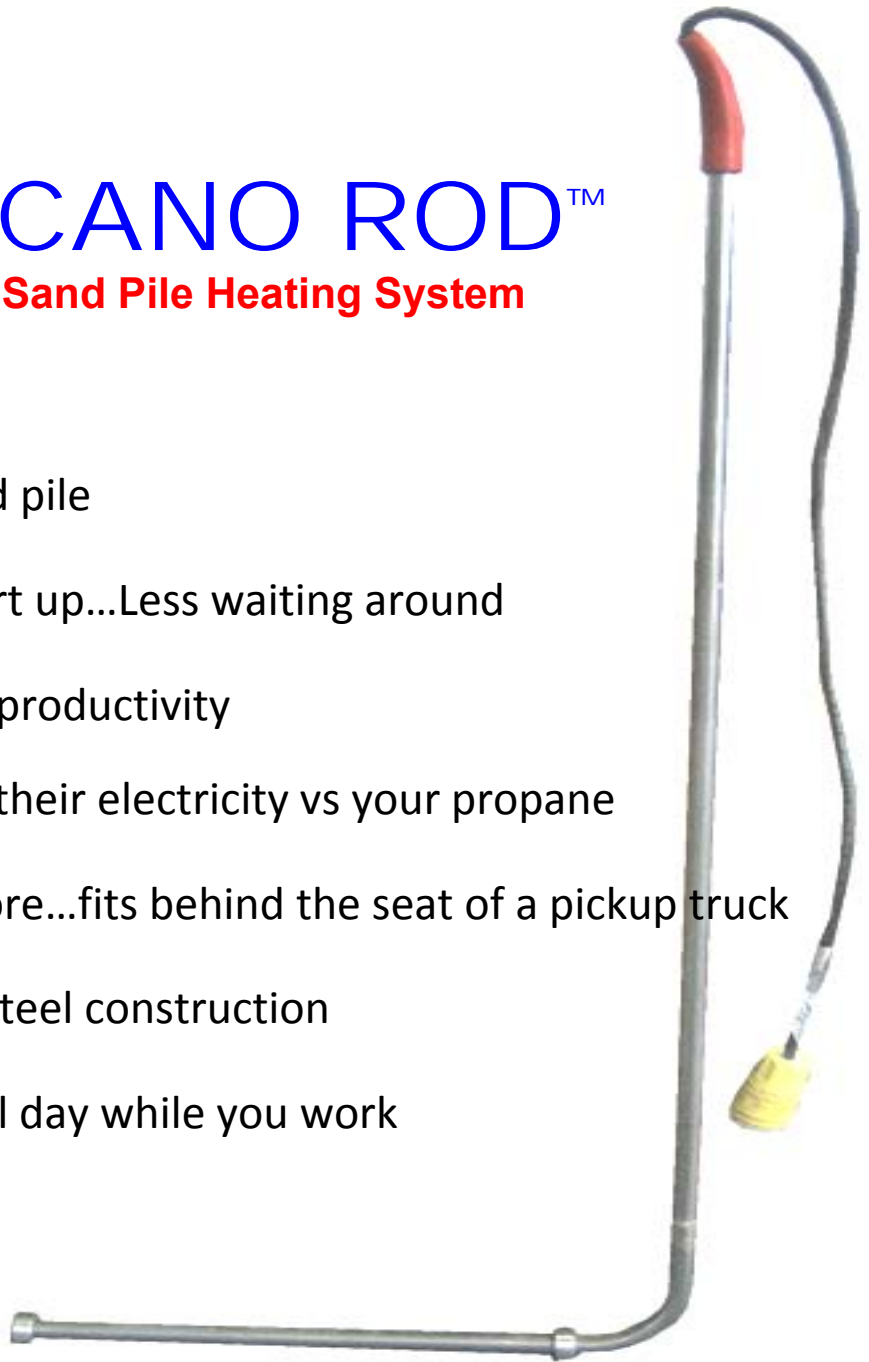


# VOLCANO ROD™

⚡ Electric Sand Pile Heating System

- 🔌 Warm steaming sand pile
- 🔌 Quicker morning start up...Less waiting around
- 🔌 Increases bricklayer productivity
- 🔌 Saves energy costs...their electricity vs your propane
- 🔌 Compact, easy to store...fits behind the seat of a pickup truck
- 🔌 One piece stainless steel construction
- 🔌 Heats at night and all day while you work



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# VOLCANO ROD™

Electric Sand Pile Heating System

## Warm Steaming Sand Pile

Built specifically for wintertime masonry use, the Volcano Rod constantly warms water which in turn warms the sand. Volcano Rod™ has an internal thermostat which will cycle on and off intermittently and will keep up to 5 tons of sand warm when temperatures are as low as 1 degree below zero.

## Quicker Morning Start Up... Less Waiting Around

The unit will pay for itself in less than two cold weeks of saved labor since employees do not spend 1-2 hours each winter day thawing the water and sand pile. Masons can immediately start working because the sand and some water are warm when they arrive at work.

## Increases Bricklayer Productivity

Time saved on a cold morning in an 8 hour workday equals a significant increase in available production time that day.

## Saves Energy Costs...Their Electricity vs. Your Propane

Saves energy cost by using onsite electricity instead of expensive propane heating systems. (The cost is estimated at only \$2.94 per day maximum, based on 7.5¢ per kilowatt hour; actual cost per day may vary.)

## Compact, Easy to Store

Measuring only 16" x 38" x 1" and weighing less than 5 pounds - it can fit behind the seat of a pickup truck!

## One Piece Stainless Steel Construction

Built for ruggedness, ease of transportation, and economy: properly maintained the Volcano Rod should give you years of service.

## Heats At Night and All Day While You Work

Heats all day while you work, three ways: 1) heat from the ground below the sand pile moves up through the sand; 2) heat radiates through the center of sand pile; and 3) heat lost through the top forms a heated air shield between the whole top surface of the sand and the tarp.



Steel drums only!  
Do not use plastic drums!

## Instructions:

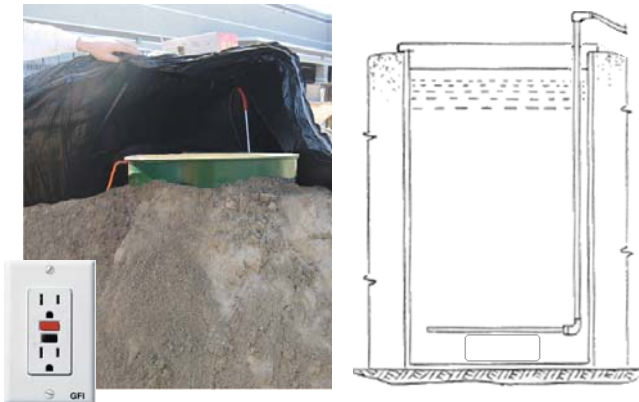
**Step 1.** Dig a hole toward the center of the sand pile large enough to fit a 55 gallon (steel only) drum. Backfill sand around the drum until it nears the top.



**Step 2.** Place 4" of brick or CMU at the bottom of the drum to support the Volcano Rod then fill the (steel only) drum approximately ¾ full of water. It is important to maintain this water level on a continuous basis!



**Step 3.** Insert the Volcano Rod into the drum then plug it in to 120-volt grounded outlet with GFI (ground fault interrupter). Do not energize the unit unless it is immersed in water. This will void the warranty.



**Step 4.** For best results cover the sand pile with one or more insulated blankets (these are sold at most contractor supply stores). Cover over the insulated blanket(s) with a water resistant tarp then weigh down the perimeter.



**Step 5.** Maximum temperature will be reached in approximately 6 to 12 hours and will be maintained as long as the unit is energized.



**NOTE:** In extreme cold conditions, a larger mass can be heated by creating an airspace between the top of the sand and the insulated blanket(s) by placing brick, CMU or rocks on top of the sand before covering it with insulated blanket(s) and a tarp.

Refer to SAFETY PRECAUTIONS!

## Care & Maintenance

Water quality varies from location to location. Some water sources contain significant amounts of calcium, iron and other metallic elements that may react with stainless steel when a Volcano Rod is in use. Such particles can collect on the surface of the rod causing overheating or eventually corroding the stainless steel tubing and fittings leading to a short circuit, resulting in rod failure.



**Follow a few simple steps** to extend the service life of your Volcano Rod:

- **Every morning** upon arrival on the jobsite unplug the Volcano Rod and **allow it to cool**.
- After cooling, remove it from the barrel then **wipe it off** from end to end with a clean rag. This helps remove buildup of incompatible particles inherent in the water supply.
- Place it back into the (steel only) drum filled 3/4 with water then plug it back into 120-volt service protected with **GFI** (ground fault interrupter).

**WARNING!**

## **SAFETY PRECAUTIONS** **PLEASE READ BEFORE USAGE**

- Use steel drums only. Do not use plastic drums!
  - Make sure grounding connections are secure.
  - Use only with a GFI (ground fault interrupter).
- Do not energize in open air. Only plug Volcano Rod™ in after it is placed in a (steel only) drum 3/4 filled with water for safety and warranty considerations.
  - To reduce the risk of burns and shock, be sure the power is off and the heater has cooled before handling.
    - Do not handle cord or plug on heater with wet hands.
  - Never use three-pronged cords which have the third prong broken off.
    - Do not use if cord or plug is damaged, worn or broken.
  - When unplugging, pull on the plug rather than the cord.
    - Use an extension cord capable of carrying 15 Amps.
      - Do not leave unattended.



Manufacturer is not responsible for use other than that intended.

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