



REGULUS spol. s r.o. tel.: +420 241 764 506
 Do Koutu 1897/3 +420 241 762 726
 143 00 Prague 4 fax: +420 241 763 976
 CZECH REPUBLIC

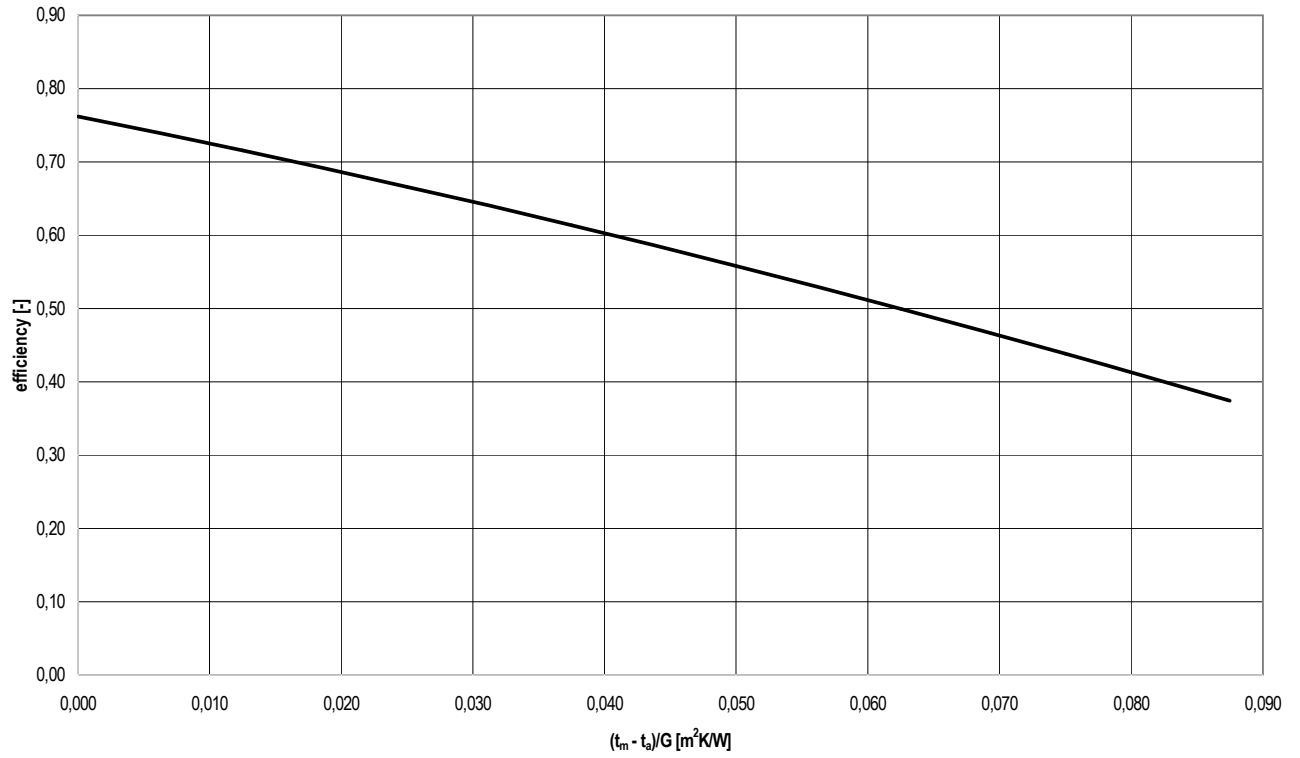
www.regulus.cz

e-mail: obchod@regulus.cz

KPS10ALP – TECHNICAL DATA SHEET

Dimensions and weight	
dimension LxWxT	2040 x 1141 x 80 mm
connecting width	1184 mm
gross area	2.33 m ²
aperture area	2.13 m ²
absorber area	2.11 m ²
weight empty	44 kg
Glass	
material	tightened prismatic low-iron glass
thickness	4mm
transmission	91 %
Absorber	
material	copper
surface treatment	Sunselect
type	winding pipes, ultrasonically welded
header tube material	copper
connecting dimension	2 x Ø 12 mm x 1.5 mm
riser tube material	copper
riser tube dimension	1 x Ø 12 mm x 1 mm
solar absorptance	95 %
hemispherical emittance	5 %
operating pressure	6 bar
max. operating temperature	120°C
stagnation temperature	197°C
heat-transfer liquid	water / monopropyleneglycol mixture 1:1, 1.6 lt.
recomended flow range	60 – 120 l/h
Thermal insulation	
insulation material	mineral wool
insulation thickness	40 mm
Casing	
frame material	aluminium alloy
frame colour	aluminium
back plate	aluminium alloy, 1 mm thick
Collector efficiency to the aperture / absorber area	
η_{0a}	0,762 / 0,769
a_{1a}	3,596 / 3,630 W/m ² K
a_{2a}	0,012 / 0,012 W/m ² K

Collector efficiency



Collector power output in zero point for $G=1000 \text{ W/m}^2$ is 1623 W.

Collector pressure drop [Pa]

