

TIGER-VAC · II 3D EX H TC IIIB T200 C DC IP6X -- -5 C <= TA <= +37 C -- EN 17348 DT -- ATEX 1ST PARTY CERTIFIED

Tiger-Vac 4D-55L EX DT HD (MRP) (EU)



The Tiger-Vac 4D-55L EX DT HD (MRP) (EU) is the Manual Reverse Purge variant of the 4D-55L Heavy Duty platform. Marked II 3D, EN 17348 DT, ATEX 1st party. As Thomas has confirmed, we carry only the 112117B variant -- other versions (112117C/D/E) exist but are either regionally specific or not in Particulair's portfolio. The reverse-purge system uses a conductive aluminised spun bond cartridge that is closed with a gate valve and purged backwards for effective cake release. 55 L AISI 430 detachable tank, dual bypass motor (375 m³/h, 2180 mmH₂O, 2100 W). 5 HEPA H14 filters individually factory-tested, plus safety filter and cage as backup for the purge cartridge. Conductive poly-liner recovery bag included.

APPLICATIONS

- Larger process housekeeping where 35 L tank and 375 m³/h flow are required
- Powder coating and foundry cleaning with high productivity
- Combustible non-conductive dust (group IIIB: wood, textile, sugar, organic powder)
- Industrial housekeeping in Zone 22 with a fixed 4-wheel cart platform
- Sites where the C series is too small but a CD-1200/2600 is too large

Technical specifications

ATEX marking	II 3D Ex h tc IIIB T200 C Dc IP6X -- -5 C <= Ta <= +37 C -- EN 17348 DT -- ATEX 1st party certified
Internal / external zone	-- / 22
Motor type	Dual bypass / dual speed Ametek heavy-duty motors -- 2100 W (2400 W max), Dust ignition protection by enclosure 't'
Airflow	375 m ³ /h
Vacuum	214 mbar (2180 mmH ₂ O)
Container	55 L
Filter class	H class
Filter type	5 x HEPA H14 (EN 1822, 99,99 % MPPS) individuelt fabriks-testet, OSHA-compliant -- 2 upstream og 3 downstream (215373A-01)
Primary filter	Conductive Aluminized Spun Bond reverse purge cartridge SD* m/safety filter og cage
Cleaning system	Manual Reverse Purge (MRP) -- conductive aluminized spun bond reverse purge cartridge med gate valve
Collection system	Detachable container
Material	AISI 430 rustfri stål (krop og tank)
IP class	IP6X
Power	2.1 kW
Current	10 A
Voltage	240 V
Inlet	Diameter 50 mm
Dimensions (L x W x H)	980 x 600 x 1380 mm

Questions and answers

What does "4D" stand for in the model name?

4D is Tiger-Vac's model designation for the dual-motor single-phase platform -- not a reference to four dimensions or four venturis. The entire 4D series shares the same Carriage with Suspended Motor Top (CSMT) construction where the two bypass motors hang from a common frame design above the tank platform itself. It is an industry-standard solution at Tiger-Vac for high-flow single-phase ATEX models.

Why IIIB and not IIIC?

IIIB means "non-conductive dust" (dust group B) and covers organic and insulating dust like wood dust, textile fibres, sugar, flour and polymer powder. IIIC covers conductive dust (metal, coal, graphite) where the ignition energy is lower and requires stricter construction. The Tiger-Vac 4D series is certified for IIIB; for IIIC dust (metal powder from 3D printing, coal dust, graphite) the C series (II 1/3D IIIC) or CD series (Z22 IIIC) must be used. If you are unsure of your dust group, contact us -- we will do a dust assessment together with you.

What is Dust Ignition Protection "t"?

"t" (tightness) is a protection method per EN 60079-31 where the entire motor enclosure is tight (IP6X) so fine dust cannot penetrate into the electrical parts. Combined with limitation of the surface temperature (T200 C), this ensures the unit cannot ignite dust in Zone 22 -- even if a layer of dust settles on top of the enclosure. It is the most robust construction method for industrial ATEX vacuums.

What is the difference between 4D-35L and 4D-55L?

Drive specs are identical (375 m³/h, 2180 mmH₂O, 2100 W, 5 HEPA H14). The difference is tank size: 4D-35L has a 35 L tank and 4D-55L has a 55 L tank. The 4D-55L platform is also somewhat wider (98 cm vs 60 cm) and more robust for continuous operation. Choose the 4D-35L for standard housekeeping; choose the 4D-55L if collection volume is high or frequent emptying must be avoided.

Contact and advisory

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