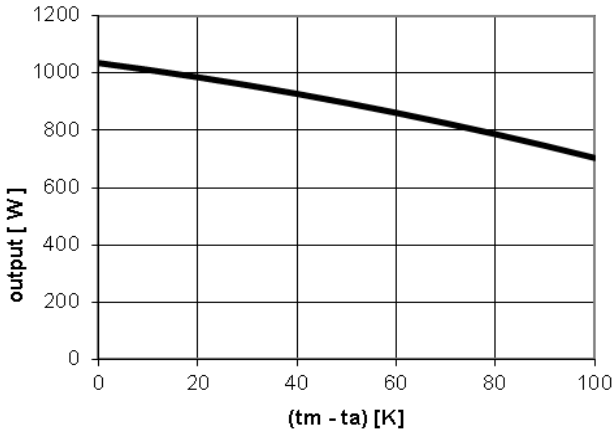
DATA SHEET

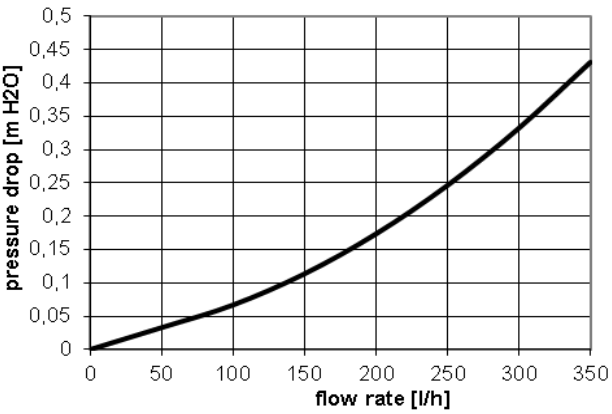
KTU 6R2 Solar Collector

KTU 6R2

Momentary collector output for insolation of 1000 W/m²



Collector pressure drop



Code	7 343

Dimensions and weights	
height × width × thickness	1970 x 920 x 141 mm
installation width	1000 mm
total area	1.81 m^2
aperture area	1.43 m^2
absorber area	0.49 m^2
empty weight	32 kg

Glazing	
material	borosilicate glass
thickness	1.8 mm

Absorber	
material	borosilicate glass
surface finish	AlN/Al-N/Al-N/Al-N/Al-N
design	evacuted 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	6 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 (0.92 l)
recommended flow rate	60 – 120 l/h

Thermal insulation	
material	mineral wool
thickness	20 mm

Frame	
frame material	aluminium alloy + steel AISI 304 SS
colour	silver
back plate	steel AISI 304 SS, 0.8 mm thick

Collector efficiency data related to absorber/aperture/total area			
η_{0a} [-]	2,085	0,708	0,572
a_{1a} [W/m²K]	4,620	1,570	1,260
a_{2a} [W/m²K²]	0,019	0,007	0,0057

Max. collector output for insolation of 1000 W/m²	
Q_{max}	1033 W

Incidence Angle Modifier IAM	
$K_{\Theta\ 50°}$	0.92

Heat Capacity	
C	27.4 J/kg

Tested according to EN ISO 9806

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