# AHT Wet Electrostatic Precipitator for Removing Aerosols from Small and Medium Volume Flows

## Overview

Process and exhaust gases frequently contain not only solid particles but also liquid components such as droplets and aerosols. In conventional surface or depth filtration systems, these substances can clog the filter matrix, resulting in increased pressure loss, reduced efficiency, and frequent system failures. However, AHT self-cleaning wet electrostatic precipitators remove ionisable gas components through electrostatic forces, thus eliminating any mechanical filtration barriers. As a result, particles collected on the anode tube are continuously and effectively washed away by a controlled liquid flow, ensuring stable operation and minimizing maintenance requirements.

## Advantages

**01**
**No Mechanical Barriers**

**02**
**Low Pressure Loss**

**03**
**Low Operating Costs**

**04**
**Minimized Spark Jumping**

**05**
**Continuous Cathode Cleaning**

**06**
**Suitable for Fuel Gases**

**07**
**Robust Design & Safe Operation**

**08**
**Long Maintanence Cycle**

## Technical Data & Specifications

With their modular design, AHT Electrostatic Precipitators offer high adaptability, allowing seamless customization for a broad variety of industrial processes.

**Operational Compatibility:** Suitable for combustion gases with $O_2$ measurement

**Process Breakdown:** Fine and ultrafine solid and liquid particles are separated from the process gas via an electrostatic field, where contaminated particles become negatively charged, are attract ed to the positively charged side, and are washed off by a liquid film.

| | (Beispiel 600 Nm³ (4 Module á 150 Nm³/h) |
|---|---|
| Max Power Consumption | 3 KWh (750W / module) |
| Water Flow | 20,000 kg/h |
| Temperature | 15-50 °C |
| Clean Gas | < 10 mg/Nm³ |