TIGER-VAC • CLEAN ROOM • OEB FACILITIES • ATEX ZONE 22

Tiger-Vac CWR-10 EX (CV)

Sealed stainless steel single-use canister (AISI 430 / 304) with dual ULPA U15 filtration, ATEX II 3D certification and EMI/RFI shielding — engineered for the safe collection of highly potent compounds in pharma and cleanroom environments.

- Sealed single-use canister in AISI 430 (12 and 20 L) or AISI 304 (40 L) — disposed of whole, no contact with contents
- 5-stage filtration with dual ULPA U15 — one for working air, one for cooling air
- ATEX II 3D — Zone 22 — first-party certified (EN 17348:2022)
- ISO Class 4 (ISO 14644-1) — OEB 4–5
- EMI/RFI shielded and ESD-safe — for electronics-sensitive production environments
- Filter blockage indicator and included static dissipative suction hose



Tiger-Vac CWR-10 EX (CV) — three models with sealed single-use canister

ATEX II 3D — EN 17348:2022 · ULPA U15 — EN 1822 / IEST-RP-CC001 · ISO Class 4 (ISO 14644-1) · OEB 4–5 · EMI/RFI shielded • ESD-safe

Quick facts	
ATEX	II 3D — Zone 22
Certification	First-party (EN 17348:2022)
Filtration	5 stages — dual ULPA U15
Cleanroom	ISO Class 4
OEB	OEB 4–5
Canister	12 / 20 / 40 L — single-use
Power	1,050 W / 240 V
Airflow	189 m^3/h
Vacuum	2,180 mm H_2O
Noise	75 dB(A)
EMI/RFI	Shielded
Type	Dry only

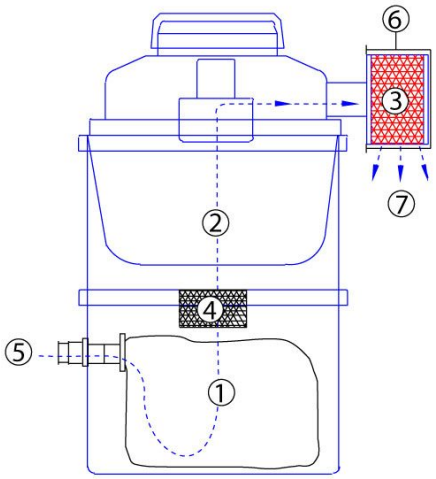
A containment system without equal in pharma

The CWR-10 EX (CV) is Tiger-Vac's answer to one of pharmaceutical manufacturing's most fundamental challenges: how do you collect extremely potent compounds without ever coming into direct contact with the collected material? The solution is a closed containment system in which the collection canister itself — a single-use vessel in stainless steel AISI 430 or 304 — is disposed of whole when full. No bag change. No filter exchange. The canister is not emptied. It is discarded in its entirety.

This means the operator never touches the collected material at any point in the process — not during operation, not during canister replacement, and not during disposal. This is not merely a procedural advantage. It is a fundamental design decision that makes the CWR-10 EX (CV) one of the most effective containment tools in the

pharmaceutical sector for OEB 4–5 compounds.

The containment system — how it works



Airflow diagram for CWR-10 EX CV containment system

From collection to disposal without contact

The airstream enters the sealed single-use canister, where the material is collected. The air then passes through disposable filter bags and a double cloth filter and on to two separate ULPA U15 filters — one for the working air and one for the cooling air.

The critical point is that **the material never leaves the canister**. When the canister is full, it is sealed and disposed of whole.

Vacuum connected. Single-use canister mounted in the machine.

Material collected directly into the sealed single-use canister.

Filter blockage indicator activates as the canister approaches capacity.

Canister removed and disposed of whole — no bag change, no exposure.



Optional hose stand #216932A for CWR-10 EX CV

Optional hose stand #216932A — contamination-free hose storage

Electropolished AISI 304 stand with hose hanger extension. Developed for Novartis. In pharmaceutical production, the floor is the most contaminated surface in the room — the stand ensures the suction hose never touches the floor and introduces particles to the product at the next point of use.

Technical specifications

Parameter	Value
Motor type	Bypass (Ametek® long life)
Power	1,050 W (1 kW)
Voltage	240 V, 50 Hz, single phase
Current	5 A
Airflow	189 m³/h
Vacuum pressure	2,180 mm H_2O
Noise level	75 dB(A)
Suction inlet	Ø38 mm
Cable length	10 m
Dimensions (W×L)	46×76 cm
Enclosure rating	IP6X
ATEX marking	II 3D — Ex h tc IIIB T200°C Dc IP6X
ATEX zone	Zone 22 (dust, external)
Certification	First-party (EN 17348:2022), ATEX Directive 2014/34/EU, EMC Directive 2014/30/EU
Operating temperature	−5°C to +37°C
Filtration	5 stages: disposable filter bag + cloth filter ×2 + ULPA U15 (working air) + ULPA U15 (cooling air)
EU filter class	Class H (EN 60335-2-69)
US filter class	ULPA U15 (EN 1822 / IEST-RP-CC001)
Collection system	Sealed single-use canister, AISI 430 / 304, 12 / 20 / 40 L
Cleanroom compatibility	ISO Class 4 (ISO 14644-1)
OEB suitability	OEB 4–5
Material — filter housing	Stainless steel AISI 430, electropolished
Material — single-use canister	AISI 430 (12L and 20L) / AISI 304 (40L)
EMI/RFI	Shielded
ESD	Safe (all accessories in static dissipative material)
Filter indicator	Filter blockage indicator (LED)
Collection type	Dry only

Models and part numbers

Model	Part no.	Canister	Dimensions (W×L)	Airflow	Vacuum
CWR-10 EX (CV) 12L	110542B	12 L	46×76 cm	189 m³/h	2,180 mm H_2O

Model	Part no.	Canister	Dimensions (W×L)	Airflow	Vacuum
CWR-10 EX (CV) 20L	110543B	20 L	46×76 cm	189 m³/h	2,180 mm H_2O
CWR-10 EX (CV) 40L	110544B	40 L	46×76 cm	189 m³/h	2,180 mm H_2O

Optional accessories

Hose stand in SS 304 (art. 216932A)	Electropolished AISI 304 stand with hose hanger extension. Developed for Novartis. Ensures contamination-free hose storage.
4-wheel cart in SS 316 (art. 211688C)	Electropolished AISI 316, grey conductive wheels.
Short suction hose (art. 323427-5)	Static conductive crushproof, Ø32 mm × 1.5 m.

Product images



Tiger-Vac CWR-10 EX CV



CWR-10 EX CV Containment Vac



Sealed single-use canister — 12L, 20L and 40L



Included suction hose and accessories in static conductive materials



Cable holder hook on the side of the powerhead



Optional hose stand #216932A in stainless steel

CONTACT
Particulair — Life Science Hub
Nordic specialist in industrial vacuum for pharma & life science
Højtoften 12, 2690 Karlslunde, Denmark
Tel: +45 70 23 12 03 · sales@particulair.com · particulair.eu/life-science/