



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



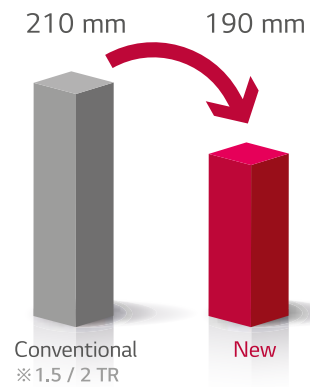
Black Fin

INVERTER LOW STATIC DUCT



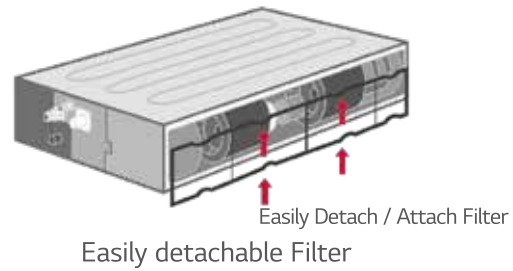
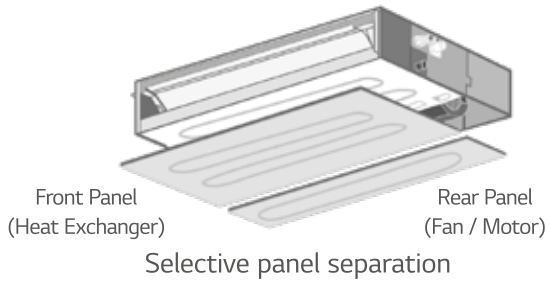
MINIMISED HEIGHT

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



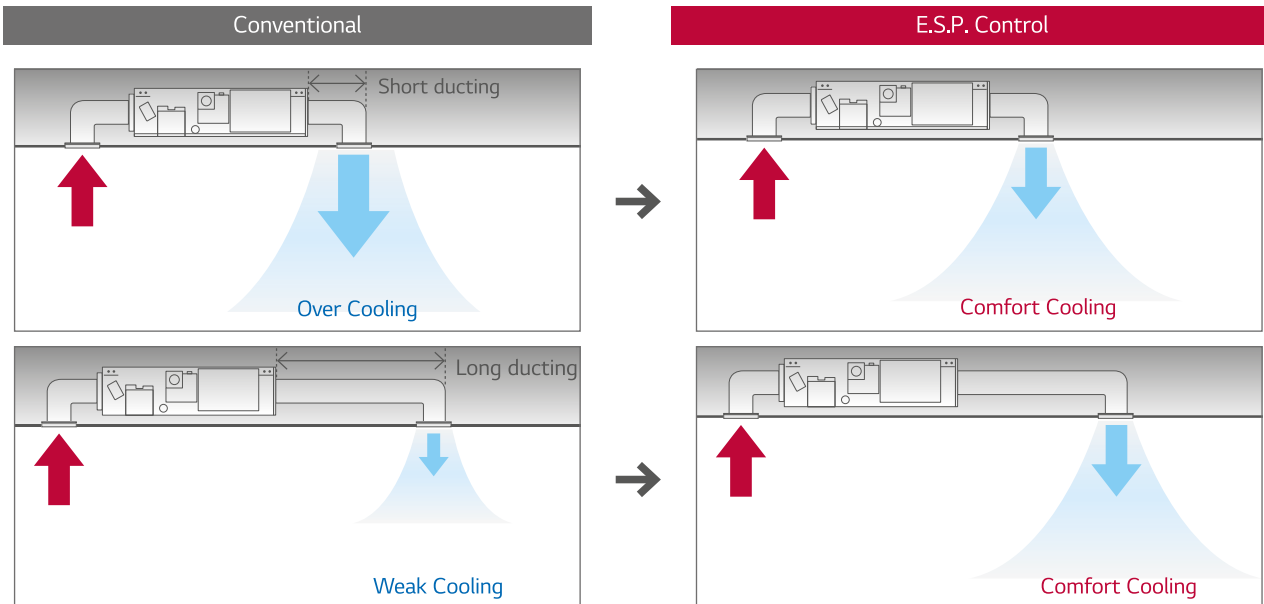
EASY SERVICE & MAINTENANCE

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.



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.



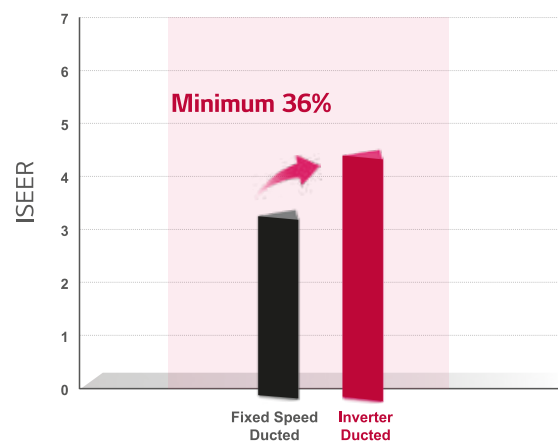
INVERTER HIGH STATIC DUCT



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

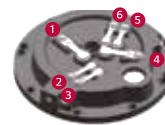
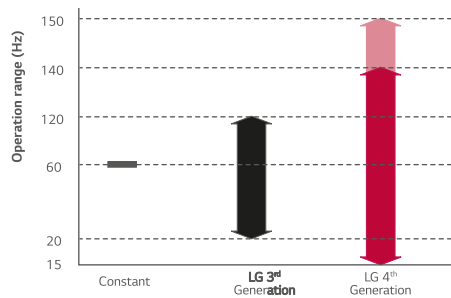
6 By-pass Valves

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



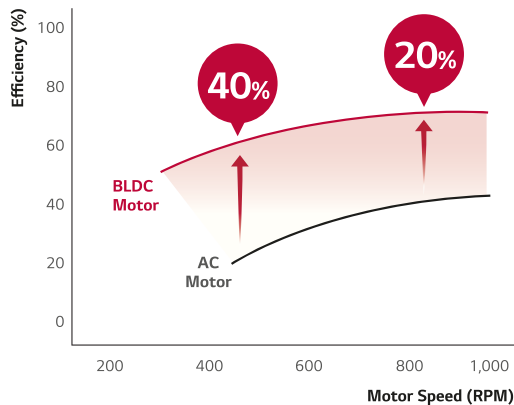
Extended Compressor Speed 150Hz

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



HIGHER EFFICIENCY WITH BRUSHLESS DC (BLDC) MOTORS

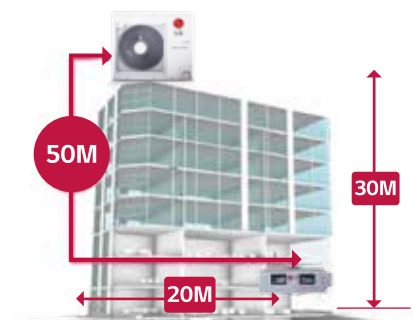
BLDC motors are more efficient than conventional AC motors used by others. BLDC motors are about 40% more efficient at lower speeds and about 20% more efficient at higher speeds.



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	m ³ /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 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 (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	
Accessories*					
Wi-Fi Module				PWFMD200	
PI485				PMNFP14A1	

Note:

Performances are based on the following condition:

- Cooling: Indoor Ambient Temp. 27°C DB/19°C WB, Outdoor Ambient Temp. 35°C DB/24°C WB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.

SPECIFICATIONS

INVERTER HIGH STATIC DUCT



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		m ³ /min	58.0 / 52.0 / 46.0	90.0 / 78.0 / 65.0	113.0 / 100.0 / 89.0
	H / M / L		ft ³ /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
Net Weight	Body			kg (lbs)		48 (105.82)
Piping Connections	Liquid			mm(inch)		Ø 9.52
	Gas			mm(inch)		Ø 19.05
	Drain (O.D. / I.D.)			mm		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
Sound Pressure Level	Cooling	Rated	dB(A)	55	57	63
Wiring Connections	Power Supply Cable (included Earth)		No. x mm ² (AWG)	5C x 2.5 (12)	5C x 4.0 (10)	5C x 6.0 (8)
	Power Cable (ODU-IDU)/Communication Cable		No. x mm ²	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
	Gas	Outer Dia.		mm(inch)		Ø 19.05
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)
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.		°C DB		-5 - 53
Accessories*						
Wi-Fi Module					PWFMD200	
PI485					PMNFP14A1	
Note :						

Note:

Performances are based on the following condition:

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BLACK FIN FOR CORROSION RESISTANCE

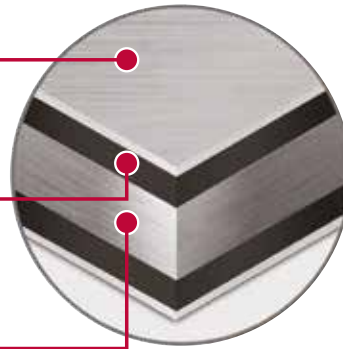


Black fin for corrosion resistance

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, TÜV.



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

LINE UP

INVERTER LOW STATIC DUCT



1.5 TR

2.0 TR



INVERTER HIGH STATIC DUCT

5.5 TR

8.5 TR

11.0 TR



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