

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 (MRP) BLSD



The Tiger-Vac C-35L EX DT (MRP) BLSD is the Manual Reverse Purge version of the C-35L platform. Marked II 1/3D, EN 17348 DT, IECEx 3rd party. The reverse-purge system uses a conductive aluminised spun bond cartridge instead of the classic filter-shaker cloth -- and a gate valve that can be closed one-handed. When the gate valve is closed and the purger is activated, a small amount of air flows backwards through the cartridge and breaks the whole filter cake loose -- effectively in one motion. This is the preferred solution for sticky, damp or very fine dust that does not shake off in a standard MFS. 35 L AISI 430 detachable tank, BLSD motor (1100 W, 216 m³/h, 72 dB(A)), 4 HEPA H14 filters individually factory-tested.

APPLICATIONS

- Pharma CMR powders (cytostatics, hormones) where sticky cake must be released effectively
- Sticky or damp dust from filled processes (e.g. nutrient powder in fermentation)
- Fine powders (sub 5 micron) where MFS vibration does not loosen the filter cake
- Cleanroom housekeeping where pollution-free filter cleaning is critical
- Lithium and battery powder with rising moisture content during handling

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	35 L
Sound pressure	72 dB(A)
Filter class	H class
Filter type	HEPA H14 (EN 1822, 99,99 % MPPS), individuelt fabriks-testet -- 4 x HEPA-filtre i kabinettet (212304B-HD, 215372, 211854) -- 20.253 cm ² filterflade
Primary filter	Conductive Aluminized Spun Bond reverse purge cartridge -- statisk afladende, m/safety filter og cage som baggrund
Cleaning system	Manual Reverse Purge (MRP) -- reverse-purge cartridge med gate valve, en-håndsbetjening (luk + purge samtidigt)
Collection system	Detachable container
Material	AISI 430 rustfri stål kabinet (AISI 304 tank som tilvalg på 4W EU-versionen)
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)	660 x 660 x 1190 mm
Weight	42 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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