

KPG1 SOLAR COLLECTOR



Flat plate solar collector designed for either portrait or landscape on-roof installation. Harp absorber with highly selective TiNOx surface is laser welded to copper tubing. The insulation consists of 10 mm mineral wool. Connection points are located laterally on the top and bottom.

Code: 10336

Solar Keymark Certified 

Dimensions and weight

height x width x thickness	2151x1170x84 mm
installation width	2010 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	harp type, laser welded
material and size of connection pipes	copper 4 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 (portrait mount)

	Code
Connection kit	7710
Kit for 1 collector	[for 4 roof anchors or 2 supports + 1 strut] 10538
Kit for 2 collectors	[for 6 roof anchors or 3 supports + 1 strut] 10539
Kit for 3 collectors	[for 8 roof anchors or 4 supports + 1 strut] 10540
Kit for 4 collectors	[for 10 roof anchors or 5 supports + 1 strut] 10541
Kit for 5 collectors	[for 12 roof anchors or 6 supports + 1 strut] 14067
Mount and interconnection kit for 1 collector	[for 4 roof anchors or 2 supports + 1 strut] 11986

Mount and connection kits (landscape mount)

	Code
Connection kit	14134
Kit for 1 collector	[for 4 roof anchors or 2 supports + 1 strut] 10700

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 and 2 straight adapters (Cu22 x 3/4" F) with plug and gasket.



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.