



Main features	
Application	solar DHW heating, support space heating or pool heating
Description	flat plate solar collector
Working fluid	water-glycol mixture (max. 1:1)
<b>Code</b>	<b>16 278</b>

Dimensions and weights	
Height x width x thickness	2037 x 1235 x 90 mm
Connection width	1295 mm
Gross area	2,516 m <sup>2</sup>
Aperture area	2,295 m <sup>2</sup>
Absorber area	2,278 m <sup>2</sup>
Empty weight	45 kg

Glazing	
Material	tempered prismatic glass
Thickness	3,2 mm

Absorber	
Material	aluminium, 0,5 mm thick
Surface coating	TiNOx
Design	harp type, laser welded
Header tube material	copper
Header tube dimension	4 x Ø 22 mm x 0,7 mm
Riser tube material	copper
Riser tube dimension	11 x Ø 8 mm x 0,5 mm
Max. working pressure	10 bar
Max. working temperature	110 °C
Stagnation temperature	200 °C
Heat transfer fluid	1,7 l
Recommended flow rate	60 - 120 l/h

Thermal insulation	
Insulation material	mineral wool
Insulation thickness	40 mm

Frame	
Frame material	aluminium alloy
Frame colour	RAL 7016 (grey anthracite)
Back plate	zinc-plated steel, 0,5 mm th.

Collector efficiency parameters related to aperture surface area	
$\eta_{0a}$ [-]	0,716 / 0,785 / 0,791
$a_{1a}$ [W/m <sup>2</sup> K]	4,05 / 4,44 / 4,47
$a_{2a}$ [W/m <sup>2</sup> K <sup>2</sup> ]	0,0062 / 0,0068 / 0,0069

Maximal collector output at 1000 W/m <sup>2</sup> solar irradiance	
$Q_{max}$	1802 W

Incidence angle modifier	
$K_{\theta}$	0,91

**Tested to ISO 9806:2013 and Solar Keymark certified.**