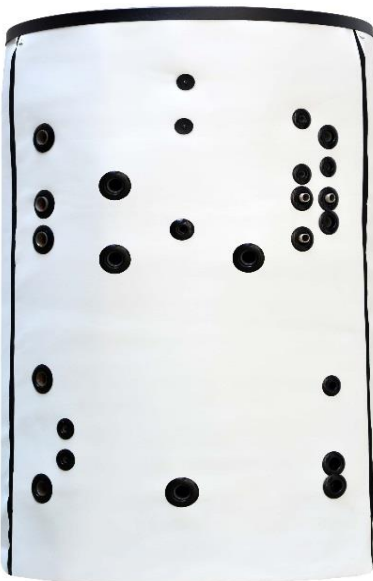


Main features	
Application	storage of thermal energy for DHW and space heating
Description	this combination Thermal Store utilizes a heat pump with PV panels as a heat source for both space and DHW heating; DHW is being prepared in 2 integrated stainless-steel heat exchangers; a tightly fitting separating metal plate increases the heat pump's seasonal coefficient of performance, a dedicated PV heating element is placed in the lower tank section; more electric heating elements can be installed if needed
Working fluid	water (tank); water, water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1) (heat exchangers)

HSK 1700 PV

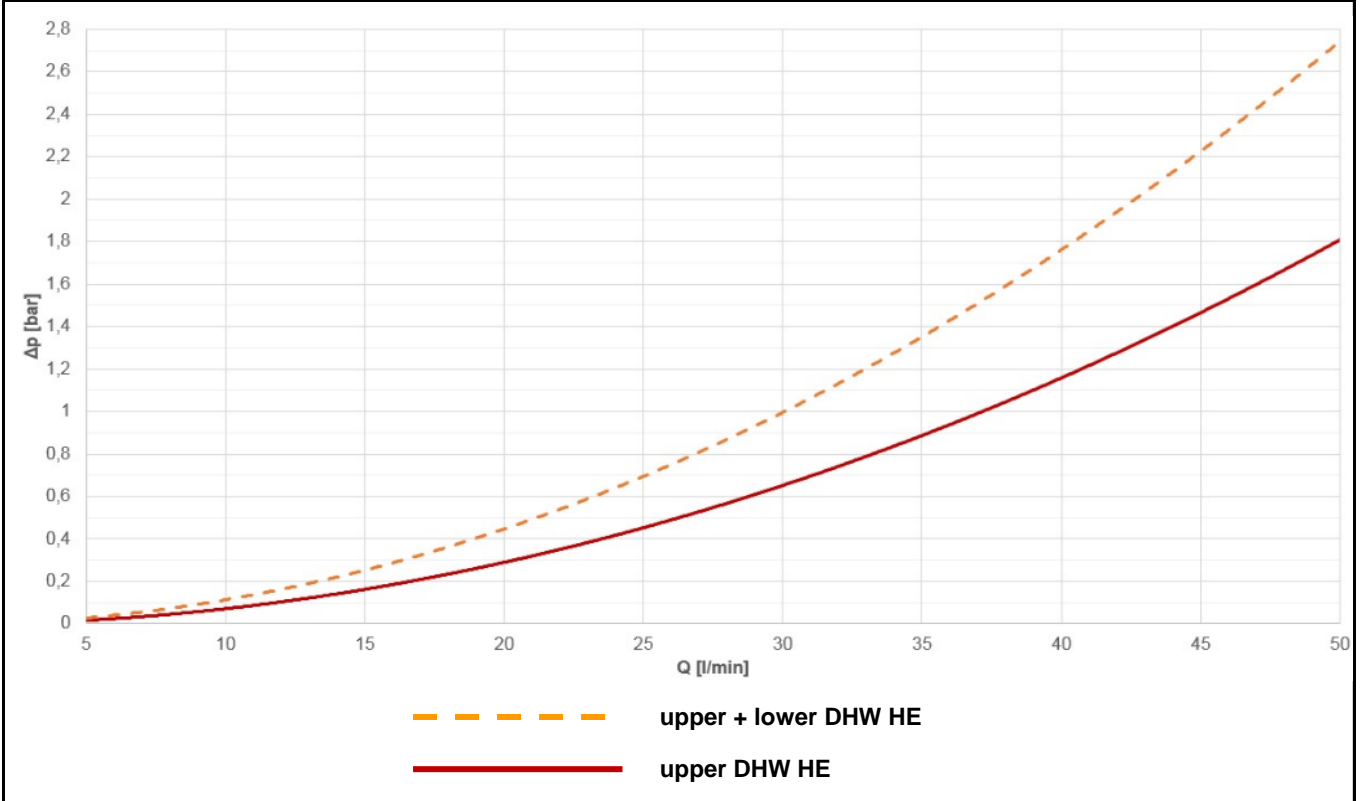
HSK 1700 PV with insulation


Code	
Thermal Store	16 183
Insulation	16 185
Energy Efficiency Data (as per EC Regulation No. 812/2013)	
HSK 1700 PV with insulation	
Energy efficiency class	N/A
Standing loss	179 W
Storage volume	1684 l
Technical data	
Total tank volume	1684 l
Fluid volume in tank	1652 l
Upper DHW heat exchanger volume	21 l
Lower DHW heat exchanger volume	11 l
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 temp. in DHW heat exchangers	95 °C
Max. working pressure in thermal store	3 bar
Max. working pressure in DHW heat exchangers	6 bar
Tank Materials	
Tank material	S235JR
DHW heat exchanger material	AISI 316 L
Materials	
Tank perimeter insulation	fleece
Tank perimeter insulation outer surface	PU leather
Top and bottom tank insulation	fleece
Dimensions, Tipping height, Weight	
Tank diameter	1100 mm
Tank diameter with insulation	1300 mm
Tank overall height	2075 mm
Tipping height without insulation	2350 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	type ETT-C, L, M
Heating elem. max. length / output	4x 955 mm / 12 kW

Volume of supplied DHW (heated from 10 °C to 40 °C)

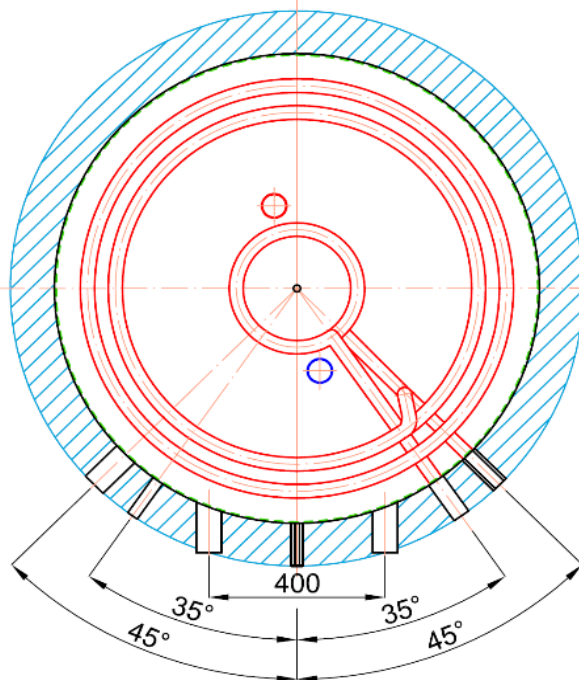
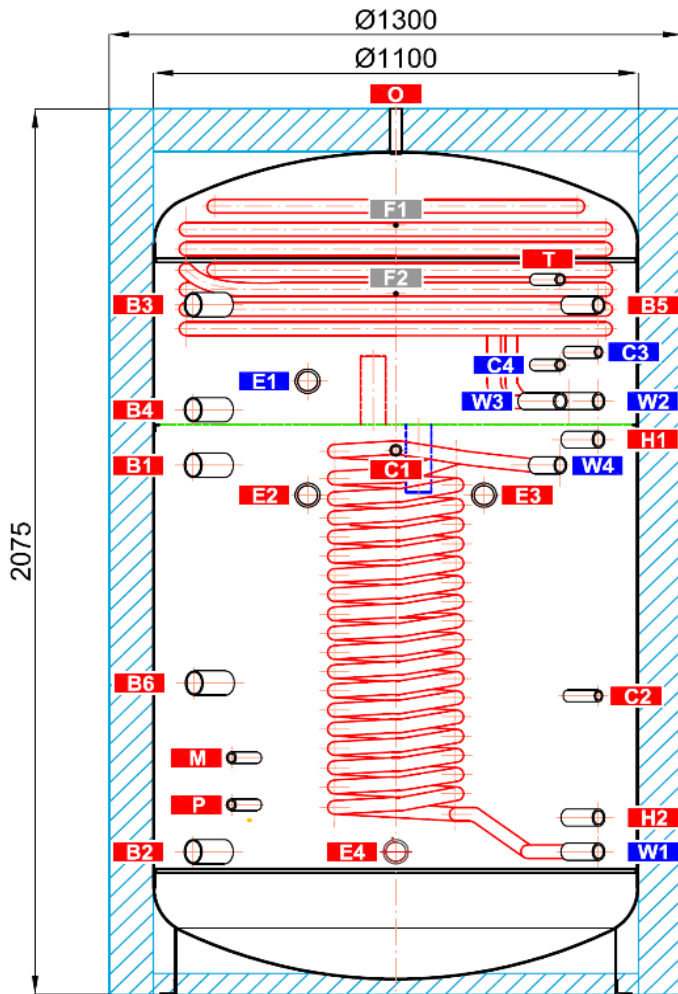
Heated volume	entire			entire			entire			above metal sheet		
Temperature in tank	60 °C			60 °C			80 °C			60 °C		
Backup heater	10 kW			none			none			10 kW		
Flow rate [l/min]	8	12	20	8	12	20	8	12	20	8	12	20
Hot water volume [l]	2642	2007	1498	1533	1407	1264	2369	2350	2179	836	631	423

Heat exchanger pressure drop



Dimensions

Tipping height without insulation 2350 mm.



TAPPINGS

pos.	connection	height [mm]
Heat sources		
B1	G6/4" F	1240
B2	G6/4" F	235
B3	G6/4" F	1615
B4	G6/4" F	1370
B5	G1" F	1615
B6	G6/4" F	730
Heating system		
H1	G1" F	1300
H2	G1" F	415
El. heating elements		
E1	G6/4" F	1437
E2	G6/4" F	1170
E3	G6/4" F	1170
E4	G6/4" F	335
DHW heating		
W1	G1" M	335
W2	G1" M	1390
W3	G1" M	1390
W4	G1" M	1240
0		
C1	G1/2" F	1275
C2	G1/2" F	700
C3	G1/2" F	1505
C4	G1/2" F	1475
T	G1/2" F	1675
M	G1/2" F	555
P	G1/2" F	445
Air release		
O	G1/2" F	2075
Pump station support		
F1	M6	1802
F2	M6	1642