

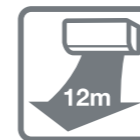
LIBERO

INVERTER V

Mighty Efficiency

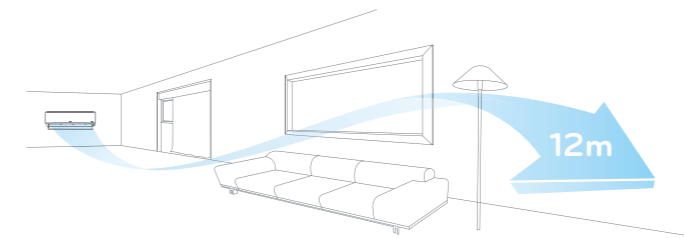


LG Electronics' products have led the global air conditioner market with excellent performance and innovative design.



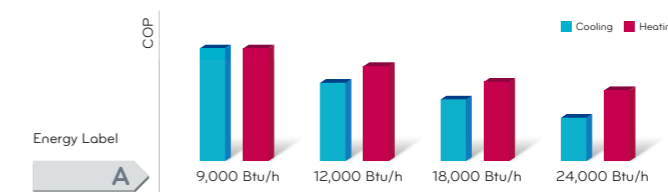
Powerful Air Flow

Keep cool this summer with our new larger fans that allow you to feel the air up to 12 meters away! This means that cooling is fast and powerful, allowing you to feel comfortable sooner, as the cool air reaches you. (Available models:CS18AQ/CS24AQ)



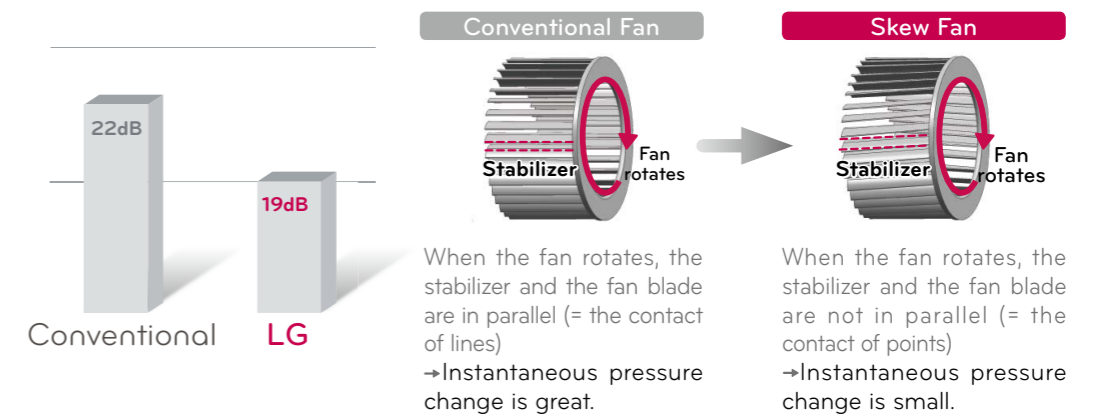
High Efficiency

LIBERO received AA energy label (cooling/heating) for 9k to 24k respectively



Low Noise Level

The indoor unit has a quiet operational noise level in the sleep mode to offer you peace and quiet for the bedroom or office. For example, LG model CS09AQ, CS12AQ in sleep mode is only 19dB. In addition, the outdoor units have reduced vibration and noise thanks to a super quiet fan and motor.



LIBERO-R

INVERTER V Mighty Efficiency

LIBERO-E

INVERTER V Mighty Efficiency

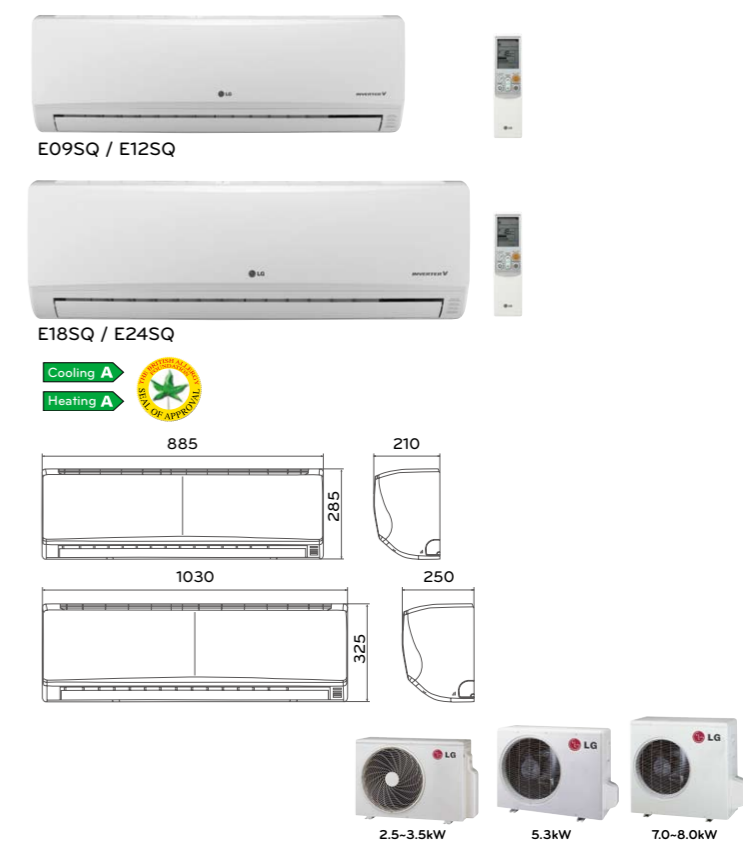
CS09AQ
CS12AQ
CS18AQ
CS24AQ

- High Efficiency
- Optimized Cooling and Heating
- Virus & Allergy Safe filter
- Quick & Easy Installation
- Plasma +Triple Filter
- Compatible with Inverter Multi System



E09SQ
E12SQ
E18SQ
E24SQ

- Optimized Cooling and Heating
- Virus & Allergy Safe filter
- Triple Air Filter
- Quick & Easy Installation
- Low Noise • Auto Cleaning
- Compatible with Inverter Multi System



Specifications

Model	INDOOR UNIT OUTDOOR UNIT	CS09AQ NBO S09AQU UBO	CS12AQ NBO S12AQU UBO	CS18AQ NCO S18AQU UCO	CS24AQ NCO S24AQU UCO
Cooling Capacity	kW	0.89-2.50-3.70	0.89-3.50-4.04	0.9 - 5.2 - 6.0	0.90-7.03-8.65
Heating Capacity	kW	0.89-3.20-5.00	0.89-4.00-6.00	0.9 - 6.3 - 9.0	0.90-8.44-11.40
Low Temp. Heating Capacity(-7°C)	kW	3.20	3.80	5.50	8.50
Power Input	Cooling/Heating	550/700	880/960	1,500/1,650	2,190/2,330
EER	W/W	4.55	3.98	3.47	3.21
COP	W/W	4.6	4.17	3.82	3.62
Annual energy consumption	Cooling	275	440	750	1095
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1/220-240/50
Air Flow Rate	Indoor,Max Outdoor,Max	12 33	12 33	19.5 60	22 60
Sound Pressure Level	Indoor,H/M/L Outdoor,Max	38 / 33 / 23 / 19	39 / 33 / 23 / 19	42/40/35/29	45/40/35/29
Sound Power Level	Indoor,Max Outdoor,Max	45 57	45 57	51 63	53 65
Operation Range	Cooling(Outdoor) Heating(Outdoor)	-10-48 -10-24	-10-48 -10-24	-10-48 -10-24	-10-48 -10-24
Compressor	Type	Rotary	1P Rotary	Twin Rotary	Twin Rotary
Fan(Indoor)	Motor Output	W	20	20	30
Fan(Outdoor)	Motor Output	W	43	85	124
Running Current	Cooling/Heating	2.4 / 3.1	4.0/4.3	6.6/7.3	9.8/10.4
Starting Current	Cooling/Heating	2.4 / 3.1	4.0/4.3	6.6/7.3	9.8/10.4
Max Current	Cooling/Heating	10.0	10.0	12.5	19.0
Circuit Breaker*	A	15	15	20	25
Power Supply Cable	No.*mm ²	3*1.0	3*1.0	3*1.5	3*2.5
Power and Transmission Cable No.*mm ²	No.*mm ²	4x1.0 (Including Earth)	4x1.0	4x1.0	4x1.0
Refrigerant & Charge (at 7.5 m)	g	R410A, 1,000	R410A, 1,000	R410A, 1,350	R410A, 1,800
Additional Refrigerant charge	g/m	20	20	20	35
Piping Connections	Liquid Side Gas Side	6.35(1/4) 9.52(3/8)	6.35(1/4) 9.52(3/8)	6.35(1/4) 12.7(1/2)	9.52(3/8) 15.88(5/8)
Piping Length (Min/Max)	m	2 / 20	2 / 20	- / 20	- / 30
Max. Elevation Difference	m	10	10	10	15
Drain Hose(O.D / I.D.)	mm	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0
Dimensions	Indoor (WxHxD) Outdoor (WxHxD)	885x285x210 770x545x288	885x285x210 770x545x288	1,030x325x250 870x655x320	1,030x325x250 870x800x320
Net Weight	Indoor Outdoor	11 34	11 34	17 51	17 60

Note: 1. Capacities are based on the following conditions:
Cooling: - Indoor Temperature 27°C DB / 19°C WB Heating: - Indoor Temperature 20°C DB / 15°C WB
 - Outdoor Temperature 35°C DB / 24°C WB - Outdoor Temperature 7°C DB / 6°C WB
2. Annual energy consumption: based on average use of 500 running hours per year at nominal condition

Specifications

Model	INDOOR UNIT OUTDOOR UNIT	E09SQ NBO E09SQU UBO	E12SQ NBO E12SQU UBO	E18SQ NCO S18AQU UCO	E24SQ NCO S24AQU UCO
Cooling Capacity	kW	0.89-2.50-3.70	0.90-3.50-4.04	0.90 - 5.20 - 6.00	0.90 - 7.03 - 8.65
Heating Capacity	kW	0.89-3.20-4.10	0.89-4.00-5.10	0.90 - 6.30 - 9.00	0.90 - 8.44 - 11.40
Low Temp. Heating Capacity(-7°C)	kW	3.00	3.60	5.50	8.50
Power Input	Cooling/Heating	600 / 770	1,010 / 1,050	1,500 / 1,650	2,190 / 2,330
EER	W/W	4.17	3.47	3.47	3.21
COP	W/W	4.16	3.81	3.82	3.62
Annual energy consumption	Cooling	300	505	750	1095
Power Supply	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Air Flow Rate	Indoor,Max Outdoor,Max	12 27	12 27	19.5 50	22 60
Sound Pressure Level	Indoor,H/M/L Outdoor,Max	38 / 33 / 23 / 19	39 / 33 / 23 / 19	42 / 40 / 35 / 29	45 / 40 / 35 / 29
Sound Power Level	Indoor,Max Outdoor,Max	47 57	47 57	51 63	53 65
Operation Range	Cooling(Outdoor) Heating(Outdoor)	-5-48 -10-24	-5-48 -10-24	-10-48 -10-24	-10-48 -10-24
Compressor	Type	Rotary	Rotary	Twin Rotary	Twin Rotary
Fan(Indoor)	Motor Output	W	20	30	30
Fan(Outdoor)	Motor Output	W	43	84	124
Running Current	Cooling/Heating	2.66 / 3.40	4.60 / 4.65	6.6 / 7.3	9.8 / 10.4
Starting Current	Cooling/Heating	2.66 / 3.40	4.60 / 4.65	6.6 / 7.3	9.8 / 10.4
Max Current	Cooling/Heating	10.0	10.0	12.5	19.0
Circuit Breaker*	A	15	15	20	25
Power Supply Cable	No.*mm ²	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power and Transmission Cable No.*mm ²	No.*mm ²	4x1.0 (Including Earth)	4x1.0 (Including Earth)	4x1.0 (Including Earth)	4x1.0 (Including Earth)
Refrigerant & Charge (at 7.5 m)	g	R410A, 900(31.75)	R410A, 900	R410A, 1,350	R410A, 1,800
Additional Refrigerant charge	g/m	20(0.22)	20	20	35
Piping Connections	Liquid Side Gas Side	6.35(1/4) 9.52(3/8)	6.35(1/4) 9.52(3/8)	6.35(1/4) 12.70(1/2)	9.52(3/8) 15.88(5/8)
Piping Length (Min/Max)	m	3(9.84) / 15(49.2)	3 / 15	- / 20	- / 30
Max. Elevation Difference	m	7(23.0)	7	15	15
Drain Hose(O.D / I.D.)	mm	21.5 / 16.0 (0.85 / 0.63)	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0
Dimensions	Indoor (WxHxD) Outdoor (WxHxD)	885x285x210 717x483x230	885x285x210 717x483x230	1,030x325x250 870x655x320	1,030x325x250 870x800x320
Net Weight	Indoor Outdoor	11 28	11 28	17 46	17 60

Note: 1. Capacities are based on the following conditions:
Cooling: - Indoor Temperature 27°C DB / 19°C WB Heating: - Indoor Temperature 20°C DB / 15°C WB
 - Outdoor Temperature 35°C DB / 24°C WB - Outdoor Temperature 7°C DB / 6°C WB
2. Annual energy consumption: based on average use of 500 running hours per year at nominal condition