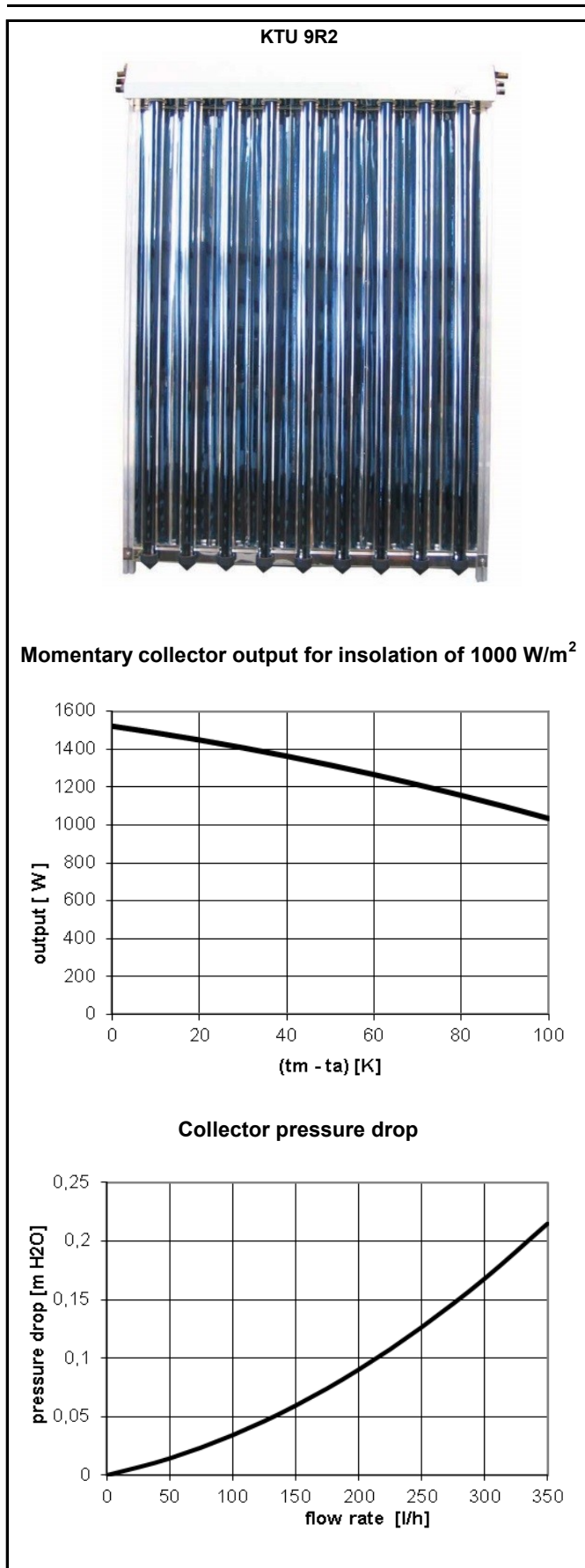


## Solární kolektor KTU 9R2



<b>Code</b>	7 342
<b>Dimensions and weights</b>	
height × width × thickness	1970 x 1350 x 141 mm
installation width	1430 mm
total area	2.66 m <sup>2</sup>
aperture area	2.15 m <sup>2</sup>
absorber area	0.73 m <sup>2</sup>
empty weight	44 kg
<b>Glazing</b>	
material	borosilicate glass
thickness	1.8 mm
<b>Absorber</b>	
material	borosilicate glass
surface finish	AIN/Al-N/Al-N/Al-N/Al-N
design	evacuated tube type, with reflector
connection pipes material	copper
connection pipes dimension	4 x Ø 22 mm × 1 mm
absorber tube material	copper
absorber tube dimension	9 x Ø 8 mm × 0.5 mm
max. working pressure	10 bar
max. working temperature	120 °C
stagnation temperature	255 °C
heat carrier	water solution of propylene glycol (1.37 l)
recommended flow rate	60 – 120 l/h
<b>Thermal insulation</b>	
material	mineral wool
thickness	20 mm
<b>Frame</b>	
frame material	aluminium alloy + steel AISI 304 SS
colour	silver
back plate	steel AISI 304 SS, 0.8 mm thick
<b>Collector efficiency data related to absorber/aperture/total area</b>	
$\eta_{0a}$ [-]	2,085    0,708    0,572
$a_{1a}$ [W/m <sup>2</sup> K]	4,620    1,570    1,260
$a_{2a}$ [W/m <sup>2</sup> K <sup>2</sup> ]	0,019    0,007    0,0057
<b>Max. collector output for insolation of 1000 W/m<sup>2</sup></b>	
$Q_{max}$	1522 W
<b>Incidence Angle Modifier IAM</b>	
$K_{\Theta 50^\circ}$	0.92
<b>Heat Capacity</b>	
C	27.4 J/kg
<b>Tested according to EN ISO 9806</b>	