

ATEX-10A (40L) HEPA



Tiger-Vac ATEX-10A 40L HEPA pneumatic ATEX vacuum cleaner

Metal powder processes — including selective laser melting (SLM), direct metal laser sintering (DMLS) and electron beam melting (EBM) — generate fine, combustible metallic dust. Titanium, aluminium, stainless steel and reactive alloy powders can form explosive atmospheres in both Zone 1 (gas) and Zone 21 (dust). The Tiger-Vac ATEX-10A (40L) HEPA is designed precisely for this environment: a pneumatically driven vacuum with ATEX II 2GD certification, 40 litres of stainless steel 304 tank capacity, HEPA filtration and a resistance below 10 ohms throughout the entire system.

Because the motor is air-driven, there are no electrical ignition sources inside the vacuum. The unit can run continuously without heat build-up or wear — a decisive advantage in production environments where downtime is costly. At 68 dB(A), the noise level is among the lowest in its class for pneumatic equipment.

Dry recovery for metal powders

The ATEX-10A (40L) is configured for dry recovery: fine metal dust is captured in the 40-litre stainless steel tank through a combination of mechanical pre-separation and downstream HEPA filtration. The H14 HEPA filter retains 99.97% of particles at 0.3 micron, ensuring that nothing escapes into the surrounding atmosphere. Emptying is straightforward, and the tank can be lined with conductive disposable bags for dust-free disposal.

Technical specifications

Parameter	Value
Motor type	Pneumatic (air-operated)
Air flow	187 m³/h
Vacuum pressure	2790 mmH ₂ O
Input air pressure	5.5 bar
Input air volume	16.5–21.2 L/s
Minimum compressor	15 HP
Air line diameter	1/2" (12.7 mm)
Tank capacity	40 litres
Tank material	Stainless steel 304

Parameter	Value
Filter	HEPA H14, 99.97% at 0.3 µm
ATEX classification	II 2GD
Ex marking (gas)	Ex h IIC T6 Gb – Zone 1
Ex marking (dust)	Ex h IIIC T85°C Db – Zone 21
Sound level	68 dB(A)
Suction inlet	38 mm
Dimensions (L×W×H)	66 × 56 × 132 cm
Weight	52.2 kg
Operating temperature	0°C ≤ Ta ≤ +40°C
Standard	EN 17348:2022
Item number	113117 / 113117-3D (with tool kit)

Included accessories



HEPA filter



Pressure regulator



3D tool kit

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