

TIGER-VAC · II 1/3D EX H TC IIIC T85 C DC IP6X (EXTERNAL) -- EX H IIIC T85 C DA (INTERNAL) -- -5 C ≤ TA ≤ +37 C -- EN 17348 DT -- LCIE 15 ATEX 3061 -- IECEX LCIE 15.0048

## Tiger-Vac C-35L EX DT (MFS) BLSD



The Tiger-Vac C-35L EX DT (MFS) BLSD is Tiger-Vac's mid-size ATEX II 1/3D vacuum with Detachable Tank and Manual Filter Shaker. Marked II 1/3D Ex h tc IIIC T85 C Dc IP6X (External) / Ex h IIIC T85 C Da (Internal), EN 17348 DT compliance and IECEx LCIE 15.0048. The single-phase brushless motor (1100 W / 1.1 kW / 8 A) delivers 216 m<sup>3</sup>/h at 2250 mmH<sub>2</sub>O and 72 dB(A). The 35 L AISI 430 detachable tank makes emptying fast: open the clamp, lift the tank out, empty into an approved waste bin. The Manual Filter Shaker (MFS) shakes the static dissipative PTFE main filter (218627) clean before emptying, so the filter cake falls into the tank. Main filter area 3,480 cm<sup>2</sup>; 4 HEPA H14 filters individually factory-tested protect the exhaust air.

### APPLICATIONS

- Process production with moderate dust volume and continuous use -- DT makes emptying fast
- Pharma pilot and chemical industry where MFS keeps suction stable over long shifts
- ATEX housekeeping in process rooms where the 35 L tank is a good balance of size and mobility
- Combustible fine dust where PTFE main filter resists sticky cake and dust release
- BLSD motor for longer service intervals than the classic universal motor

# Technical specifications

<b>ATEX marking</b>	II 1/3D Ex h tc IIIC T85 C Dc IP6X (External) -- Ex h IIIC T85 C Da (Internal) -- -5 C ≤ Ta ≤ +37 C -- EN 17348 DT -- LCIE 15 ATEX 3061 -- IECEx LCIE 15.0048
<b>Internal / external zone</b>	20 / 22
<b>Motor type</b>	1-faset brushless BLSD-motor (1100 W / 1,1 kW / 8 A) -- forlænget motor-levetid og lavere termisk overflade (T85 C)
<b>Airflow</b>	216 m <sup>3</sup> /h
<b>Vacuum</b>	220 mbar (2250 mmH <sub>2</sub> O)
<b>Container</b>	35 L
<b>Sound pressure</b>	72 dB(A)
<b>Filter class</b>	H class
<b>Filter type</b>	HEPA H14 (EN 1822, 99,99 % MPPS), individuelt fabriks-testet -- 4 x HEPA-filtre i kabinettet (212304B-HD, 215372, 211854) -- 20.253 cm <sup>2</sup> filterflade
<b>Primary filter</b>	Hovedfilter PTFE/Epitropic polyester SD* m/stainless steel bands (218627 eller 215393-SD afhængigt af model)
<b>Cleaning system</b>	Manual Filter Shaker (MFS)
<b>Collection system</b>	Detachable container
<b>Material</b>	AISI 430 rustfri stål kabinet (AISI 304 tank som tilvalg på 4W EU-versionen)
<b>IP class</b>	IP6X
<b>Power</b>	1.1 kW
<b>Current</b>	8 A
<b>Voltage</b>	220-240 V / 50-60 Hz / 1~
<b>Inlet</b>	Diameter 50 mm
<b>Dimensions (L x W x H)</b>	640 x 640 x 1210 mm
<b>Weight</b>	40 kg

# Questions and answers

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## What does II 1/3D mean on this machine?

II 1/3D means category 1 internally and category 3 externally -- the highest protection level (Da) inside the collection tank and the lowest on the outer housing (Dc). In practice: the unit can recover from Zone 20 (dust continuously present) even though the powerhead itself sits in Zone 22 (dust rarely present). That is the typical ATEX housekeeping configuration in process production -- recovery happens at a hazardous point while the operator stays in the less hazardous area.

## What is the benefit of the BLSD motor?

BLSD = Brushless. The model delivers 1100 W / 1.1 kW / 8 A and 216 m<sup>3</sup>/h at 2250 mmH<sub>2</sub>O. The brushless motor has no carbon brushes, which extends life by about 4-5x (typically 5000 hours versus 1000-1500 hours for a universal motor) and gives a lower surface temperature (T85 C vs T200 C). This also means lower dust-ignition risk and 3rd party certified EN 17348 DT compliance. Plus: no carbon dust from brushes in the internal air path.

## What is the HEPA H14 setup on this model?

Every unit is supplied with 4 individually factory-tested HEPA H14 filters in the housing (212304B-HD as primary HEPA, 215372 and 211854 as tertiary). Total filter area is 20,253 cm<sup>2</sup> -- about 2 m<sup>2</sup>. The class is H14 per EN 1822, equivalent to 99.995 % MPPS (Most Penetrating Particle Size). That is the requirement EN 17348 DT places on ATEX vacuums for combustible dust including asbestos, lead and pharma CMR substances.

## Can it pick up liquids?

No. The entire C series is certified EN 17348 DT -- dry recovery only. For wet/dry recovery in Zone 20/22, a dedicated WD model must be used, such as the CD-63L EX (W&D;) variants. For liquid recovery in ATEX Kombi zones (II 2GD), see the ATEX-12A (4W) or (2+2W).

# Contact and advisory

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