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 750 PV

HSK 750 PV with insulation

Code	
Thermal Store	**16 177**
Insulation	**16 179**

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	HSK 750 PV with insulation
Energy efficiency class	N/A
Standing loss	119 W
Storage volume	757 l

Technical data	
Total tank volume	757 l
Fluid volume in tank	725 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

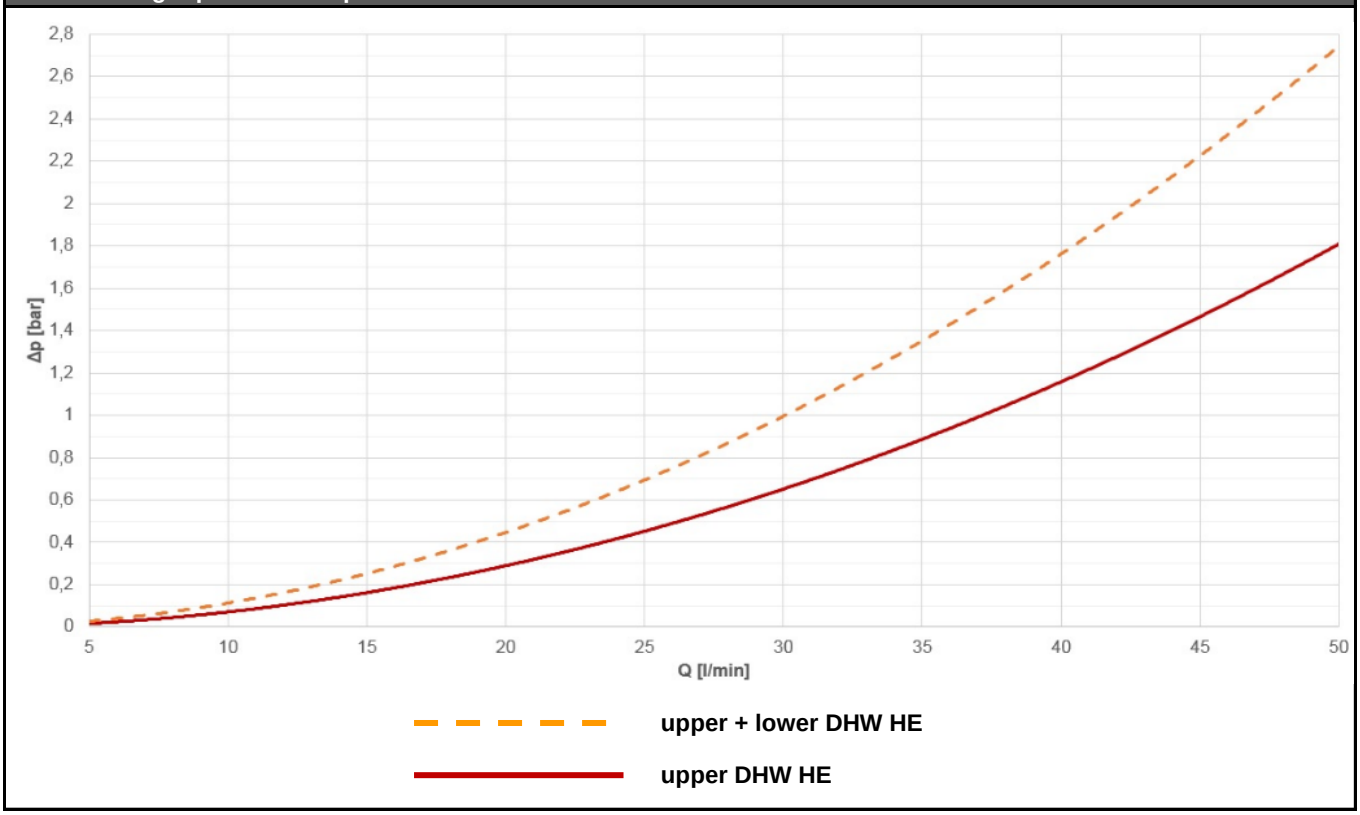
Materials	
Tank perimeter insulation	fleece
Tank perimeter insulation outer surface	PU leather
Top and bottom tank insulation	fleece

Dimensions, Tipping height, Weight	
Tank diameter	750 mm
Tank diameter with insulation	950 mm
Tank overall height	1975 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	170 kg

Accessories	
El. heating element	type ETT-C, L, M
Heating elem. max. length / output	4x 700 mm / 8,2 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]	**1212**	**965**	**739**	**784**	**720**	**677**	**1238**	**1186**	**1076**	**489**	**335**	**286**

Heat exchanger pressure drop



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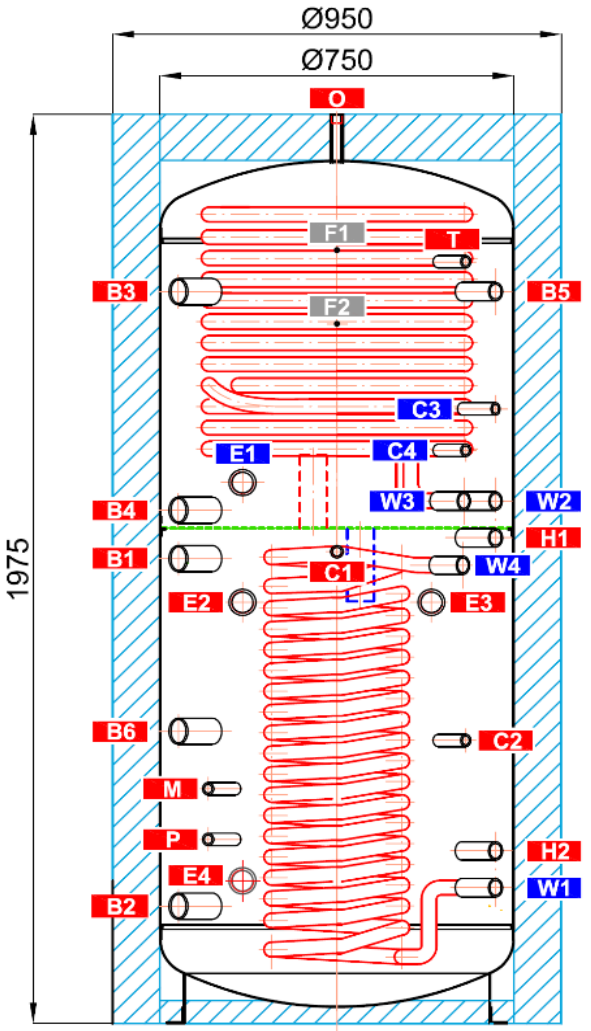
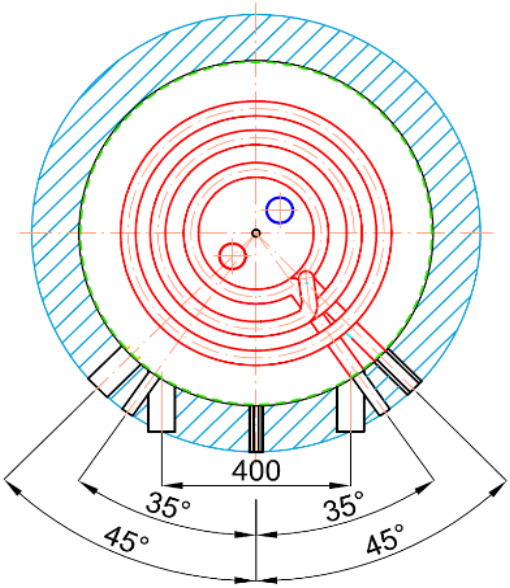
Dimensions

Tipping height without insulation 2120 mm.





TAPPINGS		
pos.	connection	height [mm]
Heat sources		
B1	G6/4" F	1010
B2	G6/4" F	155
B3	G6/4" F	1590
B4	G6/4" F	1115
B5	G1" F	1590
B6	G6/4" F	635
Heating system		
H1	G1" F	1055
H2	G1" F	375
El. heating elements		
E1	G6/4" F	1175
E2	G6/4" F	915
E3	G6/4" F	915
E4	G6/4" F	310
DHW heating		
W1	G1" M	295
W2	G1" M	1135
W3	G1" M	1135
W4	G1" M	995
0		
C1	G1/2" F	1025
C2	G1/2" F	615
C3	G1/2" F	1335
C4	G1/2" F	1245
T	G1/2" F	1655
M	G1/2" F	510
P	G1/2" F	400
Air release		
O	G1/2" F	1975
Pump station support		
F1	M6	1680
F2	M6	1520