

Descriptive Specification

- High zero-loss collector efficiency figure of 85% based on the absorber.
- significantly lower heat loss coefficient of 1.529w/m²K.
- Easy to install frame

| System Size | 30 Tube Collector | Materials | 30 Tube Collector |
|--------------------------------|-------------------------|--|-----------------------------|
| Gross Area | 4.901m ² | Absorber | Aluminium |
| Aperature area | 2.791m ² | Coating | Aluminium Nitrate |
| Absorber Area | 2.411m ² | Absorbance | > 94% |
| Length of Tube | 1.8m | Emissivity | <7% |
| Dist. Between Tubes/Panels | 0.078m | Mounting Frame | Aluminium Nitrate |
| Weight | 106kg | Glass | Borosiliate Glass |
| Max Operating Pressure | 6bar | Mounting Inclination | 15°-75° |
| Recommended Operating Pressure | 2-3bar | Inlet Outlet Dimensions | 3 ¼ bracket male |
| Recommended Flow Rate | 0.5l/min/m ² | Stagnation Temperature | 200.3°C |
| Fluid Volume in Collector | 2.3l | Insulation Material | Mineral Wool + Polyurethane |
| Rated Heat Output | 1.81kW | Heat Transfer Fluid | Glycol Mix |
| | | Efficiency Constants for G=8000W/m ² $\eta_0 = 0.734$ $a_1 = 1.529$ $a_2 = 0.0166$ (W/m ² K) | |

| Dimensions | | | |
|------------|--------|-------|----------|
| | Length | Width | Diameter |
| 30 Tube | 2.01m | 2.42m | 0.189m |

