

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

Tiger-Vac EXP1-55L DT EXTENDED (MFS) RE HEPA

Explosion proof industrial vacuum (ATEX II 2GD) with large 55 L detachable tank for collecting large volumes of fine powder. HEPA H14 included as standard. Teflon-laminated cloth filter with manual filter shaking (MFS). Four-wheel cart with ESD wheels. 1 kW TEFC motor, 224 m³/h. Classified for Zone 1 gas and Zone 21 dust.

- ATEX II 2GD – Zone 1 gas + Zone 21 dust
- HEPA H14 included (99.995% at 0.3 micron)
- Teflon-laminated cloth filter with manual shaking (MFS)
- 55 L detachable tank on four-wheel cart with ESD wheels



Tiger-Vac EXP1-55L DT EXTENDED (MFS) RE HEPA – ATEX explosion-proof industrial vacuum

II 2GD – ATEX Directive 2014/34/EU · LCIE 03 ATEX 6297 – Notified body 0081 · Ex d IIA T3 Gb / Ex t IIIC T200°C Db IP6X · EN 17348 DT – Combustible dust collection · IP6X

Key Data	
ATEX Marking	II 2GD
Gas Zones	Zone 1–2
Dust Zones	Zone 21–22
Power	1 kW
Airflow	224 m³/h
Max Vacuum	1,550 mmH ₂ O
Filter	HEPA H14
Tank	55 L, detachable
Noise	78 / 85 dB(A)

About Tiger-Vac EXP1-55L DT EXTENDED (MFS) RE HEPA

The EXP1-55L DT EXTENDED is designed for high-volume fine powder collection in ATEX environments. The extended designation indicates a taller tank design for increased capacity. With a 55 L detachable tank, this model handles large batches of collected dust without frequent tank swaps. Certified ATEX II 2GD under LCIE 03 ATEX 6297, it operates safely in Zone 1 gas and Zone 21 dust atmospheres.

HEPA H14 filtration is included as standard, providing 99.995% efficiency at 0.3 micron. The Teflon-laminated cloth filter resists dust adhesion and enables effective manual filter shaking (MFS). The MFS mechanism uses hand-cranked shaking to dislodge particles from the cartridge, giving operators full visibility and control throughout the cleaning cycle. The 38 mm ESD tool kit ensures grounding integrity during collection.

The EXP1 series carries its own ATEX certification (LCIE 03 ATEX 6297, II 2GD) which covers Zone 1 gas and Zone 21 dust. This is distinct from the CD/EUR series which has a higher II 1/2 GD rating and IIB gas group. The EXP1 is rated for IIA gas group with external T3 temperature classification.

The 1 kW single-phase TEFC motor delivers 224 m³/h airflow with 1,550 mmH₂O maximum vacuum. The integrated muffler produces 78 dB(A) at standard configuration and 85 dB(A) without muffler. The four-wheel cart features ESD-conductive wheels and is fully antistatically bonded for safe operation. Note: The datasheet does not list dimensions or weight – contact Particulair for these details.

Technical Specifications

Parameter	Value
ATEX Certification	LCIE 03 ATEX 6297
ATEX Marking	II 2GD
External Gas	Ex d IIA T3 Gb
External Dust	Ex t IIIC T200°C Db IP6X
Temperature Range	–5°C to +37°C
Standard	EN 17348 DT
Motor Type	TEFC, single-phase
Power	1 kW (1000 W)
Voltage	230 V, 50 Hz, 4.5 A
Airflow	224 m ³ /h
Max Vacuum	1,550 mmH ₂ O
Noise Level	78 / 85 dB(A)
Filter Class	HEPA H14 – included
Filter Efficiency	99.995% at 0.3 µm
Primary Filter	Teflon-laminated cloth filter (SD) with cage – included
Filter Cleaning	Manual filter shaking (MFS)
Inlet	Ø38 mm
Recovery Tank	55 L, detachable (DT)
Power Cord	15 m
IP Rating	IP6X

Accessories and Connections



EXP1-55L DT Extended — angle view A

EXP1-55L DT — Angle View A

Product detail



EXP1-55L DT Extended — angle view B

EXP1-55L DT — Angle View B

Product detail



EXP1-55L DT Extended — angle view C

EXP1-55L DT — Angle View C

Product detail



HEPA H14 filter included

HEPA H14 Filter

Included



Teflon-laminated cloth filter with cage

Teflon-Laminated Cloth Filter

With cage, included



Conductive polyliner recovery bag

Conductive Polyliner Bag

Included



38 mm ESD tool set

38 mm ESD Tool Set

OE1-5, included

CONTACT**Particulair — Life Science Hub**

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