

DATA SHEET

HSK 390 P Combination Thermal Store



HSK	390	P	with	insu	lation



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	13517
Insulation	18722

Energy Efficiency Data (as per EC Regulation No. 812/2013)							
HSK 390 P with insulation							
Energy efficiency class	С						
Standing loss	81 W						
Storage volume	398 I						

Technical Data	
Total tank volume	398 I
Total fluid volume in tank	377 I
Fluid volume above the separating plate	214 I
Fluid volume below the separating plate	163 I
Surface area of DHW heat exchanger above the separating plate	21 I
Surface area of DHW heat exchanger above the separating plate	6 m ²
Max. working temperature in tank	95 °C
Max. working temperature in DHW HE	95 °C
Max. working pressure in tank	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 thicknes	s, 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

Tel.: +420 241 765 191

Fax: +420 241 763 976

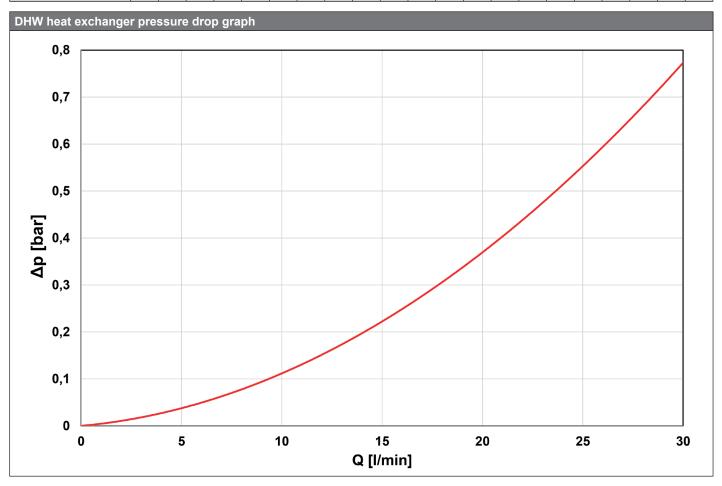


DATA SHEET

HSK 390 P Combination Thermal Store

Accessories	
El. heating element (models)	ETT-C, P, 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	;		ve m sheet			entire	;		entire)		ve m sheet			entire	:
Temperature in tank		50 °C	;		50 °C	;		50 °C	;		60 °C	;		60 °C	;	60 °C		60 °C 80 °C			
Backup heater		10 kV	/		none		10 kW 10 kW none 10 kW		10 kW		10 kW		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 [I]	363	237	120	222	187	101	195	132	106	534	359	268	321	290	266	253	235	208	567	528	516



Tel.: +420 241 765 191

Fax: +420 241 763 976

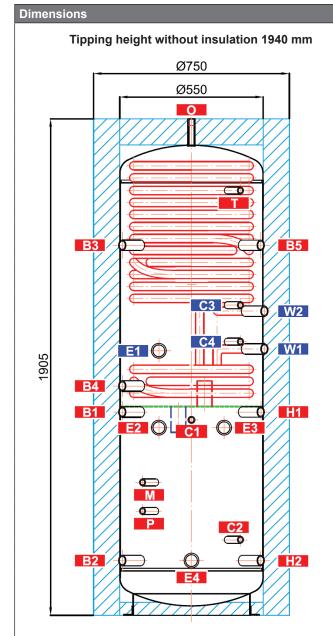


DATA SHEET

HSK 390 P Combination Thermal Store

Tel.: +420 241 765 191

Fax: +420 241 763 976



CONI	NECTIONS		
Pos.	Description	Connec- tion	Height [mm]
Heat	sources		
B1	Incoming from heat source	G 1" F	780
B2	Return to heat source	G 1" F	210
В3	Incoming from heat source	G 1" F	1420
B4	Return to heat source	G 1" F	880
B5	Incoming from heat source	G 1" F	1420
Heati	ng system		
H1	Flow to heating system	G 1" F	780
H2	Return from heating system	G 1" F	210
El. he	ating elements		
E1	Electric heating element for DHW heating	G 6/4" F	1015
E2	Electric heating element for space heating	G 6/4" F	720
E3	Electric heating element for space heating	G 6/4" F	720
E4	Electric heating element for PV system	G 6/4" F	210
DHW	heating		
W1	Cold water	G 1" M	1022
W2	Hot water	G 1" M	1167
Contr	ol and safety		
C1	Temperature sensor	G 1/2" F	750
C2	Temperature sensor	G 1/2" F	290
C3	Temperature sensor	G 1/2" F	1190
C4	Temperature sensor	G 1/2" F	1050
T	Thermometer	G 1/2" F	1630
M	Pressure gauge	G 1/2" F	510
P	Safety valve	G 1/2" F	400
Air re	lease		
0	Air vent valve	G 1/2" F	1905

