



LEADERS IN THERMAL INNOVATION

# VOLCANO RODS

**THE ELECTRIC SAND PILE HEATER** 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.

## **KEEPS SAND PILES FROM FREEZING**

Built specifically for wintertime masonry use, the heater constantly warms water and sand. The unit has an internal thermostat which will cycle on and off intermittently and will keep up to 5 tons of sand and 50 gallons of water hot when temperatures are as low as 1 degree below zero. The cost is estimated at only \$2.94 per day maximum, based on 7.5¢ per kilowatt hour; actual cost per day may vary.

## **SAVES LABOR**

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.

## **INCREASES TIME FOR PRODUCTION**

Masons can immediately start working because the water and sand are hot when they arrive at work. Two hours saved on a cold morning in an 8 hour workday equals a >30% increase in available production time that day.

## **COMPACT SIZE**

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

## **BETTER QUALITY**

No more scorched sand!

## **ONE PIECE, ALL STAINLESS STEEL CONSTRUCTION**

Built for ruggedness, ease of transportation, and economy: the electric sand pile heater should give you years of service.



**Figure 1.** Dig a hole in the center of the sand pile large enough to insert a 55 gallon drum (as in figure 1) or dump sand over the barrel at delivery time. Brick, block, or rock can be heated using the same method.

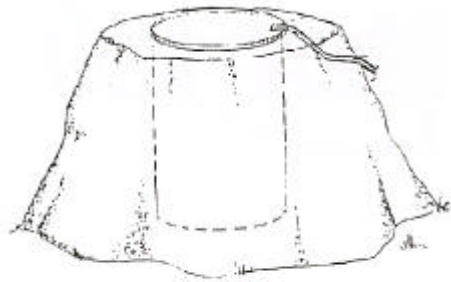


Figure 1

**Figure 2.** Fill the 55 gallon drum approximately 3/4 full of water; insert Volcano Rod (as in figure 2); plug into a 120-volt grounded outlet with ground fault interrupter. heating will begin instantly. Do not energize the unit unless it is immersed in water. This will void the warranty.

**Figure 3.** For best results, cover the sand pile with an insulated tarp. An un-insulated tarp can be used but may not provide enough insulating factor in colder temperatures. If enough sand is not being heated, use a thicker insulating tarp, such as a concrete curing blanket. (These are sold at most contractor supply stores.)

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

In colder temperatures, a larger mass can be heated by creating an airspace between the sand and the insulated tarp by placing bricks, blocks, or rocks on top of the sand before covering it with the tarp. This creates an airshaft for hot air to travel over the whole top surface of the sand pile, thus keeping a larger amount of sand warm. Use a good quality tarp or curing blanket.

The Automatic Sand Heater is now set up and ready to work to provide a workable pile of sand and 50 gallons of hot mixing water ready, day after day.

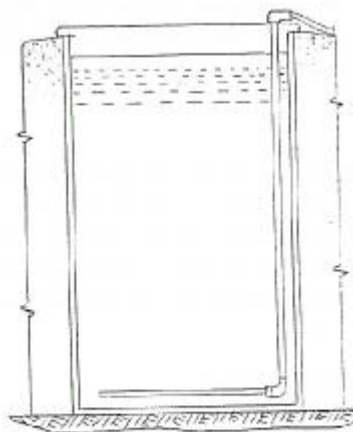


Figure 2

**NOTE:**

Special care should be taken in hard water areas. Hard water deposits can build up on the heated end of the volcano rod. Operating the rod with excessive buildup can cause excessive internal overheating and shorten the life of the unit. It is suggested that you remove this hard water buildup with a mild acidic solution (such as vinegar), or you may use a wire brush to scrape it off. Never use an acidic solution stronger than vinegar for cleaning.

**SAFETY REMINDERS:**

To reduce the risk of burns and shock, be sure the power is off and the heater has cooled before handling.

Always unplug the volcano rod and allow it to cool before attempting to clean the unit.

Any trace of chemical admixtures will void the warranty.

This unit must only be used in STEEL drums in clean water with no additional mixtures.

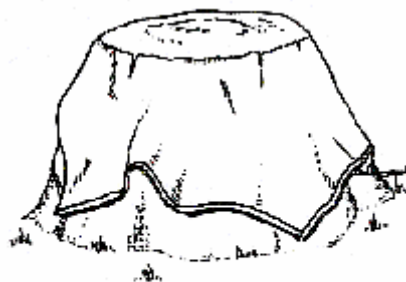


Figure 3





## SAFETY PRECAUTIONS

### PLEASE READ BEFORE USAGE

- To reduce the risk of burns and shock, be sure the power is off and the heater has cooled before handling.
  - Do not leave unattended.
  - Use only with ground fault interrupter.
  - Do not handle cord or plug on heater with wet hands.
  - Do not use if cord or plug is damaged, worn, or broken.
  - When unplugging, pull on the plug rather than the cord.
- Never use three-pronged cords which have the third prong broken off.
  - Make sure grounding connections are secure.
  - Use an extension cord capable of carrying 15 Amps.
- Manufacturer is not responsible for use other than that intended.

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