

Glass lined water heater with a fixed heat exchanger for Heat pumps – SMART HP

The HP gamma consists of water heaters for the production of domestic hot water with a single heat fixed heat exchanger and a double spiral with a large surface, to be coupled with a heat pump. The heaters are available in several capacities, from 300 to 1000 l and are insulated with very thick high density rigid polyurethane, externally covered with metal-coloured PVC and provided with a magnesium anode to protect against galvanic currents and an inspection flange for easy access during the inspection and maintenance phase. The tanks with a capacity of up to 500 litres are supplied with a safety valve and adjustable feet (easier to place and more stable).

Features

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

✓ **Treatment for internal protection:**

Food grade inorganic glass lining according to DIN 4753.3

✓ **Insulation:**

high-density rigid polyurethane with a thickness of 75 mm

✓ **Optional accessories:**

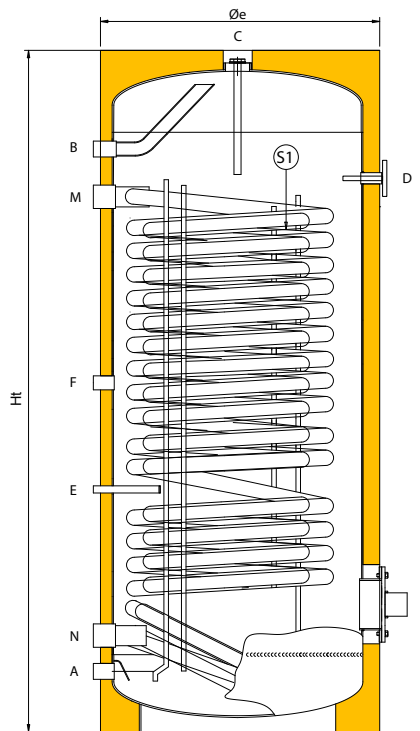
Thermometer, thermostat, impressed current electronic anode, electrical resistance.



Storage		Primary circuit	
max. temperature	max. pressure	max. temperature	max. pressure
95°C	10 bar	110°C	12 bar

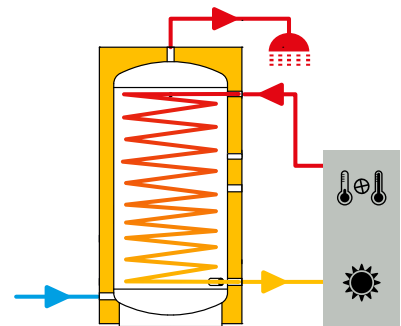
capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
300	819060121X		C	75x75x168	177
400	819060122X		C	75x75x180	206
500	819060123X		D	75x75x204	239
750	819060124X			97x97x229	318
1000	819060125X			115x115x215	409

Glass lined water heater with a fixed heat exchanger for Heat pumps – SMART HP



Legend couplings

A	domestic water inlet
B	domestic water outlet
C	anode
D	thermometer
E	probe
F	recirculation
I	electrical resistor
M	primary circuit inlet
N	primary circuit outlet
q	inspection hole



Coupling chart

capacity l	A inch	B inch	C inch	D mm	E mm	F inch	I inch	M inch	N inch	q mm
300	1"	1"	1 1/4"	1/2"	Ø 16 mm	3/8"	1 1/2"	1 1/4"	1 1/4"	Ø 115/180
400	1"	1"	1 1/4"	1/2"	Ø 16 mm	3/8"	1 1/2"	1 1/4"	1 1/4"	Ø 115/180
500	1"	1"	1 1/4"	1/2"	Ø 16 mm	3/8"	1 1/2"	1 1/4"	1 1/4"	Ø 115/180
750	1 1/4"	1 1/4"	1 1/4"	1/2"	Ø 16 mm	3/8"	1 1/2"	1 1/4"	1 1/4"	Ø 115/180
1000	1 1/4"	1 1/4"	1 1/4"	1/2"	Ø 16 mm	3/8"	1 1/2"	1 1/4"	1 1/4"	Ø 115/180

Height chart

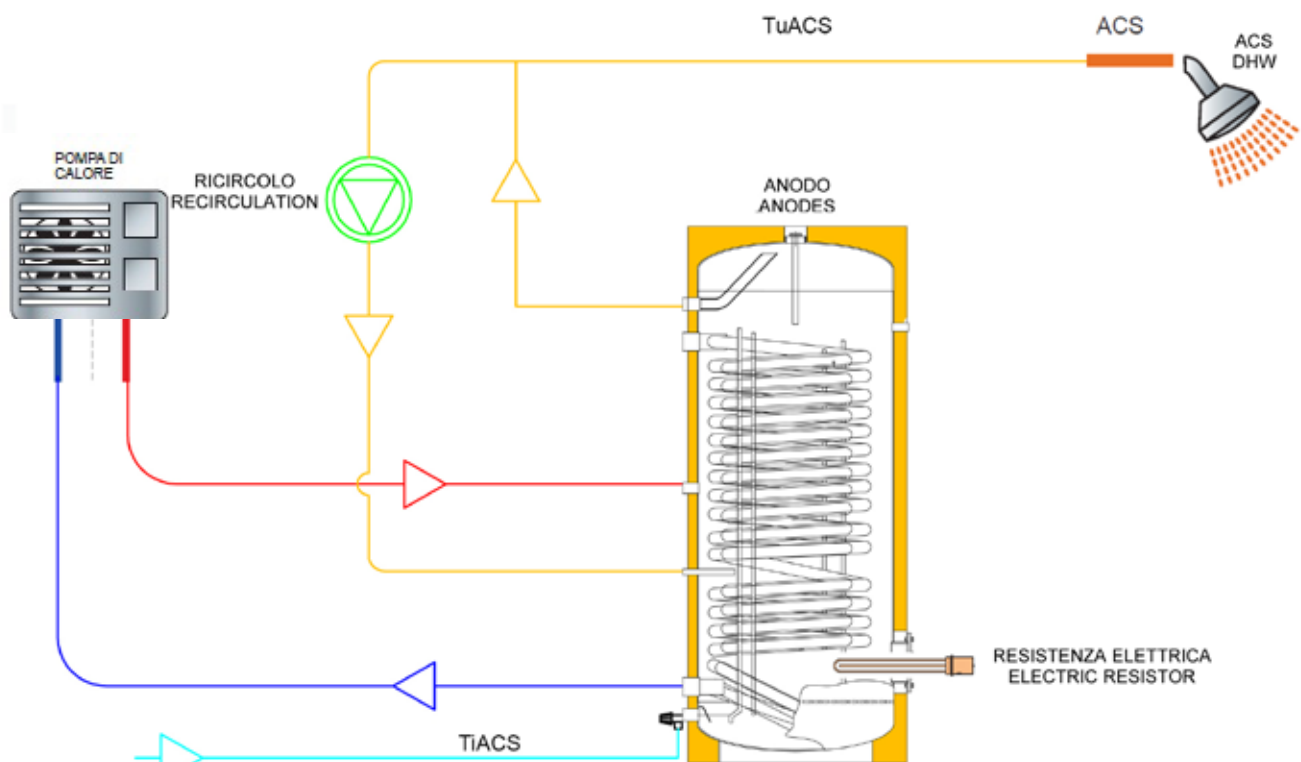
capacity l	Øe mm	Ht mm	R* mm	A mm	B mm	E mm	F mm	M mm	N mm
300	670	1450	1598	130	1240	550	770	1035	215
400	700	1620	1765	150	1400	560	840	1285	235
500	700	1850	1979	150	1640	560	840	1385	235
750	855	2140	2305	250	1750	670	1270	1390	370
1000	1055	2050	2306	210	1570	690	1125	1245	375

R*: reversal quota

Technical information for SMART HP series

Capacity L	Ti °C	DHW production $T_{iDHW} = 10^{\circ}\text{C}$			Exchanger	
		TuDHW= 45°C		Ta = 50°C TuDHW = 45°C	Surface area m ²	Nominal flow mc/h
		L/h (a)	kW (b)	L/10 min. (e)		
300	50	688	28	433	3,8	4,0
	80	2236	91	691		
400	50	860	35	568	5	4,0
	80	2334	95	814		
500	50	958	39	691	6	4,0
	80	2432	99	937		
750	50	982	40	961	6,5	4,0
	80	3390	138	1362		
1000	50	982	40	1227	6,5	4,0
	80	3390	138	1628		

- a continuous DHW flow with TuDHW= 45°C
- e amount of DHW at 45°C in the first 10 min. with a storage temperature of 50°C
- Exchanger capacity: 7.10 Lt/mq



Technical information for SMART HP series

Pressure loss fixed heat exchanger

