24V DC MARINE AIR CONDITIONERS — TECHNICAL DATA SHEET

Self-contained variable-speed units · Evolution Line

TECHNICAL SPECIFICATIONS

Specification	SDC10V24E	SDC18V24E
Voltage	24 V DC	24 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	29.6 A	45.4 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)	27.9 A	39.6 A
Capacity in ECO mode (cooling)	5,800 BTU/h (1.7 kW)	6,400 BTU/h (1.9 kW)
Power consumption in ECO mode (cooling)	250 W	250 W
Current in ECO mode (cooling)	10.4 A	10.4 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	0.30 kg (10.6 oz) R410A	0.40 kg (14.1 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).

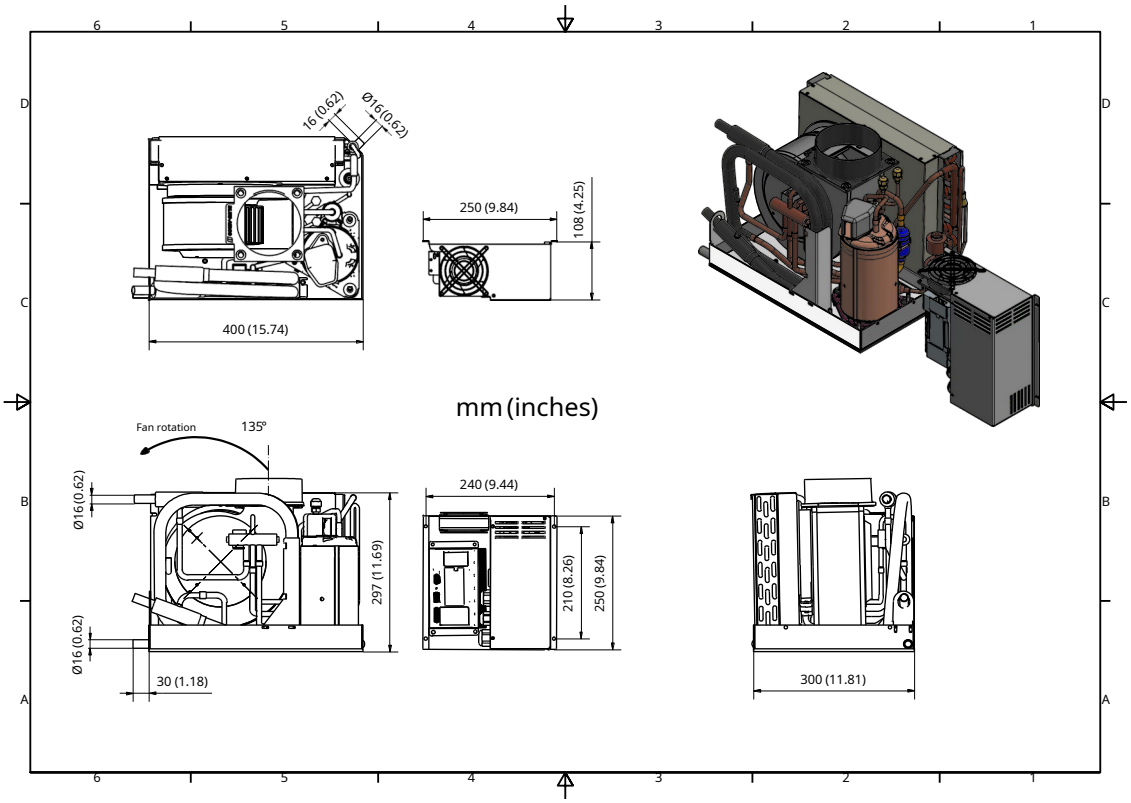
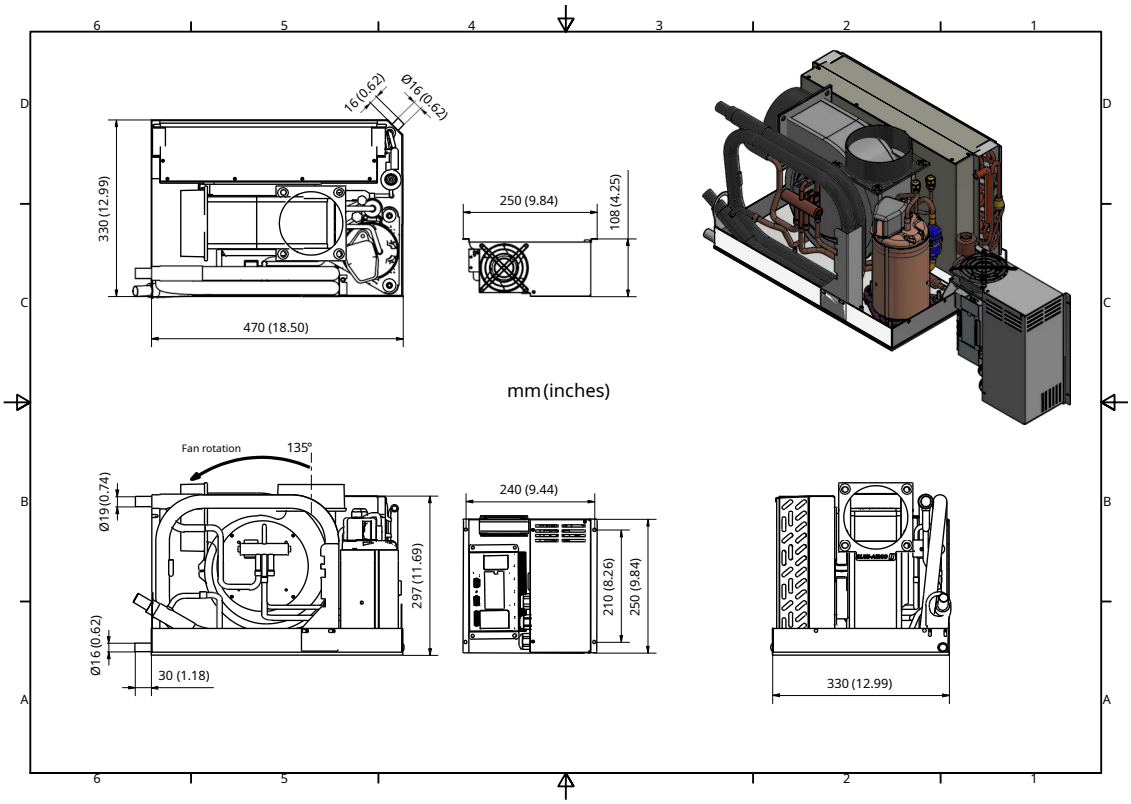
SDC10V24E

Compressor speed	Cooling capacity (BTU/h)	Power consumed (W)	Current drawn (A)
100%	10,700	670	27.9
90%	10,000	590	24.6
80%	9,600	536	22.3
65%	8,200	420	17.5
50%	7,100	330	13.8
40%	6,000	270	11.3
35% ECO	5,800	250	10.4

SDC18V24E

Compressor speed	Cooling capacity (BTU/h)	Power consumed (W)	Current drawn (A)
100%	18,200	950	39.6
80%	16,000	750	31.3
70%	14,700	650	27.1
55%	12,600	520	21.7
40%	9,200	370	15.4
30%	7,100	280	11.7
25% ECO	6,400	250	10.4

SDC10V24E



SDC18V24E