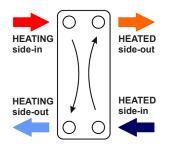


## **DATA SHEET**

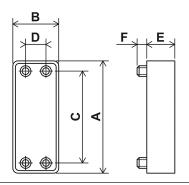
# Plate heat exchanger DV503, insulated



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.

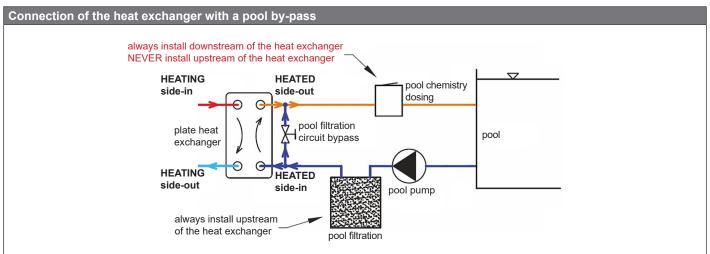
Codes		
11045	DV503-20E	
10495	DV503-30E	
10496	DV503-45E	

Technical Data						
Туре	DV503-20E	DV503-40E	DV503-60E			
Number of plate	20	40	60			
Heat-exchange surface	1.10 m <sup>2</sup>	2.20 m <sup>2</sup>	3.30 m <sup>2</sup>			
Liquid volume (heating)	1.20	2.30 l	3.40 I			
Liquid volume (heated)	1.20	2.30 l	3.40 I			
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.

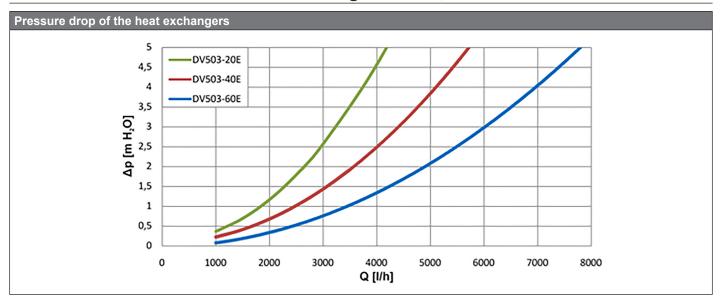
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## **DATA SHEET**

# Plate heat exchanger DV503, 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<sub>1,2</sub> [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.

E-mail: sales@regulus.eu

Web: www.regulus.eu

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