

FALCO 100 SPECIFICATIONS



The FALCO 100 electric catalytic oxidizer treats air streams contaminated with volatile organic compounds. The catalyst provides VOC destruction efficiencies up to 99.5%. Operation, including startup, is fully automatic. Control system accurately regulates input loading and temperatures. The controls adjust a FALCO Vapor Control Valve (VCV) to maintain safe maximum input concentration. Automatic shutdown results if temperatures exceed limits.

A shell and tube heat exchanger provides efficient heat recovery and a bypass valve allows adjustment of heat recovery. High heat recovery minimizes energy use during operation at low input vapor concentration. Low heat recovery enables operation at high vapor concentration. At 1,050 ppmv (Gasoline) and 100 scfm, sufficient heat is recovered to preheat the inflow without supplementary electric energy.

This compact unit fits into small spaces, making it perfectly suited for soil vapor extraction. The economical and durable FALCO 100 integrates with a wide variety of vapor extraction systems and is easily moved from site to site. The FALCO 100 has been installed at over one thousand remediation sites globally since 1990.



- **CAPACITY** 40-120 scfm
- **MAXIMUM INPUT LOADING** 80 lb/day petroleum hydrocarbons @ 120 scfm
- **VAPOR CONTROL** FALCO Vapor Control Valve (VCV)
- **CATALYST DESTRUCTION EFFICIENCY** Up to 99.5%
- **CATALYST TEMPERATURE RANGE** 330-620°C (626-1148°F)
- **CATALYST** Stainless steel monolith. Alumina wash coat and Platinum and Palladium catalyst
- **HEAT EXCHANGER** 304 Stainless steel shell and tube. 67% thermal efficiency @ 100 scfm (adjustable)
- **HEATER (Electric)** 7.3 kW, Solid state switching (SCR power control) with high limit
- **CONSTRUCTION** 304 stainless steel and aluminum
- **WEIGHT** 285 lb. with flame arrestor
- **DIMENSIONS** 6'8" high X 50" long X 24" wide
- **POWER REQUIREMENTS**
Heater: 30.5 amp @ 240 VAC single phase
Optional Heater: 17.5 amp @ 415 VAC single phase

Controls: 120 VAC, 3 amp, 60 Hz
Optional: 120 VAC, 3 amp, 50 Hz
- **APPROVALS** Factory Mutual Approved for use in Class 1, Div 2, Group D, T2C Hazardous locations extending up to 18" above the ground

FALCO

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