

Stainless steel water heater with fixed heat exchanger - SMART INOX 2

The SMART INOX 2 gamma consists of water heaters for the production of domestic hot water with a double fixed heat exchanger. They are available in several capacities, from 200 up to 3000 litres and are insulated with very thick high density rigid polyurethane, externally covered in red PVC and equipped with a magnesium anode for the protection against galvanic currents, an inspection flange for the easy access during the inspection and maintenance phase and a safety valve.

Features

✓ Special versions:

The SMART INOX 1 water heaters can be customized on request in order to meet specific requirements, such as: customized dimensions, flanged couplings, customized couplings, thicker insulation, thick aluminium coating or other needs.

✓ **Material:** AISI 316 stainless steel

✓ Insulation:

All tanks are insulated with flexible polyurethane with a thickness of 100mm. The insulation can be removed, which makes it easier to install the tank in small spaces.

✓ Accessories on request:

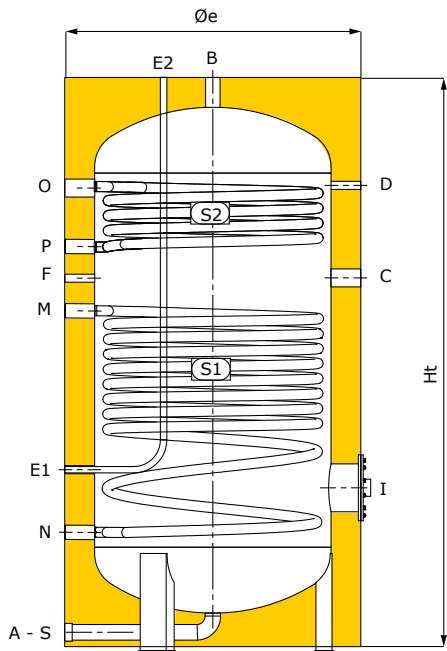
Thermometer, thermostat, impressed current electronic anode, resistance



Storage		Primary circuit	
max. temperature	max. pressure	max. temperature	max. pressure
95°C	6 bar	95°C	16 bar

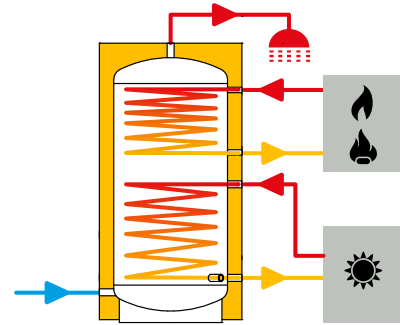
capacity l	code	price	energy label	packed
				dimensions cm
200	819040068X		C	75x75x120
300	819040069X		C	75x75x168
400	819040070X		C	75x75x180
500	819040071X		D	75x75x204
600	819040097X			75x75x204
800	819040072X			97x97x229
1000	819040073X			115x115x215
1500	819040074X			123x123x237.5
2000	819040075X			132x132x269.5
2500	819040102X			147x147x299
3000	819040103X			147x147x299

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Legend couplings

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



Coupling chart

capacity l	A inch	B inch	C inch	D inch	E1-E2 mm	F inch	I inch	M inch	N inch	O inch	P inch	S inch	q mm
200	1"	1"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	3/4"	3/4"	3/4"	3/4"	1"	100/160
300	1"	1"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1"	1"	1"	1"	1"	100/160
400	1"	1"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1"	1"	1"	1"	1"	100/160
500	1"	1"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1"	1"	1"	1"	1"	100/160
600	1"	1"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1"	1"	1"	1"	1"	100/160
800	1 1/4"	1 1/4"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	100/160
1000	1 1/4"	1 1/4"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	160/220
1500	1 1/2"	1 1/2"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	220/300
2000	1 1/2"	1 1/2"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	220/300
2500	1 1/2"	1 1/2"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	220/300
3000	1 1/2"	1 1/2"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	220/300

Height chart

capacity l	Øe mm	Ht mm	R*	E1 mm	F mm	I mm	M mm	N mm	O mm	P mm	q mm
200	650	1470	1608	425	870	870	770	265	1170	990	385
300	750	1510	1687	445	965	965	790	285	1190	1040	405
400	800	1700	1879	420	930	1050	765	260	1420	1270	380
500	800	1950	2108	420	1050	1060	885	260	1670	1445	380
600	850	2050	2220	500	1130	1130	1060	340	1745	1525	460
800	990	1920	2161	545	1185	1185	1005	395	1540	1360	505
1000	1000	2190	2408	555	1335	1335	1155	405	1800	1560	515
1500	1200	2200	2506	565	1295	1315	1115	415			545
2000	1400	2280	2676	600				450			580
2500	1400	2530	2892	600				450			580
3000	1450	2800	3154	615	1345	1645	1265	465	2365	2060	595

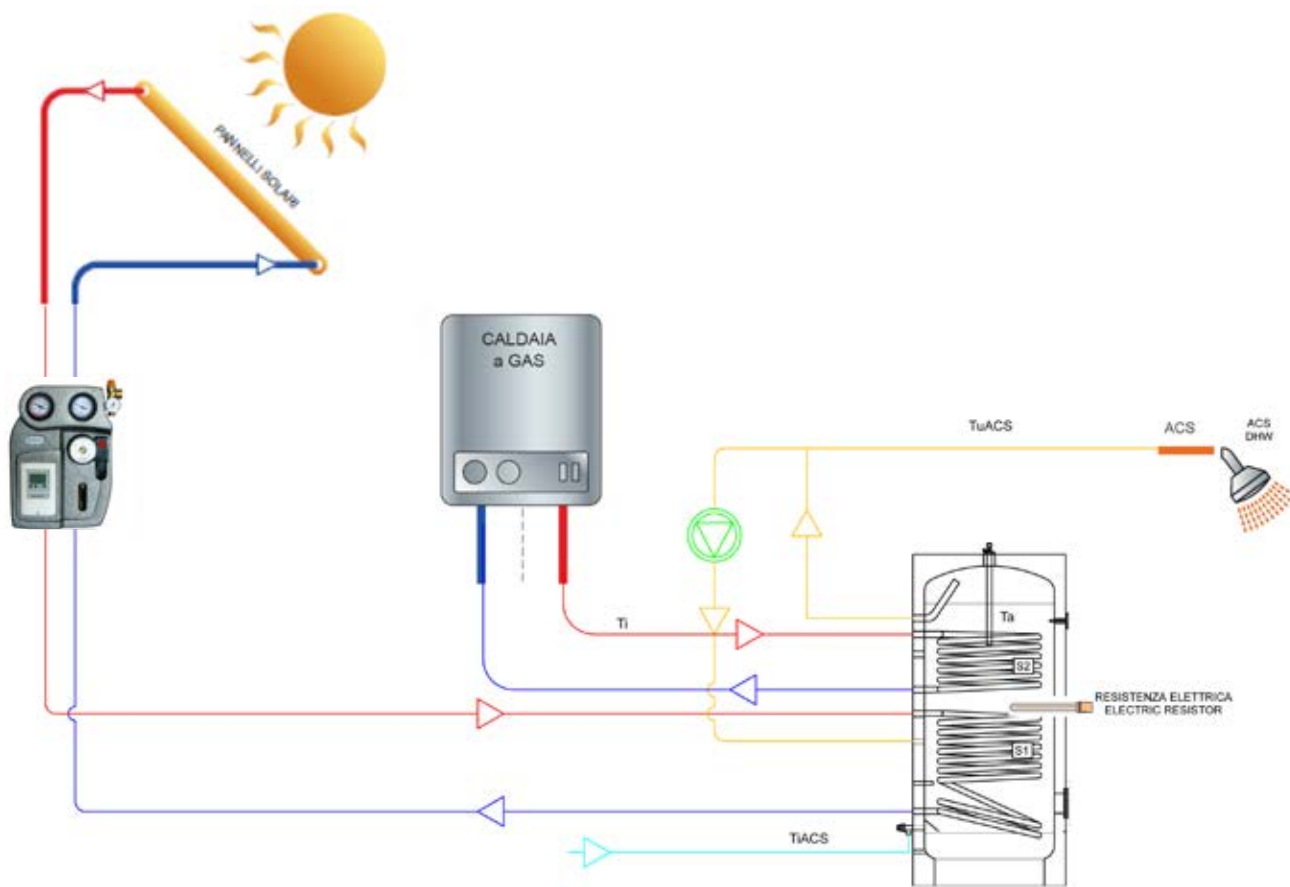
R*: reversal quota

Technical information for SMART INOX 2 series

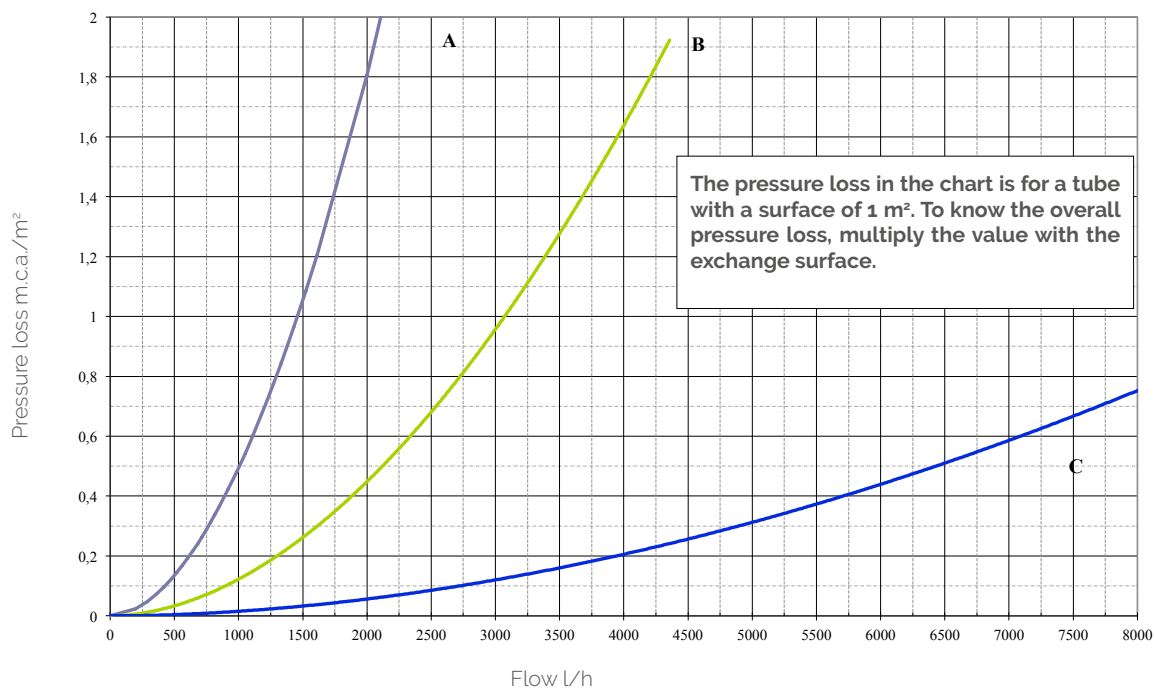
Capacity	Ti	DHW production TiDHW = 10°C						Upper	Lower	Nominal flow
		TuDHW = 45°C		TuDHW = 60°C		Ta = 50°C	Ta = 60°C	exchanger	exchanger	
		L/h (a)	kW (b)	L/h (c)	kW (d)	L/10 min. (e)	L/10 min. (f)	Surface area	Surface area	
l	°C						m ²	m ²	mc/h	
200	70	270	11	137	8	257	300	1,0	0,5	3,0
	80	368	15	206	12	274	316			
	90	442	18	258	15	286	328			
300	70	344	14	154	9	376	440	1,3	0,6	3,0
	80	442	18	258	15	392	456			
	90	516	21	309	18	405	468			
400	70	344	14	172	10	482	567	1,3	0,6	3,0
	80	466	19	258	15	503	588			
	90	540	22	309	18	515	600			
500	70	589	24	292	17	630	736	1,9	1,0	3,0
	80	786	32	430	25	662	769			
	90	909	37	533	31	683	789			
600	70	565	23	275	16	732	860	1,9	1,0	3,0
	80	761	31	430	25	765	892			
	90	909	37	533	31	789	917			
800	70	688	28	344	20	965	1135	2,4	1,2	4,0
	80	933	38	516	30	1006	1176			
	90	1081	44	636	37	1031	1201			
1000	70	688	28	344	20	1178	1391	3,2	1,2	6,0
	80	933	38	516	30	1219	1432			
	90	1081	44	636	37	1243	1456			
1500	70	909	37	447	26	1747	2066	4,0	1,6	6,0
	80	1228	50	688	40	1800	2119			
	90	1449	59	860	50	1837	2156			
2000	70	1154	47	567	33	2319	2745	4,8	2,0	8,0
	80	1548	63	860	50	2385	2811			
	90	1818	74	1066	62	2430	2856			
2500	70	1400	57	688	40	2892	3424	5,6	2,4	8,0
	80	1867	76	1049	61	2970	3502			
	90	2211	90	1290	75	3028	3559			
3000	70	1400	57	688	40	3424	4063	6,4	2,4	8,0
	80	1867	76	1032	60	3502	4140			
	90	2186	89	1290	75	3555	4194			

- a continuous DHW flow with TuDHW= 45°C
- b exchanger power with TuDHW=45°C
- c continuous DHW flow with TuDHW= 60°C
- d exchanger power with TuDHW=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: 7.10 Lt/mq

Technical information for SMART INOX 2 series



Pressure loss fixed heat exchanger



A) 200 l tank B) 300 - 600 l tank C) 800 - 3000 l tank