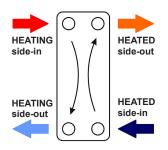


DATA SHEET

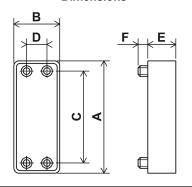
Plate heat exchanger DV800, insulated



Inlet / outlet marking



Dimensions



Main Features	
Application	Suitable esp. for continuous DHW heating or large solar thermal systems due to its design.
Description	Consisting of thin pressed stainless-steel plates, copper soldered, it comes in thermal insulation.
Working fluid Hot water (TV), water, antifreeze fluid for heating and solar thermal systems and heat pumps.	

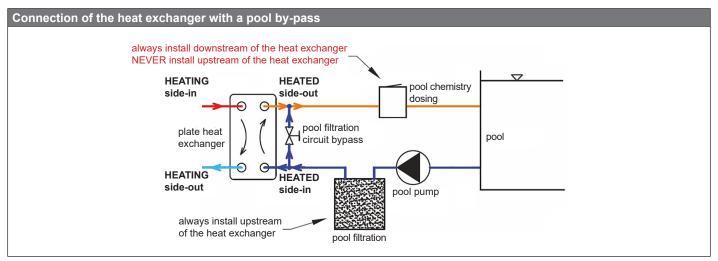
Codes		
10490	DV800-30E	
10491	DV800-50E	

Technical Data					
Type	DV800-30E	DV800-50E			
Number of plate	30	50			
Heat-exchange surface	4.80 m ²	8.00 m ²			
Liquid volume (heating)	4.40	7.70			
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 kg		



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

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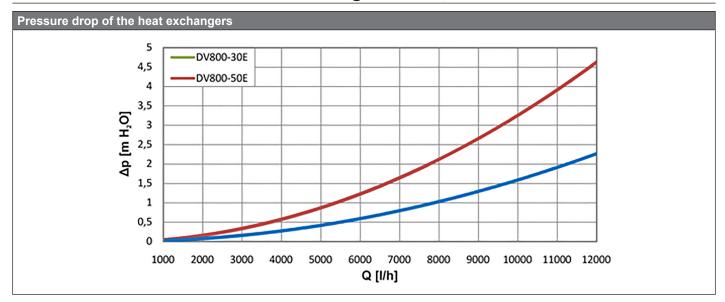
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2/2



DATA SHEET

Plate heat exchanger DV800, insulated



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 ∆Tstř:

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

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.

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