



Medical Equipment Sterilization

Our 60 Liter Stove, paired with a sterilizer, creates an autoclave system that brings reliable, low-cost medical-grade sterilization to hospitals and clinics in the developing world. Powered by wood or alternative biomass fuels, the unit is designed to serve as either a backup for urban health centers or as a primary system for rural clinics without access to electricity. The system sterilizes medical equipment for reuse, and medical waste for safe disposal: untreated, bio-hazardous waste is a major disease vector in the developing world, especially in epidemic-stricken areas.

The 41-liter autoclave, manufactured by Wisconsin Aluminum Foundry, is interchangeable with our 60-liter cooking pot, and allows the stove to maintain the same high-efficiency, low-emission performance as during normal use. The system is lab and field-tested, and proven to eliminate 100% of harmful microbes with dry-steam sterilization. The unit completes a full sterilization cycle in under an hour with less than 1kg of wood.

The autoclave system is currently being implemented in Kenya, Zambia, Nepal, Chad, and the Democratic Republic of the Congo.

Attributes

- **Reliable** – Proven effective and reliable after years of independent use under tough conditions
- **Fast** – Complete sterilization takes less than an hour
- **Efficient** – .9Kg of solid fuel (2 lbs) and a minimal amount of water per cycle
- **Effective** – Failsafe indicator strips ensure complete sterilization
- **Fuel flexibility** – Runs on any biomass fuel
- **Clean-burning** – Emissions reduced by 90% versus an open-fire used to boil water
- **User-friendly** – Requires minimal training
- **Safe** – Insulated stove design and integrated pressure-relief valve prevent operator injury
- **Durable** – Stove and autoclave are designed to withstand years of tough use
- **Easy to repair** – Interchangeable parts allow for simple repairs in the field, extending system life

Specifications

	<u>Stove Body</u>	<u>Autoclave</u>
Weight	84 lbs/38 kg	40 lbs/18 kg
Diameter	23 in/59 cm	16.5 in/42 cm
Height	34.5 in/88 cm	19 in/48 cm
Shipping weight	115 lbs/52 kg	42 lbs/19 kg
Shipping dimensions	40 x 24 x 39 in 101 x 61 x 98 cm	19.5 x 19.5 x 20 in 50 x 50 x 51 cm



Detail view of autoclave