

SOLAR RAY HE58 Series

20 tube high efficiency solar hot water panel



Product Overview

The Solar Ray HE20 solar panel heat collector is one of the best solar panels on the market today, suitable for heating domestic hot water and swimming pools.

One unit is adequate for an average household but more panels can be added for larger projects. A single panel is sufficient for a 175 litre cylinder, although you can fit 2 or more for high water usage, heating swimming pools or under floor heating.

Solar Ray vacuum tubes consist of a double wall glass tube (made from 25mm borosilicate glass) with a space in the centre which contains the heat pipe and aluminium absorber fins.

The sun's radiation is absorbed by the selective coating (9 layers) on the inner glass surface and the heat is transferred by heat pipe to your system. Solar Ray heat pipes have a vacuum level of 4×10^{-6} Pa, which allows the heat transfer compound to vaporise at low temperatures of 25-30°C.

Every heat pipe used by Solar Ray is individually tested for heat transfer performance and welding quality before being accepted for use in the manufacturer's factory accredited to ISO 9001 standard. The HE58 20 tube is tested to EN 12975.

Specification

- ▶ Panel size for the 58mm 20 tube array: 170mm x 195mm
- ▶ 24 and 30 arrays also available
- ▶ Degree of Vacuum: $\geq 4 \times 10^{-6}$ Pa
- ▶ Coating: Aluminium Nitride
- ▶ Absorption coefficient: ≥ 0.93
- ▶ Emissivity: ≤ 0.08
- ▶ Starting temperature: ≤ 25 C
- ▶ Max. temperature: 250 C
- ▶ Service life: ≥ 15 years
- ▶ Wind resistance: 30m/s (force 11)
- ▶ Glass material: 25mm high quality borosilicate glass
- ▶ Absorber plate: aluminium
- ▶ Size of single tube: 58mm x 1800mm
- ▶ Weight of single tube: 2.0kg
- ▶ Size of condenser end: 14mm x 50mm
- ▶ Hail proof: 25mm diameter hailstones
- ▶ Manufacturer's 10 year warranty



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- ▶ Highly durable
- ▶ Easy to install

