

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 (111610B1) M/MFS

## Tiger-Vac CD/EUR-50L EX DT (MFS) CAT. 2GD Z1-21



The Tiger-Vac CD/EUR-50L EX DT (MFS) CAT. 2D Z21 (111610B1) is the MFS version of the CD/EUR-50L pharma vacuum platform with Z1-2-21-22 combined certification. ATEX II 1/2GD 3rd party. Manual Filter Shaker instead of MRP -- simple mechanics that shake the washable static dissipative cloth main filter clean. The True Cyclone Separator on the suction intake significantly increases separation efficiency. 4 kW TEFC, 299 m<sup>3</sup>/h, 3380 mmH<sub>2</sub>O, 74 dB(A). 50 L AISI 304 tank, 63.5 mm intake, ULPA U15 standard. Vertical mounting with CSMT (103 x 69 x 201 cm). Choose MFS if your dust is normally flowing and MFS vibration is sufficient; choose MRP if the dust is sticky or very fine.

### 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

<b>ATEX marking</b>	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 (111610B1) m/MFS
<b>Internal / external zone</b>	20 / 21
<b>Motor type</b>	3-faset TEFC induktion -- eksplosionsbeskyttet (Ex db h IIB T4 Gb / Ex h tb IIIC T135 C Db IP65), 3rd party certified, kontinuerlig drift
<b>Airflow</b>	299 m <sup>3</sup> /h
<b>Vacuum</b>	331 mbar (3380 mmH <sub>2</sub> O)
<b>Container</b>	50 L
<b>Sound pressure</b>	74 dB(A)
<b>Filter class</b>	H class
<b>Filter type</b>	ULPA U15 (EN 1822-5, 99,999 % MPPS 0,12 micron) standard inkl. -- aerosol leak-testet, OSHA-compliant. HEPA H14 også tilgængelig
<b>Primary filter</b>	Statisk afladende washable klod-hovedfilter i removable filter chamber
<b>Cleaning system</b>	Manual Filter Shaker (MFS) -- mekanisk vibration
<b>Collection system</b>	Detachable container
<b>Material</b>	AISI 304 rustfri stål kabinet (undtagen cart -- som er heavy duty powder coated -- AISI 304 cart som tilvalg til pharma)
<b>IP class</b>	IP65
<b>Power</b>	4.0 kW
<b>Current</b>	8.7 A
<b>Voltage</b>	400 V / 50 Hz / 3~
<b>Inlet</b>	Diameter 63.5 mm
<b>Dimensions (L x W x H)</b>	1030 x 690 x 2010 mm
<b>Weight</b>	60 kg

# Questions and answers

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

Drive specs are identical (4 kW, 299 m<sup>3</sup>/h, 3380 mmH<sub>2</sub>O, 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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