

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 -- 7.5 kW



The Tiger-Vac CD-100L (DT) EX (MFS) 2D Z21 in the 7.5 kW variant is the high-flow version of the CD-100L series -- marked II 1/2D to EN 17348 DT. The more powerful three-phase TEFC motor (7.5 kW, 15 A) delivers 450 m³/h at 2345 mmH₂O -- a higher air volume than the 3.4 kW variant at the cost of slightly lower vacuum. The model is particularly suited to applications with long hose runs, multiple simultaneous pickup points, or uses where large air volumes must be handled. The main filter is the same static-dissipative SD* PTFE star-shaped filter with 12 folds (218637) and 19,500 cm² surface as the 3.4 kW variant. Manual Filter Shaker (MFS) cleans the filter mechanically without opening the machine. The suction inlet is 70 mm direct connection (no CAMLOCK) to accommodate the higher air volume. NOTE: HEPA/ULPA filter surface size was not stated on the factsheet for the 7.5 kW variant -- contact us for current value before quotation.

APPLICATIONS

- High-flow applications where 450 m³/h is needed for long hose runs or multiple pickup points
- High-capacity recovery in Zone 20/21 with high dust volume
- Industrial central vacuum solutions where air volume is the primary parameter
- Production with connection to multiple workstations simultaneously
- Requirements for long continuous duty without manual intervention

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), 7,5 kW / 15 A, 400 V / 50 Hz
Airflow	450 m ³ /h
Vacuum	230 mbar (2345 mmH ₂ O)
Container	100 L
Sound pressure	75 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: TBD (ikke angivet paa factsheet -- kontakt producent)
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	7.5 kW
Current	15 A
Voltage	400 V / 50 Hz / 3~
Inlet	Diameter 70 mm
Dimensions (L x W x H)	1170 x 690 x 1680 mm
Weight	175 kg

Questions and answers

Why isn't the HEPA/ULPA filter surface size listed?

On Tiger-Vac's official factsheet for CD-100L 2D Z21 the 'HEPA/ULPA Filter Surface Size' column is filled for the 3.4 kW variant (19,500 cm²) but blank for the 7.5 kW variant. This is most likely because the filter topology is identical (same HEPA options 212202 and 212202A), but we confirm the value before ordering to avoid incorrect specification. Contact us when ready for quotation and we'll retrieve the current value directly from Tiger-Vac.

When should I choose 7.5 kW over 3.4 kW?

Choose 7.5 kW if: you have long hose runs (over 10 m) where pressure drop reduces the 3.4 kW variant's effectiveness; you need to connect multiple pickup points simultaneously (e.g. two or three workstations with their own hoses); or you operate a central vacuum solution where maximum air volume is required. Choose 3.4 kW if: standard use with a single 4-7 m hose; vacuum is more important than air volume (higher vacuum - 2540 vs 2345 mmH₂O - gives better performance on fine or sticky dust); or the electrical supply only supports 8 A (7.5 kW requires 15 A and matching cable/fuse sizing).

What is the difference between the suction inlets (70 mm direct vs 2.5" CAMLOCK)?

The 3.4 kW variant has a 2.5" CAMLOCK (63.5 mm) suction inlet, designed for crushproof suction hose 500540D with matching camlock. The 7.5 kW variant has a 70 mm direct connection -- a larger cross-section allowing higher air volume (450 m³/h) with less turbulence. The difference is a deliberate design choice: a 2.5" camlock limits flow to about 320 m³/h before turbulence increases, while 70 mm handles 450 m³/h without issue. If you upgrade from 3.4 kW to 7.5 kW you must also choose a hose in the larger dimension (typically Ø70 mm) to exploit the full performance.

Can it pick up liquids?

No. The CD-100L EX (MFS) 2D Z21 is certified EN 17348 DT -- dry-only recovery. For wet/dry in Zone 20/21 a dedicated WD model must be specified.

Contact and advisory

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This datasheet is generated deterministically from Particulair product data. Prices and availability provided on request. All specifications subject to change without notice.