

TIGER-VAC • CLEAN ROOM • DRY RECOVERY ONLY

Tiger-Vac CR-1300D

High-performance cleanroom vacuum in electropolished AISI 316 stainless steel with dual ULPA U15 exhaust filtration. ISO Class 4 compatible. Autoclavable tank and wheels. ESD safe. 194 m³/h. 28 kg.

- Dual ULPA U15 filters (EN 1822) — one at working air exhaust, one at cooling air exhaust
- ULPA filtration efficiency 99.999 % at 0.12 µm — tested to IEST-RP-CC001
- Full AISI 316 construction with electropolished finish — filter housing and collection tank
- Tank and white nylon wheels autoclavable up to 121 °C
- Filter blockage indicator — LED alerts when collection bag is full
- Every unit aerosol leak tested as a complete assembly before leaving the factory



Tiger-Vac CR-1300D cleanroom vacuum in electropolished AISI 316 stainless steel

2 × ULPA U15 — EN 1822 / IEST-RP-CC001 · ISO Class 4 (ISO 14644-1) · Class M (IEC 60335-2-69) · CE — Machinery Directive 2006/42/EC · CE — Low Voltage Directive 2014/35/EU · EMC Directive 2014/30/EU

Quick facts	
Exhaust filters	2 × ULPA U15
ULPA efficiency	99.9995 % at MPPS
Cleanroom	ISO Class 4
Motor type	Bypass
Power	1.2 kW / 240 V
Airflow	194 m³/h
Sound	65/75 dB(A)
Tank	38 L — AISI 316
Bag capacity	19 L
Weight	28 kg
Recovery	Dry only
Surface	Electropolished
Autoclavable	Up to 121 °C

What is the Tiger-Vac CR-1300D?

The CR-1300D is a high-performance cleanroom vacuum designed specifically for the pharmaceutical, semiconductor, and microelectronics industries. It is built entirely from AISI 316 stainless steel with an electropolished finish that removes surface contamination and facilitates decontamination. The 38-litre recovery tank — including the white nylon wheels — is fully autoclavable up to 121 °C.

The filtration system uses a disposable collection bag and a polyester cloth filter as primary stages, followed by two downstream ULPA U15 filters (EN 1822) positioned at both the working air and cooling air exhausts — the approach required when a bypass motor is used in a cleanroom environment. In a bypass motor, cooling air

travels a separate path that bypasses the main filtration system and exits the machine directly. If this exhaust path is unfiltered, it risks contaminating the cleanroom with the particles disturbed during vacuuming. Tiger-Vac addresses this with two separate ULPA filters, one for each airstream.

ULPA filtration efficiency reaches 99.999 % at 0.12 micron and 99.9995 % at 0.18 micron (MPPS), tested and documented in accordance with IEST-RP-CC001. The vacuum is compatible with ISO Class 4 cleanrooms as defined in ISO 14644-1 and supports compliance with GMP requirements. Every unit is aerosol leak tested before leaving the factory.

The filter blockage indicator alerts the operator when the collection bag is approaching capacity, allowing the bag to be changed before airflow is noticeably reduced. In high-frequency operating environments, this prevents unplanned interruptions and maintains consistent suction performance. The standard model ships with white autoclavable nylon wheels; static conductive grey wheels (not autoclavable) are available as an option.

Important limitation: The CR-1300D is intended for dry recovery only. It must not be used for liquids, slurry, or wet material, as the suction motor is not protected against moisture ingress.

Technical specifications

Parameter	Value
Exhaust filters	2 × ULPA U15 (EN 1822 / IEST-RP-CC001) — working air and cooling air
ULPA filtration efficiency	99.999 % at 0.12 µm • 99.9995 % at 0.18 µm (MPPS)
ULPA filter area	20,253 cm ²
Primary filtration	Synthetic disposable filter bag (19 L, Class M) + polyester cloth filter (3,480 cm ²)
Cleanroom compatibility	ISO Class 4 (ISO 14644-1 • FED STD 209E Class 10)
Filter indicator	LED indicator for full collection bag
Motor type	2-stage bypass
Power	1.2 kW / 1200 W
Voltage	240 V, 50 Hz, single phase
Current draw	5 A
Airflow	194 m ³ /h
Vacuum	2,504 mmH ₂ O
Sound level	65/75 dB(A)
Inlet diameter	38 mm
Tank (total)	38 L — stainless steel AISI 316
Bag capacity	19 L (synthetic, 8,217 cm ²)
Wheel system	4-wheel dolly — autoclavable white nylon wheels (121 °C)
Static resistance	< 10 Ω (static dissipating)
Dimensions	H 80 × W 53 × D 61 cm
Weight (without accessories)	28 kg
Cable length	10.6 m
Recovery type	Dry only
Autoclavable	Tank + wheels up to 121 °C
Material — filter housing and tank	Stainless steel AISI 316, electropolished

CE marking based on: EN 60204-1:2018 • EN 60335-1:2012 (A11:2014, A13:2017, A15:2021) • EN 60335-2-2:2010 (A11:2012, A1:2013) • EN 61000-6-2:2005 • EN 61000-6-4:2007 (A1:2011)

Accessories and options

The CR-1300D ships with two ULPA U15 filters (included), polyester cloth filter and disposable collection bag as standard. Three accessories kits are available as options — choose the kit that matches your cleaning protocol and classification requirements.



Two ULPA U15 filters for Tiger-Vac CR-1300D — included

2 × ULPA U15 filter

Part no. 219372 • Included



Polyester cloth filter and cage for Tiger-Vac CR-1300D — included

Cloth filter + cage

Part no. 215393 • Included



Synthetic disposable filter bag for Tiger-Vac CR-1300D, part no. 218063-5

Disposable filter bag (5-pack)

Part no. 218063-5 • Included



Basic accessories kit for wet and dry recovery, 32 mm, Tiger-Vac CR-1300D

Basic accessories kit — wet/dry

Part no. 323306WD • 32 mm • Option



ESD-safe accessories kit #2, 32 mm, for Tiger-Vac CR-1300D

Kit #2 — ESD-safe accessories

Part no. 323602 • 32 mm • Option



Autoclavable accessories kit #3, 32 mm, for Tiger-Vac CR-1300D, part no. 323604

Kit #3 — Autoclavable accessories

Part no. 323604 • 32 mm • Option

Choosing the right accessories kit

The basic kit (323306WD) covers routine dry and wet cleaning with a clear urethane hose, stainless steel extension wands, and standard floor and crevice tools. Kit #2 (ESD-safe) is designed for environments with

electrostatic requirements: conductive hose, conductive plastic tools, and conductive nylon brushes throughout. Kit #3 (autoclavable) is the right choice when accessories need to be sterilised alongside the tank — the hose is EPDM, the wands are stainless steel, and the nozzles are food-grade silicone.

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/