

**HSK 600 P Combination Thermal Store**

<b>Main Features</b>	
Application	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. Thermal stores are supplied uninsulated. Thermal insulation is available as a separate item, see the codes below.
Working fluid	Water (heat exchanger), water; water-glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1 (thermal store).
Thermal store code	14175
Insulation code	18724

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

	valid for a thermal store with insulation
Energy efficiency class	N/A
Static loss	99 W
Storage volume	560 l

**Technical data**

Total thermal store volume	560 l
Fluid volume in thermal store	539 l
Fluid volume above separating plate	235 l
Fluid volume below separating plate	304 l
Fluid volume of DHW heat exchanger above the separating plate	21.0 l
Surface area of DHW heat exchanger above the separating plate	6.0 m <sup>2</sup>
Max. working temperature in thermal store	95 °C
Max. working temperature in DHW heat exchanger	95 °C
Max. working pressure in thermal store	4 bar
Max. working pressure in DHW heat exchanger	10 bar
Thermal store diameter	650 mm
Thermal store diameter with insulation	850 mm
Thermal store overall height	1935 mm
Tipping height without insulation	1970 mm
Thermal store perimeter insulation thickness	100 mm
Thermal store bottom insulation thickness	50 mm
Thermal store top insulation thickness	100 mm
Empty weight without insulation	102 kg

**Accessories**

Electric heating element	types ETT-C, P, F2, M, U
Heating element max. length	555 mm

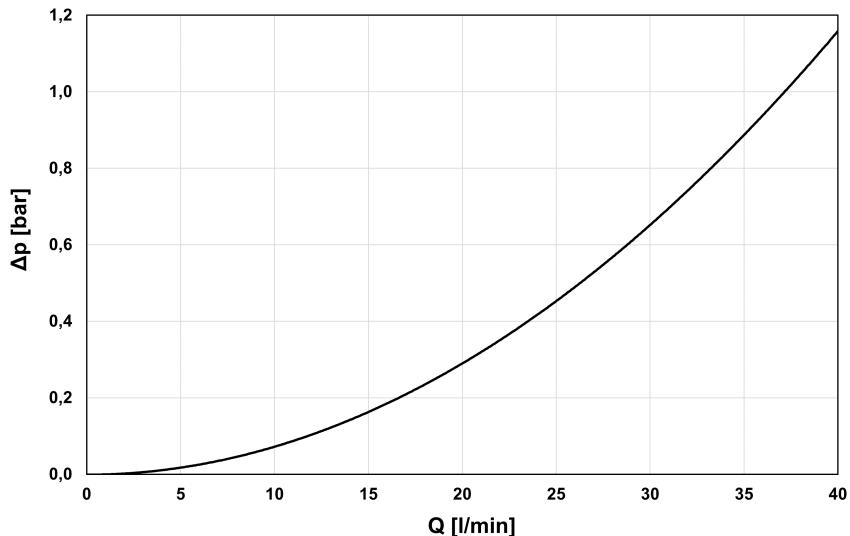
**Materials**

Thermal store material	S235JR
Thermal store perimeter insulation	fleece
Thermal store outer surface insulation	hard polystyrene
Top and bottom thermal store insulation	fleece
DHW heat exchanger	AISI 316 L

*Insulation thermal conductivity  $\lambda \leq 0.037 \text{ W/mK}$ , thermal resistance (short/long term) 150/100 °C, fire class E.*

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Volume of supplied DHW (heated from 10 °C to 40 °C)				
Heated volume	Temperature in thermal store	Backup heater	Flow rate [l/min]	Hot water volume [l]
Entire	50 °C	10 kW	8	187
			12	177
			20	111
Entire	50 °C	none	8	223
			12	180
			20	124
Above metal sheet	50 °C	10 kW	8	161
			12	144
			20	100
Entire	60 °C	10 kW	8	860
			12	557
			20	355
Entire	60 °C	none	8	468
			12	455
			20	444
Above metal sheet	60 °C	10 kW	8	298
			12	268
			20	252
Entire	80 °C	none	8	733
			12	699
			20	665

**DHW heat exchanger pressure drop graph**


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Dimensions			
CONNECTIONS			
pos.	description	connection	height [mm]
<b>Heat sources</b>			
<b>B1</b>	Supply from heat source	G 6/4" F	985
<b>B2</b>	Return to heat source	G 6/4" F	235
<b>B3</b>	Supply from heat source	G 6/4" F	1570
<b>B4</b>	Return to heat source	G 6/4" F	1090
<b>B5</b>	Supply from heat source	G 1" F	1570
<b>B6</b>	Supply from heat source	G 6/4" F	660
<b>Heating system</b>			
<b>H1</b>	Flow to heating system	G 1" F	1030
<b>H2</b>	Return from heating system	G 1" F	235
<b>Electric heating element</b>			
<b>E1</b>	El. heating element (DHW)	G 6/4" F	1150
<b>E2</b>	El. heating element (space heating)	G 6/4" F	890
<b>E3</b>	El. heating element (space heating)	G 6/4" F	890
<b>E4</b>	El. heating element (for PV system)	G 6/4" F	235
<b>DHW heating</b>			
<b>W1</b>	Cold water	G 1" M	1100
<b>W2</b>	Domestic hot water	G 1" M	1100
<b>Control and safety</b>			
<b>C1</b>	Temperature sensor	G 1/2" F	1000
<b>C2</b>	Temperature sensor	G 1/2" F	315
<b>C3</b>	Temperature sensor	G 1/2" F	1310
<b>C4</b>	Temperature sensor	G 1/2" F	1220
<b>T</b>	Thermometer	G 1/2" F	1635
<b>M</b>	Pressure gauge	G 1/2" F	510
<b>P</b>	Safety valve	G 1/2" F	400
<b>Air discharge</b>			
<b>O</b>	Air vent valve	G 1/2" F	1935