

HSK 1000 P Combination Thermal Store

HSK 1000 P

HSK 1000 P with insulation


Main features	
Application	accumulation of thermal energy for space and DHW heating
Description	combination thermal store with DHW heating in an integrated stainless-steel heat exchanger, fitted with a tight separating metal plate that increases Seasonal coefficient of performance (SCOP) of a heat pump
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	14555
Insulation	18843

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
HSK 1000 P with insulation	
Energy efficiency class	N/A
Standing loss	129 W
Storage volume	925 l

Technical Data	
Total tank volume	925 l
Fluid volume in tank	904 l
Fluid volume above the separating plate	314 l
Fluid volume below the separating plate	590 l
DHW heat exchanger volume	21 l
DHW heat exchanger surface area	6 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	800 mm
Tank diameter with insulation	1000 mm
Tank overall height	2080 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	130 kg

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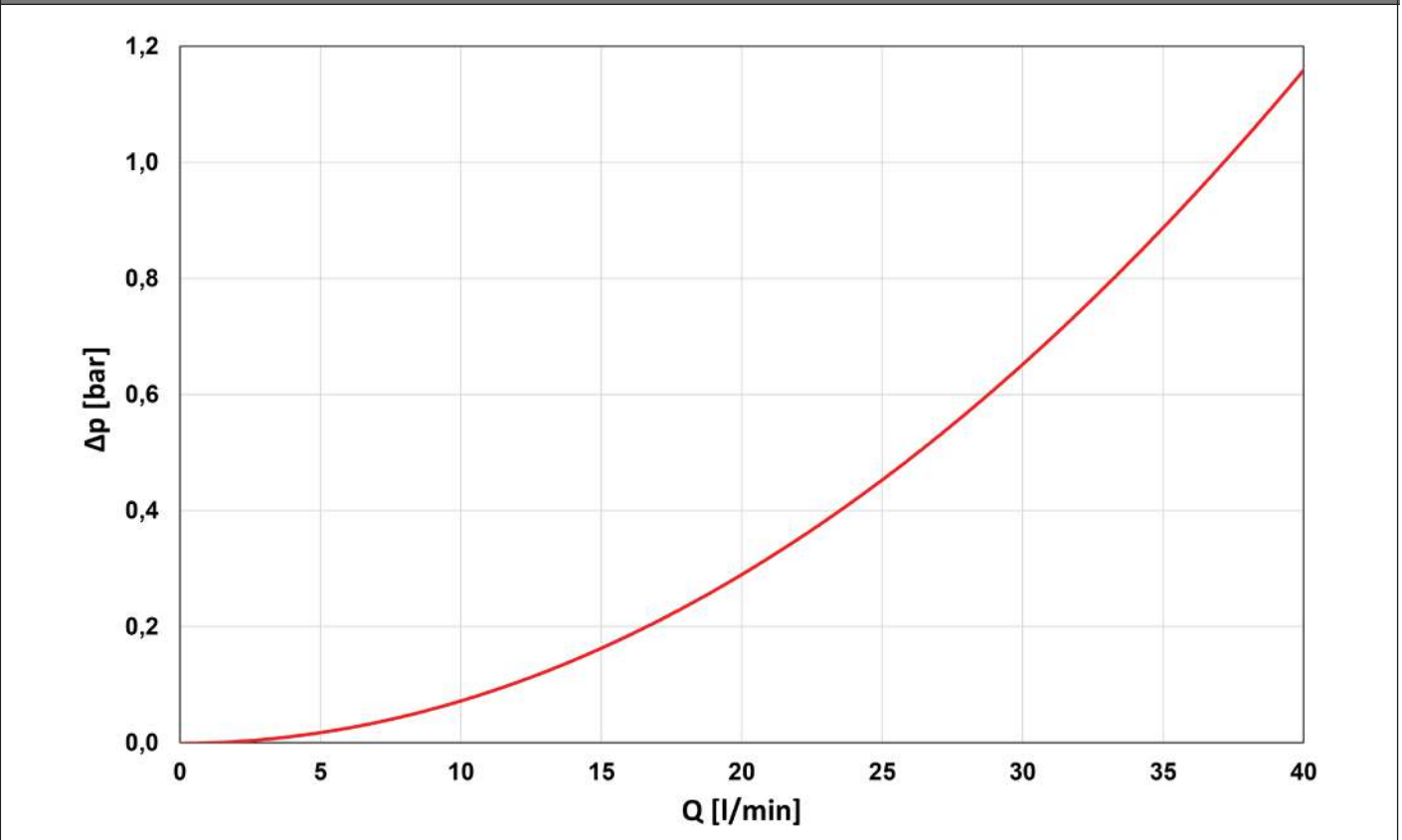
Accessories

El. heating element (models)	ETT-C, P, M
Heating elem. max. length / output	4x 755 mm / 9 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]	342	303	238	277	243	146	209	178	114	1086	672	698	592	523	546	394	281	264	993	948	844

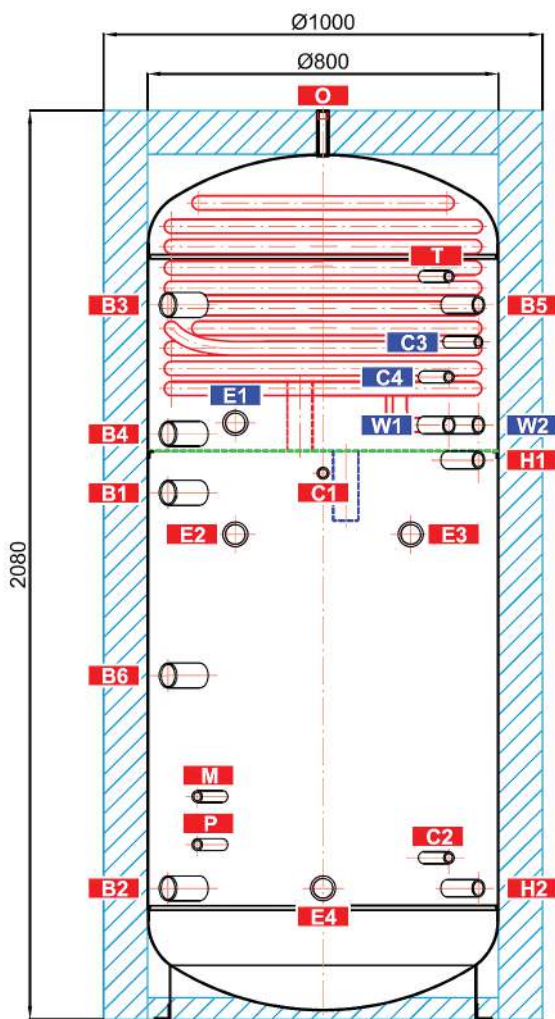
DHW heat exchanger pressure drop graph



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Dimensions

Tipping height without insulation 2110 mm



TAPPINGS

pos.	description	connec-tion	height [mm]
Heat sources			
B1	Incoming from heat source	G 6/4" F	1205
B2	Return to heat source	G 6/4" F	300
B3	Incoming from heat source	G 6/4" F	1635
B4	Return to heat source	G 6/4" F	1340
B5	Incoming from heat source	G 1" F	1635
B6	Incoming from heat source	G 6/4" F	787
Heating circuit			
H1	Supply to the heating circuit	G 1" F	1280
H2	Returnable from the heating circuit	G 1" F	300
El. heating elements			
E1	Electric heating element for DHW heating	G 6/4" F	1365
E2	Electric heating element for space heating	G 6/4" F	1110
E3	Electric heating element for space heating	G 6/4" F	1110
E4	Electric heating element for PV system	G 6/4" F	300
DHW heating			
W1	Cold water	G 1" M	1360
W2	Hot water	G 1" M	1360
Control and safety			
C1	Temperature sensor	G 1/2" F	1250
C2	Temperature sensor	G 1/2" F	370
C3	Temperature sensor	G 1/2" F	1550
C4	Temperature sensor	G 1/2" F	1470
T	Thermometer	G 1/2" F	1700
M	Pressure gauge	G 1/2" F	510
P	Safety valve	G 1/2" F	400
O	Air vent valve	G 1/2" F	2080