

## Useful numbers

### Sales

Tel: 01905 752640  
Fax: 01905 456445

### Spare Parts

Tel: 01905 752576  
Fax: 01905 754620

### Technical (Pre & Post Sales)

Tel: 08705 266241  
Fax: 01905 752741

### Service

Tel: 01905 256206  
Fax: 01905 757536  
Livingston (Scotland)  
Fax: 01506 441687

### Training

Tel: 01905 752526  
Fax: 01905 752535

### Literature Line

Tel: 01905 752556  
or download instantly  
from our website

[www.worcester-bosch.co.uk](http://www.worcester-bosch.co.uk)



The Council for  
Registered Gas  
Installers



BIMF  
ASSOCIATE



Member



INDUSTRIAL  
ASSOCIATE



UKAS

In partnership with



energy saving trust™



Heating &  
Hotwater  
Information  
Council



The mark of quality for domestic heating

Worcester Greenskies solar water heating  
Upgrading your existing central heating

Worcester, Bosch Group is a trading name of Bosch Thermotechnology Ltd.

This leaflet is accurate at the date of printing, but may be superseded and should be disregarded if specifications and/or appearances are changed in the interests of continued improvement. The statutory rights of the consumer are not affected.

Part No. 8 716 114 984 Issue A (11/07)

 **WORCESTER**  
Bosch Group

Worcester, Bosch Group,  
Cotswold Way, Warndon,  
Worcester, WR4 9SW  
Tel: 01905 754624 Fax: 01905 754619

Dedicated to Heating Comfort

 **WORCESTER**  
Bosch Group



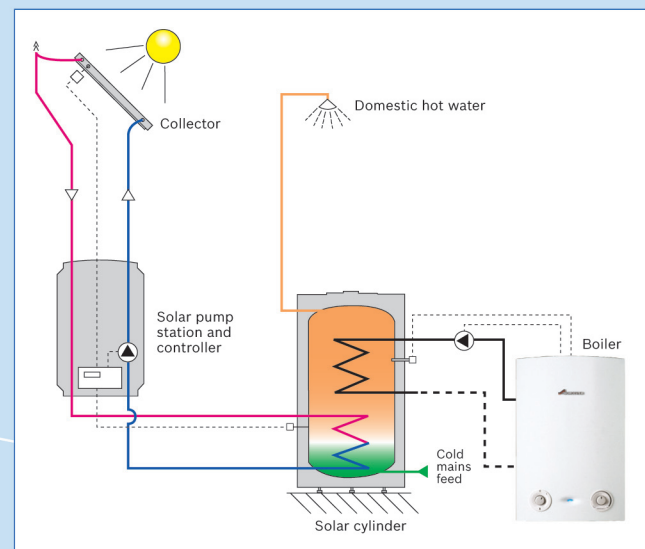


# Adding Greenskies solar water heating to your existing central heating system

Adding solar energy to your central heating system is a highly economical upgrade that every energy efficiency minded home owner should consider. Greenskies solar water heating systems can provide 50-70% of the hot water you use every year. The remaining portion of your hot water demand will be provided by your central heating boiler in the normal way. Installing Worcester Greenskies solar panels provides immediate savings on your fuel bills and major benefits to the environment.

## Solar installation type

When adding solar energy the type of existing central heating should be taken note of (combination, regular, etc) as this will effect the way in which you install the solar system. Special care should be taken, for example, when upgrading a combination boiler that the correct solar installation method is used. The following information will help you settle on an installation type that best suits your current central heating system and warn you of the potential problems of an unsuitable installation.



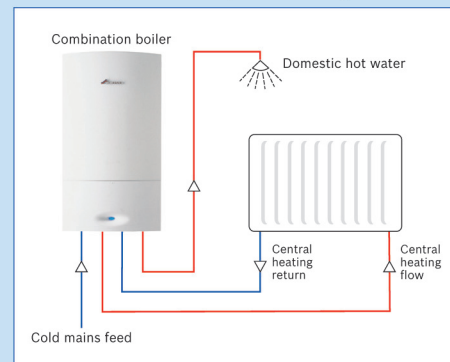
## Regular central heating systems

The most common and successful solar system layout uses a twin coil cylinder which is fed by both a boiler and the solar panels. The solar system and the regular heating system do not come into direct contact with each other and the only shared part is the cylinder. The solar system has its own pump, expansion vessel, pressure relief valve, air vent and controller.

The Worcester solar package is ideally suited for use with Worcester oil or gas fired regular or system boilers.

Regular systems are ideally suited to solar installations

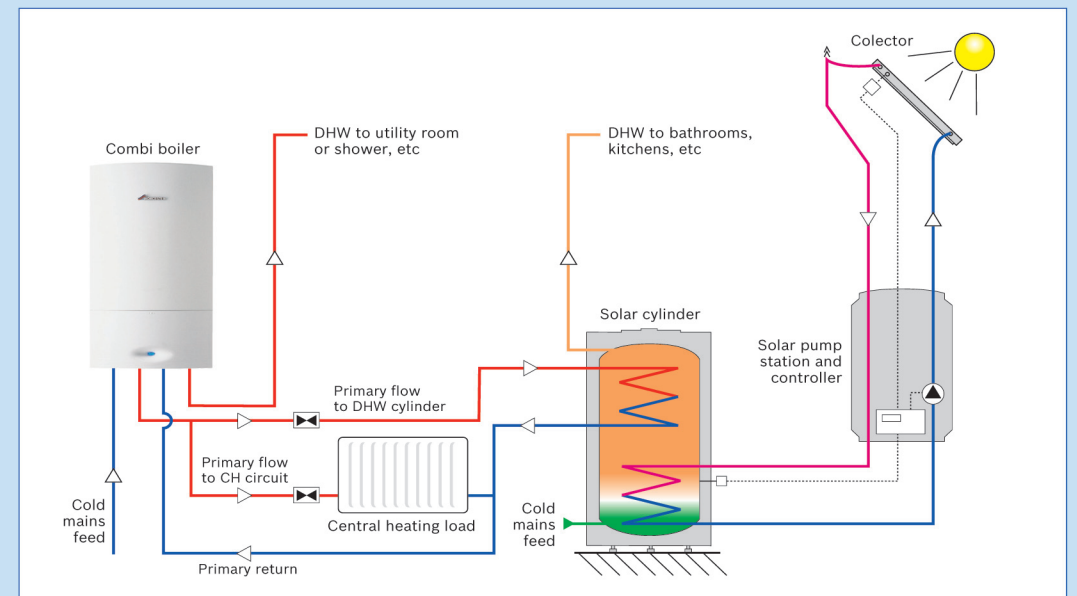
Combination systems do not require a hot water cylinder



## Combination heating systems

A combination boiler heats the hot water directly from the mains, consequently a combi system does not have a hot cylinder. This of course makes it a little more difficult to connect a solar system to a combi boiler. If however it is desired that a solar system is installed, it is possible by installing a twin coiled cylinder that would provide hot water to the majority of the hot water outlets whilst still retaining the combi hot water operation for perhaps a shower or utility room. This would also require the existing heating flow pipe to be separated to a primary flow pipe and the installation of 2x two port motorised valves, as such creating two primary

circuits, one for the existing heating system and one for the heat exchange coil within the hot water cylinder. We do not recommend the pre-heating of the mains water inlet to a combi boiler unless the system features approved temperature blending equipment.



An addition of a hot water cylinder allows for solar installation