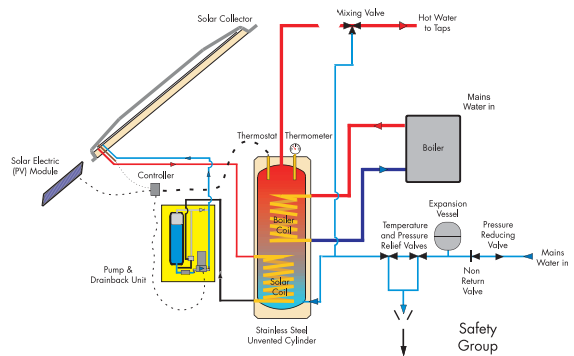
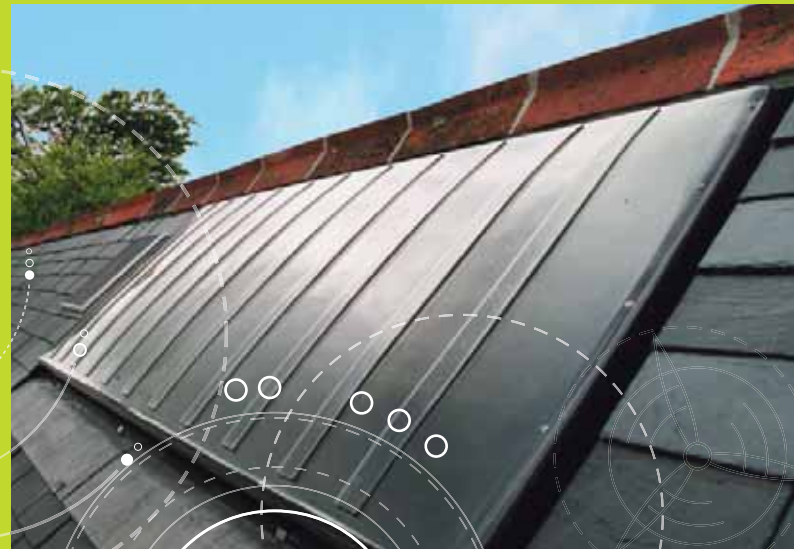


Solar Water Heating Systems

Simple, Effective & Affordable



The natural solution to sustainable energy

- Innovative Dutch technology, designed with simplicity in mind
- No maintenance costs
- Tested under British Standards for solar water heating BS EN 12975
- Totally solar powered, pump and controls can be run by solar electricity rather than mains power
- Features drain-back technology, protected from summer overheating, prevents freezing, reduces maintenance requirements
- Designed for roof integration, can also roof mount, install on flat roofs and walls
- Easy plumb-in kit
- Full installation in 1-2 days
- Compatible with most conventional water heating systems including combination boilers
- Includes pre-assembled pump, control unit and drain back vessel
- Provided with new "solar compatible" water storage cylinder, either vented, un-vented or thermal store
- All pipework run in copper microbore
- Planning not usually required as the collector does not stand more than 10cm from roof (same rules as for Velux window)

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Principles of Operation

- The system is managed by the control centre, which includes a light sensor fitted inside the solar collector.
- When there is sufficient daylight water is pumped from a storage vessel and flows through micro-bore copper piping fitted beneath the solar collector.
- The water flowing through the copper piping collects the heat, and transfers it to the cylinder via a solar coil. Hot water is then ready upon demand.
- When sufficient solar hot water is produced the auxiliary fuel supply (eg. gas-fired boiler) will fire and feed top-up heat into the hot water cylinder.
- With a combi boiler, pre-heated solar water is supplied from the cylinder and fed top up heat by the combi if necessary.
- The pump unit will switch off at the end of the day, or when the hot water in the cylinder reaches the maximum temperature.
- All the water is drained-back out of the system into a storage vessel to guarantee boil and freeze protection.
- There is a two-minute time delay fitted to the pump to allow for dark clouds moving overhead.

Solar Grants

The UK Government's grant programme provides funding towards the cost of installing solar water heating systems.

There is one stream of funding for domestic systems. Applications are usually automatically approved if the qualifying criteria are met.

A second stream is available for community and social housing projects. Applications are assessed on a competitive basis in quarterly rounds.

Imagination Solar is accredited under the Government's Grant Scheme, so we can help you apply for funding. Please contact us for details on the level of grants currently available.

Technical Specifications

Solar Collector		Pump	
Collector Area	2.7m ²	Flow rate	0.7 litre/min
Dimensions	H. 2440 x 1215mm V. 1230 x 2415mm	Power rating	5 watts 21 VDC
Weight	25g	Max. pump height	15m
Cover material	Polycarbonate	Controls	
Light transmission	90%	Min. radiation	165W/m ²
Absorber material	Copper	Thermal protection	80°C
Selective layer	Chromium oxide	Time delay	2 minutes
Absorption rate	96%	Power supply	Solar electric or mains
Emission rate	8%	Drainback Vessel	
Insulation	25mm Glasswool	Volume	5 litres
		Medium used	Water
		Pipework	
		Copper microbe 8mm diameter	



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