

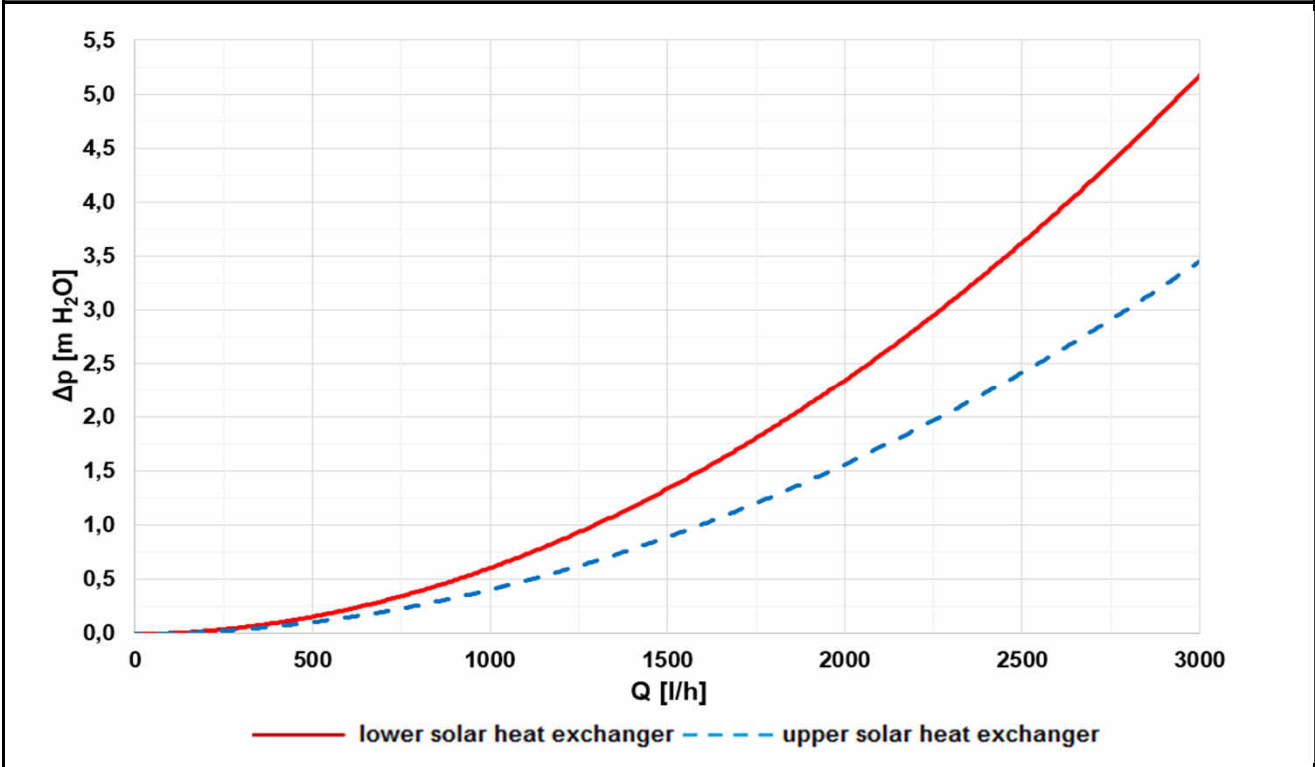
### HSK 800 Thermal Store



Main features	
Application	accumulation of thermal energy for hot-water space heating and DHW
Description	combination thermal store with DHW heating in a stainless-steel heat exchanger, with two steel solar heat exchangers and an inner stratification cylinder for heating system return line
Working fluid	water (tank), water, water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1) (heat exchangers)
Code	
Thermal Store	<b>7 663</b>
Insulation	<b>16 308</b>
Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	<b>HSK 800 with insulation</b>
Energy efficiency class	N/A
Standing loss	119 W
Storage volume	720 l
Technical Data	
Total tank volume	790 l
Fluid volume in tank	708 l
DHW heat exchanger volume	62 l
Lower solar heat exchanger volume	12 l
Upper solar heat exchanger volume	8 l
DHW heat exchanger surface area	7,2 m <sup>2</sup>
Lower solar heat exchanger surface area	3,0 m <sup>2</sup>
Upper solar heat exchanger surface area	2,0 m <sup>2</sup>
Max. working temperature in Thermal Store	95 °C
Max. working temperature in heat exchangers	95 °C
Max. working pressure in Thermal Store	6 bar
Max. working pressure in heat exchangers	6 bar
Tank Materials	
Tank material	S235JR
Solar heat exchanger material	S235JR+N
DHW heat exchanger material	AISI 316 L
Insulation Materials	
Tank perimeter insulation	fleece
Tank perimeter insulation outer surface	PU leather
Top and bottom tank insulation	fleece
Dimensions, Tipping height, Insulation thickness, Weight	
Tank diameter	790 mm
Tank diameter with insulation	1030 mm
Tank overall height	1930 mm
Tipping height without insulation	1965 mm
Tank perimeter insulation thickness	120 mm
Bottom insulation thickness	50 mm
Top insulation thickness	120 mm
Empty weight without insulation	200 kg
Accessories	
El. heating element (models)	ETT-C, L, M
Heating elem. max. length / output	1x 755 mm / 9 kW

## HSK 800 Thermal Store

## Solar heat exchanger pressure drop



HSK 800 Thermal Store

**Dimensions**

Tipping height without insulation 1965 mm.

Technical drawing showing dimensions and tapping locations for the HSK 800 Thermal Store. The drawing includes a cross-section and a top view. Key dimensions include a total height of 1930 mm, an outer diameter of  $\phi 1030$ , and an inner diameter of  $\phi 790$ . The tipping height without insulation is 1965 mm. The drawing shows various heating elements (W1, W2, E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100) and tappings (O, T, M, C1, C2, C3, C4, C5, X1, X2, X3, X4, B1, B2, B3, B4, H1, H2) located at various heights.

TAPPINGS		
pos.	connection	height [mm]
<b>Heat sources</b>		
B1	G 6/4" F	870
B2	G 6/4" F	170
B3	G 6/4" F	1390
B4	-	-
<b>Heating system</b>		
H1	G 6/4" F	980
H2	G 6/4" F	170
<b>El . heating elements</b>		
E1	G 6/4" F	920
<b>Air release</b>		
O	G 1" F	1930
<b>Control and safety</b>		
T	G 1/2" F	1290
M	G 1/2" F	580
C1	G 1/2" F	770
C2	G 1/2" F	465
C3	G 1/2" F	1190
C4	G 1/2" F	1290
C5	-	-
<b>DHW heating</b>		
W1	G 5/4" F	270
W2	G 5/4" F	1580
<b>Solar thermal system</b>		
X1	G 1" F	670
X2	G 1" F	310
X3	G 1" F	1500
X4	G 1" F	1090