

# 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

**DRY ELECTRO-STATIC PRECIPITATOR**

Ensuring A Cleaner Environment  
Through Technology

**THE VAPOUR DRY ELECTRO-STATIC  
PRECIPITATOR(ESP) IS A HIGHLY  
EFFICIENT SEPARATOR THAT  
ACCOMPLISHES MINIMAL OPERATING  
COSTS AND MAXIMIZED SEPARATION  
EFFICIENCY OF AROUND 99%.**

An Electro-Static Precipitator (ESP) is a filtration device that removes fine particles, like dust and smoke, from a flowing gas using the force of an induced electrostatic charge minimally impeding the flow of gases through the unit.

An ESP applies energy only to the particulate matter being collected and therefore is very efficient in its consumption of energy.

In the VAPOUR Dry Electrostatic Precipitator a high-voltage field of nearly 70 kV is created by discharge electrodes. This ionization is associated corona.

This corona discharge generates gas ions which adhere to the dust particles and impart an electrical charge to them.

The charged particles then move into the separating chamber and transported between the discharge and collecting electrodes to the positively charged collection electrodes, and thus removed from the gas stream.

The separated particles form a layer on the collecting electrodes. Rapping system is used to remove these dust particles from both the collecting plates and the discharge electrodes.

## KEY FEATURES

### MINIMAL MAINTENANCE COSTS

- QUICK AND LOW-COST MAINTENANCE IS ATTAINED DUE TO DECENT ACCESSIBILITY REALIZED THROUGH PLATFORMS, WALKWAYS AND LARGE ACCESS OPENINGS.
- NO PHYSICAL MAINTENANCE IS REQUIRED FOR THE DUST COLLECTOR HOPPERS, AS THEY ARE DESIGNED WITH STEEP SIDES TO AVOID BRIDGING.
- INEXPENSIVE SUPPORT WITH REMOTE ACCESS AS STANDARD.

### MINIMAL RUNNING COSTS

- LOW ELECTRICITY CONSUMPTION DUE TO VAPOUR'S ENERGY EFFICIENT DESIGN.

### MINIMAL CAPITAL COSTS

- LOW MANUFACTURING COSTS DUE TO COMPACT DESIGN WITH THE VAPOUR DESIGN CONSTRUCTION.
- COMPACT AND COST-EFFICIENT ASSEMBLY DUE TO IDEAL GAS DISTRIBUTION THROUGH FLOW-OPTIMIZED PERFORATED SCREENS.

