

HSK 750 PV Combination Thermal Store



Main features	
Application	accumulation of thermal energy for space and DHW 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 (DHW heat exchanger) water; water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1) (thermal store)

Code	
Thermal Store	16177
Insulation	18842

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
HSK 750 PV with insulation	
Energy efficiency class	N/A
Standing loss	117 W
Storage volume	757 l

Technical Data	
Total tank volume	757 l
Fluid volume in tank	725 l
Fluid volume above the separating plate	304 l
Fluid volume below the separating plate	421 l
Upper DHW heat exchanger volume	21 l
Lower DHW heat exchanger volume	11 l
DHW heat exchanger surface area	6 m ²
Plocha výměníku TV pod dělicím plechem	3 m ²
Max. working temperature in Thermal Store	95 °C
Max. working temperature in DHW HE	95 °C
Max. working pressure in Thermal Store	4 bar
Max. working pressure in DHW HE	10 bar

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

Insulation Materials	
Tank perimeter insulation	fleece
Tank perimeter insulation outer surface	hard polystyrene
Top and bottom tank insulation	fleece

Dimensions, Tipping height, Insulation thickness, 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

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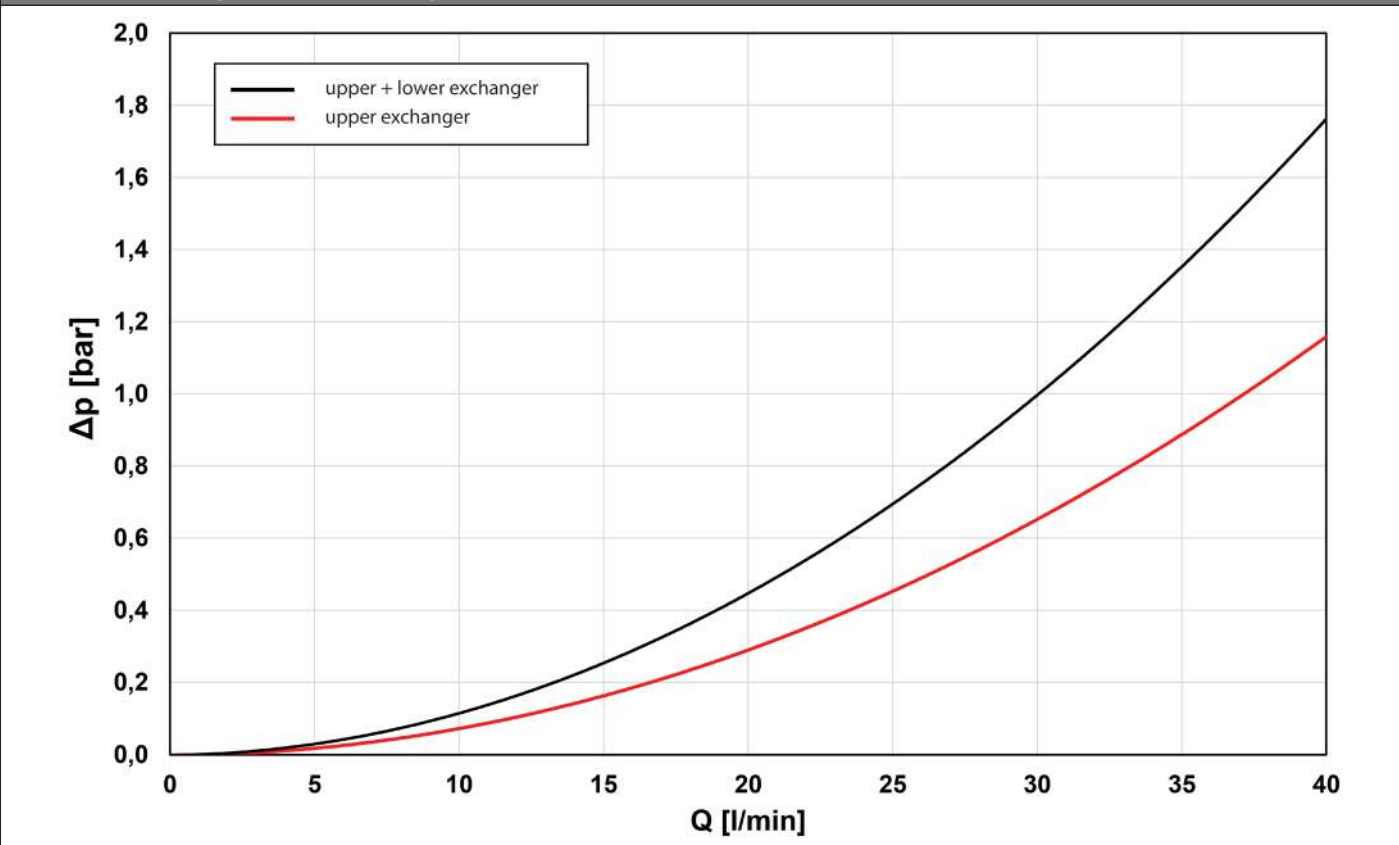
Accessories

El. heating element (models)	ETT-C, P, M
Heating elem. max. length / output	4x 700 mm / 8,2 kW

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

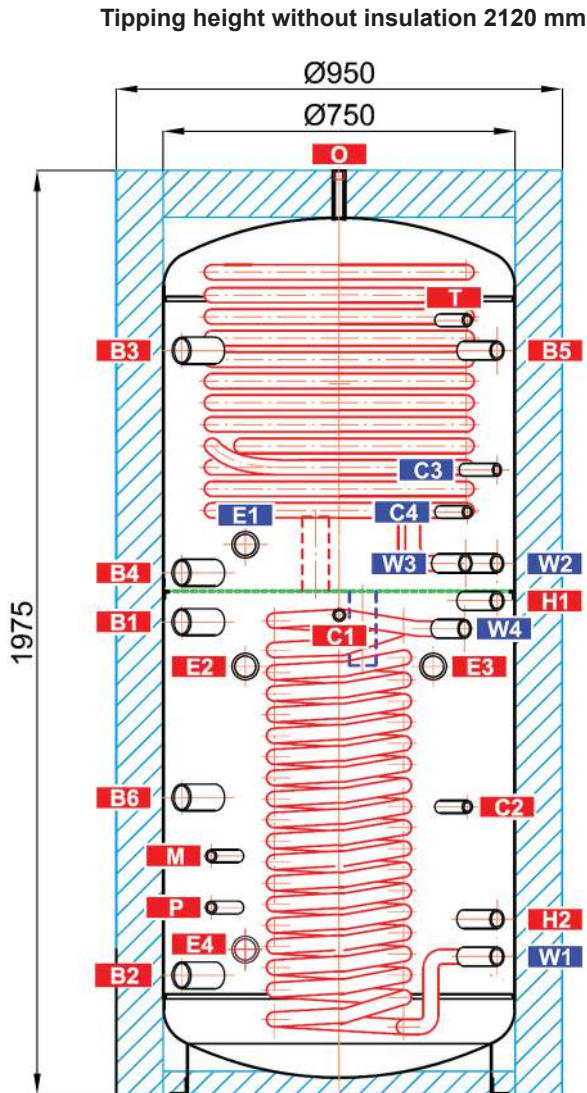
Heated volume	entire			entire			above metal sheet			entire			entire			above metal sheet			entire		
Temperature in tank	50 °C			50 °C			50 °C			60 °C			60 °C			60 °C			80 °C		
Backup heater	10 kW			none			10 kW			10 kW			none			10 kW			none		
Flow rate [l/min]	8	12	20	8	12	20	8	12	20	8	12	20	8	12	20	8	12	20	8	12	20
Hot water volume [l]	394	366	271	353	311	231	209	167	110	1212	965	739	784	720	677	489	335	286	1238	1186	1076

DHW heat exchanger pressure drop graph



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Dimensions



TAPPINGS

pos.	description	connec-tion	height [mm]
Heat sources			
B1	Incoming from heat source	G 6/4" F	1010
B2	Return to heat source	G 6/4" F	155
B3	Incoming from heat source	G 6/4" F	1590
B4	Return to heat source	G 6/4" F	1115
B5	Incoming from heat source	G 1" F	1590
B6	Incoming from heat source	G 6/4" F	635
Heating system			
H1	Supply to the heating circuit	G 1" F	1055
H2	Returnable from the heating circuit	G 1" F	375
EI . heating elements			
E1	Electric heating element for DHW heating	G 6/4" F	1175
E2	Electric heating element for space heating	G 6/4" F	915
E3	Electric heating element for space heating	G 6/4" F	915
E4	Electric heating element for PV system	G 6/4" F	310
DHW heating			
W1	Cold water	G 1" M	295
W2	Hot water	G 1" M	1135
W3	Circulation	G 1" M	1135
W4	Hot water	G 1" M	995
Control and safety			
C1	Temperature sensor	G 1/2" F	1025
C2	Temperature sensor	G 1/2" F	615
C3	Temperature sensor	G 1/2" F	1335
C4	Temperature sensor	G 1/2" F	1245
T	Thermometer	G 1/2" F	1655
M	Pressure gauge	G 1/2" F	510
P	Safety valve	G 1/2" F	400
Air release			
O	Air vent valve	G 1/2" F	1975