

Applications

- BOILING water at zero cost!
- NO electricity required!
- Can be used anywhere there is sunlight:
 - off-grid,
 - camping,
 - up a mountain,
 - disaster relief,
 - at HOME
- Use for:
 - Tea, coffee, pot noodle
 - Cooking rice, potatoes, boiled eggs etc
 - Sterilising water
 - Sterilising medical equipment (e.g. in remote locations)
 - Washing dishes, washing, shaving etc.

Camping

The Solar Kettle gives hot/boiling water wherever there is sunshine. Whether camping in a tent, motor-home, caravanning or on manoeuvres with the army; the Solar Kettle means no more reliance on gas stoves and no more heavy and expensive gas canisters. No dangerous flames. Just an unlimited source of free energy!

Mountaineering

The Solar Kettle is light and compact. It weighs just 1Kg. It can be used to melt snow to make tea, coffee, soup and hot food which can seriously revive a cold and tired mountaineer. Alpine conditions of clear sunshine give ideal operating conditions regardless of the air temperature.

Survival

The Solar Kettle can be used to sterilize water thus making unknown water sources safe to drink. Beverages such as tea, coffee, hot chocolate, soup can easily be made with the solar kettle. In extreme cold climates it can be used to melt snow to provide drinking water.

Inspired by how well the Solar Kettle works? Why not look at our website for heating all of your house's water with one of our solar panel kits!

The future's bright, the future's solar...



SOLAR KETTLE

Instructions & Info

Thank you for purchasing the Contemporary Energy Solar Kettle. We hope you enjoy the simplicity of heating water directly from sunlight. The Solar Kettle generates BOILING water, hence please take care and follow the simple safety precautions below.

CAUTION:

1. **Always fill the Solar Kettle to the TOP whenever it is used.** Failure to do this can be dangerous: the inner heating surface can overheat, and if the kettle is tipped to pour water out and the water boils instantly and violently when it hits the hot surface.
2. **Do not leave the Solar Kettle empty, or half full in the sunlight.** This can generate dangerously high temperatures inside the tube (~240°C). If water is added the violent thermal shock can cause the tube to break.
3. **The solar kettle produces BOILING water, take great care when it has been in the sunlight.** Pour slowly and carefully.
4. **Do not leave the Solar Kettle unattended or within reach of children.**
5. Always check the temperature of the water using the built in thermometer.
6. Do not lift by the lid, or the metal stand (this is **not** a handle!) always support by holding the bottom of the kettle when moving the kettle.

contemporaryenergy.co.uk

www.solar-kettle.com

www.solarkettle.co.uk

Search 'Solar Kettle'
on:



Unpacking

Step 1: Remove the protective film from the reflectors (blue tinted). Use a finger nail in the corner of the reflector wing to bring up a corner, and peel off the film from the entire reflector and discard it safely once detached from the kettle. Repeat for other wing



Step 2: Rinse out interior before using the kettle

**ENJOY YOUR UNLIMITED
FREE ENERGY!!!**

www.solarkettle.co.uk



How to use the Solar Kettle

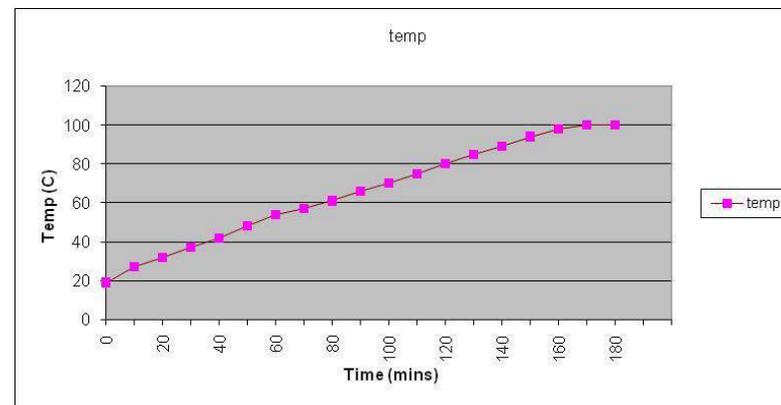
In good (UK) sunlight conditions the Solar Kettle will heat water by 4-5°C every 10 minutes. Hence to get to boiling from cold it can take about 2:30 – 3:00 hours. For a good cup of tea the water should be more than 90°C.

Using the Solar Kettle daily just requires a little forethought. If you fill it the night before and leave it where it will be in the sun at sunrise, it could be hot by breakfast. If you fill it at 9am it could be hot by 12. Because of the excellent insulation properties of the vacuum tube, the Solar Kettle will retain much heat overnight. Hence you can have water for washing, shaving etc first thing in the morning.

How does the Solar Kettle work?

At the heart of the Solar Kettle is an evacuated vacuum tube. This absorbs solar energy, converting it directly into heat which heats the water inside. Each tube is constructed like a Thermos™ flask, so the heat energy goes in but doesn't come out. The vacuum tube consists of two glass tubes made from borosilicate glass (same as Pyrex™). The outer tube is transparent allowing light rays to pass through with minimal reflection. The inner tube is coated with a special selective coating which features excellent solar radiation absorption and minimal emission/reflection properties. The ends of the tubes are fused together with the space between them being evacuated. The insulation properties of the vacuum are so good that while the

inside of the tube may be 175 Deg C, the outer tube is cold to touch. This means that the Solar Kettle can perform well even in cold sunny weather.



Model	Length (mm)	Capacity (ml)	Capacity (cups)
T43	490	500ml	3

Where should I place the Solar Kettle?

Place it outside in direct sunlight. The side of the tube should be at right angles to the sun, so that it catches as much sunlight as possible on the sides which are the absorbing surfaces. So the foot should be pointing south, and the top pointing north. Try to choose a relatively open spot with no shading where it will stay in the sunshine as the sun moves across the sky. **If the Solar Kettle casts a shadow it will be working.** It is best if angled at ~45 degrees. (60 degrees in winter, 30 degrees in summer).

Is there enough sunshine for it to work?

The Solar Kettle works well in the UK climate, especially during the summer months. It works best in direct sunlight, but will still work effectively on diffused solar radiation, and hence can produce hot water (not boiling) even on cloudy days.

How long will the Solar Kettle last?

The vacuum tube if treated well will last up to 25 years. There are no moving parts. If handled carefully the Solar Kettle will last for many years.

Is it fragile?

The tubes are durable and have been tested to withstand hail up to 25mm in diameter. The borosilicate glass is toughened to make it strong. However it is glass, and can break if dropped. The most vulnerable points are the ends of the tube.

What is the guarantee length?

The Solar Kettle is guaranteed against manufacturing defects for 24 months. It is not guaranteed against accidental breakage.