

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 (FRP-SIDEKICK)



The Tiger-Vac 4D-35L EX DT MFS HEPA (FRP-SIDEKICK) is Tiger-Vac's special shooting-range configuration of the 4D-35L platform -- equipped with a Front-Mounted Floor Brush (71 cm) that efficiently cleans backstops, bullet traps and large surfaces, plus an onboard SIDEKICK hose and wand for spot cleaning of smaller cartridges and corners. Two 50 mm suction ports with gate valves let the operator switch between floor brush and SIDEKICK without changing hoses. Marked II 3D, EN 17348 DT, ATEX 1st party. 5 HEPA H14 filters individually factory-tested (2 upstream, 3 downstream). Drive specs as 4D-35L MFS HEPA: 375 m<sup>3</sup>/h, 2180 mmH<sub>2</sub>O, 2100 W dual bypass, AISI 430 stainless steel.

## APPLICATIONS

- Shooting range maintenance -- backstops, bullet traps and gunpowder residue
- Lead dust and unspent gunpowder from indoor and outdoor shooting ranges
- Police and military shooting ranges with high-frequency cleaning cycles
- Paint booth cleaning where a large floor brush is essential
- Spot cleaning of nooks, cracks and small areas with the SIDEKICK hose

# 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>	1090 x 740 x 1380 mm
<b>Weight</b>	57 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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