



Part.X PW

Acid mist wet electrostatic precipitator for the metallurgical industry

Dürr's Part.X PW acid mist wet electrostatic precipitator (ESP) provides high-efficiency removal of acid mist and particulate in sulfuric acid plant gas cleaning applications.

It features a modular, all-alloy, metallic design. With alloy units in operation since 2000, the Dürr model has a proven record of long equipment life. Multiple configurations are available to suit many existing process layouts, including top inlet and outlet, upflow/downflow and downcomer/custom design. The modular layout maximizes shop fabrication and reduces installation time and project costs.

The Part.X PW acid mist wet ESP features hexagonal, tubular collecting electrodes and rigid mast discharge electrodes with a fixed-frame design.

HIGHLIGHTS



Up to 90,000 m³/h per single module

Single stage efficiency:
Typically up to 95% (acid mist)

Two-stage efficiency:
Typically up to 99.75% (acid mist)

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FUNCTIONALITY

The rugged, all-alloy construction of the Part.X PW acid mist wet ESP offers many benefits, including:

- Non-flammable
- Ability to withstand high pressure cleaning without damage, especially suitable for smelting processes in which wet ESP scaling is a factor
- Low maintenance, no leakage due to cracks or bolted connections, as has been experienced with lead or plastic units; alloy units have seal-welded joints
- Ability to withstand temperature and pressure excursions
- Positive grounding delivers more consistent performance and improved safety inherent in metallic units; fogging nozzles not required to provide conduction path
- Material can handle optimum spark rates for maximum performance

APPLICATIONS

The Part.X PW acid mist wet ESP addresses acid plant gas from dirty, off-gas process streams generated by:

- Nickel and copper smelters
- Zinc and lead roasters
- Sulfuric acid regeneration
- High-purity acid applications



Installation of primary and secondary acid mist WESP trains for acid plant gas cleaning

Dürr has experience with many materials of construction including:

- 6% Moly alloy (AL6XN, 254 SMO, etc.)
- 904L
- Alloy 31
- Alloy C276
- Alloy C22
- Others as required

Transformer and rectifiers include conventional single-phase, high-performance three phase and high-frequency SMPS.



Internal construction of acid mist WESP



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