

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 -- 2.5" CAMLOCK 63,5 MM SUGEPOR

Tiger-Vac CD-100L (DT) EX (MFS) CAT. 2GD Z1-21 -- 4 kW



The Tiger-Vac CD-100L (DT) EX (MFS) CAT. 2GD Z1-21 in 4 kW configuration is Tiger-Vac's high-capacity ATEX II 1/2GD combined vacuum. Marked II 1/2GD 3rd party (LCIE 03 ATEX 6295 X + IECEX LCI 10.0040X) -- approved for internal Zone 20 + gas Zone 1 + dust Zone 21 simultaneously. 100 L AISI 304 detachable tank, three-phase 4 kW TEFC at 8.7 A delivers 299 m³/h at 3380 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. 2.5" CAMLOCK quick-coupling suction intake. HEPA H14 and ULPA U15 are options -- suitable for pharma and chemical industry applications where combined zone marking is required and high collection volume is critical.

APPLICATIONS

- Pharma and chemical industry plants with combined zone marking and large collection volume
- Refinery boundary zones with simultaneous gas Zone 1 and dust Zone 21
- Process production where the 100 L tank gives long emptying intervals
- Sites where 2.5" CAMLOCK quick-coupling and 4 kW motor are the optimal combination
- Industrial housekeeping with continuous 24/7 operation

Technical specifications

ATEX marking	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 -- 2.5" CAMLOCK 63,5 mm sugeport
Internal / external zone	20 / 21
Motor type	3-faset TEFC induktion -- eksplosionsbeskyttet (Ex db h IIB T4 Gb / Ex h tb IIIC T135 C Db IP65), 3rd party certified, kontinuerlig drift
Airflow	299 m ³ /h
Vacuum	331 mbar (3380 mmH ₂ O)
Container	100 L
Sound pressure	72 dB(A)
Filter class	H class
Filter type	HEPA H14 (EN 1822, 99,995 % MPPS) tilvalg upstream/downstream -- aerosol leak-testet, OSHA-compliant. ULPA U15 også tilvalg
Primary filter	Star-shaped 19.500 cm ² PTFE main filter SD* (218637)
Cleaning system	Manual Filter Shaker (MFS) m/True Cyclone Separator
Collection system	Detachable container
Material	AISI 304 rustfri stål kabinet (undtagen cart -- som er heavy duty powder coated -- AISI 304 cart som tilvalg til pharma)
IP class	IP65
Power	4.0 kW
Current	8.7 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

What is the difference between the 4 kW and 7.5 kW variants?

4 kW (112570B1, this page) delivers 299 m³/h at 3380 mmH₂O at 8.7 A and 72 dB(A). 7.5 kW (112574B1) delivers 450 m³/h at 2345 mmH₂O at 15 A and 75 dB(A) -- about 50 % more flow but 30 % lower vacuum. Weight: 164 kg vs 170 kg. Choose 4 kW for standard applications; choose 7.5 kW when you need higher air volume for longer hose lengths or multiple simultaneous suction points.

What is the True Cyclone Separator?

A passive pre-separator at the suction intake that uses centrifugal force to separate 70-80 % of the coarsest dust before it reaches the main filter. Significantly reduces filter loading and can extend filter life 3-5 times. This means longer intervals between MFS-shaker cycles and lower operating cost over time.

What is the manometer for?

The manometer on the intake side shows the vacuum level and gives the operator a quick visual signal of when the filter is becoming clogged (higher vacuum = more cake on the filter). It is also a safety function -- if the VRV valve opens due to blockage it is clearly visible on the manometer.

What hose type is used?

Standard is the supplied 500540D crushproof suction hose -- 50 mm x 4.5 m static conductive with 2.5" female CAMLOCK aluminium. Connects to the machine's 2.5" CAMLOCK intake. The hose can be replaced by the 500306D KANAFLEX explosion-proof hose (mandatory with conductive metal dust). 70 mm polyurethane hoses are also available for high-flow applications.

Contact and advisory

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