

# Glass lined water heater with a solar power station – SMART 2 SOLAR KIT

Water heater for the production of domestic hot water with a double fixed heat exchanger and a solar power station S2 SOLAR 30 - 25/6. The capacity is 300l. The water heater is equipped with very thick high-density rigid polyurethane insulation, external metal-coloured PVC coating, a magnesium anode for protection against galvanic currents, an inspection flange for easier access during the inspection and maintenance phase, a safety valve and adjustable feet (easier placement and more stability).

## 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:**

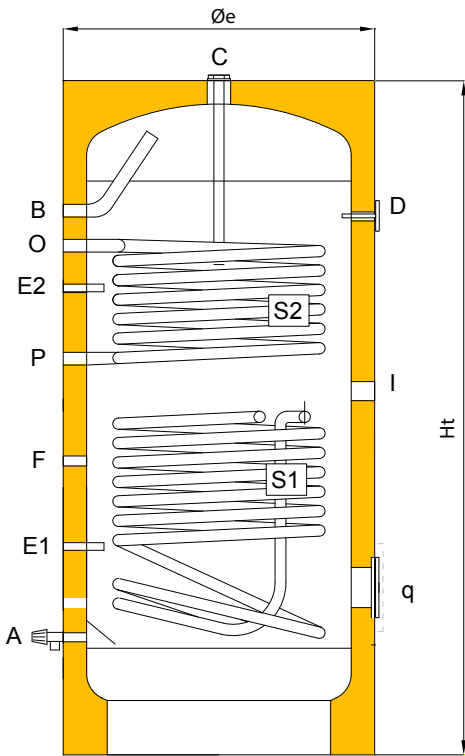
Thermometer, thermostat, impressed current electronic anode, electrical resistance.



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

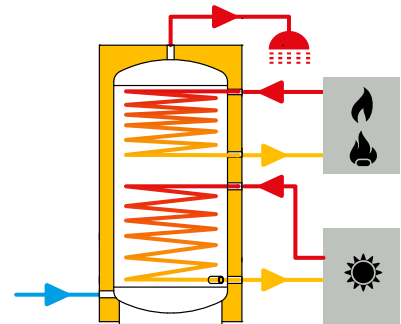
capacity l	code	price	energy label
300	838110066X		C

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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 superior exchanger inlet
- P superior exchanger outlet
- S discharge
- q inspection hole



## Coupling chart

capacity l	A inch	B inch	C inch	D mm	E1 mm	E2 mm	F inch	I inch	M inch	N inch	O inch	P inch	S inch	q mm
300	1"	1"	2"	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180

## Height chart

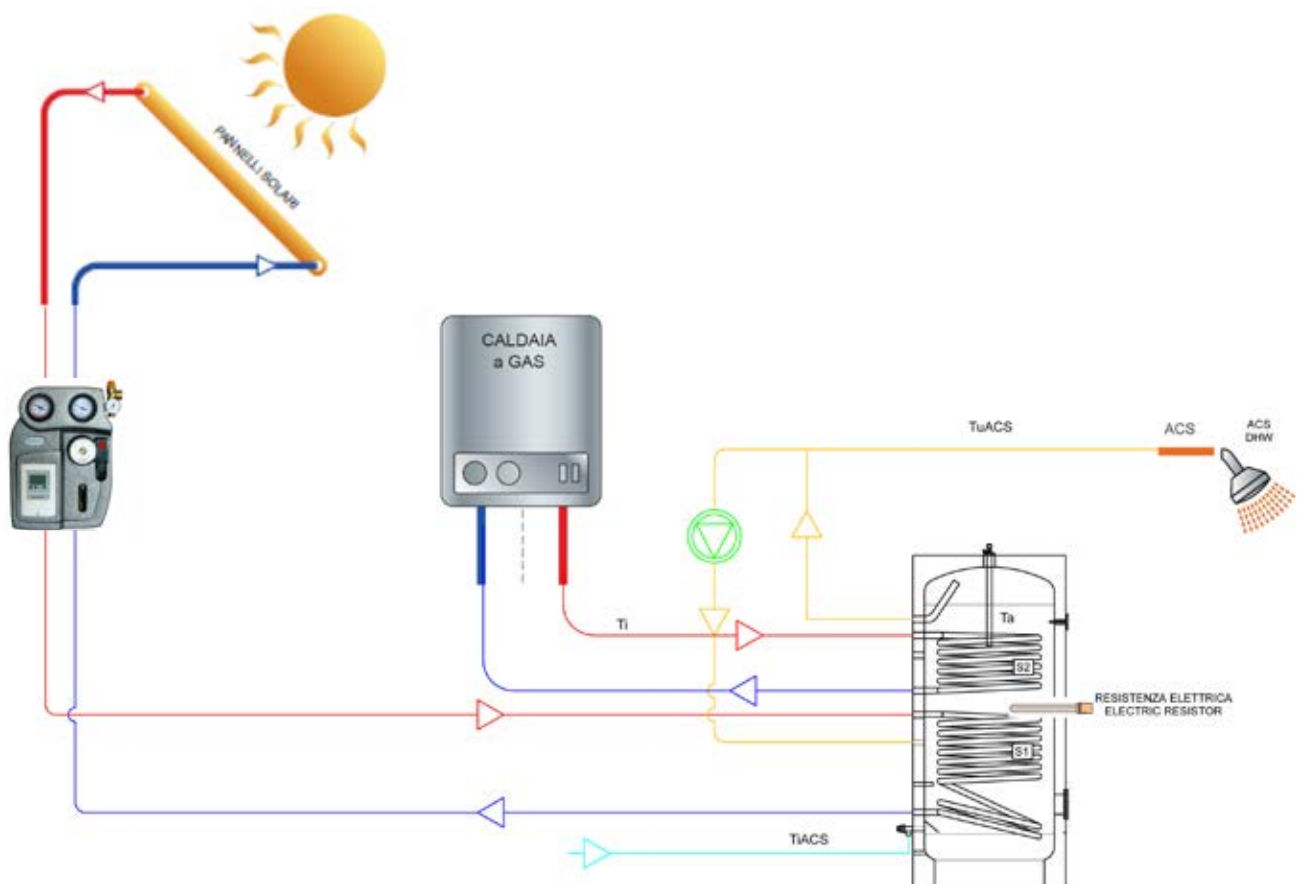
capacity l	Øe mm	Ht mm	R* mm	A mm	B mm	D mm	E1 mm	E2 mm	F mm	M mm	N mm	O mm	P mm	q mm
300	670	1360	1517	210	1250	950	385	1005	600	700	700	1175	1005	290

R\*: reversal quota

# Technical information for SMART 2 SOLAR KIT series

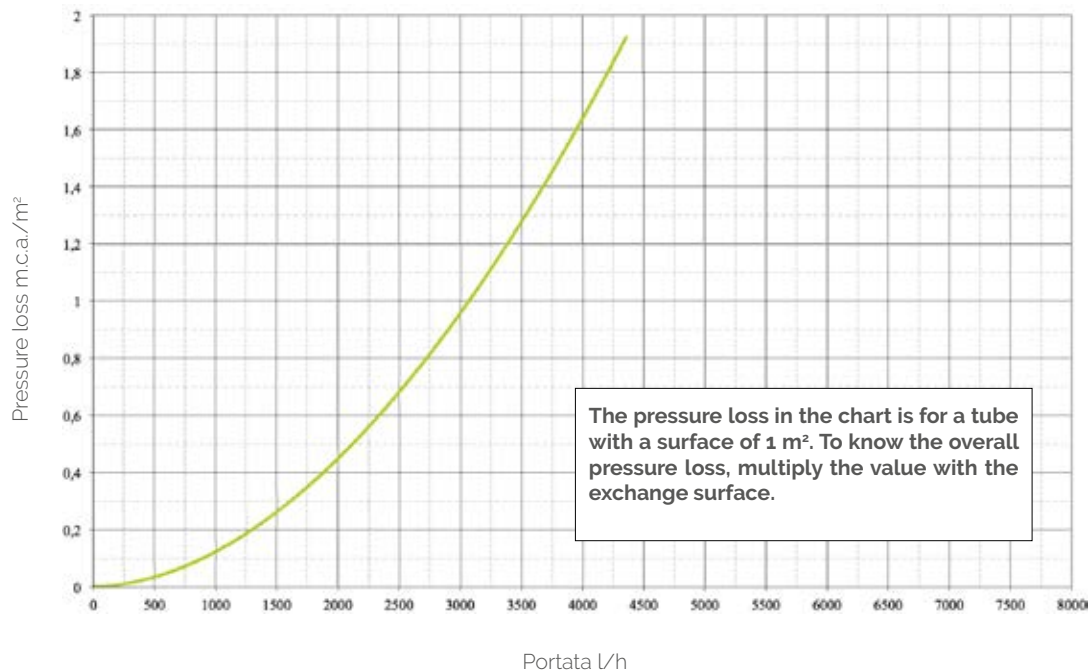
Capacity	Ti	DHW production TiACS = 10°C						Upper Exchanger	Lower Exchanger	Nominal flow
		TuACS = 45°C		TuACS = 60°C		Ta = 50°C TuACS = 45°C	Ta = 60°C TuACS = 45°C	Surface area	Surface area	
		L/h (a)	kW (b)	L/h (c)	kW (d)	L/10 min. (e)	L/10 min. (f)	m <sup>2</sup>	m <sup>2</sup>	
300	70	638	26	309	18	425	489	1.1	1.4	3
	80	860	35	481	28	462	526			
	90	1007	41	584	34	486	550			

- 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: 7.10 Lt/mq



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## Pressure loss fixed heat exchanger



### S2 SOLAR 30 solar unit

The S2 SOLAR 30 solar unit is the ideal option for small and medium-sized installations of which the components are tested and pre-assembled to guarantee the quality of the performance and the easy installation. The electronic control unit of the solar unit MTDC is an integral part of the kit and comes cabled and with a probe for measuring the temperature. The kit is insulated in polystyrene.

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