



DRY SMOKES  
AND DUST



# IDRODUST COMPACT®

## Hydrodynamic filter



## The Idrodust Compact® hydrodynamic filter is a hydrodynamic dust, vapour and gas suppressor that uses the effect of micro-mixing the gas to be treated with water

Mixing takes place in a duct with a specifically designed shape in which the water is conveyed thanks to the vacuum created by the fan and the polluted air is spun to make it easier for dust to be captured and/or gaseous substances to be absorbed.

A high-performance drop separator placed at the outlet prevents water from being dragged. Idrodust compact has no parts subject to wear or clogging, which contributes in reducing maintenance.

### Optional:

- ▶ Electrical panel with Start & Stop or VFD
- ▶ Silencer
- ▶ Level Switch
- ▶ Heater
- ▶ Sludge remover
- ▶ Venturi Pump



▶ **Sludge remover:** it is an automatic discharging system that allows to prevent any machine stops for sludge removal. Sludge residues deposited on the bottom of the sedimentation tank are collected by scrapers and mechanically transported and discharged.

▶ **Venturi Pump:** recirculation kit to wash incoming waste water, mainly composed of a tank with integrated 1.1 kW immersion pump, pump stop level, 2" draught pipe and 1" feed pipe. Visual tank level and manual exclusion ball valve.



### Advantages

- ✔ **Efficiency:**
  - ▶ Emissions  $\leq 10 \text{ mg/Nm}^3$ \*
- ✔ **Extremely low installation, use and maintenance costs**
- ✔ **Multiple filter inspection access points**
- ✔ **No risk of fire thanks to the presence of water**
- ✔ **Technical support and after-sales service**

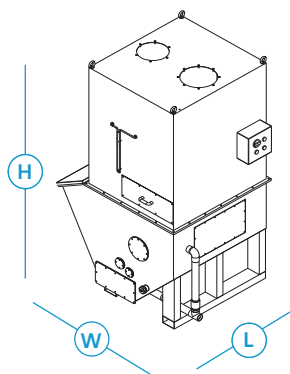
\*Other emissions reachable on demand



## Technical Specifications

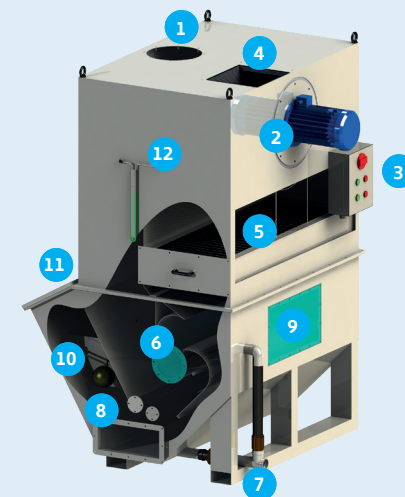
### IDRODUST COMPACT® S Series [without fan]

HF Code	AIRFLOW	TANK CAPACITY	CONNECTIONS [mm]		DIMENSIONS [mm]		
	[m³/h]	[l]	In	Out	L	W	H
ID103#/S	2500 - 3500	350	Ø250	Ø300	870	1500	2570
ID105#/S	4000 - 6000	500	Ø300	Ø350	1300	1500	2570
ID108#/S	7000 - 8500	650	Ø350	Ø400	1700	1500	2570
ID110#/S	9000 - 12000	800	Ø400	Ø500	2050	1500	2570
ID115#/S	14000 - 16000	1250	300 x 950	300 x 950	3200	1500	2570
ID120#/S	18000 - 24000	1600	285 x 2000	285 x 2000	4100	1500	2570



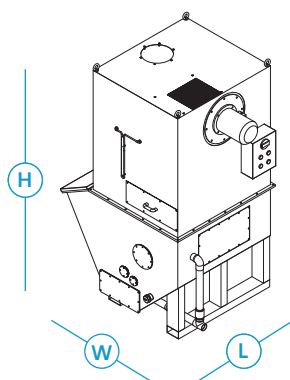
## Applications

- ▶ Water soluble gas flows
- ▶ Mechanical processing
- ▶ Metal glazing
- ▶ Generic dust



### IDRODUST COMPACT® V Series [with fan]

HF Code	AIRFLOW	STATIC PRESSURE	INSTALLED POWER		TANK CAPACITY	CONNECTIONS [mm]		DIMENSIONS [mm]		
	[m³/h]	[Pa]	Fan [kW]	Sludge remover [kW]	[l]	In	Out	L	W	H
ID103#/V	2500 - 3500	1940	1 x 4	-	350	Ø250	488 x 374	870	1900	2570
ID105#/V	4000 - 6000	2100	1 x 5,5	-	500	Ø300	488 x 374	1300	1900	2570
ID108#/V	7000 - 8500	2650	1 x 7,5	-	650	Ø350	488 x 374	1700	1900	2570
ID110#/V	9000 - 12000	3050	1 x 11	-	800	Ø400	488 x 374	2050	1900	2570
ID115#/V	14000 - 16000	2650	2 x 7,5	-	1250	300 x 950	2 x (488 x 374)	3200	2000	2570
ID120#/V	18000 - 24000	3050	2 x 15	-	1600	285 x 2000	2 x (488 x 374)	4100	2000	2570
ID103#/V-D	2500 - 3500	1940	1 x 4	1 x 0,37	430	Ø250	488 x 374	1970	1900	2900
ID105#/V-D	4000 - 6000	2100	1 x 5,5	1 x 0,37	620	Ø300	488 x 374	2400	1900	2900
ID108#/V-D	7000 - 8500	2650	1 x 7,5	1 x 0,37	800	Ø350	488 x 374	2800	1900	2900
ID110#/V-D	9000 - 12000	3050	1 x 11	1 x 0,37	1000	Ø400	488 x 374	3150	1900	2900
ID115#/V-D	14000 - 16000	2650	2 x 7,5	1 x 0,37	1550	300 x 950	2 x (488 x 374)	4400	2000	2900
ID120#/V-D	18000 - 24000	3050	2 x 15	1 x 0,37	1990	285 x 2000	2 x (488 x 374)	5300	2000	2900



- 1 Inlet flange
- 2 Centrifugal fan
- 3 Electrical panel
- 4 Outlet flange
- 5 Drop separator
- 6 Venturi duct
- 7 Tank discharge
- 8 Tank
- 9 Maintenance inspection door
- 10 Mechanical floating valve
- 11 Extraction sludge door
- 12 Differential manometer



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CERTIFICATIONS



BS OHSAS 18001

ISO 9001