

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

Tiger-Vac CD/EUR-36L EX DT (MRP) ULPA WITH SS CART

Explosion proof pharmaceutical vacuum (ATEX II 1/2 GD) with ULPA U15 filter included and manual reverse pressure cleaning (MRP). Compressed air briefly reverse-purges a conductive aluminized spun-bond cartridge, cleaning it without physical handling. Detachable 36 L tank on stainless steel cart with ESD wheels. Available in four EU variants with full or limited zone coverage.

- ATEX II 1/2 GD – Zone 0/20 internal + Zone 1/21 external
- ULPA U15 included (99.9995% at 0.18 micron MPPS)
- Manual reverse pressure cleaning (MRP) with compressed air
- Conductive aluminized spun-bond cartridge
- 36 L detachable tank on stainless steel cart with ESD wheels
- Multimeter (ground continuity tester) included



Tiger-Vac CD/EUR-36L EX DT (MRP) ULPA WITH SS CART – explosion proof ATEX vacuum

II 1/2 GD – ATEX Directive 2014/34/EU · LCIE 03 ATEX 6295 X – Notified body 0081 · IECEx LCI 10.0040X · Ex db h IIB T4 Gb / Ex h tb IIIC T135°C Db IP65 · EN IEC 60079-0:2018 / EN 60079-1:2014 / EN 60079-31:2014 · EN 17348 DT – Combustible dust collection · IP65

Key Data	
ATEX Marking	II 1/2 GD
Gas Zones	Zone 0–2 (112160)
Dust Zones	Zone 20–22 (112160)
Power	2.2 / 1.5 kW
Airflow	212 m³/h
Max Vacuum	2,540 mmH ₂ O
Filter	ULPA U15
Tank	36 L, detachable
Weight	99 kg
Muffler	Stainless steel

About Tiger-Vac CD/EUR-36L EX DT (MRP) ULPA WITH SS CART

The CD/EUR-36L EX DT (MRP) ULPA is designed for pharmaceutical manufacturing where manual reverse pressure cleaning (MRP) is combined with ULPA U15 filtration in a robust ATEX II 1/2 GD certified platform. The model is available in four EU variants: 112160B1-SS (400 V 2.2 kW, Zone 1-2-21-22), 112160B3-SS (230 V 1.5 kW, Zone 1-2-21-22), 112157B1-SS (400 V, Zone 21 only), and 112157B3-SS (230 V, Zone 21 only). The 112160 series with full zone coverage is the primary choice for pharmaceutical use.

The MRP system uses compressed air to briefly reverse-purge a conductive aluminized spun-bond cartridge, cleaning it without physical handling or filter removal. This method is particularly well suited for continuous operation in production environments where downtime must be minimized and filter efficiency must be maintained. The conductive cartridge material ensures that static charge is safely dissipated.

ULPA U15 filtration (99.9995% at 0.18 micron MPPS) delivers the extreme safety margin required by modern high-potency API production. The entire structure – stainless steel tank, cart, motor mount – is fully antistatic with resistivity below 10 ohm. The system is therefore safe even in Zone 0 and Zone 20 (high-risk explosive atmosphere internally).

With a 2.2 kW (400 V) or 1.5 kW (230 V) TEFC motor, the unit delivers 212 m³/h airflow at a maximum vacuum of 2,540 mmH₂O. The detachable 36 L tank (DT) ensures easy handling and batch separation. A multimeter for ground continuity testing is included. Noise level is approximately 70–72 dB(A) with the integrated muffler.

Technical Specifications

Parameter	Value
ATEX Certification	LCIE 03 ATEX 6295 X
ATEX Marking	II 1/2 GD
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
Temperature Range	–5°C to +37°C
Standard	EN 17348 DT – IECEx LCI 10.0040X
Motor Type	TEFC, continuous duty
Power (400 V, 112160B1-SS)	2.2 kW, 4.8 A, 3-phase – Zone 1-2-21-22
Power (230 V, 112160B3-SS)	1.5 kW, 12.3 A, single-phase – Zone 1-2-21-22
Frequency	50 Hz
Airflow	212 m ³ /h
Max Vacuum	2,540 mmH ₂ O
Vacuum (VRV)	1,780 mmH ₂ O
Filter Class	ULPA U15 – included
Primary Filter	Conductive aluminized spun-bond cartridge – included
Filter Cleaning	Manual reverse pressure (MRP)
Inlet	Ø50 mm
Recovery Tank	36 L, detachable (DT)
Dimensions	L78 x W56 x H178 cm
Weight	99 kg
Power Cord	10 m
Muffler	Stainless steel with sound insulation – included
Multimeter	Ground continuity tester – included

Accessories and Connections



Detachable recovery tank and filter chamber

Detachable Tank & Filter Chamber

Recovery tank



ULPA U15 exhaust filter included

ULPA U15 Filter

Exhaust filter, included



Conductive aluminized spun-bond reverse purge cartridge

MRP Cartridge

Conductive spun-bond, included



38 mm ESD tool set

38 mm ESD Tool Set

OE1-5, included



50 mm ESD tool set

50 mm ESD Tool Set

OE2, optional

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/