

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-10 EX (2+2W) BLSD



The Tiger-Vac C-10 EX (2+2W) BLSD is the 2+2-wheel ATEX vacuum from Tiger-Vac's C series in the BLSD-motorised configuration recommended by Thomas. Marked II 1/3D per EN 17348 DT and IECEx 3rd party (LCIE 15 ATEX 3061). 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) -- about 11 % more flow than the classic universal-motor variants, but with about 4-5x longer life and a halved surface temperature (T85 C). 38 L tank with a 19 L disposable filter bag, 4 HEPA H14 filters individually factory-tested, and a full static dissipative tool kit. Main filter 3,480 cm<sup>2</sup> PTFE/Epitropic polyester with stainless steel bands, mounted in a white painted cage.

### APPLICATIONS

- Housekeeping in process production with continuous use and long shifts
- Combustible dust in pharma and chemical industry (Zone 20/22) with high filter class
- Pharma CMR and asbestos housekeeping with the poly-liner option
- Cleaning of process rooms where the brushless motor gives longer service intervals
- Sites where 2+2 wheel cart manoeuvring is preferable to a classic dolly

# 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>	38 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>	Ingen aktivt rens-system
<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 60 mm
<b>Dimensions (L x W x H)</b>	690 x 510 x 990 mm
<b>Weight</b>	24.5 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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