



Chemodyne-14



Chemodyne-18

PYROPHORIC / TOXIC GAS

ABATEMENT

This P.O.U. system is intended to abate pyrophoric gases mixed with toxic gases such as SiH₄ and AsH₃. Dynamic Oxidation coupled with suitable chemical agents is the safest and most cost effective solution for pyrophoric and toxic gas abatement.

PRODUCT FEATURES

- Variety of agents to abate target gases
- Non-combustible particle filter
- Low airflow interlock to shut off hazardous gas
- Cabinet exhaust for secondary containment
- Non-combustible construction
- Gas detection / optional
- UL listed components
- >99% DRE, <TLV can be provided
- E.U. Standards available
- Outdoor option available

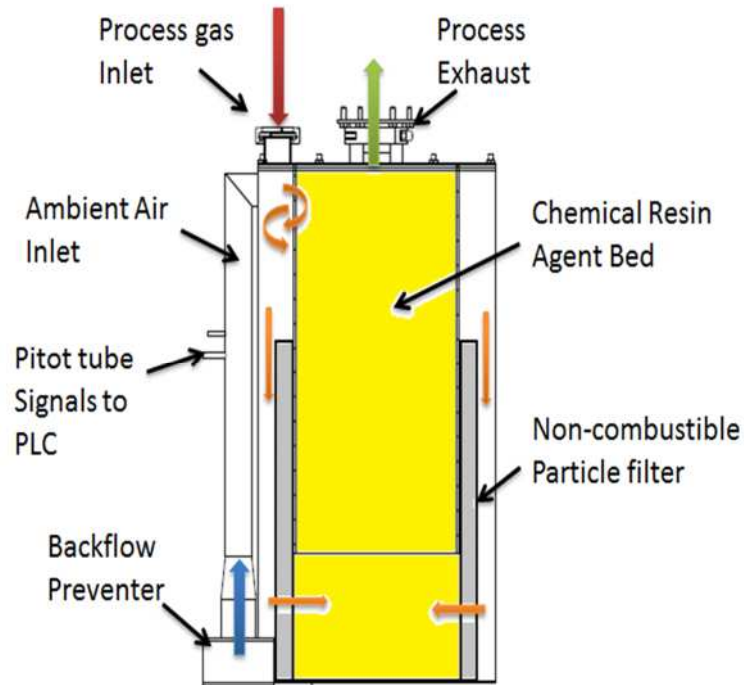
BENEFITS

- Minimal down time
- Low capital & operating costs
- Highest level of safety
- Uses ambient air for oxidation
- Long agent life
- Non-combustible particle filter

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PRINCIPLES OF OPERATION

- The process gases enter the Chemodyne through the process inlets located at the top of the unit.
- The process gas then flows into the reaction chamber where it is mixed with the incoming ambient air (if applicable).
- The process gas is then drawn into the particle filter before entering the system's chemical resin bed.
- The resin mix is prepared by PAS to abate the specific process gases. The selection and mixture of the chemical agents are based on the process definition form provided by the customer. MSDS will be provided upon request.
- Over temperature monitoring is located in the resin bed
- Optional gas detection for exhaust.



CHEMODYNE SPECIFICATIONS

Model	Chemodyne-14	Chemodyne-18	
Target process gases	BCl ₃ , Cl ₂ , HCl, HBr, NH ₃ , DCS, B ₂ H ₆ , PH ₃ , SiH ₄ , AsH ₃ , SiH ₂ Cl ₂		Contact factory for other gases
Max Toxic Gas Flow	100SCCM	250SCCM	Larger systems available
Max Pyrophoric Gas Flow	1LPM	3LPM	Larger systems available
Total Process Flow	50 LPM	100 LPM	Larger systems available
Number of Process Inlet	2		KF 25, 1"
Process Exhaust	10-50 CFM		ISO 80, 3"
Cabinet Exhaust	50 CFM		KF 50, 2"
Electrical Requirement	120 VAC, 60 Hz, 1 phase, 2 A		E.U. standards available
Tool Interface	Interface signals for customer's control/monitoring system		Relay dry contacts
Dimensions	17" x 20" x 52"	22" x 22" x 68"	Larger systems available
Shipping Weight	190 lbs	275 lbs	Larger systems available

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