

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 SUGEPART

# Tiger-Vac CD-100L (DT) EX (MFS) CAT. 2GD Z1-21 -- 7.5 kW



The Tiger-Vac CD-100L (DT) EX (MFS) CAT. 2GD Z1-21 in 7.5 kW configuration is the high-flow variant of the CD-100L combined platform. Marked II 1/2GD 3rd party. 7500 W TEFC at 15 A delivers 450 m<sup>3</sup>/h at 2345 mmH<sub>2</sub>O and 75 dB(A) -- about 50 % more flow than the 4 kW version but 30 % lower vacuum. 100 L AISI 304 detachable tank, 170 kg weight (6 kg more than 4 kW due to the larger motor). The rest of the package is identical: star-shaped 19,500 cm<sup>2</sup> main filter, MFS, True Cyclone Separator, 2.5" CAMLOCK intake. Suitable for longer hose lengths (15-30 m), multi-pickup setups with multiple simultaneous operators, or workplaces where high flow is needed to handle the collected dust effectively.

## 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

<b>ATEX marking</b>	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
<b>Internal / external zone</b>	20 / 21
<b>Motor type</b>	3-faset TEFC induktion -- eksplosionsbeskyttet (Ex db h IIB T4 Gb / Ex h tb IIIC T135 C Db IP65), 3rd party certified, kontinuerlig drift
<b>Airflow</b>	450 m <sup>3</sup> /h
<b>Vacuum</b>	230 mbar (2345 mmH <sub>2</sub> O)
<b>Container</b>	100 L
<b>Sound pressure</b>	75 dB(A)
<b>Filter class</b>	H class
<b>Filter type</b>	HEPA H14 (EN 1822, 99,995 % MPPS) tilvalg upstream/downstream -- aerosol leak-testet, OSHA-compliant. ULPA U15 også tilvalg
<b>Primary filter</b>	Star-shaped 19.500 cm <sup>2</sup> PTFE main filter SD* (218637)
<b>Cleaning system</b>	Manual Filter Shaker (MFS) m/True Cyclone Separator
<b>Collection system</b>	Detachable container
<b>Material</b>	AISI 304 rustfri stål kabinet (undtagen cart -- som er heavy duty powder coated -- AISI 304 cart som tilvalg til pharma)
<b>IP class</b>	IP65
<b>Power</b>	7.5 kW
<b>Current</b>	15 A
<b>Voltage</b>	400 V / 50 Hz / 3~
<b>Inlet</b>	Diameter 63.5 mm
<b>Dimensions (L x W x H)</b>	1170 x 690 x 1680 mm
<b>Weight</b>	170 kg

# Questions and answers

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

4 kW (112570B1, this page) delivers 299 m<sup>3</sup>/h at 3380 mmH<sub>2</sub>O at 8.7 A and 72 dB(A). 7.5 kW (112574B1) delivers 450 m<sup>3</sup>/h at 2345 mmH<sub>2</sub>O 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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