

DELFIN · II 3D EX H TC IIIC T80°C (INT)/T165°C (EXT) DC

Delfin MTL 4534



The Delfin MTL 4534 is the compact 45-litre industrial vacuum in Delfin's Zone 22 range: a 3 kW side-channel blower delivering 318 m³/h airflow and 3200 mmH²O theoretical vacuum, built on painted steel with a stainless-steel container and ABS accessory basket. The model is self-certified per EN 17348:2022 in category 3D and suits medium-sized production areas with combustible dust, where floor space and manoeuvrability matter as much as steady operation.

APPLICATIONS

- Medium-sized ATEX Zone 22 production halls with three-phase supply
- Continuous collection of combustible process-fine dust
- Wood, MDF and metal industry with ATEX Zone 22 requirements
- Chemical and pharmaceutical process equipment where compactness is an advantage
- Cleaning in smaller classified areas with limited floor space

Technical specifications

ATEX marking	II 3D Ex h tc IIIC T80°C (Int)/T165°C (Ext) Dc
Internal / external zone	22 / 22
Motor type	Sidekanalblæser, 3-faset (trifase)
Airflow	318 m³/h
Vacuum	314 mbar (3200 mmH ₂ O)
Container	45 L
Sound pressure	69 dB(A)
Filter class	H class
Filter type	Klasse H HEPA, 27.100 cm² filterflade, H14-efficiens (99,995 % MPPS, EN 1822-5)
Primary filter	Stjerne/taske antistatisk polyester M, 20.000-420 cm²-mm
Collection system	Plastic bag
Material	Lakeret stål med rustfri stålbeholder og ABS-tilbehørskurv
IP class	IP65
Power	3.0 kW
Current	6.5 A
Voltage	400 V / 50 Hz / 3~
Inlet	Diameter 80 mm
Dimensions (L x W x H)	580 x 930 x 1160 mm
Weight	85 kg

Questions and answers

Is it ATEX-certified or self-certified?

It is self-certified by Delfin per EN 17348:2022 in category 3D. For category 3, the ATEX Directive permits manufacturer self-certification, provided the requirements of the harmonised standard are met. The marking is II 3D Ex h tc IIIC T80°C (Int)/T165°C (Ext) Dc.

Why are two vacuum values shown on the datasheet?

The model has a pressure relief valve fitted as standard. The valve admits false air at a set vacuum (2700 mmH²O) and thereby prevents the side-channel blower from being overloaded by blocked filters or a closed hose. The higher value (3200 mmH²O) is the theoretical maximum vacuum without valve activation. Both values are indicative and measured in new condition.

How is the dust collected — is there a bag?

The dust is collected in an open antistatic plastic bag placed in the container. The bag is held in place by a vacuum kit fitted at commissioning, which uses the container vacuum to press the bag against the container wall. This prevents the bag from collapsing or being drawn into the filter during operation.

Is it certified for Zone 21 or Zone 20?

No. The model is categorised as 3D Dc, which only covers Zone 22. For Zone 21 or internal Zone 20, a 1/2D or 1/3D model must be used — for example the Delfin MTL 301 1/3D, MTL 201 1/2D or DM2 EL 1/2D LP. Contact Particulair if you are unsure which zone classification your production requires.

Contact and advisory

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