

ATEX · II 2GD · GAS ZONE 1 · DUST ZONE 21 · ISO CLASS 4

EXP1-35L (DT) RE HEPA (MFS)

Explosion-proof industrial vacuum (ATEX II 2GD) with HEPA H14 exhaust filter and large 35 litre detachable recovery tank. Full antistatic protection below 10 ohms. Enclosed explosion-proof motor. Manual filter shaker (MFS) for on-the-fly cleaning. Cleanroom compatible (ISO Class 4). For dry recovery of combustible dust and flammable gases in pharmaceutical and industrial production.

- ATEX II 2GD — Gas Zone 1 + Dust Zone 21
- Large 35 L detachable recovery tank
- HEPA H14 plus ULPA option
- Manual filter shaker (MFS) for on-the-fly cleaning
- Full stainless steel (SS 304)
- Less than 10 ohm antistatic protection
- ISO Class 4 cleanroom-compatible



Tiger-Vac EXP1-35L (DT) RE HEPA (MFS)
explosion-proof vacuum with large 35L tank

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 · IP6X

Quick facts	
Certification	ATEX II 2GD
Tank	35 L detachable
HEPA	H14 incl.
Motor	1 kW TEFC
Air flow	224 m³/h
Vacuum	1.550 mmH ₂ O
Weight	47 kg

About the EXP1-35L (DT) RE HEPA (MFS)

The EXP1-35L (DT) RE HEPA (MFS) is Tiger-Vac’s largest model in the EXP1 ATEX series. With a recovery tank of 35 litres, it delivers significantly more capacity than the compact 20-litre version (EXP1-20L), while maintaining the same proven performance and ATEX certification. The extra volume makes it ideal for extended operations in production environments where frequent tank changes would disrupt workflow and reduce productivity.

The vacuum is ATEX II 2GD-certified under LCIE 03 ATEX 6297 and designed for use in both gas and dust zones. Externally, it is approved for Zone 1 gas (IIA group, low-energy gases such as propane) and Zone 21 dust, thereby also covering lower zones: Zone 2 gas and Zone 22 dust. Internally, it meets EN 17348 DT for combustible dust (Zone 20). Fully stainless steel construction (SS 304) ensures superior durability in chemical and pharmaceutical environments.

The manual filter shaker (MFS) allows operators and maintenance personnel to clean the filter on the fly without interrupting work. The system includes HEPA H14 as standard and offers ULPA U15 as an upgrade for highly critical applications. Antistatic protection below 10 ohms throughout ensures safe handling of electrostatic-sensitive materials.

ISO Class 4-compatible (ISO 14644-1), meaning the vacuum can be positioned directly in cleanroom environments without compromising classification. Equipped with a handle and mounted on a DT cart (dynamic transport), it can be moved easily within the facility.

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
Internal classification	EN 17348 DT
Temperature range	-5°C to +37°C
Gas zones	Zone 1, Zone 2
Dust zones	Zone 21, Zone 22, Zone 20 (internal)
Motor type	TEFC, single-phase, enclosed
Power	1 kW (1000 W)
Voltage	230 V, 50 Hz
Current	4.5 A
Air flow	224 m ³ /h
Vacuum max	1.550 mmH ₂ O
Sound level	78/85 dB(A)
Suction port	Ø50 mm
Cart	DT (Dynamic Transport) with 4 wheels
Filter cleaning	Manual filter shaker (MFS)
Recovery tank	35 L, detachable, stainless steel
Material	Full SS 304 (cart base excepted)
HEPA filter	H14, 99.995% at 0.3 µm — included
ULPA filter	Optional (U15)
Filter configuration	Pre-filter (SD) + cloth filter (SD) + HEPA H14
Antistatic protection	<10 ohm
ISO Class 4	Yes (ISO 14644-1)
Dimensions (L×W×H)	66 × 56 × 119 cm
Weight	47 kg
Cord length	15 m
Recovery type	Dry only (DT)

Included Accessories



Static dissipative tool kit for EXP1-35L

Tool kit (SD)



Static dissipative cloth filter for EXP1-35L

Cloth filter (SD)



Conductive polyliner container for EXP1-35L

Conductive polyliner bag



HEPA H14 filter for EXP1-35L

HEPA H14 filter

Options

- **ULPA U15 filter** — Upgrade from HEPA H14 to ULPA U15 for even higher filtration efficiency (99.999% at 0.12 µm)
- **Conductive polyliner bag** — Optional for simple and safe emptying of collected combustible dust

CONTACT

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