

TIGER-VAC · II 1/2GD EX DB H IIB T4 GB / EX H TB IIIC T135°C DB IP65 -- INTERN: EX H IIC T6 GA / EX H IIIC T50°C DA -- LCIE 03  
ATEX 6295 X -- IECEx LCI 10.0040X -- EN 17348 DT

## Tiger-Vac CD-25L EX DT (MFS)



The Tiger-Vac CD-25L EX DT (MFS) is the compact 25 L variant of the CD-MFS family -- marked II 1/2GD to EN 17348 DT (Z1-21), i.e. category 1/2 for dust and gas simultaneously. It shares motor, flow, cleaning system and filtration with the CD-36L (MFS) HEPA, but has a smaller tank and smaller footprint -- suited for space-constrained pharmaceutical or chemical process rooms where 36 L is not needed and mobility matters. Manual Filter Shaker (MFS) knocks dust cake off the primary filter manually, the detachable 25 L tank can be lifted off the cart for quick emptying, and the HEPA H14 final filter ensures fine particles do not escape in the exhaust. Three-phase TEFC motor at 2.2 kW is standard (single-phase 1.5 kW as option). The whole unit is IP65 rated.

### APPLICATIONS

- Space-constrained pharmaceutical process rooms where 36 L is overkill
- Chemical laboratory installations in Zone 1/21 with moderate dust loads
- Mobile tasks where lower weight and smaller footprint are an advantage
- Process equipment with less dust production where quick batch emptying matters
- 1/2GD coverage in compact format without sacrificing motor performance or cleaning system

# Technical specifications

<b>ATEX marking</b>	II 1/2GD Ex db h IIB T4 Gb / Ex h tb IIIC T135°C Db IP65 -- Intern: Ex h IIC T6 Ga / Ex h IIIC T50°C Da -- LCIE 03 ATEX 6295 X -- IECEx LCI 10.0040X -- EN 17348 DT
<b>Internal / external zone</b>	20 / 21
<b>Motor type</b>	3-faset TEFC-motor (standard), eksplosionssikret (Ex db h IIB T4 Gb / Ex h tb IIIC T135°C Db), 2,2 kW / 4,8 A, 400 V / 50 Hz
<b>Airflow</b>	212 m <sup>3</sup> /h
<b>Vacuum</b>	249 mbar (2540 mmH <sub>2</sub> O)
<b>Container</b>	25 L
<b>Sound pressure</b>	72 dB(A)
<b>Filter class</b>	H class
<b>Filter type</b>	HEPA H14 (EN 1822-5, 99,995 % @ 0,3 µm MPPS)
<b>Primary filter</b>	Statisk ledende epitropic polyester primaerfilter med MFS-rystersamling
<b>Cleaning system</b>	Manual Filter Shaker (MFS) -- operatoer-aktiveret ryster paa siden roeger stoevkaken af filtret og lader den falde i beholderen
<b>Collection system</b>	Detachable container
<b>Material</b>	AISI 304 rustfri staal
<b>IP class</b>	IP65
<b>Power</b>	2.2 kW
<b>Current</b>	4.8 A
<b>Voltage</b>	400 V / 50 Hz / 3~ (standard) -- 230 V / 50 Hz / 1~ option
<b>Inlet</b>	Diameter 50 mm
<b>Dimensions (L x W x H)</b>	700 x 560 x 1500 mm
<b>Weight</b>	85 kg

# Questions and answers

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## When should I choose 25 L over 36 L?

Choose 25 L when dust production is moderate and space constraint outweighs tank size. Rule of thumb: at 212 m<sup>3</sup>/h / 2540 mmH<sub>2</sub>O a 25 L tank fills with fine dust in 2-4 hours of continuous collection (depending on dust type). With coarse or heavy dust (metal chips, mineral powder) 25 L can fill in under 30 minutes. For continuous large production choose the 36 L variant (cd-36l-ex-dt-mfs-hepa) so you empty less often. For smaller tasks or supervised batch operation 25 L is ample and gives lower weight (85 kg versus 99 kg) and smaller footprint (70 cm length versus 78 cm). Motor, flow and cleaning system are identical -- only the tank and chassis dimensions are smaller.

## What does Z1-21 in the model name mean?

Z1-21 is Tiger-Vac's usage note indicating the model is intended for Zone 1 (gas) and Zone 21 (dust). The actual ATEX marking is II 1/2GD -- category 1 internally (Zone 0/20) and category 2 externally (Zone 1/21). Zone 2 and Zone 22 are less strict and are covered automatically, so the model can also be used there without changing the certification. Z1-21 is thus a summary of the most demanding zones the model is designed for.

## What is MFS, and why is it suited for this application class?

MFS (Manual Filter Shaker) is a mechanical shaker system for the primary filter. The operator activates a lever on the side of the filter housing that shakes the filter so the dust cake falls into the tank. The benefit is simplicity -- no electronic valves, no compressed air supply, no timers requiring separate ATEX certification. This keeps overall system certification simple and maintenance low. MFS works best with dry, heavier dust types that release naturally from the filter surface. For fine, sticky dust types Manual Reverse Purge (MRP) can be more effective -- that variant is available on the CD-36L MRP ULPA model.

## Can it pick up liquids?

No. The CD-25L EX DT (MFS) is dry-only -- EN 17348 DT. For wet/dry in the same II 1/2GD class choose the Delfin 802 WD AIREX 1/2D-2/2G.

# Contact and advisory

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