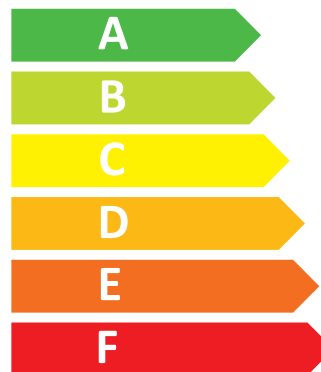


SUNSYSTEM

DUAL-COIL SOLAR WATER HEATERS



Floor installation. For direct / indirect heating and the possibility of connecting to a solar and heating system. Optionally, an electric heater can be added.



Energy efficiency
Directive 2010/30/EU,
Regulation 812/2013:Class C

Insulation	High efficiency insulation (DIN 4753-8): rigid PU, thickness 50 mm (up to 500 Liters) or removable insulation of fleece, with thickness of 100 mm (over 500 Liters). Outer lining of PVC with RAL 9006 color.
Water tank	Water tank of low-carbon steel S235JR. Complex corrosion protection realized by means of titanium enamel (DIN 4753-3) and anode protection (DIN 4753-6). Convenient inspection opening. Operating pressure: 10 bar Test pressure: 15 bar Maximum temperature: 95°C
Inlets/ Outlets	Connections for temperature sensor. All threads are internal.
One or two heat-exchanger coils (models SN/ SON / H-SN /H-SON)	Enables the tank to utilize an external sources of renewable energy. Operating pressure: 16 bar Test pressure: 25 bar Maximum temperature: 110°C
Base equipment	Thermometer. Sensor bushing. Safety valve, 8 bar. Adjustable foot for models up to 500 L. (See p. 72).
Optional equipment	Kit for electric heating (Electric heating element and Thermostat with integrated thermal protection) with an optional power (See p. 72).



SEL - without coil

Vertical models.

	Model	Code
150	SEL 150	09030106205001
200	SEL 200	09030106205002
300	SEL 300	09030106205004
400	SEL 400	09030106205005
500	SEL 500	09030106205006
750	SEL 750	09030106205007
1000	SEL 1000	09030106205008
1500	SEL 1500	09030106205009
2000	SEL 2000	09030106205010

H SEL - without coil

Horizontal models.

	Model	Code
200	H SEL 200	01035106205002
300	H SEL 300	01035106205004
500	H SEL 500	01035106205006
1000	H SEL 1000	01035106205008
1500	H SEL 1500	01035106205009



SN - with one coil

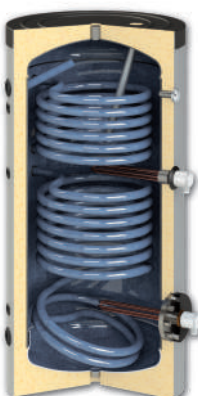
Vertical models.

	Model	Code
150	SN 150	09030106202001
200	SN 200	09030106202002
300	SN 300	09030106202004
400	SN 400	09030106202005
500	SN 500	09030106202006
750	SN 750	09030106202007
1000	SN 1000	09030106202008
1500	SN 1500	09030106202009
2000	SN 2000	09030106202010

H SN - with one coil

Horizontal models.

	Model	Code
200	H SN 200	01035106202002
300	H SN 300	01035106202004
500	H SN 500	01035106202006
1000	H SN 1000	01035106202008
1500	H SN 1500	01035106202009



SON - with two coils

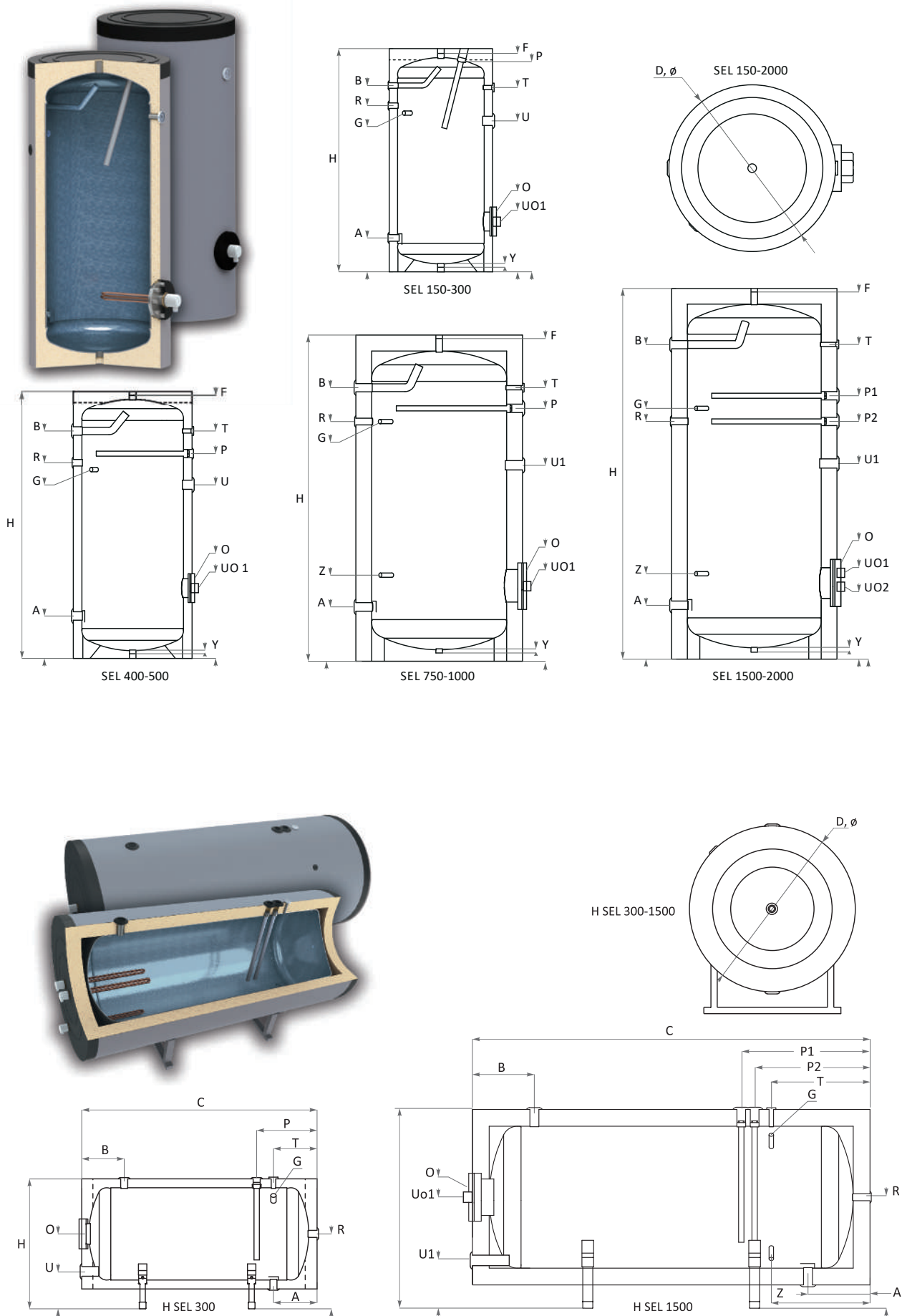
Vertical models.

	Model	Code
150	SON 150	09030106203001
200	SON 200	09030106203002
300	SON 300	01030106203004
400	SON 400	01030106203005
500	SON 500	01030106203006
750	SON 750	01030106203007
1000	SON 1000	01030106203008
1500	SON 1500	01030106203009
2000	SON 2000	09030106203010

H SON - with two coils

Horizontal models.

	Model	Code
300	H SON 300	01035106203004
500	H SON 500	01035106203006
1000	H SON 1000	01035106203008
1500	H SON 1500	01035106203009



General parameters

	H mm	D mm Ø	kg
150	1070	Ø560	50
200	1340	Ø560	68
300	1420	Ø660	86
400	1470	Ø750	123
500	1720	Ø750	140
750	2000	Ø950	210
1000	2050	Ø1050	245
1500	2310	Ø1050	342
2000	2310	Ø1350	645

Vertical modification SEL

Sleeves

	A mm	B mm	G mm Rp½"	F mm Rp1"	O mm	P mm Rp1¼"	R mm	T mm Rp½"	U/Uo mm Rp1½"	Y mm Rp1"	Z mm Rp½"
150	Rp1"/202	Rp1"/895	788	1070	Ø110x180/309	1070	Rp¾"/788	895	780/309	20	
200	Rp1"/202	Rp1"/1112	900	1340	Ø110x180/309	1340	Rp¾"/987	1138	850/309	20	
300	Rp1"/215	Rp1"/1182	1008	1410	Ø110x180/320	1410	Rp¾"/1055	1170	950/320	20	
400	Rp1¼"/270	Rp1¼"/1204	950	1480	Ø110x180/450	1079	Rp1"/1005	1204	900/450	20	
500	Rp1½"/270	Rp1½"/1453	1208	1710	Ø110x180/450	1340	Rp1"/1250	1453	1130/450	20	
750	Rp1½"/300	Rp1½"/1630	1435	1950	Ø200x280/450	1435	Rp1"/1405	1630	1040/450	20	535
1000	Rp1½"/320	Rp1½"/1700	1487	2020	Ø200x280/460	1570	Rp1"/1487	1700	1155/460	40	520
1500	2xRp1½"/320	2xRp1½"/1975	1487	2320	Ø200x280/460	2x 1570/1650	Rp1"/1487	1975	2x1220/460	40	520
2000	2xRp1½"/385	2xRp1½"/1885	1685	2311	Ø400x560/484	2x 1625/1705	Rp1"/1635	1835	3x1340/484	30	745

General parameters

	H mm	C mm	D mm Ø	kg
200	695	1340	Ø560	68
300	790	1410	Ø660	86
500	890	1710	Ø750	140
1000	1190	2080	Ø1050	245
1500	1190	2380	Ø1050	342

Horizontal modification H SEL

Inlets / Outlets

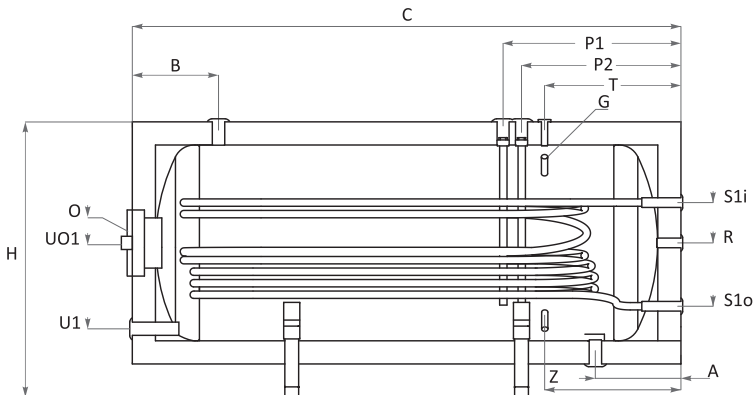
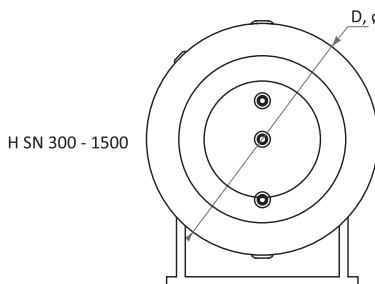
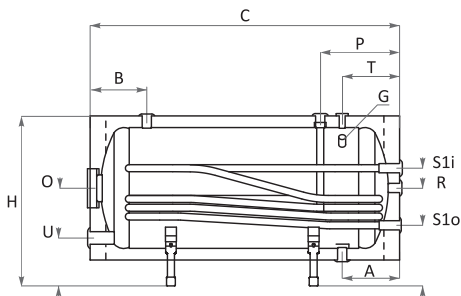
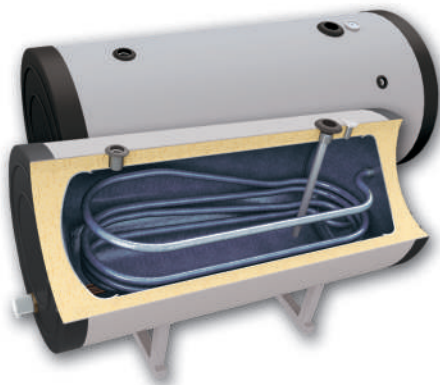
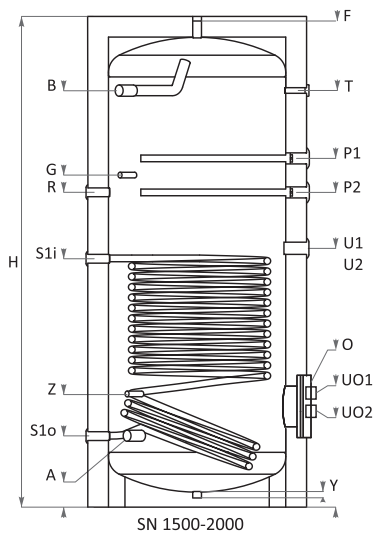
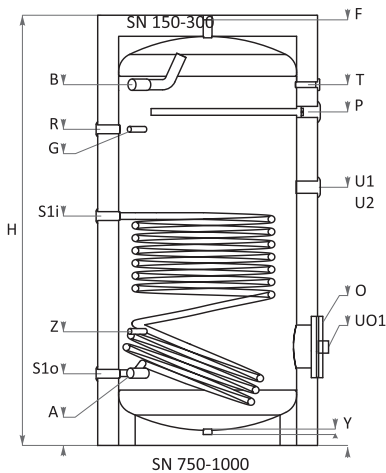
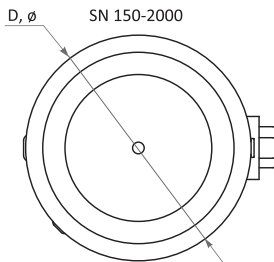
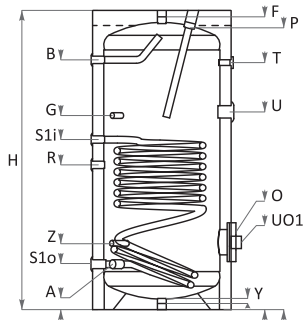
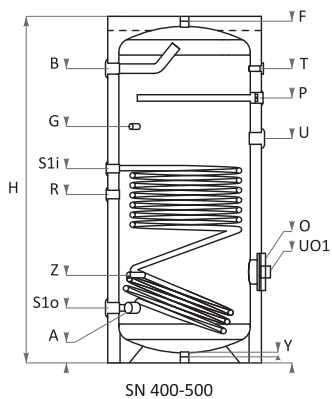
	A mm	B mm	G mm Rp½"	O mm	P mm Rp1¼"	R mm Rp1"	T mm Rp½"	U/Uo mm Rp1½"	Z mm Rp½"
200	Rp1"/220	Rp1"/220	220	Ø110x180/420	320	420	220	195/420	
300	Rp1"/260	Rp1"/260	260	Ø110x180/465	360	465	260	258/465	
500	Rp1½"/270	Rp1½"/270	270	Ø110x180/515	370	515	270	245/515	
1000	Rp1½"/370	Rp1½"/320	370	Ø200x280/665	470	665	370	2x280/665	370
1500	Rp1½"/360	Rp1½"/320	580	Ø200x280/665	2x 680/770	665	580	2x280/665	580

General parameters

L	Capacity
H, mm	Height / Min. vert. clearance
C, mm	Length
ØD, mm	Diameter
kg	Weight

Inlets / Outlets

A, mm	Cold water inlet
B, mm	Hot water outlet
G, mm	Sensor sleeve for thermostat
F, mm	Air vent sleeve
O, mm	Inspection opening/Flange
P, mm	Anode (DIN 4753-6)
R, mm	Recirculation 8 bar
T, mm	Thermometer
U, mm	Sleeve for Electric element on water tank body
Uo, mm	Sleeve for Electric element on inspection opening flange
Y, mm	Drain sleeve
Z, mm	Additional sensor sleeve



General parameters				Heat-exchanger coil				Vertical models SN		
	H mm	D mm			S1 m ²	S1 L	S1 kW (m ³ /h)	S1 NL 60°C	S1 Δp, mbar	S1i/S1o mm Rp1"
150	1070	ø560	59		0.74	4.56	25 (0.61)	2.5	65	592/202
200	1340	ø560	73		0.9	5.55	29 (0.71)	4.5	75	692/202
300	1420	ø660	104		1.2	7.40	53 (1.30)	11	120	805/215
400	1470	ø750	145		1.5	9.25	62 (1.52)	13	180	850/270
500	1720	ø750	167		1.8	11.10	72 (1.77)	18	210	960/270
750	2000	ø950	242		2.1	12.95	80 (1.97)	32	210	970/300
1000	2050	ø1050	286		2.7	16.65	105 (2.58)	42	260	1080/320
1500	2310	ø1050	392		3	18.50	131 (3.22)	64	310	1180/320
2000	2310	ø1350	712		4.1	25.28	180 (4.42)	80	420	1635/385

Inlets / Outlets											
	A mm	B mm	G mm Rp½"	F mm Rp1"	O mm	P mm Rp1½"	R mm	T mm Rp½"	U/Uo mm Rp1½"	Y mm Rp1"	Z mm Rp½"
150	Rp1"/202	Rp1"/868	822	1070	ø110x180/309	1070	Rp¾"/450	868	780/309	20	422
200	Rp1"/202	Rp1"/1340	892	1340	ø110x180/309	1340	Rp¾"/500	1138	850/309	20	392
300	Rp1"/215	Rp1"/1165	1897	1410	ø110x180/320	1410	Rp¾"/663	1170	950/320	20	407
400	Rp1¼"/270	Rp1¼"/1204	950	1480	ø110x180/450	1079	Rp1"/673	1204	900/450	20	450
500	Rp1½"/270	Rp1½"/1453	1168	1710	ø110x180/450	1340	Rp1"/831	1453	1130/450	20	568
750	Rp1½"/300	Rp1½"/1630	1435	1950	ø200x280/450	1435	Rp1"/1405	1630	1040/450	20	535
1000	Rp1½"/320	Rp1½"/1700	1487	2020	ø200x280/460	1570	Rp1"/1497	1700	2x1155/460	40	520
1500	2xRp1½"/320	2xRp1½"/1975	1487	2320	ø200x280/460	2x2090	Rp1"/1497	1975	2x1210/3x460	40	520
2000	2xRp1½"/385	2xRp1½"/1885	1685	2311	ø400x560/484	2x2003	Rp1"/1635	1835	2x1340/3x484	30	745

General parameters					Heat-exchanger coil				Horizontal models H SN		
	 H mm	 C mm	 D mm	 kg		S1 m ²	S1 L	S1 kW (m ³ /h)	S1 NL 60°C	S1 Δp, mbar	S1i/S1o mm Rp1"
200	695	1340	ø560	73		0.9	5.55	29 (0.71)	4.5	75	692/202
300	790	1410	ø660	104		1.2	7.40	53 (1.30)	11	120	805/215
500	890	1710	ø750	167		1.8	11.10	72 (1.77)	18	210	960/270
1000	1190	2080	ø1050	286		2.7	16.65	105 (2.58)	42	260	1080/320
1500	1190	2380	ø1050	392		3	18.50	131 (3.22)	64	310	1180/320

Inlets / Outlets									
	A mm	B mm	G mm Rp½"	O mm	P mm Rp1½"	R mm Rp1"	T mm Rp½"	U/Uo mm Rp1½"	Z mm Rp½"
200	Rp1"/220	Rp1"/220	220	ø110x180/420	320	420	220	240/420	
300	Rp1"/260	Rp1"/260	260	ø110x180/465	360	465	260	238/465	
500	Rp1½"/270	Rp1½"/270	270	ø110x180/515	370	515	270	245/515	
1000	Rp1½"/360	Rp1½"/340	360	ø200x280/665	460	665	360	280/665	360
1500	Rp1½"/360	Rp1½"/340	360	ø200x280/665	2x 690/770	665	580	2x280/665	580

General parameters			Inlets / Outlets			Heat-exchanger coil		
L	Capacity		A, mm	Cold water inlet		S1	Lower coil	
H, mm	Height		B, mm	Hot water outlet		S1, m ²	Heat exchange surface S1	
C, mm	Length		G, mm	Sensor sleeve for thermostat		S1, L	Coil capacity S1	
øD, mm	Diameter		F, mm	Air vent sleeve		S1, kW (m ³ /h)	Prolonged power acc. to DIN 4708; 80°C/60°C/45°C, S1	
kg	Weight		O, mm	Inspection opening / flange		S1, NL 60°C	NL- power coefficient at 60°C, S1	
			P, mm	Anode		S1, Δp, mbar	Pressure drop Δp, S1	
			R, mm	Recirculation		S1i/S1o mm	Inlet/Outlet Lower coil S1	
			T, mm	Thermometer				
			U, mm	Sleeve for Electric element on water tank body				
			Uo, mm	Sleeve for Electric element on inspection opening flange				
			Y, mm	Drain sleeve				
			Z, mm	Additional sensor sleeve				

