

# HIGH VOC THERMAL OXIDIZER

## TRAILER MOUNTED HIGH-VOC OXIDIZER SYSTEM, MODEL CEF-5

The CEF-5 rental unit is a trailer-mounted, natural gas or propane thermal oxidizer designed to treat hydrocarbon-contaminated air streams. This system can handle both low VOC-contaminated streams at <50% LEL and high-VOC streams at >50% LEL. The unit and controls can also be converted to operate with a catalyst module insert, which lowers the required combustion temperature and fuel cost.



This oxidizer is designed to operate completely independent of the process and is equipped with an enable-disable signal interface in the system control panel.

### SPECIFICATIONS:

<b>Max. Air Flow Capacity</b>	3,050 SCFM
<b>Min. Air Flow Capacity</b>	800 SCFM
<b>Max. Inlet Temp. from Source</b>	300° F
<b>Burner Capacity</b>	4,800,00 BTUH
<b>Inlet Connection</b>	10" DIA
<b>Stack Height</b>	18' 7" Above Ground
<b>Stack Diameter</b>	30"
<b>Max. Thermal Operating Temp.</b>	1800° F
<b>Optional Catalyst Module</b>	Precious Metal Monolith
<b>Catalyst Operating Temp.</b>	650° F
<b>Max. Exit Catalyst Temp.</b>	1200° F
<b>Max. Hydrocarbon Throughput</b>	 <b>High-VOC Mode</b> ~5 MMBTUH / 750 SCFM <b>Thermal Mode</b> <50% LEL <b>Catalytic Mode</b> <25% LEL
<b>Oxidizer Process Blowers</b>	7.5 HP
<b>Time to Reach Operating Temp.</b>	15 min from Cold Start
<b>Power Requirements</b>	460/3/60, 26 FLA
<b>Trailer</b>	16,000 lb Dual Axle

### BASE SYSTEM COMPONENTS:

- Epoxy Coated Carbon Steel Outer Shell
- High Temperature Ceramic Insulation
- Trailer Mounted
- 2 Oxidizer Process Blowers w/ VFDs
- Flame Arrestor for low VOC process
- Flame Trap for high VOC process
- Natural Gas or Propane Primary Burner
- NFPA Compliant Gas Train
- Stainless Steel Exhaust Stack
- UL Listed, Nema 4 Control Panel
- PLC w/ First Out Fault Finder
- Thermocouple Temperature Control
- Digital Chart Recorder
- Automatic Purge/Process Damper
- Air Flow Sensor and Gauge
- Differential Pressure Transmitter
- Instrumentation Package



