

# MARINE BOILERS

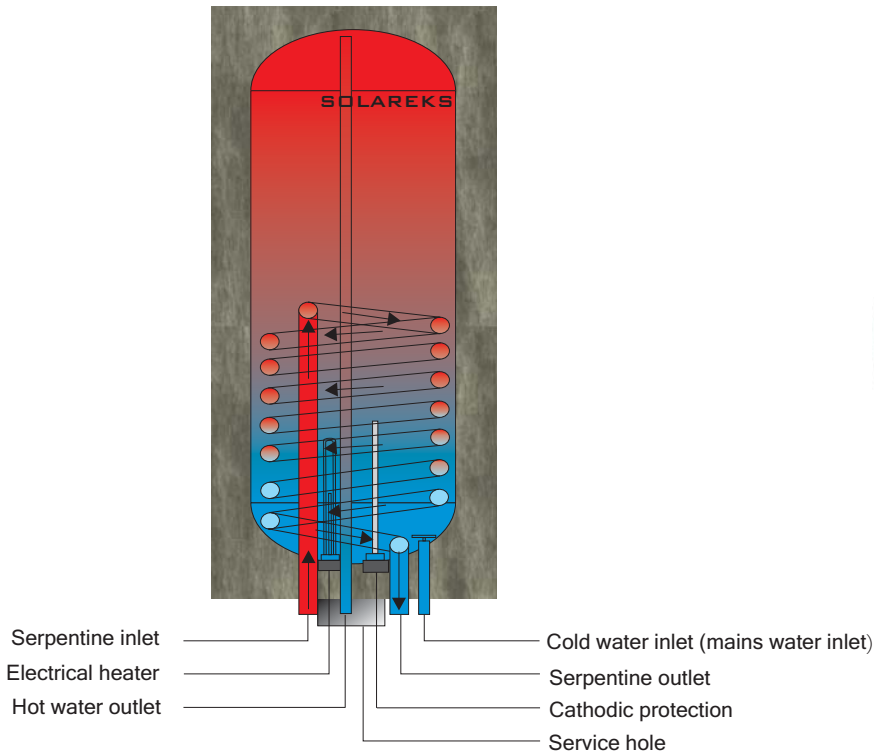
SI UNIT CATALOGUE

## YACHT BOILER



SOLAREKS - MARINE BOILER

Boilers are designed to be used in yachts. Water can be heated with engine cooling liquid and electrical heater. While the engine is operating engine cooling liquid will pass through the serpentine which is located in boiler and heat the water. Thus the engine cooling liquid will heat the water, the saving of the energy will occur. While the engine is not working electrical heater will heat the water.



## Technical characteristics

1- Water heating with using of the electrical heater and engine cooling liquid.

While the engine is operating engine cooling liquid will pass through the serpentine which is located in boiler and will heat the water. Thus the heater will not operate the energy will be saved. When the engine is not working the electrical heater will heat the water.

2- Anti-corrossion protection and hygiene

Boilers inner tank is produced of high quality stainless steel to have a hygienic storage. Thus the boilers are protected by cathodic protection method against corrosion they have the long useful life.

3- Insulation

Boilers are insulated with polyurethane for avoidance of the heat loss.

4- Temperature adjustment

By thermostat heating temperature of the electrical heater can be done easily .

5- Esthetic design

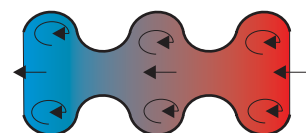
Boilers have great esthetic appearance because of the stainless steel coverage.

6- Long useful life

Boilers are made of stainless steel that is why they have long useful life.

7- High efficient heat transfer

Because of the special design of the pipe the constant water heating is provided.



## 8- Both horizontal and vertical installation possibility

Because of that boiler can be installed both horizontally and vertically it can be placed in every place even not common for yachts.

## 9- Production from the high technology materials

Boilers are made of high technology stainless steel answering world standards.  
They produced by Tig welding method. Products are packed after conducting of all the quality tests.

## 10- Safety

Boiler has thermostat and additional safety thermostat which is used when main thermostat is broken down.  
For avoidance the beginning of the working of boiler without water inside, boiler equipped with non-return valve.  
Safety valve is used when the high pressure occurs.

## 11-Packing

Products are packed in the cartoon box

## 12- Warranty

5 years

Note: Electrical heaters are out of warranty

## Technical characteristics

Capacity	20 lt	25 lt	30 lt	40 lt	60 lt	75 lt	
Anticorrosion protecton	Stainless sleet - Cathodic protection						
Outer coverage	Outer coverage from stainless steel						
Insulation	Polyurethane						
Diameter (mm)	465 x Ø 375	580 x Ø 375	640 x Ø 375	780 x Ø 375	1050 x Ø 375	1300 x Ø 375	
Weigth (kg)	10,5	12,5	13,3	15	19	23	
Working pressure	6 bars						
Test Pressure	9 bars						
Thermostat Heater (Watt) 110 Volt/220 Volt Monophase	800 W	800 W	800 W	1200 W	1200 W	1200 W	
Time of the heating by electrical heater (min.) considering heating from 10°C up to 50°C	70	87	105	93	139	174	
Serpentine heating capacity Engine Cooling Liquid							
	20 lt	25 lt	30 lt	40 lt	60 lt	75 lt	
Heating time (lt/hour) Starting water temp.:10°C Final water temp. :50°C	80°C	45 lt/h	55 lt/h	65 lt/h	95 lt/h	145 lt/h	195 lt/h
	70°C	39 lt/h	48 lt/h	58 lt/h	78 lt/h	115 lt/h	155 lt/h
	60°C	30 lt/h	36 lt/h	45 lt/h	60 lt/h	90 lt/h	120 lt/h

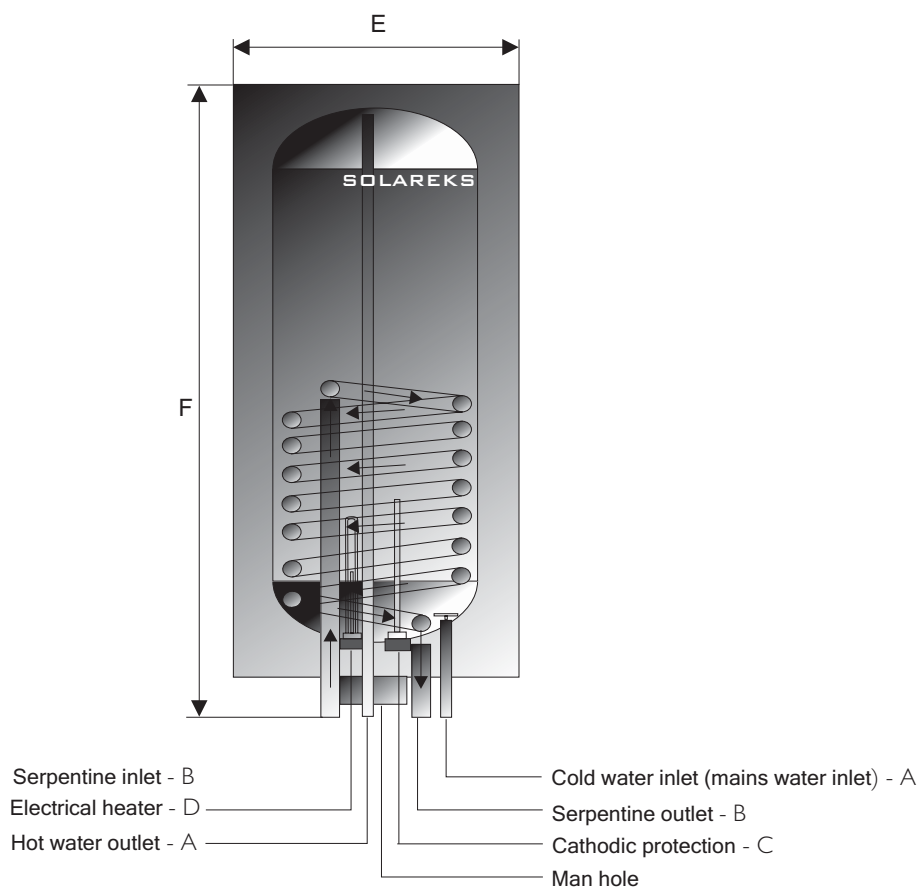
## Technical characteristics of the material

	Material	ASTM (USA)	EN (Europe)	UNS (USA)	BS (Great Britaine)	JIS (Japan)	NF (France)	SIS (Sweden)	GOST (Russia)
Inner tank	Stainless steel	316 L	1.4432 - X5 CrNiMo 17-12-3	S31603	316S13	SUS 316 L	Z 3 CND 17-12-03	2353	03Ch17N14M3
Serpentine	Stainless steel	316 L	1.4432 - X5 CrNiMo 17-12-3	S31603	316S13	SUS 316 L	Z 3 CND 17-12-03	2353	03Ch17N14M3
Electrical heater	Stainless steel	316 L	1.4432 - X5 CrNiMo 17-12-3	S31603	316S13	SUS 316 L	Z 3 CND 17-12-03	2353	03Ch17N14M3
Cathodic protection	Magnesium	ASTM - B843AZ63(H-1)							
Insulation	Polyurethane	DIN - 4102							
Outer coverage	Stainless steel	304 L	1.4306 - X12 CrNi 19- 11	S30403	304S11	SUS 304 L	Z 3 CN 18-10	2352	03Ch18N11
Installation acc.	Stainless steel	304 L	1.4306 - X12 CrNi 19- 11	S30403	304S11	SUS 304 L	Z 3 CN 18-10	2352	03Ch18N11

## Optionally

- For special capacity&design of electrical heater please contact Solareks.

## Dimensions



Capacity	20 lt	25 lt	30 lt	40 lt	60 lt	75 lt
A- Mains water outlet/inlet	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
B- Serpentine inlet/outlet	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
C- Cathodic protection-Ø 26 (mm)	250	250	250	250	250	250
D- Thermostat Heater (Watt) 110 Volt/220Volt Monophase	800	800	800	1200	1200	1200
E- Diameter (mm)	375	375	375	375	375	375
F- Height (mm)	465	580	640	780	1050	1300
G- Weight (kg)	10,5	12,5	13,3	15	19	23

## SI-METRIC Conversions

Liters x 0,2641 = US Gallons

kg x 2,2 = Lbs

Liters x 0,219975 = Great Britain Gallons

m<sup>3</sup> x 264,2 = Gallons

Watt x 3,41214 = BTU/hr

m x 39,37 = Inch

°F = (°C x 1,8) + 32

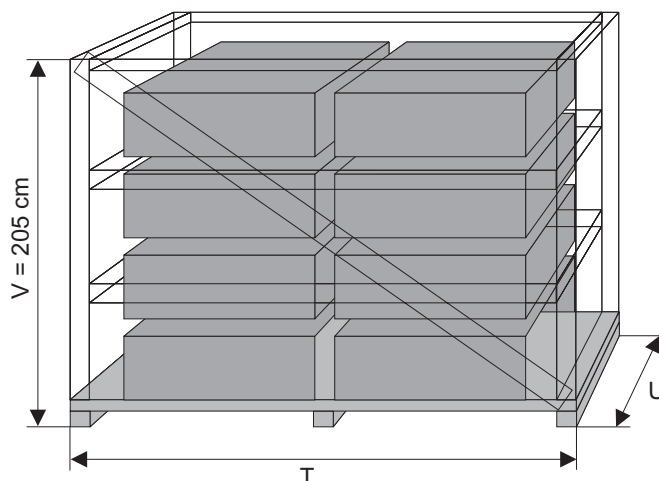
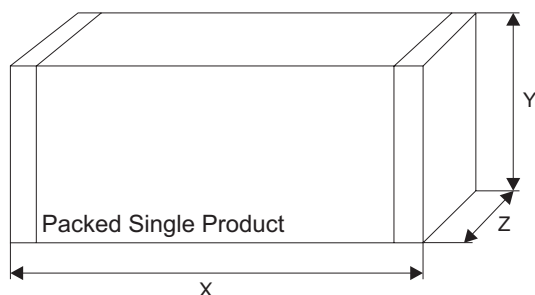
m x 3,28084 = Foot

Bar x 14,5 = psi

# PACKING&SHIPPING DETAILS

## Packing Method

Capacity	Packing
<b>20 - 75 lt</b>	Nylon + Cartoon Box



## Packed Product Dimensions

Capacity	Volume (m <sup>3</sup> )	Weight (kg)	X x Y x Z (mm)	Quantity in a Woodbox	Woodbox Dimensions* T x U x V (cm)
<b>20 lt</b>	0,09	12	500 x 415 x 415	20 piece	100 x 120 x 205 cm
<b>25 lt</b>	0,11	14	600 x 415 x 415	20 piece	100 x 120 x 205 cm
<b>30 lt</b>	0,12	15,5	680 x 415 x 415	20 piece	140 x 120 x 205 cm
<b>40 lt</b>	0,14	17	820 x 415 x 415	20 piece	170 x 120 x 205 cm
<b>60 lt</b>	0,19	21	1090 x 415 x 415	20 piece	220 x 120 x 205 cm
<b>75 lt</b>	0,23	25	1340 x 415 x 415	20 piece	275 x 120 x 205 cm

\* Euro-norm Palette&Woodbox Dimensions.

## Container&Truck Dimensions

	Height x Width x Length	Volume (m <sup>3</sup> )
20" Container	2335 x 2290 x 5890 mm	33,3
40" Container	2335 x 2260 x 12015 mm	66,9
40" High Cube Container	2580 x 2260 x 12015 mm	76
Truck (Euro Norm)	2500 x 2450 x 13400 mm	73



## Contact information

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