AQUA BOILER

Single&Double Serpentine Boiler

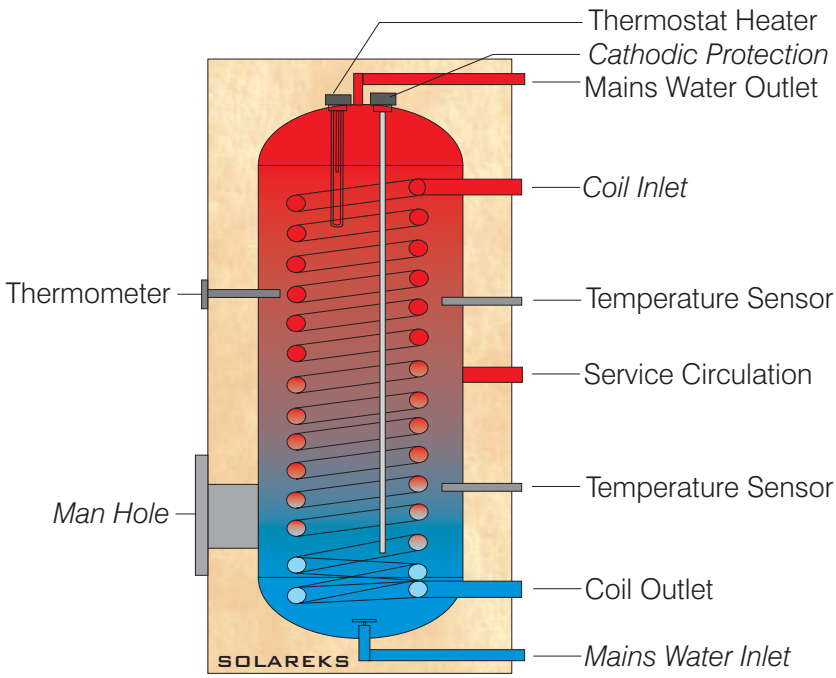
SOLAREKS - AQUA BOILER

Single Serpentine Boiler

The Single Serpentine Boiler is used to supply hot water with one heat source like solid/fuel/gas boiler or solar water heating systems. Solareks standart product range is written below;

1- Stainless steel inner material + Rockwool Insulation + Stainless steel outer coverage or special removable &flexible specail outer coverage + Special heat transfer pipe

2- Hot deep galvanized inner material + Glasswool Insulation + Stainless steel outer coverage or special removable&flexible specail outer coverage + Standart steel 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 80 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 get in touch for more details.

Single Serpentine Boiler

6- Transportation

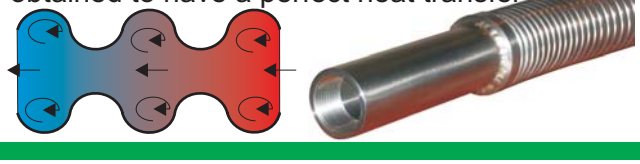
The boilers up to 350 lt can be carried by human force. The accumulaters that are above 350 lt, outer coverage can be taken off for an easy carriage where needed. The boilers can be carried by forklift or crane.

7- Aesthetic

Thus the tanks outer coverage is made of brushed decorative stainless 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



** This kind of pipe is used only in stainless steel boilers

Technical Details

Capacity	100 lt	160 lt	200 lt	300 lt	350 lt	500 lt	600 lt	750 lt
Corrosion Protection	304 Quality stainless steel/Hot deep galvanized + Cathodic protection							
Outer Coverage	Decorative Brushed Stainless Steel or removable flexible coverage							
Insulation	Rock Wool/Glasswool							
Dimensions (mm)	1000 x Ø 500	1300 x Ø 550	1300 x Ø 600	1560 x Ø 650	1480 x Ø 700	1830 x Ø 780	1700 x Ø 850	1850 x Ø 900
Dimensions without Insulation&Outer Coverage	-	-	-	-	-	1750 x Ø 640	1620 x Ø 750	1700 x Ø 800
Weight (G/Ss)* (kg)	71/42	101/60	121/75	152/92	156/99	209/131	252/144	285/190
Working Pressure	6 bar							
Test Pressure	12 bar							
Thermostat Heater	Optional - The capacity is determined according to project details							

Capacity	1000 lt	1500 lt	2000 lt	2500 lt	3000 lt	4000 lt	5000 lt
Corrosion Protection	304 Quality stainless steel/Hot deep galvanized + Cathodic protection						
Outer Coverage	Decorative Brushed Stainless Steel or removable flexible coverage						
Insulation	Rock Wool/Glasswool						
Dimensions (mm)	2090 x Ø 990	2050 x Ø 1300	2190 x Ø 1390	2150 x Ø 1600	2190 x Ø 1640	2200 x Ø 1890	2200 x Ø 2090
Dimensions without Insulation&Outer Coverage	2000 x Ø 850	1950 x Ø 1200	2100 x Ø 1250	2060 x Ø 1500	2100 x Ø 1500	2100 x Ø 1750	2100 x Ø 1950
Weight	418/261	665/387	876/565	1042/664	1180/755	1540/982	1945/1270
Working Pressure	6 bar						
Test Pressure	12 bar						
Thermostat Heater	Optional - The capacity is determined according to project details						

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

Options

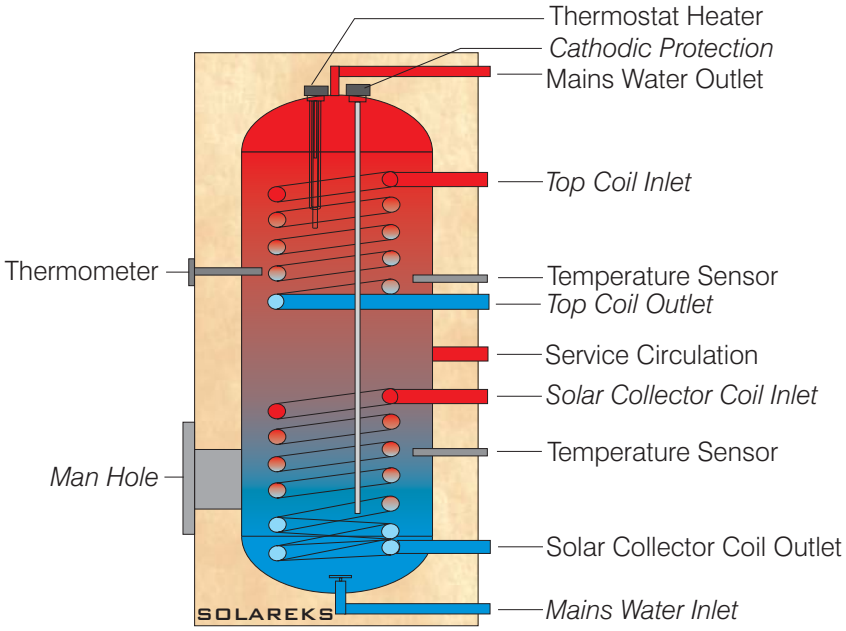
- The boiler outer coverage may be produced by flexible removable outer coverage
- The boiler capacities that are greater than 500 lt which has a electrical heater capacity greater than 6 kW may be produced with control panel.

Double Serpentine Boiler

Double serpentine boilers are used to supply hot water with two kind of heat source like Solid/fuel/gas boiler + solar water heating system/waste energy. Solareks standart product range is written below;

1- Stainless steel inner material + Rockwool Insulation + Stainless steel outer coverage or special removable &flexible specail outer coverage + Special heat transfer pipe

2- Hot deep galvanized inner material + Glasswool Insulation + Stainless steel outer coverage or special removable&flexible specail outer coverage + Standart steel heat transfer pipe



Technical Properties

1- Corrosion Protection

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 two of solid/fuel/gas boiler, solar energy systems together.

4- Thermostat Heater

The thermostat heater is an additional specification which can be installed up to 80 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 get in touch for more details.

Double Serpentine Boiler

6- Transportation

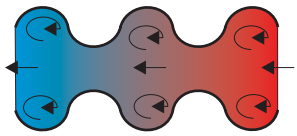
The accumulator tanks up to 350 lt can be carried by human force. The accumulaters that are above 350 lt, outer coverage can be taken off for an easy carriage where needed. The accumulaters can be carried by forklift or crane.

7- Aesthetic

Thus the tanks outer coverage is made of brushed decorative stainless 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



** This kind of pipe is used only in stainless steel boilers

Technical Details

Capacity	100 lt	160 lt	200 lt	300 lt	350 lt	500 lt	600 lt	750 lt
Corrosion Protection	304 Quality stainless steel/Hot deep galvanized + Cathodic protection							
Outer Coverage	Decorative Brushed Stainless Steel or removable flexible coverage							
Insulation	Rock Wool/Glasswool							
Dimensions (mm)	1000 x Ø 500	1300 x Ø 550	1300 x Ø 600	1560 x Ø 650	1480 x Ø 700	1830 x Ø 780	1700 x Ø 850	1850 x Ø 900
Dimensions without Insulation&Outer Coverage	-	-	-	-	-	1750 x Ø 640	1620 x Ø 750	1700 x Ø 800
Weight (G/Ss)* (kg)	75/42	106/61	133/76	167/93	185/101	236/133	295/146	332/192
Working Pressure	6 bar							
Test Pressure	12 bar							
Thermostat Heater	Optional - The capacity is determined according to project details							

Capacity	1000 lt	1500 lt	2000 lt	2500 lt	3000 lt	4000 lt	5000 lt
Corrosion Protection	304 Quality stainless steel/Hot deep galvanized + Cathodic protection						
Outer Coverage	Decorative Brushed Stainless Steel or removable flexible coverage						
Insulation	Rock Wool/Glasswool						
Dimensions (mm)	2090 x Ø 990	2050 x Ø 1300	2190 x Ø 1390	2150 x Ø 1600	2190 x Ø 1640	2200 x Ø 1890	2200 x Ø 2090
Dimensions without Insulation&Outer Coverage	2000 x Ø 850	1950 x Ø 1200	2100 x Ø 1250	2060 x Ø 1500	2100 x Ø 1500	2100 x Ø 1750	2100 x Ø 1950
Weight	458/263	725/410	958/570	1155/670	1330/770	1750/998	2185/1285
Working Pressure	6 bar						
Test Pressure	12 bar						
Thermostat Heater	Optional - The capacity is determined according to project details						

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

Options

- The tank capacities that are greater than 500 lt which has a electrical heater capacity greater than 6 kW may be produced with control panel.

Heating Capacities

Double 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	Top	300 lt/h	Bottom	350 lt/h	Top	470 lt/h	Bottom	565 lt/h	Top	580 lt/h	Bottom	710 lt/h
	70°C	Top	235 lt/h	Bottom	275 lt/h	Top	370 lt/h	Bottom	445 lt/h	Top	465 lt/h	Bottom	560 lt/h
	60°C	Top	200 lt/h	Bottom	220 lt/h	Top	280 lt/h	Bottom	330 lt/h	Top	345 lt/h	Bottom	420 lt/h

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

Double serpentine boiler continous working capacity															
Heat transfer fluid temp ↘		300 lt				350 lt				500 lt			
Heating capacity (lt/h) Water inlet temp:10°C Water outlet temp:50°C	80°C	Top	880 lt/h	Bottom	1060 lt/h	Top	1030 lt/h	Bottom	1230 lt/h	Top	1390 lt/h	Bottom	1670 lt/h
	70°C	Top	700 lt/h	Bottom	840 lt/h	Top	810 lt/h	Bottom	970 lt/h	Top	1120 lt/h	Bottom	1350 lt/h
	60°C	Top	520 lt/h	Bottom	620 lt/h	Top	600 lt/h	Bottom	720 lt/h	Top	825 lt/h	Bottom	990 lt/h

Single serpentine boiler continous working capacity				
Heat transfer fluid temp ↘		300 lt	350 lt	500 lt
Heating capacity (lt/h) Water inlet temp:10°C Water outlet temp:50°C	80°C	1270 lt/h	1230 lt/h	2000 lt/h
	70°C	1000 lt/h	970 lt/h	1620 lt/h
	60°C	740 lt/h	720 lt/h	1180 lt/h

Double 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	Top	1350 lt/h	Bottom	1760 lt/h	Top	1490 lt/h	Bottom	2200 lt/h	Top	2270 lt/h	Bottom	2950 lt/h
	70°C	Top	1070 lt/h	Bottom	1400 lt/h	Top	1180 lt/h	Bottom	1750 lt/h	Top	1800 lt/h	Bottom	2350 lt/h
	60°C	Top	790 lt/h	Bottom	1030 lt/h	Top	875 lt/h	Bottom	1280 lt/h	Top	1350 lt/h	Bottom	1750 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

Double serpentine boiler continous working capacity															
Heat transfer fluid temp ↘		1500 lt				2000 lt				2500 lt			
Heating capacity (lt/h) Water inlet temp:10°C Water outlet temp:50°C	80°C	Top	3175 lt/h	Bottom	4130 lt/h	Top	4000 lt/h	Bottom	5650 lt/h	Top	5200 lt/h	Bottom	7060 lt/h
	70°C	Top	2520 lt/h	Bottom	3290 lt/h	Top	3200 lt/h	Bottom	4500 lt/h	Top	4150 lt/h	Bottom	5620 lt/h
	60°C	Top	1890 lt/h	Bottom	2450 lt/h	Top	2300 lt/h	Bottom	3300 lt/h	Top	3020 lt/h	Bottom	4120 lt/h

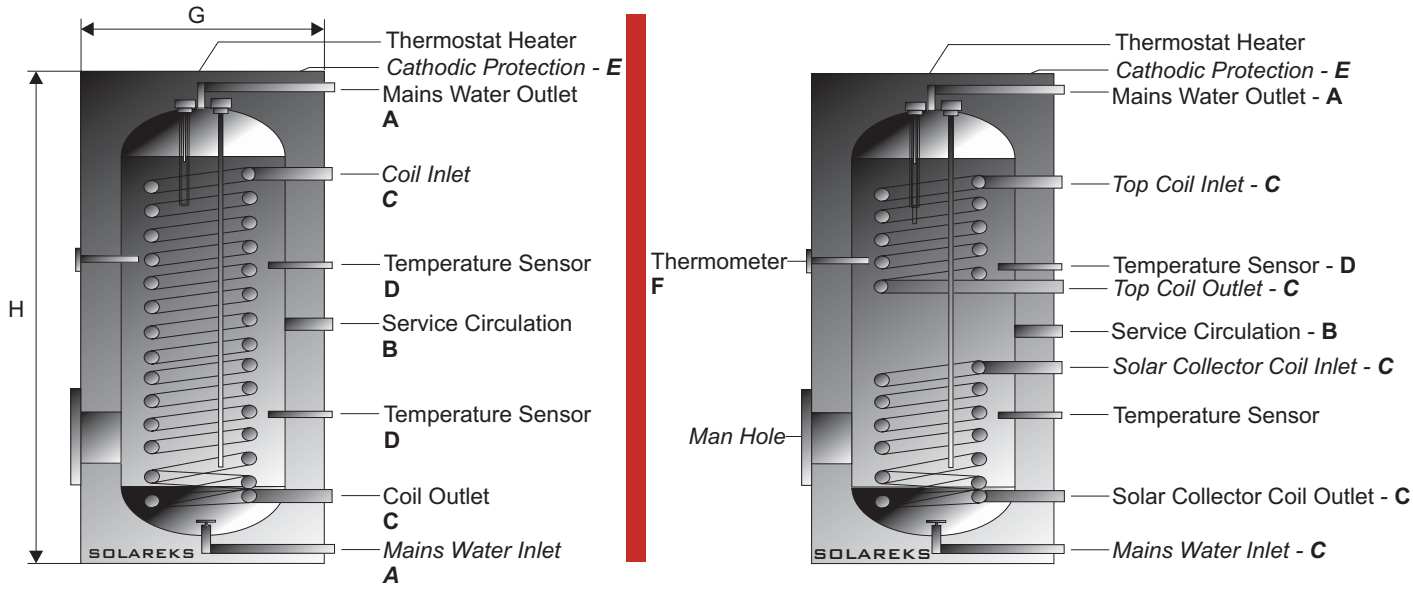
Single serpentine boiler continous working capacity				
Heat transfer fluid temp ↘		1500 lt	2000 lt	2500 lt
Heating capacity (lt/h) Water inlet temp:10°C Water outlet temp:50°C	80°C	4950 lt/h	6780 lt/h	8475 lt/h
	70°C	3900 lt/h	5400 lt/h	6750 lt/h
	60°C	2930 lt/h	3950 lt/h	4920 lt/h

Double serpentine boiler continous working capacity															
Heat transfer fluid temp ↘		3000 lt				4000 lt				5000 lt			
Heating capacity (lt/h) Water inlet temp:10°C Water outlet temp:50°C	80°C	Top	6050 lt/h	Bottom	7080 lt/h	Top	8050 lt/h	Bottom	9400 lt/h	Top	10100 lt/h	Bottom	11200 lt/h
	70°C	Top	4800 lt/h	Bottom	5600 lt/h	Top	6400 lt/h	Bottom	7450 lt/h	Top	8050 lt/h	Bottom	9300 lt/h
	60°C	Top	3500 lt/h	Bottom	4150 lt/h	Top	4750 lt/h	Bottom	5500 lt/h	Top	5900 lt/h	Bottom	6900 lt/h

Single serpentine boiler continous working capacity				
Heat transfer fluid temp ↘		3000 lt	4000 lt	5000 lt
Heating capacity (lt/h) Water inlet temp:10°C Water outlet temp:50°C	80°C	8070 lt/h	10700 lt/h	13100 lt/h
	70°C	6380 lt/h	8500 lt/h	10850 lt/h
	60°C	4730 lt/h	6300 lt/h	8070 lt/h

SOLAREKS AQUA BOILER

Product Dimensions



Capacity	100 lt	160 lt	200 lt	300 lt	350 lt	500 lt	600 lt	750 lt	1000 lt	1500 lt	2000 lt	2500 lt	3000 lt
A- Mains Water Inlet&Outlet	3/4”	3/4”	3/4”	1”	1”	1”	1”	1 ¼”	1 ¼”	1 ½”	1 ½”	1 ½”	2”
B- Service Circulation	3/4”	3/4”	3/4”	1”	1”	1”	1”	1 ¼”	1 ¼”	1 ½”	1 ½”	1 ½”	2”
C- Serpentine Inlet/Outlet*	1”	1”	1”	1”	1”	1”	1”	1”	1”	1”	1 ¼”	1 ¼”	1 ½”
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	2800	2800	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	700	780	850	900	990	1300	1390	1600	1640
H- Height (mm)	1000	1300	1300	1560	1480	1830	1700	1850	2090	2050	2190	2150	2190

Capacity	4000 lt	5000 lt
A- Mains Water Inlet&Outlet	2 ½”	2 ½”
B- Service Circulation	2 ½”	2 ½”
C- Serpentine Inlet/Outlet*	2”	2”
D- Sensor Inlet	1/2”	1/2”
E- Cathodic Protection-Ø 26 (mm)	4200	4200
F- Thermometer Inlet	1/2”	1/2”
G- Diameter (mm)	1890	2090
H- Height (mm)	2200	2200

* Top and bottom serpentine pipes are at the same diameter

PACKING DETAILS

Single&Double Serpentine Boiler

Product	Packing Details
100 lt ...5000 lt	Wooden Box and Bubled Nylon

Single Serpentine Boiler

Product	Volume (m^3)	Weight (G/Ss)* (kg)
100 lt	0,34	104/77
160 lt	0,52	146/105
200 lt	0,60	166/120
300 lt	0,82	198/138
350 lt	0,90	202/145
500 lt	1,34	305/226
600 lt	1,47	348/240
750 lt	1,77	381/286

Product	Volume (m^3)	Weight (G/Ss)* (kg)
1000 lt	2,40	518/361
1500 lt	4,0	782/504
2000 lt	5,0	993/682
2500 lt	6,30	1234/856
3000 lt	6,80	1372/947
4000 lt	8,90	1732/1174
5000 lt	10,70	2176/1501

Double Serpentine Boiler

Product	Volume (m^3)	Weight (G/Ss)* (kg)
100 lt	0,34	108/75
160 lt	0,52	151/106
200 lt	0,60	178/121
300 lt	0,82	213/139
350 lt	0,90	231/147
500 lt	1,34	332/229
600 lt	1,47	391/242
750 lt	1,77	428/288

Product	Volume (m^3)	Weight (G/Ss)* (kg)
1000 lt	2,40	558/363
1500 lt	4,0	842/527
2000 lt	5,0	1075/687
2500 lt	6,30	1347/862
3000 lt	6,80	1522/962
4000 lt	8,90	1942/1190
5000 lt	10,70	2416/1516

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

SOLAREKS Contact Details

Adress: İmes Sanayi Sitesi A Blok 106. Sokak No: 48 Yukarı Dudullu / İstanbul TURKİYE
Post Code: 81260

Ph: (0090) 216 314 85 80
Fax: (0090) 216 364 10 29
For English: (0090) 532 685 96 30

www.solareks.com.tr
info@solareks.com.tr

www.solareks.com
info@solareks.com

www.aquaboiler.com
www.boyler.net