

DELFIN · II 1/3D EX H IIIC T80°C DA/DC

# Delfin MTL 301 AIREX 1/3D



The Delfin MTL 301 AIREX 1/3D is the compact pneumatic model in the AIREX family -- a 13-litre tank and just 30 kg, but the same notified-body-certified ATEX II 1/3D marking and the same 7 venturi units as its bigger siblings. The primary filter is a cartridge with a Dustop shaker system that lets the operator restore suction mechanically during operation. Particularly suited where space is tight, where the vacuum needs to be moved frequently between zones, or where collection volume is moderate and the cartridge gives longer intervals between bag changes than a sacco filter.

## APPLICATIONS

- Spot cleaning in Zone 22 with limited space or narrow passages
- Machine servicing where the vacuum is moved frequently
- Fine-dust collection where cartridge+Dustop gives longer operating intervals
- Mobile cleaning crews at refineries and chemical plants
- Backup or secondary vacuum alongside a larger 802 WD or DM unit

# Technical specifications

<b>ATEX marking</b>	II 1/3D Ex h III C T80°C Da/Dc
<b>Internal / external zone</b>	20 / 22
<b>Motor type</b>	7 venturi-enheder, pneumatisk drift (trykluft)
<b>Airflow</b>	150 m <sup>3</sup> /h
<b>Vacuum</b>	363 mbar (3700 mmH <sub>2</sub> O)
<b>Container</b>	13 L
<b>Sound pressure</b>	68 dB(A)
<b>Filter class</b>	H class
<b>Filter type</b>	HEPA H14 (EN 1822-5), 99,995 % ved MPPS, 11.000 cm <sup>2</sup> filterflade
<b>Primary filter</b>	Antistatisk polyester klasse ANT M (cartridge/patronfilter, 6.000 cm <sup>2</sup> , diameter 360 mm). Luftbelastning 250 m <sup>3</sup> /m <sup>2</sup> /h.
<b>Cleaning system</b>	Dustop -- manuel rystefunktion for patronfilter
<b>Collection system</b>	Plastic bag
<b>Material</b>	Malet staal (AISI 304 som option)
<b>Air consumption</b>	729 nl/min
<b>Supply pressure</b>	6 bar
<b>Air supply hose</b>	Diameter 12 mm
<b>Venturi units</b>	7 pcs
<b>Inlet</b>	Diameter 50 mm
<b>Dimensions (L x W x H)</b>	460 x 480 x 900 mm
<b>Weight</b>	30 kg

# Questions and answers

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## Why pneumatic venturi drive instead of an electric motor?

Venturi units have no moving parts, no brushes and no motor windings. That eliminates two things at once: a potential ignition source in an explosive atmosphere, and the maintenance burden of motor, bearings and cooling. The vacuum can run continuously for as long as compressed air is supplied, and there are no electrical components to certify or inspect. The trade-off is air consumption -- venturi makes most sense where compressed air is already available (production plants, refineries, pharmaceutical facilities).

## What does the II 1/3D marking mean?

The marking reads as two digits: "1" is the internal category (Zone 20 inside the vacuum -- continuous dust atmosphere in the collection tank), and "3" is the external category (Zone 22 in the surrounding room -- rare or short-term dust atmosphere). "D" stands for dust. The internal Zone 20 certification is exactly what EN 17348:2022 has raised the bar on, and it is only obtained through notified-body certification.

## What compressed-air installation is required?

The unit requires clean, dry compressed air at 6 bar with a 12 mm ID supply hose. Air consumption at full load is 729 nl/min, which corresponds to a mid-range industrial compressor, so the installation must be able to sustain this. Always fit an air filter upstream to protect the venturi nozzles.

## What is the Dustop cleaning system?

Dustop is a manual shaker on the cartridge filter. When suction drops because the filter is clogging, the operator grabs a handle and shakes the filter from outside -- dust falls into the tank and suction is restored. It replaces the need for compressed-air auto-cleaning and keeps the design simple and maintenance-free.

# Contact and advisory

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## PARTICULAIR

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