

SolarInvert Energy Solutions

How big should the solar temperature container be





Overview

How many litres should a dedicated solar collector be?

According to the energy saving trust (CE131, Energy Saving Trust, 2006) the dedicated solar volume should be the greater of the expected domestic daily hot water use, or 35 litres per meter squared of net collector area. Now we know our dedicated solar volume we can work out the size of the collector required.

How much space do you need for a solar thermal system?

Standard value A family of four typically needs a collector area of 10 to 12 square metres (m²) and a cylinder with a volume of 60 to 80 litres per m² for central heating backup. Receive a free, individual, no-obligation consultation on our heat pumps from our qualified trade partners! Is a solar thermal system suitable for everyone?

.

Which container should be used for solar thermal applications?

Considering solar thermal applications around 100°C, the most appropriate container that could be used is the shell-and-tube. As shell-and-tube is commonly used in industries, many modifications are possible to suit the requirements of solar thermal systems.

How many litres of hot water does a solar system use?

Now we have a more realistic 105 litres of hot water in the winter and 105 litres of solar volume. According to the energy saving trust (CE131, Energy Saving Trust, 2006) the dedicated solar volume should be the greater of the expected domestic daily hot water use, or 35 litres per meter squared of net collector area.

What size solar collector do I Need?



Now we know our dedicated solar volume we can work out the size of the collector required. Taking the 105 litres from the example we would need 3m² (105/35), this requirement could be met by 2 flat plate collectors or 30 evacuated tubes giving an equivalent net area.

What is the 'net' area of a solar thermal collector?

The 'net' area is the amount of collector exposed to the sun after the area of the frame has been deducted. So there we have it – the size of the solar thermal collector depends on the size of the dedicated solar volume of the cylinder.



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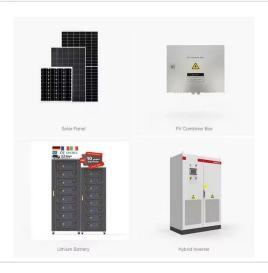
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Solar luminosity is L = 3.8×1033 erg s-1. (3.5) When divided by 4pd2, this gives the Solar flux above the Earth''s atmosphere, sometimes called the solar constant: $f = 1.4 \times 106$ erg s-1 ...

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