

LIBERO-E

INVERTER V

Mighty Efficiency

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



E09SQ / E12SQ



E18SQ / E24SQ



Specifications

Model	INDOOR UNIT		E09SQ		E12SQ		E18SQ		E24SQ	
	INDOOR UNIT	OUTDOOR UNIT	NBO	UBO	NBO	UBO	NCO	UCO	NCO	UCO
Cooling Capacity			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			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)			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			4.17		3.47		3.47		3.21	
COP			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	
Air Flow Rate	Indoor,Max	m ³ /min	12		12		19.5		22	
	Outdoor,Max	m ³ /min	27		27		50		60	
Sound Pressure Level	Indoor,H/M/L	dB(A)±3	38 / 33 / 23 / 19		39 / 33 / 23 / 19		42 / 40 / 35 / 29		45 / 40 / 35 / 29	
	Outdoor,Max	dB(A)±3	47		47		51		53	
Sound Power Level	Indoor,Max	dB(A)	57		57		63		65	
	Outdoor,Max	dB(A)	65		65		70		70	
Operation Range	Cooling(Outdoor)	°C	-5-48		-5-48		-10-48		-10-48	
	Heating(Outdoor)	°C	-10-24		-10-24		-10-24		-10-24	
Compressor	Type		Rotary		Rotary		Twin Rotary		Twin Rotary	
Fan(Indoor)	Motor Output	W	20		20		30		30	
Fan(Outdoor)	Motor Output	W	43		43		84		124	
Running Current	Cooling/Heating	A	2.66 / 3.40		4.60 / 4.65		6.6 / 7.3		9.8 / 10.4	
Starting Current	Cooling/Heating	A	2.66 / 3.40		4.60 / 4.65		6.6 / 7.3		9.8 / 10.4	
Max Current	Cooling/Heating	A	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	mm(in)	6.35(1/4)		6.35(1/4)		6.35(1/4)		9.52(3/8)	
	Gas Side	mm(in)	9.52(3/8)		9.52(3/8)		12.70(1/2)		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)	mm	885x285x210		885x285x210		1,030x325x250		1,030x325x250	
	Outdoor (WxHxD)	mm	717x483x230		717x483x230		870x655x320		870x800x320	
Net Weight	Indoor	kg	11		11		17		17	
	Outdoor	kg	28		28		46		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

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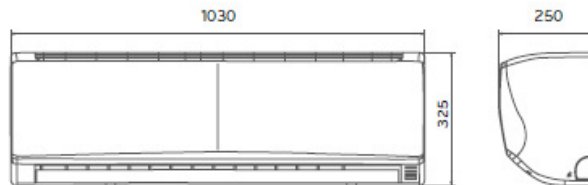
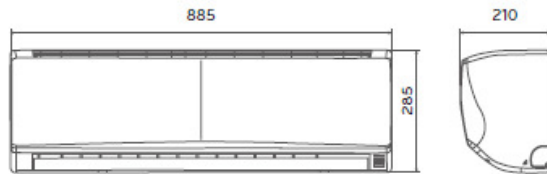
E09SQ / E12SQ



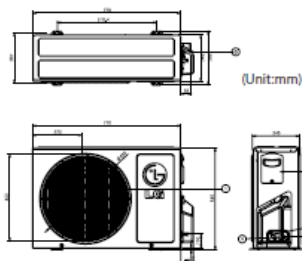
E18SQ / E24SQ

INDOOR UNIT

E09SQ SBO E12SQ SBO
E18SQ SCO E24SQ SCO

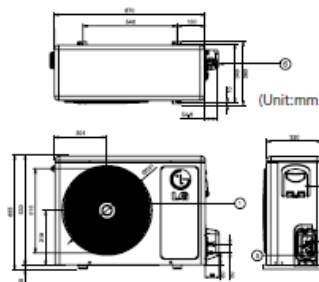


LIBERO-E
E09AQU UBO
E12AQU UBO



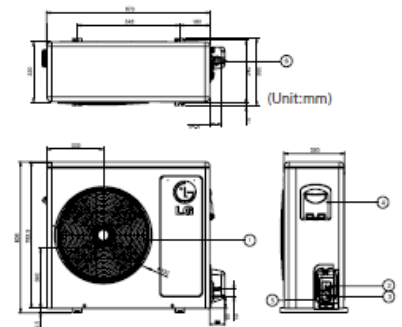
No.	Part Name
1	Air discharge grille
2	Gas pipe connection
3	Liquid pipe connection
4	Power & Transmission connection
5	Earth screw
6	SVC valve cover

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No.	Part Name
1	Air discharge grille
2	Gas pipe connection
3	Liquid pipe connection
4	Power & Transmission connection
5	Earth screw
6	SVC valve cover

S24AQU uco **LIBERO-E**



No.	Part Name
1	Air discharge grille
2	Gas pipe connection
3	Liquid pipe connection
4	Power & Transmission connection
5	Earth screw
6	SVC valve cover