VENTURI SCRUBBERS

MS Super Scrubber

This compact design features a horizontal venturi section, an external recycle tank and an innovative cyclonic separator that allows efficient water droplet removal at a gas velocity almost twice that of traditional separator designs without the use of internal baffles or packings. Operating at a higher velocity translates into a smaller, more compact scrubbing system, saving valuable plant space.

- Compact cyclonic separator (velocity up to 2X traditional designs)
- Horizontal venturi section with a variety of liquid injection methods
- External recycle tank - easier to maintain

VTS Venturi Scrubber

This reliable design utilizes open pipe liquid introduction, a vertical throat, and a flooded elbow inlet to the cyclonic separator. Open pipes will not plug like high pressure spray nozzles if large particulate enters the recycle system and are able to accommodate a high solids concentration, if required. Since a pool of liquid is present at the bottom, the flooded elbow prevents wear. The VTS Venturi Scrubber can handle the most difficult of scrubbing applications.

- Open pipe liquid injection - plug resistant
- Vertical venturi with various throat designs available
- Flooded elbow - abrasion resistant
- Traditional or MS Cyclonic Separator can be used.

Guaranteed Gas Cleaning Technologies

FISHER-KLOSTERMAN®

A CECO Environmental Company

Available Features

- Vertical or horizontal gas entry
- Various throat and water injection designs
- Integral or external recirculation tanks
- Compact MS series cyclonic separator design
- High temperature quench section
- Combination particulate collection and gas absorption
- High solids concentration separator design
- Package systems complete with tanks, pumps, instrumentation, piping, fans, stack and controls
- Carbon steel, stainless, nickel alloys, or FRP construction
- High pressure design (ASME Code stamp available)
- Performance warranty

CECO Environmental

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How it works:

The dirty gas entering a scrubber is forced at high velocity through a venturi where it collides with scrubbing water. The tiny water droplets capture particles through impaction and diffusion. The dirty water is then removed in a cyclonic separator and discharged into a recycle tank. Some of the liquid is continuously purged to limit the solids concentration and allow recirculation back to the venturi section.

The design of the scrubber must be carefully considered to ensure proper operation. At Fisher-Klosterman, we utilize numerous throat, water injection, and separator designs to ensure that the scrubber you install is best suited for your process requirements. Our throat design options include fixed or adjustable, single or multiple blades, and rod decks. Water can be injected via spray nozzles, open tangential entry pipes or splash plates, when required. Flooded elbow inlets can be provided to minimize wear. We offer our high velocity, compact MS Series Cyclonic Separator as well as a large diameter/low pressure drop collector for droplet removal.

Performance can be guaranteed based upon accurate operating conditions and aerodynamic particle size data. Whatever your application requires, Fisher-Klosterman can provide.

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