

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

Tiger-Vac EXP1-10/15 (4W) RE



The Tiger-Vac EXP1-10/15 (4W) RE is the versatile workhorse of the EXP1 line -- certified II 2GD to EN 17348 DT/LC for both dry recovery of combustible dust and wet recovery of non-flammable liquids. Available in two container sizes: EXP1-10 with 22.7 L dust / 28.5 L liquid, and EXP1-15 with 38 L dust / 47.3 L liquid -- all other specifications are identical, so the choice is purely one of capacity and height (84 cm vs 97 cm). H14 HEPA filter and ISO Class 4 cleanroom compatibility are standard on both.

APPLICATIONS

- Pharmaceutical production with both powder recovery and water-based cleaning in one workflow
- Chemical filling lines with solvent vapours, product powders and non-flammable spills
- Cleanroom class 4 environments where AISI 304 and static dissipation are mandatory
- Filling and post-processing with both dry and wet waste
- Maintenance teams wanting to avoid running two separate machines in the same ATEX zone

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	H class
Filter type	HEPA H14 (EN 1822-5, 99.995 % @ 0.3 µm MPPS), 211027B
Primary filter	Statisk ledende klud-hovedfilter 211013 + forfilter 212008 + vaeskefilter 211010
Cleaning system	Ingen (manuel)
Collection system	Detachable container
Material	AISI 304 rustfri staal
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)	480 x 460 x 840 (EXP1-10) / 480 x 460 x 970 (EXP1-15) mm
Weight	31 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.

What is the difference between EXP1-10 and EXP1-15?

All specs are identical -- motor, vacuum, airflow, filter class, ATEX marking -- except tank size and therefore height. EXP1-10: 22.7 L dust / 28.5 L liquid, 84 cm tall, 31 kg. EXP1-15: 38 L dust / 47.3 L liquid, 97 cm tall, 37 kg. The choice is purely capacity and available headroom/floor footprint.

Which liquids may I pick up?

EN 17348 DT/LC on this model covers NON-flammable liquids. That is water, aqueous solutions and non-ignitable process liquids. Flammable or solvent-based liquids require the MRAC variant (EXP1-10 (4W) RE HEPA (MRAC), DT/LC flammable) or a consultation with Particulair.

Is the HEPA filter standard or optional?

HEPA H14 to EN 1822-5 (99.995 % MPPS at 0.3 µm) is standard on this model. ULPA filter can be specified if the application requires a higher class.

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/exp1-10-15-4w-re/

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