

Electrostatic Precipitator for Flue Gas Treatment

This electrostatic precipitator efficiently removes particulate matter from flue gas. It features a rapping system, isolation box, and flue gas distribution equipment.



Overview

High-Efficiency Flue Gas Treatment

This Electrostatic Precipitator (ESP) is engineered for robust flue gas treatment in industrial settings, featuring a sub-field structure designed for high reliability and superior dedusting efficiency. The system utilizes a vertical lead hanging structure for electrodes, ensuring excellent flexibility and heat resistance during operation. With automatic top electromagnetic hammer rapping, the unit offers high reliability and minimal entrainment, making it a dependable solution for immediate commissioning alongside boiler systems.

Technical Design

System Components

- Top rapping system
- Isolation box
- Casing
- Outlet nozzle
- Access door
- Hopper
- Collecting system
- Emitting system
- Flue gas distribution equipment
- Inlet nozzle
- HV inlet
- Top maintenance hole

Electrode Design Features

Vertical lead hanging structure, Small rigid frame, High flexibility, Heat resistant, Uniform-field-strength plate

Performance & Efficiency

Rapping System Capabilities

Automatic control • Top electromagnetic hammer • High reliability • Low entrainment • Easy maintenance

Efficiency Metrics

450 mm

Electrode Spacing

Installation & Maintenance

Installation Considerations

Upwards insulation system design allows for reduced ground area footprint. Equipped with trough plates at the end of the electric field to enhance overall collecting efficiency.