

ATEX AREAS • GAS ZONE 1 • DUST ZONE 21 • PHARMA

CD-230V EX (CFB) PHARMA

Explosion-proof pharmaceutical vacuum (ATEX II 1/2GD) with ULPA U15 exhaust filter and conductive collection filter bag. Enclosed explosion-proof motor for continuous duty. 50 litre stainless steel Type 304 recovery tank. Designed for tablet recovery and process cleaning in pharmaceutical production – rated for Gas Zone 1 and Dust Zone 21. Sound level only 68 dB(A) with integrated muffler.

- ATEX II 1/2GD – Zone 0/20 internal + Zone 1/21 external
- ULPA U15 leak-tested (99.999% at 0.12 µm)
- Conductive collection filter bag (CFB) for safe waste handling
- 1.5 kW enclosed explosion-proof TEFC motor – continuous duty
- 50 L stainless steel Type 304 – fully conductive (<10 ohm)
- 68 dB(A) with integrated muffler
- Complete conductive tool kit included



Tiger-Vac CD-230V EX (CFB) PHARMA – explosion-proof pharmaceutical vacuum with ULPA U15

II 1/2GD – ATEX Directive 2014/34/EU · LCIE 03 ATEX 6295 X – Notified body 0081 · Ex db h IIB T4 Gb / Ex h tb IIIC T135°C Db IP65 · EN 17348 DT – Combustible dust · IECEx LCI 10.0040X

Core Data	
ATEX Marking	II 1/2GD
Gas Zones	Zone 0–2
Dust Zones	Zone 20–22
Power	1.5 kW
Air Flow	212 m³/h
Maximum Vacuum	2,540 mmH ₂ O
Filter Class	ULPA U15
Tank	50 L, stainless steel
Sound Level	68 dB(A)
Weight	97 kg

About CD-230V EX (CFB) PHARMA

The CD-230V EX (CFB) PHARMA is engineered specifically for pharmaceutical environments where explosion-proofing, material handling integrity, and advanced filtration must converge in a single solution. Certified to ATEX II 1/2GD (LCIE 03 ATEX 6295 X), it operates safely in both Zone 0 and Zone 20 (high-risk internal) as well as Zone 1/21 (normal process external). This makes it ideal for tablet manufacturing, dust recovery operations, and cleaning procedures where worker exposure must be minimized to the absolute limit.

The cornerstone of the design is the conductive collection filter bag (CFB) system. Unlike traditional vacuums where recovered material mixes directly with the exhaust filter, the CFB keeps powder continuously sealed in a conductive bag at the tank base. At change-out, the entire bag is removed as a single unit with zero dust release to the room. This design dramatically reduces worker inhalation exposure and ensures complete control over waste streams—a critical requirement in potent compound handling.

The ULPA U15 filtration (99.999% at 0.12 µm and 99.9995% at 0.18 µm MPPS) represents the highest filter class for dry recovery. It is not merely a practical choice; it is necessary when working with high-potency APIs with exposure limits below 1 µg/m³. The filter is leak-tested per EN 1822 and certified to release no more than 0.005% of particles during qualification.

Powered by a 1.5 kW TEFC motor (single phase, 230 V, 50 Hz), the vacuum delivers 212 m³/h air flow with a maximum vacuum of 2,540 mmH₂O. The motor is fully enclosed and explosion-proofed—no external moving parts or heat sources that could ignite gas or vapour. An integrated acoustic system reduces noise to just 68 dB(A), making the vacuum acceptable for all-day operation adjacent to manufacturing. The entire structure—tank, motor mount, wheel base—is stainless steel Type 304 with electrostatic resistivity below 10 ohm, eliminating any risk of static ignition.

Technical Specifications

Parameter	Value
ATEX Certificate	LCIE 03 ATEX 6295 X
ATEX Marking	II 1/2GD
Category	Category 2
External Gas	Ex db h IIB T4 Gb
External Dust	Ex h tb IIIC T135°C Db IP65
Internal Gas	Ex h IIC T6 Ga
Internal Dust	Ex h IIIC T50°C Da
Gas Zones	Zone 0, 1, 2
Dust Zones	Zone 20, 21, 22
Standard	EN 17348 DT – IECEx LCI 10.0040X
Motor Type	TEFC (totally enclosed fan cooled), single phase, explosion-proof
Power	1.5 kW (1500 W)
Supply Voltage	230 V, 50 Hz, 12.3 A
Air Flow Rate	212 m ³ /h
Maximum Vacuum	2,540 mmH ₂ O
Rated Vacuum (VRV)	1,780 mmH ₂ O
Filter Class	ULPA U15
Filter Efficiency	99.999% at 0.12 µm, 99.9995% at 0.18 µm (MPPS)
Collection System	Conductive collection filter bag (CFB), sealed
Tank Material	Stainless steel Type 304
Tank Capacity	50 L
Power Cord	10 metres
Suction Inlet	Ø50 mm
Sound Level	68 dB(A) with integrated muffler
Dimensions	L64 × W48 × H150 cm
Weight	97 kg
Material (all parts)	Stainless steel Type 304

Parameter	Value
Resistivity	<10 ohm (fully conductive)
Mounting	Carriage Base (CB) with 4 ESD wheels
Recovery Mode	Dry recovery only
Muffler	Integrated acoustic muffler included

Accessories and Connections



Collection Filter Bag (CFB), Static Dissipative
Collection Filter Bag (CFB)
Sealed conductive bag



ULPA U15 filter included
ULPA U15 Filter
Exhaust filter included



Main Cloth Filter, Static Dissipative

Cloth Filter

Conductive material, included



CD-120V-230V Tool Kit

Tool Kit

Conductive accessories included

Frequently Asked Questions

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/