

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 (4W) STAINLESS STEEL ULPA BLSD



The Tiger-Vac C-10 EX (4W) STAINLESS STEEL ULPA BLSD is the high-purity variant of the C-10 EX platform -- specifically designed for pharma cleanrooms, ISO 4 and pharmaceutical manufacturing. The tank is AISI 316 electropolished and autoclavable, and the powerhead is AISI 304 (not autoclavable). The filter stack includes 2 ULPA U15 filters (one for the air path and one for the cooling air) plus HEPA H14 backup filtration -- combined 99.999 % filtration at 0.12 micron, which is the requirement ISO 14644-1 ISO 4 and pharma EU GMP Annex 1 set for particle control in cleanrooms. Marked II 1/3D BLSD with T85 C surface temperature and 75 dB(A) (slightly higher than the standard C-10 due to the extra ULPA resistance). 19 L disposable filter bag, 50 mm suction port, 4-wheel dolly. Tools include 323412 autoclavable floor tool, 323413 stainless crevice tool and 323564 silicone conical nozzle.

APPLICATIONS

- Pharma manufacturing in ISO 4 and ISO 5 cleanrooms with EU GMP Annex 1 requirements
- Pharmaceutical CMR substances (hormones, cytostatics, beta-lactam antibiotics)
- Sterile area in pharma industry and medical device cleanrooms
- Semiconductor and electronics fabs where 99.999 % particulate filtration is required
- Research and development in pharma pilot plants where cross-contamination must be minimised

Technical specifications

ATEX marking	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
Internal / external zone	20 / 22
Motor type	1-faset brushless BLSD-motor (1100 W / 1,1 kW / 8 A) -- forlænget motor-levetid og lavere termisk overflade (T85 C)
Airflow	216 m ³ /h
Vacuum	220 mbar (2250 mmH ₂ O)
Container	19 L
Sound pressure	75 dB(A)
Filter class	H class
Filter type	ULPA U15 (EN 1822, 99,999 % 0,12 micron) -- 219372 x 2 (en til luft, en til køling) + HEPA H14 211854 + 212304B-HD som baggrund
Primary filter	Hovedfilter PTFE/Epitropic polyester SD* m/stainless steel bands (218627 eller 215393-SD afhængigt af model)
Cleaning system	Ingen aktivt rens-system
Collection system	Detachable container
Material	AISI 316 electropolished autoklaverbar tank + AISI 304 powerhead (ikke autoklaverbar)
IP class	IP6X
Power	1.1 kW
Current	8 A
Voltage	220-240 V / 50-60 Hz / 1~
Inlet	Diameter 50 mm
Dimensions (L x W x H)	480 x 460 x 880 mm
Weight	30 kg

Questions and answers

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 m³/h at 2250 mmH₂O. 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 cm² -- about 2 m². 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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