DATA SHEET

PSWF 2000 N25 Thermal Store

Main Features	
Application	Storage and subsequent distribution of thermal energy from solid-fuel boilers, heat pumps or other heat sources; the tank is fitted with a solar heat exchanger and a flanged opening that permits installation of a DHW tube heat exchanger or connecting a solar thermal system.
Working fluid	water, water-glycol mixture (max. 1:1), water-glycerine mixture (max. 2:1), thermal oil
Thermal store code	20565
Insulation code	20602

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	valid for a thermal store with insulation
Energy efficiency class	N/A
Static loss	185 W
Storage volume	1972 l

Technical data	
Total thermal store volume	1997 l
Fluid volume in thermal store	1972 l
Fluid volume in heat exchanger	25.0 l
Heat exchanger surface area	4.5 m²
Max. working temperature in thermal store	95 °C
Min. working temperature in thermal store	7 °C
Max. working temperature in heat exchanger	110 °C
Max. working pressure in thermal store	3 bar
Max. working pressure in heat exchanger	10 bar
Thermal store diameter	1250 mm
Thermal store diameter with insulation	1450 mm
Thermal store overall height	1955 mm
Tipping height without insulation	2050 mm
Thermal store perimeter insulation thickness	100 mm
Thermal store bottom insulation thickness	50 mm
Thermal store top insulation thickness	100 mm
Empty weight without insulation	276 kg

Materials	
Thermal store material	S235JR
Thermal store perimeter insulation	fleece
Thermal store outer surface insulation	hard polystyrene
Top and bottom thermal store insulation	fleece
Solar heat exchanger	S235JR+N

Insulation thermal conductivity λ ≤ 0.037 W/mK, thermal resistance (short/long term) 150/100 °C, fire class E.

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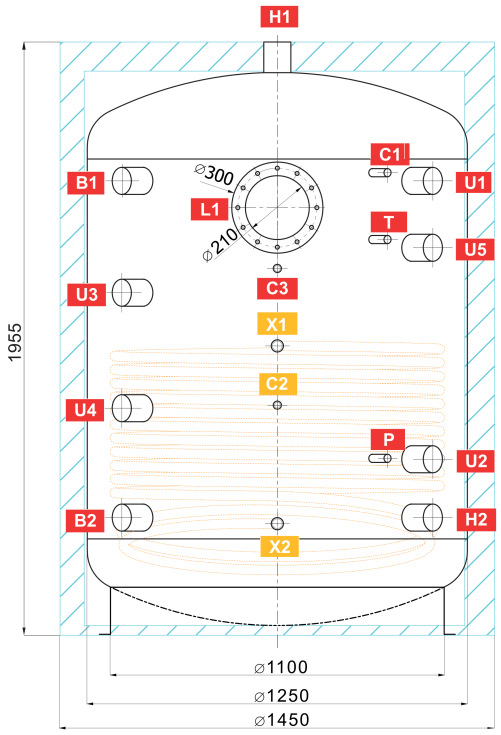
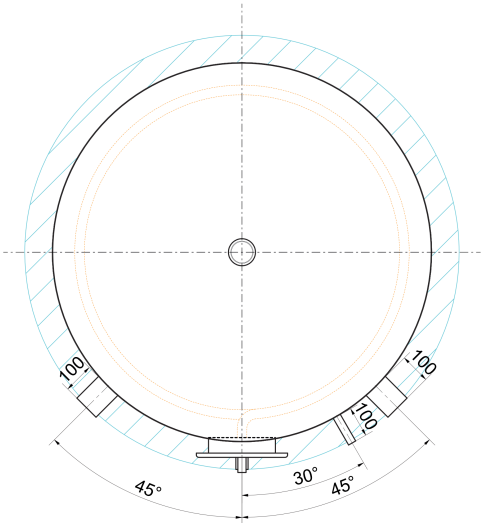
Accessories	
Electric heating element	ETT-A, C, D2, M, R, U, F2, P, S
Heating element max. length	955 mm
Blind flange	code 6230
Blind flange for heat exchanger	code 6231/6232
Tube heat exchanger	max. area - 4,5 m²

For the electric heater, a G 2.5" M x G 6/4" F reducer must be used

Dimensions





CONNECTIONS

pos.	description	connection	height [mm]
Heat sources			
B1	Supply from heat source	G 2,5" F	1498
B2	Return to heat source	G 2,5" F	390
Heating system			
H1	Flow to heating system	G 2,5" F	1955
H2	Return from heating system	G 2,5" F	390
Control and safety			
C1	Temperature sensor	G 1/2" F	1525
C2	Temperature sensor	G 1/2" F	760
C3	Temperature sensor	G 1/2" F	1210
T	Thermometer	G 1/2" F	1305
P	Safety valve	G 1/2" F	585
Universal inlet/outlet			
U1	Universal inlet/outlet	G 2,5" F	1498
U2	Universal inlet/outlet	G 2,5" F	582
U3	Universal inlet/outlet	G 2,5" F	1130
U4	Universal inlet/outlet	G 2,5" F	750
U5	Universal inlet/outlet	G 2,5" F	1278
Solar thermal system			
X1	Supply from solar collectors	G 1" F	955
X2	Return to solar collectors	G 1" F	370
Flanges			
L1	Upper flange	12 x M12	1410

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Heat exchanger pressure drop graph