

DynaWave® Engineered Scrubbing System

A Better Approach to Wet Scrubbing

Specially designed for challenging gases, DynaWave scrubbers clean dirty, sticky gases without plugging. Using Froth Zone technology, these unique scrubbers accomplish several gas cleaning tasks at once: particulate removal, hot gas quenching and acid gas absorption.

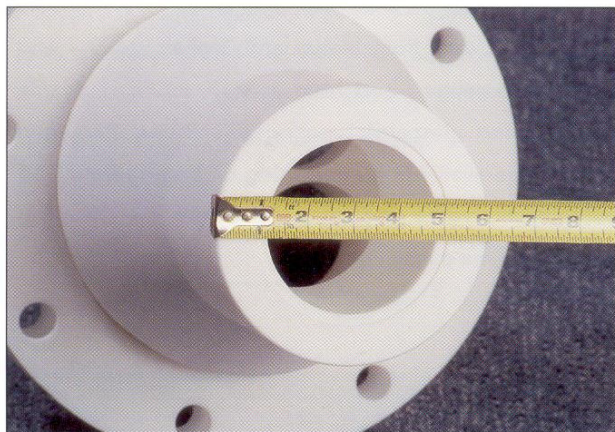
DynaWave outperforms conventional scrubbing systems in a variety of ways:

- Non-plugging design
- Broader turndown range
- Lower maintenance
- Easier operation
- Higher on-stream reliability
- Smaller footprint

Open Design for Optimum Performance

DynaWave's large, open bore liquid injectors and non-restrictive vessels allow the system to operate reliably — even in the dirtiest environments — with high collection efficiencies:

- High particulate removal
- SO₂ Removal to 99+%
- Hot gas quenching
- HCl removal to 99+%

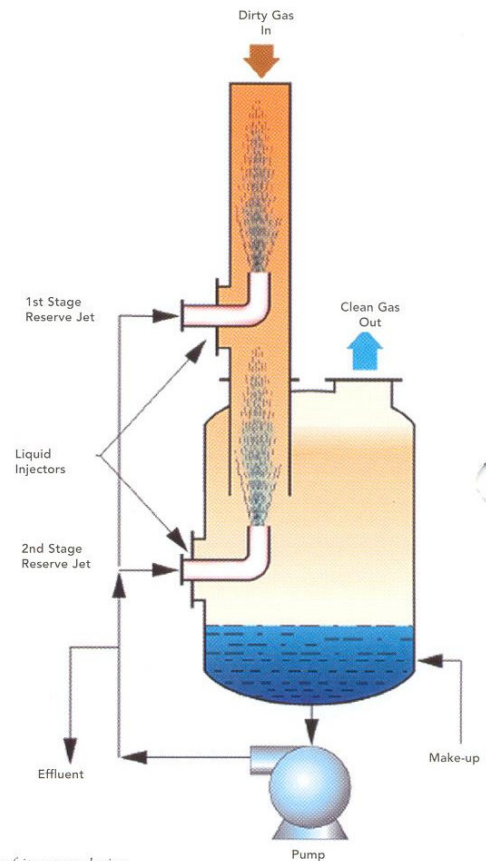


DynaWave large, open bore liquid injector.

Multiple Reagents for Reduced Chemical Costs

While most scrubbing systems can only use costly sodium hydroxide, DynaWave scrubbers can use less expensive slurries like lime, limestone and magnesium hydroxide — without pluggage or equipment downtime.

DynaWave® Staging



Because of its open design, DynaWave recirculates liquids with high solids (as much as 20%), reducing effluent blowdown rates.

Applications

DynaWave scrubbers have been installed in over 100 plants worldwide, in applications such as:

- Sulfuric acid plants
- Metallurgical
- Titanium dioxide
- Cement kilns
- Phosphoric acid recovery

How It Works

DynaWave's Reverse Jet Scrubber is an open duct in which liquid is injected counter-current to the gas through a non-restrictive injector. Liquid collides with downcoming gas to create the "Froth Zone," a region of extreme turbulence, with a high rate of liquid surface renewal. Through the balancing of the two streams' momentums, the liquid reverses directions and returns to the vessel sump for recycle back to the jet.