

DATA SHEET

Plate heat exchanger DV503, insulated

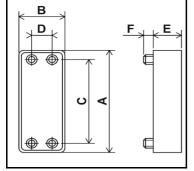
- 1/2 -





| 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 |

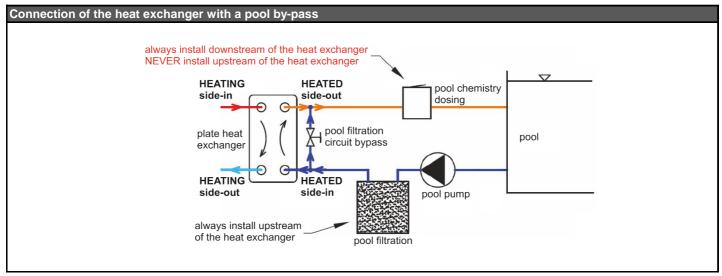
| Codes | |
|-------|-----------|
| 11045 | DV503-20E |
| 10495 | DV503-40E |
| 10496 | DV503-60E |

| Technical data | | | | |
|-------------------------|----------------------|-----------|-----------|--|
| Туре | DV503-20E | DV503-40E | DV503-60E | |
| Number of plate | 20 | 40 | 60 | |
| Heat-exchange surface | 1,10 m² | 2,20 m² | 3,30 m² | |
| Liquid volume (heating) | 1,20 l | 2,30 l | 3,40 l | |
| Max. working pressure | 1,20 l | 2,30 l | 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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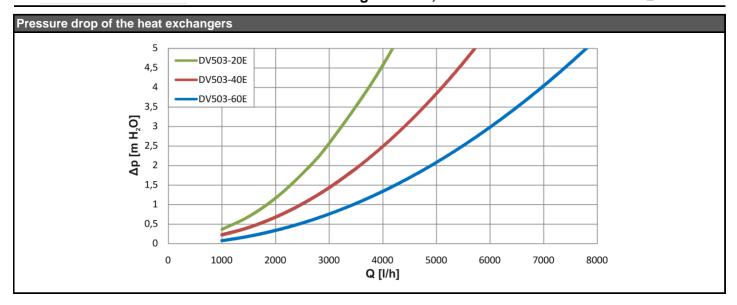


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- 2/2 -

v2.0_11/2018



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:

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

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

and secondary (2) sides

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

 $c_{1,2} \; [J/kg {\cdot} K] \qquad ... \; specific \; heat \; capacity$