

# VAPORMITE

The Kemco Vapormite is designed to provide the highest quality concrete steam curing equipment at an economical price. Built to the same high quality standards as our Vaporator series, the Vapormite is available in four sizes, all single speed for the greatest flexibility, ease of operation and minimum maintenance.

## SPECIFICATIONS

| Specification   | Model 0.5             | Model 1.0             | Model 1.5             | Model 2.0             |
|---|-----------------------|-----------------------|-----------------------|-----------------------|
| Output of Unit (mmbtu/hr)                                 | 0.5                   | 1.0                   | 1.5                   | 2.0                   |
| Steam/hr (lbs)  | 500                   | 1,000                 | 1,500                 | 2,000                 |
| Boiler Equivalent (hp)                                    | 15                    | 30                    | 45                    | 60                    |
| Dimensions (L x W x H)                                    | 42" x 66" x 36"       | 78" x 72" x 25"       | 78" x 72" x 25"       | 82" x 72" x 29"       |
| Air Blower Type   | Positive Displacement | Positive Displacement | Positive Displacement | Positive Displacement |
| Electric Motor (hp)                                       | 7.5                   | 15.0                  | 20.0                  | 30.0                  |
| Shipping Weight (lbs)                                     | 1,250                 | 1,850                 | 1,900                 | 2,000                 |
| Water Hardness (grains/gal)                               | < 3                   | < 3                   | < 3                   | < 3                   |
| <b>Utility Requirements</b>                               |                       |                       |                       |                       |
| Natural Gas at 12 psig (cu. ft./hr)                       | 500                   | 1,000                 | 1,500                 | 2,000                 |
| Propane vaporized at 12 psig (gal/hr)                     | 5.5                   | 11.0                  | 16.5                  | 22.0                  |
| Power Supply Required 240/480 VAC at 60 Hz 3-phase (amps) | 22/11                 | 42/21                 | 54/27                 | 80/40                 |
| Water at 40 psig (gal/min)                                | 1                     | 2                     | 3                     | 4                     |
| <b>Utility Connection</b>                                 |                       |                       |                       |                       |
| Fuel  | ¾"                    | ¾"                    | ¾"                    | 1 ¼"                  |
| Water   | ¾"                    | ¾"                    | ¾"                    | ¾"                    |
| Steam Line  | 2 ½"                  | 3"                    | 3"                    | 4"                    |

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|--------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Combustibles (%) (lbs/hr)      | 0 - 0.04<br>0 - 0.01     | 0 - 0.04<br>0 - 0.02     | 0 - 0.04<br>0 - 0.03     | 0 - 0.04<br>0 - 0.03     |
| Carbon Monoxide (PPM) (lbs/hr) | 150 - 300<br>0.07 - 0.13 | 150 - 300<br>0.13 - 0.26 | 150 - 300<br>0.20 - 0.39 | 150 - 300<br>0.26 - 0.52 |
| Oxygen (%) (lbs/hr)            | 3.5 - 5.0<br>17.5 - 26.5 | 3.5 - 5.0<br>34.8 - 49.8 | 3.5 - 5.0<br>52.2 - 74.2 | 3.5 - 5.0<br>69.7 - 99.7 |
| NO <sub>x</sub> (PPM) (lbs/hr) | 11 - 26<br>0.01 - 0.02   | 11 - 26<br>0.02 - 0.04   | 11 - 26<br>0.02 - 0.06   | 11 - 26<br>0.03 - 0.07   |
| CO <sub>2</sub> (lbs/hr)       | 57.7                     | 115.1                    | 172.6                    | 230.2                    |
| SO <sub>2</sub> (lbs/hr)       | 0 - 0.01                 | 0 - 0.01                 | 0 - 0.01                 | 0 - 0.02                 |
| H <sub>2</sub> O (lbs/hr)      | 17.6                     | 35.3                     | 53.0                     | 70.7                     |



## FEATURES

- 98% Fuel Efficiency
- On-Demand Steam Production
- 40 - 60% Fuel Avoidance
- Low Pressure Operation
- PLC-Based System Control Panel
- High Early Compression Strengths

## APPLICATIONS

- Aggregate Bin Heating
- Concrete Pad Heating
- Precast/Prestress Concrete Curing
- Block Kiln Heating