

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:

- Particulate removal
- SO₂, H₂S, HCl and other acid gas absorption
- 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

DYNA
WAVE



Reverse Jet Scrubber

How a Reverse Jet 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.

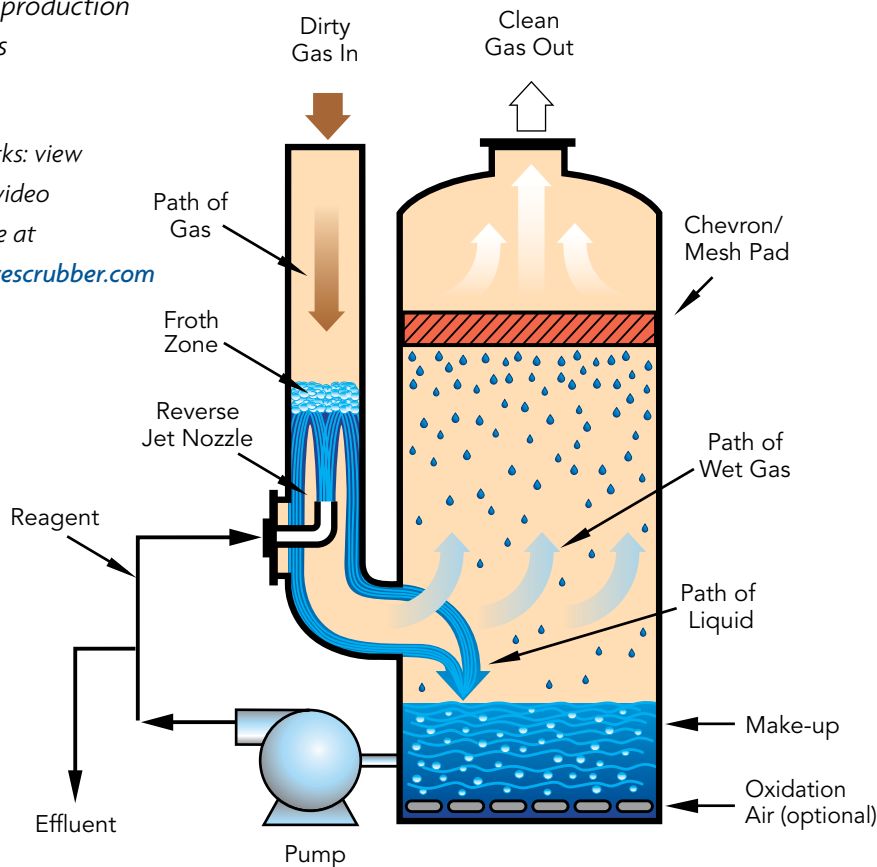
Numerous applications:

- 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

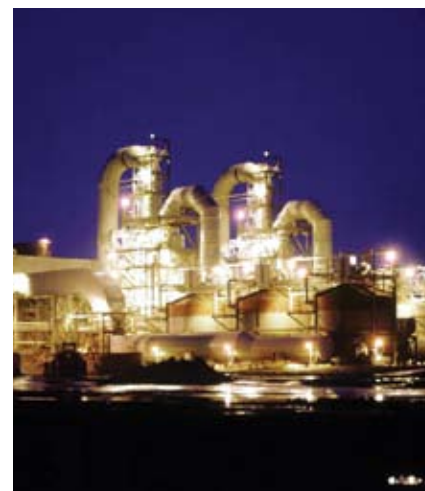
- Over 300 wet scrubbing systems installed worldwide
- Flow rates from 1,000 to over 1,000,000 acfm (1700 to over 1,700,000 Nm³/hr)

Typical DynaWave® Reverse Jet Scrubber



See how it works: view a Quicktime® video on our web site at

www.dynawavescrubber.com



MECS®

www.mecsglobal.com

North America

MECS Corporate Headquarters
Chesterfield, Missouri 63017 USA
Tel: 314-275-5700
northamerica@goldwing.mecsglobal.com

Europe/Africa

Brussels, Belgium
MECS Europe/Africa BVBA
Tel: 32-2-658-2620
europe-africa@goldwing.mecsglobal.com

Johannesburg, South Africa

MECS Europe/Africa BVBA
Tel: 27-11-708-9860
southafrica@goldwing.mecsglobal.com

Asia/Pacific

Hong Kong, China
MECS Far East Limited
Tel: 852-2832-8829
hongkong@goldwing.mecsglobal.com

Shanghai, China

MECS Chemical Plants
Equipment (Shanghai) Co., Ltd
Tel: 011-86-21-6443-5263
shanghai@goldwing.mecsglobal.com

Mumbai, India

MECS India Private Ltd.
Tel: 91-22-6688-9600
india@goldwing.mecsglobal.com

South America

Sao Paulo, Brazil
MECS Comércio de Produtos,
Máquinas e Equipamentos Ltda.
Tel: 55-11-3644-7788
brazil@goldwing.mecsglobal.com