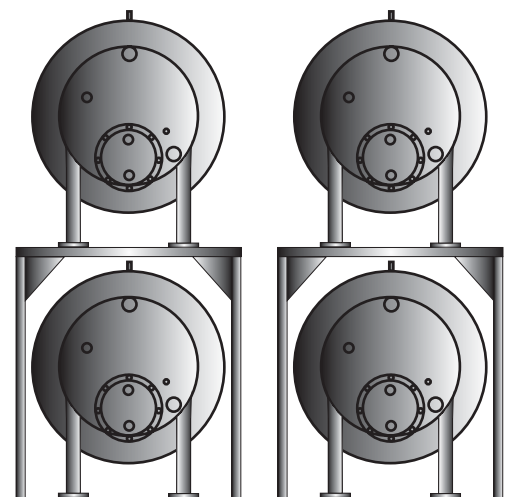
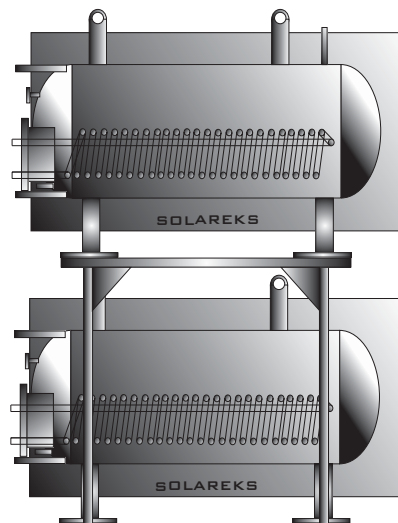


SOLAREKS

Horizontal Type Modular Boiler

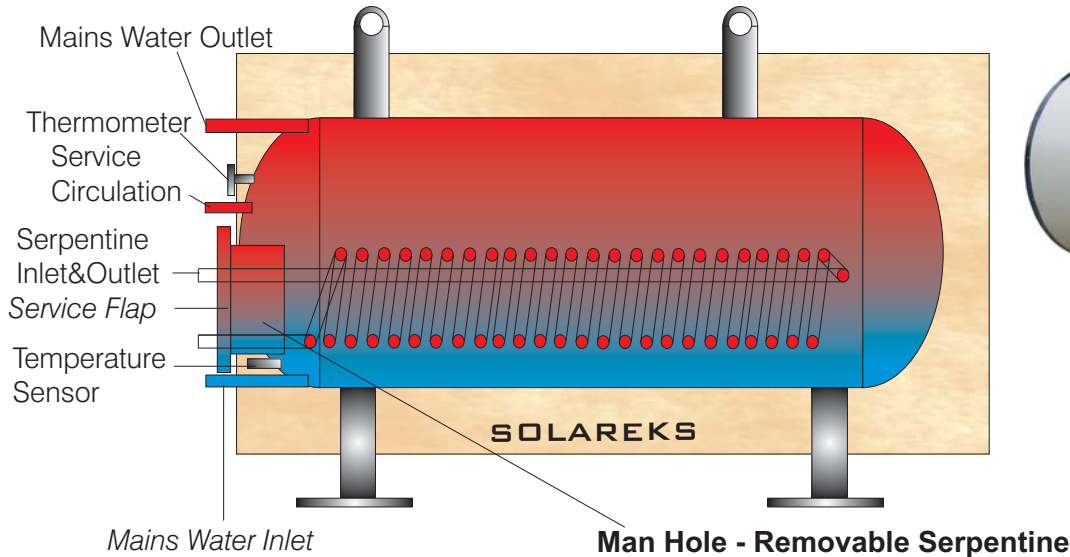


SOLAREKS - BOILER

Horizontal Type Modular Boiler

Single Serpentine Horizontal Type Modular Boilers are used to supply&storage hot water with one kind of heat source like solid/fuel/gas boiler or solar water heating system. This type boiler is preferred to be used in places where there is no much place cause boilers can be replaced as a modular system. Solareks standart products are as written below;

- 1- Stainless Steel Inner Tank + Rockwool Insulation + Hot Deep Galvanized Painted Folio Covered Outer Coverage + 316 L Quality Stainless Steel Removable Heat Transfer Pipe
- 2- Hot Deep Galvanized Inner Tank + Glasswool Insulation + Hot Deep Galvanized Painted Folio Covered Outer Coverage + 316 L Quality Stainless Steel Removable Heat Transfer Pipe



Technical Properties

1- Corrosion protection and hygiene

Boilers are produced by hot deep galvanizing method or with 304 quality stainless steel and protected with cathodic protection against corrosion to have a longer useful life. Cause the stainless steel is used more hygien is obtained.

2- Insulation

Boilers are insulated with glaswool or rockwool.

3- Wide Usage

The boilers can operate with mains water pressure. The tanks may be used with solid/fuel/gas boiler, solar energy systems.

4- Thermostat Heater

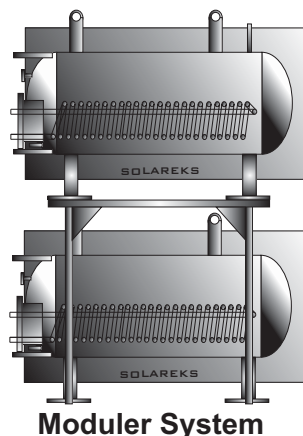
The thermostat heater is an additional specification which can be installed up to 150 kW with an automatic control panel. If the water is heated by solar energy, and waste energy systems or where the final temperature of the water is sensitive the thermostat heater may be used to get the final water temperature.

5- Automatic Control

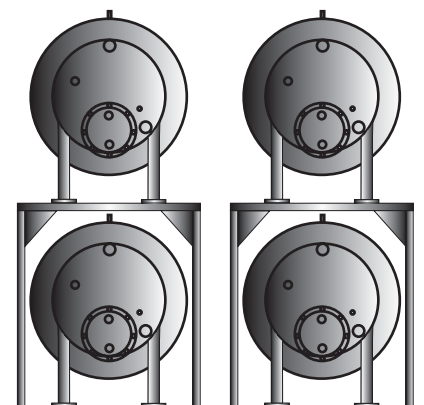
The boiler can be controlled by the automatic controllers that may be supplied by our company. Please contact factory for more details.

6- Moduler System

Boilers can be replaced with their steel mounting frames as seen on photos where there is no free place to replace higher capacities.



Moduler System



6- Transportation

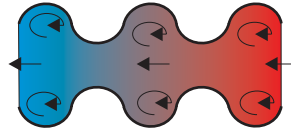
The boilers up to 350 lt can be carried by human force. The boilers can be carried by forklift or crane.

7- Aesthetic

Thus the tanks outer coverage is made of hot deep galvanized painted and folio covered steel it is aesthetic, may be used at the outside of the buildings.

8- Perfect Heat Transfer

Thus the pipes where the heat transfer fluid passes works like a turbulator higher heat convection and heat conduction coefficients are obtained to have a perfect heat transfer



Technical Details

Capacity	100 lt	160 lt	200 lt	300 lt	400 lt	500 lt	600 lt	750 lt	1000 lt
Corrosion Protection	304 Quality stainless steel/Hot deep galvanized + Cathodic protection								
Outer Coverage	Hot Deep Galvanized Painted Folio Covered Outer Coverage**								
Insulation	Rock Wool/Glasswool								
Dimensions (mm)	1200 x Ø 500	1500 x Ø 550	1500 x Ø 600	1760 x Ø 650	1700 x Ø 780	2030 x Ø 780	1900 x Ø 850	2050 x Ø 900	2290 x Ø 990
Dimensions without Insulation&Outer Coverage	-	-	-	-	-	1750 x Ø 640	1620 x Ø 750	1700 x Ø 800	2000 x Ø 850
Weight (G/Ss)* (kg)	71/42	101/60	121/75	152/92	180/110	209/131	252/144	285/190	418/261
Working Pressure	6 bars								
Test Pressure	12 bars								
Thermostat Heater	Optional - The capacity is determined according to project details								

Capacity	1250 lt	1500 lt	1750 lt	2000 lt	2500 lt	3000 lt	4000 lt	5000 lt
Corrosion Protection	304 Quality stainless steel/Hot deep galvanized + Cathodic protection							
Outer Coverage	Hot Deep Galvanized Painted Folio Covered Outer Coverage**							
Insulation	Rock Wool/Glasswool							
Dimensions (mm)	2450 x Ø 1100	2250 x Ø 1300	2400 x Ø 1340	2490 x Ø 1390	2450 x Ø 1600	2490 x Ø 1640	2500 x Ø 1890	2500 x Ø 2090
Dimensions without Insulation&Outer Coverage	2150 x Ø 960	1950 x Ø 1200	2000 x Ø 1200	2100 x Ø 1250	2060 x Ø 1500	2100 x Ø 1500	2100 x Ø 1750	2100 x Ø 1950
Weight (G/Ss)* (kg)	540/325	665/387	770/475	876/565	1042/664	1180/755	1540/982	1945/1270
Working Pressure	6 bars							
Test Pressure	12 bars							
Thermostat Heater	Optional - The capacity is determined according to project details							

* G/Ss: Galvanized boiler weight / Stainless steel boiler weight

** Horizontal Type Boilers are not produced with removable outer coverage

Options

- Boilers are produced with electrical heater and control case which is equipped with security elements.

Heating Capacities

Single serpentine boiler continous working capacity				
Heat transfer fluid temp ↘		100 lt	160 lt	200 lt
Heating capacity (lt/h) Water inlet temp:10°C Water outlet temp:50°C	80°C	490 lt/h	845 lt/h	885 lt/h
	70°C	385 lt/h	665 lt/h	700 lt/h
	60°C	305 lt/h	495 lt/h	525 lt/h

Single serpentine boiler continous working capacity				
Heat transfer fluid temp ↘		300 lt	400 lt	500 lt
Heating capacity (lt/h) Water inlet temp:10°C Water outlet temp:50°C	80°C	1270 lt/h	1630 lt/h	2000 lt/h
	70°C	1000 lt/h	1280 lt/h	1620 lt/h
	60°C	740 lt/h	960 lt/h	1180 lt/h

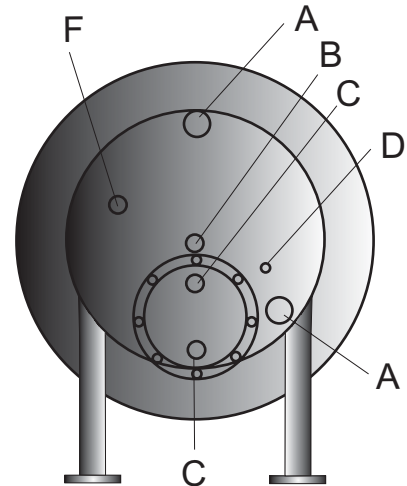
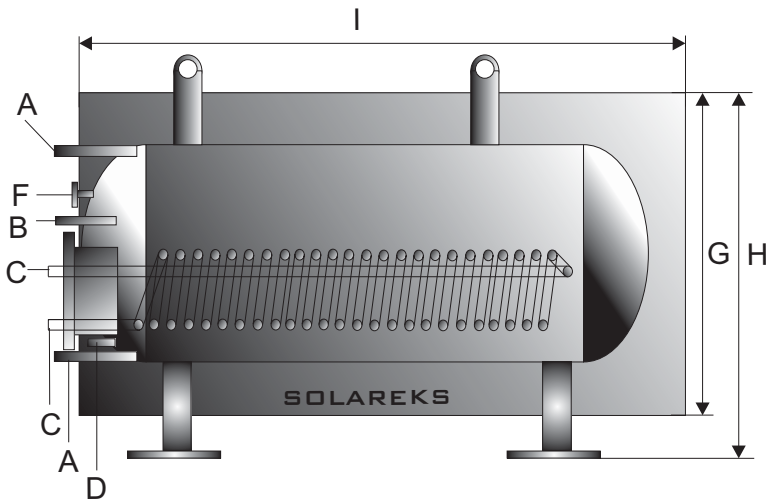
Single serpentine boiler continous working capacity				
Heat transfer fluid temp ↘		600 lt	750 lt	1000 lt
Heating capacity (lt/h) Water inlet temp:10°C Water outlet temp:50°C	80°C	1760 lt/h	2200 lt/h	3540 lt/h
	70°C	1400 lt/h	1750 lt/h	2800 lt/h
	60°C	1030 lt/h	1280 lt/h	2100 lt/h

Single serpentine boiler continous working capacity				
Heat transfer fluid temp ↘		1250 lt	1500 lt	1750 lt
Heating capacity (lt/h) Water inlet temp:10°C Water outlet temp:50°C	80°C	4250 lt/h	4950 lt/h	5850 lt/h
	70°C	3350 lt/h	3900 lt/h	4650 lt/h
	60°C	2500 lt/h	2930 lt/h	3400 lt/h

Single serpentine boiler continous working capacity				
Heat transfer fluid temp ↘		2000 lt	2500 lt	3000 lt
Heating capacity (lt/h) Water inlet temp:10°C Water outlet temp:50°C	80°C	6780 lt/h	8475 lt/h	8070 lt/h
	70°C	5400 lt/h	6750 lt/h	6380 lt/h
	60°C	3950 lt/h	4920 lt/h	4730 lt/h

Single serpentine boiler continous working capacity				
Heat transfer fluid temp ↘		4000 lt	5000 lt	
Heating capacity (lt/h) Water inlet temp:10°C Water outlet temp:50°C	80°C	10700 lt/h	13100 lt/h	
	70°C	8500 lt/h	10850 lt/h	
	60°C	6300 lt/h	8070 lt/h	

Product Dimensions



Capacity	100 lt	160 lt	200 lt	300 lt	400 lt	500 lt	600 lt	750 lt	1000 lt	1250 lt	1500 lt	1750 lt	2000 lt
A- Mains Water Inlet&Outlet	3/4"	3/4"	3/4"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"
B- Service Circulation	3/4"	3/4"	3/4"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"
C- Serpentine Inlet/Outlet*	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1 1/4"
D- Sensor Inlet	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
E- Cathodic Protection-Ø 26 (mm)	700	700	700	700	700	1400	1400	1400	1400	1400	1400	1400	2800
F- Thermometer Inlet	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
G- Diameter (mm)	500	550	600	650	780	780	850	900	990	1100	1300	1340	1390
H- Height (mm)	600	650	700	750	880	880	950	1000	1140	1240	1440	1490	1540
I- Length (mm)	1200	1500	1500	1760	1700	2030	1900	2050	2290	2450	2250	2400	2490

Capacity	2500 lt	3000 lt	4000 lt	5000 lt
A- Mains Water Inlet&Outlet	1 1/2"	2"	2"	2"
B- Service Circulation	1 1/2"	2"	2"	2"
C- Serpentine Inlet/Outlet*	1 1/4"	1 1/2"	2"	2"
D- Sensor Inlet	1/2"	1/2"	1/2"	1/2"
E- Cathodic Protection-Ø 26 (mm)	2800	2800	4200	4200
F- Thermometer Inlet	1/2"	1/2"	1/2"	1/2"
G- Diameter (mm)	1600	1640	1890	2090
H- Height (mm)	1740	1790	2040	2240
I- Length (mm)	2450	2490	2500	2500



PACKING&SHIPPING DETAILS

Packing Method

Capacity	Packing
100 lt ...5000 lt	Nylon + Wood Box

Packed Product Dimensions

Capacity	Volume (m ³)	Weight (kg) (G/Ss)*	Capacity	Volume (m ³)	Weight (kg) (G/Ss)*
100 lt	0,34	104/77	1250 lt	3,2	650/430
160 lt	0,52	146/105	1500 lt	4,0	782/504
200 lt	0,60	166/120	1750 lt	4,5	920/590
300 lt	0,82	198/138	2000 lt	5,0	993/682
400 lt	1,1	250/180	2500 lt	6,30	1234/856
500 lt	1,34	305/226	3000 lt	6,80	1372/947
600 lt	1,47	348/240	4000 lt	8,90	1732/1174
750 lt	1,77	381/286	5000 lt	10,70	2176/1501
1000 lt	2,40	518/361			

* G/Ss: Galvanized boiler weight / Stainless steel boiler weight with wooden boxes



Container&Truck Dimensions

	Height x Width x Length	Volume (m ³)
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

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