HANDTE VENTURI

ADVANTAGES

- No fan power limitation
- Excellent accessibility facilitates easy maintenance
- Automatic sludge scraper upgradable
- For applications with ultrafine particle dimensions and high dust loads
- Separation efficiency adjustable on grain size distribution and particles density
- Optimum separation due to water injection in the Venturi zone

Application	The Venturi wet scrubber provides best separation efficiency on fine explosive metal dusts with high dust loads. This kind of dusts usually occur in industrial metal processing applications like shot blasting, grinding, brushing, hardening, forming, deburring or fettling.
Comment	Functional principle of the Handte Venturi wet scrubber: In the upstream Venturi zone, the scrubbing water is injected into the exhaust airflow, disrupted by the increase in velocity of the air, and disintegrated into water droplets. The high velocity between the polluted exhaust air and the water droplets in the Venturi throat causes the pollutants to bind with the water droplets. The polluted exhaust air is introduced tangentially with the polluted scrubbing water to the downstream demister unit and separated by the active centrifugal forces. The purified exhaust air is moved and discharged by the downstream ventilator positioned on the clean gas side. The separated pollutants are fully or partially isolated in the collecting area of the scrubbing water through sedimentation processes. They can be disposed of using various discharge systems.

2024-07-04