

TIGER-VAC · II 3D EX H TC IIIC T125 C DC IP65 -- -5 C ≤ TA ≤ +37 C -- EN 17348 DT -- ATEX 1ST PARTY CERTIFIED

Tiger-Vac CD-100L (DT) EX (MFS) Z22 -- 5.2 kW



The Tiger-Vac CD-100L (DT) EX (MFS) Z22 in 5.2 kW configuration is the high-flow variant of the CD-100L Z22 platform. Marked II 3D Ex h tc IIIC T125 C Dc IP65, EN 17348 DT, ATEX 1st party. 5200 W TEFC at 10 A delivers 500 m³/h at 2540 mmH₂O and 75 dB(A) -- about 63 % more flow than the 3.4 kW version at the same vacuum. Suitable for longer hose lengths (15-30 m), multiple simultaneous suction points (multi-pickup setups), and applications where high flow is needed to handle the recovered dust effectively. 100 L AISI 304 tank, star-shaped Teflon main filter, MFS, True Cyclone Separator. Identical dimensions and weight to the 3.4 kW version (164 kg, 117 x 69 x 168 cm).

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
Internal / external zone	-- / 22
Motor type	3-faset TEFC induction-motor, eksplosionsbeskyttet -- kontinuerlig drift 24/7
Airflow	500 m ³ /h
Vacuum	249 mbar (2540 mmH ₂ O)
Container	100 L
Sound pressure	75 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	5.2 kW
Current	10 A
Voltage	400 V / 50 Hz / 3~
Inlet	Diameter 50 mm
Dimensions (L x W x H)	1170 x 690 x 1680 mm
Weight	164 kg

Questions and answers

Why 5.2 kW instead of 3.4 kW?

The 5.2 kW motor delivers 500 m³/h flow -- about 63 % more than 3.4 kW. This is needed when hose length exceeds 15 m (flow loss in long hoses), when multiple operators or multi-pickup points require simultaneous suction, or when the workplace generates more dust than a standard single-point recovery can handle. Cable and fuse sizing must be for 16 A. 3.4 kW manages with 10 A.

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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