

TIGER-VAC · II 2GD EX H IIC T6 GB EX H IIIC T85 C DB -4 C <= TA <= +37 C EN 17348 DT

Tiger-Vac ATEX-12A (2+2W)



The Tiger-Vac ATEX-12A (2+2W) is the manoeuvring-oriented variant of the pneumatic ATEX-12A line -- the same II 2GD certification and the same drive specs as the 4W model, but mounted on a 2+2 wheel cart with 2 fixed front wheels and 2 swivel rear wheels for fast direction changes in confined areas. Liquid capacity is reduced to 28.5 L because of the different cart geometry, but the dust tank is still 38 L and the rest of the package is identical: pneumatic single venturi, AISI 430 stainless construction, HEPA H14 aerosol leak-tested, no electrical parts in the suction circuit.

APPLICATIONS

- Confined areas in refineries and process plants where a 4-wheel dolly is too rigid
- Operator-led housekeeping where the unit follows a single person around
- Wet and dry recovery in Zone 1/21 where mobility matters more than maximum liquid capacity
- Asbestos and lead housekeeping per OSHA and EN 1822 H14
- Smaller process bays and pilot plants with multiple shifting work points

Technical specifications

ATEX marking	II 2GD Ex h IIC T6 Gb Ex h IIIC T85 C Db -4 C <= Ta <= +37 C EN 17348 DT
Internal / external zone	-- / 21
Motor type	Single venturi, pneumatisk drift -- ingen elektriske dele i sugekredsen
Airflow	187 m ³ /h
Vacuum	274 mbar (2790 mmH ₂ O)
Container	38 L
Sound pressure	68 dB(A)
Filter class	H class
Filter type	HEPA H14 (EN 1822, 99,995 % MPPS) aerosol leak-testet, OSHA-compliant -- Tiger-Vac 212304B-HD
Primary filter	Main filter assembly PTFE-lamineret med ring 214279 til poly tanks (211430T)
Cleaning system	Ingen aktivt filterrens-system -- HEPA og hovedfilter skiftes ved fuld mætning
Collection system	Detachable container
Material	AISI 430 rustfri stål, krop og opsamlingskammer
Supply pressure	5,5 bar
Air supply hose	Diameter 12.7 mm
Venturi units	1 pcs
Inlet	Diameter 50 mm
Dimensions (L x W x H)	550 x 600 x 1020 mm

Questions and answers

Why pneumatic and not electric?

In combined zones with both gas Zone 1 and dust Zone 21 electric drive is generally not allowed -- even ATEX-certified electric motors have hot surfaces and contact elements that can act as ignition sources under fault conditions. Pneumatic venturi drive has no moving electrical parts: the compressed air alone creates the vacuum through the venturi nozzle. That is the safest construction for Category 2 areas.

Which compressor do I need?

A minimum of 15 HP (about 11 kW) installed compressor capacity is recommended. The compressed-air supply must be 5.5 bar with a flow of 16.5–21.2 L/s (approximately 990–1272 NI/min), fed through a 1/2" (12.7 mm) air hose. Refrigerant-dried air (PDP +3 °C or better) is recommended to avoid condensation in the venturi nozzles, and a separate pressure regulator (219841) ensures stable operation.

Can it pick up liquids?

Yes. The ATEX-12A (4W) is certified for wet and dry recovery -- 47.3 L liquid capacity with a dedicated liquid filter (211394) that engages automatically when liquid is detected. The unit also handles combustible liquids because venturi drive is spark-free. For dry-only recovery with automatic poly-liner emptying, see the 2+2W MR variant.

What is the difference between 4W, 2+2W and 2+2W MR?

Drive and filter specs are identical (187 m³/h, 38 L tank, 68 dB(A), HEPA H14). The difference is in cart configuration and recovery type: the 4W has a 4-wheel dolly and the largest liquid capacity (47.3 L). The 2+2W has 2 fixed plus 2 swivel wheels for better manoeuvrability but only 28.5 L liquid capacity. The 2+2W MR is dry recovery only and is supplied with a poly-liner system (212100S-5 + 213780 retainer plate) for safe disposal of the recovered material.

Contact and advisory

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