

**HSK 600 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	<b>14 187</b>
Insulation	<b>16 321</b>

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	<b>HSK 600 PR with insulation</b>
Energy efficiency class	N/A
Standing loss	100 W
Storage volume	540 l

Technical Data	
Total tank volume	553 l
Fluid volume in tank	508 l
Solar heat exchanger volume	13 l
Upper DHW heat exchanger volume	21 l
Lower DHW heat exchanger volume	11 l
Solar heat exchanger surface area	2,4 m <sup>2</sup>
Upper DHW heat exchanger surface area	6 m <sup>2</sup>
Lower DHW heat exchanger surface area	3 m <sup>2</sup>
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

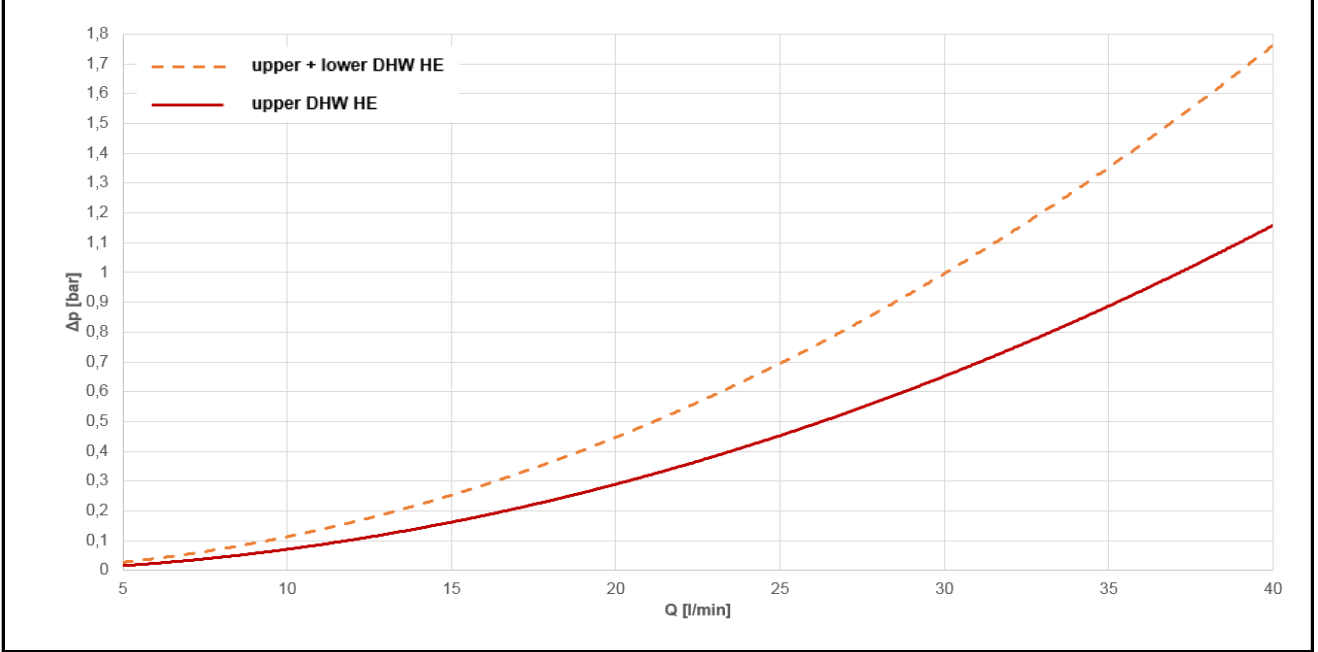
Dimensions, Tipping height, Insulation thickness, Weight	
Tank diameter	650 mm
Tank diameter with insulation	850 mm
Tank overall height	1935 mm
Tipping height without insulation	1970 mm
Tank perimeter insulation thickness	100 mm
Bottom insulation thickness	50 mm
Top insulation thickness	120 mm
Empty weight without insulation	157 kg

Accessories	
El. heating element (models)	ETT-C, J, L
Heating elem. max. length / output	3x 555 mm / 6 kW

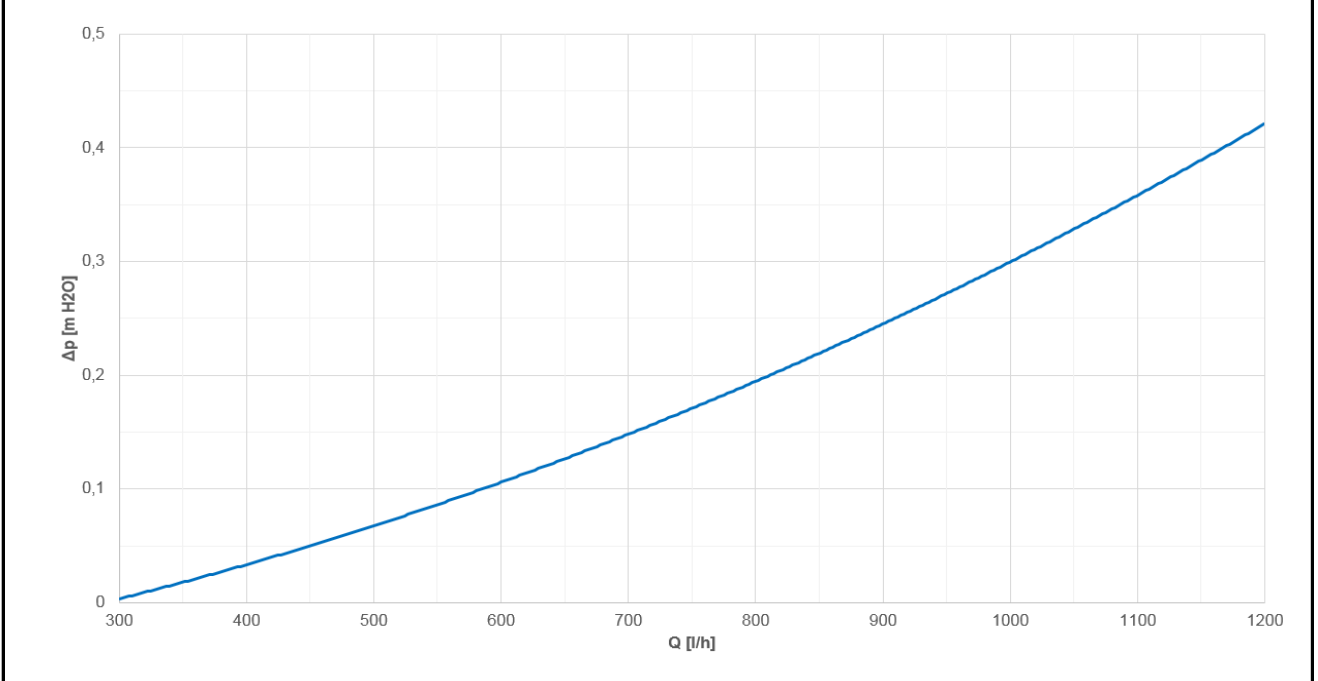
**HSK 600 PR Combination Thermal Store**

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]	1094	835	405	669	651	567	1037	1007	924	320	287	257

**DHW heat exchanger pressure drop**



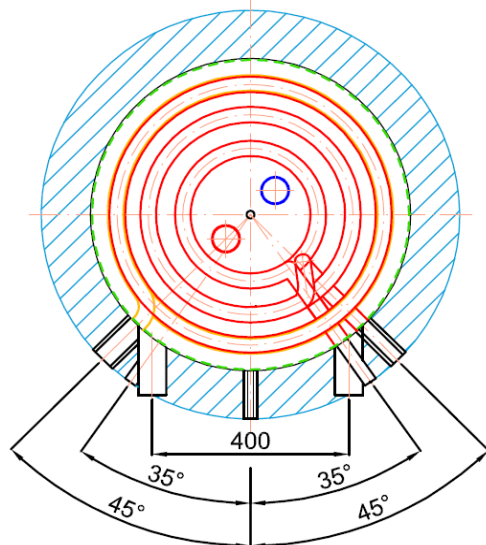
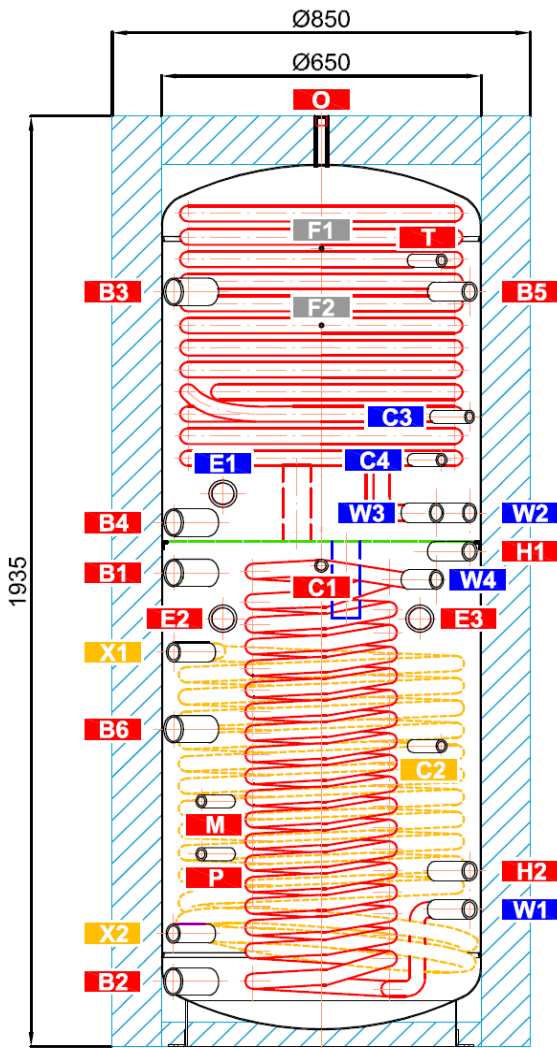
**Solar heat exchanger pressure drop**



**HSK 600 PR Combination Thermal Store**

**Dimensions**

Tipping height without insulation 1970 mm.



**TAPPINGS**

Pos.	Connection	Height [mm]
<b>Heat sources</b>		
B1	G 6/4" F	985
B2	G 6/4" F	135
B3	G 6/4" F	1570
B4	G 6/4" F	1090
B5	G 1" F	1570
B6	G 6/4" F	660
<b>Heating system</b>		
H1	G 1" F	1030
H2	G 1" F	365
<b>Solar thermal system</b>		
X1	G 1" F	820
X2	G 1" F	235
<b>EI . heating elements</b>		
E1	G 6/4" F	1150
E2	G 6/4" F	890
E3	G 6/4" F	890
<b>DHW heating</b>		
W1	G 1" M	285
W2	G 1" M	1110
W3	G 1" M	1110
W4	G 1" M	970
<b>Control and safety</b>		
C1	G 1/2" F	1000
C2	G 1/2" F	625
C3	G 1/2" F	1310
C4	G 1/2" F	1220
T	G 1/2" F	1635
M	G 1/2" F	510
P	G 1/2" F	400
<b>Air release</b>		
O	G 1/2" F	1935
<b>Pump station support</b>		
F1	M6	1660
F2	M6	1500