

TIGER-VAC · II 1/2GD EXTERNAL: EX DB H IIB T4 GB -- EX H TB IIIC T135 C DB IP65 -- INTERNAL: EX H IIC T6 GA -- EX H IIIC T50 C DA -- -5 C ≤ TA ≤ +37 C -- EN 17348 DT -- LCIE 03 ATEX 6295 X -- IECEx LCI 10.0040X -- ATEX 3RD PARTY -- EXTENDED MIDDLE RING KONSTRUKTION -- AISI 304 STAINLESS STEEL

Tiger-Vac CD-10/7 EX (MRP-EXTENDED) 2GD Z1-2-21-22



The Tiger-Vac CD-10/7 EX (MRP-EXTENDED) 2GD Z1-2-21-22 (111015B1) is Tiger-Vac's high-capacity ATEX combined vacuum with EXTENDED Middle Ring construction. Marked II 1/2GD 3rd party (LCIE 03 ATEX 6295 X + IECEx LCI 10.0040X) -- approved for internal Zone 20 + gas Zone 1+2 + dust Zone 21+22 simultaneously. The EXTENDED Middle Ring construction significantly extends filter capacity compared to standard versions. 5.5 kW TEFC at 11.5 A delivers a full 500 m³/h at 2540 mmH₂O. 56.8 L AISI 304 detachable tank, 324 kg total weight (an industrial heavyweight -- 137 x 74 x 203 cm). Conductive aluminised spun bond reverse purge cartridge with see-thru polyester safety filter upstream. AISI 304 stainless steel construction (except cart). Suitable for larger pharma and chemical industry plants where continuous duty, combined zone marking and effective MRP cleaning are required.

APPLICATIONS

- Larger pharma and chemical industry plants with combined zone marking
- Continuous duty with 500 m³/h flow for multi-pickup or central dust extractions
- EXTENDED Middle Ring for extended filter life between servicing
- Pharma CMR dust where effective MRP purge is required
- Industrial plants with continuous 24/7 operation where 5.5 kW TEFC gives long motor life

Technical specifications

ATEX marking	II 1/2GD External: Ex db h IIB T4 Gb -- Ex h tb IIIC T135 C Db IP65 -- Internal: Ex h IIC T6 Ga -- Ex h IIIC T50 C Da -- -5 C <= Ta <= +37 C -- EN 17348 DT -- LCIE 03 ATEX 6295 X -- IECEx LCI 10.0040X -- ATEX 3rd party -- EXTENDED Middle Ring konstruktion -- AISI 304 stainless steel
Internal / external zone	20 / 21
Motor type	3-faset TEFC induktion -- eksplosionsbeskyttet (Ex db h IIB T4 Gb / Ex h tb IIIC T135 C Db IP65), 3rd party certified, kontinuerlig drift
Airflow	500 m ³ /h
Vacuum	249 mbar (2540 mmH ₂ O)
Container	56.8 L
Filter class	H class
Filter type	HEPA H14 (EN 1822, 99,995 % MPPS) tilvalg upstream/downstream -- aerosol leak-testet, OSHA-compliant. ULPA U15 også tilvalg
Primary filter	Conductive Aluminized Spun Bond reverse purge cartridge SD* m/safety filter (see-thru polyester safety filter element upstream)
Cleaning system	Manual Reverse Purge (MRP) m/EXTENDED Middle Ring konstruktion
Collection system	Detachable container
Material	AISI 304 rustfri stål kabinet (undtagen cart -- som er heavy duty powder coated -- AISI 304 cart som tilvalg til pharma)
IP class	IP65
Power	5.5 kW
Current	11.5 A
Voltage	400 V / 50 Hz / 3~
Inlet	Diameter 63.5 mm
Dimensions (L x W x H)	1370 x 740 x 2030 mm
Weight	324 kg

Questions and answers

What does "EXTENDED" mean in the model name?

EXTENDED refers to increased filter capacity through an extended Middle Ring construction. It gives longer filter life between service intervals -- an advantage in continuous industrial duty. EXTENDED versions are Tiger-Vac's high-end industrial grade in the CD-10/7 series.

What is the difference between MRP and APS?

MRP (Manual Reverse Purge) requires the operator to manually activate the purge cycle via gate valve and purge button. APS (Automatic Purge System) uses 3 fully integrated diaphragm valves with pneumatic or electric timers that automatically clean the filter at fixed intervals. Choose MRP if continuous monitoring is practical and you want direct operator control; choose APS when the unit runs unattended or on long shifts without need for operator intervention.

Why 324 kg weight -- so heavy?

The 5.5 kW TEFC motor with EXTENDED Middle Ring construction and full AISI 304 stainless steel housing plus heavy duty cart comes to 324 kg total. This is an industrial heavyweight -- not a mobile housekeeping machine. Weight is distributed on a cart with large diameter rolling wheels so it can be rolled by two operators over level floor. For lifting, a sloping ramp or forklift is needed.

Why a see-thru polyester safety filter upstream?

The see-thru polyester safety filter element sits upstream of the reverse purge cartridge and acts as a second filtration stage. It is see-thru (transparent) so the operator can visually see when it starts to clog up -- a simple diagnostic function. If the cartridge gets a tear or puncture, the safety filter catches the remaining dust and prevents release through the exhaust -- a mechanical fail-safe in compliance with the ATEX directive.

Contact and advisory

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