LG
Life's Good

INVERTER DUCTED

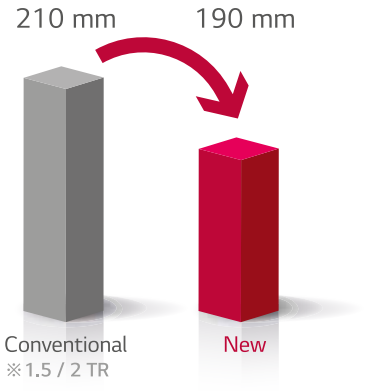
INNOVATIVE **AIR CONDITIONING** SOLUTIONS FOR NEXT GEN SPACES

Minimised Height | Easy Maintenance | High Energy Efficiency | Long Distance Piping | Higher Efficiency (BLDC) Motors | Black Fin

INVERTER LOW STATIC DUCT

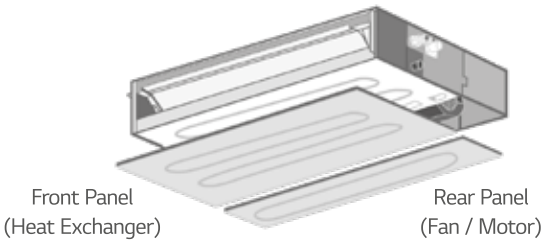
MINIMISED HEIGHT

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

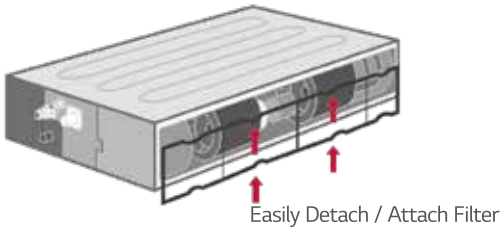


EASY SERVICE & MAINTENANCE

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 for fan/motor inspection.
The filter can be easily detached and re-attached even in limited spaces.



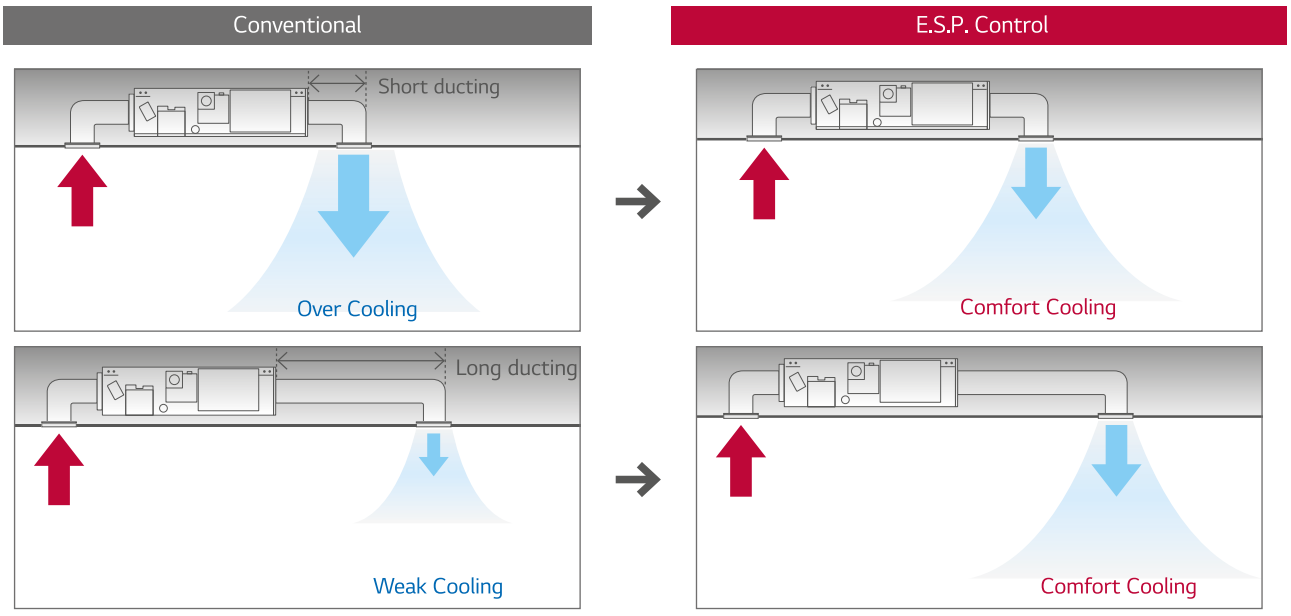
Selective panel separation



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 air flow.

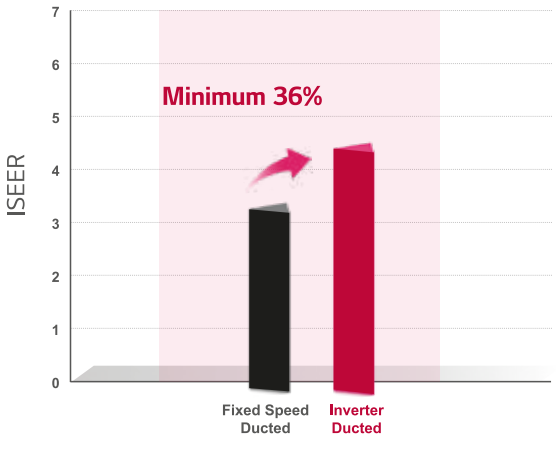


INVERTER HIGH STATIC DUCT

HIGH ENERGY EFFICIENCY

The new Inverter ducted units perform at much higher energy efficiency than conventional ducted splits, since they comprise of Inverter drives, BLDC motors, Electronic expansion valves and other efficiency components and measures explained hereafter.

A comparison of the 2 systems is given below:



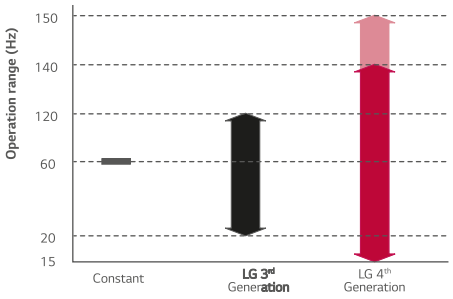
* ISEER value is simulated data as per BEE ISEER Regulation

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 efficiently than 4 by-pass valves

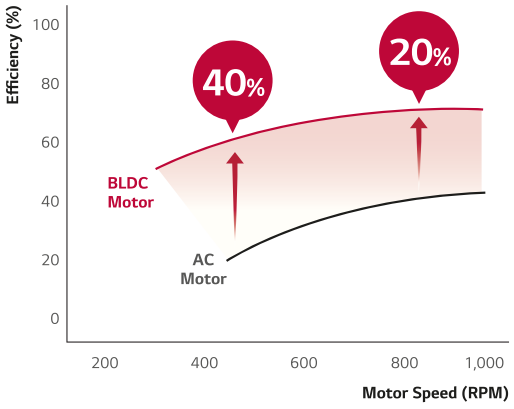


Extended Compressor Speed 150Hz

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

HIGHER EFFICIENCY WITH BRUSHLESS DC (BLDC) MOTORS

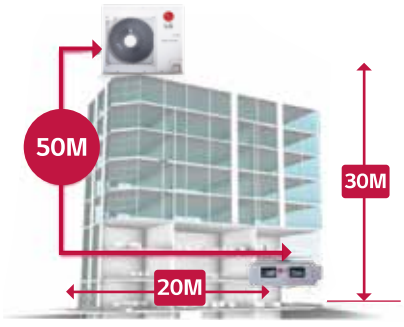
BLDC motors are more efficient than conventional AC motors used by others. BLDC motors are about 40% more efficient at lower speeds and about 20% more efficient at higher speeds.



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 suitable for tall and glass facade buildings also.



SPECIFICATIONS

INVERTER LOW STATIC DUCT

* Wireless Remote Controller Included

U18 A Chassis

U24 A Chassis

Low Static Duct		Nominal Capacity	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 ~ 7.05 ~ 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**	**ZBUQ24GL5A1**
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)
Cicuit 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	Tr	5.5 TR	8.5 TR	11 TR
Combination	Outdoor unit			JBUQ66LRA0	JBUQ102L8A0	JBUQ132L8A0
	Indoor unit			JBNQ66LRA0	JBNQ102L8A0	JBNQ132L8A0
Rated Capacity	Cooling	Min.-Rated-Max.	kW	5.27 ~ 17.58 ~ 19.34	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	1,230×380×590	1,562×460×688	1,562×460×688
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 × 834 × 330	950×1,380×330	1,090 × 1,625 × 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.

BLACK FIN FOR CORROSION RESISTANCE

ANTI CORROSION COATING

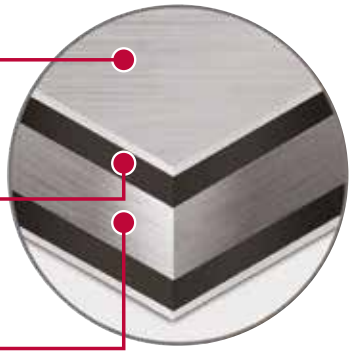
BLACK FIN

Black fin for corrosion resistance

Hydrophilic coating
The Hydrophilic coating minimises moisture build up 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)

LINE UP

INVERTER LOW STATIC DUCT R32

1.5 TR	2.0 TR

INVERTER HIGH STATIC DUCT

5.5 TR	8.5 TR	11.0 TR