

# Solar storage tank ESS-PU



GmbH Behälterbau



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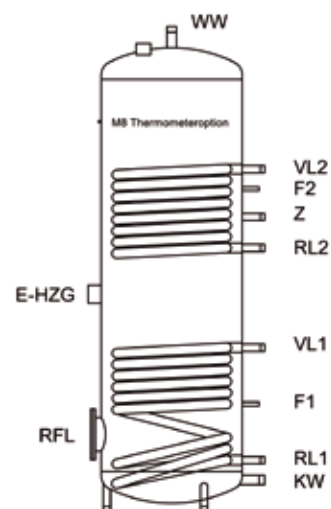
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## PRODUCT DESCRIPTION

# Solar storage tank ESS-PU

## Product description

- Upright storage tank made of steel S235JR with 2 large surface bare-tube heat exchangers
- Enamelling in accordance with DIN 4753 Part 3 on the inside
- Magnesium protection anode of 1 ¼" provided for completion of the cathodic corrosion protection in accordance with DIN 4753 Part 6
- Sensor tube included
- Thermometer included in the scope of supply (accessories kit)
- As standard fitted with a 1 ½" sleeve for refitting of an electric heating
- Inspection opening 180 ´ 110 ´ LK 150
- All external threads are flat sealing
- Hard PU foam insulation with a thickness of 50 mm and a casing of foil-clad, coloured synthetic material in accordance with DIN 4753 Part 8, RAL colours 9006; 9010; 2002; 5015
- Compressive strength 10 bar
- Adjustable feet see list of accessories on page 68



Storage tank model	ESS-PU	200	300	400	500
Capacity	[litre]	200	300	400	500
Diameter without insulation	[mm]	500*	500*	600*	650*
Diameter with insulation	[mm]	600	600	700	750
Insulation	[mm]	50*	50*	50*	50*
Height with insulation	[mm]	1232	1697	1660	1783
Tilted height	[mm]	1370	1800	1800	1970
Heating area top/bottom	[m²]	0,6/0,8	0,8/1,2	1,0/1,5	1,2/1,8
Water content**** top/bottom	[litre]	3,8/5,0	5,0/7,5	6,3/9,4	7,5/11,3
Volume flow**** top/bottom	[m³/h]	0,7/1,2	1,0/1,6	1,2/2,0	1,4/2,4
Pressure loss**** top/bottom	[mbar]	30/70	35/90	45/120	55/250
Performance index** top/bottom according to DIN 4708		1,23/3,6	1,8/8	2,1/11	2,5/14
Continuous output top/bottom according to DIN 4708 (10°/80°/45°)	[l/h]	410/710	605/970	720/1180	830/1400
max. T/max. P portable water	[°C / bar]	95/10	95/10	95/10	95/10
max. T/max. P ****	[°C / bar]	160/25	160/25	160/25	160/25
Cold/hot water, external thread (KW/WW)	[inches]	G 1	G 1	G 1	G 1
Circulation, external thread (Z)	[inches]	G ¾	G ¾	G ¾	G ¾
Heat exchangers, all externally threaded (VL/RL)	[inches]	G ¾	G ¾	G ¾	G ¾
Electric heating, internal thread (E-HZG)	[inches]	G 1 ½	G 1 ½	G 1 ½	G 1 ½
Nominal width of the inspection flange (RFL)		DN 110	DN 110	DN 110	DN 110
Connections for sensors/regulators (F1, F2)		for all storage tanks: Sensor sleeve with an inside diameter of 9 mm			
Thermometer connection		for all storage tanks: M8 thermometer optional			

Dimensions	Height above floor level	200	300	400	500
KW	[mm]	110	110	127	128
RL 1	[mm]	180	180	205	205
VL 1	[mm]	630	580	635	685
RL 2	[mm]	780	945	965	1020
Z	[mm]	880	1045	1065	1125
VL 2	[mm]	990	1215	1261	1325
WW	[mm]	for all storage tanks: Top			
E-HZG	[mm]	705	770	770	920
Weight	[kg]	85	114	166	215
Gross price incl. insulation	[€/piece]	978,-	1131,-	1383,-	1569,-

\* Insulation not detachable

\*\* In order to achieve the performance index given here the boiler output needs to be higher than the stated continuous output.

\*\*\* The working medium of the heat exchanger is water in liquid state only

\*\*\*\* Heat exchanger

Fl = fleece insulation

SF = soft foam insulation