

FALCO 300 with VFD controlled 10hp dilution blower



The FALCO 300 with dilution blower and variable frequency drive is the ideal solution for industrial vapor treatment. Process vapors are captured and efficiently destroyed by catalytic oxidation.

Startup and operation are fully automatic. Temperature controllers accurately regulate inlet concentrations by adjusting dilution blower speed. Speed is increased during high mass flow of hydrocarbon and slows during low mass flow or at standby to save energy. Automatic shutdown results if temperatures exceed limits. The FALCO 300 has an efficient spiral plate heat exchanger. A bypass valve automatically increases heat recovery during low concentration operation and standby, and reduces heat recovery to accommodate high concentrations.

The FALCO 300 has a massive catalyst volume for its rated capacity, providing longer life and poison resistance than monolith type catalysts.

Components are mounted on frames joined by forklift beams. One frame supports the blower, VFD, and accessories. The second frame supports the FALCO 300. This low profile system weighs only 1,460 lb. and is 50" wide, 73" long, and 74" tall. This standardized package is easily installed and operated and can be integrated into a wide range of process vapor streams.

Packaged system includes the following:

- FALCO 300 Catalytic Oxidizer
- 10 hp, three phase, explosion proof, regenerative blower
- Square D variable frequency drive in ventilated NEMA 3R enclosure
- Solberg inline process air and dilution filters
- Stainless steel vacuum and pressure gauges
- Stainless steel mounting rails with forklift pockets
- Mounting frames, factory piping and wiring between FALCO, Blower, and VFD
- Factory Mutual approval for use in Class 1, Division 2, Group D Hazardous Locations



FALCO 300 specifications:

- Capacity 100-350 scfm (dilution air + process flow)
- Maximum input loading 0.17 lb/min VOCs @ 19,000 BTU/lb (3230 BTU/min)
- Destruction Efficiency Up to 99.5%
- Catalyst operation range (standard) 330-620°C (626-1148°F)
- Catalyst Packed bed 2.5 cubic feet. Platinum and Palladium on 1/8" ceramic beads is standard. Optional catalysts are available
- Heat exchanger Stainless steel spiral plate. 74% efficient at 150 scfm
- Heater (Electric Solid State Control) 56 amp @ 208V (20.3 kW) or, 65 amp @ 240V (27 kW) or, 32.5 amp @ 480V (27 kW)
- Construction 304 Stainless steel and aluminum
- Power requirements Heater and Blower: 3 phase 480V, *Optional* 3 phase 208-240V, Controls: 120V

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