







Energy Efficiency Black Fin Protection Air Purification

Human Detection

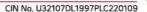




X www.x.com/lgIndia

To know more about LG, visit www.lg.com/in/business/air-solution For Corporate/Institutional enquiries,







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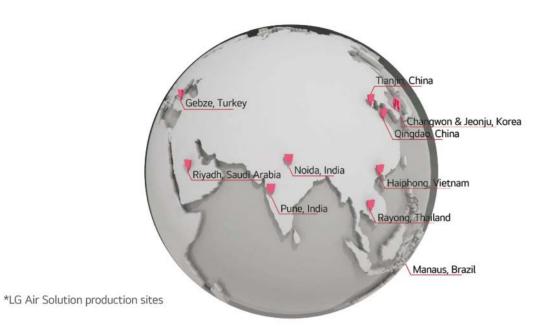




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LG AIR SOLUTION



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



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.







HUMAN DETECTION

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











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		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*			
		0	0:

*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 (Difforometane) It requires 20%



is an organic compound

less gas charge

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



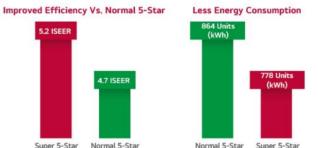
SUPER 5-STAR AIR CONDITIONERS



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

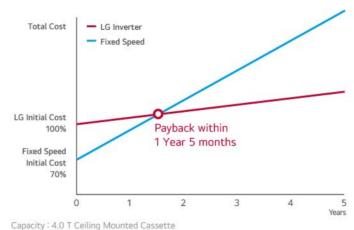
- Consumes up to 10% less energy with respect to normal 5 Star Inverter AC
- Super 5-Star comes with 5.2 ISEER Rating





PAYBACK

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



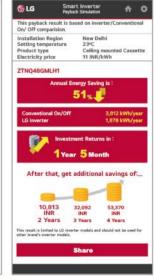
Operating time: 08:00~22:00

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).





9

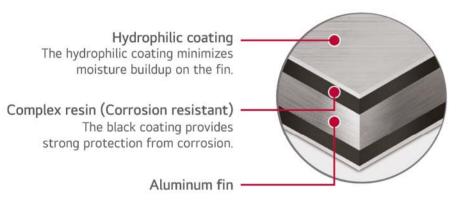


To download our Payback app, search 'LG Inverter Payback' on Google Play Store or App Store.



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, TUV.



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



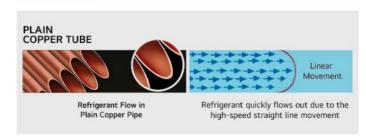


High grooved copper pipes serve dual benefits of better heat dissipation of refrigerant & increasing the durability of pipe.

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







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 / OffVane Control
- Mode Selection
- Reservation
- Current Temperature
- Energy Monitoring
- Set Temperature
- Filter Management

 $\mbox{\%}$ Search "LG ThinQ" on Google market or App store then download the app.

- * Wi-Fi modem (PWFMDD200) 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.





REDDOT AWARD WINNING DESIGN ENHANCES LUXURY HOUSE INTERIOR

Compact and round shaped panel brings excellent fit to ceiling.

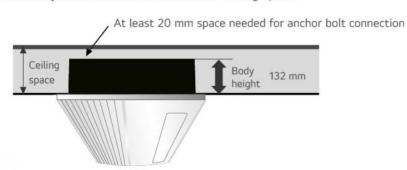




*2016 & 2022

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.







COMFORT COOLING (DIRECT / INDIRECT WIND)

4 Way Air Blow

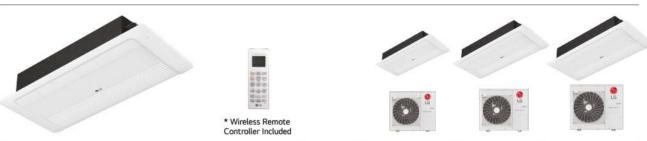
By selecting the wind direction, user can easily achieve the preferred cooling comfort.





SPECIFICATIONS

INVERTER 1 WAY CASSETTE



1 Way Cassette			Unit	1.0T	1.5T	2.0T	
Combination .	1,8	Outdoor unit		ZTUQ12GULA1	ZTUQ18GTLA2	ZTUQ24GTLA1	
Combination		Indoor unit		ZTNQ12GULA1	ZTNQ18GTLA2	ZTNQ24GTLA1	
Capacity	Cooling	MinRated-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			, A.Y		8	NE SEE	
м	odel Name		Unit	ZTNQ12GULA1	ZTNQ18GTLA2	ZTNQ24GTLA1	
Power Supply			V,Ø,Hz		230 ,1 , 50		
			m³/min	9/8/7	16/14/12	16/14/12	
Airflow Rate		H/M/L	CFM	318 / 283 / 247	565 / 494 / 424	565 / 494 / 424	
Fan Motor		Туре			BLDC		
Sound Pressure Level H / M / L			dB(A)	37 / 36 / 33	46/43/39	46/43/39	
Dimensions	Net	W×H×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	
	Liquid Side		mm	Ø 6.35(1/4)	Ø 6.35(1/4)	Ø 9.52(3/8)	
Piping Connections	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 (inclu	No. x mm2 (AWG)	4C x 1. 0(18)	4C x 1.0(18)	4C x 1.0(18)			
	Model Name	l Name		PT-UAHWO PT-TAHWO		AHWO	
	Color				White		
Decoration Panel 1	Dimensions			1,100 x 34 x 500 1,420 x 34 x 500		34 x 500	
	Net Weight			3.3 4.5			
Outdoor Unit			kg			0107	
м	odel Name		Unit	ZTUQ12GULA1	ZTUQ18GTLA2	ZTUQ24GTLA1	
Power Supply			V, Ø, Hz		230 ,1 , 50		
Compressor	Туре				Twin Rotary		
Heat Exchanger	Type (Coating)		-	Fin & T	ube Type (Hydrophilic + Bla	ack Fin)	
28/25 per 20/4/2003	Туре		10_00	R32			
Refrigerant	Control		(- C		Electronic Expansion Valve	F.	
Fan Motor	Туре				BLDC		
Sound Pressure Level	Cooling	Rated	dB(A)	50	54	54	
Wiring Connections		able (included Earth)	No. x mm2 (AWG)	3C x 1.5(14)	3C x 1.5(14)	3C x 2.5(12)	
Circuit Breaker	1		A	16	16	25	
Casing Color				93.65	Warm Gray	15.500	
Dimensions	Net	WxHxD	mm	717 X 483 X 230	770 x 545 x 288	870 x 65 0 x 330	
Net Weight	1	- 1.00 may 2.00 000 000 0	kg	24.9	31.5	41.5	
4424 BETTHERE TO LOCK TRANSPORTS	Liquid	Outer Dia.	mm	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	
Piping Connections	Gas	Outer Dia.	mm	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 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	
		2000/03 - 000000	200	727 827 778			
Maximum Height Difference	Outdoor Unit	Max.	m	15 (49.21)	20(65.6)	30(98.4)	

Note: Performances are based on the following condition:

• Cooling: Indoor Ambient Temp. 27° CDB/19° CDB, Outdoor Ambient Temp. 35° CDB/24° CWB • Interconneced 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 (Refef 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-T	PHG0		
Dimensions	1,160 x 34 x 500 1480 X 34 X 500				
Human Detection kit	· · · · · ·				
Air Purification Kit [^]	PTAHTP0				
Air Purification Kit (SIMPLE)*	PTAHTP1				
Wi-Fi Modem	PWFMDD200				
PI 485	PMNFP14A1				
lonizer*	PAS-NAUDR2				

*Air Purification is aptional feature * SMPLE Air Purification kit (PTAHTPI) comes with 3 steps of Filteration. * lonizer: Optional Feature can be used with Air Purification Kit (SIMPLE) model (PTAHTPI)

NOTES



STYLISH DESIGN PANEL

New 4 way cassette panel has a unibody shape that perfectly matches with the ceiling.

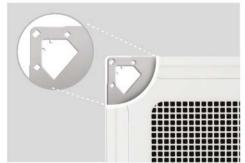
Interior fit



Lineless surface



Detachable corner



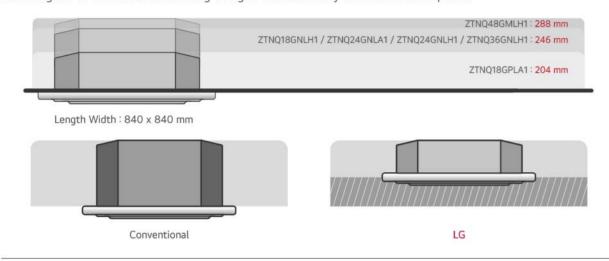


*Year 2016 & 2022 *T&C

INVERTER CASSETTE 4 WAY

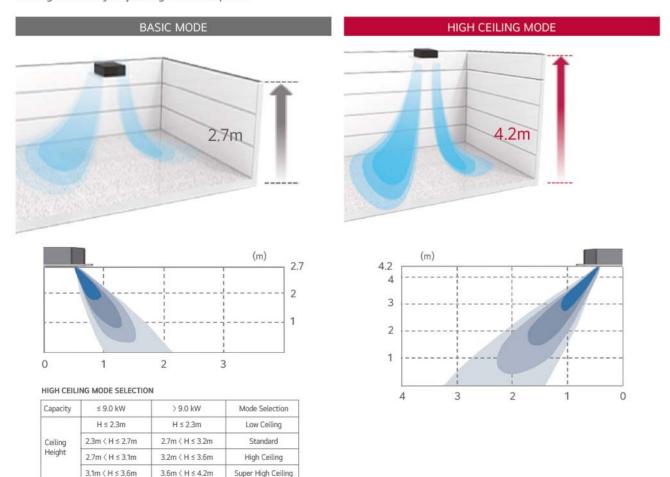
COMPACT SIZE

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

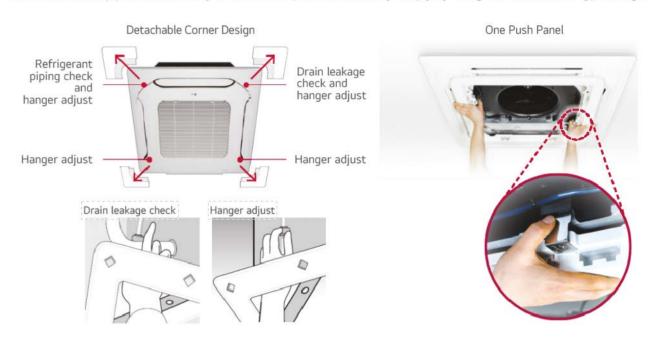
Airflow in a space with a 4.2 m ceiling height is possible with this indoor unit. Further, airflow can be strengthened by adjusting the fan speed.



INVERTER CASSETTE 4 WAY

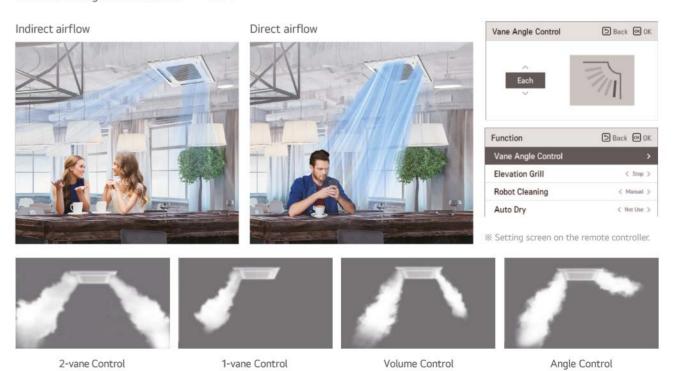
CONVENIENT PANEL INSTALLATION

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 $20^{\circ} \sim 70^{\circ}$.



LG SMART INVERTER SINGLE CAC LG SMART INVERTER SINGLE CAC

SPECIFICATIONS

INVERTER CASSETTE 4 WAY



		Controller	neidded				
4 Way Cassette	Ass		Unit	1.5T	1.5T (High Efficiency)	2.0T	
5 80 8		Outdoor unit		ZTUQ18GPLA1	ZTUQ18GNLH2	ZTUQ24GNLA2	
Combination		Indoor unit		ZTNQ18GPLA1	ZTNQ18GNLH2	ZTNQ24GNLA2	
Rated Capacity	Cooling	MinRated-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	10	•	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	
		0.300,000,000	CFM	600 / 530 / 459	742 / 653 / 530	742 / 653 / 530	
Fan Motor	Туре				BLDC		
Sound Pressure Level	Cooling	H/M/L	dB(A)	40 / 36 / 33	40 / 35 / 29	40 / 35 / 29	
Dimensions	Body	WxHxD	mm	840 x 204 x 840	840 x 246 x 840	840 x 246 x 840	
Weight	Body		kg	20.5	23.5	23.6	
	Liquid Side		mm	Ø 6,35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	
Piping Connections	Gas Side	-te	mm	Ø 12.7 (1/2)	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	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)	4C x 1.0 (18)	
	Model Name				PT-MAGW0		
200000000000000000000000000000000000000	Casing Colour			Morning Fog			
Decoration Panel	Dimensions	WxHxD	mm		950 x 35 x 950		
	Net weight		kg	5.0			
Outdoor Unit			10 to				
	Model Name		Unit	ZTUQ18GPLA1	ZTUQ18GNLH2	ZTUQ24GNLA2	
Power Supply	62		V, Ø, Hz		230 ,1 , 50		
Compressor	Туре				Twin Rotary		
Heat Exchanger	Type (Coating)		15	Fin & Tube Type (Hydrophilic + Black Fin)			
	Туре				R32		
Refrigerant	Control		-		Electronic Expansion Valve		
Fan Motor	Туре		20		BLDC	25	
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)	3C x 1.5 (16)	3C x 1.5 (16)	
Circuit Breaker			Α	16	16	16	
Casing Color			-		Warm Gray		
Dimensions		WxHxD	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	
	Liquid	Outer Dia.	mm	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	
Piping Connections	Gas	Outer Dia.	mm	Ø 12.7 (1/2)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	
Piping Length	-th	Min. / Max.	m	5 (16.4) / 30 (98.4)	5 (16.4) / 30 (98.4)	5 (16.4) / 30 (98.4)	
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.	m	15(49.2)	20 (65.6)	20 (65.6)	
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	L DB		-5 ~ 52		

Accessories*					
Panel	PT-MCGW0	PT-MPGW0	PT-MAGW0		
Dimension	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950		
Human Detection Kit	PTVSM	MAO OAN			
Air Purification Kit	-	- PTAHMPO, PTAHMP1*			
Wi-Fi Modem		PFWMDD200			
PI485	PMNFP14A1				
lonizer*		PAS-NATDR2			

SPECIFICATIONS

INVERTER CASSETTE 4 WAY



		Controller In	ncluded	10	0	n v
4 Way Cassette			Unit	2.0T (High Efficiency)	3,0T (High Efficiency)	4.0T (High Efficiency
		Outdoor unit		ZTUQ24GNLH1	ZTUQ36GNLH1	ZTUQ48GMLH2
Combination		Indoor unit		ZTNQ24GNLH1	ZTNQ36GNLH1	ZTNQ48GMLH2
Rated Capacity	Cooling	MinRated-Max.	kW	2.11 - 7.05 - 7.74	3.16 ~ 10.55 ~ 11.08	4.2 - 14.07 - 14.
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
All How Nace		117,117,2	CFM	742 / 653 / 530	883 / 777 / 671	953 / 812 / 671
Fan Motor	Туре	•			BLDC	
Sound Pressure Level	Cooling	H/M/L	dB(A)	40 / 35 / 29	45 / 41 / 37	46 / 42 /37
Dimensions	Body	WxHxD	mm	840 x 246 x 840	840 x 246 x 840	840 x 288 x 840
Weight	Body		kg	23.6	23.6	26.1
	Liquid Side		mm	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Connections	Gas Side		mm	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain Pipe	(O.D. / I.D.)	mm	Ø 32.0 / 25.0	Ø 32.0 / 25.0	Ø 32.0 / 25.0
Power and Communication Ca		7	No. x mm2 (AWG)	4C x 1.0 (18)	4C x 1.0 (18)	4C x 1.0 (18)
	Model Name		1 1		PT-MAGW0	
	Casing Colour			Morning Fog		
Decoration Panel	Dimensions	WxHxD	mm	950 x 35 x 950		
	Net weight		kg	5.0		
Outdoor Unit					7570	
	Model Name		Unit	ZTUQ24GNLH1	ZTUQ36GNLH1	ZTUQ48GMLH2
Power Supply			V, Ø, Hz	210021011	230 ,1 , 50	
Compressor	Туре		V, D, 112		Twin Rotary	
Heat Exchanger	Type (Coating)					in)
. reac exchanger	Type (Coating)			Fin & Tube Type (Hydrophilic + Black Fin) R32		7
Refrigerant	Control			Electronic Expansion Valve		
Fan Motor	Туре					
Sound Pressure Level	Cooling	Rated	dB(A)	54	BLDC 54	57
Wiring Connections	Power Supply Cable (included		No. x mm2 (AWG)	3C x 2.5 (14)	3C x 2.5 (14)	3C x 4.0 (12)
Circuit Breaker	. Sites Supply Cable (included		A A	3C X 25 (14)	25	32
Casing Colour				25	Warm Gray	J
30-00-0 - 00-00-0		WxHxD	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
nec magne	Liquid	Outer Dia.	mm	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Connections	Gas	Outer Dia.	mm	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
Piping Length	Gas	Min. / Max.	m	5 (16.4) / 50 (164.0)	5 (16.4) / 50 (164.0)	5 (16.4) / 50 (164.0
Maximum Height Difference	Outdoor Unit - Indoor Unit	Min. / Max.		30 (98.4)	30 (98.4)	30 (98.4)
Management and a superior supe	Outdoor Offic - Indoor Offic	IVIdX.	m	30 (90.4)	30 (30.4)	30 (90.4)
Operation Range (Outdoor Temperature)	Cooling	Min Max.	℃ DB		-5 - 52	

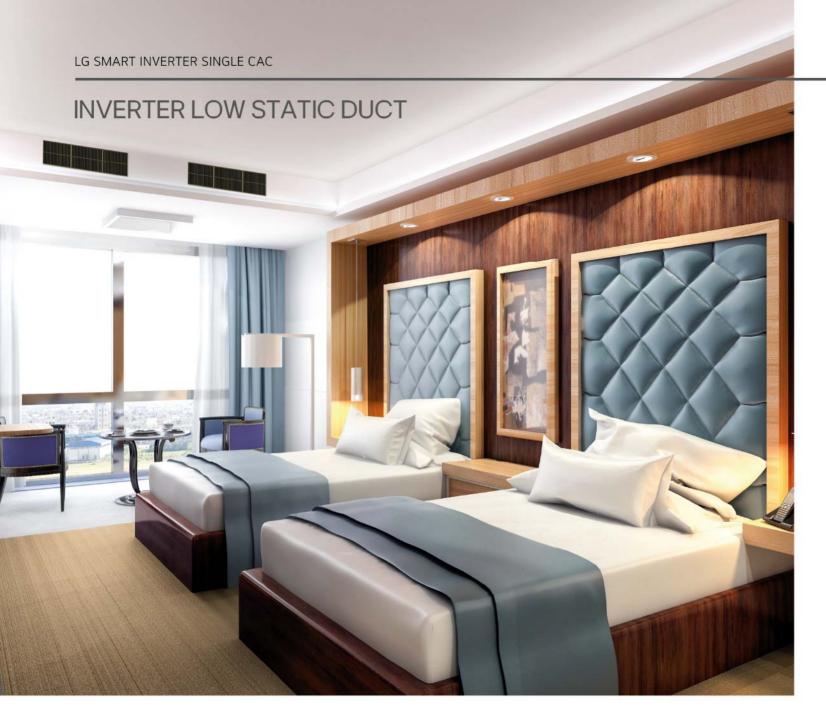
- Note:

 Performances are based on the following condition:

 Cooling: Indoor Ambient Temp. 27° CDB/19°CWB, Outdoor Ambient Temp. 35°CDB/24°CWB

 Interconneced Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is Om.

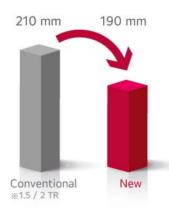
 To use function, correct combination of panel and accessory need to be purchased (Refer to panel info)



MINIMIZED HEIGHT

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

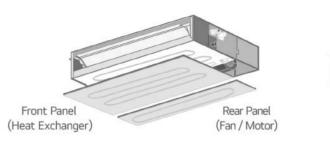


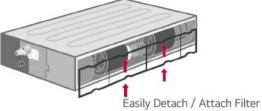


INVERTER LOW STATIC DUCT

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.



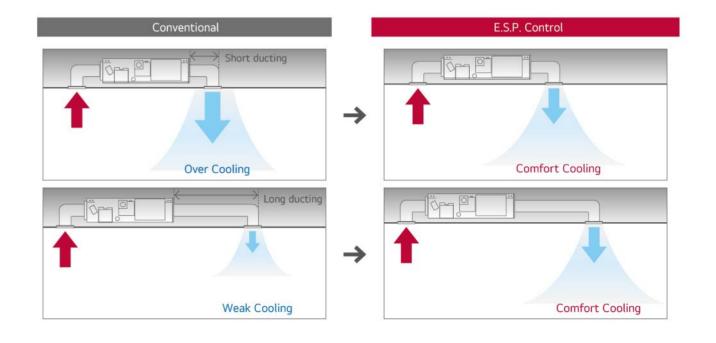


Selective panel separation

Easily detachable filter

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.

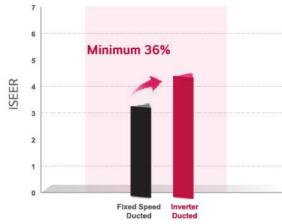




HIGH ENERGY EFFICIENCY

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:



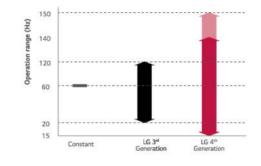
^{*} ISEER value is simulated data as per BEE ISEER Regulation

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.

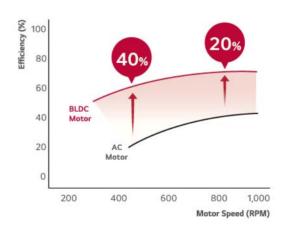






HIGHER EFFICIENCY WITH BRUSHLESS DC (BLDC) MOTORS

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











	conco	lei iliciuded				
Low Static Duct			Unit	1.5 T	2.0 T	
Combination	Outdoor unit			ZBUQ18GL5A2	ZBUQ24GL6A1	
Combination	Indoor unit	or.		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		Unit	ZBNQ18GL5A2	ZBNQ24GL6A1	
	Power Supply		V,Ø,Hz	230 ,1 , 5	50	
98746 SEEC		62002000	m³/min	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0	
Airflow Rate		H/M/L	CFM	530 / 441 / 353	706 / 565 / 424	
Fan Motor	Туре			BLDC		
Sound Pressure Level	Cooling	H/M/L	dB(A)	36/34/31	39 / 35 / 32	
Exterior	Colour	The second secon		Steel Gra		
Dimensions		WxHxD	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	
77	Liquid Side		mm	Ø 6.35 (1/4)	Ø 9.52 (3/8)	
Piping Connections	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 Cab	Properties of the Property		00	4C x 1.0 (18)	4C x 1.0 (18)	
Outdoor Unit	ile (Ilicidded Earth)	No. x mm2	(AWG)	4C X 1.0 (18)	4C X 1.0 (18)	
Outdoor Unit	Model Name		Unit	ZBUQ18GL5A2	ZBUQ24GL5A1	
	Power Supply		V, Ø, Hz	230,1,5		
Compressor	Type		V, D, NZ			
Heat Exchanger	Type (Coating)			Twin Rotary		
neat Exchanger	Type (Coating)			Fin & Tube Type (Hydrophilic + Black Fin) R32		
Refrigerant	Control					
Fan Motor	Туре			Electronic Expansion Valve BLDC		
Sound Pressure Level	Cooling	Rated	dB(A)	54	54	
Wiring Connections	Power Supply Cable (included		No. x mm2 (AWG)	3C x 1.5 (14)	3C x 2.5 (12)	
Cicuit Breaker	Power Supply Cable (Included	i cartify	A A	16	25	
Casing Colour			-	Warm Gr		
Dimensions		WxHxD	mm	770 x 545 x 288	870 x 650 x 330	
Net Weight		WATTAD		31.5 (69.4)	41.5 (91.4)	
ver vveight	Liquid	Outer Dia.	kg mm	Ø 6.35 (1/4)	Ø 9.52 (3/8)	
Piping Connections	Gas	Outer Dia.	mm	Ø 12.7 (1/2)	Ø 9.52 (3/6) Ø 15.88 (5/8)	
Dining Langth	Udb	Min. / Max.		5 (16.4) / 30 (98.4)	5 (16.4) / 50 (164.0)	
		m	20 (65.6)	30 (98.4)		
Maximum Height Difference Deration Range (Outdoor Temperature)	Cooling	Min. – Max.	m C DB	-5 - 52		
Accessories*	1	1				
Wi-Fi Modem				PWFMDD	200	
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
- Interconneced Pipe Length is 7.5m and difference of Elevation (Outdoor – Indoor Unit) is Om.

SPECIFICATIONS

INVERTER HIGH STATIC DUCT



* Wired Remote Controller Included			4			
High Static Duct	- X		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 - 38.6
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		Unit	ZBNQ66LRA0	ZBNQ102L8A0	JBNQ132L8A0
Power Supply			V,Ø,Hz		230, 1, 50	
	*	H/M/L	m3/min	58 / 52 / 46	90 / 78 / 65	113 / 100 / 89
Airflow Rate		H/M/L	CFM	2048 / 1836 / 1625	3178 / 2755 / 2295	3991 / 3531 / 3143
Fan Motor	Туре		-		BLDC	
Sound Pressure Level		H/M/L	dB(A)	45 / 43 / 41	52 / 50 / 48	49 / 47 / 45
Dimensions	Body	WxHxD	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.		No. x mr	n2 (AWG)	4C x 1.0 (18)	4C x 1.0 (18)	4C x 1.0 (18)
Outdoor Unit	140		A) - 10			
	Model Name		Unit	ZBUQ66LRA0	ZBUQ102L8A0	JBUQ132L8A0
Power Supply			V,Ø,Hz		415, 3, 50	
Compressor	Туре		+	Twin Rotary	Twin Rotary	Scroll
Heat Exchanger	Type (Coating)		L	Fin & Tube Type (Hydrophilic + Black Fin)		
Refrigerant	Туре			R32	R32	R410A
	Control			Electronic Expansion Valve		
Fan Motor	Туре		22	BLDC		
	Output		W x No.	124 x 1	124 x 2	124 x 2
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			5		Warm Gray	
Dimensions W x H x D			mm	950 × 834 × 330	950 × 1,380 × 330	1,090 ×1,625 × 386
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	12	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*	1	1,50000	1	A 200	10000000	
Wi-Fi Modem					PWFMDD200	
PI485		PMNFP14A1				
y						

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



CENTRAL CONTROL SOLUTION

AC Ez Touch

H 0 0

CST

DUCT

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

PACEZA000

INDIVIDUAL CONTROLLER

Standard III



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

PREMTB101

DRY CONTACT SOLUTION

Dry Contact



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

PDRYCB320

CONTROL SOLUTION

CONTROLLER LINE UP

Smart management for a variety of usages.

CENTRAL CONTROLLER

ACP 5



PACP5A000

- Max. 256 unit
- Yearly schedule
- · BACnet / Modbus gateway

· Individual controller lock

· Individual controller lock

Operation log

· Floor map view

- PC, Smartphone, Tablet control Operation log
 - Floor map view

AC Smart 5



PACS5A000

- Max. 128 unit
- 10.2" touch
- · Yearly schedule
- · BACnet / Modbus gateway

AC Ez Touch



PACEZE000

- · Max. 64 unit
- 5" touch
- · Yearly schedule
- Individual controller lock
- · Operation log

BMS PROTOCOL GATEWAY

ACP LonWorks



PLNWKB000 (Indoor Unit -64)

INDIVIDUAL CONTROLLER

Standard II Standard III





PREMTB001



PREMTB101

PREMTA201

Wireless R/C Premium



PREMTA000 (5" touch colour)



PWLSSB21H

Wi-Fi Modem



PWFMDD200 (For Indoor Unit)

ETC. ACCESSORIES

Dry Contact



PDRYCB320 PDRYCB400

PI 485

PMNFP14A1 (For Outdoor Unit)

Control

Solution