

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

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

Explosion proof pharmaceutical vacuum (ATEX II 1/2 GD) with ULPA U15 filter included as standard, manual filter shaking (MFS) via conductive star-shaped cage cartridge, and detachable 36 L tank on stainless steel cart with ESD wheels. Vertical CSMT mount. Stainless steel muffler included. Classified for Zone 1 gas and Zone 21 dust. Available in 400 V three-phase and 230 V single-phase.

- ATEX II 1/2 GD – Zone 0/20 internal + Zone 1/21 external
- ULPA U15 included (99.9995% at 0.18 micron MPPS)
- Manual filter shaking (MFS) – conductive star-shaped cage cartridge
- 36 L detachable tank on stainless steel cart with ESD wheels



Tiger-Vac CD/EUR-36L EX DT (MFS) 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
Dust Zones	Zone 20–22
Power	2.2 / 1.5 kW
Airflow	212 m³/h
Max Vacuum	2,540 mmH ₂ O
Filter	ULPA U15
Tank	36 L, detachable
Noise	72 dB(A)
Weight	113 kg

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

The CD/EUR-36L EX DT (MFS) ULPA is designed for pharmaceutical processes where explosion protection and ULPA filtration must be combined with robust manual filter shaking. The unit is ATEX II 1/2 GD certified for both Zone 0/20 (high-risk zone internally) and Zone 1/21 (normal process zone externally), making it well suited for tablet manufacturing, powder filling and cleaning operations in highly controlled environments.

Filtration is based on a conductive star-shaped cartridge with cage – not a traditional cartridge. Manual filter shaking (MFS) means the operator briefly closes the inlet and allows airflow to reverse across the filter, causing collected dust to fall back into the tank. This method is particularly well suited for intermittent use and inventory vacuuming where compressed air is not always available on site.

The ULPA U15 filtration (99.9995% at 0.18 micron MPPS) is the highest filter class for dry exhaust and delivers the extreme high-potency safety margin that modern pharmaceutical manufacturing demands. The entire machine – tank, motor mount, stainless steel cart with ESD wheels – is fully antistatic with resistivity below 10 ohm, eliminating the risk of static ignition in explosive atmospheres.

With a 2.2 kW (400 V three-phase) or 1.5 kW (230 V single-phase) TEFC motor, the unit delivers 212 m³/h airflow with a maximum vacuum of 2,540 mmH₂O. The detachable 36 L tank (DT) allows easy changeover between products without cross-contamination. Noise level is 72 dB(A) with the integrated stainless steel muffler, making it suitable for daily operation in pharmaceutical production.

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)	2.2 kW, 4.8 A, 3-phase
Power (230 V)	1.5 kW, 12.3 A, single-phase
Frequency	50 Hz
Airflow	212 m³/h
Max Vacuum	2,540 mmH ₂ O
Vacuum (VRV)	1,780 mmH ₂ O
Filter Class	ULPA U15 – included
Filter Efficiency	99.9995% at 0.18 µm (MPPS)
Primary Filter	Conductive star-shaped cartridge with cage – 8,584 cm²
Filter Cleaning	Manual filter shaking (MFS)
Noise Level	72 dB(A) with muffler
Inlet	Ø50 mm
Recovery Tank	36 L, detachable (DT)
Cart	Stainless steel cart with ESD wheels
Mounting	Vertical CSMT
Dimensions (400 V)	L78 x W61 x H191 cm
Dimensions (230 V)	L76 x W61 x H191 cm
Weight	113 kg
Power Cord	10 m

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



Internal upstream HEPA filter

Internal Upstream HEPA

Option (factory-installed)



Conductive star-shaped cartridge with cage

Star-Shaped Cartridge

With cage, 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

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