

AIR POLLUTION-ESP IS YOUR SOLUTION

Electrostatic Precipitator For Palm Oil Mills

NICON TECHNOLOGY

Our Electrostatic Precipitators
or ESPs uses the NICON
Technology from India.



ESPs are custom designed
to suit your boiler designs
& layout



Our ESPs will meet the regulatory
specifications for emission.
Particulate <150mg/NM³ & Opacity < 20%

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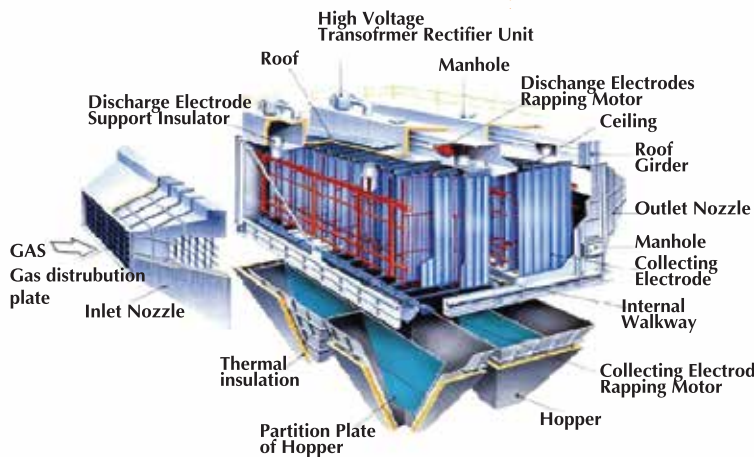
Electrostatic Precipitator

- Our ESP's design is according to Computational Fluid Dynamics (CFD) for optimal performance.
- Our ESP can be customized to handle solids fuels like EFB, palm fibre and palm shell.
- Our ESP can be customized on a modular basis for future expansion.
- Our ESP consumes low power and the voltage is stepped up from 415V to 110KV.
- Our ESP comes with either a mechanical bottom rapper or magnetic impulse top rapper.
- Our ESP's pressure drop across a two field unit is about 25" water column.
- Our ESP's discharge electrodes are either the pipe and spike type or spring type.



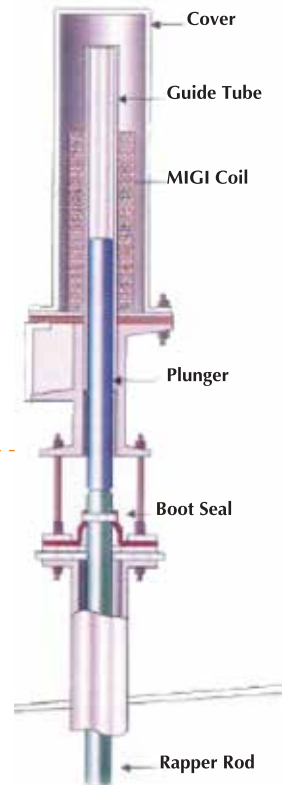
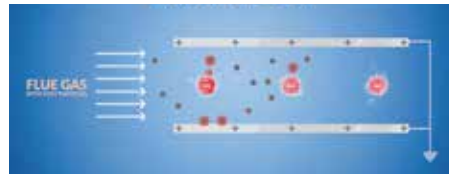
ESP-3D View

GSE supplied ESPs are typically supplied with 2 Fields and depending on the gas volume the number of passages, discharge electrodes and collecting electrodes are designed.



Principles of Operation

ESPs work on the principle of ionization using high voltage. Negatively charged particles migrate towards the positive discharge electrodes and releases the electrons.



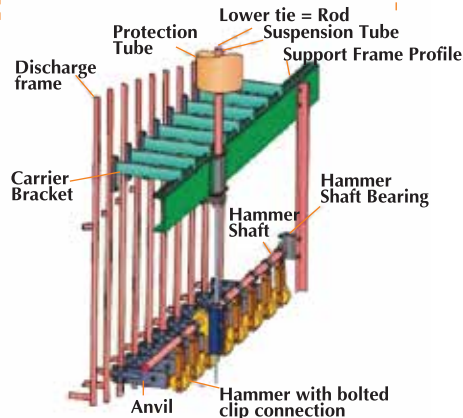
ESP -Under Erection

Typically an ESP can be erected within 9 months after receiving the letter of award.



Bottom Rapper

Bottom rappers are mechanically operated to remove the particulates from the electrodes.



Top Rapper

Top rappers are operated using the magnetic impulse gravity impact rapper and has no moving parts in the gas stream.

CFD Designed ESP

ESP is designed based on the Computational Fluid Dynamics. At the inlet to the ESP guiding vanes are positioned to channel gas volume into the ESP and attain almost a laminar flow inside the ESP.

