



Advanced Air Technologies, Inc.
Air Pollution Control Systems

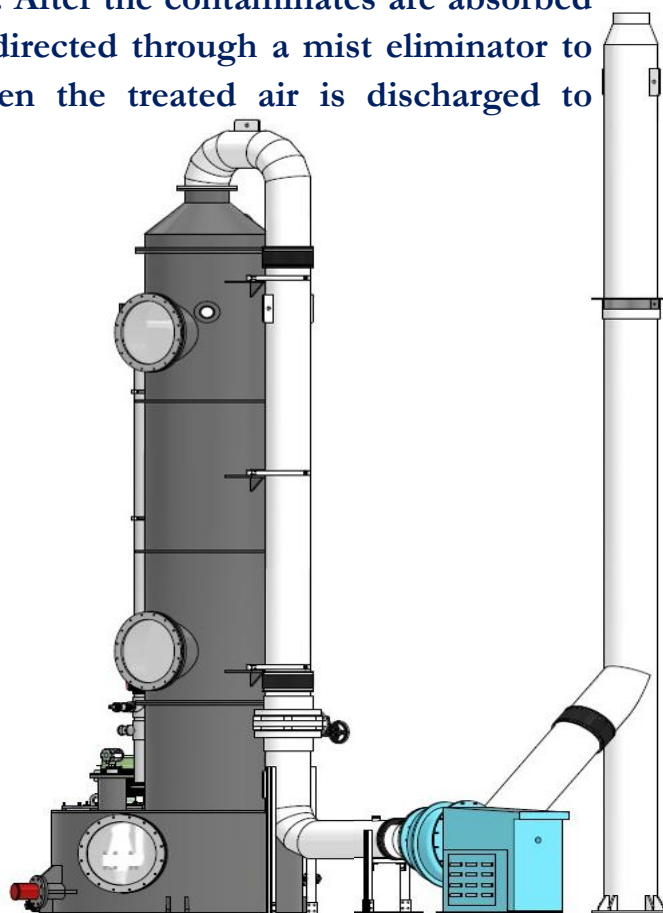
Orion Series Scrubber

The Orion Series packed bed scrubber is among the most utilized air pollution control abatement technology, based upon its versatility with a vast array of contaminant removal, processes, and industries served. The Orion Series packed bed scrubber can be in a horizontal or vertical configuration to accommodate footprint or height restrictions.

Inlet air enters the packed bed scrubber through the inlet, where the gas stream is introduced to the scrubber liquid and packing media. The scrubber media uses a means of mass transfer and liquid holdup to absorb the contaminants into the scrubber liquid. The fouled scrubber liquid is either discharged to wastewater or continuously adjusted to allow for continuous duty operation. After the contaminants are absorbed into the scrubber liquid, the moist air is then directed through a mist eliminator to remove the droplets within the airstream, then the treated air is discharged to atmosphere.

Industries and Processes Served

Metal Finishing
Pharmaceutical
Food Processing (rendering)
Wastewater
Chemical Processing
Petrochemical
Semiconductor
Electronic Manufacturing
Emergency Scrubber
Graphite Purification
Battery Manufacturing
Odor Control Processes



Materials of Construction

Polypropylene

PVC

CPVC

FRP

306/316 Stainless Steel

Hastelloy

Custom Designed

Every Orion Series scrubber is custom designed to meet or exceed your required removal efficiencies, while also meeting or exceeding your footprint and operational requirements.

Efficiency

The Orion series scrubber typically achieves removal efficiencies in excess of 99.0%, depending upon application.

Complete Packages Offered

Exhaust Fans

Instrumentation and Control Packages

Interconnecting Exhaust Duct

Skid Mounting

Exhaust Stacks

Chemical Feed Systems for pH/ORP Adjustment.

Typical Contaminates

Sulfur Dioxide (SO₂)

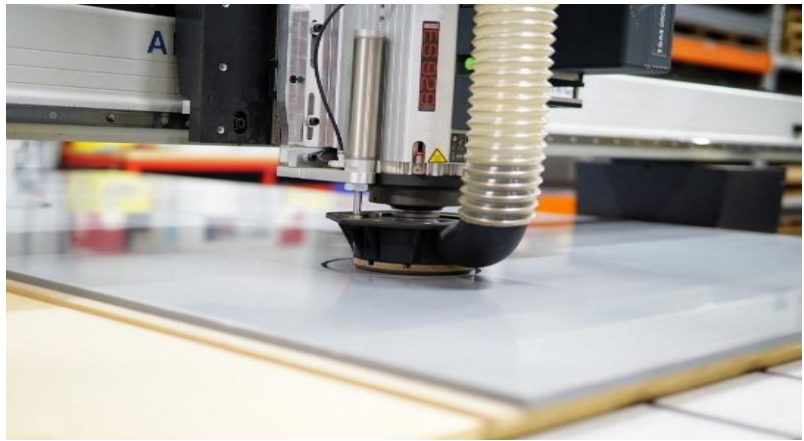
Chlorine (Cl₂)

Hydrogen Fluoride (HF)

Nitric Acid (HNO₃)

Hydrogen Sulfide (H₂S)

Ammonia (NH₃)



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