

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:

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



