

# **DATA SHEET**

# **HSK 1000 PV Combination Thermal Store**





поп	1000	P۷	witti	msulation



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	16180	
Insulation	18845	

Energy Efficiency Data (as per EC Regulation No. 812/2013)								
HSK 1000 PV with insulation								
Energy efficiency class	N/A							
Standing loss	129 W							
Storage volume	922 I							

Technical Data	
Total tank volume	922
Fluid volume in tank	890 I
Fluid volume above the separating plate	314
Fluid volume below the separating plate	576 I
Upper DHW heat exchanger volume	21
Lower DHW heat exchanger volume	11
DHW heat exchanger surface area	6 m <sup>2</sup>
Plocha výměníku TV pod dělicím plechem	3 m <sup>2</sup>
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	2230 mm								
Tank perimeter insulation thickness	100 mm								
Bottom insulation thickness	50 mm								
Top insulation thickness	120 mm								
Empty weight without insulation	192 kg								

Tel.: +420 241 765 191

Fax: +420 241 763 976

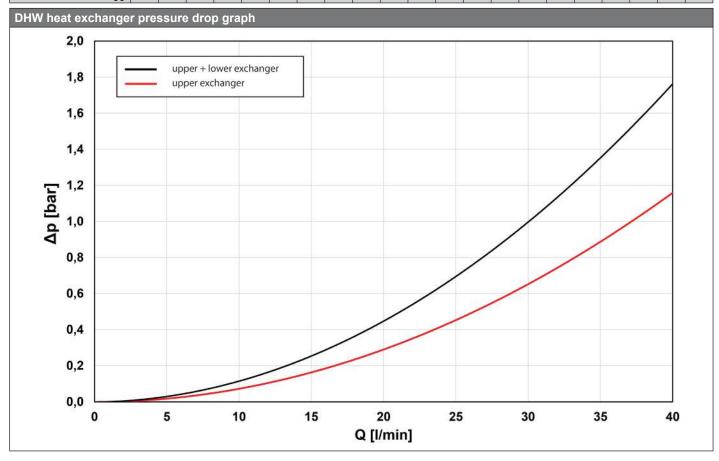


## **DATA SHEET**

### **HSK 1000 PV Combination Thermal Store**

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	;		ve m sheet			entire	;		entire	)		ve m sheet			entire		
Temperature in tank		50 °C	;	,	50 °C	;		50 °C	;	60 °C		;	60 °C		60 °C			80 °C				
Backup heater		10 kV	/		none		10 kW		10 kW		10 kW		10 kV	/		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 [I]	451	391	287	414	370	253	218	199	118	1381	1008	796	846	749	697	423	301	270	1406	1365	1173	



Tel.: +420 241 765 191

Fax: +420 241 763 976

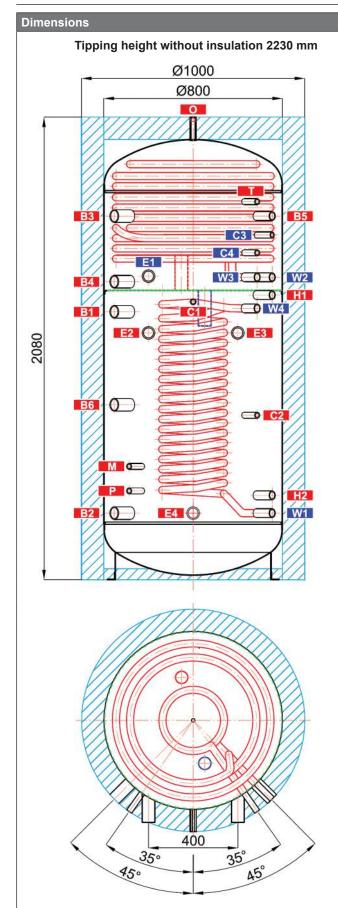


#### **DATA SHEET**

#### **HSK 1000 PV Combination Thermal Store**

Tel.: +420 241 765 191

Fax: +420 241 763 976



TAPPINGS									
pos.	description	height [mm]							
Heat	sources								
B1	Incoming from heat source	G 6/4" F	1205						
B2	Return to heat source	G 6/4" F	200						
В3	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						
Heatii	ng system								
H1	Supply to the heating circuit	G 1" F	1280						
H2	Returnable from the heating circuit	G 1" F	380						
El . he	eating 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	300						
W2	Hot water	G 1" M	1360						
W3	Circulation	G 1" M	1360						
W4	Hot water	G 1" M	1220						
Contr	ol and safety								
C1	Temperature sensor	G 1/2" F	1250						
C2	Temperature sensor	G 1/2" F	740						
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						
Р	Safety valve	G 1/2" F	400						
Air re	lease								
0	Air vent valve	G 1/2" F	2080						