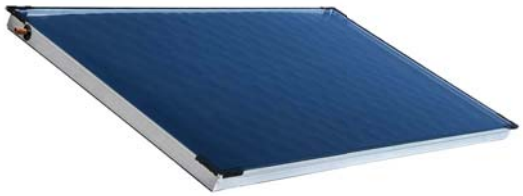
# KPG1H SOLAR COLLECTOR



Flat plate collector of 1866 W output (at 1000 W/m² irradiance), designed for on-roof landscape installation. A harp absrber 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 | 1170 x 2150 x 85 mm |
| total area | 2.52 m² |
| aperture area | 2.31 m² |
| empty weight | 38 kg |
| **GLAZING** | |
| material | tempered low-iron glass |
| thickness | 3.2 mm |
| **ABSORBER** | |
| material | Al, 0.4 mm thick |
| surface finish | TiNOx |
| design type | harp type, laser welded |
| material and size of connection pipes | copper 2 x Ø 22 mm × 0.8 mm |
| material and size of absorber tubes | copper 12 x Ø 8 mm × 0.4 mm |
| max. working pressure | 10 bar |
| max. working temperature | 120 °C |
| stagnation temperature | 200 °C |
| heat transfer fluid | water solution of monopropylene glycol 1:1, 1.7 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 | silver |
| rear sheet | aluminum alloy, 0.5 mm thick |
| **COLLECTOR EFFICIENCY PARAMETERS RELATED TO APERTURE/TOTAL SURFACE AREA** | |
| $\eta_{0a}$ | 0.812/0.744 |
| $a_{1a}$ | 4.054/3.716 W/m²K |
| $a_{2a}$ | 0.014/0.013 W/m²K² |

| 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 fittings (2 and more collectors) and pipe insulation.