor is the heart of AC then the refrigerant is the blood. The heat is transferred between indoor & outdoor due to circulation of refrigerant. Eco-friendly Refrigerant (R32) has better heat dissipation. It gives better result in lower quantity & has remarkable lower environmental impact.

R32 (Difluorometane) is an organic compound

It requires 20% less gas charge

Powerful cooling & higher efficiency

BENEFITS

Zero Ozone Depletion (ODP) & Lower Global Warming Potential (GWP). The quantity of R32 refrigerant required is appreciably lower compared to the R410A refrigerant. Consequently, this results in decreasing the potential of global warming. Comparative case studies of the different refrigerants are indicated in the table and chart as below:

	R22	R410A	R32
ODP	Medium	Nil	Nil
GWP	Mid	High	Low

ENVIRONMENTAL FRIENDLY & ENERGY EFFICIENCY

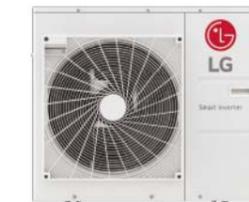
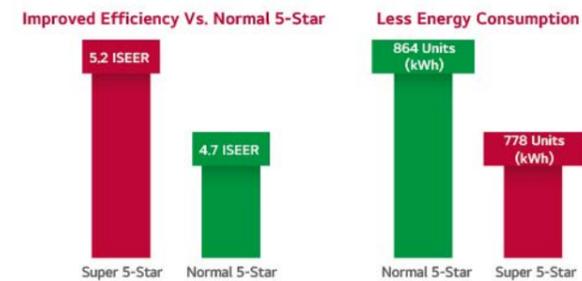
ENERGY EFFICIENCY



Get exploited. Have the lavish luxury of cool air and save enough for the future. LG's latest Super 5-Star Air Conditioners with 5.2 ISEER rating improve efficiency by 10% as compared to conventional 5-Star Air Conditioners with 4.7 ISEER rating.

BENEFITS

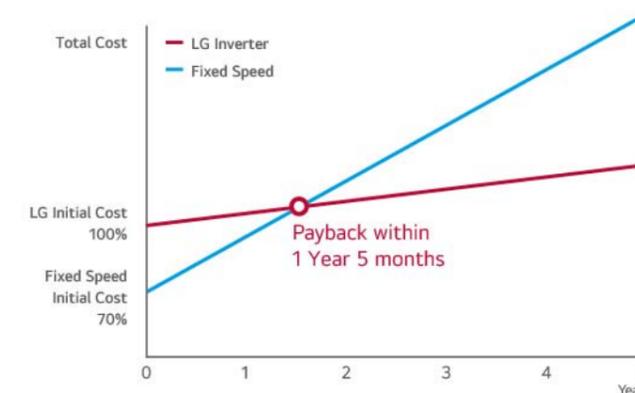
- Consumes up to 10% less energy with respect to normal 5 Star Inverter AC
- Super 5-Star comes with 5.2 ISEER Rating



LG Super 5-Star Inverter (1.5 T)

PAYBACK

Short Payback period and easy period check with LG PAYBACK App.



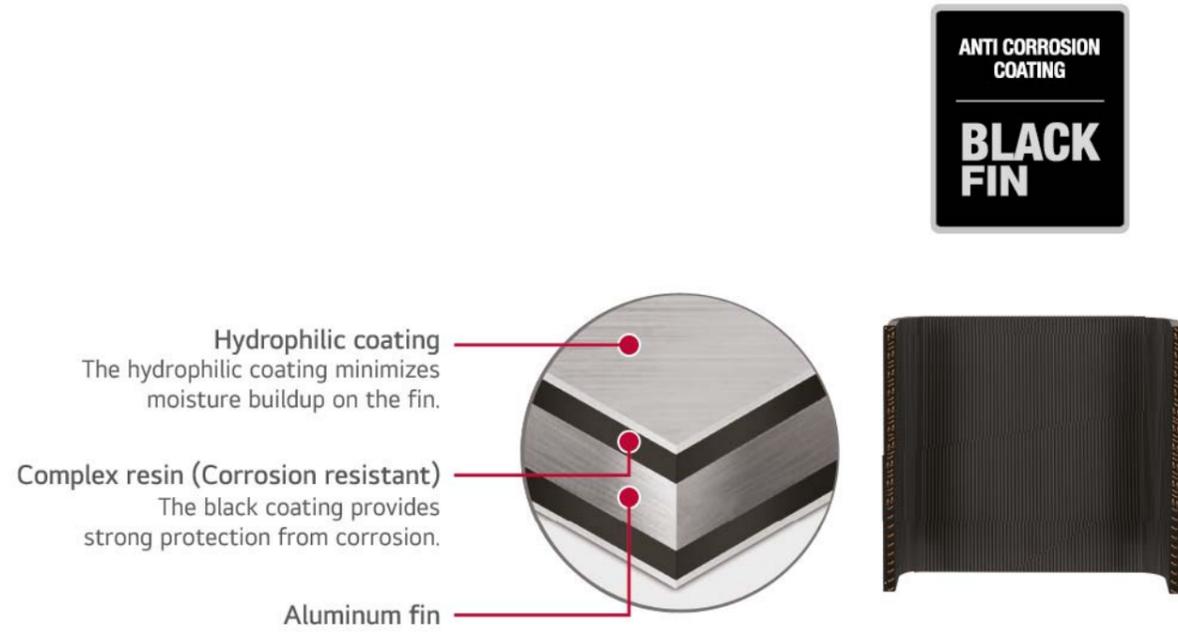
Capacity : 4.0 T Ceiling Mounted Cassette
 Operating time : 08:00-22:00
 Cooling partial load and power consumption calculated based on yearly weather data (Target indoor temperature : 23°C) India (Delhi)
 * This result can be different depending on actual environment.
 * This energy & electric cost saving datas are simulated result with 'LG Inverter payback' application.
 * Initial cost of each product is based on market SRP (INR).

Annual Energy Saving is: 51%
 Conventional On/Off: 3,812 kWh/year
 LG Inverter: 1,878 kWh/year
Investment Returns in: 1 Year 5 Month
 After that, get additional savings of...
 10,813 INR (2 Years), 32,092 INR (3 Years), 53,370 INR (4 Years)



To download our Payback app, search 'LG Inverter Payback' on Google Play Store or App Store.

BLACK FIN FOR CORROSION RESISTANCE



CORROSION RESISTANCE PROVEN BY CERTIFIED TESTS



LG Corrosion Resistance solution passed ISO accelerated corrosion test conducted by an independent test organization and the result has been certified by prestigious global certification organization, TÜV.



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

HI-GROOVED COPPER

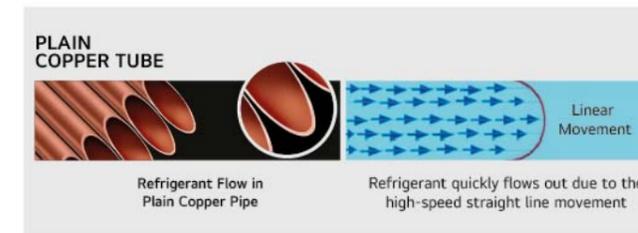


High grooved copper pipes serve dual benefits of better heat dissipation of refrigerant & increasing the durability of pipe.

BENEFITS

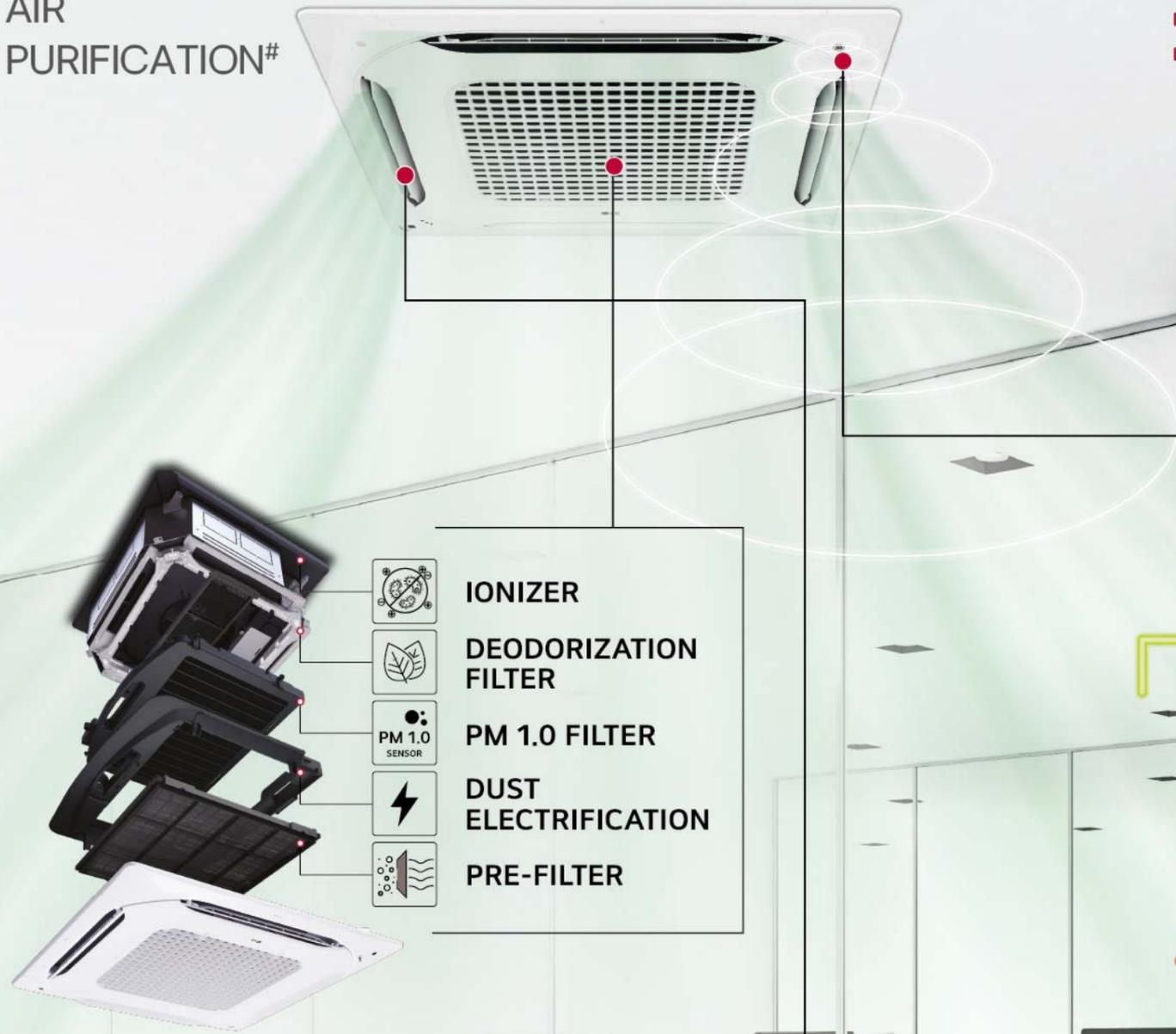
- Inner grooved structure enables the oscillatory movement for better heat dissipation as it increases travel time of refrigerant within pipes.
- Grooves also strengthens the overall pipe structure because of which they can withstand high pressure.
- More efficient heat transfer can withstand higher pressure and offers long-term durability.

	Plain	Grooved ☆☆☆	Hi-Grooved ☆☆☆☆☆
Groove Height	NA	0.1mm	0.18mm
Per Meter Weight	30g/m	47g/m	47g/m



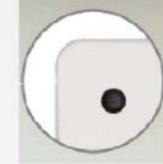
AIR PURIFICATION#

HUMAN DETECTION*



-  **IONIZER**
-  **DEODORIZATION FILTER**
-  **PM 1.0 FILTER**
-  **DUST ELECTRIFICATION**
-  **PRE-FILTER**

Energy saving & comfort cooling through human detection.



Human Detection Sensor (PTVSMA0)



Energy Saving



Comfort Air

On/Off Control

Temperature Control

Indirect Airflow

Direct Airflow

Real Time Air Quality Monitoring



Mobile device



Remote controller



Indoor unit smart indicator

Optional Feature with 5 steps of Filtration available in Models: PTAHTP0 & PTAHMPO
 # Optional Feature with 3 steps of Filtration available in Models PTAHTP1 & PTAHMP1

 SMART CONTROL

LG ThinQ™

Control your air conditioners using the smart internet devices on Android or iOS based smartphones.



Simple operation for various functions

- On / Off
- Mode Selection
- Current Temperature
- Set Temperature
- Vane Control
- Reservation
- Energy Monitoring
- Filter Management

※ Search "LG ThinQ™" on Google market or App store then download the app.
 ※ Wi-Fi modem (PWFMD200) is required by option.
 ※ In some countries, use of the google assistant system may be restricted.

MOBILE LG MV

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



INVERTER CASSETTE 1 WAY



REDDOT AWARD WINNING DESIGN ENHANCES LUXURY HOUSE INTERIOR

Compact and round shaped panel brings excellent fit to ceiling.

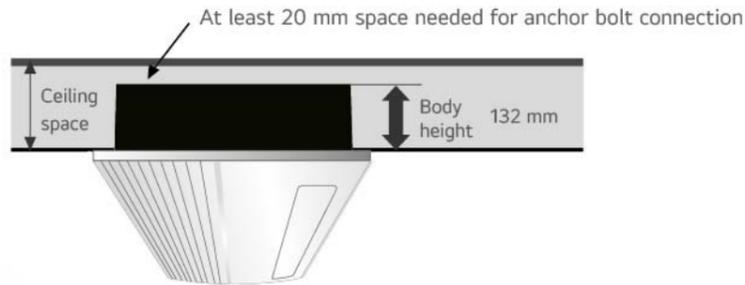


*2016 & 2022



SLIM & COMPACT INDOOR UNIT

Slim indoor unit provides flexibility of installation in the narrow ceiling space.



4 WAY AIR BLOW AUTO CONTROL

Auto Up / Down / Left / Right control provides even air distribution.



4 Way Air Blow

EVEN AIR DISTRIBUTION

4 WAY AIR BLOW CONTROL

COMFORT COOLING (DIRECT / INDIRECT WIND)

By selecting the wind direction, user can easily achieve the preferred cooling comfort.



SPECIFICATIONS

INVERTER 1 WAY CASSETTE



1 Way Cassette		Unit	1.0T	1.5T	2.0T	
Combination	Outdoor unit		ZTUQ12GULA1	ZTUQ18GTLA2	ZTUQ24GTLA1	
	Indoor unit		ZTNQ12GULA1	ZTNQ18GTLA2	ZTNQ24GTLA1	
Capacity	Cooling	Min.-Rated-Max.	kW	1.37 - 3.60 - 4.20	1.58 - 5.2 - 6.0	2.21 - 7.10 - 7.7
Power Input	Cooling	Rated	kW	1.20	1.55	2.45
EER / COP			W / W	3.00	3.35	2.9
ISEER				4.00	4.35	3.95
ISEER Grade				3★	3★	3★
Indoor Unit						
Model Name		Unit	ZTNQ12GULA1	ZTNQ18GTLA2	ZTNQ24GTLA1	
Power Supply		V, Ø, Hz	230, 1, 50			
Airflow Rate		m ³ /min	9 / 8 / 7	16/14/12	16/14/12	
		CFM	318 / 283 / 247	565 / 494 / 424	565 / 494 / 424	
Fan Motor		Type	BLDC			
Sound Pressure Level		H / M / L	dB(A)	37 / 36 / 33	46/43/39	46/43/39
Dimensions	Net	W x H x D	mm	860 x 132 x 450	1180 x 132 x 450	1180 x 132 x 450
Weight	Net		kg	11.3	14.2	14.2
Piping Connections	Liquid Side		mm	Ø 6.35(1/4)	Ø 6.35(1/4)	Ø 9.52(3/8)
	Gas Side		mm	Ø 9.52(3/8)	Ø 12.7(1/2)	Ø 15.88(5/8)
	Drain Pipe	O.D. / I.D.	mm	Ø 32 / 25	Ø 32 / 25	Ø 32 / 25
Power and Communication Cable (included Earth)		No. x mm ² (AWG)		4C x 1.0(18)	4C x 1.0(18)	4C x 1.0(18)
Decoration Panel 1	Model Name			PT-UAHW0	PT-TAHW0	
	Color			White		
	Dimensions	W x H x D	mm	1,100 x 34 x 500	1,420 x 34 x 500	
	Net Weight		kg	3.3	4.5	
Outdoor Unit						
Model Name		Unit	ZTUQ12GULA1	ZTUQ18GTLA2	ZTUQ24GTLA1	
Power Supply		V, Ø, Hz	230, 1, 50			
Compressor	Type		Twin Rotary			
Heat Exchanger	Type (Coating)		Fin & Tube Type (Hydrophilic + Black Fin)			
Refrigerant	Type		R32			
	Control		Electronic Expansion Valve			
Fan Motor	Type		BLDC			
Sound Pressure Level	Cooling	Rated	dB(A)	50	54	54
Wiring Connections	Power Supply Cable (included Earth)		No. x mm ² (AWG)	3C x 1.5(14)	3C x 1.5(14)	3C x 2.5(12)
Circuit Breaker			A	16	16	25
Casing Color				Warm Gray		
Dimensions	Net	W x H x D	mm	717 X 483 X 230	770 x 545 x 288	870 x 650 x 330
Net Weight			kg	24.9	31.5	41.5
Piping Connections	Liquid	Outer Dia.	mm	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
Piping Length			m	5 (16.4) / 30 (98.4)	5 (16.4) / 30 (98.4)	5 (16.4) / 50 (164.0)
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.	m	15 (49.21)	20(65.6)	30(98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.	°C DB	-5 - 52		

Note: Performances are based on the following condition:

• Cooling: Indoor Ambient Temp. 27°CDB/19°CWB, Outdoor Ambient Temp. 35°CDB/24°CWB • Interconnected Pipe Length is 7.5mm and difference of Elevation (Outdoor-Indoor Unit) in 0m.

*To use function, correct combination of panel and accessory need to be purchased (Refer to panel info)

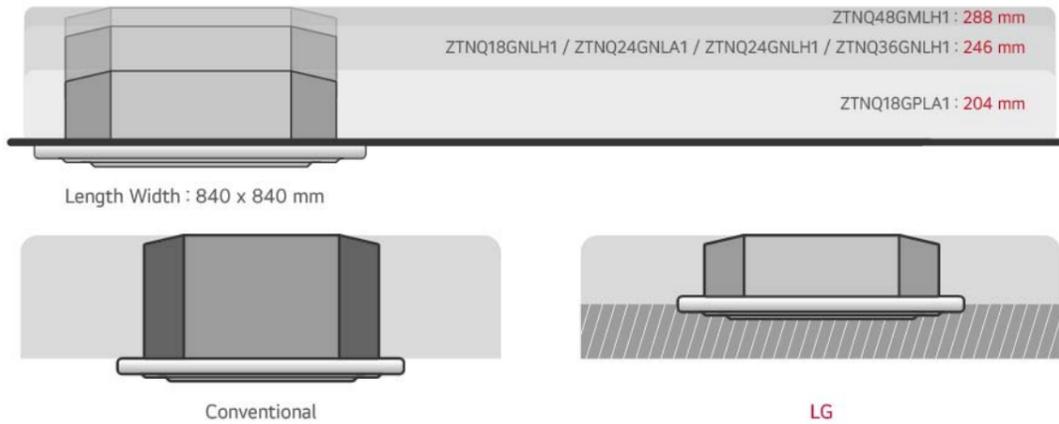
Accessories	12k TU Chassis	18k TT Chassis	24k TT Chassis
1 Way CST Panel for Air Purification kit (Glossy finish)	PT-UPHGO	PT-TPHGO	
Dimensions	1,160 x 34 x 500		
Human Detection kit	-		
Air Purification Kit*	PTAHTPO		
Air Purification Kit (SIMPLE)*	PTAHTP1		
Wi-Fi Module	PWFMD200		
PI 485	PMNFP14A1		
Ionizer*	PAS-NAUDR2		

*Air Purification is optional feature * SIMPLE Air Purification kit (PTAHTP1) comes with 3 steps of Filtration. * Ionizer : Optional Feature can be used with Air Purification Kit (SIMPLE) model (PTAHTP1)

INVERTER CASSETTE 4 WAY

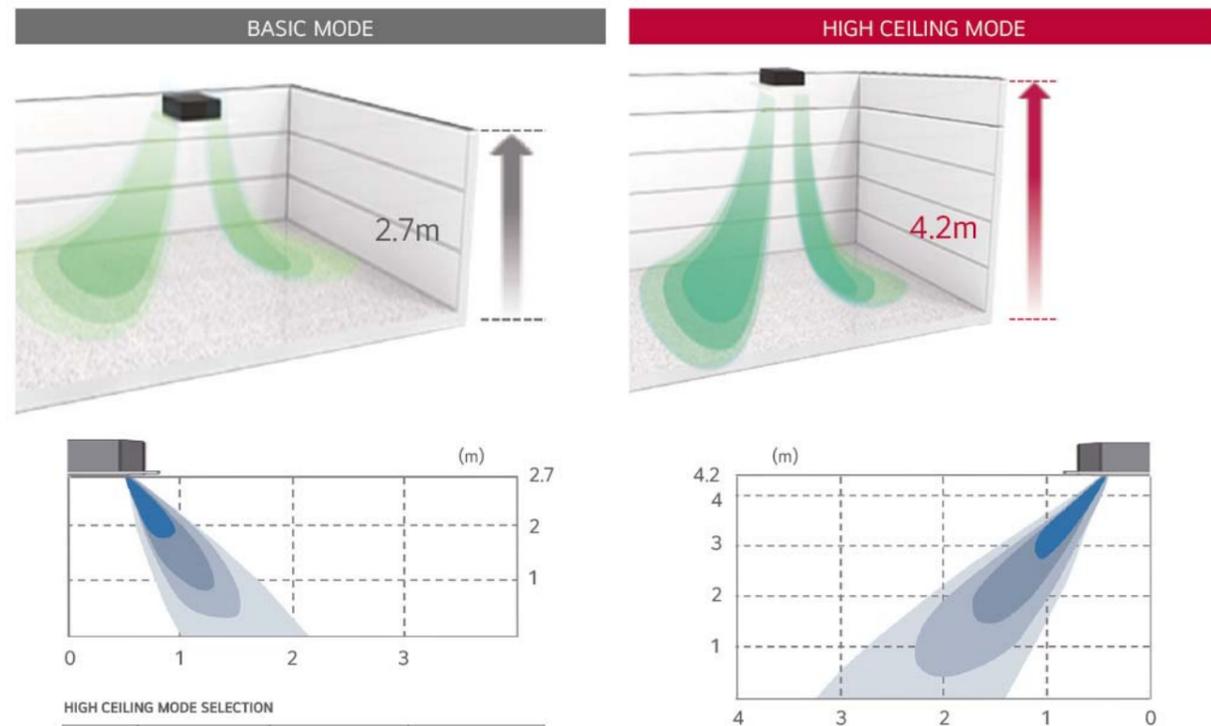
COMPACT SIZE

Slim & compact design not only saves space but also reduces installation costs. It's designed to suit most of building designs and can easily fit into various spaces.



HIGH CEILING MODE

Airflow in a space with a 4.2 m ceiling height is possible with this indoor unit. Further, airflow can be strengthened by adjusting the fan speed.



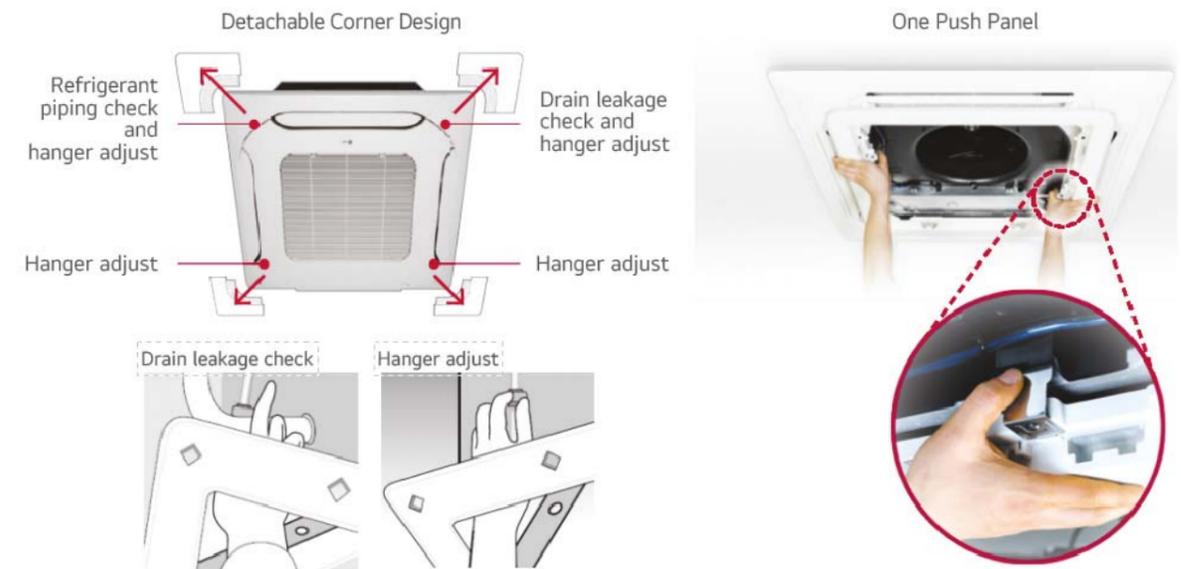
HIGH CEILING MODE SELECTION

Capacity	≤ 9.0 kW	> 9.0 kW	Mode Selection
Ceiling Height	H ≤ 2.3m	H ≤ 2.3m	Low Ceiling
	2.3m < H ≤ 2.7m	2.7m < H ≤ 3.2m	Standard
	2.7m < H ≤ 3.1m	3.2m < H ≤ 3.6m	High Ceiling
	3.1m < H ≤ 3.6m	3.6m < H ≤ 4.2m	Super High Ceiling

INVERTER CASSETTE 4 WAY

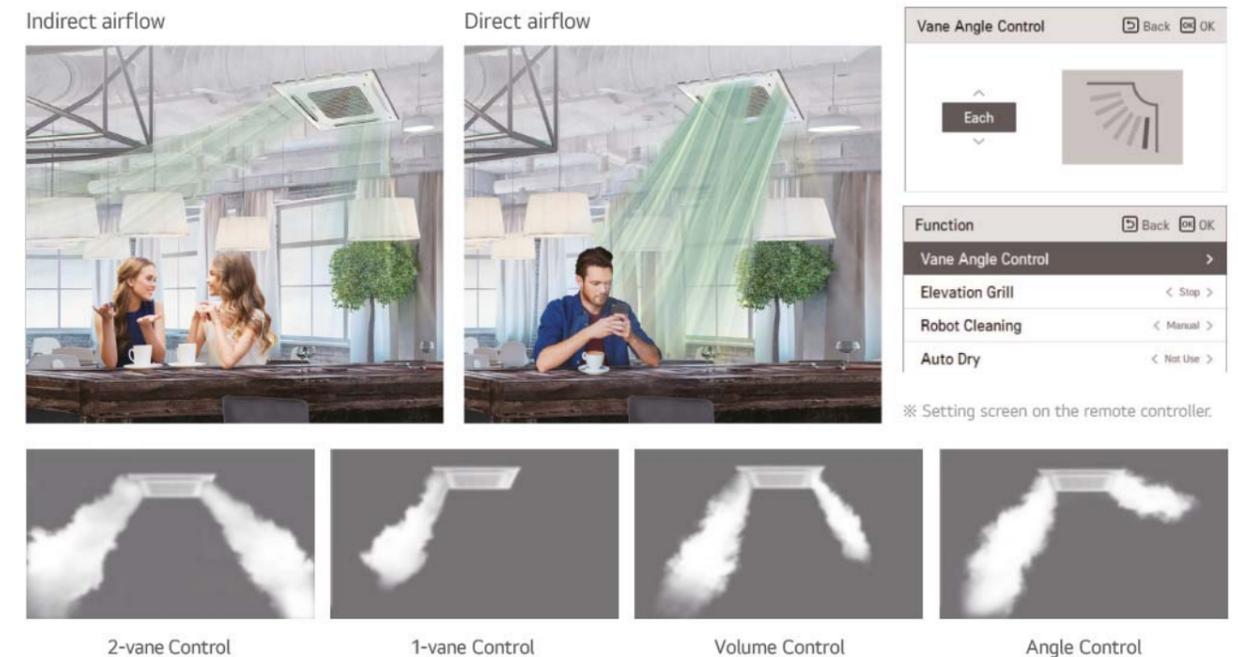
CONVENIENT PANEL INSTALLATION

The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe. And it is easy to install the panel to the body simply by using our new button-type design.



INDEPENDENT CONTROL OF AIRFLOW

The independent vane operation feature uses separate 4 motors, making it possible to control all four vanes independently. The independent control provides optimal comfort for each user. It is capable of handling inclination angles between 20° ~ 70°.



※ Setting screen on the remote controller.

SPECIFICATIONS

INVERTER CASSETTE 4 WAY



4 Way Cassette				Unit	1.5T	1.5T (High Efficiency)	2.0T
Combination	Outdoor unit				ZTUQ18GPLA1	ZTUQ18GNLH2	ZTUQ24GNLA2
	Indoor unit				ZTNQ18GPLA1	ZTNQ18GNLH2	ZTNQ24GNLA2
Rated Capacity	Cooling	Min.-Rated-Max.	kW		1.55 - 5.15 - 5.46	1.58 - 5.27 - 6.0	2.02 - 6.75 - 7.08
Power Input	Cooling	Rated	kW		1.81	1.29	2.05
	EER / COP		W / W		2.85	4.09	3.29
ISEER					3.95	5.25	4.35
ISEER Grade					3★	5★	3★
Indoor Unit							
Model Name				Unit	ZTNQ18GPLA1	ZTNQ18GNLH2	ZTNQ24GNLA2
Power Supply				V, Ø, Hz	230, 1, 50		
Airflow Rate	H / M / L			m3/min	17.0 / 15.0 / 13.0	21.0 / 18.5 / 15.0	21.0 / 18.5 / 15.0
				CFM	600 / 530 / 459	742 / 653 / 530	742 / 653 / 530
Fan Motor	Type			BLDC			
Sound Pressure Level	Cooling	H / M / L		dB(A)	40 / 36 / 33	40 / 35 / 29	40 / 35 / 29
Dimensions	Body			W x H x D	840 x 204 x 840		
Weight	Body			kg	20.5	23.5	23.6
	Liquid Side			mm	Ø 6.35 (1/4)		
Piping Connections	Gas Side			mm	Ø 12.7 (1/2)		
	Drain Pipe			(O.D. / I.D.)	Ø 32.0 / 25.0		
	Power and Communication Cable (included Earth)			No. x mm2 (AWG)	4C x 1.0 (18)		
Decoration Panel	Model Name			PT-MAGW0			
	Casing Colour			Morning Fog			
	Dimensions			W x H x D	950 x 35 x 950		
	Net weight			kg	5.0		
Outdoor Unit							
Model Name				Unit	ZTUQ18GPLA1	ZTUQ18GNLH2	ZTUQ24GNLA2
Power Supply				V, Ø, Hz	230, 1, 50		
Compressor	Type			Twin Rotary			
Heat Exchanger	Type (Coating)			Fin & Tube Type (Hydrophilic + Black Fin)			
Refrigerant	Type			R32			
	Control			Electronic Expansion Valve			
Fan Motor	Type			BLDC			
Sound Pressure Level	Cooling	Rated		dB(A)	50	54	54
Wiring Connections	Power Supply Cable (included Earth)			No. x mm2 (AWG)	3C x 1.5 (16)		
Circuit Breaker				A	16		
Casing Color				Warm Gray			
Dimensions	W x H x D			mm	717 x 483 x 230	770 x 545 x 288	770 x 545 x 288
Net Weight				kg	24.9	31.5	31.7
	Piping Connections	Liquid	Outer Dia.		mm	Ø 6.35 (1/4)	
Gas		Outer Dia.		mm	Ø 12.7 (1/2)		
Piping Length	Min. / Max.		m	5 (16.4) / 30 (98.4)			
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.		m	15(49.2)		
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.		°C DB	-5 - 52		

Accessories*			
Panel			
Dimension	950 x 35 x 950		
Human Detection Kit	PTVSMA0		
Air Purification Kit	PTAHMP0, PTAHMP1*		
Wi-Fi Module	PFWMDD200		
PI485	PMNFP14A1		
Ionizer*	PAS-NATDR2		

* Ionizer : Optional Feature can be used with Air Purification Kit model - PTAHMP1
 * Air purification is an optional Feature & comes with 3 Step of Filtration (PTAHMP1 model) & 5 steps of Air filtration (PTAHMP0 model)

SPECIFICATIONS

INVERTER CASSETTE 4 WAY



4 Way Cassette				Unit	2.0T (High Efficiency)	3.0T (High Efficiency)	4.0T (High Efficiency)
Combination	Outdoor unit				ZTUQ24GNLH1	ZTUQ36GNLH1	ZTUQ48GMLH2
	Indoor unit				ZTNQ24GNLH1	ZTNQ36GNLH1	ZTNQ48GMLH2
Rated Capacity	Cooling	Min.-Rated-Max.	kW		2.11 - 7.05 - 7.74	3.16 - 10.55 - 11.08	4.2 - 14.07 - 14.7
Power Input	Cooling	Rated	kW		1.73	3.45	4.8
	EER / COP		W / W		4.08	3.06	2.93
ISEER					5.25	4.20	4.20
ISEER Grade					5★	5★	5★
Indoor Unit							
Model Name				Unit	ZTNQ24GNLH1	ZTNQ36GNLH1	ZTNQ48GMLH2
Power Supply				V, Ø, Hz	230, 1, 50		
Airflow Rate	H / M / L			m3/min	21.0 / 18.5 / 15.0	25.0 / 22.0 / 19.0	27.0 / 23.0 / 19.0
				CFM	742 / 653 / 530	883 / 777 / 671	953 / 812 / 671
Fan Motor	Type			BLDC			
Sound Pressure Level	Cooling	H / M / L		dB(A)	40 / 35 / 29	45 / 41 / 37	46 / 42 / 37
Dimensions	Body			W x H x D	840 x 246 x 840		
Weight	Body			kg	23.6	23.6	26.1
	Liquid Side			mm	Ø 9.52 (3/8)		
Piping Connections	Gas Side			mm	Ø 15.88 (5/8)		
	Drain Pipe			(O.D. / I.D.)	Ø 32.0 / 25.0		
	Power and Communication Cable (included Earth)			No. x mm2 (AWG)	4C x 1.0 (18)		
Decoration Panel	Model Name			PT-MAGW0			
	Casing Colour			Morning Fog			
	Dimensions			W x H x D	950 x 35 x 950		
	Net weight			kg	5.0		
Outdoor Unit							
Model Name				Unit	ZTUQ24GNLH1	ZTUQ36GNLH1	ZTUQ48GMLH2
Power Supply				V, Ø, Hz	230, 1, 50		
Compressor	Type			Twin Rotary			
Heat Exchanger	Type (Coating)			Fin & Tube Type (Hydrophilic + Black Fin)			
Refrigerant	Type			R32			
	Control			Electronic Expansion Valve			
Fan Motor	Type			BLDC			
Sound Pressure Level	Cooling	Rated		dB(A)	54	54	57
Wiring Connections	Power Supply Cable (included Earth)			No. x mm2 (AWG)	3C x 2.5 (14)		
Circuit Breaker				A	25		
Casing Colour				Warm Gray			
Dimensions	W x H x D			mm	870 x 650 x 330	870 x 650 x 330	950 x 834 x 330
Net Weight				kg	41.5	41.5	61.5
	Piping Connections	Liquid	Outer Dia.		mm	Ø 9.52 (3/8)	
Gas		Outer Dia.		mm	Ø 15.88 (5/8)		
Piping Length	Min. / Max.		m	5 (16.4) / 50 (164.0)			
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.		m	30 (98.4)		
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.		°C DB	-5 - 52		

Note:
 Performances are based on the following condition:
 • Cooling: Indoor Ambient Temp. 27°C DB/19°C CWB, Outdoor Ambient Temp. 35°C DB/24°C CWB
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.
 • To use function, correct combination of panel and accessory need to be purchased (Refer to panel info)

INVERTER LOW STATIC DUCT



MINIMIZED HEIGHT

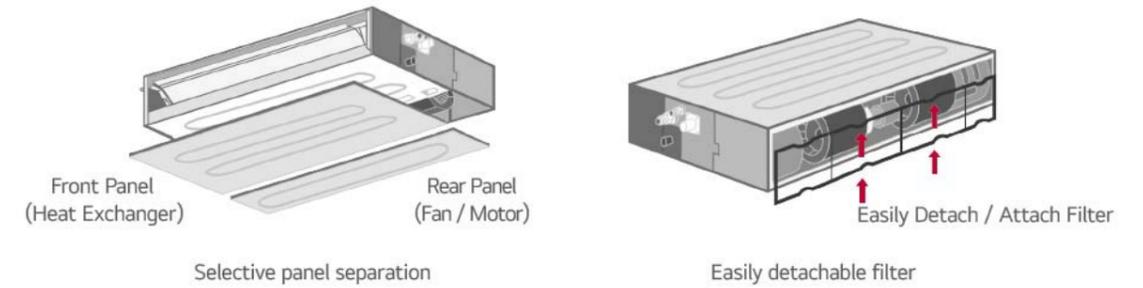
New low-static ducts provide ideal solution for installation in limited space.



INVERTER LOW STATIC DUCT

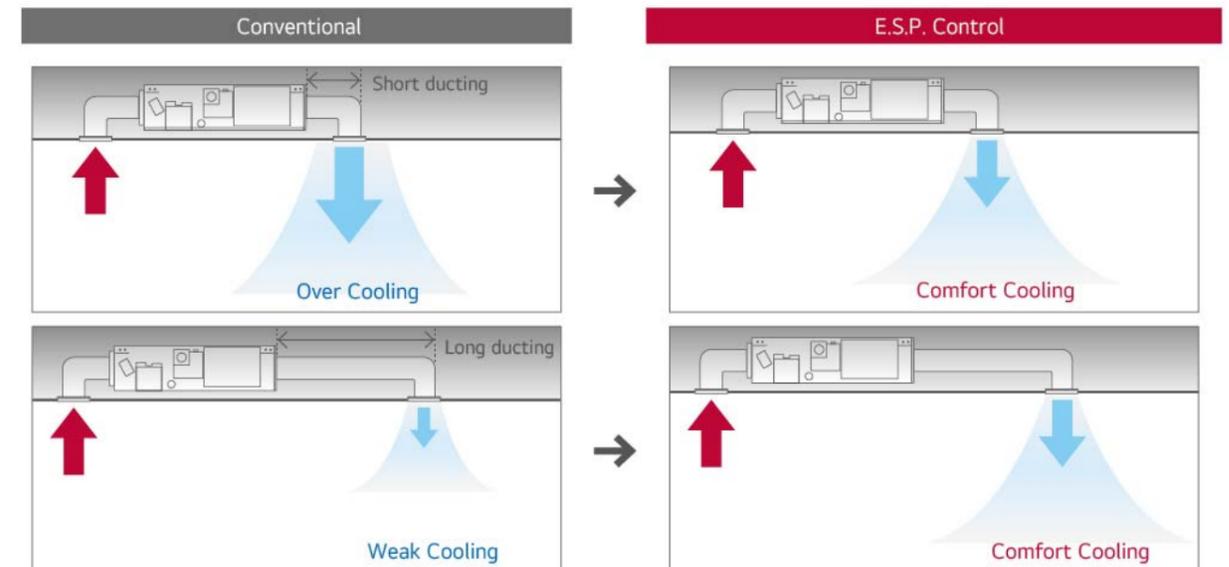
EASY SERVICE & MAINTENANCE

Disassembly of the entire panel is no longer required as the new panel is divided into two parts. One part is for heat exchanger inspection and the other one for fan/motor inspection. The filter can be easily detached and re-attached even in limited spaces.



E.S.P. (EXTERNAL STATIC PRESSURE) CONTROL

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



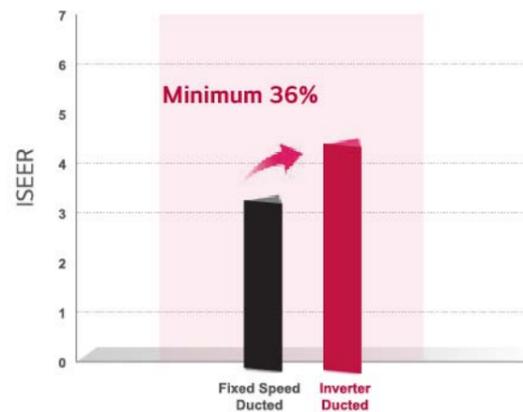
INVERTER HIGH STATIC DUCT



HIGH ENERGY EFFICIENCY

The new inverter ducted units perform at much higher energy efficiency than conventional ducted splits. It is because they comprise of Inverter drives, BLDC motors, Electronic expansion valves and other efficiency components.

A comparison of the 2 systems is given below :



* ISEER value is simulated data as per BEE ISEER Regulation

INVERTER HIGH STATIC DUCT

HIGH ENERGY EFFICIENCY AT PART LOADS

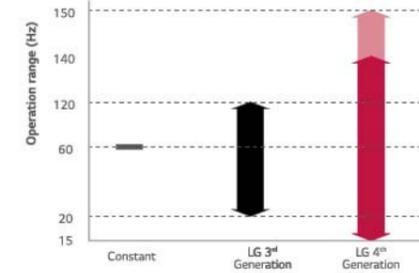
Low load operation efficiency is improved by concentration coil and motor and 6 by-pass valves.

6 by-pass valves

- Compressor reliability is maximised with 6 by-pass valves
- Prevents compressor damage due to excessively compressed refrigerant more efficient than 4 by-pass valves

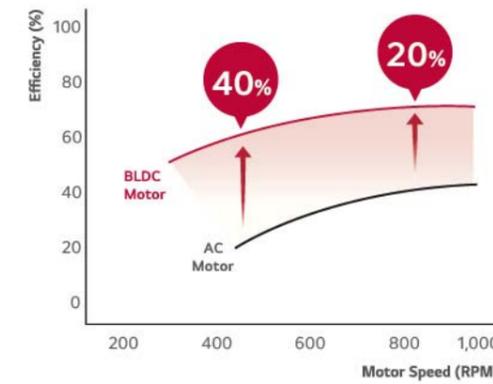
Extended Compressor Speed 150Hz

- Rapid operation response
- Capable of reaching required temperature quickly
- Increases part load efficiency



HIGHER EFFICIENCY WITH BRUSHLESS DC (BLDC) MOTORS

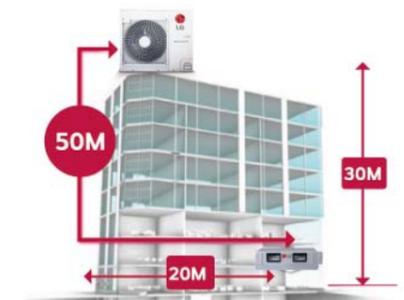
BLDC motors are more efficient than conventional AC motors used by others. BLDC motors are about 40% more efficient at lower speeds and about 20% more efficient at higher speeds.



LONG DISTANCE PIPING

The inverter ducted units are designed for a 30 m vertical height and a total refrigerant piping distance of 50 m between the indoor and outdoor units.

The units are, thus, suitable for tall and glass facade buildings.



SPECIFICATIONS

INVERTER LOW STATIC DUCT



* Wireless Remote Controller Included

U18 A Chassis

U24 A Chassis

Low Static Duct				Unit		1.5 T		2.0 T	
Combination	Outdoor unit				ZBUQ18GL5A2		ZBUQ24GL6A1		
	Indoor unit				ZBNQ18GL5A2		ZBNQ24GL6A1		
Rated Capacity	Cooling	Min. - Rated - Max.		kW		1.58 - 5.27 - 6.00		2.11 - 7.05 - 7.74	
Power Input	Cooling	Rated		kW		1.70		2.15	
EER / COP				W / W		3.1		3.28	
Indoor Unit				Model Name		ZBNQ18GL5A2		ZBNQ24GL6A1	
Power Supply				V, Ø, Hz		230, 1, 50			
Airflow Rate	H / M / L		m³/min		15.0 / 12.5 / 10.0		20.0 / 16.0 / 12.0		
			CFM		530 / 441 / 353		706 / 565 / 424		
Fan Motor	Type					BLDC			
Sound Pressure Level	Cooling	H / M / L	dB(A)		36 / 34 / 31		39 / 35 / 32		
Exterior	Colour					Steel Gray			
Dimensions	W x H x D		mm		900 x 190 x 460		1,100 x 190 x 460		
Net Weight			kg		19.7		22.0		
Shipping Weight			kg		23.6		26.2		
Piping Connections	Liquid Side			mm		Ø 6.35 (1/4)		Ø 9.52 (3/8)	
	Gas Side			mm		Ø 12.7 (1/2)		Ø 15.88 (5/8)	
	Drain Pipe	O.D. / I.D.	mm		Ø 32.0 / 25.0		Ø 32.0 / 25.0		
Power and Communication Cable (included Earth)			No. x mm2 (AWG)		4C x 1.0 (18)		4C x 1.0 (18)		
Outdoor Unit				Model Name		ZBUQ18GL5A2		ZBUQ24GL6A1	
Power Supply				V, Ø, Hz		230, 1, 50			
Compressor	Type					Twin Rotary			
Heat Exchanger	Type (Coating)					Fin & Tube Type (Hydrophilic + Black Fin)			
Refrigerant	Type					R32			
	Control					Electronic Expansion Valve			
Fan Motor	Type					BLDC			
Sound Pressure Level	Rated			dB(A)		54		54	
Wiring Connections	Power Supply Cable (included Earth)			No. x mm2 (AWG)		3C x 1.5 (14)		3C x 2.5 (12)	
Circuit Breaker			A		16		25		
Casing Colour							Warm Gray		
Dimensions	W x H x D		mm		770 x 545 x 288		870 x 650 x 330		
Net Weight			kg		31.5 (69.4)		41.5 (91.4)		
Piping Connections	Liquid	Outer Dia.	mm		Ø 6.35 (1/4)		Ø 9.52 (3/8)		
	Gas	Outer Dia.	mm		Ø 12.7 (1/2)		Ø 15.88 (5/8)		
Piping Length	Min. / Max.		m		5 (16.4) / 30 (98.4)		5 (16.4) / 50 (164.0)		
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.		m		20 (65.6)		30 (98.4)	
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.	°C DB		-5 - 52				
Accessories*				Wi-Fi Module		PWFMDD200		PWFMDD200	
				PI485		PMNFP14A1		PMNFP14A1	

Note:
Performances are based on the following condition:
 - Cooling: Indoor Ambient Temp. 27° CDB/19°CWB, Outdoor Ambient Temp. 35°CDB/24°CWB
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.

SPECIFICATIONS

INVERTER HIGH STATIC DUCT



* Wired Remote Controller Included

U4 Chassis

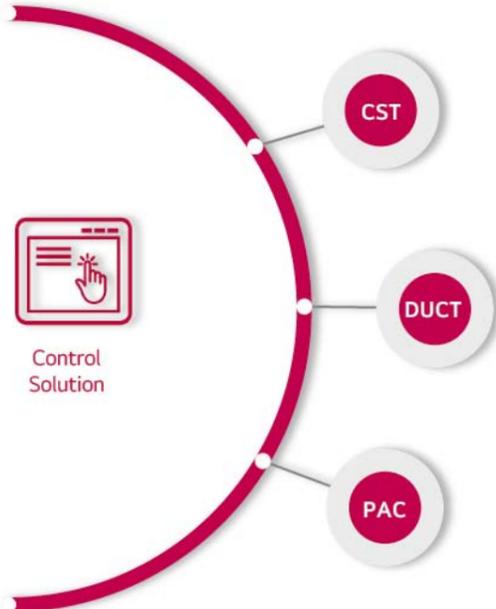
U3 Chassis

U7 Chassis

High Static Duct				Unit		5.5 T		8.5 T		11.0 T*	
Combination	Outdoor unit				ZBUQ66LRA0		ZBUQ102L8A0		JBUQ132L8A0		
	Indoor unit				ZBNQ66LRA0		ZBNQ102L8A0		JBNQ132L8A0		
Rated Capacity	Cooling	Min. - Rated - Max.		kW		5.28 - 17.58 - 19.34		8.44 - 28.13 - 30.94		10.54 - 35.16 - 38.67	
Power Input	Cooling	Rated		kW		6.7		11		10	
EER/COP				W / W		2.62		2.56		3.52	
ISEER						3.76		3.73		3.89	
Indoor Unit				Model Name		ZBNQ66LRA0		ZBNQ102L8A0		JBNQ132L8A0	
Power Supply				V, Ø, Hz		230, 1, 50					
Airflow Rate	H / M / L		m³/min		58 / 52 / 46		90 / 78 / 65		113 / 100 / 89		
			CFM		2048 / 1836 / 1625		3178 / 2755 / 2295		3991 / 3531 / 3143		
Fan Motor	Type					BLDC					
Sound Pressure Level	Cooling	H / M / L	dB(A)		45 / 43 / 41		52 / 50 / 48		49 / 47 / 45		
Dimensions	Body	W x H x D		mm		1,230 x 380 x 590		1,562 x 460 x 688		1,562 x 460 x 688	
Net Weight	Body			kg		48		81		89	
Piping Connections	Liquid			mm		Ø 9.52 (3/8)		Ø 9.52 (3/8)		Ø 12.7 (1/2)	
	Gas			mm		Ø 19.05 (3/4)		Ø 22.2 (7/8)		Ø 22.2 (7/8)	
	Drain (O.D. / I.D.)			mm		Ø 25.4 / 19.4		Ø 25.4 / 21.0		Ø 25.4 / 21.0	
Power and Communication Cable (included Earth)			No. x mm2 (AWG)		4C x 1.0 (18)		4C x 1.0 (18)		4C x 1.0 (18)		
Outdoor Unit				Model Name		ZBUQ66LRA0		ZBUQ102L8A0		JBUQ132L8A0	
Power Supply				V, Ø, Hz		415, 3, 50					
Compressor	Type					Twin Rotary		Twin Rotary		Scroll	
Heat Exchanger	Type (Coating)					R32		R32		R410A	
Refrigerant	Type					R32		R32		R410A	
	Control					Electronic Expansion Valve		Electronic Expansion Valve		Electronic Expansion Valve	
Fan Motor	Type					BLDC		BLDC		BLDC	
Sound Pressure Level	Rated			dB(A)		55		66		63	
Wiring Connections	Power Supply Cable (included Earth)			No. x mm2 (AWG)		5C x 4.0 (12)		5C x 6.0 (10)		5C x 6.0 (8)	
Circuit Breaker			A		20		40		40		
Casing Colour							Warm Gray		Warm Gray		
Dimensions	W x H x D		mm		950 x 834 x 330		950 x 1,380 x 330		1,090 x 1,625 x 380		
Net Weight			kg		76		100		150		
Piping Connections	Liquid	Outer Dia.	mm		Ø 9.52 (3/8)		Ø 9.52 (3/8)		Ø 12.7 (1/2)		
	Gas	Outer Dia.	mm		Ø 19.05 (3/4)		Ø 22.2 (7/8)		Ø 22.2 (7/8)		
Piping Length	Max.		m		50 (164.0)		50 (164.0)		50 (164.0)		
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.		m		30 (98.4)		30 (98.4)		30 (98.4)	
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.	°C DB		-5 - 53		-5 - 53		-5 - 53		
Accessories*				Wi-Fi Module		PWFMDD200		PWFMDD200		PWFMDD200	
				PI485		PMNFP14A1		PMNFP14A1		PMNFP14A1	

Note:
Performances are based on the following condition:
 - Cooling: Indoor Ambient Temp. 27° CDB/19°CWB, Outdoor Ambient Temp. 35°CDB/24°CWB
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.
 - *R32 available in all models except 11T Duct

CONTROL SOLUTION



CENTRAL CONTROL SOLUTION

AC Ez Touch



PACEZA000

- 5" Touch controller
- PI485GW required
- Individual controller lock
- Yearly schedule
- Max 64 indoor unit

INDIVIDUAL CONTROLLER

Standard III



PREMTB101

- 4.3" colour display with a modern design
- Soft touch button
- Yearly schedule

DRY CONTACT SOLUTION

Dry Contact



PDRYCB320

- 1 or 2 contact input
- With 3rd party thermostat
- With automation system

CONTROL SOLUTION

CONTROLLER LINE UP

Smart management for a variety of usages.

CENTRAL CONTROLLER	INDIVIDUAL CONTROLLER	
<p>ACP 5</p>  <p>PACP5A000</p> <ul style="list-style-type: none"> • Max. 256 unit • PC, Smartphone, Tablet control • Yearly schedule • BACnet / Modbus gateway • Individual controller lock • Operation log • Floor map view 	<p>Standard II</p>  <p>PREMTB001</p>	<p>Standard III</p>  <p>PREMTB101</p>
<p>AC Smart 5</p>  <p>PACS5A000</p> <ul style="list-style-type: none"> • Max. 128 unit • 10.2" touch • Yearly schedule • BACnet / Modbus gateway • Individual controller lock • Operation log • Floor map view 	<p>Premium</p>  <p>PREMTA000 (5" touch colour)</p>	<p>NEW</p>  <p>PREMTA201</p>
<p>AC Ez Touch</p>  <p>PACEZE000</p> <ul style="list-style-type: none"> • Max. 64 unit • 5" touch • Yearly schedule • Individual controller lock • Operation log 	<p>Wireless R/C</p>  <p>PWLSSB21H</p>	<p>Wi-Fi Modem</p>  <p>PWFMD200 (For Indoor Unit)</p>
<p>BMS PROTOCOL GATEWAY</p> <p>ACP LonWorks</p>  <p>PLNWKB000 (Indoor Unit -64)</p>	<p>ETC. ACCESSORIES</p> <p>Dry Contact</p>  <p>PDRYCB320 PDRYCB400</p>	<p>PI 485</p>  <p>PMNFP14A1 (For Outdoor Unit)</p>