



Libero-S Smart Inverter

High Performance Airflow

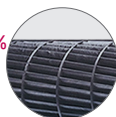
LG's unique high pressure blade fan and outdoor unit's high efficiency big wings, creates high efficiency cooling and heating air solution and 9m long power airflow.

1 High Pressure Blade Fan

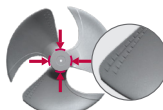
The irregular surface of the trip wire blade is able to reduce air resistance.



Indoor Unit Air flow rate improved by **15%** than conventional.



2 High Efficiency Big Wings



Improved power consumption by reducing the flow resistance.

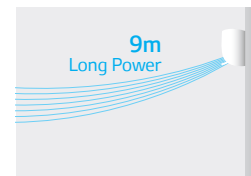
↑6.4%
Airflow rate improved by

↓30%
Fan weight reduced by

↓24%
Fan energy consumption reduced by

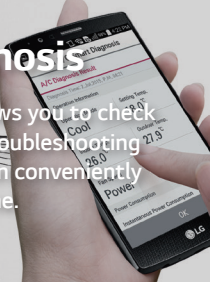
3 Powerful Long Airflow

The new larger fan and chassis cools an area up to 9meters away. Cooling response is faster and more powerful.



Smart Diagnosis

Smart Diagnosis allows you to check setup, installation, troubleshooting and other information conveniently from your smartphone.



1 How It Works



2 Benefit



Consumer Mode

- Check operational status of a product
- Save energy by monitoring key operation information and power consumption
- Easy-to-understand error messages
- Using the Maintenance Guide helps to improve device performance and expand product life



Service Mode

- Understanding the product
- Compare current and past usage data
- Maintain installation capabilities
- Reduce installation time by quick confirmation device operational status

Comfort Air

The comfort vane option conveniently sets the louvers to a preset position that deflects the supply air away from blowing directly onto room occupants.

1 Convenient Control

Enjoy utmost comfort in just one click.



Click the button once :
the vane goes to the highest position for indirect airflow.
(Optimised airflow for cooling)



Click the button twice :
the vane goes to the lowest position for indirect airflow.
(Optimised airflow for heating)



Customised Design for Maximum Comfort

LG air conditioner's slim and simple design guarantees easy installation and convenient cleaning.

1 Large Magic Display

Neat indoor unit design and comfortable function for checking your energy with the hidden display.



190% Increase

2 Easy to Open

Removing the dust filter on a conventional air conditioner takes two steps, but a Dual Protection Filter can be removed in one easy step.



3 Easy to Clean

The filter is designed for easy handling and quick cleaning, which lengthens its lifespan.



New Standard Plus

Smart Inverter

9K
P09EN
12K
P12EN

18K
P18EN
24K
P24EN



Active
Energy
Control



Energy
Display



2 Way
Swing



Jet Cool



Fast
Heating



Dual
Protection
Filter



Auto
Cleaning



Comfort
Air



Low Noise
19dB
*9k, 12k



Silence
Mode
3dB



Quick
& Easy
Installation

Optional



Wi-Fi
Ready



Smart
Diagnosis



Unit				9K	12K	18K	24K
Model Indoor Unit				P09EN.NSB	P12EN.NSB	P18EN.NS2	P24EN.NS2
Capacity	Cooling	Min/Rated/Max	W	890/2500/3700	890/3500/4040	900/5000/5525	900/6600/7420
	Heating +7°C	Min/Rated/Max	W	890/3200/4100	890/3800/5100	900/5800/6438	900/7500/8640
	Heating -7°C	Rated	W	3000	3600	3800	4850
Power Input	Cooling	Rated	W	670	1080	1587	2275
	Heating +7°C	Rated	W	840	1000	1611	2308
			W/W	3.73	3.24	3.15	2.90
EER				6.5	6.4	6.5	6.2
S.E.E.R.				2.5	3.5	5.0	6.6
P design C			kW	3.81	3.80	3.60	3.25
COP			W/W	4.0	4.0	4.0	3.9
S.C.O.P.				2.4	2.5	3.9	5.0
P design H			kW				
Energy Label	Cooling					A++	
	Heating			A+	A+	A+	A
Annual Energy Consumption	Cooling		kWh	134	191	269	372
	Heating		kWh	840	875	1365	1794
Sound Pressure	Cooling	S/L/M/H	dBa	19/27/35/41	19/27/35/41	31/34/39/44	31/34/42/47
	Heating	L/M/H	dBa	27/35/41	27/35/41	34/39/44	34/42/47
Sound Power	Cooling	High	dBa	59	59	60	65
	Cooling	S/L/M/H	m³/min	3.0 / 4.2 / 7.5 / 10.0	3.0 / 4.2 / 7.5 / 10.0	8.0 / 10.5 / 13.0	8.0 / 10.5 / 13.1
Air Flow Rate	Cooling	Max (Power)	m³/min	11.5	12.5	18.0	20.0
	Heating	L/M/H	m³/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	11.0 / 15.0 / 18.5
Dehumidification Rate			l/h	1.1	1.3	1.8	2.5
Running Current	Cooling	Rated/Max	A	3.0 / 6.0	4.7 / 6.0	6.9 / 9.0	10.1 / 14.0
	Heating	Rated/Max	A	3.7 / 7.0	4.5 / 7.0	7.1 / 9.5	10.4 / 14.0
Starting Current	Cooling	Rated	A	3.0	4.7	6.9	10.1
	Heating	Rated	A	3.7	4.5	7.1	10.4
Power Supply			Ø / V / Hz	1 / 220-240 / 50			
Circuit Breaker			A	15	15	20	25
Power Supply Cable			N x mm²	3*1.0	3*1.0	3*1.5	3*2.5
Power & Transmission Cable			N x mm²	4*1.0 (Including Earth)	4*1.0 (Including Earth)	4*1.0 (Including Earth)	4*1.0 (Including Earth)
Dimension			mm	837*302*189	837*302*189	998*330*210	998*330*210
Net Weight			kg	8.5	8.5	11.6	12.5
Fan Motor Output			W	30	30	30	60
Model Outdoor Unit				P09EN.UA3	P12EN.UA3	P18EN.UJ2	P24EN.UUE
Operation Range	Cooling	Min-Max	°CDB	-10-48	-10-48	-15-48	-15-48
	Heating	Min-Max	°CDB	-10-24	-10-24	-10-24	-10-24
Sound Pressure	Cooling	High	dBa	49	49	53	56
	Heating	High	dBa	50	50	55	57
Sound Power	Cooling	High	dBa	65	65	65	70
	Cooling	High	dBa	65	65	65	70
Air Flow Rate	Cooling	High	m³/min	27	27	35	50
	Cooling	High	m³/min	27	27	35	50
Piping	Length (Odu/Idu)	Min	m	3	3	3	3
	Max	Max	m	15	15	20	30
Piping Connection	Elevation (Odu/Idu)	Max	m	7	7	10	15
	Liquid	OD(Outside)	mm	6.35	6.35	6.35	6.35
Gas	OD(Outside)	inch	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)
	OD(Outside)	mm	9.52	9.52	12.7	15.88	15.88
Drain	OD(Outside)	inch	(3/8)	(3/8)	(3/8)	(1/2)	(5/8)
	OD(Outside)	mm	21.5	21.5	21.5	21.5	21.5
Refrigerant	OD(Outside)	inch	0.85	0.85	0.85	0.85	0.85
	Type			R410A	R410A	R410A	R410A
Charge at 7.5m		g		950	950	1200	1350
	Additional charge	g/m		20	20	20	30
Fan Motor Output			W	43	43	43	85
Compressor Type				1P Rotary	1P Rotary	Twin Rotary	Twin Rotary
Net Weight			kg		29	36.7	46
Dimension			mm		717*483*230	770*545*288	870*655*320

* S : Sleep / L : Low / M : Medium / H : High

** Specification, design and feature are subject to change without prior notice.

*** This product contains Fluorinated greenhouse gases (R410A).