



Wheelabrator Air Pollution Control

Excellence in Air Pollution Control



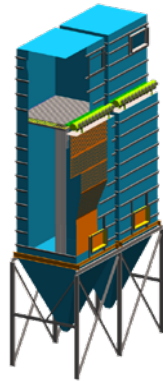
Innovative technologies for clean air

We offer a full line of air pollution control technologies across multiple sectors including iron and steel, pulp and paper, cement, mining, foundry, petroleum, refineries, chemical, refuse-to-energy, cogeneration and utility / large industrial applications.

Particulate Reduction

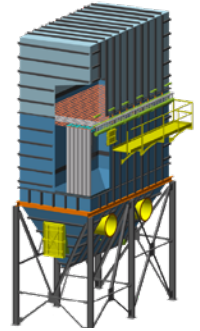
Jet VIP Fabric Filter

- ▶ Intermediate 35 psig (2.4 bar) pressure for low auxiliary load
- ▶ Cost-efficient long bag designs up to 10 m
- ▶ Split-gas baffle design to minimize can velocity and dust re-entrainment



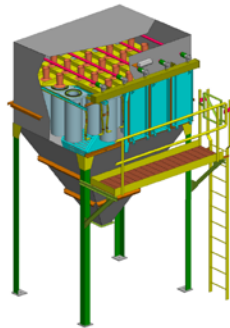
Jet III Fabric Filter

- ▶ Cost-efficient modular designs with bags up to 4.9 m
- ▶ Optimized high pressure, 90 psig (6.2 bar) cleaning
- ▶ High efficiency inlet "Sinto" baffle



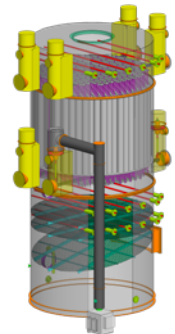
Cartridge Collectors

- ▶ Low capital cost
- ▶ Low freight and install cost
- ▶ No cages or filter hardware
- ▶ Compact, lightweight design
- ▶ Reduced foundations and support steel
- ▶ Significant install base in nearly every industry



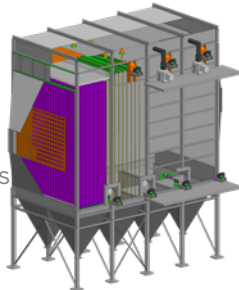
Condensing Wet ESP (CWESP)

- ▶ Compact rectangular or round designs
- ▶ Irrigated tubes allow continuous cleaning
- ▶ Durable rigid discharge electrodes



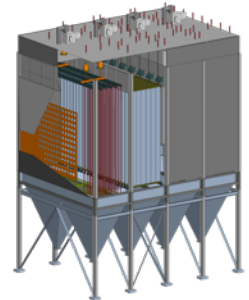
HaRDE Dry ESP

- ▶ High intensity tumbling hammer rapping for tenacious dust
- ▶ Clean roof, no penetrations minimizes in-leakage/corrosion
- ▶ Durable rigid discharge electrodes



VIGR Dry ESP

- ▶ Variable intensity gravity rapping for optimized plate cleaning
- ▶ Compact casing, no moving parts in air stream
- ▶ Durable rigid discharge electrodes

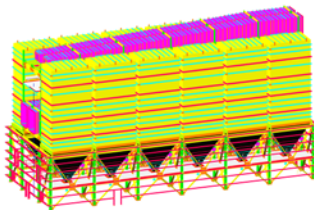


RECENT PROJECTS



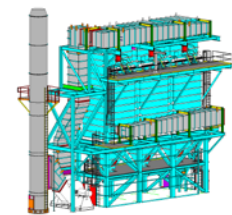
YKK

Product: Jet III FF
 Start-Up Year: 2023
 Gas Flow: 31,000 ACFM
 Material: Aluminum Oxide
 PM Removal: 99.4%



Reference Project

Product: Jet VIP FF
 Start-Up Year: 2020
 Gas Flow: 2 x 300,000 ACFM
 Fuel: Biomass
 PM Removal: >99.9%



Trojan Battery

Product: Jet VIP FF
 Start-Up Year: 2023
 Gas Flow: 90,000 ACFM
 Material: Oxides of Lead
 Auxiliaries: Spark Arrestor

Acid Gas and Metal Reduction

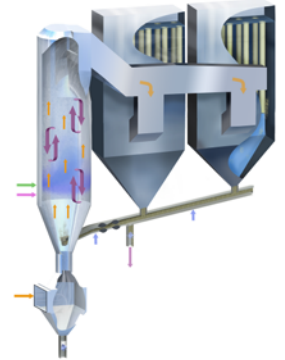
Spray Dryer Absorber (SDA)

- ▶ Low maintenance two-fluid nozzles can operate for up to 3 weeks without cleaning
- ▶ Minimal water and power consumption
- ▶ Cost-effective solutions for both utility and industrial applications



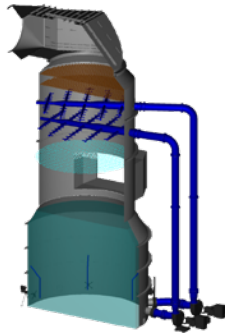
Circulating Fluidized Bed (CFB) Scrubber (Licensee)

- ▶ High multi-pollutant removal due to high solid-to-gas interactions
- ▶ High capture performance for wide fuel range
- ▶ Solid circulation keeps reactor surfaces clean
- ▶ Fully dry sorbent injection



Wet Flue Gas Desulfurization (WFGD)

- ▶ Dual Flow Tray (DFT) and open tower for design flexibility
- ▶ Cost-effective DFTs provide high removal efficiency
- ▶ Broad reagent and by-product experience



Dry Sorbent Injection (DSI)

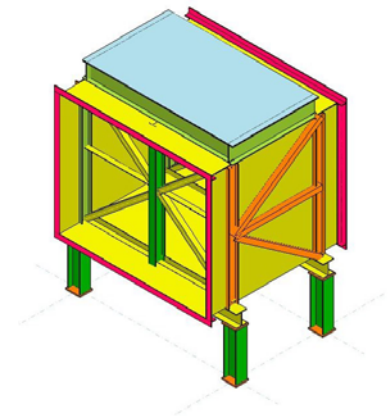
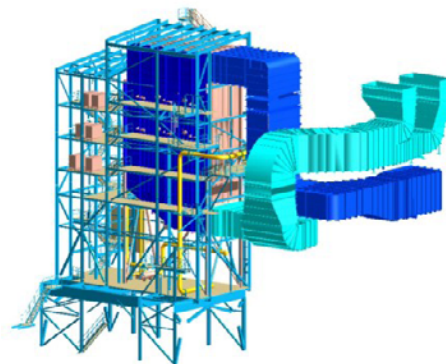
- ▶ Most economical acid gas and heavy metal control
- ▶ Broad sorbent experience
- ▶ Pre-packaged systems for reduced installation costs



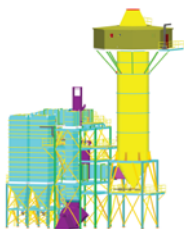
NO_x Reduction

Selective Catalytic Reduction (SCR)

- ▶ Patented proven design
- ▶ Vertical and horizontal installations
- ▶ Industrial and utility applications
- ▶ Simplified catalyst loading/unloading system
- ▶ Integrated ammonia injection grid and mixer
- ▶ Lay-up system for catalyst protection
- ▶ Experience in nearly every application including Gas, Oil, Coal, Petcoke & Waste Gas



RECENT PROJECTS



Reference Project

Product: SDA and FF
 Start-Up Year: 2023
 Gas Flow: 115,169 ACFM
 Dried Fluid: RO Concentrate
 Fluid Flow: 40 GPM
 PM Removal: >99.9%



Reference Project

Product: WFGD
 Start-Up Year: 2022
 Gas Flow: 2,044,012 ACFM
 Fuel: Coal
 SO₂ Removal: >97%



Duke Mayo

Product: SCR-Ammonia Stripper
 Start-Up Year: 2022
 Fuel: Coal
 Ammonia Flow: 3,056 lb/hr
 Bottoms Water Concentration: <3 ppm