

ATEX AREAS • GAS ZONE 1 • DUST ZONE 21 • ISO CLASS 4

EXP1-20L (DT) RE HEPA (MFS)

Explosion proof industrial vacuum (ATEX II 2GD) with HEPA H14 exhaust filter, detachable 25 litre recovery tank and full antistatic protection below 10 ohms throughout the system. Enclosed explosion proof motor. Manual filter shaker. Cleanroom compatible (ISO Class 4). For dry recovery of combustible dust and flammable gases in pharmaceutical and industrial production.

- ATEX II 2GD — Zone 1 gas + Zone 21 dust
- 25L detachable tank — easy emptying
- HEPA H14 + ULPA upgrade — cleanroom grade
- Full stainless steel 304 — pharmaceutical duty
- Antistatic <10 ohms — throughout
- Manual filter shaker (MFS) — maintenance
- 1 kW TEFC motor — single-phase 230 V



Tiger-Vac EXP1-20L (DT) RE HEPA (MFS) — Explosion proof ATEX II 2GD vacuum with 25L 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	25 L detachable
HEPA	H14 incl.
Motor	1 kW TEFC
Air Flow	224 m³/h
Antistatic	<10 ohms
Material	SS 304
Weight	45 kg

About EXP1-20L (DT) RE HEPA (MFS)

The EXP1-20L (DT) RE HEPA (MFS) is Tiger-Vac’s largest model in the EXP1 series — an uncompromising explosion-proof vacuum engineered for pharmaceutical and industrial production where high throughput and safe handling of flammable gases and combustible dust are non-negotiable. Since 1998, the EXP1 series has defined the standard for ATEX compliance by combining technical robustness with operational flexibility.

Construction is solid stainless steel 304 except for the cart (stainless steel cart available as an option). The 25-litre detachable recovery tank makes it straightforward to change or empty without dismantling the main unit. A sealed explosion-proof TEFC motor rated 1 kW (230 V, single-phase) delivers 224 m³/h air throughput with maximum vacuum at 1.550 mmH₂O. The manual filter shaker (MFS) means straightforward maintenance — you simply shake the filter to discharge particles between cycles, with no need for additional energy.

EXP1-20L achieves ATEX II 2GD certification under LCIE 03 ATEX 6297. Externally it is approved for Zone 1 (gas, group IIA) and Zone 21 (dust). Internally it meets EN 17348 DT, confirming safe recovery of combustible dust in Zone 20 environments (for example, the filter housing). Everything in the system is antistatic protected below 10 ohms — from the suction hose to the wheels. The HEPA H14 filter comes standard with 99.995% efficiency. ULPA

filters and conductive polyliner bags are optional upgrades.

The vacuum is ISO Class 4 compatible for controlled manufacturing environments and carries no exclusions for pharmaceutical use. The 15-metre power cord and optional 4-wheel cart make it practical to move between work areas. It includes as standard a tool kit, main cloth filter, pre-filter, and static-dissipative tools (SD).

Technical Specifications

Parameter	Value
Model	EXP1-20L (DT) RE HEPA (MFS)
Part Number	110364B
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
Gas Zones	Zone 1, Zone 2
Dust Zones	Zone 21, Zone 22, Zone 20 (internal)
Motor Type	TEFC, single-phase
Power	1 kW (1000 W)
Voltage	230 V, 50 Hz
Current	4.5 A
Air Flow	224 m³/h
Max Vacuum	1.550 mmH ₂ O
Sound Level	78 dB(A) (intake) / 85 dB(A) (exhaust)
Suction Inlet	Ø50 mm
Recovery Tank	25 L, stainless steel 304, detachable
Material	Stainless steel 304 (except cart — stainless steel cart optional)
Antistatic Protection	<10 ohms throughout
HEPA Filter	H14, 99.995% at 0.3 µm — included
ULPA Filter	Optional (U15)
Filter Cleaning	MFS (manual filter shaker)
Cleanroom Class	ISO Class 4 (ISO 14644-1)
Dimensions (L × W × H)	66 × 56 × 109 cm
Weight	45 kg
Power Cord Length	15 m
Recovery Mode	Dry recovery only

Included Accessories



Static-dissipative tool kit included

Tool Kit (SD)



Static-dissipative cloth filter included

Cloth Filter (SD)



Conductive polyliner bag included

Polyliner Bag (incl.)



HEPA H14 filter included

HEPA H14 Filter

Optional Upgrades

- **ULPA U15 Filter** — Upgrade from HEPA H14 to ULPA for higher filtration efficiency (99.9995%)
- **Conductive Polyliner Bag** — Optional for safe and convenient emptying of recovered material
- **Stainless Steel Cart** — Cart normally supplied in mild steel; stainless steel option available

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/