

Mission

Since the beginning of its activity our company has decided as its main objective: clean air from pollutants harmful to the environment and to human health.

For over 30 years we have acquired experience in installations of industrial air pollution control systems, by designed systems in compliance with atmospheric emission limits imposed by the law

Our systems are optimized in energy, water and reagents consumption.

AirDep is specialized in the design and the latest generation, relying on a highly qualified and experienced team. Our objective is to give to our customers a full service "Turnkey" starting from initial design until the installation and final test. AirDep experience in air pollution control allows to offer to its customers custom-made solutions

airdep
Air depuration plants

Give new life to air
Air treatment systems



Biogas plants components

Waste water treatment plants

Solid waste treatment plants

Industrial sector



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We design and build the latest generation of air depuration plants.



Bag filters

Is the medium most used in the industry, to remove dust from the air due to its low energy consumption compared to other treatment technologies of fine particles.

Our standard Bag Filter is made of the filtration elements housed in a casing. Below this casing is a hopper with a discharge valve, which continuously removes the dust that is collected on the bags. The entire unit is supported from the ground on structural legs. A caged ladder provides access to the top of the unit for maintenance.

Chemical deodorization

The chemical deodorization is composed of 2 or 3 towers in series. The chemical process envisages to neutralize odorous substances. The alkaline substances such as amines, ammonia..... are neutralized in the first stage; the acidic substances such as hydrogen sulphide, mercaptans, etc.... are neutralized in the second stage.

In the third stage the acids neutralization is completed.



The Venturi Scrubber

is used for the treatment of explosive dusts, aerosols and/or gaseous pollutants.

Depending on the size and the nature of the dust, the venturi can have a low, medium or high efficiency. This technology is applicable to the treatment of those pollutants that we cannot treat with a normal filter.

- ◇ high temperature fumes
- ◇ explosive dusts
- ◇ oleaginous dust and gas

Our objective is to minimize the operating costs

Deodorization with biofiltration

The process is to degrade biologically malodorous gaseous substances.

The biodegradation occurs in the biofilter where microorganisms in the wet biomass, malodorous molecules are absorbed and oxidized in various complex enzymatic reactions.



Deodorization with adsorption

In general the adsorption deodorization occurs through granular activated carbon.

The method consist in fixing hazardous and malodorous gaseous substances on a microscopic activated carbon surface.

To increase the adsorption capacity of a particular pollutant, it may be used an activated carbon impregnated with a suitable reagent.



Duct and fume Collection System

We design air Collection System using Plastic or metallic materials. We build duct and its support and We provide turnkey solutions and undertake all aspects of the Collection system from the design to the installation on site.