1001 – ACMG – MAS – ACE – STR – 0006.

LODHA BUILDING A BETTER LIFE	Lodha Sales Gallery, Manpada, Thane	ACE GLOBAL AIRCON SERVICES LTD.	Work Order No.:
			Material Approval Submittal
			MAS No:

Contractor: ACE GLOBAL AIRCON SRVICES LTD

To LODHA Group: **Lodha Sales Gallery, Manpada, Thane** | Date: 04-03-2022

Discipline ☐ Architectural ☐ Structural ■ HVAC ☐ Electrical ☐ Plumbing ☐ Facade ☐ Others (.....)

MATERIAL DETAILS (One Item Only Per Form)

Item description : LG make Indoor & Outdoor Unit

Name of material : LG make Indoor & Outdoor Unit

Remarks ☐ As per specifications ☐ Alternate submission

- Attach all relevant technical literature marked to identify relevant descriptions, current test certificate, samples etc.
- Highlight any element of contractual non-compliance in this submittal

	Planned Date for applicable submittal for: -	**Date:**
Drawing Ref: -	1. O & M Manual	
Specification Ref: -	2. Training Manual	
BOQ Ref: -	3. Specified /recommended spare parts	
Indian/International Standards Ref: -	4. Warranties and Guarantees	

Manufacturer / Supplier

Company Name: - LG Electronics India Pvt.Limited	Locally Manufactured
Address: 7th Floor, C wing, Corporate Avenue,	Production Period
Near Mirador Hotel, Opp Skoda Showroom, Chakala,	Delivery Ex-works
Ghatkopar Link Road, Andheri East , Mumbai -400093	Total Delivery Time
Local Agent:	Total Delivery Time

Programme: -

Date required on Site: -

Expected date of arrival on Site: -

Contractor's Authorized Signature

LODHA Engineer's Comments ☐ Design ☐ Con. Mgmt (Civil) ☐ Con. Mgmt (MEP) ☐ Con. Mgmt (Facade) ☐ QA/QC

CAPACITY AND FLOW AS MENTIONED IN CATALOG TO BE ENSURED AT SITE IN COMMISSIONING.TEST CERTIFICATES TO BE PROVIDED PRIOR INSTALLATIONS. PROJECT TEAM TO ENSURE THE SLAB LOAD HANDLING CAPACITY FOR UNIT INSTALLATIONS IN CONFIRMATION WITH CIVIL TEAM.TENDER BOQ & SPECIFICATIONS COMPLIANCE MISSING APPROVAL SUBJECTED TO ABOVE COMPLIANCE.

Signed (LODHA Engineer)

Consultant's Comments. ☐ Hafeez contractor ☐ Sterling ☐ ESKEYEM ☐ Others (.....)

Signed (Consultant's Engineer)

Status	**Code 1** Work may proceed	**Code 2** Conditionally approved. Work may proceed and resubmit incorporating comments indicated	**Code 3** Revise & Resubmit. Work may not proceed	**Code 4** For information and records only. Work may proceed.

Project Director | **Date: -**

Jangbahadur Sonkar

Digitally signed by Jangbahadur Sonkar
DN: C=IN, OU=Lodha Group, O=Lodha Group, CN=Jangbahadur Sonkar, E=jangbahadur.sonkar@lodhagroup.com
Reason: I am approving this document
Location: your signing location here
Date: 2022.03.06 16:41:58+05'30'
Foxit PDF Reader Version: 11.1.0

CC: VP (QA/QC), VP (Purchase)

Code 1 – Work may proceed
Code 2 – Conditionally approved. Work may proceed and resubmit incorporating comments.
Code 3 – Revise & Resubmit. Work may not proceed
Code 4 – For information and records only. Work may proceed
Important: Permission to proceed does not relieve contractor from full compliance with contractual obligations

Light Commercial Air_Conditioning_Data_FY_20pages

LG
Life's Good

LIGHT COMMERCIAL AIR-CONDITIONING PRODUCTS





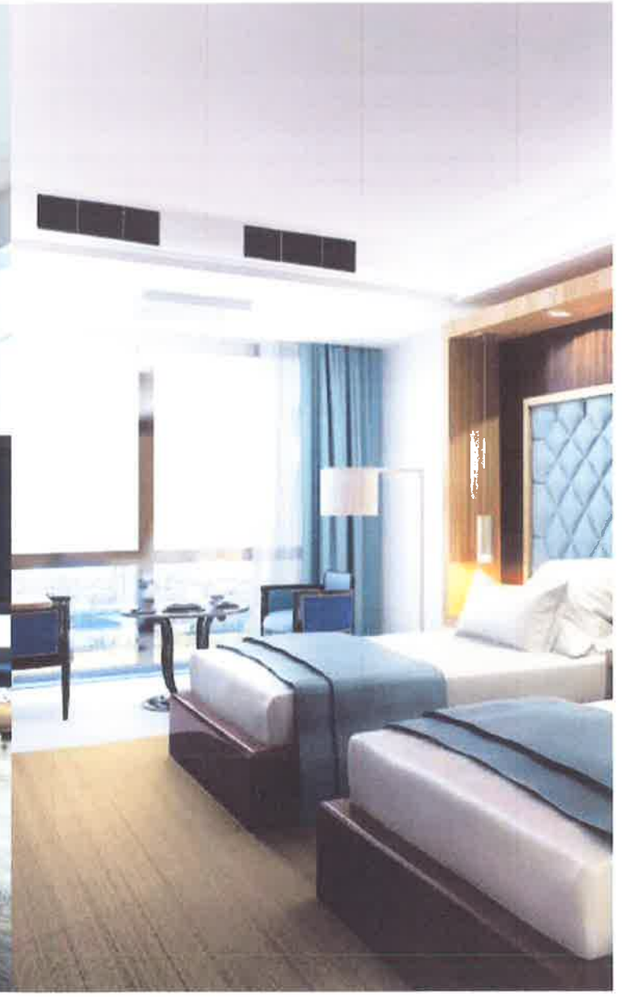
Energy Efficiency | Black Fin Protection | Air Purification | Human Detection | Smart Control

ACE GLOBAL AIRCON PVT. LTD. MUMBAI

LG SAC CUSTOMER CARE
1800-180-3575 (Service Toll Free)
www.lg.com/in
cac.service@lgepartner.com
www.facebook.com/LGIndiaCommercialAC
www.twitter.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
Partner portal: http://partner.lge.com/in/
Regd. Office: LG Electronics India Pvt. Ltd., A-24/6, Mohan Cooperative Industrial Estate, Mathura Road, New Delhi-110044 CIN No. U32107DL1997PTC220109

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LG Air Solution 04

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

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
• Inverter Floor Standing

Control Solution 34

ACE GLOBAL AIRCONDITIONERS PVT. LTD. MUMBAI

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 2 academies located at Greater Noida and Pune within factory premises. 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

R32

LG's revolutionary Inverter technology boasts of powerful yet quiet performance while minimising 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

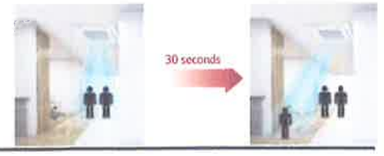
Provides fresh air with powerful air cleaning process and offers real time air quality monitoring system.



4

HUMAN DETECTION

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



5

SMART CONTROLS

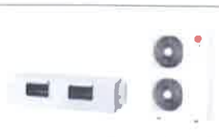
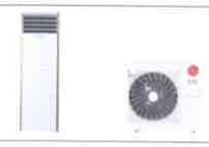
LG Single CAC responds to diverse building environments with LG ThinQ-based AI control and individual/central integrated control solutions.



ACE GLOBAL MARCON SERVICES LTD. MUMBAI

LINE UP



Product	1.5 TR	2.0 TR	3.0 TR	4.0 TR	5.5 TR	8.5 TR	11.0 TR
Inverter Cassette 4 Way R32	 3★ 5★	 4★ 5★	 5★	 RI Compressor 5★			
Inverter Cassette 1 Way R32	 4★	 3★					
Inverter Low Static Duct R32							
Inverter High Static Duct							
Inverter Floor Standing							

AIRCON SERVICES LTD. ACE AUTO P. LTD. MUMBAI

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.

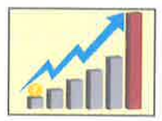
HOW IT WORKS?

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



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

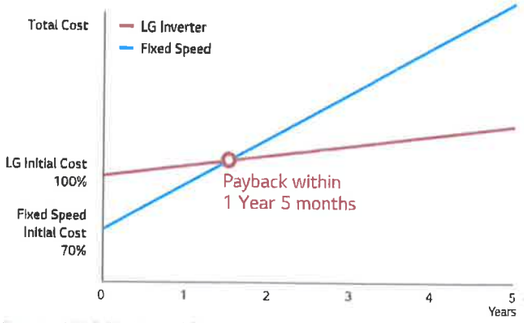




LG Super 5-Star Inverter (1.5 Tr)

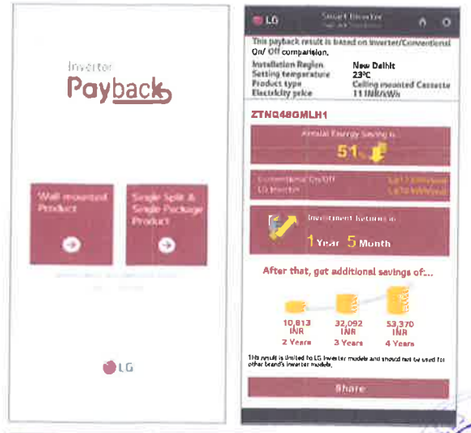
PAY BACK

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



Capacity : 4 TR Ceiling Mounted Cassette
Operating time : 08:00~22:00
Cooling period load and power consumption calculated based on yearly weather data
(Target indoor temperature : 27°C) India (Delhi)

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



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

BLACK FIN FOR CORROSION RESISTANCE

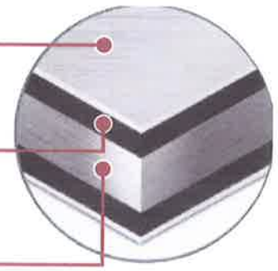


Black fin for corrosion resistance

Hydrophilic coating
The hydrophilic coating minimises moisture buildup on the fin.

Complex resin (Corrosion resistant)
The black coating provides strong protection from corrosion.

Aluminum fin





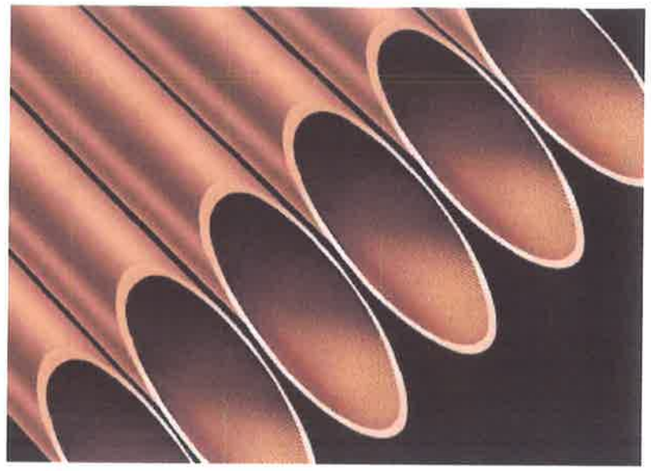
CORROSION RESISTANCE PROVEN BY CERTIFIED TESTS



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, TUV.

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

HI-GROOVED COPPER

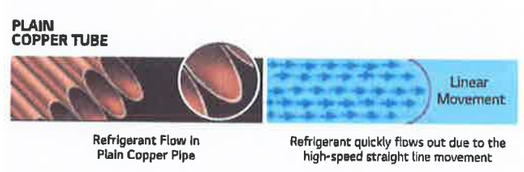


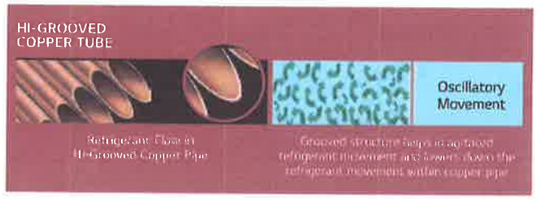
High grooved copper pipes serve dual benefits of better heat dissipation of refrigerant & increasing the durability of pipe.

BENEFITS

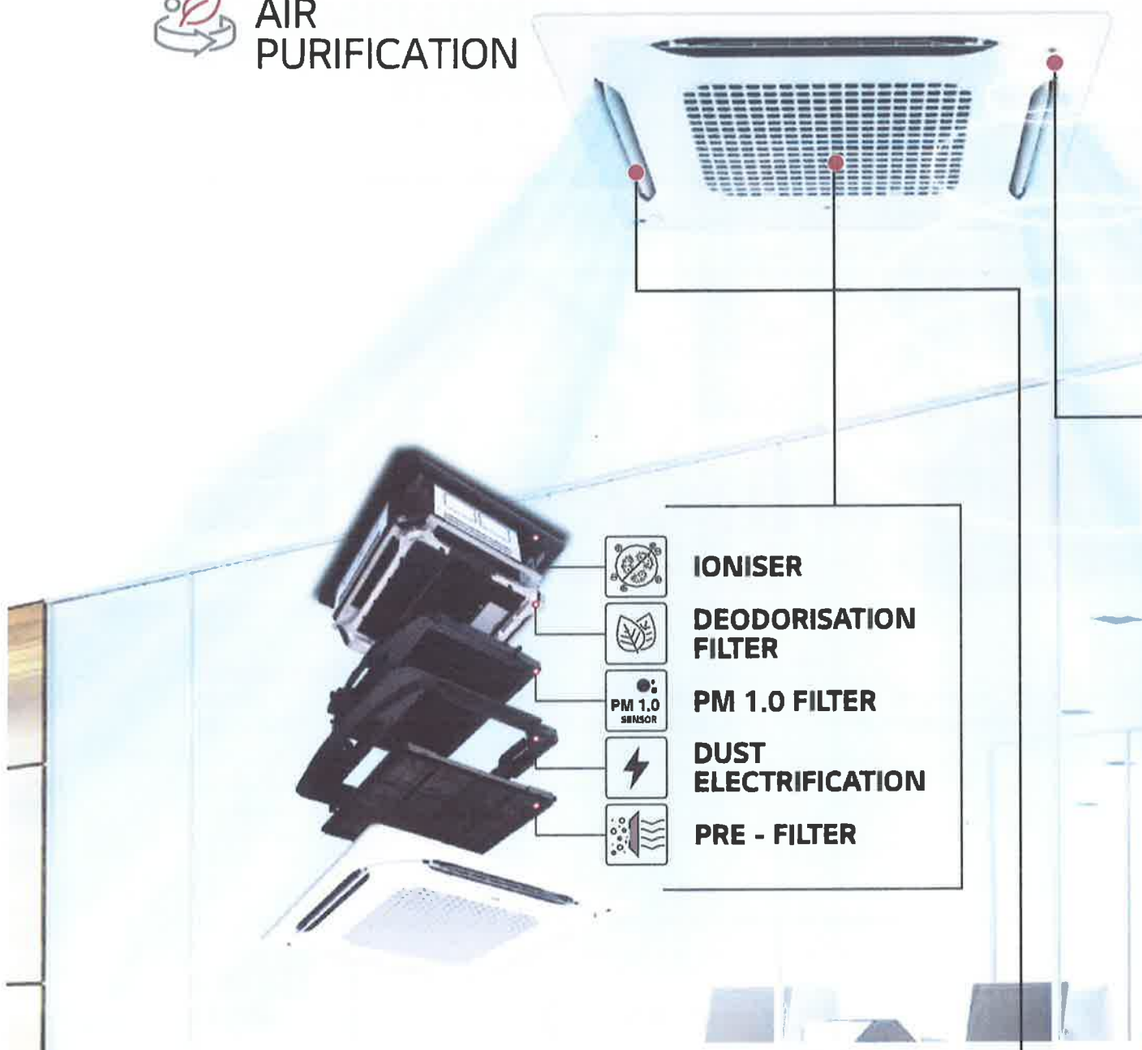
- Inner grooved structure enables the oscillatory movement for better heat dissipation as it increases travel time of refrigerant within pipes.
- Grooves also strengthens the overall pipe structure because of which they can withstand high pressure.
- More efficient heat transfer can withstand higher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



Real Time Air Quality Monitoring



Mobile device



Remote controller



Indoor unit smart indicator

※ Air purification kit is an optional accessory and is only available with 1Way & 4 Way cassettes (Refer to product line up)

CORE BENEFITS OF LG SMART INVERTER SINGLE CAC

HUMAN DETECTION



AIR PURIFICATION



- **IONISER**
- **DEODORISATION FILTER**
- **PM 1.0 FILTER**
- **DUST ELECTRIFICATION**
- **PRE - FILTER**

Real Time Air Quality Monitoring



Mobile device



Remote controller



Indoor unit smart indicator

※ Air purification kit is an optional accessory and is only available with 1Way & 4 Way cassettes (Refer to product line up)

HUMAN DETECTION

Energy saving & comfort cooling through human detection.



Human Detection Sensor (PTVSMA0)



Energy Saving

- On/Off Control
- Temperature Control

Comfort Air

- Indirect Airflow
- Direct Airflow

ACE GLOBAL AIRCON SERVICES LTD.

SMART CONTROLS

LG ThinQ™

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



Simple operation for various functions

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

※ 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.



INVERTER CASSETTE 1 WAY



REDDOT AWARD WINNING DESIGN ENHANCES LUXURY HOUSE INTERIOR

Compact and round shaped panel brings excellent fit to ceiling.

reddot award winner

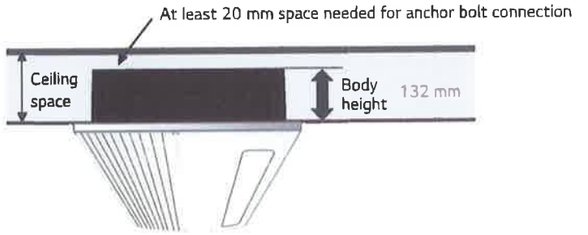




ACE GLOBAL AIRCON SERVICES LTD.

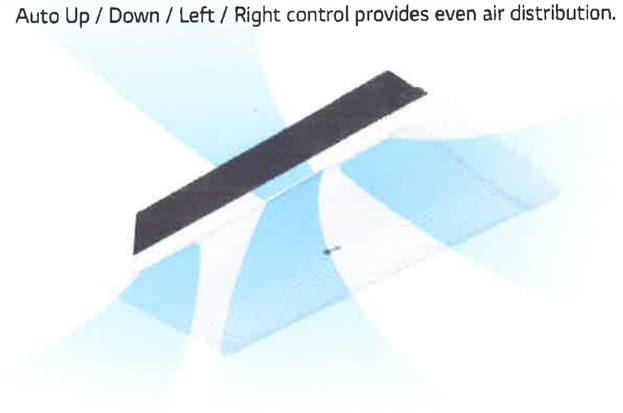
SLIM & COMPACT INDOOR UNIT

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



COMFORT COOLING (DIRECT / INDIRECT WIND)

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





SPECIFICATIONS

INVERTER 1 WAY CASSETTE



Comply

1 WAY Cassette		Nominal Capacity		U18	U24
Combination	Outdoor unit			ZTUQ18GTLA1	ZTUQ24GTLA1
	Indoor unit			ZTNQ18GTLA1	ZTNQ24GTLA1
Rated Capacity	Cooling	Min.-Rated-Max.	kW	1.58 - 5.2 - 6.0	2.21 - 7.10 - 7.7
Power Input	Cooling	Rated	kW	1.55	2.45
EER / COP			W / W	3.35	2.90
ISEER				4.40	3.95
ISEER Grade				4★	3★
Indoor Unit					
Model Name			Unit	ZTNQ18GTLA1	ZTNQ24GTLA1
Power Supply			V, Ø, Hz	230 ,1 , 50	
Air Flow Rate		H / M / L	m³/min	16 / 14 / 12	16 / 14 / 12
Fan Motor	Type			BLDC	
Sound Pressure Level		H / M / L	dB(A)	46 / 43 / 39	46 / 43 / 39
Dimensions	Net	W x H x D	mm	1,180 x 132 x 450	1,180 x 132 x 450
Weight	Net		kg(lbs)	14.2	14.2
Piping Connections	Liquid Side		mm (inch)	Ø 6.35(1/4)	Ø 9.52(3/8)
	Gas Side		mm (inch)	Ø 12.7(1/2)	Ø 15.88(5/8)
	Drain Pipe	O.D. / I.D.	mm	Ø 32 / 25	Ø 32 / 25
Power and Communication Cable (Included Earth)			No. x mm2 (AWG)	4C x 0.75(18)	4C x 0.75(18)
Decoration Panel 1	Model Name			PT-TAHW0	
	Colour			White	
	Dimensions	W x H x D	mm	1,420 x 34 x 500	
	Net Weight		kg	4.5	
Outdoor unit					
Model Name			Unit	ZTUQ18GTLA1	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)	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 (lbs)	31.5 (69.4)	41.5 (91.4)
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
Piping Length		Min. / Max.	m (ft)	5 (16.4) / 30 (98.4)	5 (16.4) / 50 (164.0)
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.	m (ft)	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 • Interconneced Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.

Accessories*		
Panel	 PT-TAHW0	 PT-TPHG0
Dimension	1,420 x 34 x 500	1,480 x 34 x 500
Human Detection Kit	-	-
Air Purification Kit	-	PTAHTP0
Wi-Fi Module	PFWMDD200	
PI485	PFNFP14A1	

ACE GLOBAL AIRCON SERVICES LTD.

NOTES

INVERTER CASSETTE 4 WAY



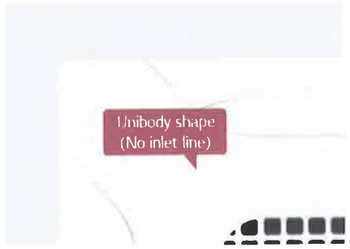
STYLISH DESIGN PANEL

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

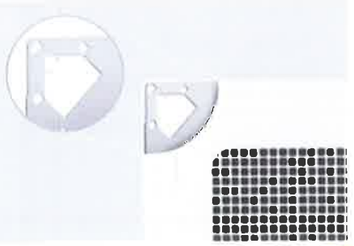
Interior fit



Lineless surface



Detachable corner



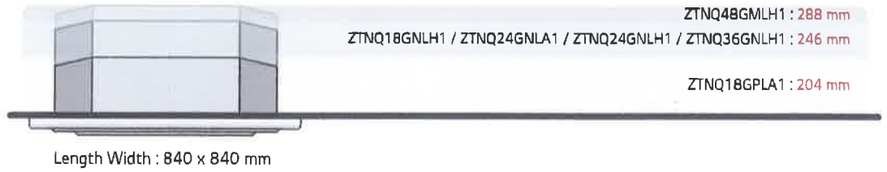
reddot design award

ACE GLOBAL AIRCON SERVICES LTD. MUMBAI

INVERTER CASSETTE 4 WAY

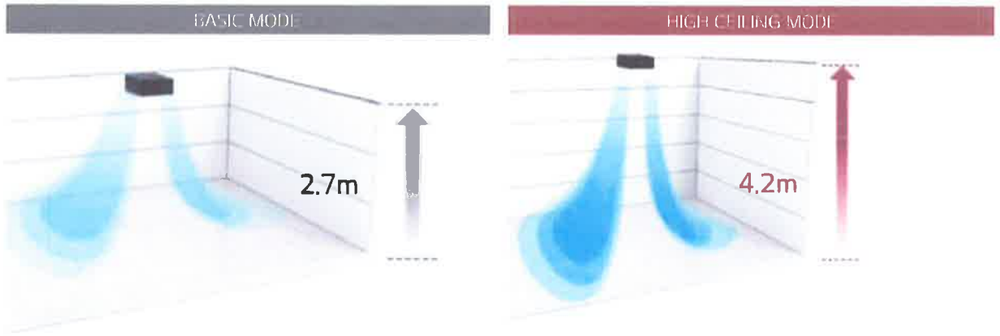
COMPACT SIZE

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

Air flow 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

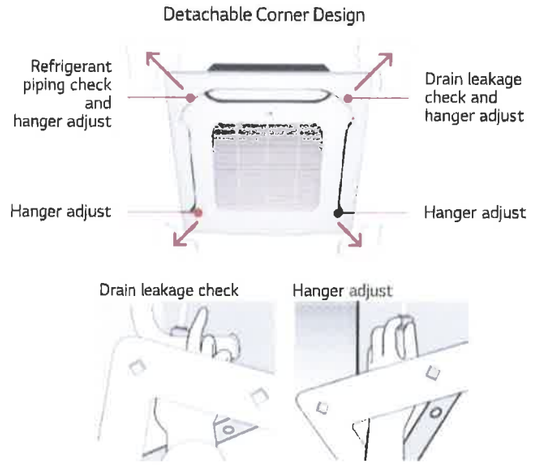
Capacity	≤ 9,0 kW	> 9.0 kW	Mode Selection
Ceiling Height	H ≤ 2.3m	H ≤ 2,3m	Low Ceiling
	2.3m < H ≤ 2.7m	2.7m < H ≤ 3.2m	Standard
	2.7m < H ≤ 3.1m	3.2m < H ≤ 3.6m	High Ceiling
	3.1m < H ≤ 3.6m	3.6m < H ≤ 4.2m	Super High Ceiling

LG SMART INVERTER SINGLE CAC

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 AIR FLOW

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 °.





ACE GLOBAL AIRCON SERVICES LTD.

SPECIFICATIONS

INVERTER CASSETTE 4 WAY





*Wireless Remote Controller Included



4 Way Cassette		Nominal Capacity		U12 A Chassis	U18 A Chassis	U18 A Chassis
Combination		Outdoor unit		ZTUQ18BGPLA1	ZTUQ18GNLH1	ZTUQ24GNLA1
		Indoor unit		ZTNQ18BGPLA1	ZTNQ18GNLH1	ZTNQ24GNLA1
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	2.0
EER / COP			W / W	2.85	4.09	3.34
ISEER				3.95	5.25	4.40
ISEER Grade				3★	5★	4★
Indoor Unit						
Model Name			Unit	ZTNQ18BGPLA1	ZTNQ18GNLH1	ZTNQ24GNLA1
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	21.0 / 18.5 / 15.0
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	mm	840 x 204 x 840	840 x 246 x 840	840 x 246 x 840
Weight	Body		kg (lbs)	20.5(45.2)	23.5 (51.8)	23.6(52.0)
Piping Connections	Liquid Side		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas Side		mm(inch)	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 0.75 (18)	4C x 0.75 (18)	4C x 0.75 (18)
Decoration Panel	Model Name			PT-UMC2		
	Casing Colour			Morning Fog		
	Dimensions	W x H x D	mm	950 x 35 x 950		
	Net weight		kg (lbs)	5.0 (11.0)		
Outdoor unit						
Model Name			Unit	ZTUQ18BGPLA1	ZTUQ18GNLH1	ZTUQ24GNLA1
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 (14)	3C x 1.5 (14)	3C x 1.5 (14)
Cicuit Breaker			A	16	16	16
Casing Colour			-	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 (lbs)	24.9(54.9)	31.5 (69.4)	31.7 (69.9)
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	Ø 12.7 (1/2)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
Piping Length		Min. / Max.	m (ft)	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 (ft)	15(49.2)	20 (65.6)	20 (65.6)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	℃ DB	-5 ~ 52		

Accessories*			
Panel	PT-UMC2	PT-MCGW0	PT-MPGW0
Dimension	950 x 35 x 950	950 x 35 x 950	
Human Detection Kit	-	PTVSMA0	
Air Purification Kit	-	-	PTAHMP0
Wi-Fi Module	PFWMDD200		
PI485	PFNFP14A1		

LG SMART INVERTER SINGLE CAC

SPECIFICATIONS

INVERTER CASSETTE 4 WAY





*Wireless Remote Controller Included



4 Way Cassette		Nominal Capacity		U24 A Chassis	U24 A Chassis	U36 A Chassis
Combination		Outdoor unit		ZTUQ24GNLH1	ZTUQ36GNLH1	ZTUQ48GMLH1
		Indoor unit		ZTNQ24GNLH1	ZTNQ36GNLH1	ZTNQ48GMLH1
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	ZTNQ48GMLH1
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	27.0 / 23.0 / 19.0
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	mm	840 x 246 x 840	840 x 246 x 840	840 x 288 x 840
Weight	Body		kg (lbs)	23.6(52.0)	23.6(52.0)	26.1 (57.5)
Piping Connections	Liquid Side		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas Side		mm(inch)	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 Cable (included Earth)			No. x mm2 (AWG)	4C x 0.75 (18)	4C x 0.75 (18)	4C x 0.75 (18)
Decoration Panel	Model Name			PT-UMC2		
	Casing Colour			Morning Fog		
	Dimensions	W x H x D	mm	950 x 35 x 950		
	Net weight		kg (lbs)	5.0 (11.0)		
Outdoor unit						
Model Name			Unit	ZTUQ24GNLH1	ZTUQ36GNLH1	ZTUQ48GMLH1
Power Supply			V, Ø, Hz	230 , 1 , 50		
Compressor	Type		-	Twin Rotary		Scroll
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 (12)	3C x 2.5 (12)	3C x 2.5 (12)
Cicuit Breaker			A	25	25	32
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 (lbs)	41.5 (91.4)	41.5 (91.4)	59 (130.1)
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
Piping Length		Min. / Max.	m (ft)	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	Max.	m (ft)	30 (98.4)	30 (98.4)	30 (98.4)
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
- Interconnced 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)

ACE GLOBAL AIRCON SERVICES LTD. MUMBAI

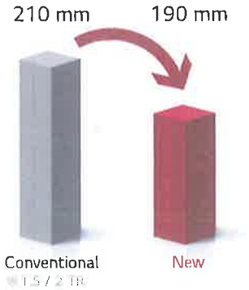
INVERTER LOW STATIC DUCT



MINIMISED HEIGHT

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

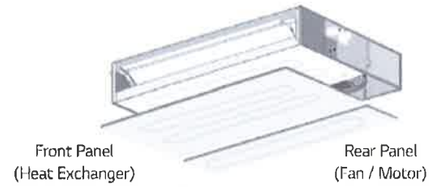




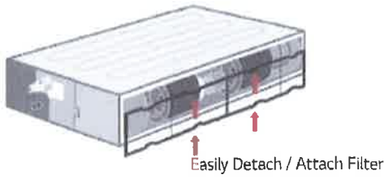
LG SMART INVERTER SINGLE CAC

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.



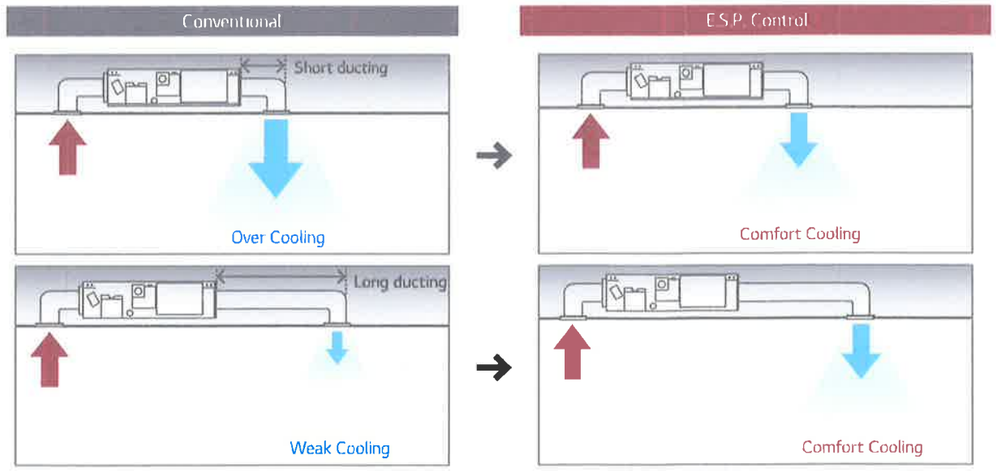
Selective panel separation



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 air flow.



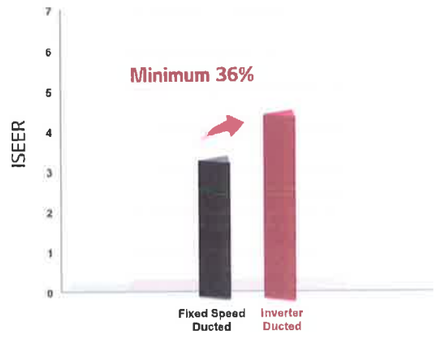
ACE GLOBAL MUMBAI
MARCON SERVICES LTD.



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:



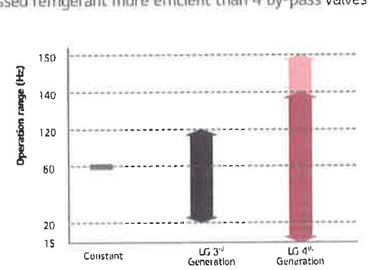
* ISEER value is simulated data as per BEE ISEER Regulation

HIGH ENERGY EFFICIENCY AT PART LOADS

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

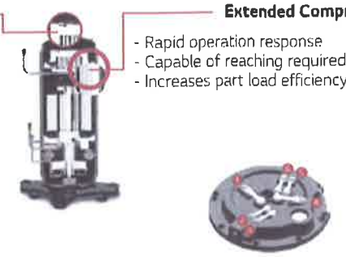
6 by-pass valves

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



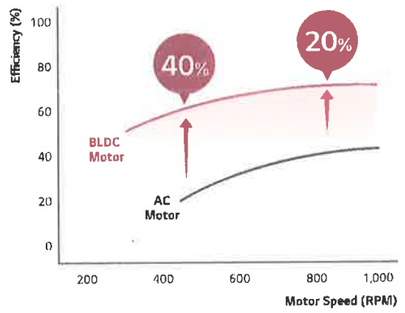
Extended Compressor Speed 150Hz

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



HIGHER EFFICIENCY WITH BRUSHLESS DC (BLDC) MOTORS

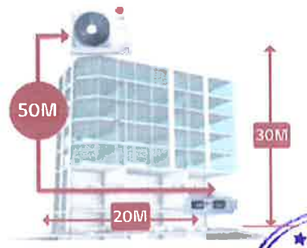
BLDC motors are more efficient than conventional AC motors used by others. BLDC motors are about 40% more efficient at lower speeds and about 20% more efficient at higher speeds.



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		Nominal Capacity			7.5 TR	20 TR
Combination	Outdoor unit				ZBUQ18GL5A1	ZBUQ24GL6A1
	Indoor unit				ZBNQ18GL5A1	ZBNQ24GL6A1
Rated Capacity	Cooling	Min.~Rated~Max.		kW	1.58 ~ 5.27 ~ 6.00	2.11 ~ 7.03 ~ 7.74
Power Input	Cooling	Rated		kW	1.64	2.15
EER / COP				W / W	3.21	3.28
Indoor Unit						
Model Name				Unit	ZBNQ18GL5A1	ZBNQ24GL6A1
Power Supply				V , Ø , Hz	230 , 1 , 50	
Air Flow Rate		H / M / L		m³/min	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
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 (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas Side			mm (inch)	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
Outdoor unit						
Model Name				Unit	ZBUQ18GL5A1	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	Cooling	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 (lbs)	31.5 (69.4)	41.5 (91.4)
Piping Connections	Liquid	Outer Dia.		mm(inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas	Outer Dia.		mm(inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
Piping Length		Min. / Max.		m (ft)	5 (16.4) / 30 (98.4)	5 (16.4) / 50 (164.0)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.		m (ft)	20 (65.6)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.		℃ 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
- Interconneced 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		Nominal Capacity			5 TR	10 TR	15 TR
Combination	Outdoor unit				JBUQ66LRA0	JBUQ102L8A0	JBUQ132L8A0
	Indoor unit				JBNQ66LRA0	JBNQ102L8A0	JBNQ132L8A0
Rated Capacity	Cooling	Min.~Rated~Max.		kW	5.27 ~ 17.58 ~ 19.94	8.44 ~ 28.13 ~ 30.95	10.54 ~ 35.16 ~ 38.67
Power Input	Cooling	Rated		kW	5.24	8.5	10.0
EER / COP				W / W	3.35	3.31	3.52
Indoor Unit							
Model Name				Unit	JBNQ66LRA0	JBNQ102L8A0	JBNQ132L8A0
Power Supply				V / Ø / Hz	220-240 / 1 / 50		
Air Flow Rate		H / M / L		m3/min	58.0 / 52.0 / 46.0	90.0 / 78.0 / 65.0	113.0 / 100.0 / 89.0
		H / M / L		ft3/min	2,048 / 1,836 / 1,624	3,178 / 2,755 / 2,295	3,991 / 3,531 / 3,143
Fan Motor	Type			-	BLDC		
Sound Pressure Level		H / M / L		dB(A)	45 / 43 / 41	47 / 45 / 43	49 / 47 / 45
Dimensions	Body	W x H x D		mm	1,230x380x590	1,562x460x688	1,562x460x688
Net Weight	Body			kg (lbs)	48 (105.82)	85 (187.39)	89 (196.21)
Piping Connections	Liquid			mm(inch)	Ø 9.52	Ø 9.52	Ø 12.7
	Gas			mm(inch)	Ø 19.05	Ø 22.2	Ø 22.2
	Drain (O.D. / I.D.)			mm	Ø 32.0 / 25.0	Ø 32.0 / 25.0	Ø 32.0 / 25.0
Outdoor unit							
Model Name				Unit	JBUQ66LRA0	JBUQ102L8A0	JBUQ132L8A0
Power Supply				V / Ø / Hz	415 / 3 / 50		
Compressor	Type			-	Twin Rotary	Scroll	
Heat Exchanger	Type (Coating)				Fin & Tube Type (Hydrophilic + Black Fin)		
Refrigerant	Type			-	R410A		
	Control			-	Electronic Expansion Valve		
Fan Motor	Type				BLDC		
	Output			W x No.	124 x 1	124 x 2	250 x 2
Sound Pressure Level	Cooling		Rated	dB(A)	55	57	63
Wiring Connections	Power Supply Cable (included Earth)			No. x mm2 (AWG)	5C x 2.5 (12)	5C x 4.0 (10)	5C x 6.0 (8)
	Power Cable (ODU-IDU)/Communication Cable			No. x mm2	4C x 0.75	4C x 0.75	4C x 0.75
Dimensions		W x H x D		mm	950 x 834 x 330	950x1,380x330	1,090 x 1,625 x 380
		W x H x D		inch	32-27/32 x 37-13/32 x 13	37-13/32 x 54-11/32 x 13	42-29/32 x 63-31/32 x 14-31/32
Net Weight				kg (lbs)	70 (154.3)	108 (238.1)	150 (330.7)
Piping Connections	Liquid		Outer Dia.	mm(inch)	Ø 9.52	Ø 9.52	Ø 12.7
	Gas		Outer Dia.	mm(inch)	Ø 19.05	Ø 22.2	Ø 22.2
Piping Length			Max.	m (ft)	50 (164.0)	50 (164.0)	50 (164.0)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit		Max.	m (ft)	30 (98.4)	30 (98.4)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling		Min. ~ Max.	℃ DB	-5 ~ 53		
Accessories*							
Wi-Fi Module					PWFMDD200		
PI485					PMNFP14A1		
Note :							

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.

ACE GLOBAL AIRCON SERVICES LTD.



INVERTER FLOOR STANDING

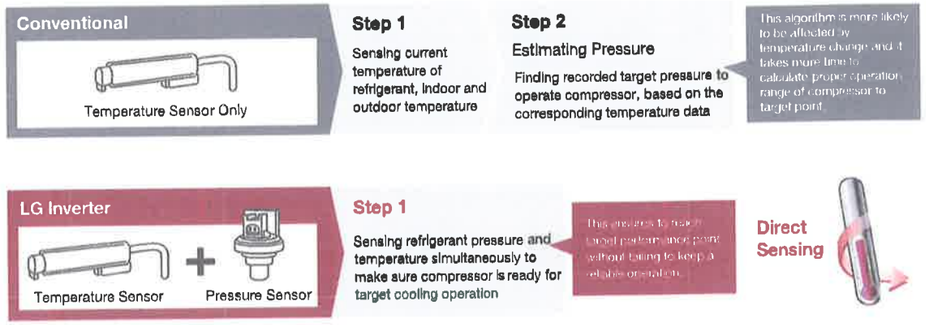
DISTANT AIRFLOW PERFORMANCE

▪ 10m long distance airflow ▪ 10m windblast sends cool air to all corners of the room

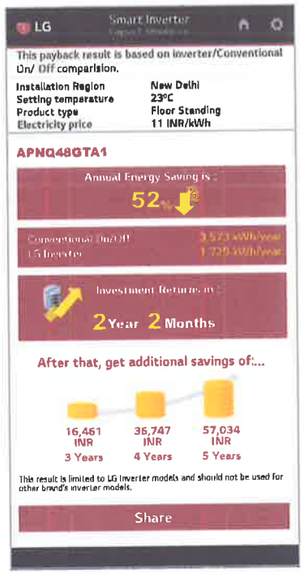


POWER COOLING

Pressure control takes less time to reach the desired temperature up to **30%** in cooling with high level of accuracy and stability.

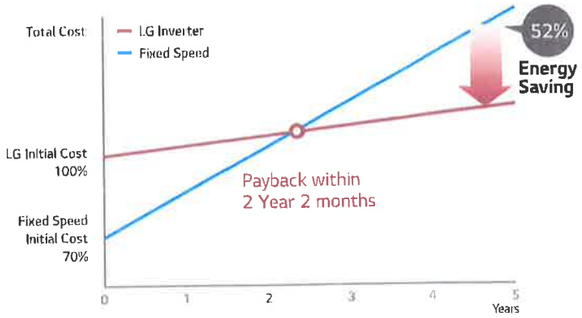


PAY BACK



Payback for 4Tr
Inverter Floor Standing

SUPER ENERGY SAVING





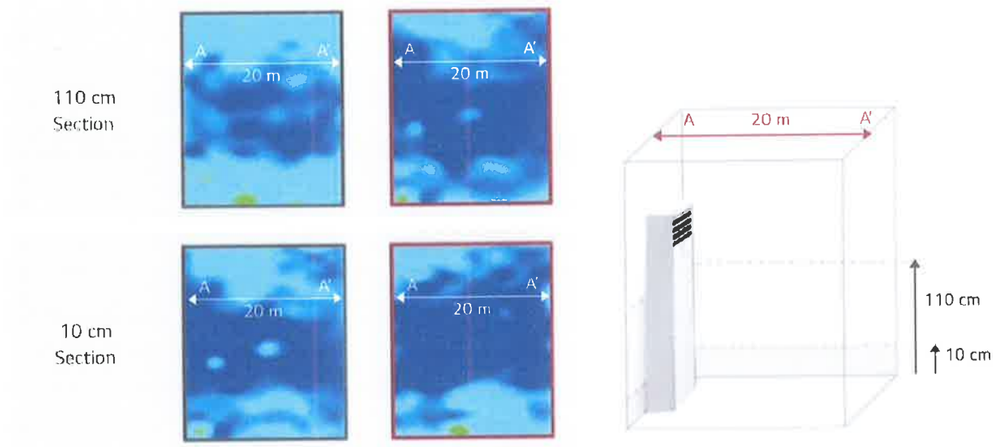
※ Under in-house test conditions as per ISEER, while comparing with conventional Air Conditioner (4STAR) available in the market, by running on 14hrs/day for 245 days, calculating the electricity charges @ ₹11.00/kWh.

ACE GLOBAL SERVICES LTD. MUMBAI

EXCELLENT COOLING PERFORMANCE

Power cooling function provides the optimal air flow angle, guaranteeing a faster and higher cooling performance.

Powerful & Even Air Distribution



※ Indoor : 27℃ — 24℃ / Outdoor : 46℃

4 WAY AUTO SWING (NEW FAN TECHNOLOGY)

Using new fan technology, LG provides strong air flow rate and low noise level.



* Based on 4 Tr Floor Standing model

SPECIFICATIONS

INVERTER FLOOR STANDING



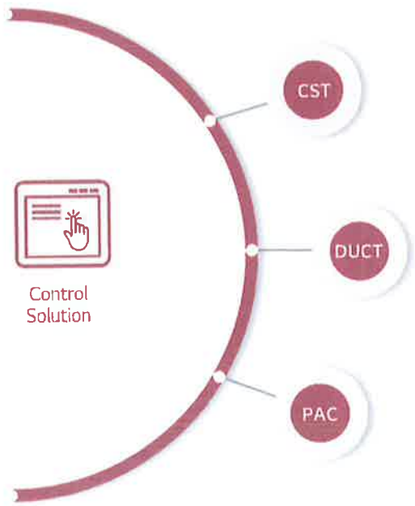
Floor Standing (Tower)		Nominal Capacity		A1Q
Combination	Outdoor			AUUQ48LH1
	Indoor			APNQ48GTA1
Rated Capacity	Cooling	Min.-Rated-Max.	kW	5.67 - 14.07 - 14.95
Power Input	Cooling	Rated	kW	4.42
EER / COP			W / W	3.18
Indoor Unit				
Model Name			Unit	APNQ48GTA1
Power Supply			V / Ø / Hz	230, 1, 50
Air Flow Rate		SH / H / M / L	m3/min	38.0 / 32.0 / 28.0 / 24.0
		SH / H / M / L	ft3/min	1,342 / 1,130 / 989 / 848
Fan Motor	Type		-	BLDC
Sound Pressure Level		SH / H / M / L	dB(A)	56 / 53 / 50 / 47
Dimensions	Body	W x H x D	mm	590 x 1,840 x 460
Net Weight	Body		kg (lbs)	49.0 (108.0)
Piping Connections	Liquid		mm(inch)	Ø 9.52 (3/8)
	Gas		mm(inch)	Ø 15.88 (5/8)
	Drain (O.D. / I.D.)		mm	Ø 21.0 / 17.0
Outdoor unit				
Model Name			Unit	AUUQ48LH1
Power Supply			V , Ø , Hz	380-415, 3, 50
Compressor	Type		-	Twin Rotary
Heat Exchanger	Type (Coating)		-	Fin & Tube Type (Hydrophilic + Gold Fin)
Refrigerant	Type		-	R410A
	Control		-	Electronic Expansion Valve
Fan Motor	Type			BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	56
Wiring Connections	Power Supply Cable (Included Earth)		No. x mm2 (AWG)	5C x 2.5 (12)
Casing Color			-	Warm Gray
Dimensions		W x H x D	mm	950 x 834 x 330
Net Weight			kg (lbs)	67.0 (147.7)
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	Ø 15.88 (5/8)
Piping Length		Max.	m (ft)	50 (164.0)
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.	m (ft)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.	℃ DB	-5 ~ 48
Accessories*				
PI485				PMNFP14A1
Note :				

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.

ACE GLOBAL AIRCON SERVICES LTD. MOMBASA

CONTROL SOLUTION





CENTRAL CONTROL SOLUTION

AC Ez Touch



- 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

PREMTB100

DRY CONTACT SOLUTION

Dry Contact

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

PDRYCB320

CONTROLLER LINE UP

Smart management for a variety of usages.

CENTRAL CONTROLLER

ACP 5



PACP5A000

- Max. 256 unit
- PC, Smartphone, Tablet control
- Yearly schedule
- BACnet / Modbus gateway
- Individual controller lock
- Operation log
- Floor map view

AC Smart 5



PACS5A000

- Max. 128 unit
- 10.2" touch
- Yearly schedule
- BACnet / Modbus gateway
- Individual controller lock
- Operation log
- Floor map view

AC Ez Touch



PACEZE000

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

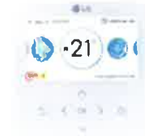
DUAL CONTROLLER

Standard



PQRCVCL0QW1

Standard III



PREMTB100
(4.3" colour)

Premium



PREMTA000
(5" touch colour)

Wireless R/C



PQWRHQ0FDB

Wi-Fi Modem



PWFMDD200
(For Indoor Unit)

BMS PROTOCOL GATEWAY

ACP LonWorks



PLNWKB000
(Indoor Unit -64)

ETC ACCESSORIES

Dry Contact

PDRYCB320
PDRYCB400

PI 485



PMNFP14A1
(For Outdoor Unit)

ACE GLOBAL AIRCONDITIONING SERVICES LTD. MUMBAI