

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-55L (DT) EX (MFS) 2D Z21



The Tiger-Vac CD-55L (DT) EX (MFS) 2D Z21 is a medium-size mobile dust vacuum for combustible dust -- marked II 1/2D to EN 17348 DT. The model has a 55 L detachable tank on a heavy-duty powder coated cart and uses a static-dissipative PTFE star-shaped main filter with 8 folds (218638). Manual Filter Shaker (MFS) mechanically shakes the filter clean without opening the machine. The three-phase TEFC motor (3.4 kW, 8 A) delivers 306 m³/h at 2540 mmH₂O and tolerates continuous duty. HEPA filters can be added both upstream (215373A-02, 99.99 %) and downstream (212202, 99.995 % H14) for two-layer filtration. Wet recovery is available as an option -- contact us for advice on wet/dry accessories. A True Cyclone Separator at the suction inlet boosts recovery capacity.

APPLICATIONS

- General housekeeping in Zone 20/21 where 55 L capacity is needed
- Production with combined dry and occasional wet recovery (wet recovery available)
- Two-stage filtration with upstream and downstream HEPA options
- Star-shaped PTFE main filter for long life and easy cleaning
- Continuous duty with True Cyclone Separator for reduced filter load

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	55 L
Sound pressure	75 dB(A)
Filter class	H class
Filter type	HEPA opstroems (215373A-02, 99,99 % @ 0,3 um med plate, uden U-channel gasket og SD*-pre-filter) eller HEPA nedstroems (212202, 11" high, 99,995 % H14) -- tilvalg
Primary filter	Special Main Filter Assembly, SD* PTFE star-shaped (8) filter (pleated) -- part 218638
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 50 mm
Dimensions (L x W x H)	860 x 610 x 1450 mm
Weight	126 kg

Questions and answers

How does a PTFE star-shaped filter work?

The PTFE star-shaped filter (218638) is a star-shaped folded main filter with 8 folds. The star shape increases surface area compared to a flat filter of the same diameter, so airflow distributes over a larger area and the filter clogs more slowly. The PTFE coating means dust particles don't adhere as strongly as to an uncoated polyester filter -- so with Manual Filter Shaker the cake drops more easily into the tank. The star-shaped construction is also more durable under high flow rates and less prone to cracking from vibration. We recommend visual inspection every 250 operating hours and replacement at least annually.

What is the difference between upstream and downstream HEPA?

Upstream HEPA (215373A-02, 99.99 % @ 0.3 um) sits BEFORE the main filter in the airflow and acts as a pre-filter removing large particles before they reach the primary filter. Downstream HEPA (212202, 99.995 % H14) sits AFTER the main filter in the airflow and is the final filter before exhaust. The two HEPAs have different purposes: upstream protects the main filter and extends its life, while downstream protects the operator and environment from breakthrough. For pharmaceutical applications handling toxic active substances both HEPA options are combined for maximum safety. Contact us to select configuration.

Can it actually pick up liquids?

The brochure says 'Wet recovery available', but the CD-55L EX (MFS) 2D Z21 ships standard as a dry-only recovery unit (certified EN 17348 DT). Wet recovery is a configured option: the tank can be adapted, but wet recovery REQUIRES a float switch (anti-overfill) and a separate intermediate chamber, and this is not described in the standard brochure. We recommend you contact us with precise liquids and expected volumes before ordering so the correct wet/dry configuration can be specified. The ATEX II 1/2D certificate remains valid in wet operation only if the configuration is approved by the manufacturer.

Is it particularly suited for heavy dust?

Yes. The star-shaped PTFE filter (218638) combined with True Cyclone Separator at the suction inlet makes CD-55L particularly suited for dust forming heavier cakes (cement, gypsum, metal milling). The cyclone removes the heaviest particles by inertia before they reach the filter, significantly reducing filter load. For very fine or sticky dust (e.g. pharma fine powder) a CD-36L or CD-100L with dedicated cleaning mechanism is more suitable. For metal dust and construction dust CD-55L is a good choice.

Contact and advisory

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