

Glass lined water heater with fixed internal heat exchanger – SMART 2

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Features

✓ **Material:** ST 235 JR carbon steel

✓ **Treatment for internal protection:**

The boilers with a capacity of up to 1000 l are treated with food grade inorganic glass lining in accordance with DIN 4753.3, those with a capacity of 1500 to 3000 l with Bluetech.

✓ **Insulation:**

The boilers with a capacity of 200 to 1000 litres are insulated with high-density rigid polyurethane with a thickness of 75 mm

The boilers with a capacity of 1500 to 3000 litres are insulated with soft polyurethane with a thickness of 100 mm.

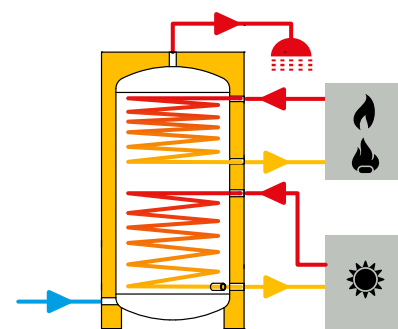
✓ **Optional accessories:**

Thermometer, thermostat, impressed current electronic anode, electrical resistance.

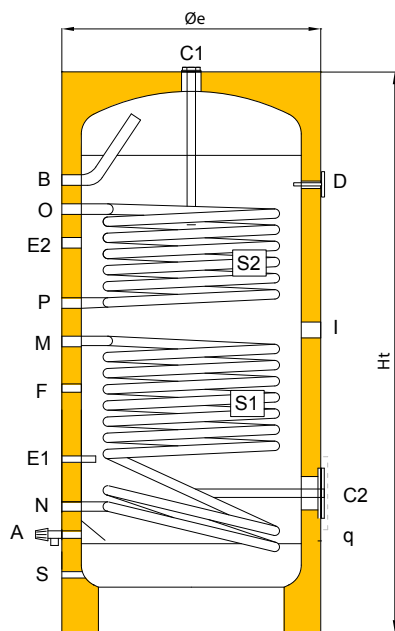


	Storage		Primary circuit	
	temperature max.	pressure max.	temperature max.	pressure max.
V≤1000 l	95°C	10 bar	110°C	12 bar
1500≤V≤5000 l	80°C	6 bar	110°C	12 bar

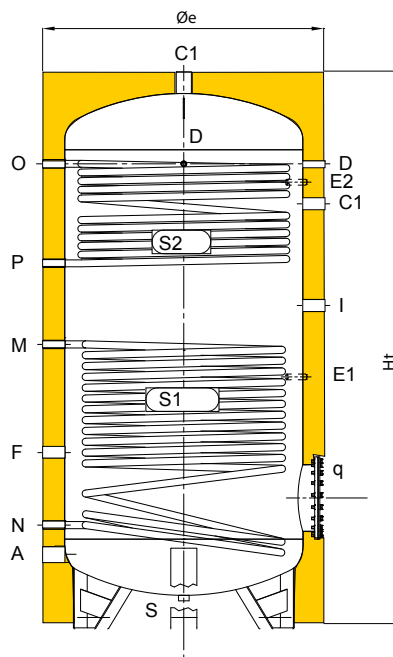
capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
200	819060114X		C	75x75x120	98
300	819060115X		C	75x75x168	133
400	819060116X		D	75x75x180	162
500	819060117X		D	75x75x204	215
750	819060118X			97x97x229	296
1000	819060119X			115x115x215	475
1500	819080003X			123x123x237,5	281
2000	819080004X			132x132x269,5	366
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SMART 2 200-1000 l



SMART 2 1500-3000 l

Legend couplings

A	domestic water inlet
B	domestic water outlet
C1	anode
C2	anode
D	thermometer
E1	probe
E2	probe
F	recirculation
I	electrical resistor
M	primary circuit inlet
N	primary circuit outlet
O	superior exchanger inlet
P	superior exchanger outlet
S	discharge
q	inspection hole

Coupling chart

capacity l	A inch	B inch	C1 inch	C2	D mm	E1 mm	E2 mm	F inch	I inch	M inch	N inch	O inch	P inch	S inch	q mm
200	1"	1"	2"	M8	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180
300	1"	1"	2"	M8	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180
400	1"	1"	2"	M8	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180
500	1"	1"	2"	M8	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180
750	1"	1"	2"	M8	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180
1000	1"	1"	2"	M8	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180
1500	2"	2"	1 1/4"	-	1/2"	1/2"	-	1 1/4"	1 1/2"	1"	1"	1"	1"	1 1/4"	Ø 300/380
2000	2"	2"	1 1/4"	-	1/2"	1/2"	-	1 1/4"	1 1/2"	1"	1"	1"	1"	1 1/4"	Ø 300/380
3000	3"	3"	1 1/4"	-	1/2"	1/2"	-	1 1/4"	1 1/2"	1"	1"	1"	1"	1 1/4"	Ø 300/380

Height chart

capacity l	Øe mm	Ht mm	R' mm	A mm	B mm	E1 mm	E2 mm	F mm	M mm	N mm	O mm	P mm
200	670	1140	1323	130	975	345	780	450	580	210	895	685
300	670	1450	1598	210	1260	440	1015	650	760	290	1190	845
400	700	1660	1802	240	1410	570	1150	650	870	320	1330	980
500	700	1890	2016	240	1650	530	1260	850	970	320	1440	1090
750	855	2050	2222	350	1770	650	1330	910	1030	430	1480	1180
1000	1055	1960	2226	370	1590	600	1250	750	1000	450	1400	1100
1500	1200	2255	2555	345	2255	1060	1740	785	1215	485	1830	1430
2000	1300	2575	2885	345	2575	1165	2065	815	1325	490	2150	1690
3000	1450	2870	3216	400	2870	1375	2225	875	1540	550	2410	1680

R': reversal quota

Technical information for SMART 2 series

Capacity	Ti	DHW production TiACS = 10°C						Upper	Lower	Nominal flow
		TuACS= 45°C		TuACS = 60°C		Ta = 50°C	Ta = 60°C	Exchanger	Exchanger	
		L/h (a)	kW (b)	L/h (c)	kW (d)	L/10 min. (e)	L/10 min. (f)	Surface area	Surface area	
l	°C						m²	m²	mc/h	
200	70	417	17	206	12	282	324	0.7	1	3
	80	540	22	292	17	302	345			
	90	614	25	361	21	315	357			
300	70	638	26	309	18	425	489	1.1	1.4	3
	80	860	35	481	28	462	526			
	90	1007	41	584	34	486	550			
400	70	638	26	309	18	531	616	1.1	1.8	3
	80	860	35	481	28	568	653			
	90	1007	41	584	34	593	678			
500	70	638	26	309	18	638	744	1.1	2	3
	80	860	35	481	28	675	781			
	90	1007	41	584	34	699	806			
750	70	688	28	344	20	912	1072	1.2	2.4	3
	80	933	38	516	30	953	1112			
	90	1081	44	636	37	978	1137			
1000	70	884	36	430	25	1211	1423	1.5	2.7	3
	80	1179	48	653	38	1260	1473			
	90	1376	56	808	47	1293	1505			
1500	70	1326	54	653	38	1816	2135	3.7	2.3	6.0
	80	1793	73	980	57	1894	2213			
	90	2113	86	1238	72	1947	2267			
2000	70	1744	71	860	50	2418	2843	4.3	3.0	8.0
	80	2334	95	1290	75	2516	2942			
	90	2727	111	1599	93	2582	3007			
3000	70	2211	90	1083	63	3559	4198	5.2	3.8	8.0
	80	2948	120	1634	95	3682	4321			
	90	3440	140	2029	118	3764	4403			

- a continuous DHW flow with TuACS= 45°C
- b power of the exchanger with TuACS=45°C
- c continuous DHW flow with TuACS= 60°C
- d power of the exchanger with TuACS=60°C
- e amount of DHW at 45°C in the first 10 min. with a storage temperature of 50°C
- f amount of DHW at 45°C in the first 10 min. with a storage temperature of 60°C
- Exchanger capacity: 710 Lt/mq

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