VAPOUR PRODUCTS & SERVICES

PRODUCTS:

Air Pollution Control Equipments

1. Dry Electro-Static Precipitator
2. Wet Electro-Static Precipitator
3. Bag Filter
4. Scrubber
5. Mechanical Dust Collecting Systems

ETP, Water, and Sewage Treatment Equipments

1. Clarifier Mechanism
2. Clariflocculator Mechanism
3. Flocculator
4. Flash Mixture
5. Pressure Sand Filter
6. Activated Carbon Filter
7. Dual Media Filter
8. Thickner Mechanism
9. Membrane Bag Filter

Hot Air Generator, Boiler, And Thermopac

Centrifugal Fans and Blowers

Twin Lobe Air Compressors

SERVICES:

Engineering Services

Field Services

Equipment Installations

Retrofitting

KEEP IN TOUCH

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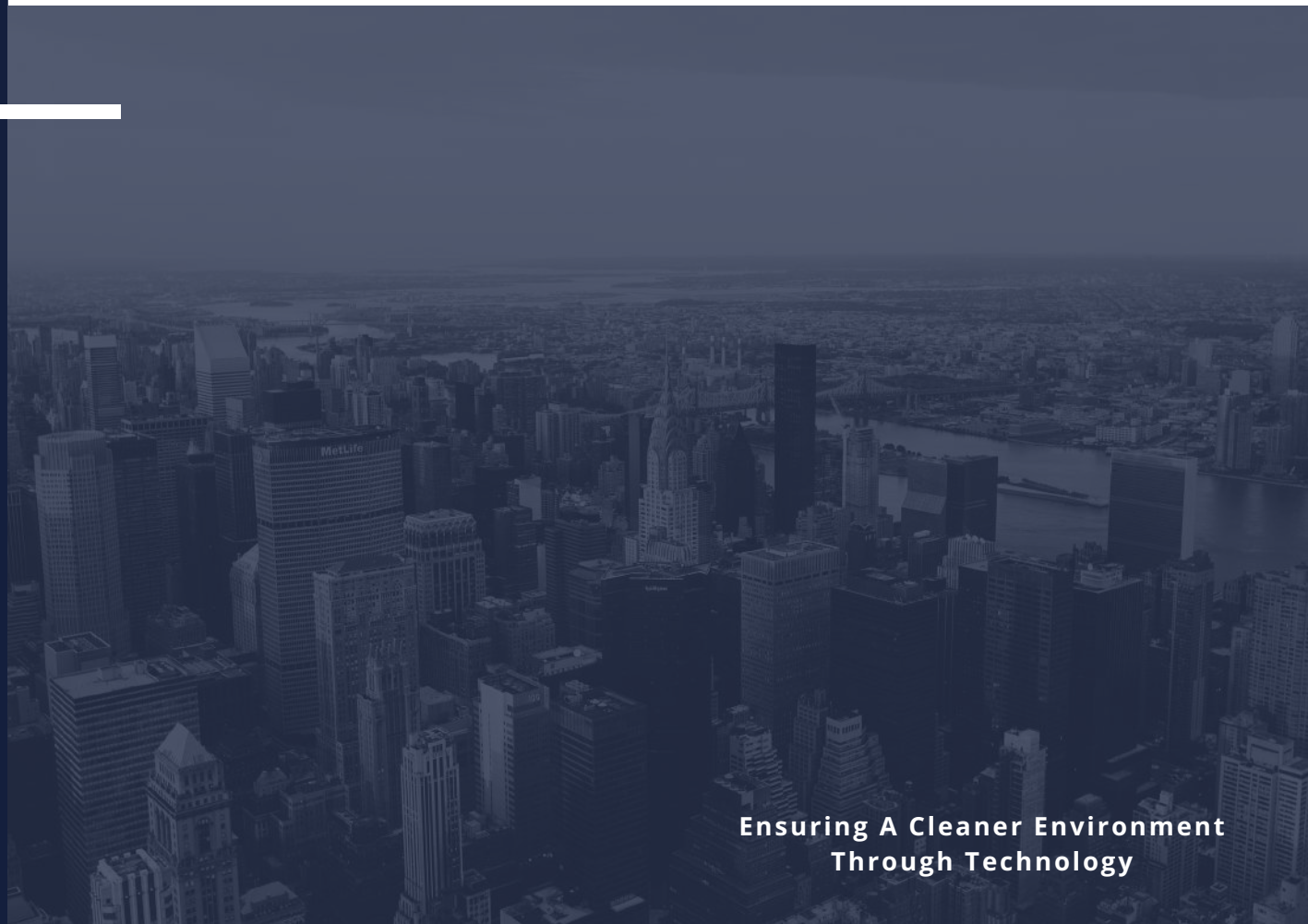
VAPOUR
ENGINEERS

WET ELECTRO-STATIC PRECIPITATOR



Ensuring A Cleaner Environment Through Technology

VAPOUR'S WET ELECTRO-STATIC PRECIPITATOR IS USED TO TREAT GAS STREAMS WITH SUB-MICRON PARTICULATE, AEROSOLS, OR FUMES. THESE CAN INCLUDE HEAVY METALS SUCH AS LEAD, ARSENIC, OR CADMIUM, CONDENSED ACID AEROSOLS LIKE SULFUR TRIOXIDE (SO3), OR CONDENSED VOLATILE ORGANIC COMPOUNDS (VOC'S)

Wet Electro-Static Precipitator uses electrostatic forces to remove particulate. The use of electrostatic forces minimizes energy costs compared to Venturi scrubbers or baghouses, Wet electrostatic precipitators are used in a wide range of applications including, hazardous and medical waste incinerators, metals refining, sulfite pulp mill recovery boilers, sulfuric acid plants, and wood dryers.

Particle collection occurs in a collector section which consists of an array of grounded tubes and high voltage discharge electrodes. A high voltage is applied to the discharge electrodes to both charge the particles and provide a high voltage field.

The voltage on the discharge electrodes creates a corona discharge of electrons from high intensity ionization disks on the electrodes. This disk-in-tube geometry allows for the formation of a stable, intense, electrostatic field for particle charging. As the electrons move from the discharge disk to the collector tube, some of them intercept particles in the gas stream which charges the particles.

Once the particles are charged they move across the gas stream by the high voltage field where they deposit on the grounded collector tube. The particles are then intermittently flushed from the collector tube with a stream of water.

KEY FEATURES

- HORIZONTAL OR VERTICAL FLOW ORIENTATION AVAILABLE TO MINIMIZE SITE LIMITATIONS
- SIMULTANEOUS MULTIPOLLUTANT REMOVAL IN ONE UNIT
- HIGH REMOVAL EFFICIENCY OF FINE PM (>99.9% ACHIEVABLE)
- HIGH REMOVAL EFFICIENCY OF HCL AND H2SO4 ACID MISTS (>95% ACHIEVABLE)
- REMOVAL OF HEAVY METALS SUCH AS MERCURY, CADMIUM, AND ARSENIC
- ELIMINATES ISSUES ASSOCIATED WITH HIGH RESISTIVITY DUST
- REDUCES COST OF UPSTREAM APC EQUIPMENT