

DELFIN · II 1/2D EX H IIIC T85°C DA/DB -- II 2/2G EX H IIB T6 GB/GB

## Delfin 802 WD AIREX 1/2D-2/2G 14V



The Delfin 802 WD AIREX 1/2D-2/2G 14V is the 14-venturi version of the combi-certified 802 WD AIREX -- same double certificate (II 1/2D Ex h and II 2/2G Ex h), same AISI 304 construction and same 80-litre wet/dry tank as the 7V version, but with double the airflow at 300 m<sup>3</sup>/h and air consumption of 1458 nl/min at 6 bar. Tackles the same tasks as the 7V but with double capacity -- suited to central suction or simultaneous operation through multiple suction points where both dust and gas zones must be covered.

### APPLICATIONS

- Central suction in combi-zones with multiple simultaneous points
- Fuel handling facilities with high cleaning cadence
- Chemical process plants with large dust volume
- Pharmaceutical/biotech facilities with central suction infrastructure
- Heavy wet/dry tasks in gas and dust zones simultaneously

# Technical specifications

<b>ATEX marking</b>	II 1/2D Ex h IIIC T85°C Da/Db -- II 2/2G Ex h IIB T6 Gb/Gb
<b>Internal / external zone</b>	20 / 21
<b>Motor type</b>	14 venturi-enheder, pneumatisk drift (trykluft)
<b>Airflow</b>	300 m <sup>3</sup> /h
<b>Vacuum</b>	363 mbar (3700 mmH <sub>2</sub> O)
<b>Container</b>	80 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, 20.600 cm <sup>2</sup> filterflade
<b>Primary filter</b>	Antistatisk polyester klasse ANT M PTFE (sacco/pose, 5.000 cm <sup>2</sup> , diameter 420 mm). Vaadfilter: polypropylen 300 mikron med flyder for vaesker.
<b>Cleaning system</b>	Manuel -- aabn og byt pose; HEPA-filter udskiftes efter tilstand
<b>Collection system</b>	Plastic bag
<b>Material</b>	AISI 304 rustfrit staal
<b>Air consumption</b>	1458 nl/min
<b>Supply pressure</b>	6 bar
<b>Air supply hose</b>	Diameter 12 mm
<b>Venturi units</b>	14 pcs
<b>Inlet</b>	Diameter 80 mm
<b>Dimensions (L x W x H)</b>	620 x 530 x 1080 mm
<b>Weight</b>	36 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).

## Why is the 1/2D-2/2G model categorised as ATEX Combi?

This model is double-certified: "II 1/2D" covers dust (internal Zone 20, external Zone 21), and "II 2/2G" covers gas (Zone 1 both inside and outside). Since it can operate safely in areas where dust and gas atmospheres may occur simultaneously, it belongs in the ATEX Combi category in our catalogue. Equivalent to IEC notation II 1/2GD. Typical use: refineries, chemical plants, drying processes and fuel handling where both atmospheres can occur.

## 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 1458 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.

## Can it pick up liquids?

Yes, the 802 WD AIREX is a wet/dry model. In wet mode a float activates and automatically stops suction when the tank reaches maximum liquid level, so the liquid is not drawn into the filter chamber or HEPA. When switching from dry to wet, change the primary filter to the supplied wet type (polypropylene 300 micron, 5,000 cm<sup>2</sup>). Note: do not use AIREX for flammable or chemically aggressive liquids without first consulting Particulair.

# Contact and advisory

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## PARTICULAIR

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