

VAPORATOR

The Kemco Vaporator Series is the highest quality steam generator available for concrete curing. Designed to incorporate the latest proven advances in combustion, electronics and automation engineering, the Vaporator is available as multi-speed units in sizes, ranging from 1.0 to 8.0 million BTU/hr, meeting the needs of even the largest and most complex concrete curing operations.

SPECIFICATIONS

Specification	Model 25/2B	Model 30/2B	Model 35/2B	Model 50/2B	Model 70/4B
Output of Unit (mmbtu/hr)	1.25/2.50	1.50/3.0	1.75/3.50	2.50/5.0	3.50/4.65/5.80/7.0
Steam/hr (lbs)	2,500	3,000	3,500	5,000	7,000
Boiler Equivalent (hp)	75	90	105	150	210
Dimensions (L x W x H)	112" x 52" x 90"	112" x 52" x 90"	112" x 52" x 90"	112" x 52" x 90"	130" x 66" x 102"
Air Blower Type	Positive Displacement	Positive Displacement	Positive Displacement	Positive Displacement	Positive Displacement
Electric Motor (hp)	40	40	50	60	100
Shipping Weight (lbs)	2,300	2,700	2,800	3,200	3,600
Water Hardness (grains/gal)	< 3	< 3	< 3	< 3	< 3
Utility Requirements					
Natural Gas at 12 psig (cu. ft./hr)	2,500	3,000	3,500	5,000	7,000
Propane vaporized at 12 psig (gal/hr)	27.5	33.0	38.5	55.0	77.0
Power Supply Required 240/480 VAC at 60 Hz 3-phase (amps)	134/67	134/67	166/83	196/98	312/156
Water at 40 psig (gal/min)	5	6	7	10	14
Utility Connection					
Fuel	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"
Water	3/4"	3/4"	3/4"	3/4"	1"
Steam Line	4"	5"	5"	6"	8"

EMISSIONS

	Model 25/2B	Model 30/2B	Model 35/2B	Model 50/2B	Model 70/4B
Combustibles (%) (lbs/hr)	0 - 0.04 0 - 0.04	0 - 0.04 0 - 0.05	0 - 0.04 0 - 0.06	0 - 0.04 0 - 0.08	0 - 0.04 0 - 0.12
Carbon Monoxide (PPM) (lbs/hr)	150 - 300 0.33 - 0.66	150 - 300 0.39 - 0.79	150 - 300 0.46 - 0.92	150 - 300 0.65 - 1.31	150 - 300 0.91 - 1.83
Oxygen (%) (lbs/hr)	3.5 - 5.0 87 - 125	3.5 - 5.0 104 - 149	3.5 - 5.0 122 - 175	3.5 - 5.0 174 - 249	3.5 - 5.0 244 - 349
NOx (PPM) (lbs/hr)	11 - 26 0.04 - 0.09	11 - 26 0.05 - 0.11	11 - 26 0.06 - 0.13	11 - 26 0.08 - 0.18	11 - 26 0.112 - 0.26
CO ₂ (lbs/hr)	287.8	345.3	402.9	575.5	805.7
SO ₂ (lbs/hr)	0 - 0.01	0 - 0.02	0 - 0.03	0 - 0.04	0 - 0.06
H ₂ O (lbs/hr)	88.3	106	123.6	176.5	247.3



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