


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																																																																																																	
	<h3>TAPPINGS</h3> <table border="1"> <thead> <tr> <th>pos.</th> <th>description</th> <th>connection</th> <th>height [mm]</th> </tr> </thead> <tbody> <tr> <td colspan="4">Heat sources</td> </tr> <tr> <td>B1</td> <td>Supply from heat source</td> <td>G 6/4" F</td> <td>1615</td> </tr> <tr> <td>B2</td> <td>Return to heat source</td> <td>G 6/4" F</td> <td>225</td> </tr> <tr> <td colspan="4">Heating system</td> </tr> <tr> <td>H1</td> <td>Supply to heat sink</td> <td>G 6/4" F</td> <td>1915</td> </tr> <tr> <td>H2</td> <td>Return from heat sink</td> <td>G 6/4" F</td> <td>225</td> </tr> <tr> <td colspan="4">Control and safety</td> </tr> <tr> <td>C1</td> <td>Temperature sensor</td> <td>G 1/2" F</td> <td>1630</td> </tr> <tr> <td>C2</td> <td>Temperature sensor</td> <td>G 1/2" F</td> <td>585</td> </tr> <tr> <td>C3</td> <td>Temperature sensor</td> <td>G 1/2" F</td> <td>1270</td> </tr> <tr> <td>T</td> <td>Thermometer</td> <td>G 1/2" F</td> <td>1400</td> </tr> <tr> <td>P</td> <td>Safety valve</td> <td>G 1/2" F</td> <td>450</td> </tr> <tr> <td colspan="4">Universal inlet/outlet</td> </tr> <tr> <td>U1</td> <td>Universal inlet/outlet</td> <td>G 6/4" F</td> <td>1615</td> </tr> <tr> <td>U2</td> <td>Universal inlet/outlet</td> <td>G 6/4" F</td> <td>435</td> </tr> <tr> <td>U3</td> <td>Universal inlet/outlet</td> <td>G 6/4" F</td> <td>1155</td> </tr> <tr> <td>U4</td> <td>Universal inlet/outlet</td> <td>G 6/4" F</td> <td>685</td> </tr> <tr> <td>U5</td> <td>Universal inlet/outlet</td> <td>G 6/4" F</td> <td>1385</td> </tr> <tr> <td colspan="4">Solar thermal system</td> </tr> <tr> <td>X1</td> <td>Inlet from solar thermal collector</td> <td>G 1" F</td> <td>765</td> </tr> <tr> <td>X2</td> <td>Return to solar thermal collector</td> <td>G 1" F</td> <td>225</td> </tr> <tr> <td colspan="4">Flanges</td> </tr> <tr> <td>L1</td> <td>Upper flange</td> <td>12 x M12</td> <td>1515</td> </tr> </tbody> </table>	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
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Heat exchanger pressure drop graph

