KTU 10 SOLAR COLLECTOR



Evacuated tube collector of 727 W output (at 1000 W/m² irradiance), designed for on-roof portrait installation. A tube consists of 2 coaxial glass tubes with vacuum between them. An aluminum lamella fitting closely to the glass tube collects heat from the whole inner surface of the evacuated tube, giving it away into solar fluid inside the copper pipe. These copper pipes join the collector header, insulated with 30 mm of mineral wool.

Code: 7126

Dimensions and weight 1970 x 920 x 141mm height x width x thickness installation width 1000 mm 1.81 m² total area aperture area 1.01 m² 0.81 m² absorber area empty weight 41 kg Glazing material borosilicate glass - 10 evacuated tubes thickness 1.8 mm Absorber material borosilicate glass AIN/AI-N/AI-N/AI-N/AI-N surface finish evacuated tube design type material and size of connection pipes copper $4 \times \emptyset 22 \text{ mm} \times 1 \text{ mm}$ material and size of absorber tubes copper 10 x Ø 8 mm × 0.5 mm max. working pressure 10 bar max. working temperature 120°C stagnation temperature 309.9°C heat transfer fluid water solution of monopropylene glycol 1:1, 1.71 60 - 120 l/h recommended flow rate Thermal insulation absorber vacuum header mineral wool, 30 mm Frame aluminum alloy and steel AISI 304 SS frame material silver frame color case material steel AISI 304 SS, 0.8 mm thick Collector efficiency parameters related to aperture/absorber surface area 0.733/0.894 ŋ_{oa} 2.237/2.73 W/m²K a_{1a} 0.0025/0.0031 W/m²K² a_{2a}

Mount and connection kits (portrait mount)		Code
Connection kit		7710
Kit for 1 collector	[for 4 roof anchors or 2 supports + 1 strut]	7415
Kit for 2 collectors	[for 6 roof anchors or 3 supports + 1 strut]	7241
Kit for 3 collectors	[for 8 roof anchors or 4 supports + 1 strut]	7242
Kit for 4 collectors	[for 10 roof anchors or 5 supports + 1 strut]	7243
Extension kit for mounting and connecting 1 collector	[for 4 roof anchors or 2 supports + 1 strut]	7244

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 (Cu22x $3/4^{"}$ F) with a plug and gaskets.



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

Solar Thermal System

Energy-saving solutions

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