

DATA SHEET

PSWF 500 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 2 flanged openings that can permit 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
Storage tank code	14735
Insulation code	19332

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

	valid for a tank with insulation
Energy efficiency class	C
Static loss	106 W
Storage volume	461 l

Technical data

Total storage tank volume	472 l
Fluid volume in tank	461 l
Heat exchanger volume	11.0 l
Heat exchanger surface area	2.0 m ²
Max. working temperature in storage tank	95 °C
Max. working temperature in heat exchanger	110 °C
Max. working pressure in storage tank	4 bar
Max. working pressure in heat exchanger	10 bar
Storage tank diameter	600 mm
Storage tank diameter with insulation	800 mm
Storage tank overall height	1915 mm
Tipping height without insulation	1950 mm
Storage tank perimeter insulation thickness	100 mm
Storage tank bottom insulation thickness	50 mm
Storage tank top insulation thickness	100 mm
Empty weight without insulation	118 kg

Materials

Storage tank material	S235JR
Storage tank perimeter insulation	fleece
Storage tank outer surface insulation	hard polystyrene
Top and bottom storage tank insulation	fleece
Solar heat exchanger	S235JR+N

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Accessories			
Electrical heating element			ETT-A, C, D, F, P, M
Heating element max. length			680 mm
Blind flange			code 6230
Blind flange for heat exchanger			code 6231 / 6232
Tube heat exchanger			max. area 3.15 m ²
Dimensions			
	TAPPINGS		
	pos.	description	connection height [mm]
Heat sources			
B1	Supply from heat source	G 6/4" F	1615
B2	Return to heat source	G 6/4" F	225
Heating system			
H1	Supply to heat sink	G 6/4" F	1915
H2	Return from heat sink	G 6/4" F	225
Control and safety			
C1	Temperature sensor	G 1/2" F	1630
C2	Temperature sensor	G 1/2" F	585
C3	Temperature sensor	G 1/2" F	1270
T	Thermometer	G 1/2" F	1400
P	Safety valve	G 1/2" F	450
Universal inlet/outlet			
U1	Universal inlet/outlet	G 6/4" F	1615
U2	Universal inlet/outlet	G 6/4" F	435
U3	Universal inlet/outlet	G 6/4" F	1155
U4	Universal inlet/outlet	G 6/4" F	685
U5	Universal inlet/outlet	G 6/4" F	1385
Solar thermal system			
X1	Inlet from solar thermal collector	G 1" F	765
X2	Return to solar thermal collector	G 1" F	225
Flanges			
L1	Upper flange	12 x M12	1515

PSWF 500 N+ Thermal Store**Heat exchanger pressure drop graph**