

## KPR1+ ANT SOLAR COLLECTOR



Flat plate collector designed for on-roof portrait installation. A harp absorber with highly selective TiNOx surface is laser welded to the copper pipes. The insulation consists of 40mm mineral wool. Connections are located on both sides on the top and bottom.

Code: 14 837

Solar Keymark Certified 

### Dimensions and weight

height x width x thickness	2030 x 1027 x 92 mm
installation width	1077 mm
total area	2.08 m <sup>2</sup>
aperture area	1.91 m <sup>2</sup>
absorber area	1.91 m <sup>2</sup>
empty weight	42 kg

### Glazing

material	tempered prismatic glass
thickness	4 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 0.7 mm
material and size of absorber tubes	copper 9 x Ø 8 mm x 0.5 mm
max. working pressure	10 bar
max. working temperature	120°C
stagnation temperature	193°C
heat transfer fluid	water solution of propylene glycol, 1.37 l
recommended flow rate	60 - 120 l/h

### Thermal insulation

insulation material	mineral wool
insulation thickness	40 mm

### Frame

frame material	aluminum alloy
frame color	RAL 7039
rear sheet	aluminum alloy, 0.5 mm thick

### Collector efficiency parameters related to aperture area

$\eta_{0a}$	0.745
$a_{1a}$	3.556 W/m <sup>2</sup> K
$a_{2a}$	0.017 W/m <sup>2</sup> K <sup>2</sup>

### Mount and connection kits (portrait mount)

		Code
Connection kit		7 710
Kit for 1 collector	[for 4 roof anchors or 2 supports + 1 strut]	12 178
Kit for 2 collectors	[for 6 roof anchors or 3 supports + 1 strut]	12 179
Kit for 3 collectors	[for 8 roof anchors or 4 supports + 1 strut]	12 180
Kit for 4 collectors	[for 10 roof anchors or 5 supports + 1 strut]	12 181
Mount and interconnection kit for 1 collector	[for 4 roof anchors or 2 supports + 1 strut]	12 183

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 couplers (Cu22x3/4" F) with a plug and gaskets.



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.