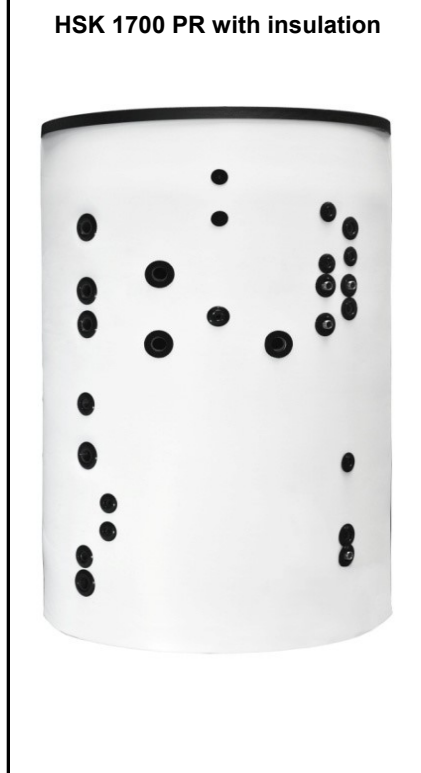


HSK 1700 PR Combination Thermal Store

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	14 013
Insulation	16 315

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	HSK 1700 PR with insulation
Energy efficiency class	N/A
Standing loss	178 W
Storage volume	1654 l

Technical Data	
Total tank volume	1676 l
Fluid volume in tank	1622 l
Solar heat exchanger volume	22 l
Upper DHW heat exchanger volume	21 l
Lower DHW heat exchanger volume	11 l
Solar heat exchanger surface area	4 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	3 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

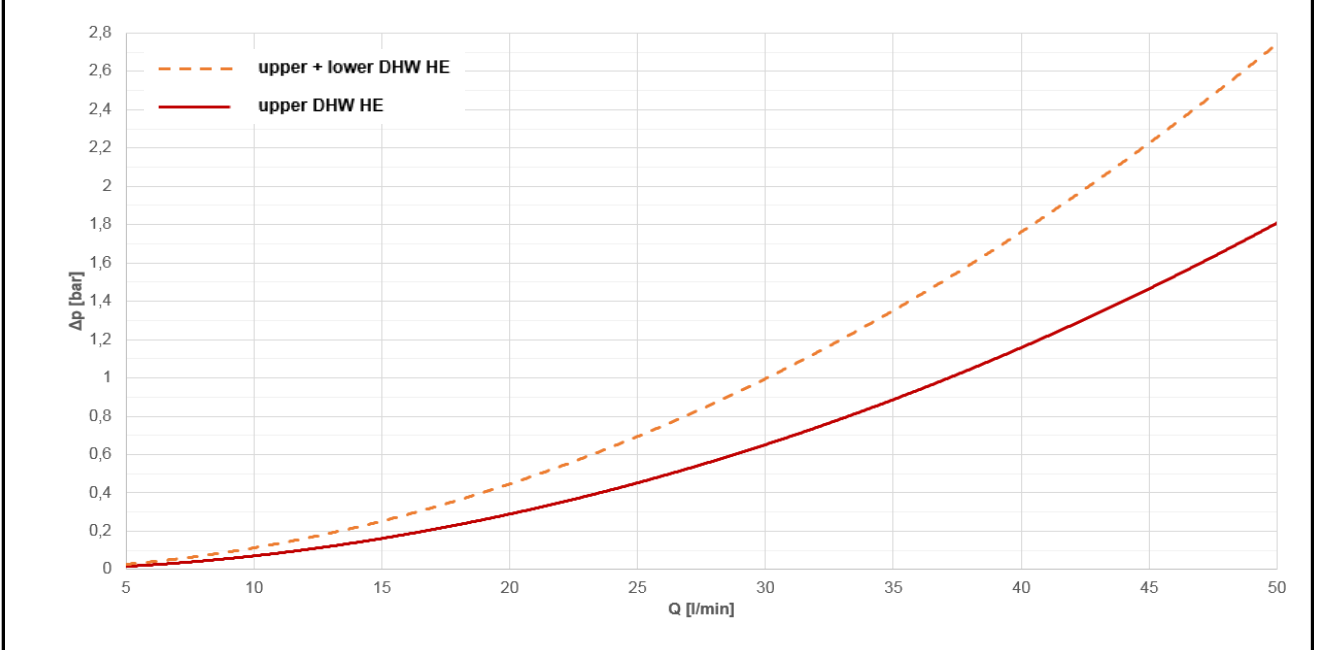
Dimensions, Tipping height, Insulation thickness, Weight	
Tank diameter	1100 mm
Tank diameter with insulation	1300 mm
Tank overall height	2075 mm
Tipping height without insulation	2190 mm
Tank perimeter insulation thickness	100 mm
Bottom insulation thickness	50 mm
Top insulation thickness	120 mm
Empty weight without insulation	295 kg

Accessories	
El. heating element (models)	ETT-C, J, L
Heating elem. max. length / output	3x 955 mm / 12 kW

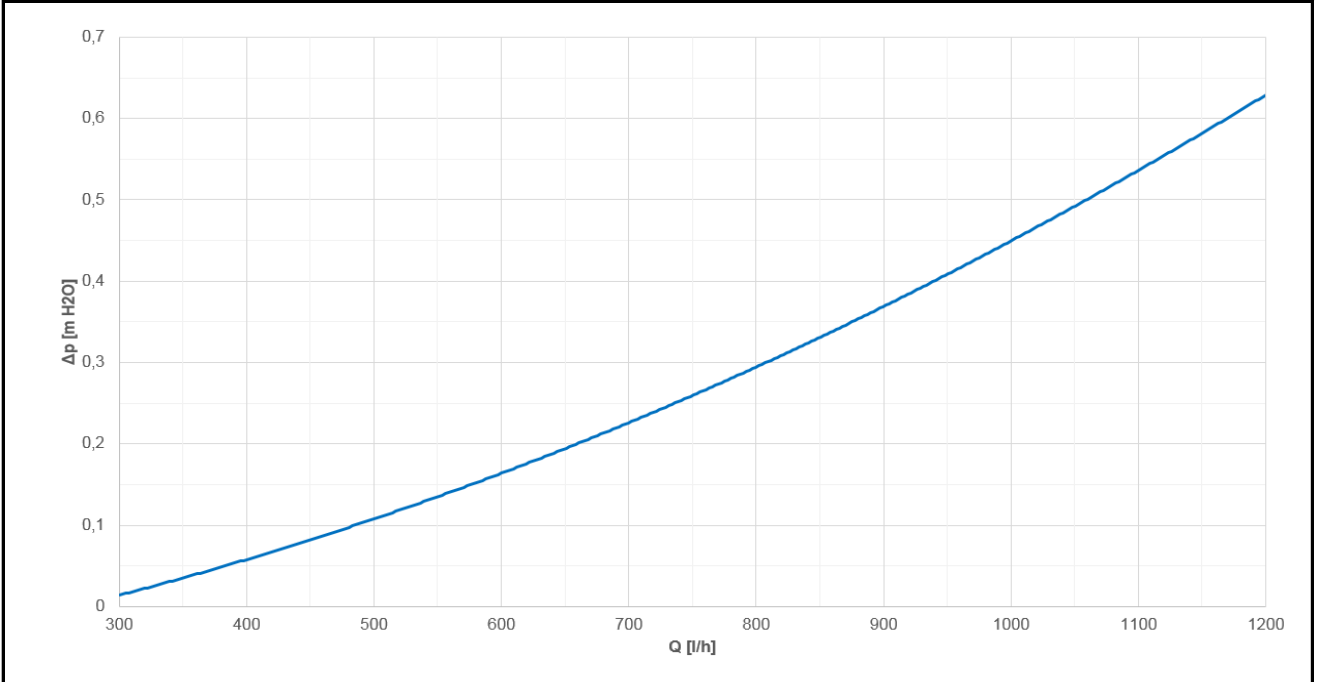
HSK 1700 PR Combination Thermal Store

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]	2642	2007	1498	1533	1407	1264	2369	2350	2179	836	631	423

DHW heat exchanger pressure drop



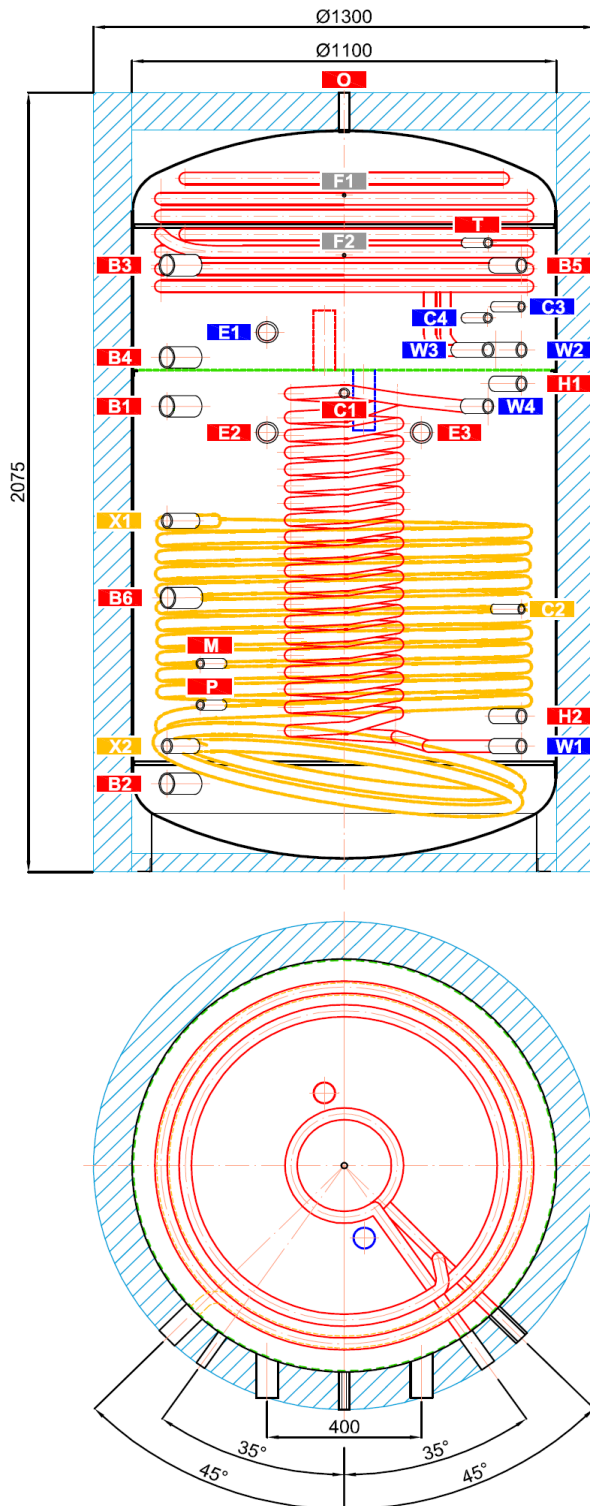
Solar heat exchanger pressure drop



HSK 1700 PR Combination Thermal Store

Dimensions

Tipping height without insulation 2190 mm.



TAPPINGS

Pos.	Connection	Height [mm]
Heat sources		
B1	G 6/4" F	1240
B2	G 6/4" F	235
B3	G 6/4" F	1615
B4	G 6/4" F	1370
B5	G 1" F	1615
B6	G 6/4" F	730
Heating system		
H1	G 1" F	1300
H2	G 1" F	415
Solar thermal system		
X1	G 1" F	935
X2	G 1" F	335
EI . heating elements		
E1	G 6/4" F	1437
E2	G 6/4" F	1170
E3	G 6/4" F	1170
DHW heating		
W1	G 1" M	335
W2	G 1" M	1390
W3	G 1" M	1390
W4	G 1" M	1240
Control and safety		
C1	G 1/2" F	1275
C2	G 1/2" F	700
C3	G 1/2" F	1505
C4	G 1/2" F	1475
T	G 1/2" F	1675
M	G 1/2" F	555
P	G 1/2" F	445
Air release		
O	G 1/2" F	2075
Pump station support		
F1	M6	1802
F2	M6	1642