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 600 PV

HSK 600 PV with insulation

Code	
Thermal Store	**16 158**
Insulation	**16 160**

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	HSK 600 PV with insulation
Energy efficiency class	N/A
Standing loss	101 W
Storage volume	557 l

Technical data	
Total tank volume	557 l
Fluid volume in tank	525 l
Upper DHW heat exchanger volume	21 l
Lower DHW heat exchanger volume	11 l
Upper DHW heat exchanger surface area	6 m²
Lower DHW heat exchanger surface area	3 m²
Max. working temp. in thermal store	95 °C
Max. working temp. in DHW heat exchangers	95 °C
Max. working pressure in thermal store	4 bar
Max. working pressure in DHW heat exchangers	6 bar

Tank Materials	
Tank material	S235JR
DHW heat exchanger material	AISI 316 L

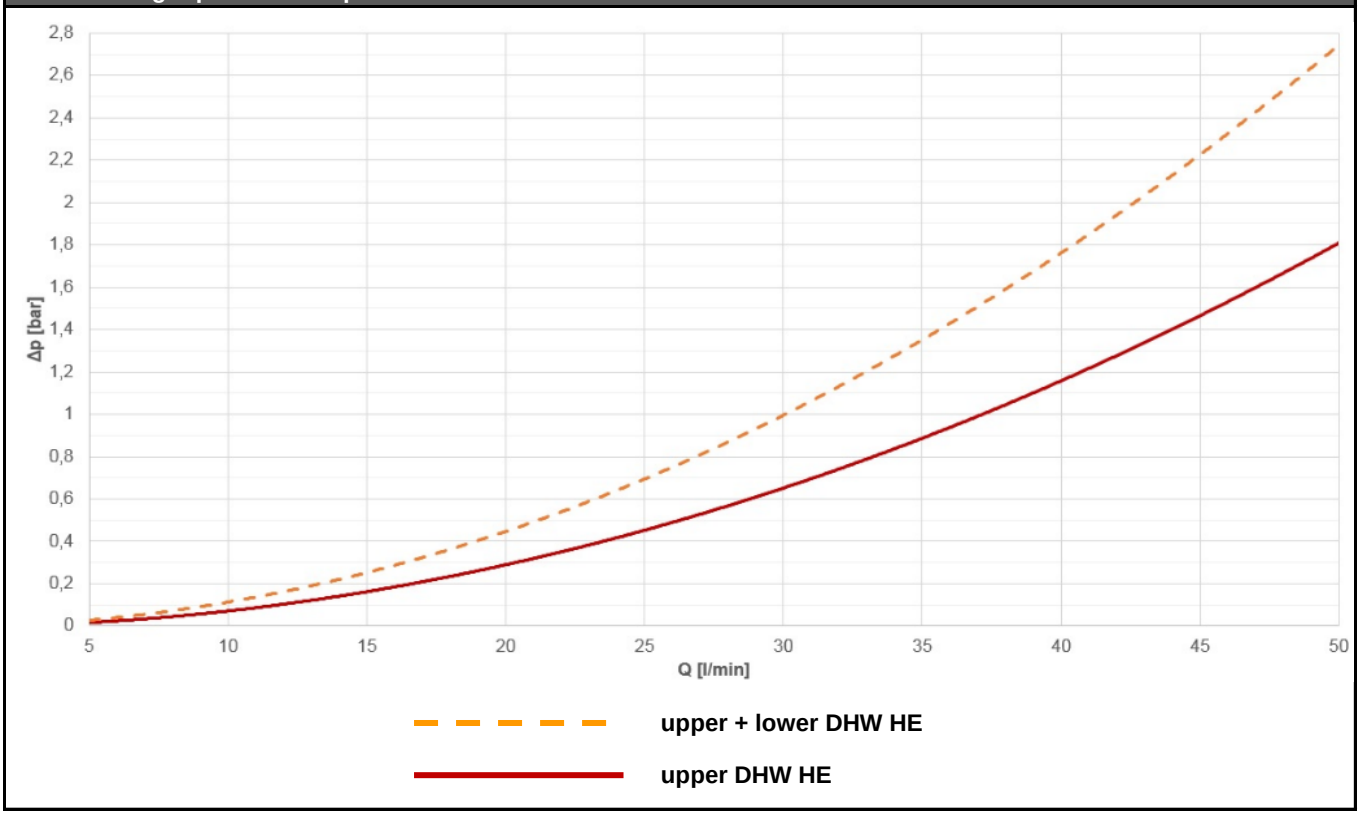
Materials	
Tank perimeter insulation	fleece
Tank perimeter insulation outer surface	PU leather
Top and bottom tank insulation	fleece

Dimensions, Tipping height, Weight	
Tank diameter	650 mm
Tank diameter with insulation	850 mm
Tank overall height	1935 mm
Tipping height without insulation	2050 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	type ETT-C, L, M
Heating elem. max. length / output	4x 555 mm / 6 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]	**1094**	**835**	**405**	**669**	**651**	**567**	**1037**	**1007**	**924**	**320**	**287**	**257**

Heat exchanger pressure drop



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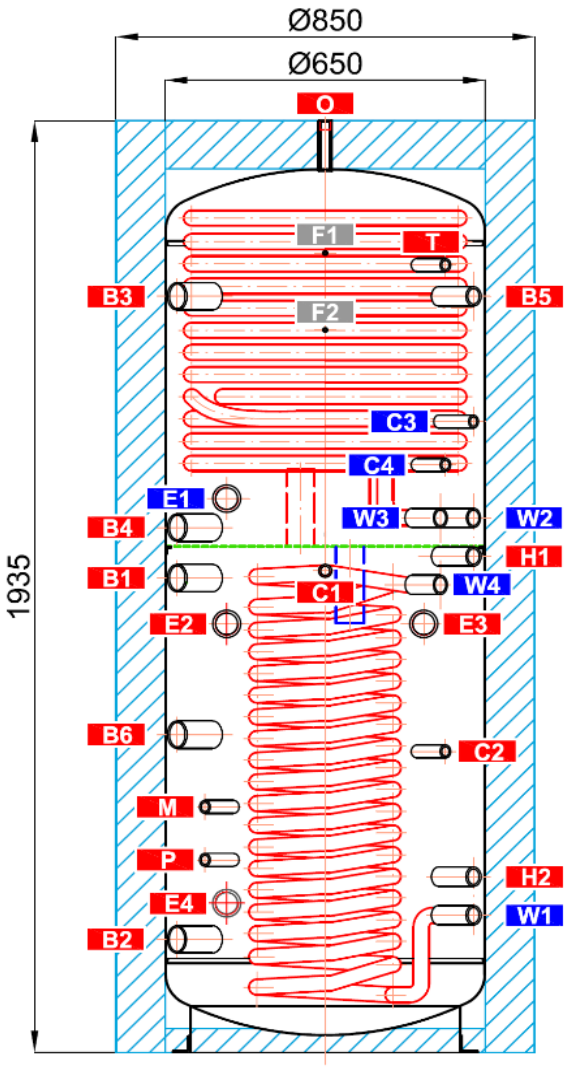
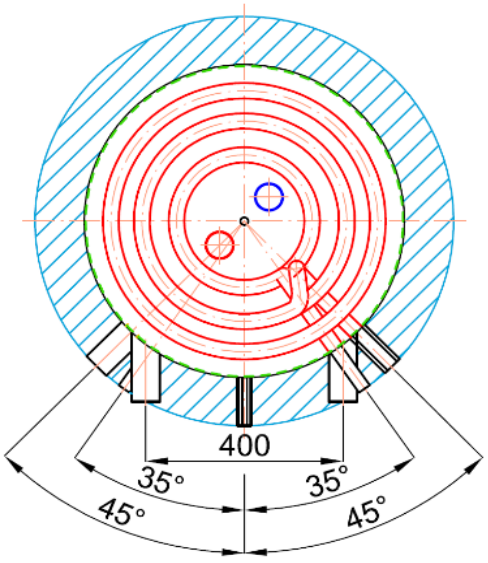
Dimensions

Tipping height without insulation 2050 mm.





TAPPINGS		
pos.	connection	height [mm]
Heat sources		
B1	G6/4" F	985
B2	G6/4" F	135
B3	G6/4" F	1570
B4	G6/4" F	1090
B5	G1" F	1570
B6	G6/4" F	660
Heating system		
H1	G1" F	1030
H2	G1" F	365
El. heating elements		
E1	G6/4" F	1150
E2	G6/4" F	890
E3	G6/4" F	890
E4	G6/4" F	310
DHW heating		
W1	G1" M	285
W2	G1" M	1110
W3	G1" M	1110
W4	G1" M	970
Control and safety		
C1	G1/2" F	1000
C2	G1/2" F	625
C3	G1/2" F	1310
C4	G1/2" F	1220
T	G1/2" F	1635
M	G1/2" F	510
P	G1/2" F	400
Air release		
O	G1/2" F	1935
Pump station support		
F1	M6	1660
F2	M6	1500