SUNSYSTEM

Energy from the sun



SOLAR WATER HEATERS STwith built-in solar station

A pre-assembled compact kit of water heater with twin-line solar station. Set up a solar thermal system with minimum effort and installation charges.

Product Features

Equipped with standard twin-line solar pump station with integrated differential temperature controller.

- (§) Return line with ball valve and adjustable non-return valve
- S Temperature indication on the flow and return lines
- S Flowmeter with scale
- Safety assembly with pressure gauge and relief valve
- § Fill/Drain valve for filling and flushing of the system
- ⑤ Pre-assembled, installed on the tank shell and ready to run

Aesthetic outer casing in RAL 9006 and black plastic parts

Tank material: S235JR coated with glass-ceramic enamel in accordance with DIN 4753-3, or stainless steel

Magnesium anode for cathodic corrosion protection in all enameled models

1½" sleeve for fitting of an optional electric heating element

Inspection opening Ø180 x Ø120 in models of volume up to 500 l

All threads are internal

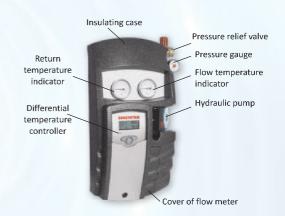
Large-sized (1") sleeves of heat exchangers to facilitate flow

Large surface of heat exchangers for maximum efficiency

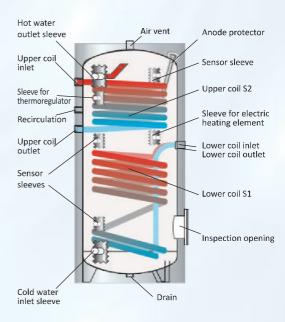
Compressive strength: tank- 10 bar; heat exchanger - 16 bar

Thermometer gauge

Thermoregulator, heating element and a safety valve with 8 bar setting are available as an option



Twin-line solar pump station



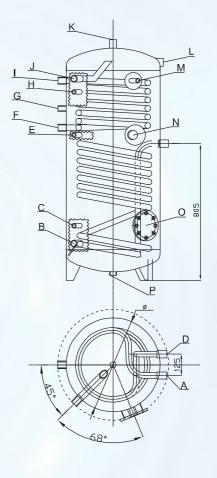
Solar water tank ST

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Technical specification:

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Model			So ST 200	So ST 300	So ST 400	So ST 500
Volume		- 1	200	300	400	500
Height H		mm	1340	1420	1470	1720
Diameter D		mm	ø 560	ø 660	ø 750	ø 750
Operating pressure / max. temperature		bar/°C	10/95	10/95	10/95	10/95
	Testing pressure of tank		15	15	15	15
Lower coil S1/Upper coil S2	Heat-exchanger surface	m ²	0.9/0.6	1.2/0.9	1.5/1	1.8/1.2
	Heat-exchanger volume	- 1	5.55/3.70	7.40/5.55	9.25/6.17	11.10/7.40
	Prolonged power according to DIN 4708; 80/60/45 °C	kW m³/h	29/18 0.71/0.44	53/21 1.30/0.52	62/27 1.52/0.66	72/34 1.77/0.84
	NL – power coefficient at 60°C		4.5/1.5	11/2	13/2.2	18/2.8
	Pressure drop Δp	mbar	75/55	120/70	180/20	210/90
Operating pressure / max. operating temperature of coils		bar/°C	16/110	16/110	16/110	16/110
Testing pressure of coils		bar	25	25	25	25
Thermal indicator			✓	✓	✓	✓
Heating element wattage		kW	3	4.5	6	7.5
Lower coil outlet		А	R1" 692	R1" 805	R1" 850	R1" 960
Cold water inlet		В	R1" 202	R1" 215	R1¼" 270	R½" 270
Sensor sleeve		С	R½" 302	R½" 320	R½" 450	R½" 450
Lower coil inlet		D	R1" 692	R1" 805	R1" 850	R1" 960
Sensor sleeve		Е	R½" 752	R½" 852	R½" 901	R½" 1011
Upper coil outlet		F	R1" 812	R1" 894	R1" 952	R1" 1062
Recirculation		G	R¾" 987	R¾" 1007	R1" 1105	R1" 1206
Thermoregulator sleeve		Н	R½" 1037	R½" 1104	R½" 1054	R½" 1206
Upper coil inlet		1	R1" 1112	R1" 1170	R1" 1210	R1" 1350
Hot water outlet		J	R1" 1168	R1" 1182	R1¼" 1240	R½" 1453
Air vent sleeve		K	R1" 1340	R1" 1410	R1" 1460	R1" 1710
Anode protector		L	R1¼" 1340	R1¼" 1410	R1¼" 1318	R1¼" 1568
Sensor sleeve		M	R½" 1138	R½" 1170	R½" 1452	R½" 1453
Heating element sleeve		N	R1½" 752	R1½" 852	R1½" 901	R1½" 1011
Inspection opening ø180/ø110		0	309	320	450	450
Drain		Р	30	30	30	30
	Weight enameled/CrNi	kg	110/75	130/108	160/141	190/165
Solar station	Control Unit		DeltaSol BS			
	Circulation pump		WILO Star ST15/6 (solar grade)			
	Nominal size		DN 20			
	Material		Fittings brass, Sealings Viton/Teflon, Insulation EPP			
	Safety valve		6 bar			
	Spring pressure of non-return valve		2 x 200 mm head = 400mm head in total			
	Flowmeter		1 13 l/min			
	Maximum temperature		+110 °C, peak temp +180 °C			
	Connections		¾" T			



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