

DATA SHEET

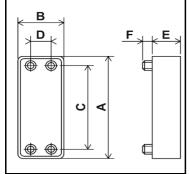
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Plate heat exchanger DV503, insulated



HEATING side-in	0	0	HEATED side-out
HEATING side-out		0	HEATED side-in

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	water, antifreeze fluid for heating and solar thermal systems and heat pumps

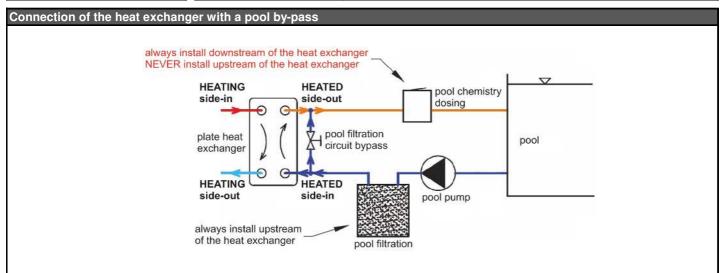
Codes		
11045	DV503-20E	
10495	DV503-40E	
10496	DV503-60E	

Technical data			
Туре	DV503-20E	DV503-40E	DV503-60E
Number of plate	20	40	60
Heat-exchange surface	1,10 m ²	2,20 m ²	3,30 m²
Liquid volume (heating)	1,20 l	2,30 l	3,40 l
Max. working pressure	1,20	2,30	3,40 l
Max. working pressure	12 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 1" M	G 1" M	G 1" M	
Height (dim. A)	533 mm	533 mm	533 mm	
Width (dim. B)	153 mm	153 mm	153 mm	
Thickness (dim. E)	90 mm	130 mm	195 mm	
Pitch (dim. C)	445 mm	445 mm	445 mm	
Pitch (dim. D)	70 mm	70 mm	70 mm	
Socket height (dim. F)	23 mm	23 mm	23 mm	
Weight incl. insulation	11 kg	14 kg	19 kg	



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

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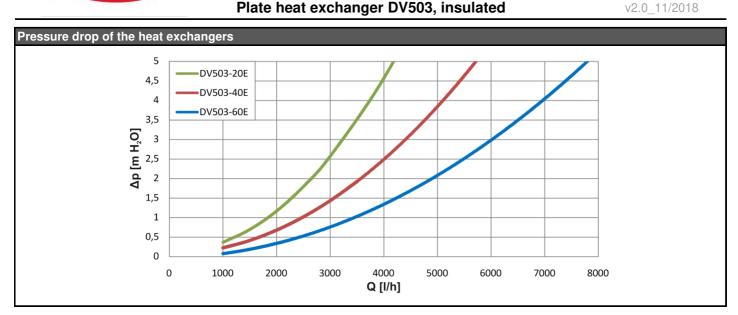
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Calculations

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:

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

WHERE:

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

and secondary (2) sides

... temp. diff. between the incoming and outgoing temp. $\Delta T_{1,2}[K]$

of the primary (1) and secondary (2) side of a H.E.

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