

DATA SHEET

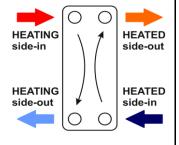
Plate heat exchanger DV800, insulated

v2.0_10/2020

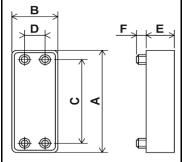
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Inlet / outlet marking



Dimensions



Main features		
Application	suitable for large solar thermal systems, district heating transfer stations or high-performance systems due to its design	
Description	Description consisting of thin pressed stainless-steel plates, copper solder it comes in thermal insulation	
Working fluid	water, antifreeze fluid for heating and solar thermal systems and heat pumps	

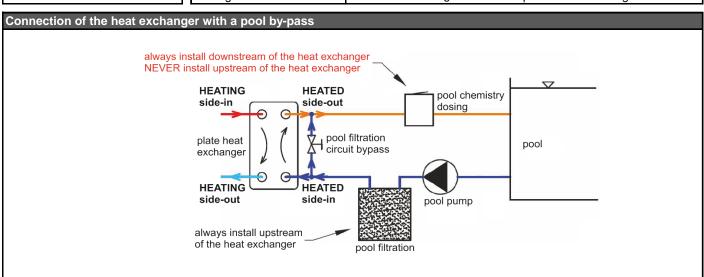
Codes		
10490	DV800-30E	
10491	DV800-50E	

Technical data					
Туре	DV800-30E	DV800-50E			
Number of plate	30	50			
Heat-exchange surface	4,80 m²	8,00 m²			
Liquid volume (heating)	4,40 l	7,70 l			
Liquid volume (heated)	4,40 l	7,70 l			
Max. working pressure	10 bar	6 bar			
Max. working temp.	185 / 150 / 175 °C *				

* without insulation / with insulation permanent / with insulation short term

Materials				
Heat exchanger AISI 316 L				
Insulation	EPDM			

Dimensions with insulation and weight					
Size of connection pipes	G 2" M	G 2" M			
Height (dim. A)	605 mm	605 mm			
Width (dim. B)	310 mm	310 mm			
Thickness (dim. E)	115 mm	165 mm			
Pitch (dim. C)	475 mm	475 mm			
Pitch (dim. D)	185 mm	185 mm			
Socket height (dim. F)	35 mm	35 mm			
Weight incl. insulation	34 kg	47 ka			



The heat exchangers are designed individually on order, based on the specific parameters of a heating system.

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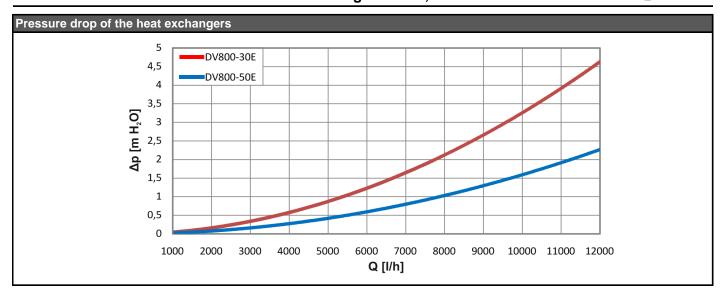


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Calculations

Output curves

$$P=\dot{m}_1\cdot c_1\cdot \Delta T_1=\dot{m}_2\cdot c_2\cdot \Delta T_2\ [W]$$

Mean temperature drop of a heat exchanger ΔTstř:

$$\Delta T_{st\tilde{r}} = \frac{\Delta T_1 - \Delta T_2}{\ln \frac{\Delta T_1}{\Delta T_2}} \; [W]$$

WHERE:

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m_{1,2} [kg/s] ... mass fluid flow rate on the primary (1) and secondary (2) sides

 $\Delta T_{1,2}[K]$... temp. diff. between the incoming and outgoing temp. of the primary (1) and secondary (2) side of a H.E.

c_{1,2} [J/kg·K] ... specific heat capacity