



Jupiter Scientific

Europa Dry Scrubber

Jupiter Scientific's Europa Dry Scrubber is a point-of-use exhaust treatment system with a broad range of process gas scrubbing capability. The Europa system employs Jupiter Scientific's Europa Scrubbing Cartridges to offer the lowest emissions of any scrubber available today. In all cases where the Europa is employed it offers guaranteed scrubbing of the target gases to levels below Threshold Limit Values.

Key Features of the Europa Dry Scrubbing System

- Mobile platform for low cost/high volume abatement where needed
- Employs Europa Canister for guaranteed sub TLV emissions
- 300-500 CFM Capacity (depending upon application)
- Wall mounted monitoring box or Cabinet
- Area and exhaust gas monitoring system to ensure safety and compliance
- Interlocks to ensure Europa is operating within specifications
- Real time permanent exhaust concentration data logging
- Ethernet communications to end user
- Tool interlock connections to prevent reactor operation when Europa is offline
- Visual and audible alarms
- Integrated temperature monitoring
- Integrated pressure monitoring



The Europa Dry Scrubbing system employs chemisorption to abate a wide array of industrial emissions. Our chemisorbents ensure that gases have the fastest rate of mass transfer to the adsorbent. The chemisorbents also convert pollutants to stable solids that will not desorb at a later time.

Europa cartridges are custom blended to each application to ensure maximum abatement of all process gases. This guarantees that customers will achieve compliance for all gases in their process recipe. Custom blending also ensures that adsorbents are not poisoned or fouled since potential poisons and fouling agents are removed before they can harm adsorbents. In addition, the sophisticated control system of the Jupiter Scientific Europa maintains a history of all scrubber alerts, temperatures, and exhaust concentration to verify performance and compliance with regulations.

Partial List of Gases Abated By Europa Scrubbing Canisters (abated to less than ½ OSHA PEL)

ACID GASES and HALOGENS	HYDRIDES	SEMICONDUCTOR & SOLAR	ORGANICS
Bromine	Ammonia	III-V	Methane
Boron Trichloride	Arsine	II-VI	Alcohols
Boron Trifluoride	Diborane	MOCVD	Propane, Butane, other Alkanes
Chlorine	Germane	PECVD	Acetylene
Fluorine	Phosphine	Tungsten Hexafluoride	Metal Organics
Hydrogen Bromide	Hydrogen Selenide	CIGS	
Hydrogen Chloride	Hydrogen Sulfide	NO, NO ₂	
Hydrogen Cyanide	Silane	Nitride Deposition	
Hydrogen Fluoride	Stibine		
Silicon Tetrachloride			
Silicon Tetrafluoride			
Sulfuric Acid			

