

ATEX AREAS • GAS ZONE 1 • DUST ZONE 21 • DRY RECOVERY ONLY

## CD-230V EX MRPFT HEPA

Explosion proof industrial vacuum (ATEX II 1/2GD) with built-in filter tube purge system and HEPA H14 exhaust filter. Enclosed explosion proof motor for continuous duty. 50 litre stainless steel Type 304 recovery tank. For dry recovery of combustible dust and flammable gases – rated for Gas Zone 1 and Dust Zone 21.

- ATEX II 1/2GD – Zone 0/20 internal, Zone 1/21 external
- HEPA H14 (99.995% at 0.3 µm) – individually aerosol leak tested
- Filter tube purge system (MRPFT) – clean filters without opening the unit
- Continuous duty – enclosed explosion proof motor, 1.5 kW
- 50 L stainless steel Type 304 recovery tank
- Vacuum up to 2,540 mmH<sub>2</sub>O – ideal for process integration



Tiger-Vac CD-230V EX MRPFT HEPA explosion proof vacuum with filter tube purge system

II 1/2GD – ATEX Directive 2014/34/EU · LCIE 03 ATEX 6295 X – Notified body 0081 · Ex db h IIB T4 Gb / Ex h tb IIIC T135°C Db IP65 · EN 17348 DT – Combustible dust · IECEx LCI 10.0040X

| Key Facts    |                          |
|--------------|--------------------------|
| ATEX         | II 1/2GD                 |
| Filter Class | HEPA H14                 |
| Power        | 1.5 kW                   |
| Air Flow     | 212 m³/h                 |
| Max Vacuum   | 2,540 mmH <sub>2</sub> O |
| Sound Level  | 68 dB(A)                 |
| Tank         | 50 L stainless steel     |
| Weight       | 97 kg                    |
| Resistivity  | < 10 ohms                |

### About CD-230V EX MRPFT HEPA

The CD-230V EX MRPFT HEPA is an explosion proof industrial vacuum designed for safe recovery of combustible dust and flammable gases in hazardous environments. Certified ATEX II 1/2GD under LCIE 03 ATEX 6295 X, it can be deployed in both gas and dust zones. Externally rated for Gas Zone 1 (Group IIB) and Dust Zone 21, with internal protection for Zone 0/20 (Ex h IIC T6 Ga / Ex h IIIC T50°C Da), it offers flexibility for process integration in chemical plants, paint and coatings facilities, powder handling, and other industries where explosive atmospheres are a concern.

The filter tube purge system (MRPFT – Manual Reverse Purge with Filter Tubes) is a critical safety feature: instead of requiring manual filter or bag change, the operator simply activates a reverse air purge that cleans the PTFE-laminated polyester filter tubes internally. This method ensures the unit is never opened during operation and collected material remains sealed until disposal is complete. This is essential for ATEX safety as it eliminates the risk of static electricity buildup and accidental ignition during maintenance – the most vulnerable moment in any dust collection system.

The recovery tank is constructed from Type 304 stainless steel and has a 50-litre capacity. Mounted on a carriage base with four wheels, it is easy to move between work areas and can be integrated into process lines and ducted systems. The 10-metre power cord offers extended reach. Powered by a 1.5 kW TEFC (Totally Enclosed Fan Cooled) explosion proof motor at 230 V single phase, it can run continuously without risk of overheating, making it ideal for high-capacity industrial cleaning and process-integrated dust collection.

The HEPA H14 exhaust filter (99.995% at 0.3 µm) ensures air discharged back to the work area is extremely clean. Maximum vacuum of 2,540 mmH<sub>2</sub>O allows the unit to integrate with process equipment and closed-loop transfer systems without additional vacuum pumps. Resistivity below 10 ohms provides static dissipation throughout the system, further reducing ignition risk.

## Technical Specifications

| Parameter               | Value                                                             |
|-------------------------|-------------------------------------------------------------------|
| ATEX Certification      | LCIE 03 ATEX 6295 X                                               |
| ATEX Marking            | II 1/2GD                                                          |
| External Gas            | Ex db h IIB T4 Gb                                                 |
| External Dust           | Ex h tb IIIC T135°C Db IP65                                       |
| Internal Classification | Ex h IIC T6 Ga / Ex h IIIC T50°C Da                               |
| EN 17348                | DT – Combustible dust                                             |
| IECEX Certification     | IECEX LCI 10.0040X                                                |
| Gas Zones (external)    | Zone 1, Zone 2                                                    |
| Dust Zones (external)   | Zone 21, Zone 22                                                  |
| Motor Type              | TEFC (Totally Enclosed Fan Cooled), explosion proof, single phase |
| Power                   | 1.5 kW (1500 W)                                                   |
| Voltage                 | 230 V, 50 Hz, single phase                                        |
| Amperage                | 12.3 A                                                            |
| Air Flow Maximum        | 212 m <sup>3</sup> /h                                             |
| Vacuum Maximum          | 2,540 mmH <sub>2</sub> O                                          |
| Vacuum Continuous (VRV) | 1,780 mmH <sub>2</sub> O                                          |
| Sound Level             | 68 dB(A)                                                          |
| Filter Class            | HEPA H14, 99.995% at 0.3 µm                                       |
| Filter Cleaning         | MRPFT (Manual Reverse Purge with Filter Tubes)                    |
| Recovery Tank           | 50 L stainless steel Type 304                                     |
| Suction Inlet Diameter  | Ø50 mm                                                            |
| Stand Type              | Carriage Base (CB) – 4 wheels                                     |
| Cord Length             | 10 m                                                              |
| Dimensions              | L64 × W48 × H151 cm                                               |
| Weight                  | 97 kg                                                             |
| Tank/Chassis Material   | Stainless steel Type 304                                          |
| Stand Material          | Powder coated steel                                               |
| Resistivity             | Less than 10 ohms (static dissipative)                            |

| Parameter        | Value                                         |
|------------------|-----------------------------------------------|
| Recovery Type    | Dry recovery only                             |
| Delivery Package | Complete static dissipative tool kit included |

Accessories



Filter tubes assembly for MRPFT models

Filter Tubes Assembly

Included as standard



HEPA H14 exhaust filter

HEPA H14 Filter

Included as standard



Static dissipative tool kit

Static Dissipative Tool Kit

Included as standard

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