

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

Tiger-Vac EXP1-5 (4W) RE HEPA



The Tiger-Vac EXP1-5 (4W) RE HEPA is the industry's smallest explosion-proof canister vacuum, certified II 2GD to EN 17348 for simultaneous Zone 1 gas and Zone 21 dust. The single-phase TEFC motor delivers 224 m³/h at 1550 mmH₂O in a compact 27 kg / 75 cm low-profile unit that reaches workspaces larger vacuums cannot. H14 HEPA filter (99.995 % at 0.3 µm, EN 1822-5) and a static-dissipative tool kit are included as standard.

APPLICATIONS

- Pharmaceutical production with simultaneous solvent vapours and active-ingredient powders
- Laboratories and pilot plants where space is tight but ATEX requirements are real
- Analysis and sampling bays in oil and gas with combustible dust and VOC exposure
- Field service at refineries and petrochemistry where portability is critical
- Printing and coating departments with pigment dust and solvent vapours

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	12.9 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 211013A + statisk ledende forfilter 212008
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)	530 x 610 x 750 mm
Weight	27 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.

How compact is the EXP1-5 really?

L x W x H = 530 x 610 x 750 mm, weight 27 kg, container 12.9 L. It is the industry's smallest explosion-proof canister vacuum, can be lifted into place by one person, fits under lab benches and is moved between workstations without a truck.

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/exp1-5-4w-re-hepa/

SMARTER THINKING • BETTER WORKING

This datasheet is generated deterministically from Particulair product data. Prices and availability provided on request. All specifications subject to change without notice.