

TIGER-VAC · II 3D EX H TC IIIC T125 C DC IP65 -- -5 C ≤ TA ≤ +37 C -- EN 17348 DT -- ATEX 1ST PARTY CERTIFIED

Tiger-Vac CD-55L (DT) EX (MFS) Z22 -- single-phase



The Tiger-Vac CD-55L (DT) EX (MFS) Z22 in single-phase configuration is the simple, easy entry to ATEX II 3D housekeeping at high air flow. Marked II 3D Ex h tc IIIC T125 C Dc IP65, EN 17348 DT, ATEX 1st party. A 230 V TEFC induction motor (2 kW, 13 A) for continuous duty 24/7 delivers 306 m³/h at 2030 mmH₂O and 75 dB(A). 55 L AISI 304 detachable tank, star-shaped Teflon-coated main filter with Manual Filter Shaker. A True Cyclone Separator at the suction intake significantly increases separation efficiency and extends filter life. Suitable for larger process housekeeping where simple single-phase 230 V supply is preferred over three-phase 400 V installations.

APPLICATIONS

- Process production in Zone 22 where single-phase 230 V is the standard supply
- Smaller facilities without three-phase outlets (small workshops, mobile installations)
- ATEX housekeeping where the 55 L tank gives long emptying intervals
- Combustible conductive dust (group IIIC: metal, coal, graphite)
- Industrial housekeeping where the TEFC motor gives continuous 24/7 operation

Technical specifications

ATEX marking	II 3D Ex h tc IIIC T125 C Dc IP65 -- -5 C <= Ta <= +37 C -- EN 17348 DT -- ATEX 1st party certified
Internal / external zone	-- / 22
Motor type	1-faset TEFC induction-motor, eksplosionsbeskyttet -- kontinuerlig drift 24/7
Airflow	306 m ³ /h
Vacuum	199 mbar (2030 mmH ₂ O)
Container	55 L
Sound pressure	75 dB(A)
Filter class	H class
Filter type	HEPA H14 (EN 1822, 99,995 % MPPS), aerosol leak-testet, OSHA-compliant -- HEPA upstream/downstream som tilvalg, ULPA U15 også tilvalg
Primary filter	Star-shaped Teflon-belagt SD-hovedfilter med Manual Filter Shaker
Cleaning system	Manual Filter Shaker (MFS)
Collection system	Detachable container
Material	AISI 304 rustfri stål (krop og tank)
IP class	IP65
Power	2.0 kW
Current	13 A
Voltage	230 V / 50 Hz / 1~
Inlet	Diameter 50 mm
Dimensions (L x W x H)	860 x 610 x 1450 mm
Weight	126 kg

Questions and answers

What is the difference between single-phase and three-phase CD-55L Z22?

Single-phase (112207B2-Z22) uses 230 V and 13 A and is ATEX category 3D. Three-phase (112209B1-Z22) uses 400 V and 8 A and is ATEX category 2D (marked at a higher protection class due to different motor protection). Drive specs are otherwise identical: 306 m³/h, 2030/2540 mmH₂O, 55 L tank, 126 kg weight. Choose single-phase if you have a 230 V outlet and can accept slightly lower vacuum; choose three-phase if you have a 400 V installation and want higher vacuum plus Z21 marking.

Why a True Cyclone Separator?

The True Cyclone Separator is a passive pre-separator mounted at the suction intake that uses centrifugal force to separate 70-80 % of the coarsest dust before it reaches the main filter. This significantly reduces filter loading and can extend filter life 3-5 times. For the user this means longer intervals between filter cleaning and lower operating cost.

What does ATEX 1st party certified mean?

The manufacturer (Tiger-Vac) self-declares that the product meets the ATEX directive requirements (module A: internal production control). This is the simplest form of ATEX compliance and is valid for category 3 products (Zone 2/22). Category 1 and 2 products require 3rd party Notified Body certification. The CD-55L in category 3D configuration is thus 1st party self-certified, which is the regulated level for Zone 22.

Can it pick up liquids?

No. The CD-55L Z22 is Dry Recovery Only -- for wet/dry recovery in Zone 22 see the CD-3 EX (W&D;) or CD-63L EX (W&D;) series.

Contact and advisory

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