

TIGER-VAC · II 1/3D EX H TC III C T200 C DC IP6X (EXTERNAL) -- EX H III C T200 C DA (INTERNAL) -- -5 C ≤ TA ≤ +37 C -- EN 17348 DT -- LCIE 15 ATEX 3061 -- IECEx LCIE 15.0048

## Tiger-Vac C-7 EX (4W)



The Tiger-Vac C-7 EX (4W) is the compact single-phase explosion-protected vacuum from Tiger-Vac's C series -- just 77.5 cm tall and mounted on a 4-wheel dolly. Marked II 1/3D per EN 17348 DT and IECEx 3rd party (LCIE 15 ATEX 3061), suitable for internal Zone 20 + external Zone 22. Driven by a single-phase Ametek by-pass universal motor (1200 W / 1.2 kW / 5 A) delivering 194 m<sup>3</sup>/h at 2504 mmH<sub>2</sub>O and 72 dB(A). Includes 4 HEPA H14 filters (EN 1822, individually factory-tested) and a conductive recovery bag as standard. A 19 L disposable filter bag is the recovery medium. Ideal for 3D printer housekeeping, general process cleaning and applications where space is tight.

### APPLICATIONS

- 3D printer housekeeping and additive manufacturing clean-up
- General ATEX dust housekeeping in process production (Zone 22)
- Housekeeping in pharma pilot and chemical laboratories with combustible dust
- Cleaning of smaller machine components with ESD-sensitive dust
- Cleaning stations where a larger vacuum is too bulky for the space

# Technical specifications

<b>ATEX marking</b>	II 1/3D Ex h tc IIIC T200 C Dc IP6X (External) -- Ex h IIIC T200 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 Ametek by-pass universal-motor (1200 W / 1,2 kW / 5 A) -- T200 C overfladetemperatur
<b>Airflow</b>	194 m <sup>3</sup> /h
<b>Vacuum</b>	245 mbar (2504 mmH <sub>2</sub> O)
<b>Container</b>	19 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>	1.2 kW
<b>Current</b>	5 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>	430 x 430 x 775 mm
<b>Weight</b>	23 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 motor is fitted?

The Tiger-Vac C-7 EX (4W) delivers 1200 W / 1.2 kW / 5 A with a single-phase Ametek by-pass universal motor. Surface temperature is T200 C. The BLSD (brushless) version is available as an option for extended motor life and T85 C surface temperature.

## 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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