

DATA SHEET

HSK 250 PB 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	20294
Insulation code	20296

Energy Efficiency Data (as per EC Regulation No. 812/2013)				
	valid for a thermal store with insulation			
Energy efficiency class	С			
Static loss	71 W			
Storage volume	260			

Technical data	
Total thermal store volume	260 l
Fluid volume in thermal store	239
Fluid volume above separating plate	175 l
Fluid volume below separating plate	64 I
Fluid volume of DHW heat exchanger above the separating plate	21.0
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	450 mm
Thermal store diameter with insulation	650 mm
Thermal store overall height	1850 mm
Tipping height without insulation	1860 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	76 kg

Accessories	
Electric heating element	types ETT-A, D2, R, S, C, F2, M, P, U
Heating element max. length	500 mm



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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

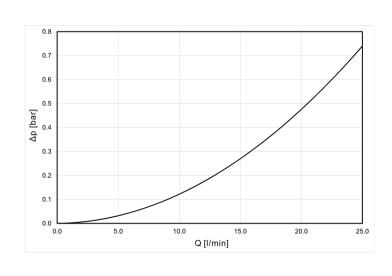
Insulation thermal conductivity \(\lambda\) \(\lambda\) 0.037 W/mK, thermal resistance (short/long term) 150/100 °C, fire class E.

Volume of supplied DHW (heated fi	rom 10 °C to 40 °C)			
Heated volume	Temperature in thermal store	Backup heater	Flow rate [l/min]	Hot water volume [I]
Entire		10 kW	8	191
	50 °C		12	154
			20	123
Entire		none	8	151
	50 °C		12	125
			20	100
Above metal sheet		10 kW	8	176
	50 °C		12	142
			20	116
Entire		10 kW	8	265
	60 °C		12	244
			20	203
Entire		none	8	210
	60 °C		12	196
			20	156
Above metal sheet		10 kW	8	244
	60 °C		12	222
			20	192

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DHW heat exchanger pressure drop graph





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