

CLEAN ROOM • OEB FACILITIES • DRY RECOVERY ONLY

Tiger-Vac CR-1000 (CV)

The Tiger-Vac CR-1000 (CV) is a cleanroom vacuum system engineered specifically for the safe collection, containment and disposal of potent and carcinogenic compounds. A 5-stage filtration system with ULPA U15 filtration, an integrated safe containment canister and an autoclavable stainless steel Type 316 construction make this one of the most specialised tools available for OEB 4–5 environments in ISO Class 4 cleanrooms.

- Safe containment canister included — coated steel, single use, 7.6 L
- ULPA U15 (99.999 % at 0.12 µm) + HEPA H14 (99.995 % at 0.3 µm)
- 5-stage filtration — individually aerosol leak tested
- ISO Class 4 (ISO 14644-1) — OEB 4–5
- Autoclavable stainless steel Type 316 (filter chamber + wheel base)
- Low noise: only 60 dB(A) at 2 m
- 3 optional tool kits: Standard, ESD Safe, Autoclavable



Tiger-Vac CR-1000 (CV) containment vacuum for potent compounds in cleanroom environments

ULPA U15 — EN 1822 / IEST-RP-CC001 · HEPA H14 — EN 1822 / IEST-RP-CC001 · ISO Class 4 (ISO 14644-1) · OEB 4–5 · CE — Machinery Directive 2006/42/EC

Quick facts	
Filter	ULPA U15 + HEPA H14
ULPA efficiency	99.999 % at 0.12 µm
Cleanroom	ISO Class 4
OEB	OEB 4–5
Collection	Canister, 7.6 L
Power	1 kW / 240 V
Air flow	163 m³/h
Noise	60 dB(A) @ 2 m
Weight	11 kg
Type	Dry only
Autoclavable	Yes (chamber + base)

What is the Tiger-Vac CR-1000 (CV)?

The CR-1000 (CV) — where CV stands for Containment Vacuum — is a cleanroom vacuum from Tiger-Vac engineered specifically for the safe handling of potent and carcinogenic compounds. The vacuum is approved for ISO Class 4 (ISO 14644-1) and designed for OEB 4–5 environments where operator exposure limits are typically below 1 µg/m³.

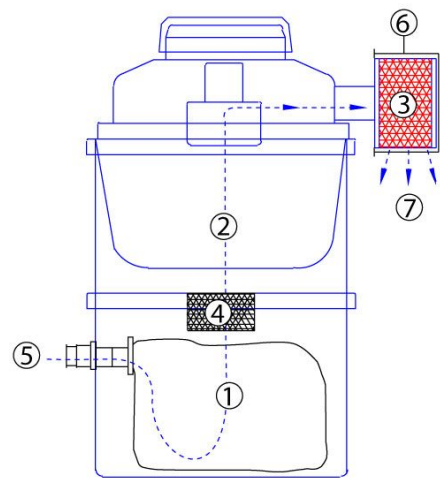
The defining feature of the CR-1000 (CV) is the integrated safe containment canister: a leak-proof, coated steel container with a 7.6-litre capacity. Inside the canister sits a disposable collection bag, and the canister is equipped with its own integrated HEPA filter — so when the canister is disconnected from the vacuum, all collected material remains sealed inside. The canister is disposed of as a closed unit. The operator never handles the collected substance directly.

The 5-stage filtration system passes air successively through the disposable bag (inside the canister), a PTFE laminated washable cloth filter, a safety filter, a HEPA H14 filter and finally a ULPA U15 exhaust filter with an efficiency of 99.999 % at 0.12 µm. Each system leaves Tiger-Vac's facility individually aerosol leak tested in accordance with IEST-RP-CC001.

Important use restriction: The CR-1000 (CV) is designed exclusively for dry recovery of powders and particles. It must not be used for liquids, slurries or wet material, as the motor is not protected against moisture.



Safe containment canister for Tiger-Vac CR-1000 (CV)



Airflow schematic for Tiger-Vac CR-1000 (CV) — 5-stage filtration

Technical specifications

Parameter	Value
Filter class EU	Class H (EN 60335-2-69)
Filter class USA	ULPA U15 (EN 1822 / IEST-RP-CC001)
ULPA filter efficiency	99.999 % at 0.12 µm • 99.9995 % at 0.18 µm (MPPS)
HEPA filter efficiency	99.995 % at 0.3 µm
Filtration	5-stage: disposable bag + PTFE laminated cloth filter + safety filter + HEPA H14 + ULPA U15

Parameter	Value
Collection system	Safe containment canister, 7.6 L, coated steel, single use
Cleanroom compatibility	ISO Class 4 (ISO 14644-1)
OEB suitability	OEB 4–5
Motor type	Thru-Flow
Power	1 kW / 1000 W
Voltage	240 V, 50 Hz, single phase
Current	4.3 A
Air flow	163 m ³ /h
Vacuum pressure	2,510 mmH ₂ O
Noise level	60 dB(A) at 2 m
Suction inlet	Ø38 mm
Dimensions	H 66 × W 41 × L 58 cm
Weight (vacuum only)	11 kg
Cord length	10 m
Recovery type	Dry only
Autoclavable	Yes — filter chamber + wheel base (AISI 316), excl. motor head

CE marking based on: EN 60204-1:2018 • EN 60335-1:2012 (A11:2014, A13:2017, A15:2021) • EN 60335-2-69:2012 • EN 60335-2-2:2010 (A11:2012, A1:2013) • EN 61000-6-2:2005 • EN 61000-6-4:2007 (A1:2011). Specifications subject to change without notice.

Filters and accessories

The CR-1000 (CV) is supplied without a tool kit as standard. Three optional kits are available for Ø32 mm (1.25").



HEPA H14 filter with safety filter for CR-1000 (CV)

HEPA H14 filter + safety filter

Part no. 212304 (ULPA U15) • Included



PTFE laminated cloth filter for CR-1000 (CV)

PTFE laminated cloth filter

Part no. 212503T • Included • Washable



Safe containment canister for CR-1000 (CV)

Safe containment canister

Part no. 212522 • Included • Single use



Standard accessories kit for CR-1000 (CV)

Accessories kit #1 – Standard

Part no. 323600 • Optional • Ø32 mm



ESD safe accessories kit for CR-1000 (CV)

Accessories kit #2 – ESD Safe

Part no. 323602 • Optional • Ø32 mm



Autoclavable accessories kit for CR-1000 (CV)

Accessories kit #3 – Autoclavable

Part no. 323604 · Optional · Ø32 mm

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