

TIGER-VAC · II 1/2GD EXTERNAL: EX DB H IIB T4 GB -- EX H TB IIIC T135 C DB IP65 -- INTERNAL: EX H IIC T6 GA -- EX H IIIC T50 C DA -- -5 C <= TA <= +37 C -- EN 17348 DT -- LCIE 03 ATEX 6295 X -- IECEx LCI 10.0040X -- ATEX 3RD PARTY -- VARIANT: Z1-2-21-22 KOMBI CERT (111633B1)

Tiger-Vac CD/EUR-50L EX DT (MRP) ULPA Z1-2-21-22



The Tiger-Vac CD/EUR-50L EX DT (MRP) ULPA Z22 (111633B1) is the Z1-2-21-22 combined certification of Tiger-Vac's vertically mounted 50 L pharma vacuum with Manual Reverse Purge. Marked II 1/2GD with Z1-2-21-22 suffix (the model name refers to Tiger-Vac's own classification -- the formal ATEX category is 1/2GD per LCIE 03 ATEX 6295 X). A 4 kW TEFC induction motor (8.2 A) delivers 299 m³/h at 3380 mmH₂O and 75 dB(A). 50 L AISI 304 detachable tank, ULPA U15 standard, MRP system with conductive aluminised spun bond reverse purge cartridge in a removable filter chamber. Vertical CSMT (Carriage with Suspended Motor Top) construction on 81 x 69 cm footprint -- 210 cm tall -- ideal for pharma pilot plants with limited floor space. ISO Class 4 cleanroom compatible. Less than 10 ohm resistance to ground.

APPLICATIONS

- Pharma pilot plants in ISO Class 4 cleanrooms with Z22 dust
- Continuous duty with MRP-efficient filter cleaning
- Vertical mounting where floor space is at a premium
- ATEX housekeeping in pharma production with combined zone marking
- Process production with fine pharma CMR dust requiring effective MRP purge

Technical specifications

ATEX marking	II 1/2GD External: Ex db h IIB T4 Gb -- Ex h tb IIIC T135 C Db IP65 -- Internal: Ex h IIC T6 Ga -- Ex h IIIC T50 C Da -- -5 C <= Ta <= +37 C -- EN 17348 DT -- LCIE 03 ATEX 6295 X -- IECEx LCI 10.0040X -- ATEX 3rd party -- variant: Z1-2-21-22 kombi cert (111633B1)
Internal / external zone	20 / 21
Motor type	3-faset TEFC induktion -- eksplosionsbeskyttet (Ex db h IIB T4 Gb / Ex h tb IIIC T135 C Db IP65), 3rd party certified, kontinuerlig drift
Airflow	299 m ³ /h
Vacuum	331 mbar (3380 mmH ₂ O)
Container	50 L
Sound pressure	75 dB(A)
Filter class	H class
Filter type	ULPA U15 (EN 1822-5, 99,999 % MPPS 0,12 micron) standard inkl. -- aerosol leak-testet, OSHA-compliant. HEPA H14 også tilgængelig
Primary filter	Conductive Aluminized Spun Bond reverse purge cartridge SD* m/safety filter og cage (MRP-versioner) eller statisk afladende washable klod-hovedfilter (MFS-versioner)
Cleaning system	Manual Reverse Purge (MRP) m/CSMT (Carriage with Suspended Motor Top)
Collection system	Detachable container
Material	AISI 304 rustfri stål kabinet (undtagen cart -- som er heavy duty powder coated -- AISI 304 cart som tilvalg til pharma)
IP class	IP65
Power	4.0 kW
Current	8.7 A
Voltage	400 V / 50 Hz / 3~
Inlet	Diameter 63.5 mm
Dimensions (L x W x H)	810 x 690 x 2100 mm
Weight	60 kg

Questions and answers

What is the difference between the three MRP ULPA certifications (Z22 / Z21 / Z1-2-21-22)?

Drive specs are identical (4 kW, 299 m³/h, 3380 mmH₂O, 50 L tank, 60 kg). The difference is the underlying ATEX certification, which determines in which zones the unit may formally be used: Z22 (111625B1) is Zone 22 dust only; Z21 (111629B1) is Zone 21 dust; Z1-2-21-22 (111633B1) is combined -- Zone 1 and 2 gas + Zone 21 and 22 dust. Choose the variant based on the zone classification at your site -- contact us for advice if in doubt.

What is CSMT?

CSMT = Carriage with Suspended Motor Top. A construction where the motor hangs from a common frame design above the tank platform itself -- giving a small footprint and easy mobility even at 60 kg weight and 210 cm height. CSMT is industry standard at Tiger-Vac for high-flow vertically mounted ATEX models.

What is the advantage of MRP over MFS?

MFS (Manual Filter Shaker) shakes the filter with vibration -- simple mechanics. MRP (Manual Reverse Purge) uses reverse purge through the cartridge, breaking the filter cake loose effectively -- better for sticky, damp or very fine dust. The CD/EUR-50L MRP-ULPA version is specifically designed for pharma powder and CMR substances where MFS vibration is not sufficient.

Can it pick up liquids?

No. The CD/EUR-50L MRP ULPA is Dry Recovery Only per EN 17348 DT. For wet/dry recovery in combined zones see the CD-3 EX (W&D;) or CD-63L EX (W&D;) series.

Contact and advisory

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