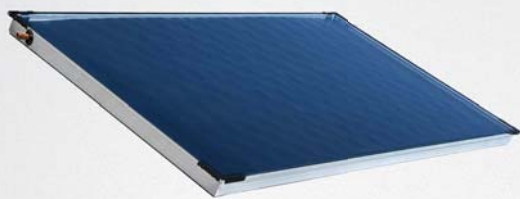


KPG1H SOLAR COLLECTOR



Flat plate collector of 1816 W output (at 1000 W/m² irradiance), designed for on-roof landscape installation. A double-harp absorber with highly selective TiNOx surface is laser welded to the copper pipes. The insulation consists of 40 mm mineral wool. Connections are located on both sides on the top.

Code: 11427

Dimensions and weight

height x width x thickness	1170x2150x84 mm
total area	2.517 m ²
aperture area	2.392 m ²
absorber area	2.309 m ²
empty weight	47 kg

Glazing

material	tempered low-iron glass
thickness	3.2 mm

Absorber

material	Al, 0.5mm thick
surface finish	TiNOx
design type	double harp type, laser welded
material and size of connection pipes	copper 2 x Ø 22 mm x 0.8 mm
material and size of absorber tubes	copper 12 x Ø 8 mm x 0.5 mm
max. working pressure	10 bar
max. working temperature	120°C
stagnation temperature	234°C
heat transfer fluid	water solution of monopropylene glycol 1:1, 1.7l
recommended flow rate	60 - 120 l/h

Thermal insulation

insulation material	mineral wool
insulation thickness	40 mm

Frame

frame material	aluminum alloy
frame color	silver
rear sheet	aluminum alloy, 0.5 mm thick

Collector efficiency parameters related to aperture/absorber surface 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 ²

Mount and connection kits (landscape mount)

	Code
Connection kit	14618
Kit for 1 collector	[for 4 roof anchors or 2 supports + 1 strut] 10700
Kit for 2 collectors	[for 6 roof anchors or 3 supports + 1 strut] 14517
Mount and interconnection kit for 1 collector	[for 4 roof anchors or 2 supports + 1 strut] 14518

The Connection kit contains an inlet elbow (Cu22 x 3/4" F), outlet pipe cross (Cu22 x 3/4" F + 3/8" F for an air vent valve and 1/2" F for a temperature sensor sheath), sheath with a temperature sensor.



The mount and connection kits consist of aluminum mounting rails, retaining hooks for bottom mounting rails, retaining side clamps, bolts and nuts, straight couplers (2 and more collectors) and pipe insulation.