

Electrostatic Precipitator 450

Modular

Efficient

Energy-saving



The electrostatic precipitator 450 for exhaust air aftertreatment / cleaning of vulcanization vapors is compact, modular and extremely energy-saving.

Modular

The electrostatic precipitator consists of a modular system and can be expanded modularly depending on the requirements. Depending on the amount of air to be cleaned and its contamination, the filter stages can be variably supplemented. The unit works independently of your vulcanization system and can thus be operated not only on Gerlach systems, but on almost all hot air and microwave units.

Mode of operation

The electrostatic precipitator takes the exhaust air from the vulcanization channel and cools it down to a temperature of about 80°C. In the individual filter stages is an electrostatic high-voltage field that filters out the suspended solids from the air. The optionally available filter stage with activated carbon also neutralizes odor-intensive substances.

Each filter stage is equipped with an individually lockable door, which allows quick inspection and easy replacement of the filter elements from the front.

Efficient

Each filter has an integrated fan of efficiency class IE5, which is ideally designed for the air volume to be cleaned. Each filter stage has an energy consumption of only 1kW/h. An average filter system, including the fan power, thus achieves an energy consumption of less than 5kW/h.

Energy-saving

The commercially available thermal exhaust air aftertreatment in vulcanization technology are usually gas-powered and often consume up to 50% of the total energy of the vulcanization process.

By using the electrostatic precipitator, you not only save energy. Depending on the particle size, the separation capacity is >99%.

This is what active environmental protection and sustainability in rubber processing looks like today!

ESSENTIAL MACHINE FEATURES

- Modular filter system
- Flexible use
- Energy-saving exhaust air purification
- High efficiency
- Neutralization of odorous substances
- Compatible with third-party equipment

MACHINE DATA Electrostatic Precipitator 450

Module dimensions L x W x H	2,50 x 0,7 x 1,3 m
Integrated switch cabinet	230/400 V, 3ph, PE+N
Machine design	CE standards
Filter performance	1000 – 7000 m ³
Air inlet nozzle	300 mm
Function type	Electrostatic filtration
Machine color	RAL 7035

ESSENTIAL STANDARD EQUIPMENT

Inspection flap	Per filter stage
Filter stages	Modularly expandable
Activated carbon filter	Optional
Machine operation	Autarkic
Control	integrated

SPECIAL EQUIPMENT

- ⊗ Activated carbon filter
- ⊗ Heating belt for electrostatic precipitator bottom
- ⊗ Temperature control
- ⊗ Volume flow monitoring
- ⊗ Machine-side integration
- ⊗ Customer color

