

2016 **NEW** Libero-R Smart Inverter

Efficiency A++

LG RAC improved its compressor and heating capacity with the high density heat exchanger and the boost AC direct drive.

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.

Plasmaster Ionizer Plus

The powerful plasma ionizer protects you from odors and harmful substances in the air with over 3 million ions to sterilize the air passing through the air conditioner.

Smart Diagnosis

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

Perfect Convenience

The LG's revolutionary air conditioners provide maximum comfort for consumers.

1 High Efficient Compressor



Improve Efficiency

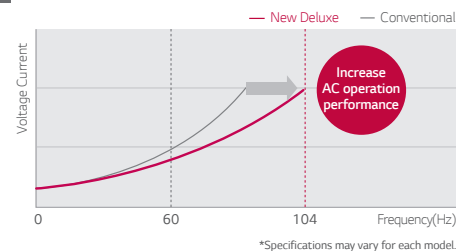
15Hz Reduced

Low Vibration Compressor

20% Reduced

Torque Control

2 Boost AC Direct Drive

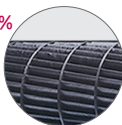


1 High Pressure Blade Fan

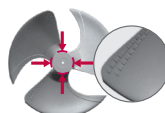
Applying trip wire blade, the irregular surface be able to reducing air resistance.



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



2 High Efficiency Big Wings



Improve power

Improved power consumption with reducing the flow resistance.

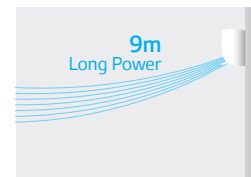
↑6.4%
Airflow rate improved by

↓30%
Fan weight reduced by

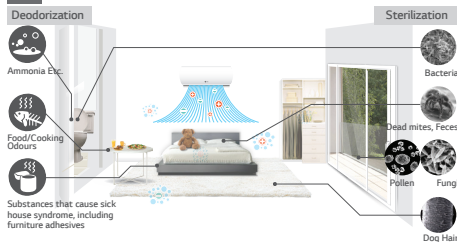
↓24%
Fan energy consumption reduced by

3 Powerful Long Airflow

The new larger fan and chassis that allow you to feel the air from up to 9meters away. Now cooling is faster and powerful and you can feel comfortable air sooner.



1 Pain Point



2 Benefit

Sterilize Bacteria (E.coli colon bacillus) over 99.9% in 30 min.
Sterilize Bacteria (Staphylococcus Aureus) over 99.6% in 60 min.
2.1 Odor strength decrease in 60 minutes.

Certificates	Institute	Odour Strength	1	2	3	4
Antibacterial Function of Plasmaster loniser Plus / Plasmaster loniser	Intertek	Offensive odour substance sensitivity	Mountain	Indoor	Small	Small
Deodorization function of Plasmaster loniser Plus / Plasmaster loniser	Intertek	Odour strength level	Light	Moderate	Strong	Very Strong
Ionizer Sterilization Test Report	Japanese National Sendai Medical Center		1.5	0	0	3.5

LG ionizer tech has been proven to sterilize by the real ionizer.

1 How It Works



2 Benefit



Consumer Mode

- Early check operational status of a product without a display or one that provides limited information
- Save energy by monitoring key operational information and power consumption
- Easy-to-understand error messages make reaching a solution and corresponding with the service center simple and convenient
- Using the Maintenance Guide helps to improve device performance and expand product life



Service Mode

- Understand the product better by easily confirming operational status and information
- Intuitively diagnose problems by comparing current and past usage data
- Maintain installation capabilities and reduce installation errors by quickly confirming device operational status

1 Comfort Air

This option conveniently sets an AC's louvers to a preset position so that outflowing air is directed away from room's occupants.

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

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



2 Larger Magic Display

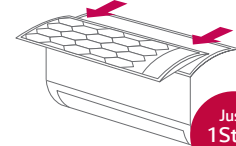
Neat indoor unit design and comfortable function of checking your energy with hidden display.



190% Increase

3 EZ Sliding Filter

Easy horizontal sliding filter when cleaning your air conditioners by 1 step.



Just 1Step sliding

2016 **NEW** Libero-R

Smart Inverter



9K
D09RN
12K
D12RN



18K
D18RN
24K
D24RN



Active
Energy
Control



Energy
Display



4 Way
Swing



Jet Cool



Fast
Heating



Plasmaster
Ionizer^{PLUS}



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				D09RN.NSJ	D12RN.NSJ	D18RN.NSK	D24RN.NSK
Model Outdoor Unit				D09RN.UL2	D12RN.UL2	D18RN.UL2	D24RN.UUE
Indoor Unit							
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	890/3200/5000	890/4000/6000	900/5800/6438	900/7500/8640
	Heating -7°C	Rated	W	3200	3800	3800	4850
Power Input	Cooling	Rated	W	556	898	1,562	2,275
	Heating +7°C	Rated	W	712	975	1,611	2,238
EER			W/W	4.5	3.9	3.2	2.9
S.E.E.R.				7.7	7.6	7.0	6.5
P design C			kW	2.5	3.5	5.0	6.6
COP			W/W	4.5	4.1	3.60	3.35
S.C.O.P.				4.6	4.6	4.2	4.0
P design H			kW	2.8	2.9	4.1	5.0
Energy Label	Cooling			A++	A++	A++	A++
	Heating			A++	A++	A+	A+
Annual Energy Consumption	Cooling		kWh	114	162	250	356
	Heating		kWh	853	883	1367	1770
Sound Pressure	Cooling	S/L/M/H	dBA	19/24/35/40	19/24/35/40	31/34/39/44	31/34/42/47
	Heating	L/M/H	dBA	24/35/40	24/35/40	34/39/44	34/42/47
Sound Power	Cooling	High	dBA	59	59	60	65
	Heating	High	dBA	59	59	60	65
Air Flow Rate	Cooling	S/L/M/H	m³/min	3.5/5.5/9.0/11.0	3.5/5.5/9.0/11.0	8.0/10.5/13.0/14.5	8.0/10.5/13.1/16.1
		Max (Power)	m³/min	13.0	13.0	18.0	20.0
	Heating	L/M/H	m³/min	6.5/9.0/11.0	6.5/9.0/11.0	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	2.5/6.0	4.0/6.0	6.9/9	10.1/14.0
	Heating	Rated/Max	A	3.2/7.0	4.3/7.0	7.1/9.5	10.4/14.0
Starting Current	Cooling	Rated	A	2.5	4.0	6.9	10.1
	Heating	Rated	A	3.2	4.3	7.1	10.4
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			A	15	15	20	25
Power Supply Cable			N x mm²	3*1.0	3*1.0	3 x 1.5	3 x 2.5
Power & Transmission Cable			N x mm²	4*1.0 (Including Earth)	4*1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 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	12.5	12.5
Fan Motor Output			W	30	30	60	60
Outdoor Unit							
Operation Range	Cooling	Min-Max	°CDB	-15~48	-15~48	-15~48	-15~48
	Heating	Min-Max	°CDB	-15~24	-15~24	-10~24	-10~24
Sound Pressure	Cooling	High	dBA	47	47	53	56
	Heating	High	dBA	48	48	55	57
Sound Power	Cooling	High	dBA	65	65	65	70
	Heating	High	dBA	65	65	65	70
Air Flow Rate	Cooling	High	m³/min	35	35	35	50
	Heating	High	m³/min	35	35	35	50
Piping	Length (Odu/Idu)	Min	m	3	3	-	-
		Max	m	20	20	20	30
	Elevation (Odu/Idu)	Max	m	10	10	10	15
Piping Connection	Liquid	OD(Outside)	mm	6.35	6.35	6.35	6.35
			inch	(1/4)	(1/4)	(1/4)	(1/4)
	Gas	OD(Outside)	mm	9.52	9.52	12.7	15.88
			inch	(3/8)	(3/8)	(1/2)	(5/8)
	Drain	OD(Outside)	mm	21.5	21.5	21.5	21.5
			inch	0.85	0.85	0.85	0.85
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge at 7.5m		g	1,000	1,000	1250	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	31	31	35.5	46.1
Dimension			mm	770*545*288	770*545*288	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).