

PS 500 IZ Thermal Store

Main Features
Application

Welded steel tank designed for storage and subsequent distribution of heat and cold. It is supplied with vapour-proof, non-detachable insulation.

Working fluid

water, water-glycol mixture (max. 1:1), water-glycerine mixture (max. 2:1), thermal oil

Thermal store code

20561

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

	valid for a thermal store with insulation
Energy efficiency class	C
Static loss	83 W
Storage volume	469 l

Technical data

Total thermal store volume	469 l
Max. working temperature in thermal store	95 °C
Min. working temperature in thermal store	7 °C
Max. working pressure in thermal store	3 bar
Thermal store diameter	650 mm
Thermal store diameter with insulation	750 mm
Thermal store overall height	1615 mm
Tipping height without insulation	1785 mm
Thermal store perimeter insulation thickness	50 mm
Thermal store bottom insulation thickness	50 mm
Thermal store top insulation thickness	50 mm
Empty weight without insulation	80 kg

Materials

Thermal store material	S235JR
Thermal store perimeter insulation	PU foam
Thermal store outer surface insulation	hard plastics
Top and bottom thermal store insulation	PU foam

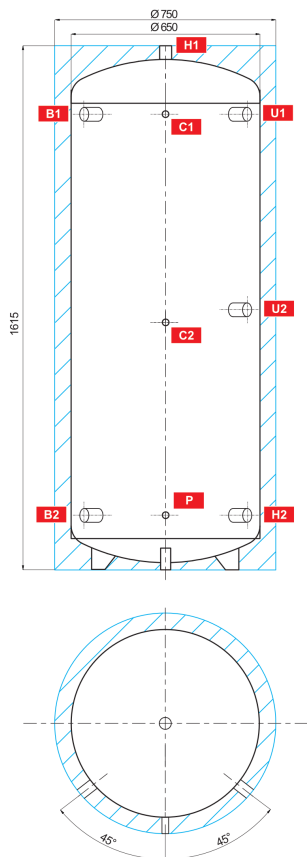
Insulation thermal conductivity $\lambda \leq 0.037 \text{ W/mK}$, thermal resistance (short/long term) 150/100 °C, fire class E.

Accessories

Electric heating element	ETT-A, C, D2, M, R, U, F2, P, S
Heating element max. length	680 mm

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Dimensions



CONNECTIONS

pos.	description	connection	height [mm]
Heat sources			
B1	Supply from heat source	G 6/4" F	1355
B2	Return to heat source	G 6/4" F	245
Heating system			
H1	Flow to heating system	G 5/4" F	1615
H2	Return from heating system	G 6/4" F	245
Control and safety			
C1	Temperature sensor	G 1/2" F	1355
C2	Temperature sensor	G 1/2" F	800
P	Safety valve	G 1/2" F	245
Universal inlet/outlet			
U1	Universal inlet/outlet	G 6/4" F	1355
U2	Universal inlet/outlet	G 6/4" F	850