

TIGER-VAC · II 2GD EX D IIA T3 GB / EX T IIIC T200°C DB IP6X -- LCIE 03 ATEX 6297 -- EN 17348

Tiger-Vac EXP1-10 (25L) DT RE HEPA MFS (SS-FOD CART)



The Tiger-Vac EXP1-10 (25L) DT RE HEPA MFS (SS-FOD CART) is a compact ATEX combined vacuum certified II 2GD to EN 17348 for simultaneous Zone 1 gas and Zone 21 dust. It combines a 25 litre detachable recovery tank with a Manual Filter Shaker (MFS) system and a star-shaped SD main filter, so the filter cake can be released without opening the machine. The FOD stainless steel tool basket (Foreign Object Debris) keeps accessories on the unit and prevents contamination -- important in pharma and aerospace. A 1.0 kW TEFC motor delivers 224 m³/h at 1550 mmH₂O, and ISO Class 4 cleanroom compatibility makes it suitable for pharmaceutical production. HEPA H14 final filter (EN 1822-5) and a static-dissipative poly liner are standard.

APPLICATIONS

- Pharmaceutical tablet compression with daily cleaning of press areas
- Laboratories and pilot lines where a detachable tank provides fast emptying
- Aerospace and precision manufacturing where FOD control is critical
- ISO Class 4 cleanrooms with external Zone 21 dust
- Chemical QC labs where solvents are vacuumed alongside powder dust

Technical specifications

ATEX marking	II 2GD Ex d IIA T3 Gb / Ex t IIIC T200°C Db IP6X -- LCIE 03 ATEX 6297 -- EN 17348
Internal / external zone	-- / 21
Motor type	1-faset TEFC-motor, eksplosionssikret (Ex d IIA T3 Gb / Ex t IIIC T200°C Db), 1.0 kW / 4.5 A
Airflow	224 m ³ /h
Vacuum	152 mbar (1550 mmH ₂ O)
Container	25 L
Sound pressure	78 dB(A)
Filter class	H class
Filter type	HEPA H14 (EN 1822-5, 99,995 % @ 0,3 µm MPPS), 211027B
Primary filter	SD stjerneformet hovedfilter med PTFE-laminering, filter-support ring og staaibur (218424AT)
Cleaning system	Manual Filter Shaker (MFS) -- manuel mekanisk filterryss
Collection system	Detachable container
Material	AISI 304 rustfri staa
IP class	IP6X
Power	1.0 kW
Current	4.5 A
Voltage	230 V / 50 Hz / 1~
Inlet	Diameter 50 mm
Dimensions (L x W x H)	660 x 660 x 1090 mm
Weight	45 kg

Questions and answers

What is the difference between MFS and MRP filter cleaning?

MFS (Manual Filter Shaker) uses a lever that mechanically shakes the main filter, causing the dust cake to fall into the container. It is simple, nothing changes in motor or airflow, and it is ATEX-safe because no valves or electrics are involved. MRP (Manual Reverse Purge) instead uses a reverse airflow through the filter to release the dust. MRP is effective for fine sticky powders, MFS is effective for coarser dust that falls easily.

What does FOD basket mean and why is it relevant?

FOD stands for Foreign Object Debris -- a term from aerospace covering any foreign object that can contaminate a production area. A stainless steel FOD basket keeps accessories (hose, nozzles, brush) on the machine itself rather than on the floor, so the operator does not risk leaving screws, hardware or plastic parts in a cleanroom or aircraft production line. In pharma and medical devices, it is a simple but real quality control.

What does ISO Class 4 cleanroom (formerly Class 10) mean?

ISO 14644-1 Class 4 permits a maximum of 10,000 particles at 0.1 µm or larger per cubic metre of air -- one of the cleanest levels used regularly in pharmaceutical and semiconductor production. The former US Federal Standard 209E called the same level "Class 10" (10 particles at 0.5 µm per cubic foot). AISI 304 construction with smooth surfaces and HEPA H14 exhaust makes the EXP1-10 (25L) compatible with these requirements -- though the installation itself must be validated locally.

Can it pick up liquids?

No. The EXP1-10 (25L) DT RE HEPA MFS is dry recovery only (EN 17348 DT). For both dry and wet within the same II 2GD envelope, choose the EXP1-15/25 (TC) RE HEPA (DT/LC), which is EN 17348 DT/LC for combined dry + non-flammable liquids.

Contact and advisory

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