

TIGER-VAC · II 3D EX H TC III C DC IP65 -- -5 C ≤ TA ≤ +37 C -- EN 17348 DT -- ATEX 1ST PARTY CERTIFIED -- 2.5" CAMLOCK 63,5 MM SUGEPORT

Tiger-Vac CD-100L (DT) EX (MFS) Z22 -- 3.4 kW



The Tiger-Vac CD-100L (DT) EX (MFS) Z22 in 3.4 kW configuration is Tiger-Vac's high-capacity ATEX II 3D vacuum for Zone 22 -- 100 L AISI 304 detachable tank, three-phase TEFC motor and a 2.5" CAMLOCK quick-coupling suction intake. Note: Tiger-Vac's brochure incorrectly states category 2D for this variant; the correct ATEX marking is 3D (Z22) per Thomas' override instruction. 3400 W TEFC at 8 A delivers 306 m³/h at 2540 mmH₂O and 72 dB(A). The star-shaped Teflon-coated 19,500 cm² main filter is shaken mechanically by MFS, and the True Cyclone Separator increases separation efficiency. Suitable for high collection volume in industrial housekeeping, refinery boundary zones and chemical industry.

APPLICATIONS

- High-capacity ATEX housekeeping where a 100 L tank is required
- Industrial production with high dust volume in Zone 22
- Process production where three-phase 400 V is the standard supply
- Sites where 2.5" CAMLOCK quick-coupling reduces hose change time
- Continuous 24/7 operation with TEFC motor and True Cyclone for extended filter life

Technical specifications

ATEX marking	II 3D Ex h tc IIIC T125 C Dc IP65 -- -5 C <= Ta <= +37 C -- EN 17348 DT -- ATEX 1st party certified -- 2.5" CAMLOCK 63,5 mm sugeport
Internal / external zone	-- / 22
Motor type	3-faset TEFC induction-motor, eksplosionsbeskyttet -- kontinuerlig drift 24/7
Airflow	306 m ³ /h
Vacuum	249 mbar (2540 mmH ₂ O)
Container	100 L
Sound pressure	72 dB(A)
Filter class	H class
Filter type	HEPA H14 (EN 1822, 99,995 % MPPS), aerosol leak-testet, OSHA-compliant -- HEPA upstream/downstream som tilvalg, ULPA U15 også tilvalg
Primary filter	Star-shaped Teflon-belagt SD-hovedfilter med Manual Filter Shaker
Cleaning system	Manual Filter Shaker (MFS)
Collection system	Detachable container
Material	AISI 304 rustfri stål (krop og tank)
IP class	IP65
Power	3.4 kW
Current	8 A
Voltage	400 V / 50 Hz / 3~
Inlet	Diameter 63.5 mm
Dimensions (L x W x H)	1170 x 690 x 1680 mm
Weight	164 kg

Questions and answers

Why 3D and not 2D as the brochure says?

Tiger-Vac's own printed brochure incorrectly shows "Category: 2D" for the 112582B1-Z22 configuration. The correct ATEX marking according to Tiger-Vac's own certificate is 3D (Zone 22) -- as the Z22 suffix in the part number also indicates. We have confirmation from Thomas that the brochure has a typographical error in this row. The nominal category is 3D, and the product is correctly placed in atex-støv/z22-3d.

What is the difference between 3.4 kW and 5.2 kW variants of the CD-100L Z22?

3.4 kW (112582B1-Z22, this page) delivers 306 m³/h at 2540 mmH₂O with 8 A and 72 dB(A). 5.2 kW (112586B1-Z22) delivers 500 m³/h at 2540 mmH₂O with 10 A and 75 dB(A) -- about 63 % more flow at the same vacuum. Weight and dimensions are identical (164 kg, 117 x 69 x 168 cm). Choose 3.4 kW for standard applications; choose 5.2 kW when longer hose lengths, multiple simultaneous suction points or higher flow are required.

What is the 19,500 cm² main filter?

19,500 cm² (~1.95 m²) is the total area of the star-shaped PTFE-coated main filter (218637). The star-shaped (pleated) construction gives maximum area in a compact cylindrical form. The PTFE coating resists dust particles sticking to the filter, so the Manual Filter Shaker (MFS) effectively shakes the filter cake down into the tank at each emptying. Main filter life is typically 6-12 months under continuous use, depending on dust type.

What is the 2.5" CAMLOCK?

2.5" CAMLOCK is a quick-coupling hose connection (industry standard) where the male sits on the hose and the female on the machine. Connection happens without tools (the cam-lock arms lock the hose). 2.5" diameter (63.5 mm) is required for 306 m³/h flow -- a smaller 50 mm connection would create a bottleneck. The supplied crushproof suction hose (500540D, 50 mm x 4.5 m) has a 2.5" female camlock at the end and 50 mm at the hose body itself -- so connection to the machine is via CAMLOCK while the tool is standard 50 mm.

Contact and advisory

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