



PPC Industries

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What is an electrostatic Precipitator?

A Precipitator is a device that captures particulates from a gas stream.

In the simplest terms, a precipitator is a large housing that utilizes electrostatic forces for the collection of particulate. The particulate laden gases enter one side of the box and exit the other side clean. Inside, high voltage electrodes impart a negative charge to the particles. These negatively charged particles are then attracted to a grounded collecting surface, which is positively charged. The particles from the continuous collection operation build up on the collection plates or tubes. At periodic intervals, the plates in a Dry ESP are rapped, and the tubes in a Wet ESP are flushed, causing the particles to fall into the collection hopper. In a Dry ESP the particles are usually removed from the hopper by a rotary screw arrangement. In a WET ESP the hoppers are designed to gravity drain or pump the flush water to designated treatment or disposal

