

The **BlazingTubeSolarAppliance** was developed in Hawai'i and incorporates the highest efficiency solar components available from around the world. Constructed of metal and glass with no moving parts, the BlazingTubeSolarAppliance has a long service life expectancy and is very stable in windy conditions. Its unique design and energy conservation characteristics allow it to operate at high altitude or under marginal weather conditions, during which most other solar cookers fail.

Foods can be boiled, baked, steamed and fried throughout daylight hours, with operating temperature normally above 300°F/150°C. Hot serving temperatures above 160°F/72°C are maintained late into the evening hours, due to a well-insulated cook box.



Advanced Solar Vacuum Tube Technology



All Photos from Namibia: Deli Saavedra - www.solsolidari.org

- **Vacuum Tube:** The core element is the 5"/12.7 cm diameter, all-glass, selectively coated, triple-cavity solar vacuum tube.
- **CPC Reflector:** An outdoor aluminum, mirrored reflector (97% reflectivity) surrounds the tube in a compound parabolic shaped metal frame.
- **Cook Box:** A highly insulated heat retention cook box, with hinged cover, houses a custom designed aluminum cook pan. The insulated heat retention cook box is round (as are cooking pots) to optimize the space needed for the hot air surrounding the cooking pot. It accommodates one cooking pot with a maximum capacity of 19 liter/5 gallon.
 - **Vegetable oil:** 5 liters/1.321 US gallons of high temperature vegetable oil fills the tube and bottom section of the cook pan (which are tied together using a silicone hose coupling.)
- **Reflector:** The solar heat generated by the reflector (a compound parabolic curve) heats up the oil in the vacuum tube moving it upward into the round heat retention cook box with 12"/30 cm inside dimension.
- The **operating temperature** achieved within the cook box of 350°F/177°C, allows bread to bake, water to boil, autoclave to sterilize and even food to fry. Cook times are comparable to what gas or electric stove appliances require.
- **Designed to last:** readily assembled using hand tools, designed to be stable in an outdoor environment. Front wheels are incorporated into the frame structure allowing easy mobility. (Max. dimensions: 97" x 53"/2.46 m x 1.34 m)
- A **high durability cover** is included to cover and store the BlazingTubeSolarAppliance when not in use or the cooking is finished. Covering the unit will avoid overheating the oil when the cooker is not in use but could accidentally be exposed to direct sunlight.

For additional information and our Sol*Saver Water Pasteurizer visit: www.blazingtubesolar.com
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