

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 EXP1-15 (TC) RE HEPA



The Tiger-Vac EXP1-15 (TC) RE HEPA is the smaller-sized version of the TC series -- a dual-certified ATEX combined vacuum (II 2GD, EN 17348 DT/LC) for simultaneous dry and wet recovery of combustible dust and non-flammable liquids. The Tilt Cart (TC) construction provides a distinctive base where the entire collection tank can be tilted for disposal, a significant advantage in pharma where the operator should not lift the tank. 38 litre dry capacity / 47.3 litre wet, 1.0 kW TEFC motor delivering 224 m³/h and 1550 mmH₂O. HEPA/ULPA filter surface 6,500 cm² and main cloth filter 3,480 cm². AISI 304 stainless construction, ISO Class 4 cleanroom compatible.

APPLICATIONS

- Pharmaceutical cleaning with combined dry dust and water-based detergent
- Laboratories where tilt cart makes emptying fast and ergonomic
- ISO Class 4 cleanrooms with external Zone 21
- Chemical QC and pilot lines with non-flammable liquids
- Biotech production with coating residues and water-based cleaning

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	38 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 990 mm
Weight	47 kg

Questions and answers

What is a Tilt Cart and why is it important?

A Tilt Cart (TC) is a base where the entire collection tank is mounted on a tipping mechanism -- the operator releases a latch and the tank tips forward, so dust or liquid can be emptied directly into a waste container without lifting the tank. For a 38 L dust-filled tank or 47.3 L liquid-filled unit, this is a real ergonomic advantage: a full 47 L liquid tank weighs about 50 kg and is not practical to lift alone. In pharma and cleanrooms, TC is also a hygiene advantage because no components need to be opened or removed from the unit during emptying.

Why a 38 mm inlet instead of 50 mm?

The EXP1-15/25 (TC) has a 38 mm (1.5") inlet, while larger TC units such as the EXP1-55 (TC) have 50 mm. 38 mm fits the 1.5" static-dissipative accessory kit that is standard on the EXP1 range (Kanaflex hose 381400A, universal tool 381236 etc.), and it provides sufficient flow for most pharma and laboratory work. 50 mm is typically chosen for high-volume recovery or process extraction where larger volume per unit time matters. For 38 and 56 L tanks, 38 mm is well-dimensioned.

What does EN 17348 DT/LC mean?

EN 17348 DT/LC is the harmonised standard for vacuums in explosive atmospheres, specifically combined dust recovery (DT = Dust Collection) AND non-flammable liquid recovery (LC = Liquid Collection, non-flammable). The test method validates that the unit can handle both media safely within the ATEX framework. Flammable liquids (flash point below 60 °C) are NOT covered -- they require a higher certificate class (typically II 2GD with specifically tested chemical resistance and liquid class). The standard has been harmonised in the EU since March 2023.

Can I use ULPA on this model?

Yes. HEPA/ULPA filter surface is specified at 6,500 cm², meaning the filter housing is dimensioned to accommodate either a HEPA H14 (standard) or a ULPA upgrade (U15-U17). ULPA filters are more expensive (about 3-5x price) and have shorter service life, but deliver 99.9995+ % efficiency where required -- typically in high-potency API production or cleanroom classes ISO 3/2.

Contact and advisory

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