

## Sol\*Saver Water Pasteurizer

The **Sol\*Saver** unit has been designed to reach the temperature of 150°F/66°C in sunny conditions in about two hours. Built with aluminum, stainless steel and tempered glass, the unit is rugged and easily transportable. (24"x23"X5.5" or 58.5 cm x 61 cm x 14 cm)

Microbiological research has proven that bacteria and viruses can be destroyed by heating drinking water up to 150°F/66°C, the point at which pasteurization occurs, making the water safe to drink. Solar pasteurization kills the pathogens and makes the water safe to drink, but does not address turbidity or taste of the solar pasteurized water.



## Advanced Solar Water Pasteurization

Eight stainless steel bottles (22 oz/650 ml) are filled with water, closed, and snapped into the unit. Sealed with a transparent lid, the unit is put in the sun until the built-in thermal indicators record that pasteurization temperature has been reached.



These thermal indicators (similar to a thermometer) made out of glass are the most important components to make sure that the water has been pasteurized and is safe to drink. Do NOT drink the water if the thermal indicator under the bottle has not changed by reaching 150°F/66°C and achieving pasteurization.



Photo in Madagascar: Dr. Ramihantaniarivo - [www.zahana.org](http://www.zahana.org)

Once finished, the stainless steel bottles (themselves disinfected in the process) are allowed to cool and will provide long-term sanitary storage of the disinfected drinking water.

Using drinking water out of the stainless steel bottles avoids the potential for recontamination, often a risk encountered with batch type solar pasteurizers.

On sunny days, several heating cycles can be achieved, providing a multi-day store of reusable, durable and easily transported water bottles. A detailed instruction manual is available in English and French as a pdf file.



Photos: Dr. Ramihantaniarivo

For additional information and our BlazingTubeSolarAppliance visit: [www.blazingtubesolar.com](http://www.blazingtubesolar.com)  
Contact us via email at: [info@blazingtubesolar.com](mailto:info@blazingtubesolar.com)