

HSK 350 K P-B Combination Thermal Store

Main Features	
	Application Combination thermal store with integrated stainless-steel heat exchanger and a tight separating metal sheet is intended for heat accumulation and DHW heating. Thanks to its modified design and the tight separating metal sheet, just one zone valve is sufficient for switching between heating the upper and lower tank sections. The tank is suitable for installations with heat pumps and RegulusBOX indoor unit. The tank insulation is not included in supply and shall be ordered separately, see the code 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 18628
	Insulation code 18837

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	valid for a thermal store with insulation
Energy efficiency class	C
Static loss	74 W
Storage volume	340 l

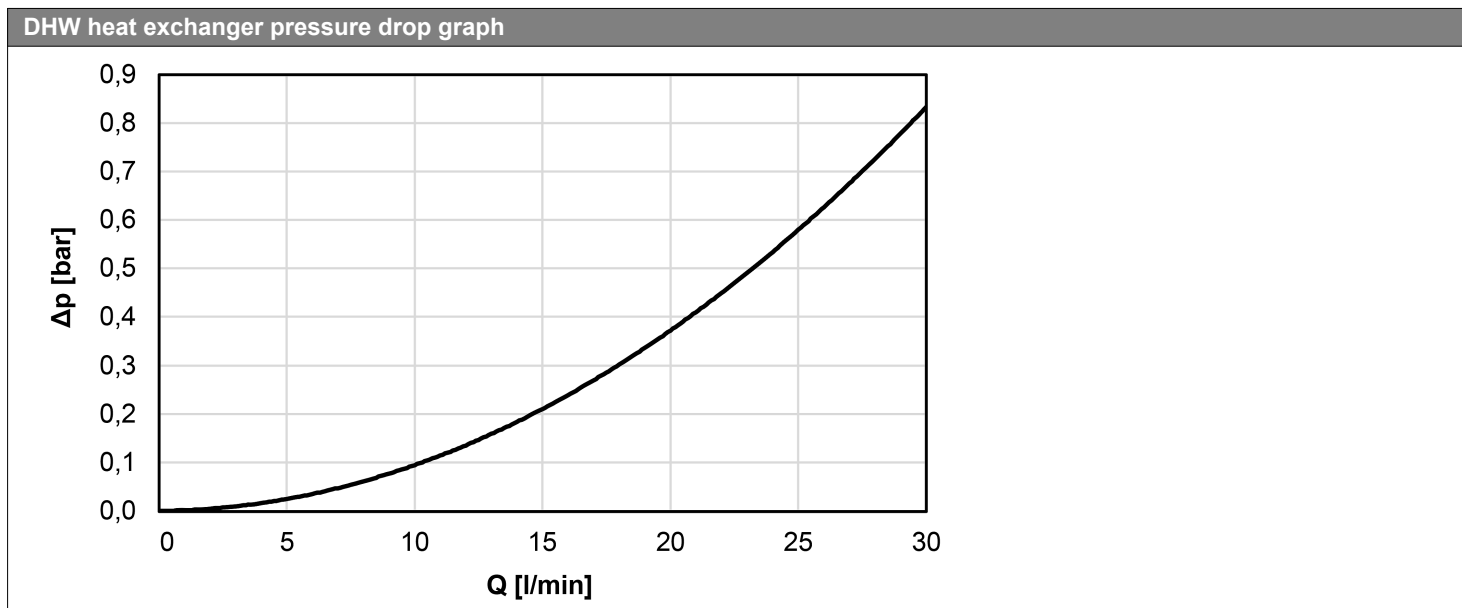
Technical data	
Total thermal store volume	340 l
Fluid volume in thermal store	319 l
Fluid volume above separating plate	200 l
Fluid volume below separating plate	119 l
Fluid volume of DHW heat exchanger above the separating plate	21.0 l
Surface area of DHW heat exchanger above the separating plate	6.0 m ²
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	550 mm
Thermal store diameter with insulation	750 mm
Thermal store overall height	1655 mm
Tipping height without insulation	1740 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	78 kg

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

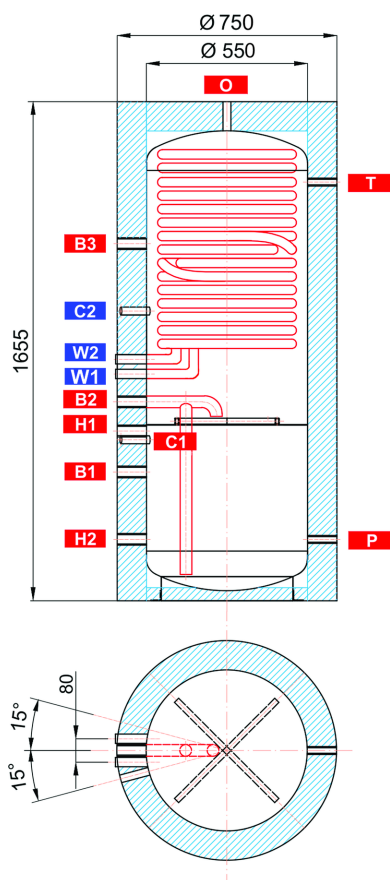
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Volume of supplied DHW (heated from 10 °C to 40 °C)				
Heated volume	Temperature in thermal store	Backup heater	Flow rate [l/min]	Hot water volume [l]
Entire	50 °C	10 kW	8	207
			12	165
			20	132
Entire	50 °C	none	8	165
			12	135
			20	111
Above metal sheet	50 °C	10 kW	8	197
			12	159
			20	127
Entire	60 °C	10 kW	8	287
			12	261
			20	218
Entire	60 °C	none	8	229
			12	211
			20	174
Above metal sheet	60 °C	10 kW	8	273
			12	248
			20	210



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Dimensions



CONNECTIONS

pos.	description	connection	height [mm]
Heat sources			
B1	Supply from heat source	G 1" F	390
B2	Return to heat source	G 1" F	630
B3	Supply from heat source	G 1" F	1170
Heating system			
H1	Flow to heating system	G 1" F	530
H2	Return from heating system	G 1" F	210
DHW heating			
W1	Cold water	G 1" F	725
W2	Domestic hot water	G 1" F	775
Control and safety			
C1	Temperature sensor	G 1/2" F	500
C2	Temperature sensor	G 1/2" F	940
T	Thermometer	G 1/2" F	1380
P	Safety valve	G 1/2" F	210
Air discharge			
O	Air vent valve	G 1/2" F	1655