

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-35L EX DT MFS HEPA



The Tiger-Vac 4D-35L EX DT MFS HEPA is the larger single-phase ATEX II 3D vacuum with dual bypass motors and a 35 L detachable tank. Although it is single-phase (240 V, 50 Hz, 10 A), the two Ametek heavy-duty motors in parallel deliver a full 2100 W (2400 W peak) and 375 m<sup>3</sup>/h at 2180 mmH<sub>2</sub>O -- about 75 % more flow than the classic C series. Marked II 3D Ex h tc IIIB T200 C Dc IP6X, EN 17348 DT, ATEX 1st party self-certified. Dust Ignition Protection 't' (by enclosure) ensures that even the hot motor housing cannot ignite dust in Zone 22. 5 HEPA H14 filters individually factory-tested (2 upstream, 3 downstream) and PTFE-laminated main filter (218627). 4-wheel cart with tool basket and filter blockage indicator. Note: dust group is IIIB (non-conductive dust) -- for conductive dust see the C series.

## APPLICATIONS

- Larger process housekeeping where 35 L tank and 375 m<sup>3</sup>/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

<b>ATEX marking</b>	II 3D Ex h tc IIIB T200 C Dc IP6X -- -5 C <= Ta <= +37 C -- EN 17348 DT -- ATEX 1st party certified
<b>Internal / external zone</b>	-- / 22
<b>Motor type</b>	Dual bypass / dual speed Ametek heavy-duty motors -- 2100 W (2400 W max), Dust ignition protection by enclosure 't'
<b>Airflow</b>	375 m <sup>3</sup> /h
<b>Vacuum</b>	214 mbar (2180 mmH <sub>2</sub> O)
<b>Container</b>	35 L
<b>Filter class</b>	H class
<b>Filter type</b>	5 x HEPA H14 (EN 1822, 99,99 % MPPS) individuelt fabriks-testet, OSHA-compliant -- 2 upstream og 3 downstream (215373A-01)
<b>Primary filter</b>	Hovedfilter PTFE-lamineret SD* (218627) -- statisk afladende
<b>Cleaning system</b>	Manual Filter Shaker (MFS)
<b>Collection system</b>	Detachable container
<b>Material</b>	AISI 430 rustfri stål (krop og tank)
<b>IP class</b>	IP6X
<b>Power</b>	2.1 kW
<b>Current</b>	10 A
<b>Voltage</b>	240 V
<b>Inlet</b>	Diameter 50 mm
<b>Dimensions (L x W x H)</b>	710 x 600 x 1380 mm
<b>Weight</b>	53 kg

# Questions and answers

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## 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 m<sup>3</sup>/h, 2180 mmH<sub>2</sub>O, 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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