

## Solar Thermal Panels

A solar thermal hot water system is one of the simplest technologies you could incorporate into your building, and the simplest way to make a difference to your fuel bills. Solar thermal panels in the right position can provide you with a significant proportion of your annual domestic hot water.

### Benefits

- Reduced fuel use.
- Reduced carbon footprint.
- Easy to use.
- Low maintenance.
- If using a heat pump, they reduce heat pump use for hot water in sunny weather.

### Feel Good Factor

Solar thermal panels reward you with virtually free hot water, meaning that your boiler or heat pump would need to work less, thereby using less energy. Just knowing that from April to September your heat source will rarely come on is a great feeling, and seeing the difference in your energy bills is an added bonus. It doesn't need to be tropically hot, even a sunny day in winter can still produce a full tank of lovely, virtually free hot water.



In-roof panels fitted during the build process



Close-up of above.

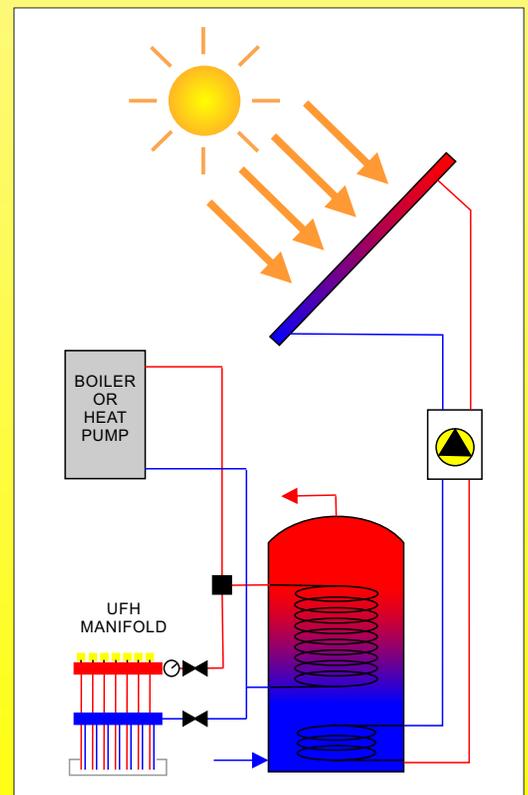


### How They Work

Solar radiation heats the flat plate collector. Solar transfer fluid in the collector is pumped to the coil in the bottom of the solar cylinder where heat is transferred to the water within the cylinder. This process is completely automatic.

The pump in the solar control module is automatically switched on when the temperature sensor in the solar panels detects a usable temperature from the sun.

The pump will switch off when the water temperature in the cylinder rises to a pre-set level.



**Reduce your carbon footprint to a fingerprint.**

# We won't compromise on quality



In-roof panels retro-fitted into a Victorian property.



In-roof panels fitted during a new build.

## Types of Panel

There are two types of solar thermal panel:

- Flat plate collectors
- Evacuated tubes

When evacuated tube solar thermal panels were developed they were generally more energy efficient than flat plate collectors. However, with the development of high energy heat absorption materials, flat plate collectors are now as energy efficient as evacuated tubes, and some flat plate collectors have a higher efficiency performance than evacuated tubes. Evacuated tubes are less favoured by specifiers and installers because they are more prone to external damage. Flat plate collectors are particularly robust in this regard.



On-roof panels fitted using A-frames.

From an onlooker's perspective, there is also no doubt that flat plate collectors, with their ultra low profile, are much more attractive to look at. Some flat plate collectors are as slim as 70 – 80 mm, and when integrated into tiles and slates, they can easily be mistaken for skylights. Our preference as installers will always be to specify flat plate collectors installed within the roof (integrated).

## Our Experience and Expertise

- ◆ We are self-build specialists with an in-depth knowledge of integrated heating systems.
- ◆ We care for every project as if it were our own.
- ◆ We use quality products and equipment with excellent guarantees.
- ◆ We provide a bespoke design service to suit your project.
- ◆ Our installation photos are used in our suppliers' manuals and training literature, and have also been used in various building magazines.
- ◆ We offer advice and support from the planning stage, right through to completion and beyond.
- ◆ We provide an unrivalled after sales service.

*Thank you for considering  
our company.*

*Simon & Pauline Currie*



**Installing solar thermal panels since 2004.**

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**We leave our clients with a warm feeling.**

