

TIGER-VAC · II 2D EX H TB III C T125 C DB IP65 -- -5 C <= TA <= +37 C -- EN 17348 DT -- ATEX 1ST PARTY CERTIFIED

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



The Tiger-Vac CD-55L (DT) EX (MFS) Z22 in three-phase configuration (112209B1-Z22) is the more powerful variant of the CD-55L Z22 platform. Note: although Tiger-Vac's model name says "Z22", the formal ATEX category is 2D (corresponding to Zone 21) -- not 3D (Zone 22). This is because the three-phase TEFC motor has a higher protection level "tb" compared to the single-phase version's "tc". 400 V TEFC induction motor (3.4 kW, 8 A) delivers 306 m³/h at 2540 mmH₂O and 75 dB(A) -- about 25 % higher vacuum than the single-phase version. The rest of the package is identical: 55 L AISI 304 detachable tank, star-shaped Teflon-coated main filter, Manual Filter Shaker, True Cyclone Separator, 126 kg, 145 cm tall.

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 2D Ex h tb IIIC T125 C Db IP65 -- -5 C <= Ta <= +37 C -- EN 17348 DT -- ATEX 1st party certified
Internal / external zone	-- / 21
Motor type	3-faset TEFC induction-motor, eksplosionsbeskyttet -- kontinuerlig drift 24/7
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 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	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

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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