

GentleKiln

USER MANUAL



6 HOPE ROAD
KINGSTON 10, ST. ANDREW
JAMAICA, WEST INDIES

GentleKiln

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GentleKiln

Acknowledgement

I would like to thank our Production & Administration Staff, Family and Friends who all supported the venture in the creation of this machine.

Special mention to the Bureau of Standards Jamaica and the Bamboo Indigenous Materials and Advisory Committee (BIMAC) who have been very instrumental in guiding the processes to ensure that our machines and products are world class.

To my wife and children for their continued suggestions, cooperation and ideas in making this product a reality.

I pray you enjoy using this machine as we enjoyed creating it.

Gentle Wallace

Inventor

GentleKiln

Kiln Location Safety

The best location for the kiln is a covered shed with at least 2 feet beyond the perimeter of the GentleKiln. The floor must be a solid, consolidated, well compacted, elevated concrete floor.

The GentleKiln must not be placed or used on a combustible surface. The surface on which the kiln is placed shall be capable of safely supporting the combined weight of the kiln, kiln load and any operating personnel.

All building, fire and safety codes must be observed when installing the kiln. Do not install the kiln closer than 10'-00" (3.05 m) from a combustible wall surface or object.

Install in a covered, well ventilated area.

Never place the kiln in a small, enclosed area. The area in which the kiln is placed into service shall be capable of safely dissipating all heat produced by the kiln. Never install a kiln that is directly exposed to the elements. Avoid extreme temperature change.

It is the user's responsibility to be knowledgeable regarding any and all contaminants, produced by the ware during firing, and take steps to properly and legally contain and dispose of these contaminants.

It is the user's responsibility to provide ventilation capable of removing all gases, fumes and other airborne contaminants produced by the ware during firing safely from work area and building structure.

Do not store flammable or combustible products near or in the same location with the kiln, such as gasoline, paint, aerosol cans, paper, curtains, plastics, etc. Store these items in another separate structure designed for this purpose.

Around the Kiln should be no object placed in such a way as to create a tripping hazard. The area around the kiln should be free of obstructions that may interfere with the proper and safe operation of the kiln.

GentleKiln

Kiln Use Safety

The surface of the kiln is hot and burn injuries are possible. Keep all children and unsupervised personnel away. Always wear protective clothing, gloves and eyewear when operating and handling a hot kiln.

Do not insert any object or access the kiln chamber with any part of your body without first verifying chamber temperature is below 135°F (57°C).

Protective clothing should be worn when operating the kiln and includes, but is not limited to, heat resistant gloves and eyewear capable of filtering Infrared and Ultraviolet light.

Do not operate the kiln over the maximum temperature rating. Never fire a kiln unattended beyond its anticipated firing time.

Be sure that kilns' Door Security locks are secured before firing. The hardware used for this security locks should be inspected periodically for damage and wear.

It is recommended that a fire extinguisher, capable of dousing fire, be accessible in the event of fire. Smoke detectors within the kiln room are also recommended.

Keep the door of the kiln closed when not in use.

It is the user's responsibility to have knowledge of the material intended to be fired. If you are unsure as to the safety of firing a particular material contact your materials supplier for guidance. If you remain unsure as to the safety of firing a particular material do not do it.

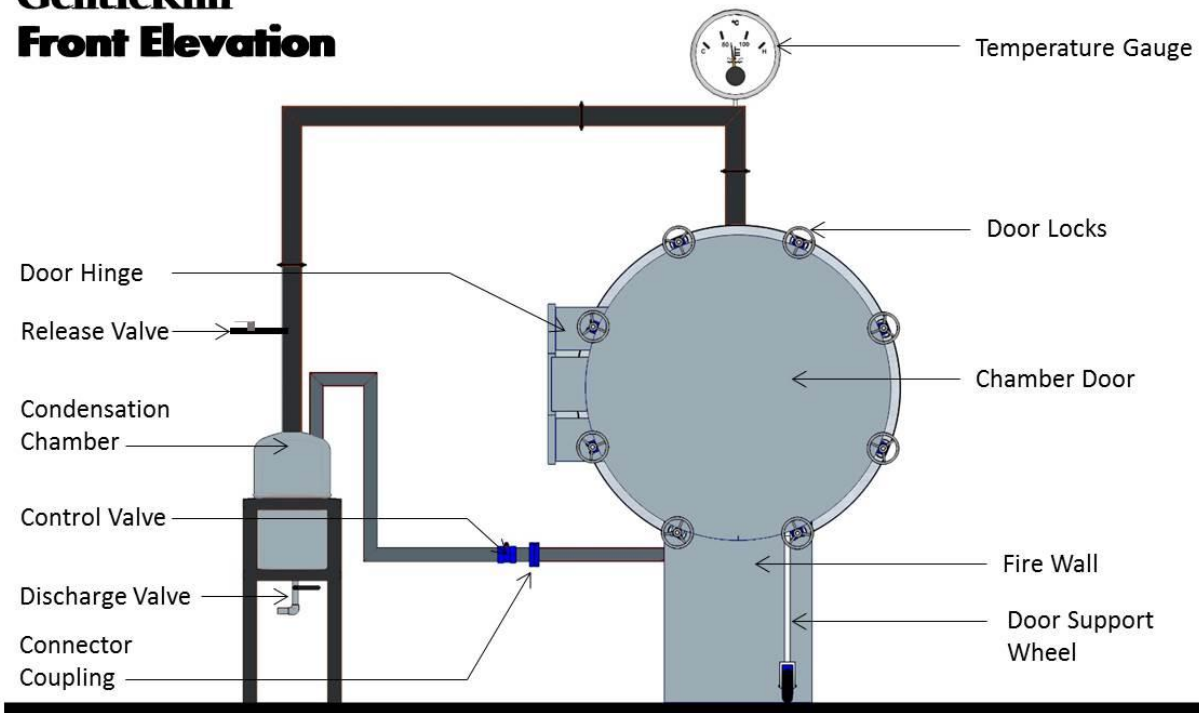
Do not use the kiln to prepare food, heat a living space, dry clothes or ice laden articles or use as a storage devise. The kiln is designed for one purpose and one purpose only: the firing of bamboo materials.

A kiln will remain very hot long after the firing is complete. All safety recommendations should be followed, even with the kiln cooling, to avoid any burn injuries. Keep children and other unauthorized personnel away.

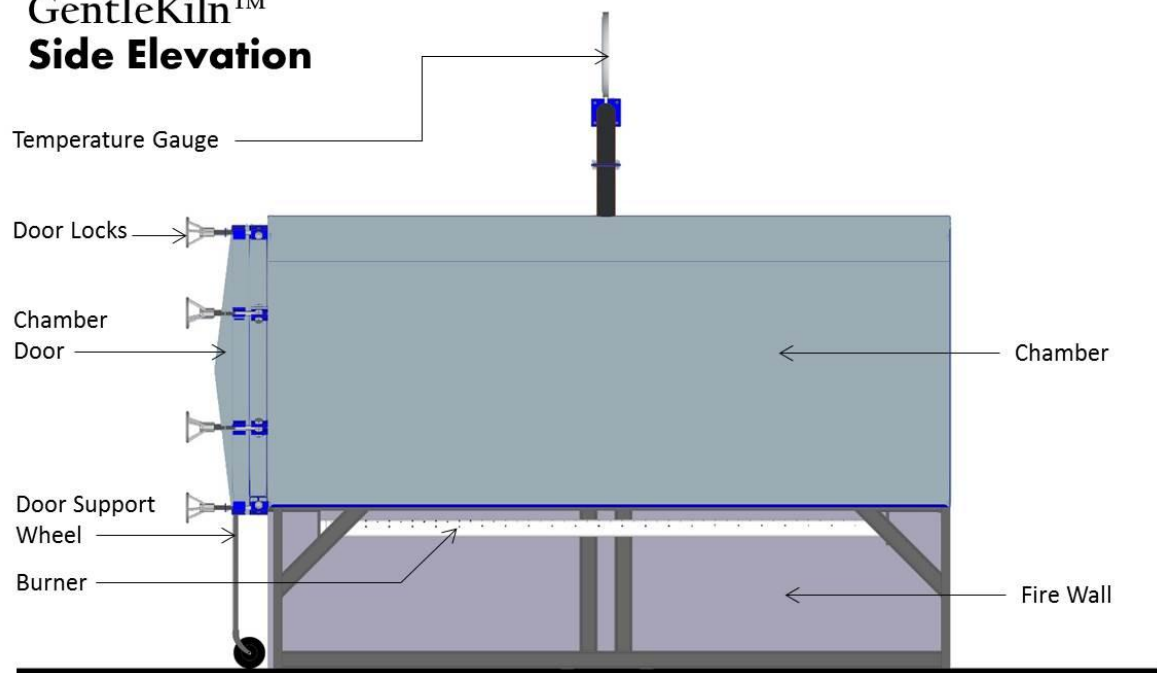
GentleKiln

GentleKiln Design

GentleKiln™ Front Elevation



GentleKiln™ Side Elevation



GentleKiln

Process

- Select Bamboos for Charcoal Production.
- Cut Bamboos horizontally with Bamboo Chop Saw to specific size according to requirements
- Cut Bamboos vertically with Bamboo Circular Saw to specific size according to requirements.
- Weigh Bamboo
- Load Bamboo into GentleKiln at right angles in a checkered pattern
- Light the GentleKiln
- Observe the burner for ignition in accordance with production outcome
- Remove excess fire and maintain temperature level according to production outcome.
- Allow for cool down before opening the GentleKiln to prevent injury through ignition.
- Unload and weigh finished product
- Store, package and label finished product according to organizational requirements.
- Clean and Maintain the GentleKiln for the next cycle.