

Five reasons to install a VELUX Solar Hot Water System.

- 1 Your VELUX Solar Hot Water System can help you play your part in reducing global carbon emissions as it provides up to 70% of your home's hot water requirements.
- 2 Going green with renewable energy does not mean you have to forfeit aesthetics. VELUX solar collectors integrate harmoniously with their surroundings to ensure a visually attractive roof design.
- 3 The VELUX Solar Hot Water System has been fully approved and has strong ties with independent certification schemes and specialist government accredited installers to give you complete peace of mind.
- 4 A VELUX system is supplied to your installer as a complete solar hot water package. This ensures total compatibility between components, thus providing optimum performance.
- 5 You can expect the same premium quality from a VELUX solar range as you have always known from our windows.

Find out more at www.carbon-neutralhome.co.uk
or www.carbon-neutralhome.ie.



VELUX®



VELUX®



Solar hot water systems.
From a name you can trust.



VELUX – helping you harness the power of the sun.

At VELUX we have been developing solar products for over 15 years, applying the same levels of quality, design and innovation as we have done for generations to our range of windows.

So why choose a VELUX Solar Hot Water System? The most obvious reason is efficiency. By harnessing the sun's natural energy, you could typically reduce your household's CO₂ emissions by more than 500kg each year. That extra efficiency translates directly into savings – a VELUX Solar Hot Water System could provide up to 70% of your home's hot water requirements, cutting your energy bills dramatically.

So, it's better for the planet and better for your pocket too. And the good news starts right away because government incentives are in place which mean that if your solar system is purchased and installed by a certified installer, then you only pay 5% VAT in the UK, which could mean quite a considerable saving.

In Northern Ireland it's possible to claim back the entire VAT bill. You can find out more about this and a range of renewable energy grants available in Northern Ireland by visiting www.actionrenewables.org



Improved energy efficiency without sacrificing style.

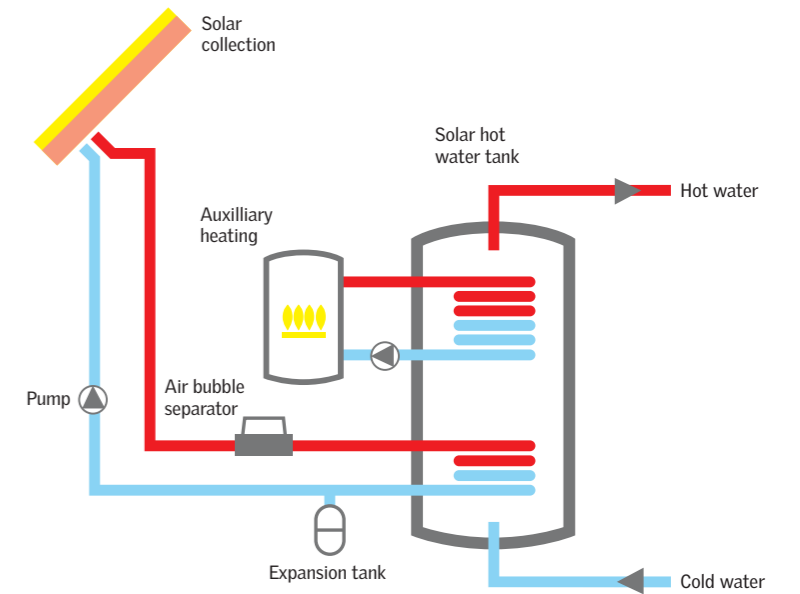
There seems to be a general opinion that anything as energy efficient and cost-effective as a solar hot water system must have a drawback. It's certainly true that some solar energy collectors look awkward and even ugly when fitted. But nothing could be further from the truth with a VELUX system. Using the unique VELUX flashing kit, the VELUX solar collector fits discreetly on your roof and blends beautifully with both traditional and modern architecture. Not only are VELUX Solar Hot Water Systems good for the environment, they look good too!



VELUX solar components



System Diagram



The VELUX Solar Hot Water System uses simple but effective technology. The solar collectors absorb the sun's rays and heat the fluid which runs through the system to the solar storage tank. This is even the case when the weather is not at its best. When there is insufficient solar irradiation to provide all of your hot water, the control system will switch on your back up auxiliary heating.

VELUX Solar – the complete package.

VELUX design and produce all the components necessary for the installation of your system – solar collector(s), underfelt sealing collars, appropriate flashings, solar tank, control unit/pump station, pipes, dual coil hot water cylinder, pre-insulated pipes and safety mixer valve to ensure a constant supply of safe hot water to your taps. VELUX solar tanks are also easy to connect to existing heating systems.

For further peace of mind it's worth knowing that the VELUX system meets all current UK and Ireland standards and the collectors are certified to EN12975 for durability. The collectors also have the Solar Keymark which is the quality mark for European solar thermal products. All plumbing elements are WRAS certified and electrical components are CE marked.

Collector sizes

118		CLI S06 4000	
140	CLI M08 4000	CLI S08 4000	
180			CLI U12 4000
cm	78	114	134
	Size (cm) width		

VELUX solar collectors can also be installed side by side with VELUX roof windows.





VELUX Solar Hot Water Systems are available from all good plumbing and builders merchants. However, we recommend you speak to your local solar installer or plumber, who will advise you on exactly the right VELUX system for you and the best steps to installation.

In short, VELUX can offer a complete solution for the installation of your system – saving you time and money. You also get complete peace of mind with our exceptional Manufacturer's Guarantee (for more details see our Frequently Asked Questions on page 6).

To find out how you can play your part in conserving our environment visit www.carbon-neutralhome.co.uk or www.carbon-neutralhome.ie

Frequently asked questions.

Want to know more?

This table provides an example of the sizes of collector available and how many collectors per person in each household are required.

Typical solar hot water system	2 bed house 2/3 person 180 litre tank	3 bed house 3/4 person 280 litre tank	4 bed house 4/5 person 280 litre tank	5 bed house 5/6 person 375 litre tank
U12 option 2.50m ² per collector	1 x U12 (2.50m ²)	2 x U12 (5.00m ²)	2 x U12 (5.00m ²)	3 x U12 (7.50m ²)
S06 option 1.35m ² per collector	2 x S06 (2.70m ²)	3 x S06 (4.05m ²)	4 x S06 (5.40m ²)	5 x S06 (6.75m ²)
S08 option 1.60m ² per collector	2 x S08 (3.20m ²)	3 x S08 (4.80m ²)	4 x S08 (6.40m ²)	4 x S08 (6.40m ²)
M08 option 1.09m ² per collector	3 x M08 (3.27m ²)	4 x M08 (4.36m ²)	5 x M08 (5.45m ²)	6 x M08 (6.54m ²)

The range of VELUX collectors allow you to choose a solution that suits your requirements giving you flexibility in choice.

Available in four different sizes and using standard VELUX flashings, it can even be combined with new or existing VELUX roof windows to ensure a visually attractive roof design.

For information on which option is the correct one for you, please contact a specialist installer who will be able to give you a customised quote. For more information on where to find an accredited solar installer please visit www.carbon-neutralhome.co.uk or www.carbon-neutralhome.ie

What is renewable energy?

Renewable energy effectively uses natural resources such as the sun, wind, rain, tides and geothermal heat, which are naturally replenished.

Why choose solar power?

As sunlight is constant solar power is renewable – and the technology used for solar hot water heating is simple, effective and the most tried and tested, which makes it easy to adopt on a domestic scale, and it's affordable!

How does solar thermal work?

There are two main components in a solar system. First you need to absorb the sun's energy, this is done in a solar collector on the roof. Secondly you need to store the energy and this occurs when transferring it into stored hot water for use later.

What if there is no sun or it's cloudy?

Solar collectors use irradiation of the sun so even on a cloudy day they can absorb significant energy. When the sun shines a greater amount of energy can be absorbed.

Do I still need a boiler?

Yes, you will still require a back up heat source, such as a boiler or an immersion heater as solar energy is not consistent all year round. (see graph to the left)

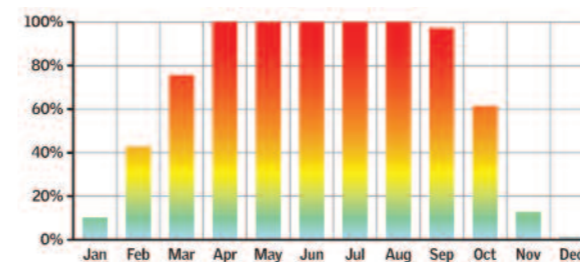
Are there any grants available?

Yes, as long as your solar system is installed by an approved installer, in the UK you can apply to the Low Carbon Buildings Programme for a grant, whatever the size of your system. In the Republic of Ireland there are also grants available through the Greener Homes Scheme, which provides financial support for renewable technology.

What kind of guarantee is there on a VELUX Solar Hot Water System?

The VELUX Solar Hot Water System, including the tank and collectors, are guaranteed for 10 years and all accessories and components are guaranteed for 3 years. In addition to this VELUX is also an accredited member of REAL assurance which is a consumer protection scheme that has been set up to ensure a high quality experience for the home owner. (www.realassurance.org.uk)

Annual solar coverage



During the summer months you can expect almost all of your hot water to be provided for free. But in the winter this reduces due to the reduction of available solar irradiation. However, the combination of solar energy and your boiler will provide you with a constant supply of hot water all year round.

For more information on VELUX solar, contact your local installer today.