

TIGER-VAC · II 1/2D EX H TB IIIC T135 C DB IP65 -- INTERN: EX H IIIC T50 C DA -- LCIE 03 ATEX 6295 X -- IECEx LCI 10.0040X -- EN 17348 DT

Tiger-Vac CD-100L (DT) EX (MFS) 2D Z21 -- 3.4 kW



The Tiger-Vac CD-100L (DT) EX (MFS) 2D Z21 in the 3.4 kW variant is the high-capacity mobile dust vacuum for combustible dust -- marked II 1/2D to EN 17348 DT. With a 100 L detachable tank the model is suited to applications with high collection volumes where frequent emptying must be avoided. The three-phase TEFC motor (3.4 kW, 8 A) delivers 306 m³/h at 2540 mmH₂O. The main filter is a static-dissipative SD* PTFE star-shaped filter with 12 folds (218637) and 19,500 cm² surface, cleaned mechanically by Manual Filter Shaker (MFS). A manometer is included for vacuum monitoring. A True Cyclone Separator at the suction inlet boosts recovery capacity. The suction inlet is 2.5" CAMLOCK (63.5 mm) -- dedicated to crushproof suction hose (500540D) with 2.5" female camlock.

APPLICATIONS

- High-capacity recovery where frequent emptying of smaller tanks must be avoided
- Industrial production environments in Zone 20/21 with high dust volume
- General housekeeping with 2.5" CAMLOCK for larger hose diameter
- PTFE star-shaped filter (19,500 cm²) for the longest possible life between filter changes
- Continuous duty with True Cyclone Separator and manometer for monitoring

Technical specifications

ATEX marking	II 1/2D Ex h tb IIIC T135 C Db IP65 -- Intern: Ex h IIIC T50 C Da -- LCIE 03 ATEX 6295 X -- IECEx LCI 10.0040X -- EN 17348 DT
Internal / external zone	20 / 21
Motor type	3-faset TEFC-motor, eksplosionssikret (Ex h tb IIIC T135 C Db), 3,4 kW / 8 A, 400 V / 50 Hz
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 nedstroems (212202, 11" high, 99,995 % H14) eller (212202A, 22" high, 99,99 %) -- tilvalg. HEPA/ULPA filter surface size 19.500 cm ²
Primary filter	Main Filter Assembly, SD* PTFE star-shaped (12) filter (pleated) -- part 218637, overflade 19.500 cm ²
Cleaning system	Manual Filter Shaker (MFS) -- mekanisk rystning af det statisk ledende PTFE star-shaped hovedfilter
Collection system	Detachable container
Material	AISI 304 rustfri staal (cart: heavy-duty powder coated)
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 2.5" CAMLOCK instead of 50 mm or 63.5 mm standard?

2.5" CAMLOCK (corresponding to 63.5 mm internal) is a quick-connect coupling fast to attach and dimensioned for the larger air volume (306 m³/h) CD-100L delivers. The CAMLOCK connector also handles pressure differences better than a simple round coupling of the same dimension. The supplied crushproof suction hose (500540D, 2" x 15' / 50 mm x 4.5 m) has 2.5" female camlock on one end and 2" (50 mm) in the hose diameter itself -- so the hose connects to the machine via CAMLOCK, while the hose and tools are standard Ø50 mm. It's an industry standard solution across Tiger-Vac for all high-flow models.

What is the difference between the 3.4 kW and 7.5 kW variants of CD-100L?

The 3.4 kW variant (112570B1-Z21, this page) delivers 306 m³/h at 2540 mmH₂O -- identical to CD-4 and CD-55L in air volume and vacuum, but with a larger tank. The 7.5 kW variant (112574B1-Z21) delivers 450 m³/h at 2345 mmH₂O -- higher air volume but slightly lower vacuum, and weighs 11 kg more (175 kg vs 164 kg). 7.5 kW requires cable and fuse dimensioning for 15 A; 3.4 kW is fine with 8 A. Choose 3.4 kW for standard applications where 306 m³/h is enough; choose 7.5 kW when you need to recover much higher air volume (longer hose, multiple simultaneous pickup points) or want the machine to retain higher capacity over time.

What does 19,500 cm² filter surface mean, and why is it important?

19,500 cm² (~1.95 m²) is the total surface area of the PTFE star-shaped main filter (218637) including all 12 folds. For comparison a flat filter of the same diameter typically has only 1,000-1,500 cm² surface. The larger area means lower airflow resistance (longer motor life), longer intervals between filter cleaning (less downtime), and better handling of larger dust loads without clogging. The PTFE coating simultaneously prevents dust particles from adhering so Manual Filter Shaker can drop the cake more easily into the tank. Filter life is typically 6-12 months under continuous duty, depending on dust type.

Can it pick up liquids?

No. The CD-100L EX (MFS) 2D Z21 is certified EN 17348 DT -- dry-only recovery (Dry Recovery Only per brochure). For wet/dry in Zone 20/21 a dedicated WD model must be specified. Contact us for advice on ATEX wet/dry.

Contact and advisory

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