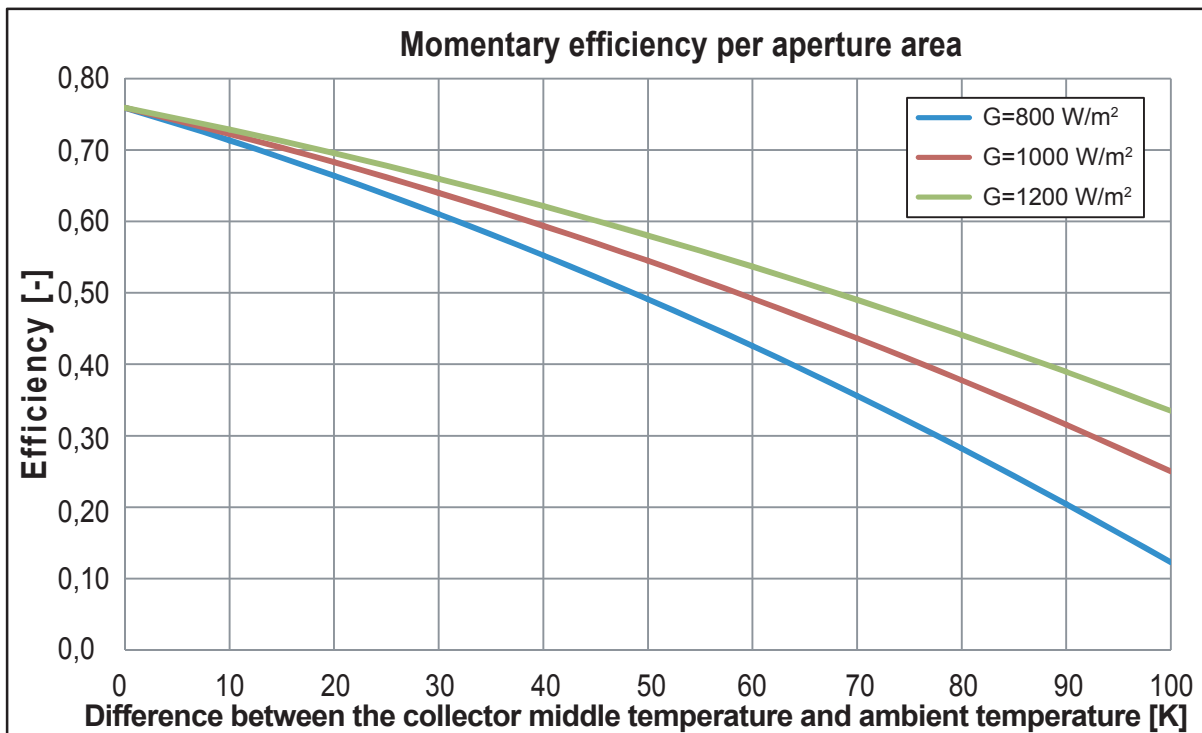




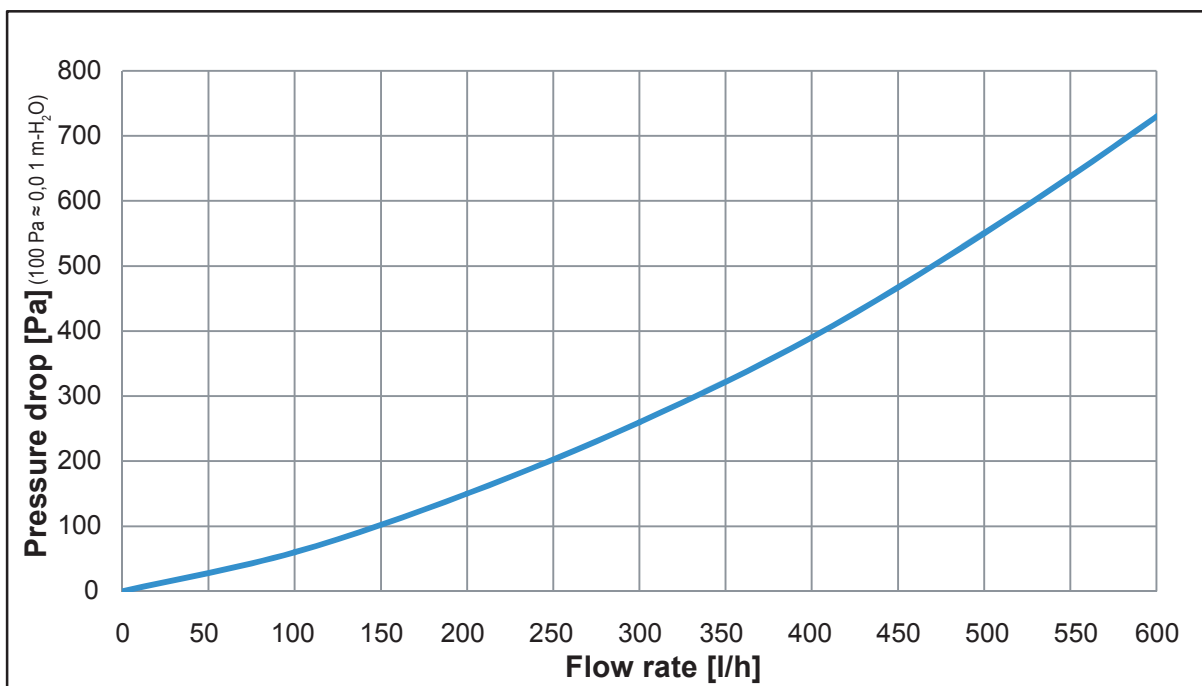
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KPG1-ALC – TECHNICAL DATA SHEET v1.3

Dimensions and Weight	
height × width × thickness	2151 × 1170 × 84 mm
pitch of 22 mm Ø tubes	2010 mm
total area	2.517 m ²
aperture area	2.392 m ²
absorber area	2.309 m ²
empty weight	47 kg
Glass	
material	tempered low-iron glass
thickness	3.2 mm
permeability	90.8 ± 2 %
Absorber	
material	aluminum, 0.5 mm thick
surface finish	TiNOx
design	harp type, laser welded
connection pipes material	copper
connection pipes dimension	4 × Ø 22 mm × 0.8 mm
absorber tube material	copper
absorber tube dimension	12 × Ø 8 mm × 0.5 mm
solar absorptance	94 ± 2 %
emmisivity	5 ± 2 %
max. working pressure	10 bar
max. working temperature	120 °C
stagnation temperature	234 °C
heat carrier	solution of monopropylene glycol in water, 1:1, 1.7l
recommended flow rate	60 – 120 l/h
Thermal Insulation	
material	mineral wool
insulation thickness	40 mm
Frame	
material	aluminum alloy
color	silver
back plate	aluminum alloy, 0.5 mm thick
Momentary efficiency per aperture / absorber area	
η_{0a}	0.759 / 0.794
a_{1a}	3.48 / 3.639 W/m ² K
a_{2a}	0.0161 / 0.0168 W/m ² K



Max. collector power output for G=1000 W/m² is 1839 W.



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