

PSWF 1500 N+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	15234
	Insulation code	19350

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

	valid for a thermal store with insulation
Energy efficiency class	N/A
Static loss	167 W
Storage volume	1476 l

Technical data

Total thermal store volume	1498 l
Fluid volume in thermal store	1476 l
Fluid volume in heat exchanger	22.0 l
Heat exchanger surface area	4.0 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	3 bar
Max. working pressure in heat exchanger	10 bar
Thermal store diameter	1100 mm
Thermal store diameter with insulation	1300 mm
Thermal store overall height	1885 mm
Tipping height without insulation	1965 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	234 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	955 mm
Blind flange	code 6230
Blind flange for heat exchanger	code 6231 / 6232
Tube heat exchanger	max. area - 4,5 m ²

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Dimensions			
CONNECTIONS			
pos.	description	connection	height [mm]
Heat sources			
B1	Supply from heat source	G 6/4" F	1475
B2	Return to heat source	G 6/4" F	335
Heating system			
H1	Flow to heating system	G 6/4" F	1885
H2	Return from heating system	G 6/4" F	335
Control and safety			
C1	Temperature sensor	G 1/2" F	1490
C2	Temperature sensor	G 1/2" F	735
C3	Temperature sensor	G 1/2" F	1175
T	Thermometer	G 1/2" F	1270
P	Safety valve	G 1/2" F	550
Universal inlet/outlet			
U1	Universal inlet/outlet	G 6/4" F	1475
U2	Universal inlet/outlet	G 6/4" F	535
U3	Universal inlet/outlet	G 6/4" F	1095
U4	Universal inlet/outlet	G 6/4" F	715
U5	Universal inlet/outlet	G 6/4" F	1255
Solar thermal system			
X1	Supply from solar collectors	G 1" F	940
X2	Return to solar collectors	G 1" F	335
Flanges			
L1	Upper flange	12 x M12	1375

PSWF 1500 N+Thermal Store**Heat exchanger pressure drop graph**