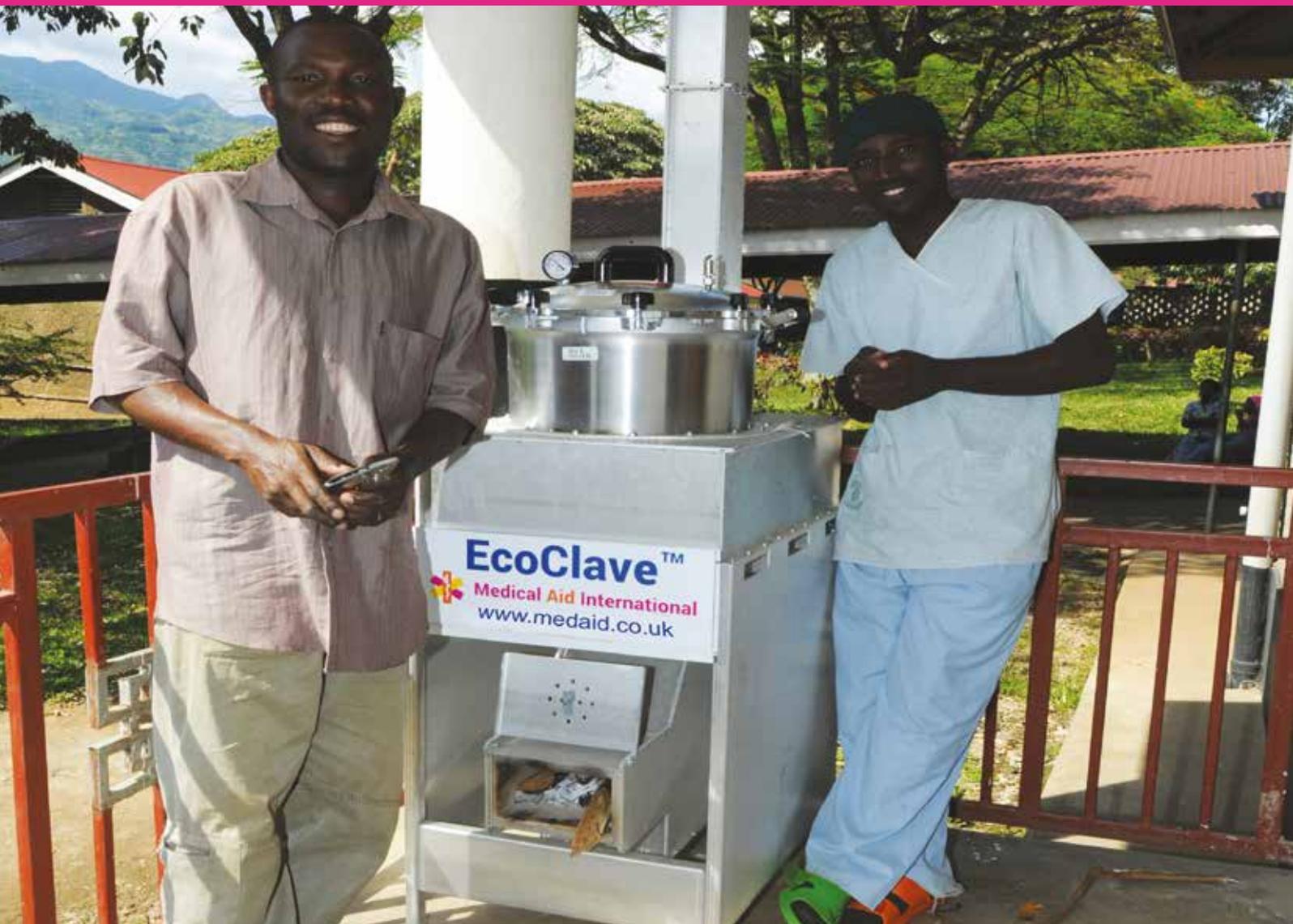


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The MAI EcoClave™

An innovative solution to the sterilisation challenges faced in low resource environments.



**Medical Aid
International**

Supporting Healthcare in Low Resource Environments

INTRODUCING The EcoClave™



The EcoClave™ has been specially designed to address the challenges that currently prevent effective sterilisation in low resource environments.

- > **Unreliable electricity.** Most autoclaves require three-phase electricity, but healthcare providers in low resource environments often have one-phase electricity, unreliable electricity supplies, or no electricity at all. Power blackouts and interrupted supply affect sterilisation cycles, and render the autoclaves useless when the power is off.
- > **Fuel efficiency.** Non-electric pressure-cooker autoclaves typically found in low resource environments are often prohibitively expensive to run, using large amounts of kerosene or wood as a fuel source. Sterilisation is abandoned because it is too expensive. Open fires are also dangerous, and a reduction in their use will lead to fewer burns
- > **Technically demanding.** Large electric autoclaves are complex pieces of equipment, which require training to use properly. Healthcare workers may have difficulty accessing appropriate training and either operate the autoclave incorrectly or refuse to use it, meaning instruments are not sterile.
- > **Maintenance.** Electric autoclaves are fragile and are frequently damaged in transit, especially to places with difficult transport links. They require a lot of maintenance to run and break down easily. If BioMedical Engineering Support is not available on-site, autoclaves stay broken as there are neither the spare parts nor the expertise to fix them.



The EcoClave™ is non-electric, fuel-efficient, simple to use, easy to maintain, robust, and efficient.

“Cleaning and sterilising are now effective. EcoClave has greatly impacted on infection control in a way that instruments and dressing packs are sterile and the procedures are done without any fear of infection since there are no assumptions.” – African Source

The EcoClave™ uses an All American pressure cooker autoclave inside an aluminium frame.

The frame safely and securely holds the autoclave, and channels heat to its base and sides, increasing fuel efficiency. The unit is fully insulated and fireproofed, and the adaptable flue directs smoke to outside the facility. Pressure and heat are fully controllable.

Tech Specifications

- > **39.5 litre capacity** (holds three large general surgical sets).
- > From cold 15-20 minutes to get to sterilisation pressure.
- > **1-3 shoeboxes of wood** per cycle.
- > Maintenance free.
- > Comes with **multiple flue pieces** to adapt to any local condition.
- > **Main unit** is 530mm wide. 700mm deep. 930mm high.
- > **With one chimney** component 1950mm high. Each additional one is 1000mm.



"The EcoClave sterilises both dressings and instruments; items that are very key when dealing with any surgical procedures... The EcoClave has greatly aided in the achievement of this effort because we now see a quicker wound healing process among our patients as compared to those who received care before the installation of the EcoClave." – African Source

A bespoke service – from conception to completion

Every healthcare setting is unique. At Medical Aid International we take account of each client's individual needs, objectives and budget to provide a bespoke service that makes the most of their money.

We can manage every part of the process to ensure that projects are successful in the long-term:

- > Equipment procurement.
- > All shipping, customs and logistics.
- > When required installation on-site by our trained engineers.
- > BioMedical Engineering Support and education.
- > Training.

Talk to us today about the needs of your project, and we'll provide an individual quotation based on your requirements.

"It's simply amazing. the size and capacity to take in a big number of equipment's all at once is really helping out achieve sterilization in a one step attempt" – African Source



See our YouTube site
for film of an EcoClave™
being used:

[Youtube.com/user/medaidintl](https://www.youtube.com/user/medaidintl)

Medical Aid International
Unit 3, Firs Farm
Stagsden
Bedfordshire
MK43 8TB

Tel: + 44 (0) 1234 930 394

Fax: + 44 (0) 8000 151 906

tim@medaid.co.uk

www.medaid.co.uk

 /medicalaidinternationalcic