

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) W&D;



The Tiger-Vac EXP1-40L (4W) RE HEPA (FR-P) W&D; is the wet/dry variant of the FR-P series -- same ATEX II 2GD certification to EN 17348 (category 2 for both gas and dust, Zone 1 and Zone 21), same 38 litre collection, same motor and flow -- but with an additional 38 litre liquid capacity via a built-in floater and dedicated liquid filter assembly (211010). This makes it usable where the shooting range or production involves water-based cleaning on top of dry recovery: cleaning concrete floors with water-based agent alongside gunpowder dust recovery, wet rinsing of primer seats, cleaning after wetted pyrotechnic components. Static-dissipative poly liner and SD accessories are standard. The housing is slightly longer and narrower than the DRY variant (104 x 53 x 61 cm vs 104 x 74 x 48 cm), reflecting the floater and liquid filter components.

APPLICATIONS

- Shooting ranges with simultaneous floor cleaning and gunpowder dust recovery
- Pyrotechnic production where wet quenching is part of the process
- Ammunition and primer production with wet cleaning of stations
- Defence and military where both water-based detergent and dust are handled
- Fireworks factories requiring DT/LC functionality in the FR-P class

Technical specifications

ATEX marking	II 2GD Ex d IIA T3 Gb / Ex t IIIC T200°C Db IP6X -- LCIE 03 ATEX 6297 -- EN 17348
Internal / external zone	-- / 21
Motor type	1-faset TEFC-motor, eksplosionssikret (Ex d IIA T3 Gb / Ex t IIIC T200°C Db), 1.0 kW / 4.5 A
Airflow	224 m ³ /h
Vacuum	152 mbar (1550 mmH ₂ O)
Container	38 L
Sound pressure	78 dB(A)
Filter class	H class
Filter type	HEPA H14 (EN 1822-5, 99,995 % @ 0,3 µm MPPS), 211027B
Primary filter	Main filter assembly SD (211013) + liquid filter assembly SD (211010) + forfilter SD (212007). Skift primaerfilter ved overgang toer/vaed.
Cleaning system	Ingen (manuel) -- filter skiftes eller bankes rent
Collection system	Detachable container
Material	AISI 304 rustfri staal
IP class	IP6X
Power	1.0 kW
Current	4.5 A
Voltage	230 V / 50 Hz / 1~
Inlet	Diameter 50 mm
Dimensions (L x W x H)	610 x 530 x 1040 mm
Weight	38 kg

Questions and answers

How do you switch between dry and wet?

For dry recovery the main filter assembly (211013) is used -- an SD epitropic polyester cloth filter that retains fine dust before the HEPA stage. When switching to wet recovery, the operator removes the dry filter and installs the liquid filter assembly (211010) -- a polypropylene 300 micron filter with a float. The floater system automatically shuts off suction when the liquid reaches max (38 L), so liquid never reaches the filter chamber or HEPA. The procedure takes under 5 minutes. Read the instructions carefully as cross-contamination of filters can damage the HEPA.

Why does it say EN 17348 DT instead of DT/LC?

The Tiger-Vac factsheet specifies only EN 17348 DT for the FR-P series -- that is combined dust recovery. This is because LC certification (liquid collection) requires dedicated test protocols that have not been performed for the FR-P class. It does not mean it cannot handle liquids mechanically (the W&D; variant does have 38 L liquid capacity), but that the ATEX certification officially covers only the dry side. Therefore use only non-flammable, non-chemically-aggressive liquids, and consult Particulair for unclear uses.

Can I pick up ionic water-based cleaning agents?

Non-ionic and non-flammable water-based cleaning agents in proportional dilution (typically 1:100 to 1:500) are generally OK. Never use strong acids or bases, no organic solvents (alcohol, acetone), no products with flash point below 60 °C. Note that AISI 304 stainless is good against most agent types, but chloride-containing detergents can cause pitting on long-term exposure. When in doubt: contact us with the agent's safety data sheet.

How different are DRY and W&D; in practice?

Configuration: DRY is 48 cm long and 74 cm wide, 34.5 kg; W&D; is 61 cm long and 53 cm wide, 38 kg. They share the same height (104 cm) and same motor. W&D; weighs 3.5 kg more and has a slightly different silhouette due to the floater installation and liquid filter chamber. Both can handle all uses that are OK on DRY, but only W&D; can officially handle liquids. Price-wise, W&D; is typically 15-20 % more expensive than DRY.

Contact and advisory

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