DATA SHEET

HSK 600 P Combination Thermal Store

Main Features	
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	21180
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 m²
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 λ ≤ 0.037 W/mK, thermal resistance (short/long term) 150/100 °C, fire class E.

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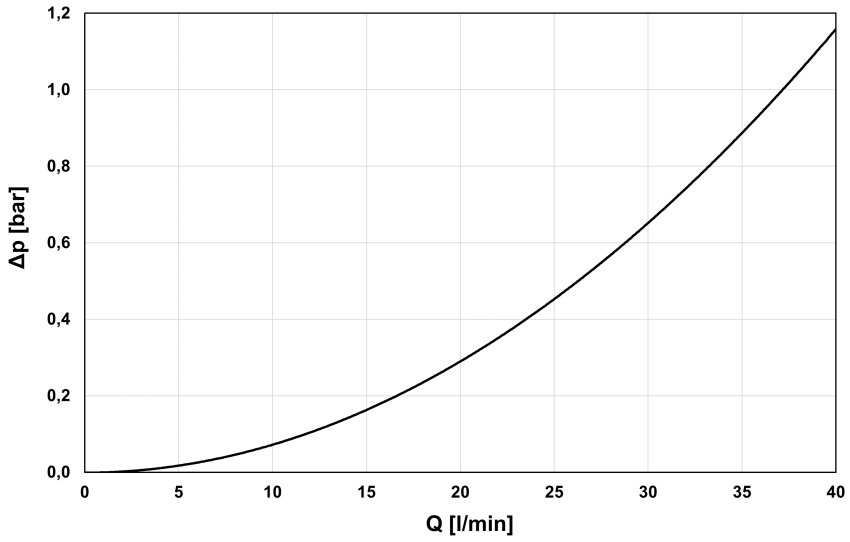
Volume of supplied DHW (heated from 10 °C to 40 °C)

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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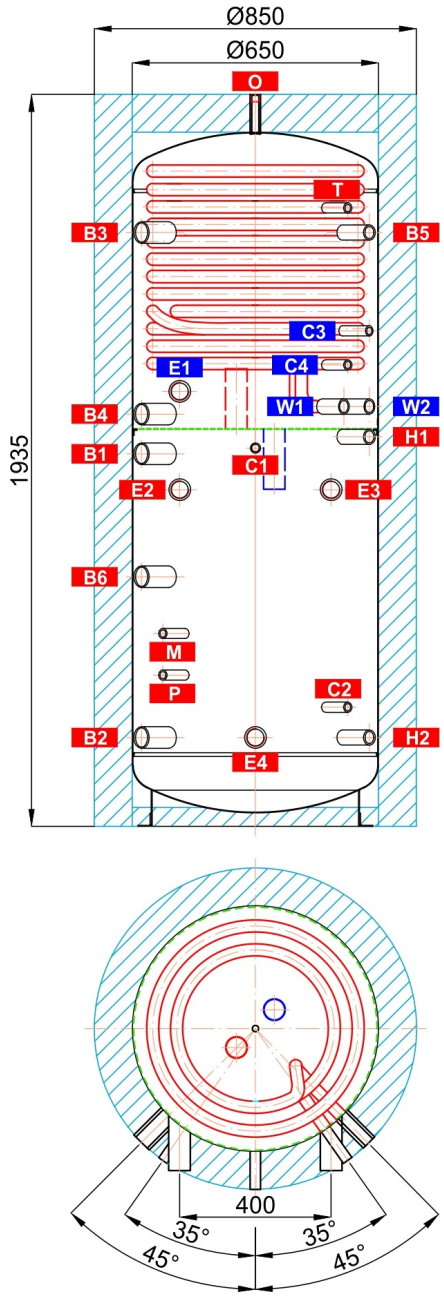
Dimensions



CONNECTIONS

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