DATA SHEET

PS 500 K+ Thermal Store

Main Features	
Application	Storage and subsequent distribution of thermal energy from solid-fuel boilers, heat pumps or other heat sources.
Working fluid	water, water-glycol mixture (max. 1:1), water-glycerine mixture (max. 2:1), thermal oil
Thermal store code	15288
Insulation code	19307

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	valid for a thermal store with insulation
Energy efficiency class	C
Static loss	93 W
Storage volume	477 l

Technical data	
Total thermal store volume	477 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	650 mm
Thermal store diameter with insulation	850 mm
Thermal store overall height	1685 mm
Tipping height without insulation	1720 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	68 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	700 mm

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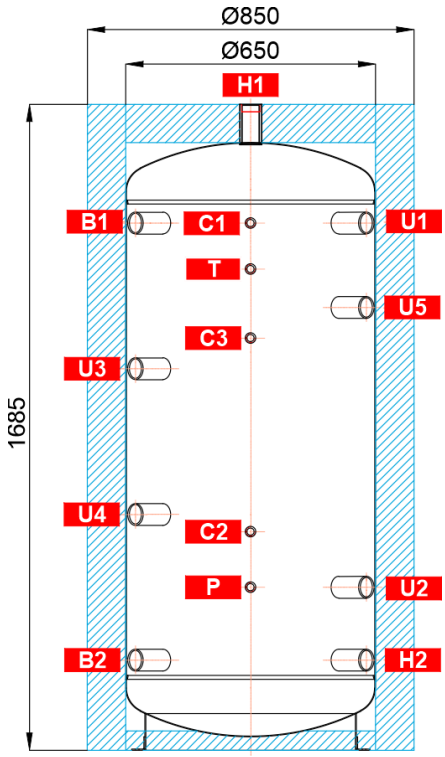
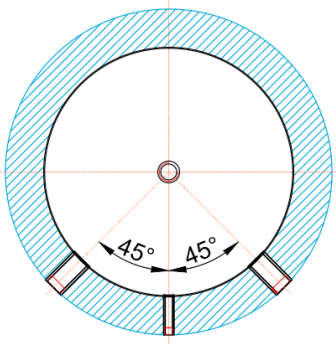
Dimensions





CONNECTIONS

pos.	description	connection	height [mm]
Heat sources			
B1	Supply from heat source	G 6/4" F	1375
B2	Return to heat source	G 6/4" F	235
Heating system			
H1	Flow to heating system	G 6/4" F	1685
H2	Return from heating system	G 6/4" F	235
Control and safety			
C1	Temperature sensor	G 1/2" F	1375
C2	Temperature sensor	G 1/2" F	570
C3	Temperature sensor	G 1/2" F	1075
T	Thermometer	G 1/2" F	1255
P	Safety valve	G 1/2" F	425
Universal inlet/outlet			
U1	Universal inlet/outlet	G 6/4" F	1375
U2	Universal inlet/outlet	G 6/4" F	425
U3	Universal inlet/outlet	G 6/4" F	995
U4	Universal inlet/outlet	G 6/4" F	615
U5	Universal inlet/outlet	G 6/4" F	1155

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