

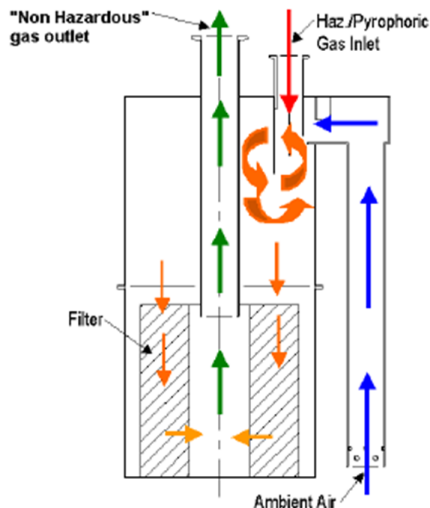
# Exhaust Gas Scrubbers

## *Pyrodyn* Pyrophoric Gas Abatement Chamber Dynamic Oxidation with Mechanical Filtration

Using a combination of Dynamic Oxidation and Mechanical Filtration, the *PYRODYN* pyrophoric gas abatement chamber effectively and safely abates pyrophoric gases, such as silane, through a low cost, easy to maintain abatement unit.

### Principles of Operation:

- Process gas enters the *PYRODYN* through the process inlets located at the top of the unit.
- The process gas flows into the reaction chamber where it is mixed with incoming ambient air creating the reaction which oxidizes the gas to producing a safe effluent.
- A self-cleaning mechanism strokes through the inlets which cleans any solids that build up during the oxidation process.
- The solid particles generated through the oxidation reaction are trapped in a non-combustible, stainless steel filter. This filter is easily cleaned or replaced at different intervals depending on the process application.



For high Silane flows, the *PYRODYN* is offered in a centrifugal separator design that forces the sand down and out the bottom of the unit. The outlets of these units can be linked together to a remote filtration system. The silica dust or “sand” produced by the separators gathers in channels and is easily and safely removed from the filter housing through a side access panel.

*Critical Systems PYRODYN abatement units come with a One Year, Customer Satisfaction Warranty!*



Product Data — *PYRODYN* Pyrophoric Gas Abatement Chamber

### ***PYRODYN* Features:**

- Up to 4 Process Inlets
- Stainless Steel Construction
- Connectivity to Process Tool
- Airflow Interlock
- Semi S2/CE Certified
- UL Listed Components
- PLC Monitoring & Control
- *No flammable gas for incineration*

