

HSK 1000 PR Combination Thermal Store

Main features	
Application	storage of thermal energy for DHW and space heating
Description	combination Thermal Store with two immersed DHW heat exchangers made of stainless steel, with integrated solar heat exchanger, with a tight separating metal sheet that increases the COP of the heat pump and efficiency of the solar thermal system
Working fluid	water (tank), water, water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1) (heat exchangers)



Code	
Thermal Store	14 012
Insulation	16 311

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	HSK 1000 PR with insulation
Energy efficiency class	N/A
Standing loss	131 W
Storage volume	898 l

Technical Data	
Total tank volume	916 l
Fluid volume in tank	866 l
Solar heat exchanger volume	18 l
Upper DHW heat exchanger volume	21 l
Lower DHW heat exchanger volume	11 l
Solar heat exchanger surface area	3,2 m ²
Upper DHW heat exchanger surface area	6 m ²
Lower DHW heat exchanger surface area	3 m ²
Max. working temp. in Thermal Store	95 °C
Max. working temperature in solar HE	95 °C
Max. working temp. in DHW heat exchangers	95 °C
Max. working pressure in Thermal Store	4 bar
Max. working pressure in solar HE	10 bar
Max. working pressure in DHW heat exchangers	6 bar

Tank Materials	
Tank material	S235JR
Solar heat exchanger material	S235JR+N
DHW heat exchanger material	AISI 316 L

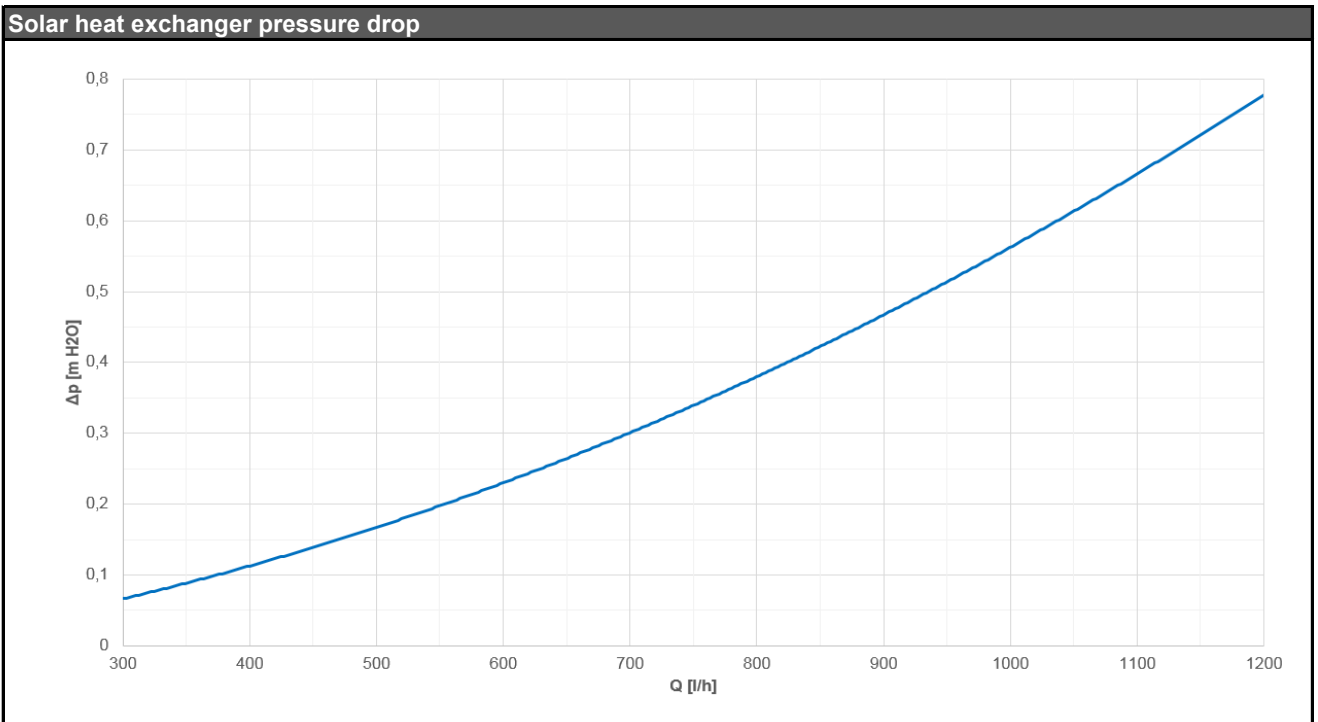
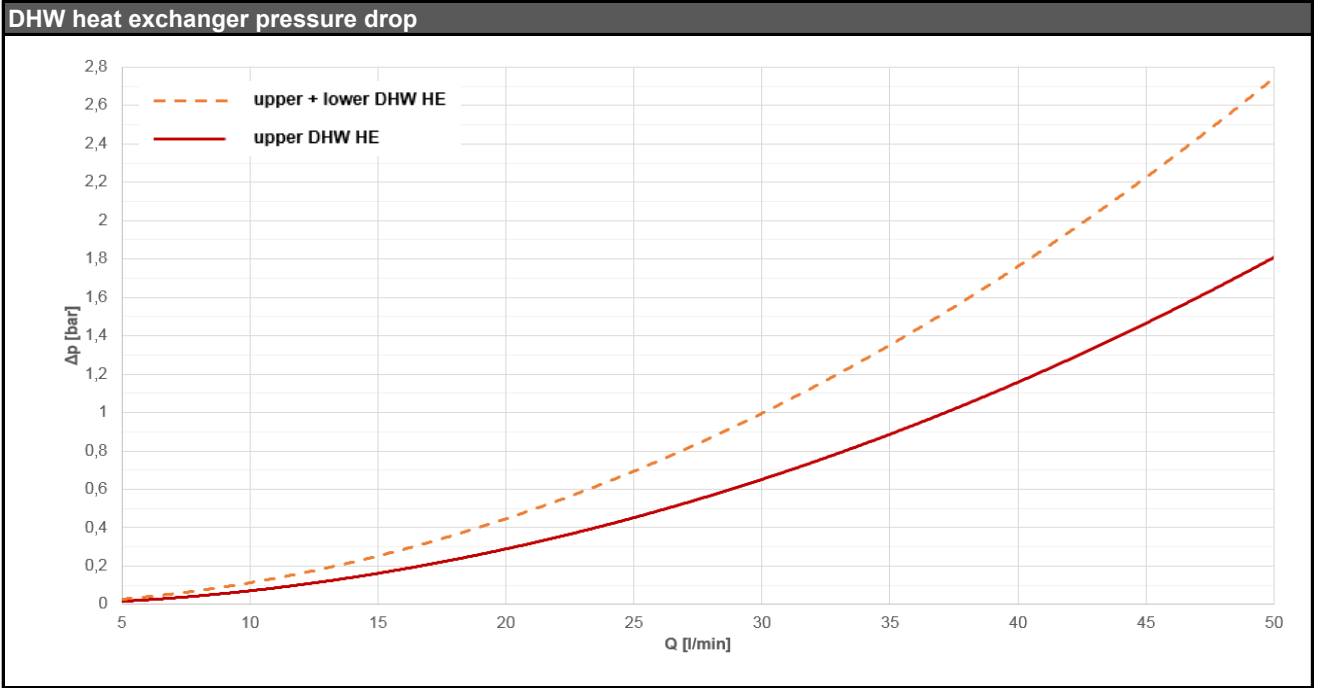
Insulation Materials	
Tank perimeter insulation	fleece
Tank perimeter insulation outer surface	PU leather
Top and bottom tank insulation	fleece

Dimensions, Tipping height, Insulation thickness, Weight	
Tank diameter	800 mm
Tank diameter with insulation	1000 mm
Tank overall height	2080 mm
Tipping height without insulation	2120 mm
Tank perimeter insulation thickness	100 mm
Bottom insulation thickness	50 mm
Top insulation thickness	120 mm
Empty weight without insulation	192 kg

Accessories	
El. heating element (models)	ETT-C, J, L
Heating elem. max. length / output	3x 755 mm / 9 kW

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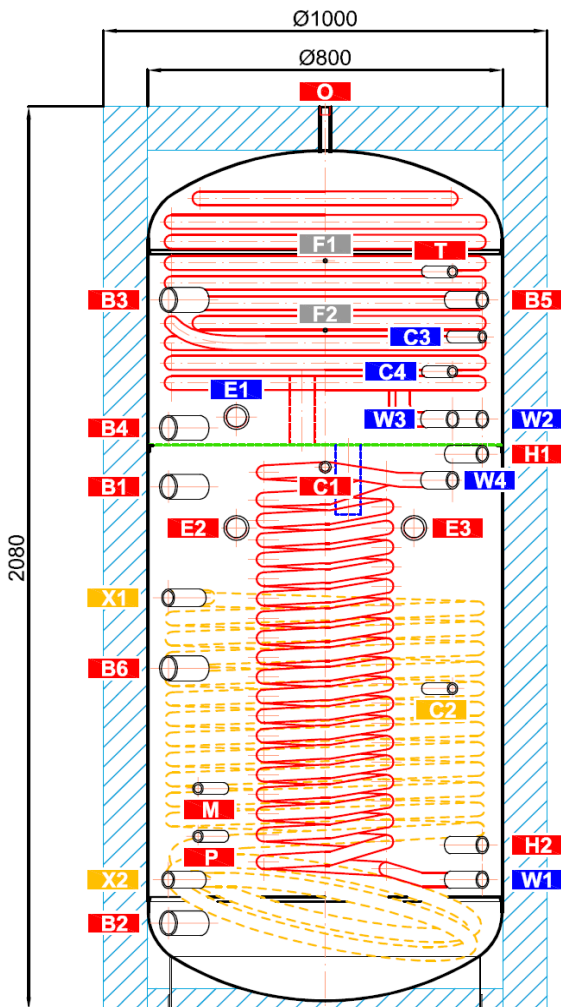
Volume of supplied DHW (heated from 10 °C to 40 °C)												
Heated volume	entire			entire			entire			above metal sheet		
Temperature in tank	60 °C			60 °C			80 °C			60 °C		
Backup heater	10 kW			none			none			10 kW		
Flow rate [l/min]	8	12	20	8	12	20	8	12	20	8	12	20
Hot water volume [l]	1381	1008	796	846	749	697	1406	1365	1173	423	301	270



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Dimensions

Tipping height without insulation 2120 mm.



TAPPINGS

Pos.	Connection	Height [mm]
Heat sources		
B1	G 6/4" F	1205
B2	G 6/4" F	200
B3	G 6/4" F	1635
B4	G 6/4" F	1340
B5	G 1" F	1635
B6	G 6/4" F	787
Heating system		
H1	G 1" F	1280
H2	G 1" F	380
Solar thermal system		
X1	G 1" F	950
X2	G 1" F	300
El. heating elements		
E1	G 6/4" F	1365
E2	G 6/4" F	1110
E3	G 6/4" F	1110
DHW heating		
W1	G 1" M	300
W2	G 1" M	1360
W3	G 1" M	1360
W4	G 1" M	1220
Control and safety		
C1	G 1/2" F	1250
C2	G 1/2" F	740
C3	G 1/2" F	1550
C4	G 1/2" F	1470
T	G 1/2" F	1700
M	G 1/2" F	510
P	G 1/2" F	400
Air release		
O	G 1/2" F	2080
Pump station support		
F1	M6	1725
F2	M6	1565