

## HSK 750 PR Combination Thermal Store

**HSK 750 PR**

**HSK 750 PR 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 and the efficiency of a solar thermal system, with a solar heat exchanger in the lower tank section below the plate
Working fluid	water (tank) water, water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1) (heat exchangers)

**Code**

Thermal Store	<b>14190</b>
Insulation	<b>18841</b>

**Energy Efficiency Data (as per EC Regulation No. 812/2013)**

<b>HSK 750 PR with insulation</b>	
Energy efficiency class	N/A
Standing loss	116 W
Storage volume	738 l

**Technical Data**

Total tank volume	753 l
Fluid volume in tank	706 l
Fluid volume above the separating plate	304 l
Fluid volume below the separating plate	402 l
Solar heat exchanger volume	15 l
Upper DHW heat exchanger volume	21 l
Lower DHW heat exchanger volume	11 l
Solar heat exchanger surface area	2,5 m <sup>2</sup>
Upper DHW heat exchanger surface area	6 m <sup>2</sup>
Lower DHW heat exchanger surface area	3 m <sup>2</sup>
Max. working temp. in Thermal Store	95 °C
Max. working temperature in solar HE	95 °C
Max. working temp. in DHW heat exchangers	95 °C
Max. working pressure in Thermal Store	4 bar
Max. working pressure in solar HE	10 bar
Max. working pressure in DHW heat exchangers	10 bar

**Tank Materials**

Tank material	S235JR
Solar heat exchanger material	S235JR+N
DHW heat exchanger material	AISI 316 L

**Insulation Materials**

Tank perimeter insulation	fleece and polystyrene
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	2030 mm
Tank perimeter insulation thickness	100 mm
Bottom insulation thickness	50 mm
Top insulation thickness	120 mm
Empty weight without insulation	170 kg

## HSK 750 PR Combination Thermal Store

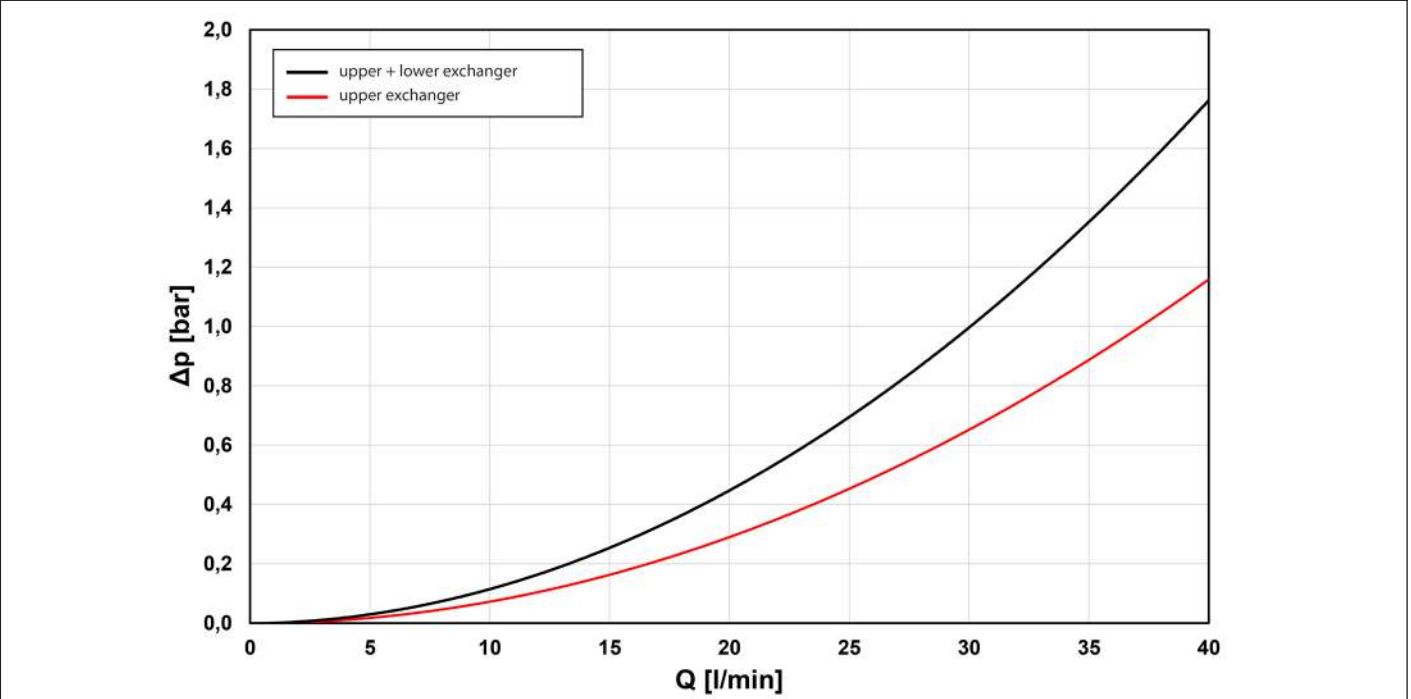
### Accessories

El. heating element (models)	ETT-C, M, P
Heating elem. max. length / output	3x 700 mm / 8,2 kW

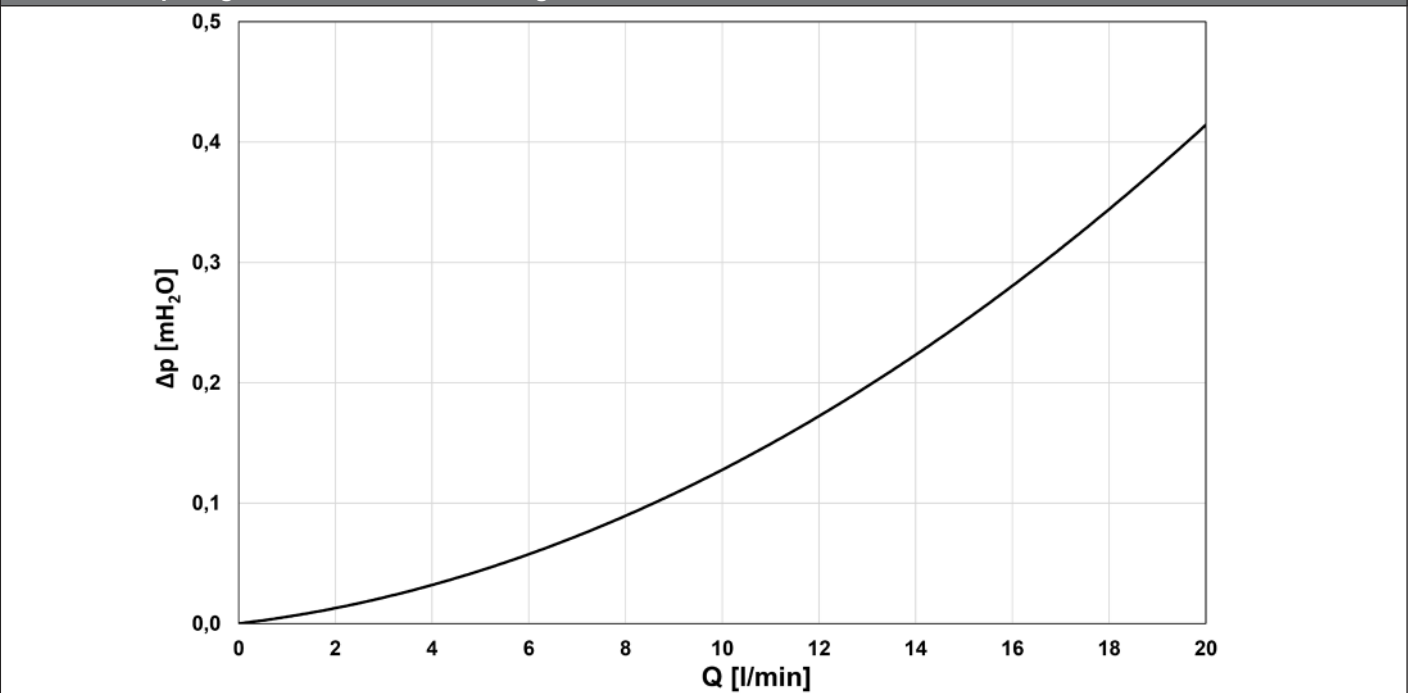
### Volume of supplied DHW (heated from 10 °C to 40 °C)

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
<b>Hot water volume [l]</b>	<b>394</b>	<b>366</b>	<b>271</b>	<b>353</b>	<b>311</b>	<b>231</b>	<b>209</b>	<b>167</b>	<b>110</b>	<b>1212</b>	<b>965</b>	<b>739</b>	<b>784</b>	<b>720</b>	<b>677</b>	<b>489</b>	<b>335</b>	<b>286</b>	<b>1238</b>	<b>1186</b>	<b>1076</b>

### Pressure Drop Diagram for DHW Heat Exchange



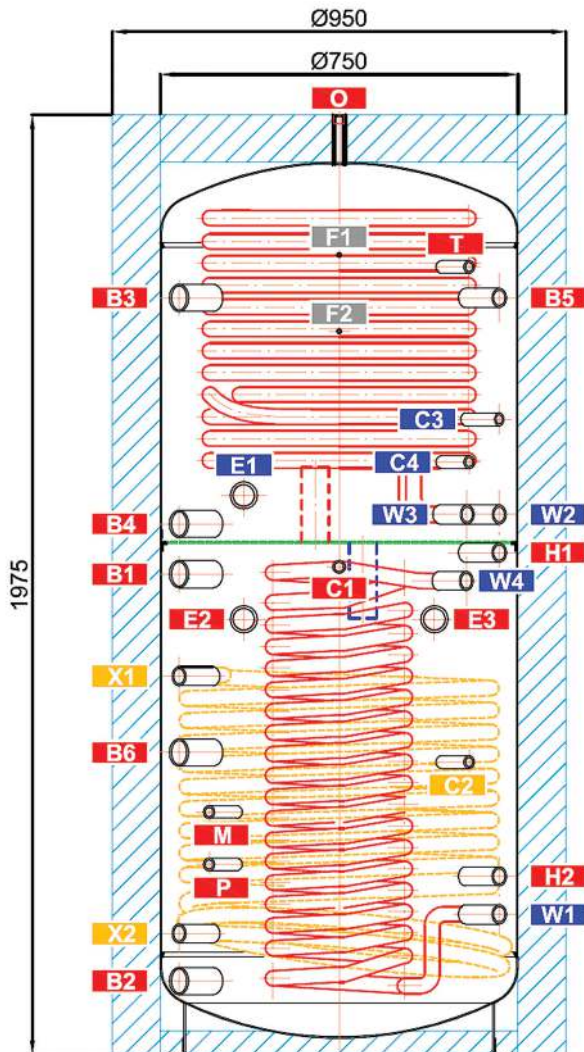
### Pressure Drop Diagram for Solar Heat Exchanger



## HSK 750 PR Combination Thermal Store

### Dimensions

Tipping height without insulation 2030 mm



### TAPPINGS

Pos.	Description	Connec-tion	Height [mm]
<b>Heat sources</b>			
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
<b>Heating system</b>			
H1	Flow to heating system	G 1" F	1055
H2	Return from heating system	G 1" F	375
<b>Solar thermal system</b>			
X1	Flow to heating system	G 1" F	795
X2	Return from heating system	G 1" F	255
<b>El. heating elements</b>			
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
<b>DHW heating</b>			
W1	Cold water	G 1" M	285
W2	Hot water	G 1" M	1135
W3	Circulation	G 1" M	1135
W4	Hot water	G 1" M	995
<b>Control and safety</b>			
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
<b>Air release</b>			
O	Air vent valve	G 1/2" F	1975
<b>Pump station support</b>			
F1	Pump station support – upper	M6	1680
F2	Pump station support – lower	M6	1520