

# Solar Water Heating

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Want to get an idea which solar setup would suit your needs before contacting an installer? [Answer a few questions about your home](#).



## Greenskies Solar Lito

- ✓ Worcester's affordable and flexible on-roof solution for solar hot water
- ✓ Simple to install
- ✓ Ultra lightweight

[View Details](#)



## Greenskies Solar Lifestyle

- ✓ Worcester's most popular solar panel- perfect for a variety of lifestyles and property types
- ✓ Can be fitted in roof or on roof
- ✓ Worcester's most efficient flat plate collector

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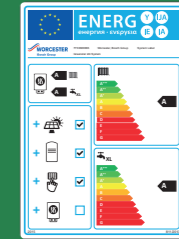
## Greenskies Solar Lux

- ✓ Worcester's premium collector - hot water luxury
- ✓ Ideally suited to colder climates
- ✓ Can provide heat for central heating

[View Details](#)



All Greenskies solar collectors are MCS Solar Keymark approved. For more information visit: [microgenerationcertification.org](http://microgenerationcertification.org).



Further technical and ErP information for Greenskies solar collectors can be found on page 54.

### Greenskies Solar-Lifestyle flat panels

The highly efficient and versatile Greenskies Solar-Lifestyle flat plate panels incorporate industry-leading low heat loss technology, allowing optimal heat retention as soon as the sun rises.

With a modern, good looking one-piece panel design, the panels are available in portrait and landscape formats to suit your roof shape and space. They can be sited within a roof, on a pitched roof, on a flat roof or fixed to a wall.

- Stylish modern design
- High-efficiency collector for excellent heat retention
- Simple controls
- High performance output
- Landscape and portrait options to suit the available roof shape and space
- Compatible with Worcester Greenstore hot water cylinders
- MCS Solar Keymark certified.

### Greenskies Solar-Lito flat panels

The Greenskies Solar-Lito range of flat plate collectors provides simple and affordable solar hot water comfort.

- Attractive one-piece design
- Year round performance
- Affordable solution
- Easy to use controller
- Ultra light aluminium frame
- Compatible with Worcester Greenstore hot water cylinders
- MCS Solar Keymark certified.



*Greenskies solar thermal panels and Worcester regular or system boilers are perfect partners for efficient hot water. When used together, they can efficiently provide 100% of a home's hot water requirements.*

\* Terms and conditions apply.

### Why solar thermal panels?

1. The easiest renewable technology to integrate with an existing gas or oil-fired boiler or ground source heat pump
2. Meets up to 60% of your annual hot water requirements\*
3. Tried and tested for over 20 years
4. Suitable for a range of roof surfaces and positions
5. Extremely robust with minimal maintenance
6. 10 year guarantee as standard

### Enhance your system with a Greenstar boiler.

**Greenstar gas or oil-fired boilers** are designed with advanced condensing technology, they are over 90% efficient, helping to reduce your carbon footprint and your energy bills even further. These high performance boilers are ideal for meeting any hot water shortfalls during the winter months as well as providing reliable and consistent heating comfort for your home throughout the year.



**We always recommend you consult a qualified MCS registered installer prior to choosing your solar system.**

\*Source: Energy Saving Trust.

### Greenskies solar thermal hot water panels technical information

	GREENSKIES SOLAR THERMAL HOT WATER PANELS				
	GREENSKIES SOLAR-LUX 6	GREENSKIES SOLAR-LUX 12	GREENSKIES SOLAR-LIFESTYLE	GREENSKIES SOLAR-LIFESTYLE	GREENSKIES SOLAR-LITO
Orientation	Portrait 6 tube	Portrait 12 tube	Portrait	Landscape	Portrait
Height	2,057mm	2,057mm	2,017mm	1,175mm	2,026mm
Width	702mm	1,392mm	1,175mm	2,017mm	1,032mm
Depth	101mm	101mm	87mm	87mm	67mm
Aperture area	1.28m <sup>2</sup>	2.57m <sup>2</sup>	2.25m <sup>2</sup>	2.25m <sup>2</sup>	1.94m <sup>2</sup>
η0 efficiency	64.4%	64.4%	76.6%	76.6%	75.6%

### Greenstore ground source heat pump technical information

	GREENSTORE LECP COMBI GROUND SOURCE HEAT PUMPS			
	GREENSTORE 6 COMBI	GREENSTORE 7 COMBI	GREENSTORE 9 COMBI	GREENSTORE 11 COMBI
Height	1,800mm	1,800mm	1,800mm	1,800mm
Width	600mm	600mm	600mm	600mm
Depth	645mm	645mm	645mm	645mm
Weight – dry	200kg	202kg	210kg	218kg
Heating output (B0/W35) <sup>1</sup>	5.4kW	6.6kW	8.7kW	10.2kW
CoP (B0/W35) <sup>1</sup>	3.96	3.82	3.84	3.97
Volume domestic hot water	185 litres	185 litres	185 litres	185 litres
Power supply	230V 1N~50Hz	230V 1N~50Hz	230V 1N~50Hz	230V 1N~50Hz
ErP – Seasonal Space Heating energy efficiency class – medium temp (measured at flow temperature of 55°C)	A+	A+	A+	A++
ErP – Water Heating energy efficiency class (declared load profile)	B (L)	B (L)	B (L)	B (L)

<sup>1</sup> With internal pump according to EN 14511

	GREENSTORE LECP SYSTEM GROUND SOURCE HEAT PUMPS			
	GREENSTORE 6 SYSTEM	GREENSTORE 7 SYSTEM	GREENSTORE 9 SYSTEM	GREENSTORE 11 SYSTEM
Height	1,520mm	1,520mm	1,520mm	1,520mm
Width	600mm	600mm	600mm	600mm
Depth	645mm	645mm	645mm	645mm
Weight – dry	150kg	155kg	165kg	175kg
Heating output (B0/W35) <sup>1</sup>	5.4kW	6.6kW	8.7kW	10.2kW
CoP (B0/W35) <sup>1</sup>	3.96	3.82	3.84	3.97
Power supply	230V 1N~50Hz	230V 1N~50Hz	230V 1N~50Hz	230V 1N~50Hz
ErP – Seasonal Space Heating energy efficiency class – medium temperature (measured at flow temperature of 55°C)	A+	A+	A+	A++
ErP – Seasonal Space Heating energy efficiency class – low temperature (measured at flow temperature of 35°C)	A++	A++	A++	A++

<sup>1</sup> With internal pump according to EN 14511



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### Greensource air to air heat pump technical information

	GREENSOURCE AIR TO AIR HEAT PUMP	
	OUTDOOR UNIT	INDOOR UNIT
Height	540mm	292mm
Width	780mm	860mm
Depth	265mm	205mm
Weight	39kg	9kg
Min./max. heat output	4.1kW	0.9 - 6.0kW
Min./max. cooling effect	3.5 kW	0.9 - 4.0kW
CoP <sup>1</sup>	-	3.8
Air flow	30.2m <sup>3</sup> /min	-
Air flow – cooling	-	6.9 - 10.6m <sup>3</sup> /min
Cooling SEER	-	5.1
Sound level – cooling	47dB(A)	-
Sound level – low fan speed cooling	-	28dB(A)
Power supply	220 - 240V	220 - 240V
ErP – Energy Efficiency Heating Class	-	A
ErP – Energy Efficiency Cooling Class	-	A

<sup>1</sup> ErP – Air Conditioning Lot 10

### Greenstore cylinder technical information

	GREENSTORE UNVENTED CYLINDERS						
	GREENSTORE SC-90	GREENSTORE SC-120	GREENSTORE SC-150	GREENSTORE SC-180	GREENSTORE SC-210	GREENSTORE SC-250	GREENSTORE SC-300
Height	835mm	1,035mm	1,285mm	1,490mm	1,665mm	1,860mm	2,155mm
Diameter	570mm	570mm	570mm	570mm	570mm	570mm	570mm
Weight – dry	26kg	31kg	36kg	40kg	44kg	48kg	54kg
Volume domestic hot water	93 litres	123 litres	161 litres	191 litres	216 litres	246 litres	292 litres
Standing heat loss – 24hr	1.008kWh/24hrs	1.296kWh/24hrs	1.632kWh/24hrs	1.824kWh/24hrs	1.944kWh/24hrs	2.136kWh/24hrs	2.304kWh/24hrs
ErP energy efficiency class/ Standing heat loss	B / 42W	C / 54W	C / 68W	C / 76W	C / 81W	C / 89W	C / 96W

	GREENSTORE SOLAR COMPATIBLE UNVENTED CYLINDERS				
	GREENSTORE TC-150	GREENSTORE TC-180	GREENSTORE TC-210	GREENSTORE TC-250	GREENSTORE TC-300
Height	1,285mm	1,490mm	1,665mm	1,860mm	2,155mm
Diameter	570mm	570mm	570mm	570mm	570mm
Weight – dry	41kg	45kg	50kg	54kg	60kg
Volume domestic hot water	158 litres	187 litres	211 litres	241 litres	287 litres
Dedicated solar volume	65 litres	65 litres	105 litres	115 litres	115 litres
Standing heat loss – 24hr	1.632kWh/24hrs	1.824kWh/24hrs	1.944kWh/24hrs	2.136kWh/24hrs	2.304kWh/24hrs
ErP energy efficiency class/ Standing heat loss	C / 68W	C / 76W	C / 81W	C / 89W	C / 96W



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