48V DC MARINE AIR CONDITIONERS — TECHNICAL DATA SHEET

Self-contained variable-speed units · Evolution Line

TECHNICAL SPECIFICATIONS

Specification	SDC10V48E	SDC18V48E
Voltage	48 V DC	48 V DC
Max capacity in heating	11,000 BTU/h (3.2 kW)	18,900 BTU/h (5.5 kW)
Maximum absorbed power	710 W	1,090 W
Max current	14.8 A	22.7 A
Max capacity in cooling	10,700 BTU/h (3.1 kW)	18,200 BTU/h (5.3 kW)
Max power consumption (cooling)	670 W	950 W
Maximum current (cooling)	14.0 A	19.8 A
Capacity in ECO mode (cooling)	4,500 BTU/h (1.3 kW)	5,000 BTU/h (1.5 kW)
Power consumption in ECO mode (cooling)	200 W	190 W
Current in ECO mode (cooling)	4.2 A	4.0 A
Width	400 mm (15.7")	470 mm (18.5")
Height	300 mm (11.8")	300 mm (11.8")
Depth	300 mm (11.8")	330 mm (13.0")
Weight	23 kg (50.7 lb)	28 kg (61.7 lb)
Electrical panel dimensions (W × H × D)	240 × 250 × 108 mm (9.4 × 9.8 × 4.3")	240 × 250 × 108 mm (9.4 × 9.8 × 4.3")
Minimum air outlet duct diameter	125 mm (5")	152 mm (6")
Seawater connection	16 mm (1/2")	19 mm (3/4")
Condensate drain connection	16 mm (1/2")	16 mm (1/2")
Seawater flow / pressure drop (max)	1.2 m^3/h – 4.2 mH_2O (5.3 gpm – 13.8 ftH_2O)	1.5 m^3/h – 5.4 mH_2O (6.6 gpm – 17.7 ftH_2O)
Seawater flow / pressure drop (min)	0.8 m^3/h – 1.9 mH_2O (3.5 gpm – 6.2 ftH_2O)	1.3 m^3/h – 4.2 mH_2O (5.7 gpm – 13.8 ftH_2O)
Refrigerant charge	0.25 kg (8.8 oz) R410A	0.375 kg (13.2 oz) R410A

Nominal data. Values stated at maximum power.

CONSUMPTION AND PERFORMANCE IN TROPICAL CONDITIONS

Values measured with seawater at 32 °C (89.6 °F).

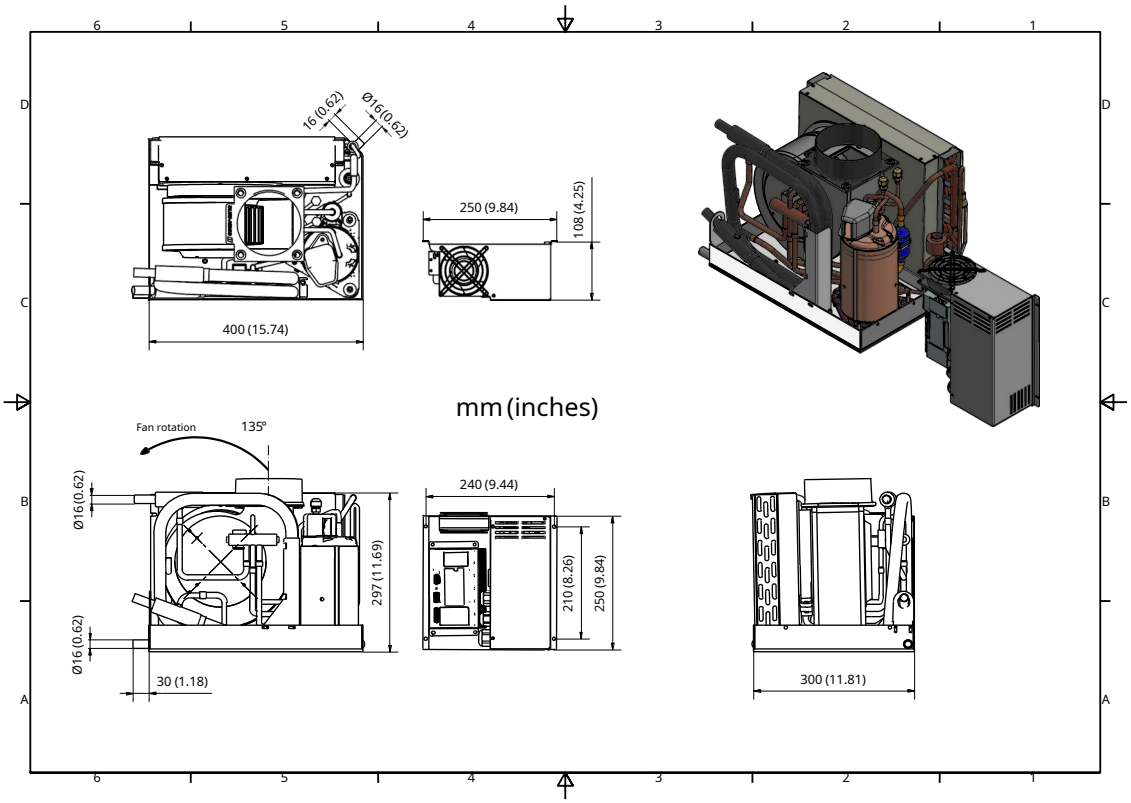
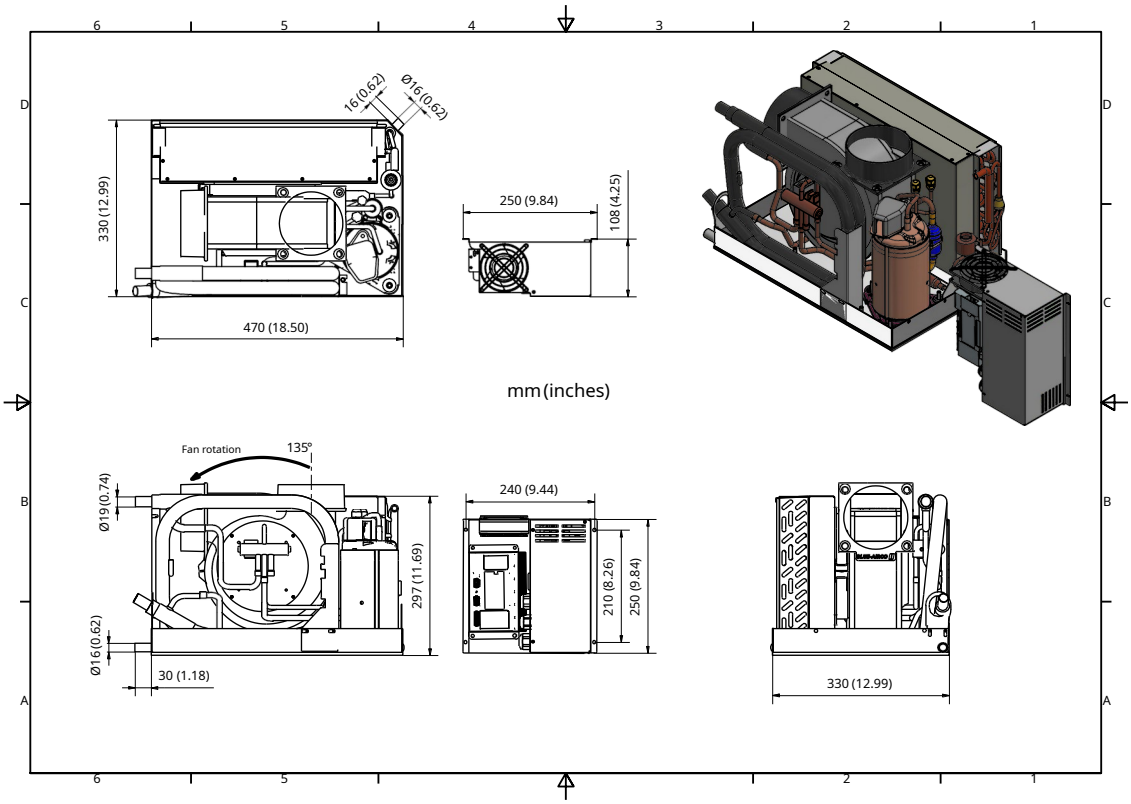
SDC10V48E

Compressor speed	Cooling capacity (BTU/h)	Power consumed (W)	Current drawn (A)
100%	10,700	670	14.0
90%	10,000	590	12.3
80%	9,600	536	11.2
65%	8,200	420	8.8
50%	7,100	330	6.9
40%	6,000	270	5.6
25% ECO	4,500	200	4.2

SDC18V48E

Compressor speed	Cooling capacity (BTU/h)	Power consumed (W)	Current drawn (A)
100%	18,200	950	19.8
80%	16,000	750	15.6
70%	14,700	650	13.5
55%	12,600	520	10.8
40%	9,200	370	7.7
30%	7,200	280	5.8
20% ECO	5,000	190	4.0

SDC10V48E



SDC18V48E