DATA SHEET

PSWF 300 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	14732
Insulation code	19342

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	valid for a thermal store with insulation
Energy efficiency class	C
Static loss	78 W
Storage volume	271 l

Technical data	
Total thermal store volume	280 l
Fluid volume in thermal store	271 l
Fluid volume in heat exchanger	9.0 l
Heat exchanger surface area	1.5 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	4 bar
Max. working pressure in heat exchanger	10 bar
Thermal store diameter	550 mm
Thermal store diameter with insulation	750 mm
Thermal store overall height	1405 mm
Tipping height without insulation	1430 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	75 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.

Accessories	
Electric heating element	ETT-A, C, D2, M, R, U, F2, P, S
Heating element max. length	635 mm
Blind flange	code 6230
Blind flange for heat exchanger	code 6231
Tube heat exchanger	max. area - 1,8 m²

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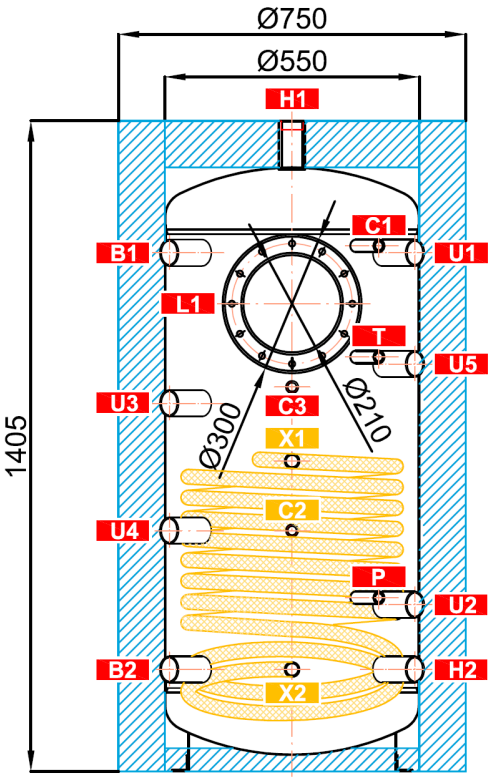
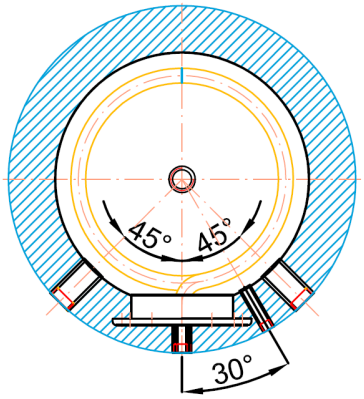
Dimensions





CONNECTIONS

pos.	description	connection	height [mm]
Heat sources			
B1	Supply from heat source	G 6/4" F	1120
B2	Return to heat source	G 6/4" F	220
Heating system			
H1	Flow to heating system	G 6/4" F	1405
H2	Return from heating system	G 6/4" F	220
Control and safety			
C1	Temperature sensor	G 1/2" F	1135
C2	Temperature sensor	G 1/2" F	520
C3	Temperature sensor	G 1/2" F	830
T	Thermometer	G 1/2" F	895
P	Safety valve	G 1/2" F	375
Universal inlet/outlet			
U1	Universal inlet/outlet	G 6/4" F	1120
U2	Universal inlet/outlet	G 6/4" F	360
U3	Universal inlet/outlet	G 6/4" F	795
U4	Universal inlet/outlet	G 6/4" F	520
U5	Universal inlet/outlet	G 6/4" F	880
Solar thermal system			
X1	Supply from solar collectors	G 1" F	670
X2	Return to solar collectors	G 1" F	220
Flanges			
L1	Upper flange	12 x M12	1010

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Heat exchanger pressure drop graph