

# Fugitive Emission Control Unit

Eliminates harmful emissions from exiting analyzer and GC vents

## Product Features

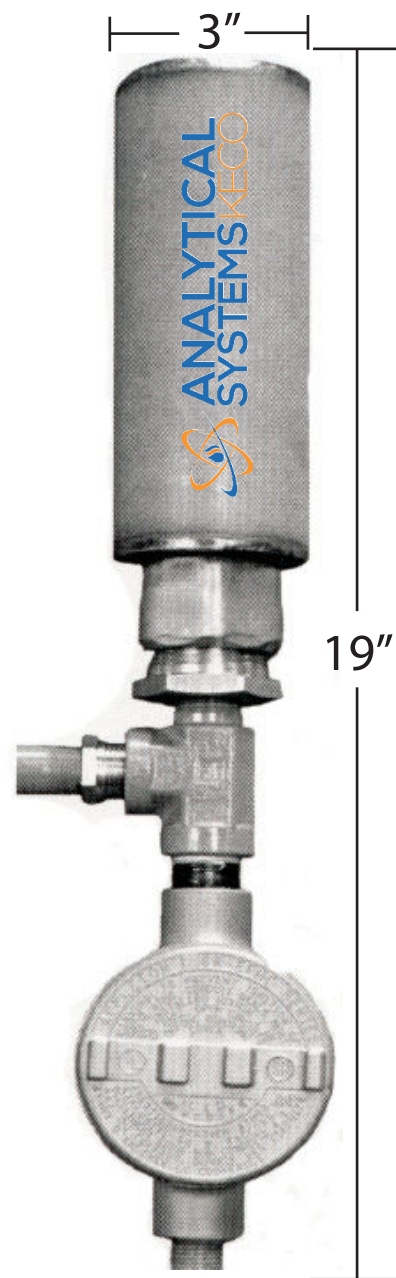
- Eliminates need for flare
- Easily connects to analyzer and GC vents
- Small package (19" high, 3" dia.)
- Ensures no back-pressure on analyzer vents
- Explosion proof packaging for hazardous areas
- Provides stable outlet vent pressure to atmosphere

## Product Description

Operation of chemical, refineries, gas processing plants, and pipelines often requires the use of chemical analysis instrumentation. These instruments frequently require a pressure reference to atmospheric pressure for operation. This reference is frequently achieved by venting the sample to the atmosphere. These vented samples, generally called fugitive emissions, are air pollutants and contribute to worldwide pollution problems.

The focus of this technology is the use of a catalytic combustion process to oxidize the vented sample while maintaining the atmospheric pressure reference. The unit utilizes a continuous heat source to allow the oxidation process to be effective on 99% of fugitive emissions. Hydrocarbons are converted to CO<sub>2</sub> & water vapor.

The packaging of the system is designed to provide explosion proof protection (Class I Div. I Grp. B, C, & D). This allows application of the technology in hazardous locations.



## Typical Specifications

### FLOW RATE

- 1 liter / min ( 0.035 SCFM maximum OR
- 750 BTU / hour maximum

### ANALYTICAL PERFORMANCE

- End product: water vapor, CO<sub>2</sub>  
(Nil NO<sub>x</sub> formation due to low temp. operation)
- Backpressure: nil @ 1 liter/min.  
(<0.1" H<sub>2</sub>O @ 3 liters/min.)
- Catalyst life: >2 years (for preventative maintenance we recommend catalyst replacement each year of operation to ensure efficiency of operation)

### PACKAGING

- Electrical class.: Designed for Class 1, Division 1 Groups B, C, & D; Zone 1 Temp T3B, Ex Group IIB & H2
- Materials of construction: Stainless steel, Aluminum, Platinum Catalyst
- Sample inlet connection: 3/4" NPT-F

### TEMPERATURE RANGES

- Surface Temp. Class: T6-185°F (T4 - 275° F maximum operation)

### WEIGHT

- Approx. 10 lbs; 4.5 kg

### DIMENSIONS

- 19" X 3" dia.

### POWER CONSUMPTION

- PN: Fugitive Emission Control 24 24 VDC @ 100 watts (max.)
- PN: Fugitive Emission Control 110 110-120VAC
- PN: Fugitive Emission Control 110 210-220VAC

Replacement catalyst cartridge PN: T0146-900



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