

Calvert Mist Scrubbers

The Simple Solution for Proven Performance

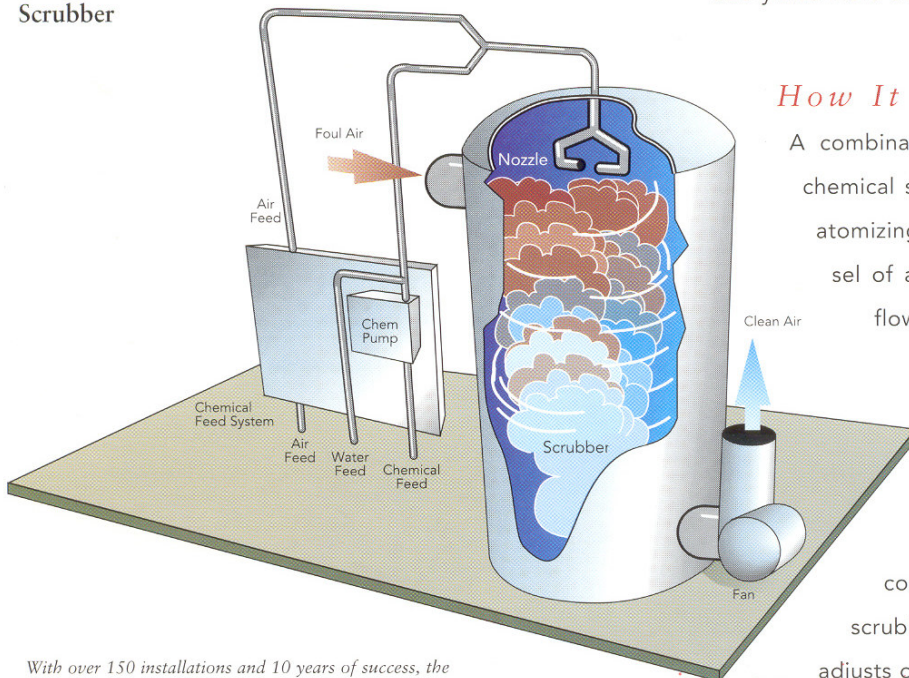
When it comes to treating H₂S and low-level mercaptans in wastewater, the choice is simple: Enviro-Chem's Calvert Mist Scrubber. It consumes minimal chemicals, yet treats sewage-related odors with the utmost efficiency. Plus, this once-through system requires no packing, no recirculation pump — and no costly maintenance from packing pluggage.

Effective, Efficient, Economical

Compare the advantages of the Calvert Mist Scrubber to other systems:

- Unique atomizing nozzle for high removal efficiency (up to 99%)
- Automatic control for optimal chemical feed rates and low chemical costs
- Low pressure drop for low energy costs
- FRP (Fiberglass Reinforced Plastic) construction for a corrosion-resistant system
- Large orifice atomizing nozzle for minimal maintenance
- Vertical or horizontal orientation for flexible installation

Calvert Mist Scrubber



With over 150 installations and 10 years of success, the Calvert Mist Scrubber has developed an excellent reputation in the United States and abroad.

Applications

Calvert Mist Scrubbers control odors — including H₂S, mercaptans and other reduced sulfur compounds from various wastewater treatment and compost processes:

- Aeration Basins
- Activated Sludge Processes
- Compost Facilities
- Dewatering Buildings
- Grit Chambers
- Pump Stations
- Septage Tanks and More

The Nozzle — The Secret Behind The System

The "secret" to the Calvert Mist Scrubber is its specially designed atomizing nozzle. Independent testing proved that this proprietary nozzle produces much smaller diameter droplets (between 5 and 20 microns) than other nozzles. It also yields more evenly distributed droplets.

How It Works

A combination of compressed air, water and a chemical solution create a scrubbing mist in the atomizing nozzle. This mist is released into a vessel of a size determined by the system's gas flow requirements and ppm loading. The nozzle's two opposing jets shear the solution into finely atomized drops, 5 to 20 microns in size, which are evenly dispersed at the scrubber inlet. Oxidation of the odorous compounds occurs upon contact with the scrubbing mist. Automatic control efficiently adjusts chemical feed rates to match the operational load of the process.