

ATEX AREAS • ZONE 0-2 GAS • ZONE 20-22 DUST • COMPACT

Tiger-Vac CD/EUR-25L EX DT (MFS)

Compact explosion proof vacuum (ATEX II 1/2 GD) with true cyclone separator at the inlet, manual filter shaking (MFS) and detachable 25 L tank. The cyclone separator significantly improves suction performance and reduces filter loading. HEPA H14 and ULPA U15 both available as options. Available in 400 V three-phase and 230 V single-phase.

- ATEX II 1/2 GD – Zone 0/20 internal + Zone 1/21 external
- True cyclone separator at inlet – pre-separates heavy particles
- Manual filter shaking (MFS) with star-shaped cage cartridge
- HEPA H14 and ULPA U15 both available as options
- Compact 25 L detachable tank – ideal for smaller production areas



Tiger-Vac CD/EUR-25L EX DT (MFS) – ATEX explosion proof vacuum with cyclone separator

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
Cyclone	True separator
Filter Options	HEPA / ULPA
Tank	25 L, stainless
Weight	77.5 kg

About Tiger-Vac CD/EUR-25L EX DT (MFS)

The CD/EUR-25L EX DT (MFS) is a compact yet fully capable explosion proof vacuum designed for smaller pharmaceutical production lines, pilot batches and API support operations. Certified ATEX II 1/2 GD, it operates safely in Zones 0–2 gas and Zones 20–22 dust. The compact 25 L tank and reduced footprint make this model ideal for crowded cleanroom environments where floor space is at a premium.

The true cyclone separator at the inlet is the defining feature of this design. As dust-laden air enters the vacuum, the cyclone pre-separates large and medium particles before they reach the filter cartridge. This dramatically extends filter life, maintains consistent suction performance over longer collection cycles, and reduces filter-shaking frequency. For industrial applications with high dust throughput, the cyclone extends filter replacement intervals from hours to days or weeks.

Filtration is based on a conductive star-shaped cartridge with cage and manual filter shaking (MFS) as standard. Both HEPA H14 (99.995% at 0.3 micron) and ULPA U15 (99.9995% at 0.18 micron) are available as downstream upgrade options. Choose HEPA for general pharmaceutical operations and ISO 4–5 cleanroom support. Choose ULPA when handling highly potent APIs with strict occupational exposure limits.

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 at 2,540 mmH₂O maximum vacuum. The detachable 25 L tank is lighter to handle than larger models and ensures easy batch separation. The entire structure is fully antistatic (below 10 ohm) and explosion protected. ISO 4 cleanroom compatible when fitted with HEPA or ULPA filtration.

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 m ³ /h
Max Vacuum	2,540 mmH ₂ O
Vacuum (VRV)	1,780 mmH ₂ O
Filter Options	HEPA H14 (option) / ULPA U15 (option)
Primary Filter	Conductive star-shaped cartridge with cage
Filter Cleaning	Manual filter shaking (MFS)
Special Feature	True Cyclone Separator at inlet – included
Inlet	Ø50 mm
Recovery Tank	25 L, stainless steel Type 304, detachable (DT)
Dimensions	L70 x W55 x H147 cm
Weight	77.5 kg
Power Cord	10 m

Accessories and Connections



HEPA H14 filter

HEPA H14 Filter

Option (downstream)



Internal upstream HEPA filter

Internal Upstream HEPA

Option (factory-installed)



Conductive star-shaped cartridge with cage

Star-Shaped Cartridge

With cage, included



Conductive polyliner recovery bag

Conductive Polyliner Bag

Optional



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/