



Air pollution Control System Design

Technology Overview

Air pollution control, the techniques employed to reduce or eliminate the emissions into the atmosphere of substances that can harm the environment and/or human health. The primary focus of air pollution control systems is protecting ambient and/or outdoor air quality. This involves the control of a small number of specific “criteria” pollutants known to contribute to urban smog and chronic public health problems. The criteria pollutants include fine particulates, Carbon Monoxide, Sulphur Dioxide, Nitrogen dioxide, Ozone, and Lead.

Potential Application

Control equipment has applications in a wide range of industries, preventing the release of chemicals, vapours, and dust and filtering and purifying the air within the work environment. Typically, fans or blowers direct industrial exhaust and emissions into the air pollution control equipment and systems which remove or reduce air pollutants through the use of one or more of the following processes:

- Combustion
- Conversion
- Collection

Advantages

By implementing air pollution systems, ambient and outdoor air pollution can be prevented and air quality can be maintained in a safe level.

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