DATA SHEET

PS 500 N25 Thermal Store

Main Features	
Application	Storage and subsequent distribution of thermal energy from solid-fuel boilers, heat pumps or other heat sources. It is fitted with G 2.5" F threaded tappings.
Working fluid	water, water-glycol mixture (max. 1:1), water-glycerine mixture (max. 2:1), thermal oil
Thermal store code	19272
Insulation code	19274

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	valid for a thermal store with insulation
Energy efficiency class	C
Static loss	94 W
Storage volume	476 l

Technical data	
Total thermal store volume	476 l
Max. working temperature in thermal store	95 °C
Min. working temperature in thermal store	7 °C
Max. working pressure in thermal store	4 bar
Thermal store diameter	600 mm
Thermal store diameter with insulation	800 mm
Thermal store overall height	1915 mm
Tipping height without insulation	1940 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	74 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

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	680 mm

For the electric heater, a G 2.5" M x G 6/4" F reducer must be used

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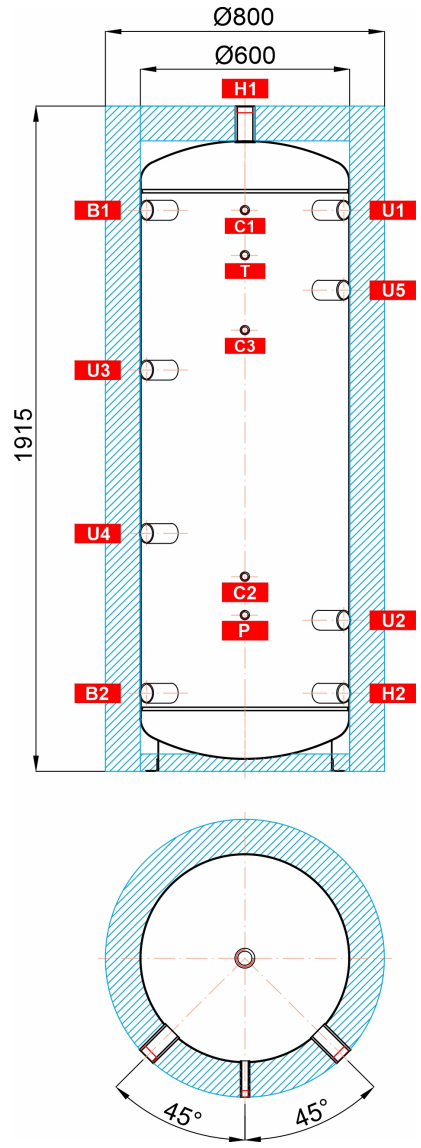
Dimensions



CONNECTIONS			
pos.	description	connection	height [mm]
Heat sources			
B1	Supply from heat source	G 2,5" F	1605
B2	Return to heat source	G 2,5" F	245
Heating system			
H1	Flow to heating system	G 2,5" F	1915
H2	Return from heating system	G 2,5" F	245
Control and safety			
C1	Temperature sensor	G 1/2" F	1615
C2	Temperature sensor	G 1/2" F	560
C3	Temperature sensor	G 1/2" F	1270
T	Thermometer	G 1/2" F	1485
P	Safety valve	G 1/2" F	450
Universal inlet/outlet			
U1	Universal inlet/outlet	G 2,5" F	1605
U2	Universal inlet/outlet	G 2,5" F	435
U3	Universal inlet/outlet	G 2,5" F	1155
U4	Universal inlet/outlet	G 2,5" F	685
U5	Universal inlet/outlet	G 2,5" F	1385

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