

3D PRINTING • ATEX II 1/3D • ZONE 20 INTERNAL • IECEX

C-10 EX (IT-40L) CFE HEPA

The most stringently certified electric model in the IT-40L series.
ATEX II 1/3D with Zone 20 protection inside the collection container.
Third-party certified by LCIE — both ATEX and IECEx. Bypass motor 1.2 kW, brushless motor available.

- ATEX II 1/3D — Zone 20 internal • Zone 22 external
- IECEx LCIE 15.0048 — internationally recognised certification
- Water immersion (wet mix) — combustible powder neutralised on entry
- CFE coalescing HEPA filter — 99.97 % at 0.3 µm
- Bypass motor 1.2 kW • brushless motor available
- 72 dB(A) • 28.1 kg • 194 m³/h • 10.6 m cord
- EN 17348 WT • EN IEC 60079-0:2018 • NFPA 484



Tiger-Vac C-10 EX (IT-40L) CFE HEPA — ATEX II 1/3D Zone 20 wet mix immersion vacuum for combustible metal powder

ATEX II 1/3D — LCIE 19 ATEX 1001 X • IECEx LCIE 15.0048 • Zone 20 internal • Zone 22 external • EN 17348:2022 WT • NFPA 484

Quick facts	
ATEX	II 1/3D
Internal zone	Zone 20
External zone	Zone 22
IECEX	LCIE 15.0048
Motor	Bypass 1.2 kW
Air flow	194 m³/h
Filter	CFE HEPA + 2×H14
Container	AISI 304
Weight	28.1 kg
Sound level	72 dB(A)

What is the Tiger-Vac C-10 EX (IT-40L) CFE HEPA?

The C-10 EX is the electric model in the IT-40L series with the most stringent ATEX protection. The classification II 1/3D means that the inside of the collection container is certified to Zone 20 — the highest dust protection category, covering environments where an explosive dust atmosphere is present continuously or for long periods. Externally the machine is rated for Zone 22. This split internal/external classification reflects the physical reality of wet mix inerting: the container interior is always in contact with collected powder and must be treated as the most critical zone, even when the surrounding workspace presents a comparatively low risk.

The machine carries two independent third-party certificates: ATEX type examination certificate LCIE 19 ATEX 1001 X and IECEx certificate IECEx LCIE 15.0048. IECEx certification is recognised in over 50 countries outside the EU — including Australia, South Africa, the Middle East and Asia — and is relevant for companies that export products manufactured on the equipment or that operate under international supplier and quality requirements. Both certificates are issued by LCIE (Notified Body 0081).

The filtration system is particularly thorough. Working air passes through a coalescing HEPA filter (CFE) that captures moisture and fine particles from the immersion bath. In addition, HEPA H14 filters cover the motor's cooling air intake and cooling air exhaust, so all air streams — including motor cooling air — are filtered before leaving the machine. With the brushless motor option, four HEPA H14 filters are fitted instead of two.

Important restriction: The C-10 EX uses water as the immersion medium — never oil. It is designed for aluminium, titanium and magnesium from 3D printing processes. A power outlet plug is not included and must be fitted separately. Cord length is 10.6 m.

Technical specifications

Parameter	Value
ATEX marking (external)	II 1/3D Ex h tc IIIC T200°C Dc IP6X
ATEX marking (internal)	Ex h IIIC T200°C Da
ATEX zone	Zone 20 internal (container) • Zone 22 external
ATEX certificate	LCIE 19 ATEX 1001 X (3rd party, NB 0081)
IECEX certificate	IECEX LCIE 15.0048
Motor type	Bypass 1.2 kW (brushless motor available)
Voltage	220–240 V • 50/60 Hz • single phase • 5 A
Air flow	194 m ³ /h
Vacuum pressure	2,504 mmH ₂ O
Suction inlet	Ø38 mm (1.5" camlock)
Filters (bypass)	CFE coalescing HEPA + 2×HEPA H14 (99.995 % at 0.3 µm)
Filters (brushless)	CFE coalescing HEPA + 4×HEPA H14
Water capacity (container)	12.3 L (3.25 gal)
Recovery bag	Conductive wet recovery bag — 3 L — included
Container	AISI 304 stainless steel
Dimensions	48 × 46 × 89 cm (H)
Weight	28.1 kg
Sound level	72 dB(A)
Cord length	10.6 m (power outlet plug not included)
Standards	EN 17348 WT • EN IEC 60079-0:2018 • EN 60079-31:2014 • EN ISO 80079-36:2016 • NFPA 484

Accessories and options

The C-10 EX ships with a complete static dissipating accessory kit for the 1.5" camlock suction inlet, including conductive crush-proof hose (3 m), crevice tool, round brush and conical nozzle with curved tip. Conductive wet recovery bag, mist arrestor pack, degassing vent and liquid level indicator are all included. The cable holder hook on the side of the powerhead keeps the cord neatly stored. Options include the brushless motor (always with 4×HEPA H14 filters) and a wand set with floor tool.



Static dissipating accessory kit with 1.5 inch camlock hose, crevice tool, round brush and conical nozzle — included
3D accessory kit — hose, nozzles, brush



CFE coalescing HEPA filter upstream — 99.97 percent at 0.3 micron
CFE coalescing HEPA filter



Conductive wet recovery bag with bag retainer bracket installed in container
Conductive wet recovery bag



Liquid level indicator and drain valve on C-10 EX container

Liquid level indicator and drain valve



Degassing vent on C-10 EX — must remain open when not in use

Degassing vent



Cable holder hook on the side of the powerhead — keeps cord neatly stored

Cable holder hook on powerhead



Brushless motor option with 4 x HEPA H14 filters — optional for C-10 EX

Brushless motor (4×H14 HEPA)



Optional: wand set with floor tool for C-10 EX

Wand set and floor tool

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