

TIGER-VAC · II 2GD EX D IIA T3 GB / EX T IIIC T200°C DB IP6X -- LCIE 03 ATEX 6297 -- EN 17348

# Tiger-Vac EXP1-40L (4W) RE HEPA (FR-P) DRY



The Tiger-Vac EXP1-40L (4W) RE HEPA (FR-P) DRY is purpose-built for recovery of flammable and toxic powders -- unspent gunpowder, lead contaminants and pyrotechnic residues. Certified II 2GD to EN 17348 for simultaneous Zone 1 gas and Zone 21 dust, with a 38 litre collection container and 4-wheel dolly. FR-P stands for "Firing Range - Pyrotechnic" and reflects that the construction is approved for the specific risks of shooting ranges and ammunition factories, where the dust itself can contain impact-sensitive material. HEPA H14 final filter (EN 1822-5, 99.995 % at MPPS) and a static-dissipative poly liner ensure collected dust can be disposed of without direct contact. 1.0 kW TEFC motor, 224 m<sup>3</sup>/h, 1550 mmH<sub>2</sub>O, AISI 304 stainless construction.

## APPLICATIONS

- Shooting ranges -- daily cleaning of bays and firing chambers
- Ammunition depots and military installations
- Ammunition and pyrotechnic manufacturing -- unspent gunpowder and residues
- Pyrotechnic fireworks factories with simultaneous gas and dust zones
- Defence industry and civil gun range servicing

# Technical specifications

<b>ATEX marking</b>	II 2GD Ex d IIA T3 Gb / Ex t IIIC T200°C Db IP6X -- LCIE 03 ATEX 6297 -- EN 17348
<b>Internal / external zone</b>	-- / 21
<b>Motor type</b>	1-faset TEFC-motor, eksplosionssikret (Ex d IIA T3 Gb / Ex t IIIC T200°C Db), 1.0 kW / 4.5 A
<b>Airflow</b>	224 m <sup>3</sup> /h
<b>Vacuum</b>	152 mbar (1550 mmH <sub>2</sub> O)
<b>Container</b>	38 L
<b>Sound pressure</b>	78 dB(A)
<b>Filter class</b>	H class
<b>Filter type</b>	HEPA H14 (EN 1822-5, 99,995 % @ 0,3 µm MPPS), 211027B
<b>Primary filter</b>	Main filter assembly SD (211013A) med rustfri staalbur elektropoleret (212734A) + forfilter SD (212007)
<b>Cleaning system</b>	Ingen (manuel) -- filter skiftes eller bankes rent
<b>Collection system</b>	Detachable container
<b>Material</b>	AISI 304 rustfri staal
<b>IP class</b>	IP6X
<b>Power</b>	1.0 kW
<b>Current</b>	4.5 A
<b>Voltage</b>	230 V / 50 Hz / 1~
<b>Inlet</b>	Diameter 50 mm
<b>Dimensions (L x W x H)</b>	480 x 740 x 1040 mm
<b>Weight</b>	34.5 kg

# Questions and answers

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## What does FR-P specifically mean?

FR-P stands for "Firing Range - Pyrotechnic" and is Tiger-Vac's own product designation for models designed for shooting ranges and pyrotechnic production. The specific risk is that the dust itself can contain unspent gunpowder, primer substances or pyrotechnic residues that ignite on friction or spark. The entire design is therefore extraordinarily focused on eliminating any ignition source: TEFC motor, static-dissipative materials throughout (under 10 ohms resistance), grounding system, and a conductive poly liner so collected material can be disposed of without direct contact or electrostatic risk.

## Why is this model dry-only?

The DRY variant (111334B) is certified EN 17348 DT for combined dust recovery. For wet recovery, the W&D; variant (111335B) exists as a separate product page. The FR-P series does have an open liquid-recovery option even on the DRY model (floater system can be retrofitted), but the certified and sold configuration is dry-only.

## How do I safely dispose of lead-containing dust?

Lead particles from shooting ranges are both chemically toxic (heavy metal) and under certain conditions pyrotechnic. The procedure is: collect in the conductive poly liner (212100S) while the machine is grounded, close the liner with the drawstring and seal, transport via mechanical lift (not hand) and dispose as hazardous waste per local environmental legislation. Lead particles must never enter normal household waste. The operator should wear PPE (mask, gloves, safety glasses). Always follow local regulations -- Particulair can obtain the applicable Danish rulebook.

## Can the unit be retrofitted for wet recovery?

Yes. Tiger-Vac has a liquid recovery conversion kit (floater + replacement primary filter to polypropylene wet type) that fits 10/15/25 gallon exp proof vacs. However: this changes the model's certified use configuration and should be approved by a notified body before use in a formal ATEX installation. Many customers simply buy the W&D; variant (111335B) at purchase if wet recovery is a known use case.

# Contact and advisory

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## PARTICULAIR

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