

PSWF 800 N+ Thermal Store

		Main Features
		<p>Application</p> <p>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.</p>
Working fluid	water, water-glycol mixture (max. 1:1), water-glycerine mixture (max. 2:1), thermal oil	
Thermal store code	15230	
Insulation code	19343	

Energy Efficiency Data (as per EC Regulation No. 812/2013)

	valid for a thermal store with insulation
Energy efficiency class	N/A
Static loss	133 W
Storage volume	792 l

Technical data

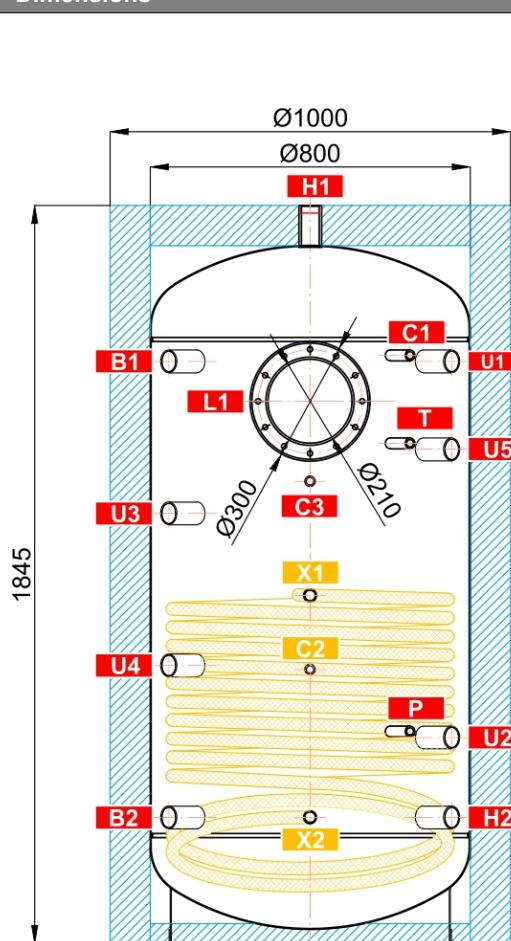
Total thermal store volume	807 l
Fluid volume in thermal store	792 l
Fluid volume in heat exchanger	15.0 l
Heat exchanger surface area	2.7 m ²
Max. working temperature in thermal store	95 °C
Min. working temperature in thermal store	7 °C
Max. working temperature in heat exchanger	110 °C
Max. working pressure in thermal store	4 bar
Max. working pressure in heat exchanger	10 bar
Thermal store diameter	800 mm
Thermal store diameter with insulation	1000 mm
Thermal store overall height	1845 mm
Tipping height without insulation	1895 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	139 kg

Materials

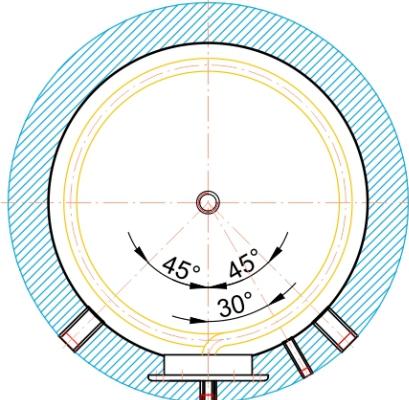
Thermal store material	S235JR
Thermal store perimeter insulation	fleece
Thermal store outer surface insulation	hard polystyrene
Top and bottom thermal store insulation	fleece
Solar heat exchanger	S235JR+N

Insulation thermal conductivity $\lambda \leq 0.037 \text{ W/mK}$, thermal resistance (short/long term) 150/100 °C, fire class E.
Accessories

Electric heating element	ETT-A, C, D2, M, R, U, F2, P, S
Heating element max. length	755 mm
Blind flange	code 6230
Blind flange for heat exchanger	code 6231 / 6232
Tube heat exchanger	max. area - 4,5 m ²

PSWF 800 N+ Thermal Store
Dimensions

CONNECTIONS

pos.	description	connection	height [mm]
Heat sources			
B1	Supply from heat source	G 6/4" F	1455
B2	Return to heat source	G 6/4" F	315
Heating system			
H1	Flow to heating system	G 6/4" F	1845
H2	Return from heating system	G 6/4" F	315
Control and safety			
C1	Temperature sensor	G 1/2" F	1470
C2	Temperature sensor	G 1/2" F	685
C3	Temperature sensor	G 1/2" F	1155
T	Thermometer	G 1/2" F	1250
P	Safety valve	G 1/2" F	530
Universal inlet/outlet			
U1	Universal inlet/outlet	G 6/4" F	1455
U2	Universal inlet/outlet	G 6/4" F	515
U3	Universal inlet/outlet	G 6/4" F	1075
U4	Universal inlet/outlet	G 6/4" F	695
U5	Universal inlet/outlet	G 6/4" F	1235
Solar thermal system			
X1	Supply from solar collectors	G 1" F	870
X2	Return to solar collectors	G 1" F	315
Flanges			
L1	Upper flange	12 x M12	1355



PSWF 800 N+ Thermal Store**Heat exchanger pressure drop graph**