



## 451 BL INERT - ATEX EXPLOSION PROOF



OEM ORIGINAL EQUIPMENT MANUFACTURERS



ADDITIVE MANUFACTURING



EXPLOSIVE AND CONDUCTIVE DUSTS



- ✓ High filtration efficiency
- ✓ Stainless steel AISI304 collection tank
- ✓ Earth grounding
- ✓ ATEX-certified Z22
- ✓ Motor with very long service life
- ✓ Inert liquid bath system for the safe discharge of explosive and conductive metal dust
- ✓ Easily removable container for safe disposal of collected material
- ✓ Prevents the build-up of the explosive atmosphere inside the vacuum
- ✓ High efficiency filtration
- ✓ Inert container marked: Ex II 3D h IIIC T85°C X Dc



### SUCTION UNIT

Atex zones		ATEX Z22
Marking		Ex II 3D Ex tc IIIC T135°C X Dc
Voltage	V - Hz	230 - 50 1~
Power	kW	1,1
Max water lift	mmH <sub>2</sub> O	2.250
Max air flow	m <sup>3</sup> /h	215
Suction inlet	mm	50
Noise level (EN ISO 3744)	dB(A)	77



### FILTER UNIT

Filter Type		Star
Surface - Diameter	cm <sup>2</sup> -mm	20.000 - 420
Material - Efficiency	IEC 60335-2-69	Polyester - ANT M
Liquid filter		PPL
Oil mist fiber filter		3x



### COLLECTION UNIT

Collection tank		AISI304 Stainless steel
Capacity	lt	10,5
Dust capacity	lt	5,4



### VOLUME

Dimensions	cm	50x63x136h
Weight	kg	62



## SUCTION UNIT

The motor head is equipped with a Brushless motor: the lack of carbons allows the use of the machine even in explosive hazardous areas. The motor is protected by a series of filters and it is turned on by an independent switch placed on a soundproofed and robust metal motor head.

The motor head includes a vacuum gauge and tension power lights as standard.



## FILTER UNIT

It is possible to clean the filter using an integrated mechanical system: an external lever shakes the filter vertically and enables to clean the filter thoroughly and safely, maintaining constant suction performance and preventing any dispersion of dust in the environment.

The large surface star antistatic filter, located inside the filter chamber, is made of polyester and provides high resistance against clogging and passage of fine dust.



## COLLECTION UNIT

The container contains a liquid bath inerting system that makes it possible to prevent fires / explosions due to flammable powders such as aluminum or titanium. The appropriate liquid must be used depending on the type of explosive powder. The vessel contains a stainless steel quick-lock deflector, a PPL separation filter to reuse oil for the next cleaning cycle, and a demister to prevent the oil mist from being sucked into the main filter. A pressure relief valve prevents the risk of accumulation of explosive gas in a vacuum.



## OPTIONALS

- ✓ ABSOLUTE HEPA FILTER /H14
- ✓ STAINLESS STEEL CHAMBER