John Cockerill
Europe Environnement

Scrubbing - Dust extraction solution with phase separation system

Centrifuge spraying scrubber with **LCP**

Used when the gas to be cleaned is laden with dust or aerosols, the spraying dust extractor is the best-suited product for applications combining the problem of dust and corrosive, odorous gases in wet environments.

The wet dust scrubber use water or water mixed with reagents to facilitate separation of the pollutants from the dust.

PRINCIPLE

1. Confinement of dust and gas by water (with or without the addition of reagents).
2. Elimination of wet gathered particles by centrifugation.

RECOMMENDED FOR

Waste treatment generating a high level of particulate matter in the air.

- Tolerance for highly moisture-laden gas
- Reduction of secondary dust problems (clogging) thus contributing to extending the life of equipment downstream from this unit
- Processing of gas during biological treatment (humidification)

LCP

LCP during biofiltration pretreatment

Construction 100% solid
corrosion-resistant and fully recyclable (HDPE, PPh, etc.)

Tolerates high levels of dust
due to the spraying at the entrance to the mist eliminator

Simple and reliable system
requires very little maintenance

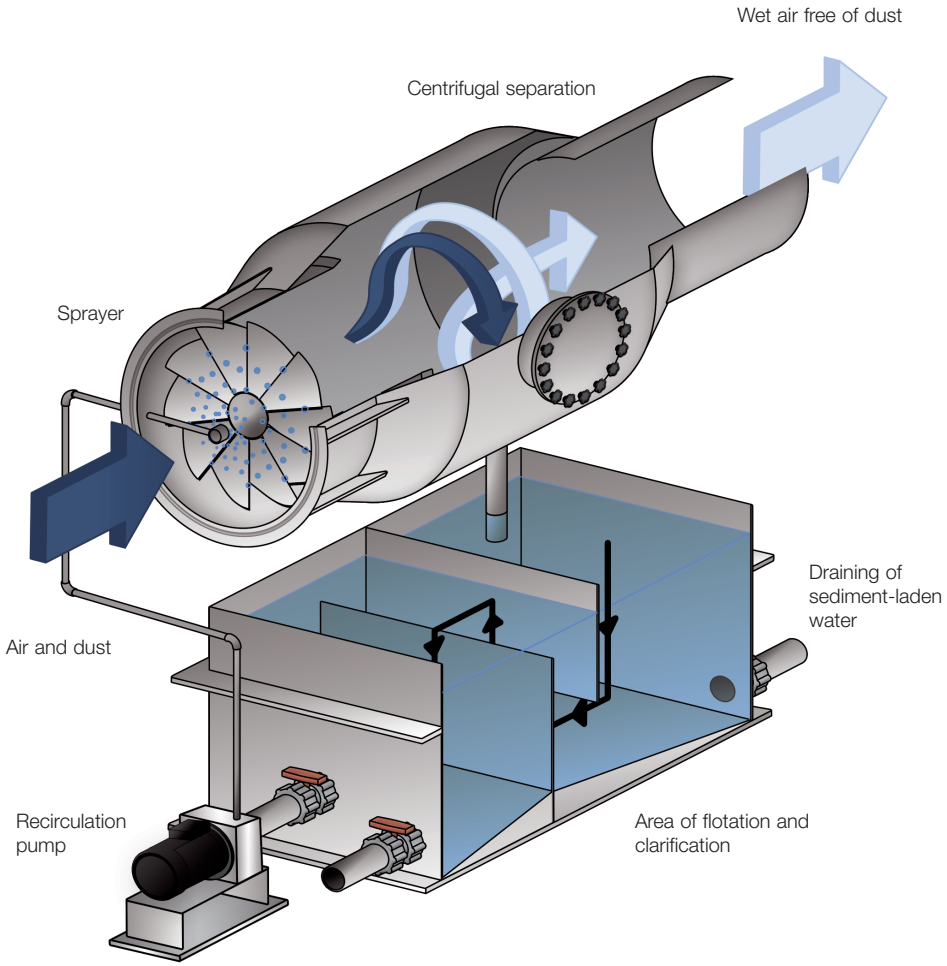
Suitable for physical-chemical treatments

Operation

The air to be treated is channelled through the centrifugal scrubber.

PRINCIPLE

1. Water spraying on the dust-air mixture to facilitate the build-up of dust
2. Droplets loaded with dust sprayed onto the walls of the centrifugal scrubber under the action of the static propeller
3. Drainage of the dust by gravity to the clarifier



At the outlet of the scrubber dust separator: exhaust moist air without dust.

After separation of floating matter and settling of fine dust, the water is returned to sprayer via recirculation pump.

To this function can be added a physical-chemical treatment, by adding reagents.

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