

## Wooden Frame Collector WF24VE2

For the perfect roof integration solution, use the WF24VE2 wooden frame collector. Perfectly built, easy to install and highly efficient.

OEM-collectors  
made in Austria



### DESCRIPTION

<b>Design</b>	flat plate collector
<b>Application</b>	in-roof
<b>Orientation</b>	vertical

### DESIGN

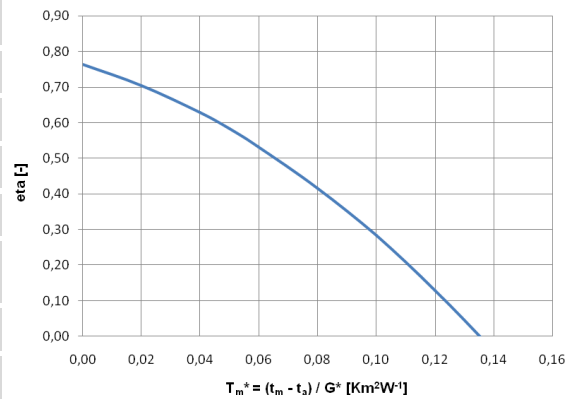
<b>Frame</b>	wood
<b>Glass cover</b>	3,2 mm solar glass (float, tempered), transmission: 91%
<b>Sealing material</b>	EPDM
<b>Absorber</b>	aluminium full plate absorber (double harp) with high selective coating; laser welded; absorption: 95%, emission: 5%
<b>Insulation</b>	50 mm rock wool
<b>Rear plate</b>	4,0 mm HDF-board
<b>Connections</b>	compression fitting 18 / 22 mm, 2 connections on top, heat transfer fluid can flow either left or right

### TECHNICAL DATA

<b>Overall area</b>	2,44 m <sup>2</sup>
<b>Apertur area</b>	2,22 m <sup>2</sup>
<b>Absorber area</b>	2,20 m <sup>2</sup>
<b>Length / Width / Height</b>	2.077 / 1.170 / 107 mm
<b>Weight (empty)</b>	48 kg
<b>Max. operating pressure</b>	10 bar
<b>Max. stagnation temperature</b>	189 °C
<b>Absorber fluid content</b>	1,28 / 1,54 l
<b>Absorber tube diameter</b>	8 mm
<b>Number of absorber tubes</b>	10
<b>Header diameter</b>	18 / 22 mm
<b>Approved collector angle</b>	min. 20°, max. 70°
<b>Packaging</b>	7 pieces standing upright on a euro pallet

## PERFORMANCE DATA (EN 12975)

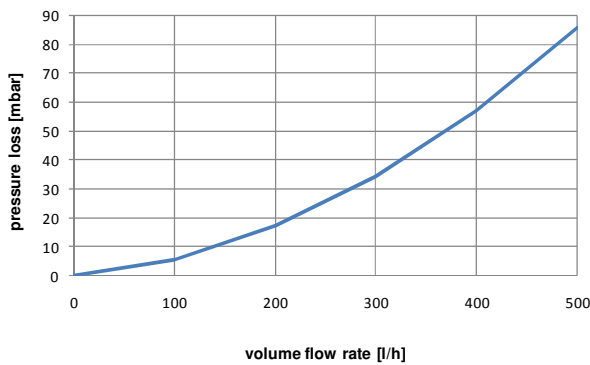
Test report number	Fraunhofer ISE KTB 2009-07
Conversion factor $\eta_0$	0,763
Heat transfer coefficient $a_1$	2,4370 W/m <sup>2</sup> K
Heat transfer coefficient $a_2$	0,0296 W/m <sup>2</sup> K <sup>2</sup>
Efficiency factor $\eta_{0,05}$	0,58
Maximum power output (radiation: 1.000 W/m <sup>2</sup> )	1.693 W
Minimum output	> 525 kWh/m <sup>2</sup> a
Incidence angle modifier IAM 50°	0,92



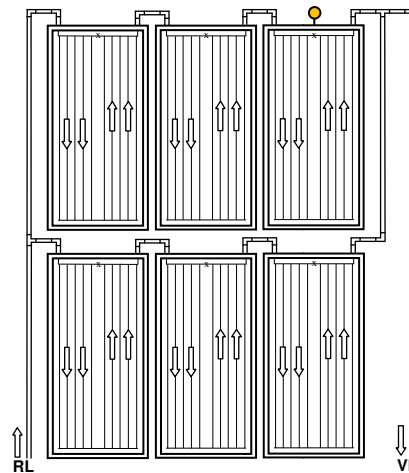
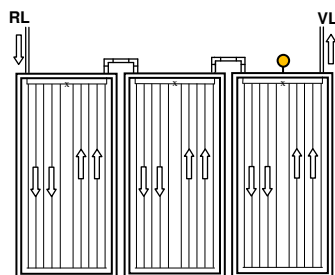
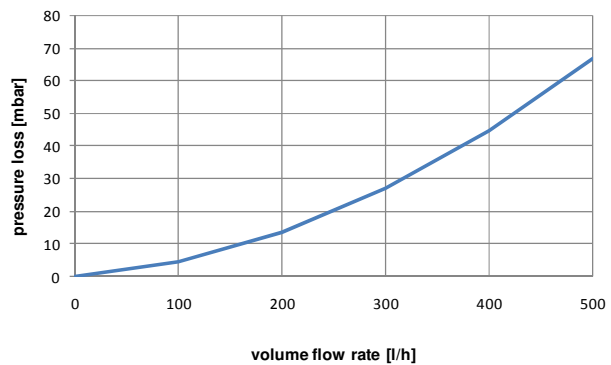
## HYDRAULICS

Pressure loss for water-polypropylen glykol-mixture (60:40) at 50°C

Connections 18 mm



Connections 22 mm



max. 6 collectors in series