MONROE ENVIRONMENTAL

Water & Wastewater Treatment | Air Pollution Control

Air Pollution Control

Monroe Environmental® provides air pollution control technologies for a variety of air/gas treatment processes at nearly every type of industrial manufacturing plant and municipal treatment works, including those in the following fields:

Automotive Manufacturing | Chemical Processing | Food Processing | Glass & Plastics
Mining & Metals | Oil & Gas | Pulp & Paper | Steel Processing | Utilities/Energy | Waste Management

Packed Bed Scrubbers

Fume Scrubbers remove acids, soluble gasses, chemicals, and odor

- FRP, PVC, CPVC, polypropylene, PVDF, stainless steel, and specialty alloys
- Removal of H_2S, HCl, HF, SO_2, NH_3, HCN, HNO_3, formaldehyde, and many other soluble pollutants
- Vertical tower and cross-flow designs

Venturi Scrubbers

Wet-type Dust Collectors for PM (Particulate Matter) reduction

- Boiler, kiln, incinerator, and dryer gas
- Glass fiber and synthetic resins
- Explosive dusts/metals
- Machining or grinding dusts
- Wet, tacky, sticky solids
- Low profile Dual Throat Venturi Scrubber available

Multi-Stage Wet Scrubbers

Complete scrubbing solutions for multi-pollutant emissions reduction

- High temperature and volatile chemical processes
- RTO, boiler, dryer, kiln, and incinerator exhaust scrubbing
- PM (Particulate Matter) removal and acid gas neutralization

Quench Towers

Temperature control and conditioning of process gasses

- Evaporative cooling, condensing, and heat transfer
- Thermal treatment exhaust from incinerators, reactors, kilns, boilers, furnaces, and oxidizers
- Stainless steel, nickel alloys, and refractory linings

Carbon Adsorbers

Physical and chemical adsorption of VOCs and other gas-phase pollutants

- Industrial emissions from paint spraying, material coating, and printing
- Odor control for food processing, industrial manufacturing, and wastewater treatment operations
- EV/ Battery manufacturing

Dust Collectors

High performance fabric filtration with reverse pulse cleaning

- Bulk solids handling
- Dry machining and grinding
- MQL machining
- CNC operations
- Explosive dust collection
- EV/ Battery manufacturing

Mist Collectors

Mist, smoke, and vapor removal of oils, lubricants, coolants, and more

- Metal cutting, forming, & machining
- Parts washer exhaust
- Steel and aluminum processing
- Rolling mill fume exhaust
- Synthetic fiber processing
- **Optional Fiber Bed Candle Filters**

Wet Electrostatic Precipitators (WESPs)

Effective control of fine particulate matter emissions

- $PM_{2.5}$, smoke, and submicron particulate
- Condensables and aerosols
- Opacity reduction and elimination
- Boiler and dryer emissions

www.mon-env.com • sales@mon-env.com • **800-992-7707** • Registered ISO 9001:2015 and ISO 14001:2015 •

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MONROE ENVIRONMENTAL

Water & Wastewater Treatment | Air Pollution Control

Water & Wastewater Treatment

Monroe Environmental® provides liquid clarification technologies for a variety of water treatment processes at nearly every type of industrial manufacturing plant and municipal treatment works, including those in the following fields:

Automotive Manufacturing | Chemical Processing | Food Processing | Glass & Plastics
Mining & Metals | Oil & Gas | Pulp & Paper | Steel Processing | Utilities/Energy | Waste Management

Circular Clarifiers and Thickeners

New, rebuild, and retrofit designs

- Scraper and spiral scrapers
- Suction header and riser pipes
- Solids contact/high rate clarifiers
- Flocculating clarifiers
- Sludge thickeners
- Variety of tank design options

Vertical Plate Clarifiers

Inclined Plate Lamella Clarifier for increased flow and reduced footprint

- Suspended solids and dissolved metals removal
- Industrial wastewater clarification
- Filter backwash clarification
- River water treatment
- Plate settler modules available

Horizontal Plate Clarifiers

Solids separation AND oil recovery in one tank

- TSS/TDS/metals removal
- Oil/water/FOG separation
- Can replace CPI Separators
- Cross-flow separator plates, non-clogging design
- **Optional Drag Conveyor**

X-Flo Mobile Clarifiers™

A complete mobile treatment solution that removes solids and free oils/floating scum

- High efficiency, non-clogging X-Flo plate separator cartridges
- Perfect for temporary job sites and/or bypass operations
- Produced water treatment
- Pyramid hopper for continuous sludge removal

API Oil/Water Separators

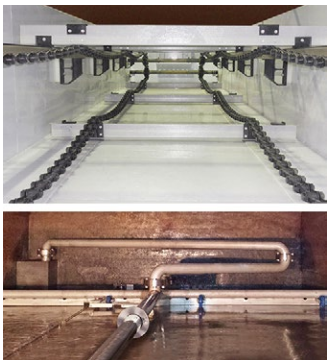
Oil/water separation and recovery at industrial treatment plants

- Oil refineries
- Power plants
- Steel manufacturing
- Chemical manufacturing
- New, rebuild, and retrofit designs
- Variety of sludge collector designs

Drag Tank Separator

Heavy-duty chain and flight solids conveyor and separator

- Slag and mill scale
- Aggregate, sand, and grit
- Glass cullet
- **Optional Oil Skimmers** available
- **Optional Cross-Flow Plates** to enhance separation



Sludge Collectors

Efficient collection of separated solids/sludge with many designs available

- Chain and flight collectors
- Drag conveyors
- Hoseless sludge collectors
- Screw augers and mechanical agitators
- Mud valves
- Sludge rakes/pipes

Air Strippers

Removes VOCs, ammonia, odorous compounds, and other pollutants from contaminated water streams

- Groundwater remediation at water treatment plants to remove VOCs
- Remediation of surface or groundwater for use in industrial manufacturing processes
- Ammonia stripping

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