

SoundsSolar

Your Power Back Up and Solar Specialists!

- Solar Power Backup
- UPS
- On/Off Grid
- Business
- Domestic
- Guaranteed Quality Equipment
- Installation
- Tailored system design
- Modular systems

Living in Zimbabwe, we are all familiar with the power issues that we face on a daily basis. We find ourselves wondering if there is another solution to the fuel hungry, labour intensive option of a generator.

There is...!

At Sound Solar we offer an all inclusive service providing you with an alternative power solution, which is both efficient and will save you money! Using inverters recharged by the sun's rays we can cover all of your power requirements.

Our engineers will discuss your requirements with you then design a system specifically to meet your needs, whether you opt for the whole system or a modular system which can be added to and upgraded as you wish.

Whether you are looking to just run your TV for the day or power your whole house/business through the longest power cuts, we are able to help.

Call Neil on 0775188365 / 04-499772

Or e-mail neil@soundsolar.net for more information

High Quality Imported Equipment:

- Suntech Solar Panels from the USA
- Xantrex Inverters from USA
- Morningstar Solar Controllers from USA



SoundsSolar

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 E-mail neil@soundsolar.net



2 Year Guarantee!

Solar Geysers

Solar water heaters use the infra red radiation from the sun a free resource which is plentiful in Zimbabwe. It is green, sustainable & cost effective to harvest.

- **Save Money**—It is estimated that in Zimbabwe your new solar geyser will pay for itself in electricity bills alone in around two years **or less**. As the units have a lifespan of 15+ years, that is at least **13 years of free hot water!**
- **Reliable Hot Water**—Installing a solar geyser where there is **no mains electricity** will bring hot water to areas of the country where the only alternative is an open fire. In addition it provides a reliable source of hot water even if you have **interrupted mains electricity**.
- **Constant Hot Water**—All of our solar geysers are available with Electric boost / backup for periods of excessive hot water demand.
- **Stainless Steel tanks** and quality construction for very long working life

Manufactured under strict quality controls in China using high technology production methods, the manufacturer has obtained The European Quality standards ISO9001:2001 & ISO 14001. The products have been given the European safety & quality CE mark, and are exported around the world to countries such as Germany, South Africa, South Korea, East & South Asia, etc.



www.soundsolar.net



How it all works



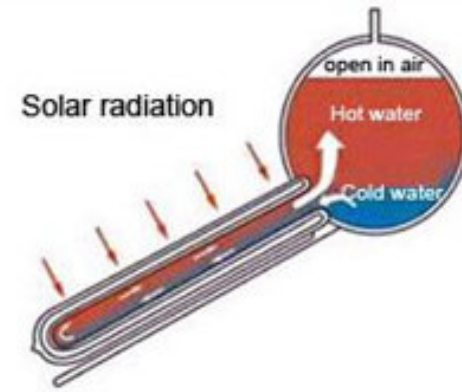
Three-layer vacuum tube

All of our solar geysers use similar glass vacuum tubes

Similar to the construction of a vacuum flask, the glass vacuum tubes used in our solar water heaters are of a double skin sealed construction. The air between the 2 layers is removed. This allows the light radiation from the sun to be transmitted through the tube, but prevents heat loss due to conduction or convection.

The glass used contains borosilicate which enhances the light transmission through the glass. The inner layer of glass is further coated to reduce reflected light. These methods make for a very efficient solar absorber, with only small losses.

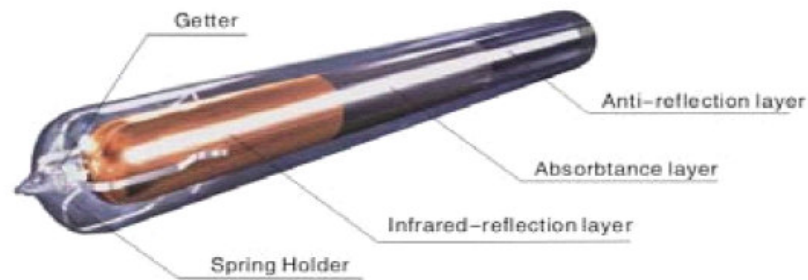
The tubes are designed to withstand hail of >25mm diameter and have a lifespan of greater than 15 years



Water filled tube in action

Applications of glass tubes

These tubes are connected directly to the water tank and filled with water. The cold water sinks to the bottom of the tube, is then heated by the sun's radiation and rises back into the tank as hot water. This process continues during sunlight hours. At night, the hot water is contained inside the super insulated tank, so the heat is retained. This method of energy harvest is cost effective, but cannot be used in freezing conditions.



Evacuated Glass Tube Construction



Simple to follow DIY instructions, or we can install for you



Installed on the slope roof



Installed on the flat roof

Mounting options

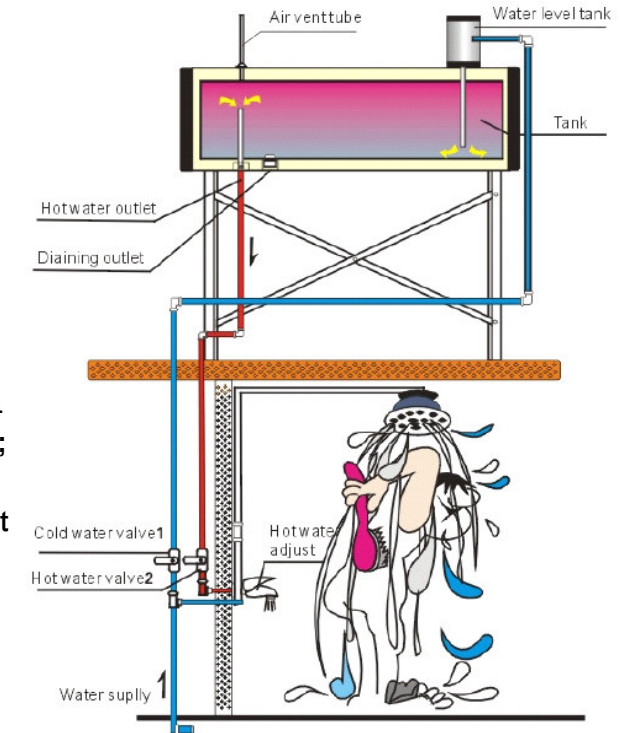
Gravity & Pressure Geysers

Gravity system

These models use gravity to feed the hot water

Advantages:

- Cost effective water heating using water filled evacuated glass tubes
- Efficient solar harvest even on overcast days
- External header tank feeds cold water into system
- Highly efficient insulation with polyurethane foam;
- Simple structure, easy to assembly and install,
- Can be used together with Auxiliary electric boost
- 15+ year service life
- Can be mounted on flat or pitched roofs,
- Stainless steel outer tank for long life
- Sizes from 85—300 Litres available
- NOT suitable for use in freezing conditions.



Pressure system

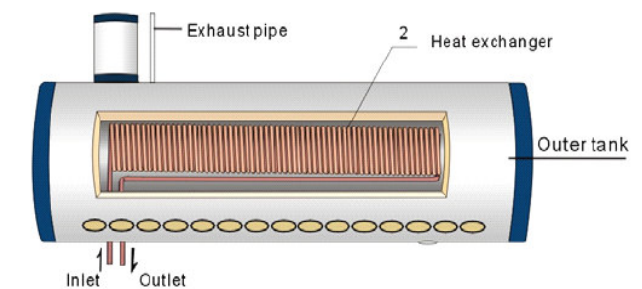
These models can be run at municipal water pressure or with booster pumps up to 6 Bar

Operation:

These models use a tank filled with low pressure water heated by the sun. Inside that is a copper coil of pipe through which the pressurised water flows.

Advantages:

- Cost effective water heating using water filled evacuated glass tubes
- Efficient solar harvest even on overcast days
- Works with pressure up to 6 bar
- Can be installed at ground level
- Ideal for use with booster pumps
- Highly efficient insulation with polyurethane foam;
- Simple structure, easy to assembly and install,
- Can be used together with Auxiliary electric boost
- 15+ year service life
- Can be mounted on flat or pitched roofs,
- Stainless steel outer tank for long life
- 200 Litre size available
- Suitable for use in freezing conditions.



Cutaway of pressure system showing copper coil inside

Other Solar Geyser Products include Solar Collectors for heating swimming pools etc. Ask for more information.