



Particulate
Removal
Systems

Wet Electrostatic Precipitator

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A Wet Electrostatic Precipitator (WESP or Wet ESP) operates with saturated gas streams (100% relative humidity) or gas with condensates and/or condensable.

WESPs are also commonly used to remove liquid droplets such as gas originating from industrial processes.

We design and supply plate type and honeycomb type WESP.

Process

The process of the WESP is very similar to the Dry ESP with the major difference residing in the cleaning of the collecting plates. In a WESP the rapping system is replaced by a water spraying or irrigation system.

WESP is particular well proven technology for:

- Gas with high moisture content
- Gas with combustible particulate
- Gas with sticky particles
- Removes moisture droplets



Plate Type(Total 22 Units)



Honey Comb Type(Total 15 Units)

Advantages

- Well proven technology over 100 years
- Very efficient on sub-micron particles
- High Removal Efficiencies –up to 99%+
- Offers multi pollutant control
- Used on Mid-high sulfur coals with saturated flue gas
- Various Types & Configurations
- Low Pressure drop, minimum maintenance and small footprint

References

- POSCO, Korea
- Hatinh Hot Strip Mill, Vietnam (2017)
- Taichang/Dongguan Nine Dragon Paper, China (2019)



POSCO, Korea



Hatinh Hot Strip Mill



Taichang Nine Dragon Paper



Dongguan Nine Dragon Paper