

ATEX · II 2GD · ZONE 1/21 · ACTIVATED CARBON FILTER

EXP1-10 (4W) RE HEPA (MRAC)

ATEX-certified wet and dry vacuum with an integrated activated carbon filter (MRAC) that adsorbs toxic fumes and gases. HEPA H14 filter included as standard.

- ATEX II 2GD — Zone 1 gas + Zone 21 dust
- MRAC activated carbon filter for toxic fumes
- HEPA H14, 99.995% at 0.3 µm included
- Wet and dry collection in a single unit



Tiger-Vac EXP1-10 (4W) RE HEPA (MRAC) — ATEX certified wet and dry vacuum with activated carbon filter

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/LC — Combustible dust / Flammable liquids · IP6X

Quick facts	
Certification	ATEX II 2GD
Carbon filter	MRAC incl.
HEPA	H14 incl.
Collection	Wet + dry
Motor	1 kW TEFC
Airflow	224 m³/h
Weight	37 kg

About the EXP1-10 (4W) RE HEPA (MRAC)

The EXP1-10 (4W) RE HEPA (MRAC) is the only model in the Tiger-Vac EXP1 range that ships with an integrated activated carbon filter as standard. MRAC stands for Middle Ring with Activated Carbon — a filtration stage positioned between the cloth filter and the HEPA filter that effectively adsorbs toxic fumes and gases during collection.

Certified ATEX II 2GD under LCIE 03 ATEX 6297, the vacuum is approved for both gas and dust zones. Externally it covers Zone 1 and Zone 2 (gas group IIA) as well as Zone 21 and Zone 22 (dust). Internally it complies with EN 17348 DT/LC — suitable for combustible dust and flammable liquids (Zone 20 internal).

The unit handles both wet and dry collection with a dry capacity of 22.7 litres and a liquid capacity of 28.5 litres. Its four-stage filter train — pre-filter (static dissipative), cloth filter (static dissipative), activated carbon filter (MRAC) and HEPA H14 — ensures effective capture of particles, vapours and gases alike.

Powered by a 1 kW TEFC motor (230 V, single phase), the vacuum delivers 224 m³/h airflow and up to 1,550 mmH₂O vacuum pressure. Mounted on four ESD-safe castors, it moves easily between workstations, while the 15-metre power cord provides generous reach.

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/LC
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
Power	1 kW (1,000 W)
Voltage	230 V, 50 Hz
Current	4.5 A
Airflow	224 m³/h
Max vacuum	1,550 mmH ₂ O
Noise level	78/85 dB(A)
Inlet diameter	Ø38 mm
Trolley	4 castors (ESD-safe)
Filter cleaning	None
Dry collection	22.7 L
Liquid capacity	28.5 L
HEPA/ULPA filter area	6,500 cm²
Cloth filter area	3,480 cm²
HEPA filter	H14, 99.995% at 0.3 µm — included
ULPA filter	Optional
Filter configuration	Pre-filter (SD) + cloth filter (SD) + activated carbon (MRAC) + HEPA H14
Dimensions (L×W×H)	48 × 46 × 119 cm
Weight	37 kg
Cord length	15 m

Included accessories



Nitrile tools and accessories included with EXP1-10 MRAC

Tool kit (Nitrile)



Static dissipative cloth filter included

Cloth filter (SD)



Static dissipative pre-filter included

Pre-filter (SD)



Liquid filter included with EXP1-10 MRAC

Liquid filter

Options

- **ULPA filter** — Upgrade from HEPA H14 to ULPA for even higher filtration efficiency
- **Conductive polyliner bag** — For simple and safe disposal of collected material

CONTACT

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