

HSK 220 TV Thermal Store for DHW heating

		Main Features
		Application A thermal store designed for continuous DHW heating in an integrated stainless-steel heat exchanger. It can be easily placed under RegulusBOX.
Working fluid Water (heat exchanger), water, water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1) (thermal store).		
Thermal store code 19617		
Insulation code 19619		

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

Energy efficiency class	B
Static loss	62 W
Storage volume	222 l

Technical data

Total thermal store volume	222 l
Fluid volume in thermal store	201 l
Fluid volume of DHW heat exchanger	21.0 l
Surface area of DHW heat exchanger	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	710 mm
Thermal store overall height	1105 mm
Tipping height without insulation	1152 mm
Thermal store perimeter insulation thickness	80 mm
Thermal store bottom insulation thickness	50 mm
Thermal store top insulation thickness	50 mm
Empty weight without insulation	55 kg

Materials

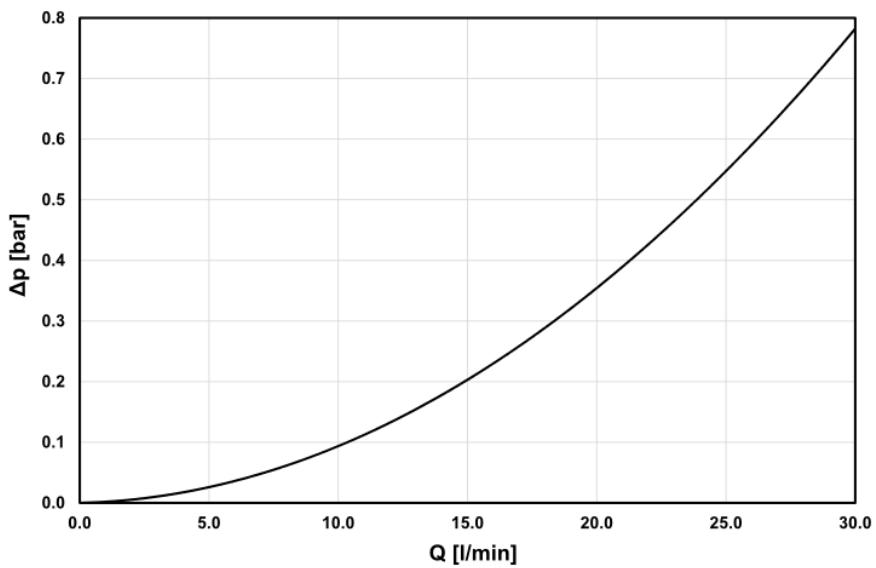
Thermal store material	S235JR
Thermal store perimeter insulation	fleece
Thermal store outer surface insulation	hard polystyrene
Top thermal store insulation	polystyrene + fleece
Bottom thermal store insulation	fleece
DHW heat exchanger	AISI 316 L

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	144
			12	129
			20	114
Entire	50 °C	none	8	138
			12	110
			20	98
Entire	60 °C	10 kW	8	286
			12	236
			20	205
Entire	60 °C	none	8	233
			12	226
			20	176

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 1" F	1105
B2	Return to heat source	G 1" F	1105
DHW heating			
W1	Cold water	G 1" M	220
W2	Domestic hot water	G 1" M	870
Control and safety			
C1	Temperature sensor	G 1/2" F	390
T	Thermometer	G 1/2" F	840
V	Drain valve	G 1/2" F	220
Air discharge			
O	Air vent valve	G 1/2" F	1105