



DRY SMOKES  
AND DUST



# IDRODUST COMPACT

Hydrodynamic filter



The **Idrodust Compact** hydrodynamic filter is a dust suppression system designed to eliminate dust, vapors, and gases by using the principle of micro-mixing the air to be treated with water.

The incoming air passes through a pre-chamber equipped with spray nozzles, which remove macro-particles and cause them to settle at the bottom of the tank. Next, in the Venturi throat, the mixing process takes place, where a second line of nozzles enables the microfiltration of residual particles. Finally, before being expelled, the purified air passes through a droplet separator, whose cleaning is simplified by the presence of a third line of nozzles.

#### Accessories:

- ▶ Silencer
- ▶ Heater
- ▶ Level switch
- ▶ Sludge dredger
- ▶ Electrical panel with Start & Stop



Sludge dredger: an automated discharge system that prevents machine downtime for sludge removal. Residues settling at the bottom of the tank are collected by scrapers and mechanically transported to the discharge outlet for disposal.



#### Advantages:

- ▶ Modularity in standard versions: Airflow capacity from 2.500 to 24,000 m<sup>3</sup>/h
- ▶ Zero risk of fire and explosion due to the presence of water
- ▶ High efficiency
- ▶ Easy installation and adjustment
- ▶ Low maintenance requirements
- ▶ Compact and innovate design



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