

**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; water/glycol mixture (max. 1:1) or water-glycerine mixture (max. 2:1) (tank); water (heat exchanger)

**Tank Code** **18628**

**Insulation Code** **18837**

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

**Energy Efficiency Class** C

**Standing loss** 74 W

**Storage volume** 340 l

**Technical Data**

Total tank volume	340 l
Fluid volume in tank	319 l
DHW heat exchanger volume	21 l
DHW heat exchanger surface area	6 m <sup>2</sup>
Max. temperature in tank	95 °C
Max. temperature in DHW heat exchanger	95 °C
Max. pressure in tank	4 bar
Max. pressure in DHW heat exchanger	10 bar
Tank diameter	550 mm
Tank diameter with insulation	750 mm
Tank overall height	1655 mm
Tank perimeter insulation thickness	100 mm
Bottom insulation thickness	50 mm
Top insulation thickness	120 mm
Tipping height	1740 mm
Empty weight without insulation	82 kg

**Materials**

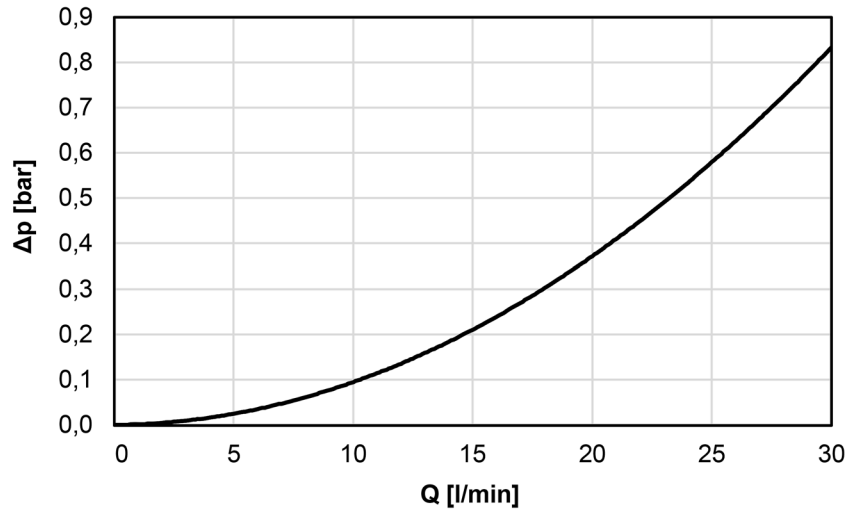
Tank material	S235JR
DHW heat exchanger material	AISI 316L
Tank insulation material	fleece and polystyrene
Outer surface of the insulation	rigid polystyrene

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

Heated volume	entire			entire			above separating metal plate		
	Backup heating	10 kW			none			10 kW	
Flow rate [l/min]	8	12	20	8	12	20	8	12	20
Temperature in tank	60 °C			60 °C			60 °C		
Hot water volume [l]	287	261	218	229	211	174	273	248	210
Temperature in tank	50 °C			50 °C			50 °C		
Hot water volume [l]	207	165	132	165	135	111	197	159	127

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Pressure Drop Graph for DHW heat exchanger



Dimensions

pos.	description	connection	height [mm]
<b>Heat sources</b>			
B1	Incoming from heat source	G 1" F	390
B2	Return to heat source	G 1" F	630
B3	Incoming from heat source	G 1" F	1170
<b>Heating system</b>			
H1	Flow to heating system	G 1" F	530
H2	Return from heating system	G 1" F	210
<b>DHW heating</b>			
W1	Cold water	G 1" F	725
W2	Return from heating system	G 1" F	775
<b>Control and safety</b>			
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
<b>Others</b>			
O	Air release	G 1/2" F	1655

