





## DUAL-COIL FLOOR STANDING WATER HEATERS SUNSYSTEM SON

Floor standing. For indirect heating; Suitable for solar and space-heating systems

## FEATURES



Energy Efficiency



Aesthetic PVC jacket



Easy installation



Convenient inspection  
opening



Optional kit for electric  
heating

## PRODUCT FEATURES:

- High efficiency insulation and outer casing of PVC with RAL 9006 color.
- Multi-position mounting of temperature sensor.
- Complex corrosion protection realized by means of titanium enamel and anode protection.
- All threads are internal.
- Easy installation.
- Convenient inspection opening.
- Available modifications with vertical and horizontal orientation.
- Two heat exchangers enables the tank to utilize an external sources of renewable energy, such as a solar system and a biomass boiler.
- Optional kit for electric heating with nominal power 3kW, 4.5kW, 6kW or 7.5kW.

## MODIFICATIONS AND SIZES, LITERS:

- Vertical models:  
150, 200, 300, 400, 500, 750, 1000, 1500, 2000.
- Horizontal models:  
300, 500, 1000, 1500.

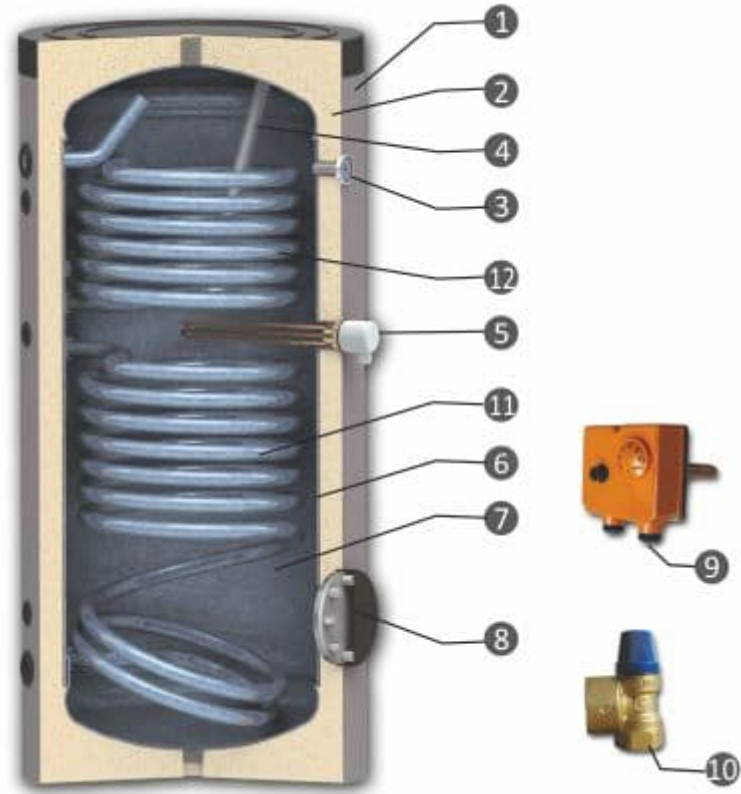
## ENERGY EFFICIENCY

- Directive 2010/30 /EU, Regulation 812/2013:
- Class C for 150 to 500 liters capacity
- Class E for 750 to 1000 liters capacity.



## ELEMENTS:

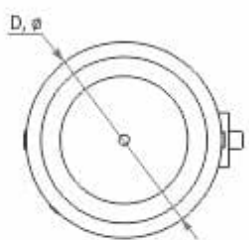
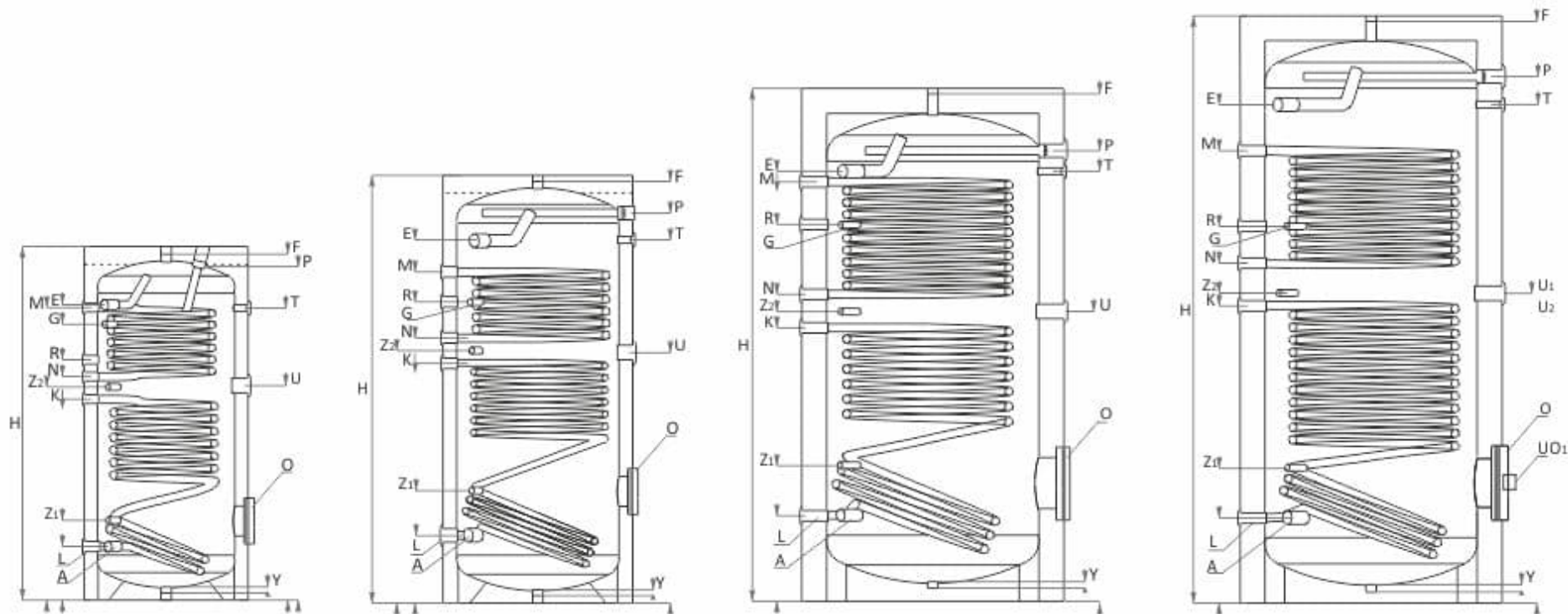
- 1 – Aesthetic PVC jacket with color RAL 9006
- 2 – Highly efficient thermal insulation
- 3 – Thermometer
- 4 – Anode protector (DIN 4753-6)
- 5 – Electric heating element
- 6 – Water tank of low-carbon steel
- 7 – Titanium enamel (DIN 4753-3)
- 8 – Inspection opening with flange cover
- 9 – Thermostat with integrated thermal protection
- 10 – Safety valve, 8 bar
- 11 – Lower coil S1
- 12 – Upper coil S2



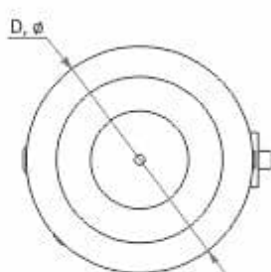
## TECHNICAL CHARACTERISTICS

Vertical models

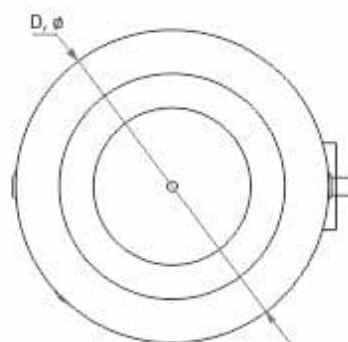




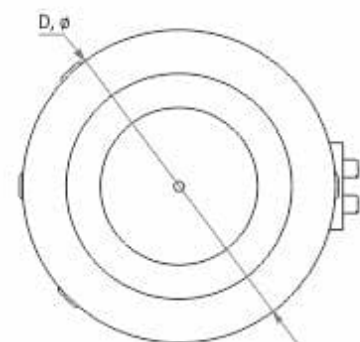
SON 300



SON 500



SON 1000



SON 1500

	SON 150	SON 200	SON 300	SON 400	SON 500	SON 750	SON 1000	SON 1500	SON 2000	
Capacity	L	150	200	300	400	500	750	1000	1500	2000

Height / Min. vertical clearance	H, mm	1070/1210	1340/1460	1420/1580	1470/1670	1720/1890	2000/2030	2050/2080	2310/2370	2310/2370	
Diameter	D, mm	Ø 560	Ø 560	Ø 660	Ø 750	Ø 750	Ø 950	Ø 1050	Ø 1050	Ø 1350	
Insulation		50 mm rigid PPU					100 mm soft PPU, removable				
Oper. pressure / max. temperature	bar/OC	10/95	10/95	10/95	10/95	10/95	10/95	10/95	10/95	10/95	
Test pressure of tank	bar	15	15	15	15	15	15	15	15	15	
Electric heating element (optional)	kW	2 x (3÷6)	2x (3÷6)	2 x (3÷6)	2 x (3÷7.5)	2 x (3÷7.5)	2 x (3÷7.5)	2 x (3÷7.5)	3 x (3÷7.5)	4 x (3÷7.5)	
Weight	kg	65	82	118	160	185	263	315	423	761	
Cold water inlet	A, mm	Rp1"/202	Rp1"/202	Rp1"/215	Rp1¼"/270	Rp1½"/270	Rp1"/300	Rp1"/320	Rp1"/320	Rp1¼"/385	
Hot water outlet	B, mm	Rp1"/1070	Rp1"/1168	Rp1"/1182	Rp1¼"/1240	Rp1½"/1453	Rp1"/1630	Rp1"/1700	Rp1"/1975	Rp1¼"/1885	
Recirculation	R, mm	Rp¾"/788	Rp¾"/987	Rp¾"/957	Rp1"/1105	Rp1"/1206	Rp1"/1405	Rp1"/1487	Rp1"/1487	Rp1"/1265	
Operating pressure / Max.Coils temp. S1/S2	bar/OC	16/110	16/110	16/110	16/110	16/110	16/110	16/110	16/110	16/110	
Test pressure S1/S2	bar	25	25	25	25	25	25	25	25	25	
Coil capacity S1/S2	L	4.56/2.47	5.55/3.70	7.40/5.55	9.25/6.17	11.10/7.40	12.95/8.63	16.65/11.72	18.50/15.42	25.28/18.50	
Heat exchange surface S1/S2	m <sup>2</sup>	0.74/0.4	0.9/0.6	1.2/0.9	1.5/1	1.8/1.2	2.1/1.4	2.7/1.9	3/2.5	4.1/3	
Lower coil inlet S1	S1i, mm, Rp1"	592	692	805	850	960	970	1080	1180	1635	
Lower coil outlet S1	S1o, mm,	202	202	215	270	270	300	320	320	385	

	Rp1"										
Upper coil inlet S2	S2i, mm, Rp1"	874	1112	1170	1210	1350	1560	1660	1790	1885	
Upper coil outlet S2	S2o, mm, Rp1"	674	812	894	952	1062	1160	1220	1350	1420	
Prolonged power acc. to DIN 4708; 80°C/60°C/45°C S1	kW (m3/h)	25(0.61)	29(0.71)	53(1.30)	62(1.52)	72(1.77)	80(1.97)	105(2.58)	131(3.22)	180(4.42)	
Prolonged power acc. to DIN 4708; 80°C/60°C/45°C, S2	kW (m3/h)	15(0.37)	18(0.44)	21(0.52)	27(0.66)	34(0.84)	50(1.23)	62(1.52)	74(1.82)	110(2.70)	
NL – power coefficient at 60°C, S1/S2	NL 60°C	2.5/1	4.5/1.5	1½	13/2.2	18/2.8	32/10	42/28	64/34	80/55	
Pressure drop Δp, S1/S2	Δp, mbar	65/48	75/55	120/70	180/80	210/90	210/150	260/110	310/260	420/300	
Sensor sleeve for thermostat	G, mm, Rp½"	788	1037	1104	1054	1206	1435	1487	1487	1685	
Air vent sleeve	F, mm, Rp1"	1070	1340	1410	1480	1710	1950	2020	2320	2311	
Inspection opening/Flange	O, mm, Ø, mm	180/309 Ø 110	180/309 Ø 110	180/320 Ø 110	180/450 Ø 110	180/450 Ø 110	280/450 Ø 200	280/460 Ø 200	280/460 Ø 200	560/484 Ø 400	
Drain sleeve	Y, mm, Rp1"	30	30	30	30	30	30	30	30	30	^
Thermometer	T, mm, Rp½"	892	1138	1170	1152	1453	1630	1700	2089	1835	
Anode	P, mm, Rp1¼"	1070	1340	1410	1337	1568	1728	1798	2 x 2090	2 x 2003	
Sleeve for Electric element	U, mm, Rp1½"/752	Rp1½"/752	Rp1½"/645	Rp1½"/852	Rp1½"/901	Rp1½"/1111	Rp1½"/1040	Rp1½"/1140	2 x Rp1½"/1220	2 x Rp1½"/1340	



on water tank  
body

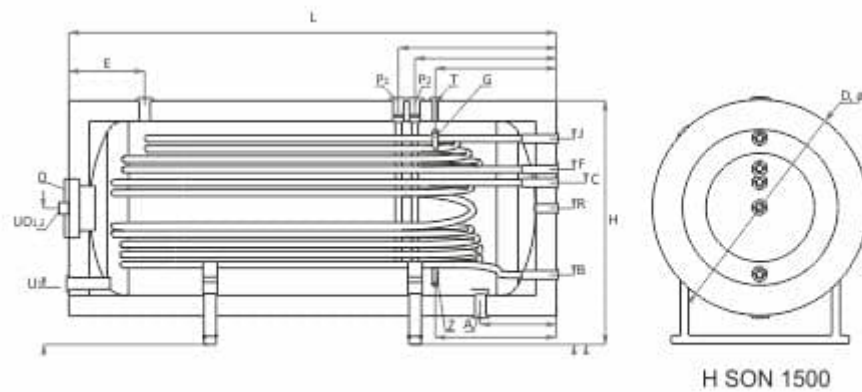
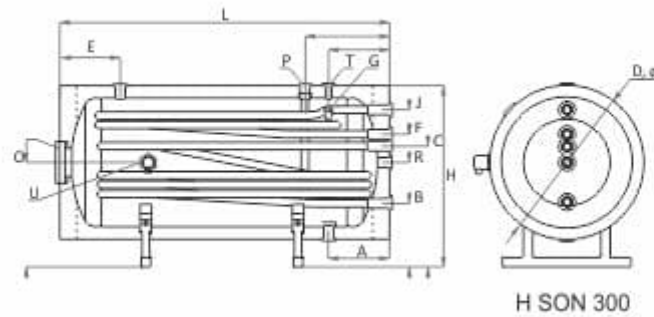
Sleeve for  
Electric element  
on inspection  
opening flange

Uo, mm,	Rp1½" /309	Rp1½" /309	Rp1½" /320	Rp1½" / 450	Rp1½" /450	Rp1½" /450	Rp1½" /460	Rp1½" /460	2 x Rp1½" /484
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Additional  
sensor sleeve

Z, mm, Rp½"	352/631	302/752	320/852	450/901	450/1011	535/1040	520/1140	520/1220	745/1340
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**Horizontal models:**



		HSO 300	HSO 500	HSO 1000	HSO 1500
Capacity	(L)	300	500	1000	1500
Height / Length	H, L, mm	790/1410	890/1710	1190/2080	1190/2380
Diameter	D, mm	Ø 660	Ø 750	Ø 1050	Ø 1050
Insulation		50 mm rigid PPU		100 mm soft PPU, removable	
Oper. pressure / max. temperature	bar/0C	10/95	10/95	10/95	10/95
Test pressure of tank	bar	15	15	15	15
Electric heating element (optional)	kW	1 x (3÷7.5)	1 x (3÷7.5)	2 x 7.5	3 x 7.5
Weight	kg	118	185	315	423
Cold water inlet	A, mm	Rp1"/260	Rp1½"/270	Rp1½"/360	Rp1½"/360
Hot water outlet	B, mm	Rp1"/260	Rp1½"/270	Rp1½"/320	Rp1½"/320
Recirculation	R, mm	Rp1"/465	Rp1"/515	Rp1"/665	Rp1"/665
Operating pressure / Max.Coils temp. S1/S2	bar/0C	16/110	16/110	16/110	16/110
Test pressure S1/S2	bar	25	25	25	25
Coil capacity S1/S2	L	7.40/5.55	11.10/7.40	16.65/11.72	18.50/15.42
Heat exchange surface S1/S2	m <sup>2</sup>	1.2/0.9	1.8/1.2	2.7/1.9	3/2.5
Lower coil inlet/outlet S1	S1i, S1o, mm, Rp1"	535/290	585/325	790/340	790/340
Upper coil inlet/outlet S2	S2i, S2o, mm, Rp1"	697/610	785/655	1005/855	1005/855
Prolonged power acc. to DIN 4708; 80°C/60°C/45°C S1/S2	S1/S2, kW (m <sup>3</sup> /h)	53(1.30)/ 21(0.52)	72(1.77)/ 34(0.84)	105(2.58)/ 62(1.52)	131(3.22)/ 74(1.82)
NL – power coefficient at 60°C, S1/S2	S1/S2, NL 60°C	1½	18/2.8	42/28	64/34
Pressure drop Δp, S1/S2	S1/S2, Δp, mbar	120/70	210/90	260/210	310/260

Sensor sleeve for thermostat	G, mm, Rp½"	260	270	360	360
Inspection opening/Flange	O, mm, Ø, mm	180/465 Ø 110	180/515 Ø 110	280/665 Ø 200	280/665 Ø 200
Thermometer	T, mm, Rp½"	260	270	360	580
Anode	P, mm, Rp1¼"	360	370	460	2 x 690/770
Sleeve for Electric element on water tank body	U, mm, Rp1½"	–	–	–	Rp1½" /280
Sleeve for Electric element on inspection opening flange	Uo, mm,Rp1½"	Rp1½" /465	Rp1½" /515	2 x Rp1½" /665	2 x Rp1½" /665
Additional sensor sleeve	Z, mm, Rp1½"	–	–	360	580

## PRODUCTS

HEATING APPLIANCES

WATER HEATERS BUFFER TANKS

SOLAR COLLECTORS

INDUSTRIAL SOLUTIONS



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