

# Ideal Solar

## Solar evacuated tube collectors

### 15, 20 & 30 tube

The collector manifold is manufactured from copper and conducts heat transferred by heat pipe technology to the heat transfer fluid, which is pumped through the manifold and to the thermal store.

This process is repeated whenever the collector temperature is more than eight degrees hotter than the thermal store until the desired temperature is achieved.

The collector manifold is designed to manage high pressure and large water consumption systems, making the Ideal tube a good all round collector.

- 15, 20 and 30 tube options
- Excellent efficiency
- Quick and easy to install
- Toughened glass for added peace of mind
- Five year warranty\*

\*Terms and conditions apply



15 Tube (part number 206525)  
20 Tube (part number 206526)  
30 Tube (x2 15 Tubes) (part number 206527)



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### 15, 20 & 30 tube

#### Technical Specification

Model	Evacuated Tube Collectors				
	TS 15	TS 20	TS 30 (x2 TS 15)		
Size	Number of tubes	15	20	30	
	Gross size (mm)	(W-L)	1610 - 1980 (W-L)	(W-L)	
	Aperture area (m <sup>2</sup> )	1.397	1.876	1.397	
	Absorber area (m <sup>2</sup> )	1.199	1.603	1.199	
	Flat roof installation size L x W x H (mm)	1420 x 1235 x 1420 mm	1420 x 1610 x 1420 mm	1420 x 1235 x 1420 mm	
	Weight empty (kg)	56	64.4	56	
Performance and Installation	Fluid volume (l)	1	1.37	1	
	Heat transfer medium	Pure water/glycol	Pure water/glycol	Pure water/glycol	
	Working pressure	6 bar	6 bar	6 bar	
	Max. testing pressure	12 bar	12 bar	12 bar	
	Max. working temperature	280°C	280°C	280°C	
	Efficiency n°	0.79	0.795	0.79	
	Inlet/outlet connection (mm)	22	22	22	
	Aperture area	1.397m <sup>2</sup>	1.876m <sup>2</sup>	1.397m <sup>2</sup>	
	Conversion factor N <sub>0</sub>	0.679	0.679	0.679	
	Heat loss coefficient a <sub>1</sub>	1.696W/m <sup>2</sup> K	1.696W/m <sup>2</sup> K	1.696W/m <sup>2</sup> K	
	Manifold packing (mm)	1/2000/200/160	1/2000/200/160	1/2000/200/160	
	Tubes packing (mm)	1/1940/350/270	1/1940/350/180	1/1940/350/270	
	Certificate	EN 1 2975-1.2 SOLAR KEYMARK			

#### SAP data

##### 15 Tube

Aperture area - 1.397m<sup>2</sup>  
 Conversion factor N<sub>0</sub> 0.679  
 Heat loss coefficient a<sub>1</sub> 1.696W/m<sup>2</sup>K

##### 20 Tube

Aperture area - 1.876m<sup>2</sup>  
 Conversion factor N<sub>0</sub> 0.679  
 Heat loss coefficient a<sub>1</sub> 1.696W/m<sup>2</sup>K

##### 30 Tube (x2 15 Tubes)

Aperture area - 1.397m<sup>2</sup>  
 Conversion factor N<sub>0</sub> 0.679  
 Heat loss coefficient a<sub>1</sub> 1.696W/m<sup>2</sup>K