

HSK 390 P Combination Thermal Store

HSK 390 P



HSK 390 P with insulation



Main features	
Application	storage of thermal energy for DHW and space heating
Description	combination Thermal Store with immersed DHW heat exchanger made of stainless steel; with a tight separating sheet that increases seasonal performance factor of a heat pump and efficiency of solar thermal system
Working fluid	water (tank), water, water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1) (heat exchangers)

Code	
Thermal Store	13 517
Insulation	16 318

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	HSK 390 P with insulation
Energy efficiency class	C
Standing loss	83 W
Storage volume	398 l

Technical Data	
Total tank volume	398 l
Fluid volume in tank	377 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	6 bar

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

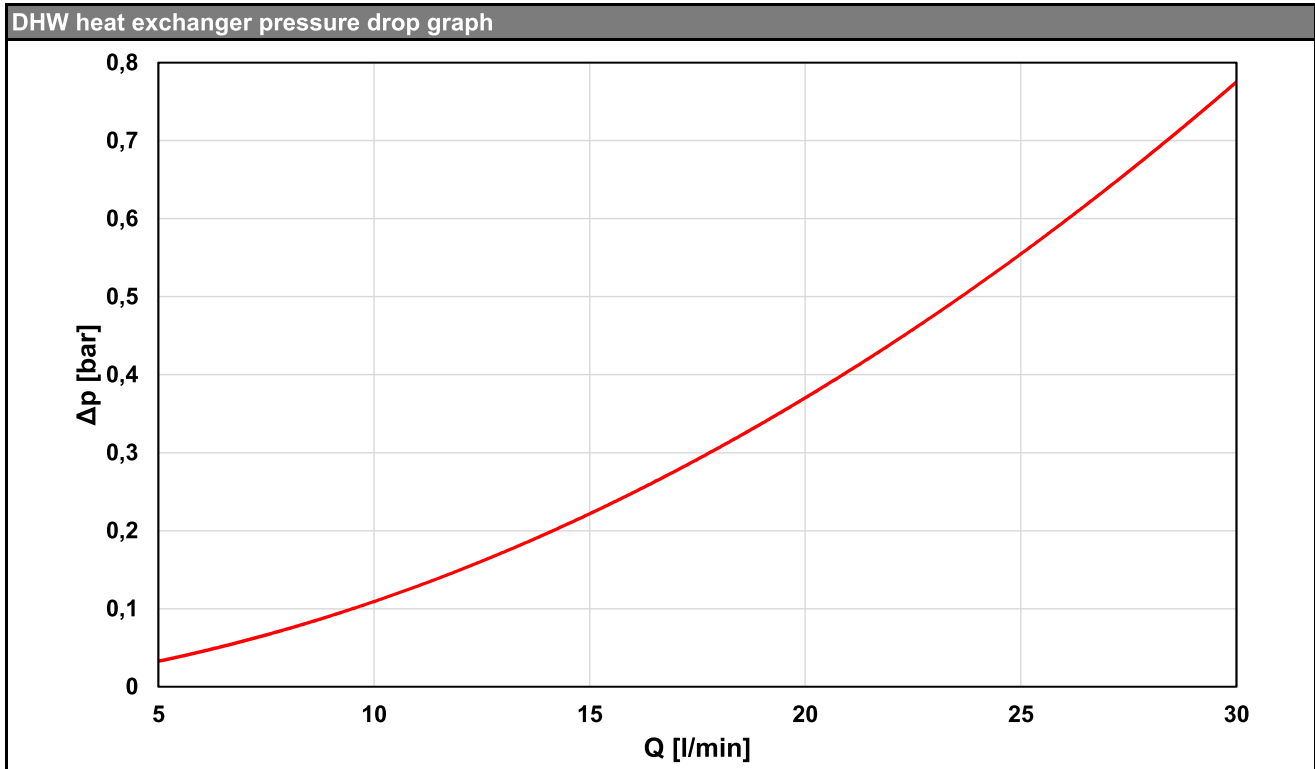
Insulation Materials	
Tank perimeter insulation	fleece
Tank perimeter insulation outer surface	PU leather
Top and bottom tank insulation	fleece

Dimensions, Tipping height, Insulation thickness, Weight	
Tank diameter	550 mm
Tank diameter with insulation	750 mm
Tank overall height	1905 mm
Tipping height without insulation	1940 mm
Tank perimeter insulation thickness	100 mm
Bottom insulation thickness	50 mm
Top insulation thickness	120 mm
Empty weight without insulation	91 kg

Accessories	
El. heating element (models)	ETT-C, L, M
Heating elem. max. length / output	4x 555 mm / 6 kW

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Volume of supplied DHW (heated from 10 °C to 40 °C)												
Heated volume	entire			entire			entire			above metal sheet		
Backup heater	10 kW			none			none			10 kW		
Flow rate [l/min]	8	12	20	8	12	20	8	12	20	8	12	20
Temperature in tank	60°C			60°C			80°C			60°C		
Hot water volume [l]	534	359	268	321	290	266	567	528	516	253	235	208
Temperature in tank	50°C			50°C			-			50°C		
Hot water volume [l]	363	237	120	222	187	101	-	-	-	195	132	106



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Dimensions

Tipping height without insulation 1940 mm.

TAPPINGS		
pos.	connection	height [mm]
Heat sources		
B1	G 1" F	780
B2	G 1" F	210
B3	G 1" F	1420
B4	G 1" F	880
B5	G 1" F	1420
B6	-	-
Heating system		
H1	G 1" F	780
H2	G 1" F	210
El. heating elements		
E1	G 6/4" F	1015
E2	G 6/4" F	720
E3	G 6/4" F	720
E4	G 6/4" F	210
DHW heating		
W1	G 1" M	1022
W2	G 1" M	1167
Control and safety		
C1	G 1/2" F	750
C2	G 1/2" F	290
C3	G 1/2" F	1190
C4	G 1/2" F	1050
T	G 1/2" F	1630
M	G 1/2" F	510
P	G 1/2" F	400
Air release		
O	G 1/2" F	1905
Pump station support		
F1	M6	1270
F2	M6	1430