

FALCO 600 SPECIFICATIONS



The FALCO 600 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. Controllers accurately regulate input loading and temperatures. The controls adjust a FALCO Vapor Control Valve (VCV) to maintain safe maximum input concentrations. Automatic shutdown results if temperatures exceed limits.

A spiral plate heat exchanger provides efficient heat recovery and a bypass valve allows for adjustment of heat recovery. Low heat recovery enables operation at high vapor concentration. High heat recovery minimizes energy use during operation at low concentration. At 785 ppmv (gasoline) and 600 scfm, sufficient heat is recovered to preheat the inflow without supplementary electric energy.

The FALCO 600 has a massive catalyst volume for its rated capacity, providing longer life and poison resistance than monolith type catalysts. The heat exchanger, heaters, and catalyst are integrated into an amazingly compact system which is easily installed and operated.

- **CAPACITY** 300-700 scfm
- **MAXIMUM INPUT LOADING** 430 lb/day petroleum hydrocarbons @ 700 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** Packed bed 4.9 cubic feet. Platinum on 1/8" ceramic beads is standard. Other catalysts available.
- **HEAT EXCHANGER** 304 stainless steel spiral plate. 73% thermal efficiency at 600 scfm (adjustable)
- **HEATER (Electric)** 36 kW, Solid state switching (SCR power control) with high limit
- **CONSTRUCTION** 304 stainless steel heat exchanger. Aluminum heat guarding. Stainless steel frame
- **WEIGHT** 1,400 lb. with flame arrestor
- **DIMENSIONS** 87" high (excluding 5" stack) X 78" long X 40" wide
Fits in the back of a pick-up truck
- **POWER REQUIREMENTS**
Heater 3Ø:
75 amp @ 208 VAC (27 kW), 87 amp @ 240 VAC (36 kW)
Optional:
44 amps @ 480 VAC (36 kW)
Optional Canada:
80 amps @ 240 VAC (33 kW)
40 amps @ 480 VAC (33 kW)

Controls: 120 VAC, 60 Hz
Optional: 120 VAC, 50 Hz
- **APPROVALS** Third party certification for use in Class 1, Div 2, Group D, T2C
Hazardous locations extending up to 30" above the ground.



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