

3D PRINTING • ACD • ZONE 20 (INTERNAL) • ORDINARY LOCATION

## MTL 302 ACD

ACD vacuum cleaner for the safe collection of combustible plastic powder from 3D printing in ordinary, unclassified locations. Zone 20 internal tank protection certified by IMQ (NB 0738) — documented safety without external ATEX zone requirements. HEPA H14, AISI 304 and M-class antistatic disposable bag included.

- ACD II 1/-D — Zone 20 internal tank • 3rd party certified by IMQ (NB 0738)
- HEPA H14 — 99.995 % at MPPS • EN 17348 (Dry Type DT)
- ESD safe — antistatic construction • M-class disposable bag included
- Tank and construction in stainless steel AISI 304 • 40 L
- Bypass motor 2.2 kW • 360 m<sup>3</sup>/h • 74 dB(A)
- Manual filter shaking • filter indicator • accessory kit included



MTL 302 ACD — ACD vacuum cleaner for combustible plastic powder in ordinary locations

ACD II 1/-D — Ex h IIIC T80°C Da (internal Zone 20) • IMQ Certified — NB 0738 (3rd party) • EN 17348 — Dry Type DT (combustible dust) • HEPA H14 — EN 1822-5 • M-class filter (IEC 60335-2-69)

### Quick facts

|                 |                         |
|-----------------|-------------------------|
| Classification  | ACD II 1/-D             |
| Zone (internal) | Zone 20 (Da)            |
| Zone (external) | Ordinary (unclassified) |
| Certification   | IMQ NB 0738 (3rd party) |
| HEPA filter     | H14 — 99.995 %          |
| Airflow         | 360 m <sup>3</sup> /h   |
| Vacuum pressure | 2500 mmH <sub>2</sub> O |
| Power           | 2.2 kW                  |
| Noise level     | 74 dB(A)                |
| Tank capacity   | 40 L                    |
| Tank            | AISI 304                |
| Weight          | 25 kg                   |

### ACD — documented safety in ordinary locations

The MTL 302 ACD is Delfin's vacuum cleaner for production environments handling combustible plastic powder from 3D printing where the surroundings are not ATEX-zoned. ACD stands for Applied for Combustible Dust and is not a generic marketing term — it is a technical classification requiring 3rd party certification by a notified body. The MTL 302 ACD is certified by IMQ (Istituto Italiano del Marchio di Qualità, NB 0738) to the marking II 1/-D, documenting that the tank interior is protected to Zone 20 standard.

This is an important distinction: many vacuum cleaners on the market carry the ACD label without being certified for internal Zone 20. The -/1D marking and a certificate from a notified body are the only way to demonstrate to an auditor that the machine genuinely meets the requirements of EN 17348 for collecting combustible dust in

unclassified locations.

## HEPA H14, M-class filter and manual filter shaking

The filter system consists of a primary Star/Tasche filter in antistatic polyester class M (IEC 60335-2-69) and a HEPA H14 safety filter (99.995 % at MPPS, EN 1822-5). M-class antistatic disposable bags are included as standard — the bag collects the vacuumed powder and can be changed hygienically without direct operator contact. The manual filter shaking function dislodges accumulated dust from the filter without opening the machine.

The powerful 2.2 kW bypass motor delivers 360 m<sup>3</sup>/h at 2500 mmH<sub>2</sub>O vacuum pressure — the highest suction performance in Delfin's MTL range for 3D printing, suited for high-volume collection at large printers or intensive cleaning tasks. Noise level is 74 dB(A) (EN ISO 3744). The control panel has a green/red filter indicator and a no-voltage relay that protects against unintended restart after a power outage.

## Technical specifications

| Parameter             | Value                                                                     |
|-----------------------|---------------------------------------------------------------------------|
| ACD marking           | II 1/-D — Ex h IIIC T80°C Da (internal Zone 20)                           |
| External zone         | Ordinary (unclassified) location — not approved for ATEX zones externally |
| Certification         | IMQ Certified — 3rd party (IMQ, NB 0738)                                  |
| Harmonised standard   | EN 17348 — Dry Type DT (combustible dust)                                 |
| Primary filter        | Star/Tasche — polyester ANT M (IEC 60335-2-69)                            |
| Primary filter area   | 4,000–360 cm <sup>2</sup>                                                 |
| Safety filter         | HEPA H14 (EN 1822-5) — 99.995 % at MPPS                                   |
| HEPA filter area      | 26,000 cm <sup>2</sup>                                                    |
| Filter cleaning       | Manual shaking                                                            |
| Motor type            | Bypass                                                                    |
| Power                 | 2.2 kW / 2200 W                                                           |
| Voltage               | 230 V, 50/60 Hz, single phase                                             |
| Airflow               | 360 m <sup>3</sup> /h                                                     |
| Vacuum pressure       | 2500 mmH <sub>2</sub> O                                                   |
| Noise level           | 74 dB(A) (EN ISO 3744)                                                    |
| Suction inlet         | Ø50 mm                                                                    |
| Tank capacity         | 40 L                                                                      |
| Tank and construction | Stainless steel AISI 304                                                  |
| Collection system     | M-class antistatic disposable bag (included)                              |
| Dimensions            | 44 × 42 × 78 cm (L×W×H)                                                   |
| Weight                | 25 kg                                                                     |
| Duty cycle            | Intermittent                                                              |
| ESD safe              | Yes — antistatic construction                                             |

**Compliance and standards:** EN 17348 (combustible dust, Dry Type DT) • EN 1822-5 (HEPA filter test) • IEC 60335-2-69 (M-class filter) • EN ISO 3744 (noise measurement). 3rd party certified by IMQ, NB 0738, Milan, Italy.

## Accessories



Accessory kit TA.0527.0000 for MTL 302 ACD — included

Accessory kit (TA.0527.0000)



M-class antistatic disposable bag for MTL 302 ACD — included

M-class antistatic disposable bag (FI.0469.0000)

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### CONTACT

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