OekoSolve
Environment. Energy.

OekoRona – Electrostatic filter for your wood-fired heaters up to 500 kW

ESP's

Electrostatic precipitators

up to100 kW
OekoTube

up to 500 kW
OekoRona

up to 3 MW
OekoRona M

Wood chips dryer with integrated ESP:

up to 10 MW
Neviro

The OekoRona is an electrostatic precipitator, which considerably reduces the emission of micro-dust caused by wood-fired systems, using wood chips, pellets or wood logs with an output up to 500 kW.

The OekoRona is directly installed after the boiler in the boiler room and can be fitted with either a new installation or retro-fitted to an existing boiler. The mechanical cleaning mechanism enables a fully automatic operation and reduces maintenance to a minimum.

OekoRona facts

- High efficiency of precipitation
- Fully automatic mechanical cleaning system
- Low wear and tear; low maintenance needed
- Easy to retro-fit
- Operational for negative or excess pressure
- Low use of energy
- For pellet, log wood, wood chip and coal boilers
– Optional: Remote maintenance

Certifications

D: DIBT Z-7.4-3519

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Particulate Matter. Particles with a diameter below 10 microns are hazardous to our health. The particles enter the blood vessels via the lungs. The use of a OekoRona actively improves the ambient air quality.

Installation. The OekoRona is directly installed after the boiler in the boiler room.The device can be used either for new installations or be retro-fitted to existing heating systems. Due to the compact design, it is possible to install the filter in confined spaces.

Operation. The filter unit can be automatically switched on or off either by a direct boiler signal or a temperature gauge. Operating parameters can be set and checked by the touch display.

Simple cleaning. The collected dust in the tubes is automatically removed by scraping the inner wall. The dust falls into the dust collection box. The filter can be optionally equipped with an automatic auger system which removes the dust from the box to a larger separate container.

Remote Maintenance. Adjustments can be made and operating errors can be remotely monitored and remedied. This increases the filter availability and reduces maintenance costs.

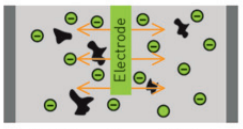
Models. The OekoRona is available with ratings between 70 and 500 kW.

Please do not hesitate to contact us if you have any further questions.

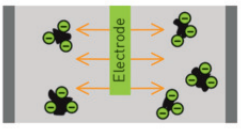
Planning documents and dimensional drawings can be found on our website: www.oekosolve.com

Operation principle

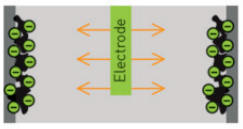
1. PM streams through the smoke stack with the hot exhaust gas.



2. A high-voltage (HV)-electrode releases electrons.



3. The charged particles move to the chimney wall.



4. The PM then accumulates inside the inner wall and can then be easily removed.