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PRODUTOS / MÁQUINAS

Advanced systems for air pollution control

Air quality control technologies can be grouped generally into the following 3 methods:

Adsorption

Absorption

Thermal Oxidation

Adsorption: a process in which the pollutant molecules separate themselves from the gas phase and attach themselves to the surface of solid adsorbent. There are 2 types of Adsorption: Physisorption & Chemisorption.

Physisorption: a physical adsorption process in which the pollutant molecules separate themselves from the gas phase and attach themselves to the surface of solid adsorbent. The binding forces are of the magnitude of van der Waals forces.

Chemisorption: a chemical adsorption process in which the pollutant molecules separate themselves from the gas phase and attach themselves to the surface of solid adsorbent. The binding forces are comparable to those characterizing chemical compound formation.

Absorption: a physical process in which the pollutant molecules leave the gas phase and become dissolved in the liquid phase. The binding forces are based on the chemical affinity of the pollutant molecules towards the solvents.

Thermal Oxidation: a process wherein combustible materials are mixed at extremely high temperature levels in an oxygen rich environment. It efficiently consumes waste through a chemical oxidation/reduction reactive process at the molecular level.

TecHarmonic applies one method or combination of methods in the products.

Company Profile of **TECHARMONIC, INC.**

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