

DYNAWAVE® REVERSE JET SCRUBBER

DYNAWAVE® IS THE ONLY WET SCRUBBING PROCESS THAT CAN USE A VARIETY OF REAGENTS AND ACCOMPLISH MULTIPLE FUNCTIONS, ALL IN ONE SCRUBBER.



FEATURES AND BENEFITS:

VIRTUALLY UNPLUGGABLE:

- Large, open bore reverse jet nozzles
- Non-restrictive, open vessels

ONLY WET SCRUBBING PROCESS THAT CAN USE A VARIETY OF REAGENTS:

- Sodium Hydroxide, NaOH (*caustic*)
- Calcium Hydroxide, Ca(OH)₂ (*lime*)
- Calcium Carbonate, CaCO₃ (*limestone*)
- Magnesium Hydroxide, Mg(OH)₂
- Others specific to the process

ACCOMPLISH MULTIPLE FUNCTIONS IN ONE SCRUBBER:

- High removal efficiency for SO₂, H₂S, HCl and other acid gases
- Particulate removal
- Hot gas quenching
- In-situ oxidation

HIGH ON-STREAM RELIABILITY

- Simple operation with minimal control instrumentation
- Minimal use of high alloy materials reduces costs
- Small footprint
- Designed to handle inlet temperatures above 2,200° F (1,200° C)
- Versatility: Can be integrated with other air pollution control equipment

S275-2702-77310
(771-102)
DL EL 4-2 1/4"

MECS®

DYNAWAVE®

Learn more at www.mecsglobal.com

DYNAWAVE® REVERSE JET SCRUBBER

HOW A REVERSE JET WET GAS SCRUBBER WORKS

The DynaWave® Reverse Jet Scrubber is an open duct in which scrubbing liquid is injected, through a non-restrictive reverse jet nozzle, counter current to the dirty inlet gas. Liquid collides with down-coming gas to create the “Froth Zone,” a region of extreme turbulence with a high rate of mass transfer. The clean, water saturated gas continues through the scrubber vessel to mist removal devices. The liquid reverses direction and returns to the vessel sump for recycle back to the reverse jet nozzle.

NUMEROUS APPLICATIONS:

- Fluid Catalytic Cracking off gas
- Sulfur Recovery Unit off gas
- Boilers/Flue-gas desulfurization
- Cement kilns
- Titanium dioxide
- Incineration
- Metal smelters & converters
- Sulfuric acid plants
- Phosphoric acid recovery
- Magnesium production
- Many others

PROVEN PERFORMANCE

- Over 300 wet scrubbing systems installed worldwide
- Flow rates from 1,000 to over 1,000,000 acfm
(1700 to over 1,700,000 Nm³/hr)



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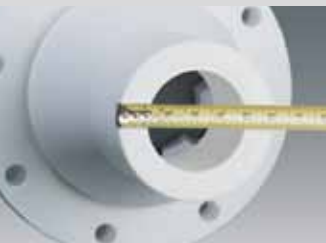
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TYPICAL DYNAWAVE® REVERSE JET SCRUBBER

SEE HOW IT WORKS

View a Quicktime® video on the MECS® web site at: www.dynawavescrubber.com



REVERSE JET NOZZLE

