

# E.DOC-TH

EFFULENT THERMAL DYNAMIC OXIDATION CHAMBER



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## ***THERMAL / DYNAMIC ABATEMENT***

Thermal abatement brings the gases to auto ignition temperatures. Once this is reached the gases become pyrophoric. Dynamic oxidation is the safest and most cost effective abatement solution for pyrophoric gas abatement. It provides the most reliable abatement method at the lowest capital and operation cost.

The Thermal units can be fitted with a water scrubber (E.DOC-SC) to handle any water soluble gases, or a filter unit (PAS-IF) to handle solids.

## ***BENEFITS***

- Minimal down time
- High level of safety
- Uses ambient air for oxidation
- No fuel required
- Electric thermal control, up to 1050C

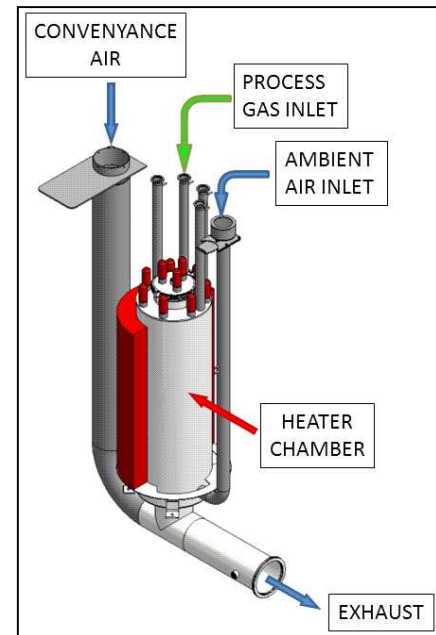
## ***PRODUCT FEATURES***

- Thermal destruction, and oxidation
- Innovative solids handling
- Low airflow interlock to shut off or bypass gas inlets
- UL listed components
- Stainless steel construction
- Hasteloy chamber for 1050 unit

PATENTED EMISSIONS REDUCTION EQUIPMENT

## PRINCIPLES OF OPERATION

- The process gas enters the system through the process inlets ( 2-4 inlets ) located at the top of the unit.
- The process gas flows down into the heat chamber where high temperature destructs the gases into their respective constituents
- The gas stream travels through the dynamic oxidation stage where it is mixed with ambient air. This mixing causes oxidization of pyrophoric gases.
- A second air stream enters just after this stage for cooling the heated gases, and to convey by-products to a scrubber unit or filter units.



## E.DOC-TH SPECIFICATIONS

Model	E.DOC-TH-850	
Total Hazardous Gas Flow:	240 SLM	total
Number of Process Inlet:	4	
Process Inlet Connection:	KF 40, 1.5"	vacuum flange
Exhaust Connection:	ISO 100, 4"	vacuum flange
Exhaust Flow (Process)	-5 mbar (-2" in H <sub>2</sub> O)	30-70 CFM
Exhaust Flow (Conveyance)	-5mbar (-2:in H <sub>2</sub> O)	120-200 CFM
Ventilation Flow:	-5 mbar (-2" in H <sub>2</sub> O)	100-150 CFM
Exhaust Connection:	ISO 80, 3"	
Line Voltage:	220 VAC, 50/60Hz, 3 wire , with neutral and ground, 60A	
Water:	N/A	
Flow:	N/A	
N2:	>5.2 bar (>75 psi)	
Usage:	Interface signal for customer's control/ monitoring system	Warning and Alarm
Interface Type:	Relay dry contact	
E.DOC-TH Unit:	42" x 42" x 76"	