

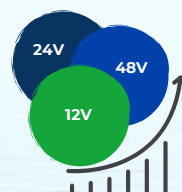


# TIDESMARINE

INTERNATIONAL UK

## DC VARIABLE SPEED SELF-CONTAINED MARINE AIR-CONDITIONERS

Unique in the marine market



Using technology and innovation to bring low energy  
climate control on board



\* Special mention for comfort & entertainment afloat **DAME** DESIGN AWARDS 2023

\* **IBEX** nominees

[www.tidesmarine.co.uk](http://www.tidesmarine.co.uk)



## Our range



**Product type :**  
**Full DC variable speed self-contained unit**  
*(unique in the marine market)*

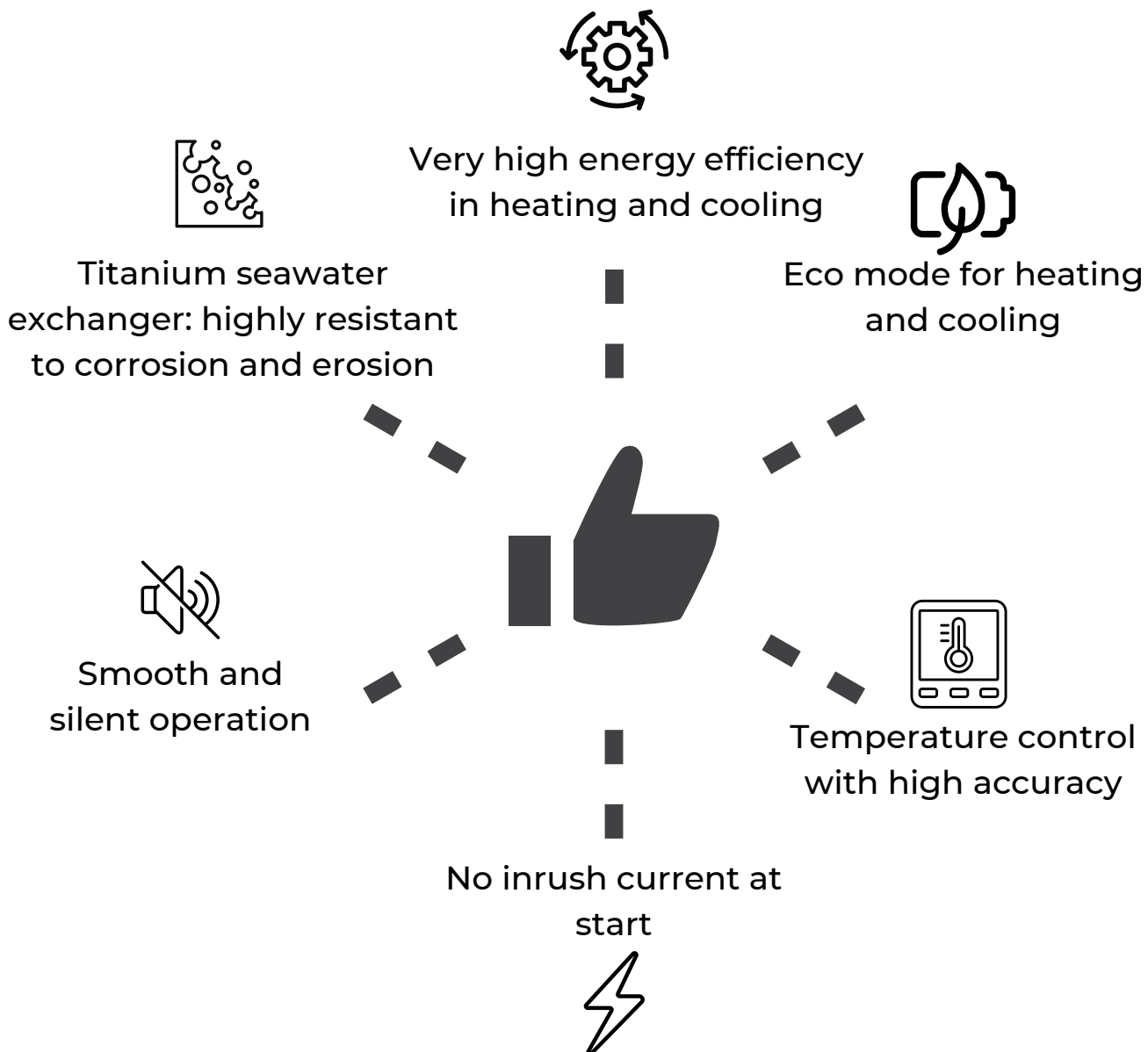


The 12 V version allows small boats to be air-conditioned thanks to the very low consumption and the ECO function.



Each air conditioning unit is tested with helium before packaging to ensure integrity, permitting the detection of the smallest gas leakage. Electrical safety tests followed by heating and cooling performance tests are also carried out on all units prior to shipping.

# Key benefits





## **Quality**

The units are very reliable employing high quality components and BLDC motors suitable for severe working conditions (min seawater temperature in heating 2°C, max seawater temperature in cooling 45 °C). The units are designed and manufactured in Italy.



## **Energy saving**

The BLDC motors together with highly efficient heat exchangers and electronic expansion valve minimise the power consumption in every working condition.

Our advanced technology enables our customers to reduce their environmental impact and contributes to a more sustainable society.



## **No peak current at start**

The starting current is very low thanks to the accurate control of the starting compressor torque. Compressor starts very smoothly at low frequency.



## **Comfort**

The electronic control and variable frequency drive allow to finely adjust the cooling and heating capacity maintaining the desired ambient temperature without fluctuations. BLDC motors, sound insulations and accurate design of ventilation sections make the units very silent in every working condition.



## **Easy installation**

Thanks to the compactness and low weight the units are suitable for all types of boat, new constructions and refitting.

# Technical data and features V12

Model	SDC08V12		SDC12V12	
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 "
Weight	22 kg	48.5 lb	28 kg	61.7 lb
Electrical box dims	250 x 250 x 109 mm	9.8" x 9.8" x 4.3"	250 x 250 x 109 mm	9.8" x 9.8" x 4.3"
Voltage	12VDC	12VDC	12VDC	12VDC
Max cooling capacity	2.5 kW	8,400 BTU/h	3.6 kW	12,400 BTU/h
Max heating capacity	2.3 kW	8,000 BTU/h	3.4 kW	11,600 BTU/h
Max input power	540 W	540 W	600 W	600 W
Max current	47 A	47 A	50 A	50 A
Current ECO mode cooling	13 A	13 A	13 A	13 A
Input power ECO mode cooling	160 W	160 W	150 W	150 W
Max seawater flow-pressure loss	1,2 m3/h - 4,2 m H2O	5.3 gpm - 13.8 feet H2O	1,3 m3/h - 4,5 m H2O	5.7 gpm - 14.7 feet H2O
Min seawater flow-pressure loss	0,8 m3/h - 1,9 m H2O	3.5 gpm - 6.2 feet H2O	0,9 m3/h - 2 m H2O	4 gpm - 6.6 feet H2O
Min air exit duct diameter	125 mm	5"	125 mm	5"
Seawater connection	16 mm	1/2"	19 mm	3/4"
Drain connection	16 mm	1/2"	16 mm	1/2"
R410A refrigerant charge	0.28 kg	9.9 oz	0.35 kg	12.3 oz

# Performance V12

self-contained unit	compressor speed	cooling capacity BTU/h	input power W	input current A
SDC08V12	max	8 400	420	35
	med	6 700	290	24
	min (ECO)	4 200	160	13
SDC12V12	max	12 400	530	44
	med	8 200	330	28
	min (ECO)	4 700	150	13

Tested at 32°C (89.6°F) seawater temperature (tropical conditions)





# Technical data and features V24

Model	SDC10V24		SDC18V24	
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"
Weight	23 kg	50.7 lb	28 kg	61.7 lb
Electrical box dims	250 x 250 x 109 mm	9.8" x 9.8" x 4.3"	250 x 250 x 109 mm	9.8" x 9.8" x 4.3"
Voltage	24VDC	24VDC	24VDC	24VDC
Max cooling capacity	3.1 kW	10,700 BTU/h	5.3 kW	18,200 BTU/h
Max heating capacity	3.2 kW	11,000 BTU/h	5.5 kW	18,900 BTU/h
Max input power	820 W	820 W	1280 W	1280 W
Max current	34 A	34 A	54 A	54 A
Current ECO mode cooling	11 A	11 A	11 A	11 A
Input power ECO mode cooling	270 W	270 W	270 W	270 W
Max seawater flow-pressure loss	1,2 m3/h - 4,2 m H2O	5.3 gpm - 13.8 feet H2O	1,5 m3/h - 5.4 m H2O	6.6 gpm - 17.7 feetH2O
Min seawater flow-pressure loss	0,8 m3/h - 1,9 m H2O	3.5 gpm - 6.2 feet H2O	1,3 m3/h - 4,2 m H2O	5,7 gpm - 13.8 feet H2O
Min air exit duct diameter	125 mm	5"	152 mm	6"
Seawater connection	16 mm	1/2"	19 mm	3/4"
Drain connection	16 mm	1/2"	16 mm	1/2"
R410A refrigerant charge	0,28 kg	9.9 oz	0,38 kg	13.2 oz

# Performance V24

self-contained unit	compressor speed	cooling capacity BTU/h	input power W	input current A
SDC10V24	max	10 700	790	33
	med	8 200	450	19
	min (ECO)	5 800	270	11
SDC18V24	max	18 200	1100	46
	med	12 600	600	25
	min (ECO)	6 300	270	11

Tested at 32°C (89.6°F) seawater temperature (tropical conditions)



# Technical data and features V48

Model	SDC10V48		SDC18V48	
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"
Weight	23 kg	50.7 lb	28 kg	61.7 lb
Electrical box dims	250 x 250 x 109 mm	9.8" x 9.8" x 4.3"	250 x 250 x 109 mm	9.8" x 9.8" x 4.3"
Voltage	48VDC	48VDC	48VDC	48VDC
Max cooling capacity	3.1 kW	10,700 BTU/h	5.3 kW	18,200 BTU/h
Max heating capacity	3.2 kW	11,000 BTU/h	5.5 kW	18,900 BTU/h
Max input power	820 W	820 W	1280 W	1280 W
Max current	17 A	17 A	27 A	27 A
Current ECO mode cooling	4 A	4 A	5 A	5 A
Input power ECO mode cooling	200 W	200 W	220 W	220 W
Max seawater flow-pressure loss	1,2 m3/h - 4,2 m H2O	5.3 gpm - 13.8 feet H2O	1,5 m3/h - 5.4 m H2O	6.6 gpm - 17.7 feetH2O
Min seawater flow-pressure loss	0,8 m3/h - 1,9 m H2O	3.5 gpm - 6.2 feet H2O	1,3 m3/h - 4,2 m H2O	5,7 gpm - 13.8 feet H2O
Air exit duct diameter	125 mm	5"	152 mm	6"
Seawater connection	16 mm	1/2"	19 mm	3/4"
Drain connection	16 mm	1/2"	16 mm	1/2"
R410A refrigerant charge	0,28 kg	9.9 oz	0,38 kg	13.2 oz

# Performance V48

self-contained unit	compressor speed	cooling capacity BTU/h	input power W	input current A
SDC10V48	max	10.700	790	16
	med	8.200	450	9
	min (ECO)	4.500	200	4
SDC18V48	max	18.200	1100	23
	med	12.600	600	13
	min (ECO)	5.000	220	5

Tested at 32°C (89.6°F) seawater temperature (tropical conditions)





# Circulation pumps

## Magnetic pump IP65/4kg

Magnetic pump brushless, variable-speed, suitable for 1-4 self-contained units.

12V

Ref. 007001PUMOP12V  
Ref. 007002PUMOP12V

24V

Ref. GEN001PUMOP24V

48V

Ref. GEN001PUMOP48V



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