

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

Tiger-Vac EXP1-25 (TC) RE HEPA



The Tiger-Vac EXP1-25 (TC) RE HEPA is the middle size in the TC series, the sibling to the EXP1-15 with the same ATEX certification (II 2GD, EN 17348 DT/LC). The difference is the collection capacity: 56.8 litres dry / 64.4 litres wet -- 50 % more than the EXP1-15 and suited for larger production areas, longer shifts or more frequent wet recovery. The Tilt Cart (TC) system keeps emptying ergonomic even when the liquid tank is full. 1.0 kW TEFC motor, 224 m³/h, 1550 mmH₂O vacuum, HEPA/ULPA filter surface 6,500 cm², main cloth filter 3,480 cm². AISI 304 stainless construction, ISO Class 4 cleanroom compatible -- suitable for pharma, biotech and chemical pilot lines.

APPLICATIONS

- Pharmaceutical production with higher cleaning volume than the 15L supports
- Larger laboratories and pilot lines with a full day's wet+dry recovery
- ISO Class 4 cleanrooms where a 56.8 L tank reduces emptying frequency
- Biotech with coating and granulation processes generating liquid + dust
- Chemical QC across multiple lines with the tilt cart's practical emptying

Technical specifications

ATEX marking	II 2GD Ex d IIA T3 Gb / Ex t IIIC T200°C Db IP6X -- LCIE 03 ATEX 6297 -- EN 17348 DT/LC
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	56.8 L
Sound pressure	78 dB(A)
Filter class	H class
Filter type	HEPA H14 (EN 1822-5, 99,995 % @ 0,3 µm MPPS), 211027B -- ULPA tilvalg
Primary filter	Main filter assembly SD (211013) + forfilter (212008) + liquid filter assembly SD (211010). HEPA/ULPA flade 6.500 cm ² , main cloth flade 3.480 cm ² .
Cleaning system	Ingen (manuel) -- filter skiftes eller bankes rent
Collection system	Detachable container
Material	AISI 304 rustfri staal (undtagen vogn)
IP class	IP6X
Power	1.0 kW
Current	4.5 A
Voltage	230 V / 50 Hz / 1~
Inlet	Diameter 38 mm
Dimensions (L x W x H)	790 x 690 x 1090 mm
Weight	49 kg

Questions and answers

When should I choose the EXP1-25 over the EXP1-15 or EXP1-55?

EXP1-15 (38 L / 47 L) for single stations or smaller labs with low volume. EXP1-25 (56.8 L / 64.4 L) for multiple stations or full day's production where emptying once per day is the target. EXP1-55 (151 L / 170 L) for high-volume production or centralised cleaning across multiple lines. Concretely: EXP1-25 is the best choice when 15 L feels too small but 55 L is overkill -- a classic mid-choice for medium-sized pharma factories.

Why is the height 10 cm larger than the EXP1-15?

The difference lies in the tank itself -- the EXP1-25 has a slightly taller container to provide 50 % more volume without increasing the footprint. EXP1-15: 99 cm height, EXP1-25: 109 cm height, both on a 79 x 69 cm base. For most pharmaceutical installations this is insignificant, but if you use the vacuum under low lab benches or in tight cleanroom passages, check it.

Does filtration differ compared to smaller models?

No -- HEPA/ULPA filter surface is 6,500 cm² and main cloth filter surface is 3,480 cm² on both the EXP1-15 and EXP1-25. Same filter housing and same filters. Filter service intervals and costs are therefore identical, only the tank and height differ.

How does the tilt cart work with a full liquid tank?

A full 64.4 L liquid tank weighs about 65-70 kg (water) plus about 20-25 kg for the tank itself -- around 90 kg total. The tilt cart mechanism has a lift-arm system that reduces operator force to about 20-25 kg to tip the tank forward; the physics is a "lever" with a fulcrum behind. Low enough that a single person can handle it without equipment, but repeated emptying must be planned ergonomically (no more than 20-30 tipping cycles per shift without a break).

Contact and advisory

PARTICULAIR

Particulair

Højtoften 12

2690 Karlslunde, Denmark

CVR: 34129894

Phone: (+45) 70 23 12 03

E-mail: sales@particulair.com

Web: particulair.eu

Product page: particulair.eu/ex-vac/en/atex-combi/exp1-25-tc-re-hepa/

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