

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 (4W) BASE MODEL



The Tiger-Vac EXP1-10 (4W) BASE MODEL is the entry into the EXP1 line -- a compact 22.7 L ATEX combined vacuum certified II 2GD, built for dry recovery in pharma, chemical filling and other Zone 1/21 environments. The base ships with a static-dissipative cloth main filter and stainless-steel cage; HEPA H14, pre-filter and a complete tool kit are available as options, and a liquid recovery conversion kit exists if the unit later needs to handle fluids. ISO Class 4 cleanroom compatibility (AISI 304 construction) makes it suitable for pharmaceutical production.

APPLICATIONS

- Pharmaceutical routine cleaning in Zone 1/21 where HEPA is not always required from day one
- Chemical blending and filling areas with lightly ignitable vapours and powders
- Production support with later HEPA upgrade available
- Budget entry to ATEX II 2GD without compromise on safety or construction
- Light maintenance in laboratories and pilot lines with ISO Class 4 requirements

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	22.7 L
Sound pressure	78 dB(A)
Filter class	M class
Filter type	Statisk ledende klud-hovedfilter (211013A) med rustfri staaalbur (212734A) -- HEPA H14 (211027B) tilvalg
Primary filter	Statisk ledende klud-hovedfilter 211013A (inkluderet) + forfilter 212008 (tilvalg)
Cleaning system	Ingen (manuel)
Collection system	Detachable container
Material	AISI 304 rustfri staaal
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)	460 x 460 x 840 mm
Weight	37 kg

Questions and answers

What does II 2GD mean in the ATEX marking?

II 2GD means category 2 for both gas and dust. The unit may be used in areas where explosive atmospheres OCCASIONALLY occur during normal operation -- that is external Zone 1 for gas and Zone 21 for dust. Category 2 does NOT cover the interior of the equipment (Zone 0/20) -- that requires category 1. EN 17348:2022 is the harmonised standard that specifies test requirements for vacuums in this category.

Can I use the model in Zone 0 or Zone 20?

No. II 2GD requires category 2 externally -- Zone 1 gas and Zone 21 dust. Zone 0 (gas continuously present) and Zone 20 (dust continuously present) require category 1 equipment, which for vacuums is typically marked II 1/2GD or II 1GD. Choose e.g. the Delfin AIREX 1/2D-2/2G range for internal Zone 20 + external Zone 1/21.

Is the BASE MODEL really a complete vacuum?

Yes -- but without accessories. The BASE ships with motor head, container, static-dissipative cloth main filter and 4-wheel dolly. Tool kits (hose, wands, nozzles) are ordered separately. HEPA H14 (211027B), pre-filter 212008 and a liquid recovery conversion kit (214852 + 214854 + 211010) are options. This makes the BASE the lowest-cost entry and the most flexible to configure for a specific task.

Is the HEPA filter standard or optional?

On the BASE MODEL the HEPA H14 (211027B) is OPTIONAL -- standard is a static-dissipative class M cloth main filter with stainless-steel cage. Where HEPA is required, it is selected separately, and a pre-filter 212008 can be added to extend HEPA service life.

Contact and advisory

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