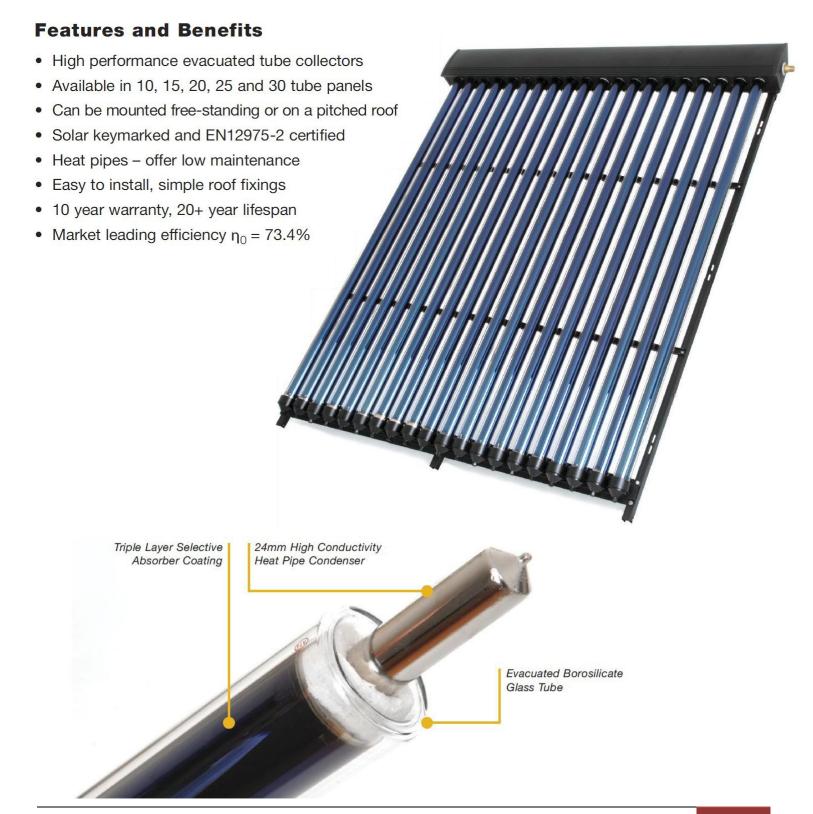
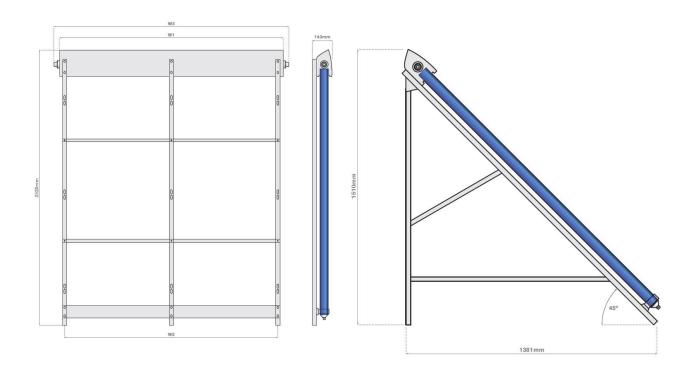


## **Solar Tube Company Evacuated Tube Collector Specification**







## **Evacuated Tube Collectors - Sizing and Output**

Tubes	W1 (mm)	W2 (mm)	W3 (mm)	Wet Weight (kg)	Aperture Area (m2)	Annual Output* (kWh)
10	860	780	950	40.0	0.93	792
15	1250	1170	1340	58.0	1.40	1188
20	1640	1560	1730	62.0	1.87	1590
25	2030	1950	2120	96.0	2.33	1980
30	2420	2340	2510	114.1	2.79	2376

## **Technical Specification**

Zero Heat Loss Efficiency,  $\eta_0$  73.4% Primary Heat Loss Coefficient,  $a_1$  1.529 W/m²K Primary Heat Loss Coefficient,  $a_2$  0.0166 W/m²K² Incident Angle Modifier,  $K_{T50^\circ}$  1.37

 $\begin{array}{ll} \text{Incident Angle Modifier, K}_{\text{T50}^{\circ}} & 1.37 \\ \text{Instantaneous Efficiency}^{\star\star}, \, \eta_{0.05a} & 62.4\% \end{array}$ 

Specific Output\* 850 kWh / m² / year

Stagnation Temperature 200.3°C

Maximum Operating Pressure 10 bar

Collector Frame and Manifold Aluminium

Selective Absorber Coating CerMet

Absorber Contact Sheet Aluminium

Evacuated Tube Borosilicate Glass 1800mm x 58mm (OD) x 47mm (ID)

Tube Spacing 78mm

Testing & Certification EN12975-2 & Solar Keymark Registration No. 011-7S722 R

<sup>\*</sup>Based on a collector located in Southampton, UK in an unshaded position facing South and tilted at 45°.

<sup>\*\*</sup>Based on 800 W/m2 irradiation and 40°C temperature difference between ambient air and collector.