SP

DOUBLE-SHELLED WATER HEATER







Design

The SP water heater concist of a double-shelled heater and storage tank unit of sheet steel. A layer of copper protects the internal storage tank from corrosion. The shell space, the water tank and the copper lining are all pressure-tested.

The pressure vessel is designed and manufactured in accordance with current pressure vessel standards (PED 97/23 EC § 3.3) for a maximum working pressure in the water tank of 9 bar (0.9 MPa). The maximum working pressure in the outer shell is 3.0 bar (0.3 MPa), and the maximum permissible temperature is 100 °C.

Thermal insulation for the water tank is provided by seamless polyurethane, greatly reducing heat loss.

The outer cladding is plastic-coated steel sheet.

Installation

The heater can be installed vertically or horizontally. When installing the heater vertically, ensure that it is plumb by means of the four adjustable feet. For horizontal installation, support the unit from the bar on the top.

A special foot stand is available as an accessory.

The cold water connection must be provided with the necessary valves.

On the hot water side, the heater must be fitted with a mixer valve that restricts supply temperature to 65 °C. If this valve is omitted, other means must be employed to prevent risk of scalding.

If the unit mounted vertically, an ELK-213 electric heater can be connected directly to the heater connections (5). Threaded flanges are available as accessories. If it is installed horizontally, a circulation pump must be provided.

Connections

The unit is fitted with compression fittings and threaded connections.

Double-shelled water heater and storage tank

The advantages of SP

effective and environmental insulation

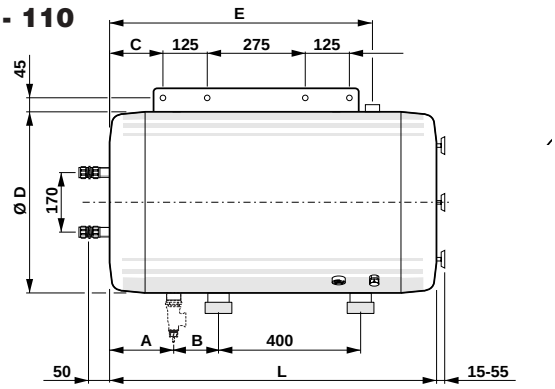
quick and simple to install

best performance and safety

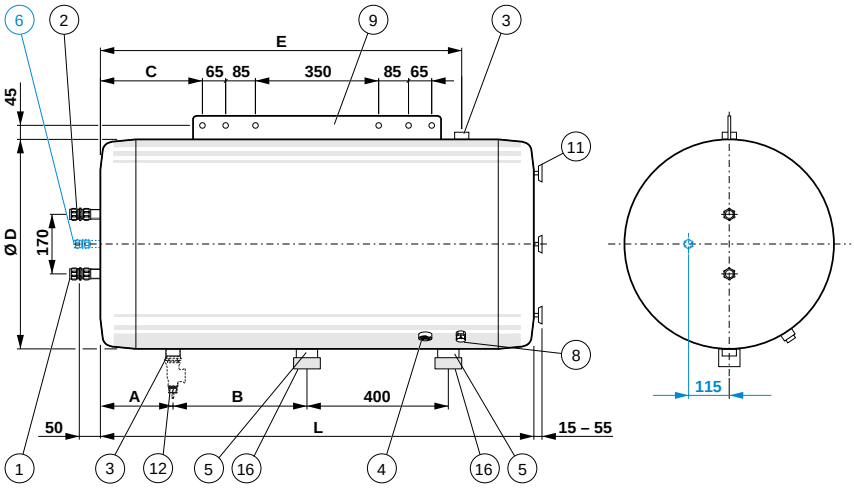


Dimensions and keys

SP - 110



SP - 150, SP - 200, SP - 300



1 Cold water inlet. Ø 22 mm compression fitting

2 Hot water outlet. Ø 22 mm compression fitting

3 Reiser/Return. G 32, internal

4 Thermostat pocket. G 15, internal

5 External electric heater connection. G 50, external

6 Circulation system connection. Ø 15 mm compression fitting. (Only on SP 300.)

8 Drain plug with cover. G 15, external.

9 Support bar with 20 mm diameterholes. c/c distance is 400 mm for SP-110 and 500mm for SP150, 200 and 300.

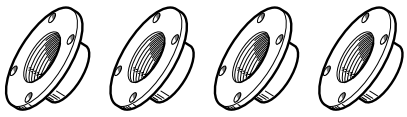
11 Feet (4). Adjustable 15 – 55 mm

12 Air vent valve for uppright mounting, provided to supply.

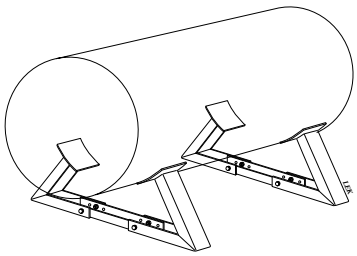
16 Caps (2), supplied with unit.

Accessories

Threaded adapter flanges for fitting ELK-213 electric heater **G 50/DN 50 – PN 6**

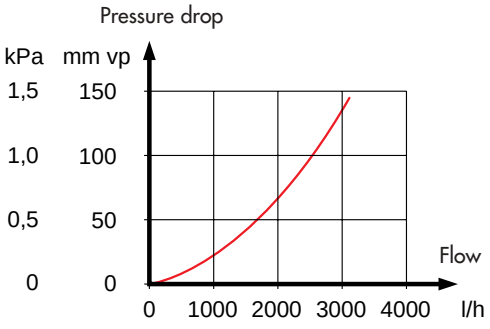


Stand for horizontal mounting



Pressure drop diagram

Primary side



Technical data

Volume (l)	Volume, shell (l)	Weight net (kg)	Heat transfer rate (80 °C) (Mcal/h - kW)	Thermal capacity (70 °C) (Mcal - kWh)	D (mm)	A (mm)	B (mm)	C (mm)	E (mm)	L (mm)
110	12	70	9 – 10	7,7 – 9,0	510	180	125	150	740	920
150	18	100	13 – 15	11 – 12	510	180	425	285	1 040	1 220
200	22	120	15 – 17	14 – 16	590	205	375	285	1 015	1 220
300	22	150	17 – 20	21 – 24	680	230	335	290	1 000	1 220

We reserve the right to make changes in design and dimensions without prior notice.

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