

E.DOC-SC

EFFLUENT DYNAMIC OXIDATION CHAMBER



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CORROSIVE / PYROPHORIC ABATEMENT

Dynamic Oxidation coupled with a water scrubber is the safest and most cost effective abatement solution for pyrophoric, and water soluble gases.

All wetted parts are coated with a proprietary corrosion resistant material. All construction material is non combustible to eliminate the risk of fire.

PRODUCT FEATURES

- SEMI S2/CE certified, UL listed components
- PLC controls
- Teflon coated stainless steel construction
- Non-combustible construction
- Low air flow interlock to shut off hazardous gas
- >99% DRE of NH₃ up to 35LPM
- >98% DRE of NH₃ up to 130LPM
- Other water soluble gases such as “HCl, TEOS, and HBr” are abated at 98% DRE or higher.
- Diaphragm pump for overhead drain available
- E.U. Standards available
- Outdoor version available

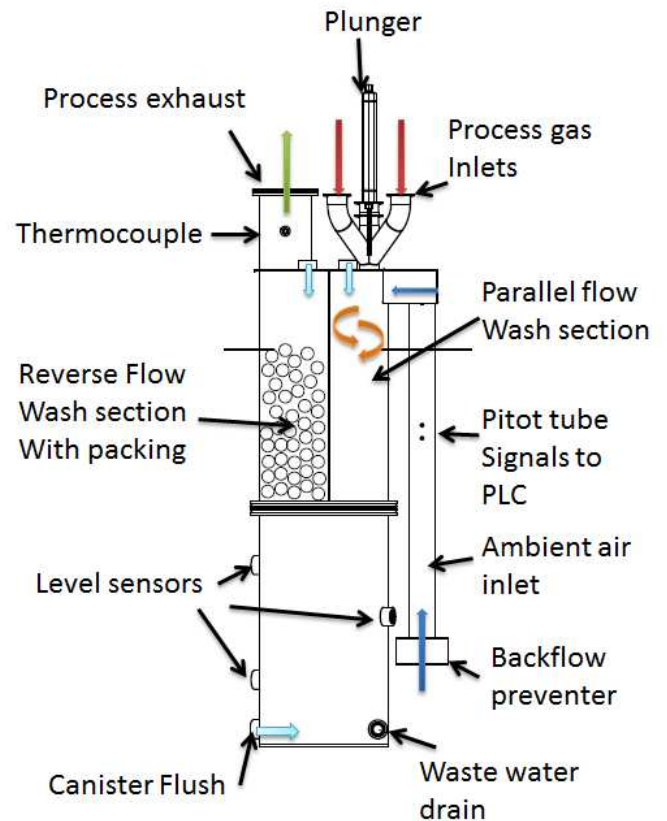
BENEFITS

- Minimal down time
- Low capital & operating costs
- Highest level of safety
- Low maintenance
- Uses ambient air for oxidation
- Minimal water usage
- Non-combustible construction

PATENTED EMISSIONS REDUCTION EQUIPMENT

PRINCIPLES OF OPERATION

- The process gas enters the E.DOC-SC through the process inlets located at the top of the unit.
- The process gas then flows down into the reaction chamber where it is mixed with the incoming ambient air.
- A self-cleaning mechanism will stroke through the inlets and clean any solids that build up during the oxidation process.
- The solid particles generated are washed down into the collection canister.
- The remaining water soluble gas is then scrubbed in the reverse flow packed bed scrubber section.
- The canister flush spray nozzle is PLC actuated to keep the canister free of any solids build up.



E.DOC-SC SPECIFICATIONS

Model	E.DOC-SC-10	E.DOC-SC-10-P	P = packed bed
Hazardous Gas Flow	18 SLM	35 SLM	Pyrophoric and toxic
Total Gas Flow	600	725	Larger systems available
Number of Process Inlet	2 Inlet, or 4 Inlet		KF 50, 1.5"
Process Exhaust	10-40 CFM		ISO 100, 4"
Cabinet Exhaust	ISO 80, 3"	ISO 80, 3"	50 to 80 CFM
Electrical Requirements	120 VAC, 60 Hz, 1 phase, 2 A		E.U. Standards available
Water Requirements	City water, DI water		1 to 4.2 GPM
N2 Requirements	>75 psi		.2 CF/H
Tool Interface	Interface signal for customer's control/monitoring system		Relay dry contacts
Dimensions	22" x 22" x 68"		Larger systems available
Shipping Weight	258 lbs	280 lbs	Larger systems available