

# FALCO 300 SPECIFICATIONS



The FALCO 300 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 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 input vapor concentration. At 780 ppmv (Gasoline) and 300 scfm, sufficient heat is recovered to preheat the inflow without supplementary electric energy.

The FALCO 300 has a massive catalyst volume for its rated capacity, providing longer life and poison resistance than monolith type catalysts. If necessary, the catalyst can be replaced on site in one hour.

- **CAPACITY** 100-350 scfm
- **MAXIMUM INPUT LOADING** 250 lb/day petroleum hydrocarbons @ 350 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 2.5 cubic feet. Platinum on 1/8" ceramic beads standard. Optional catalyst available for chlorinated solvents.
- **HEAT EXCHANGER** 304 Stainless steel spiral plate. 73% thermal efficiency @ 300 scfm (adjustable)
- **HEATER (Electric)** 27 kW, Solid state switching (SCR power control) with high limit
- **CONSTRUCTION** Stainless steel and aluminum
- **WEIGHT** 885 lb. with flame arrestor
- **DIMENSIONS** 73" high (excluding 5' stack) X 70" long X 29" wide  
Fits in the back of a pick-up truck
- **POWER REQUIREMENTS**  
HEATER 3Ø: 56 amp @ 208 VAC (20.3 kW) or 65 amp @ 240 VAC (27 kW)  
*Optional:* 33 amp @ 480 VAC (27 kW) or 38 amp @ 415 VAC (27 kW)  
HEATER 1Ø: 56.5 @ 240 VAC (13.5 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 41" above the ground.



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