

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

Delfin DG 75 AF



The Delfin DG 75 AF is the top model in the 100-litre DG range: a 7.5 kW side-channel blower with 700 m³/h airflow, a taller cabinet (1750 mm) and a 49,000 cm² star/pocket primary filter. It is sized for the most demanding Zone 22 tasks where airflow is the limiting factor — long central-vacuum installations, multiple concurrent users, or collection of particularly light dust. Self-certified per EN 17348:2022 in category 3D.

APPLICATIONS

- Large ATEX Zone 22 installations with central vacuum systems
- Collection with multiple concurrent workstations and long hose runs
- Productions with light or voluminous dust where airflow is critical
- Metalworking and chemical production in Zone 22 with high capacity needs
- Replacement of undersized units in existing central systems

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	700 m ³ /h
Vacuum	314 mbar (3200 mmH ₂ O)
Container	100 L
Sound pressure	76 dB(A)
Filter class	H class
Filter type	Klasse H HEPA, 52.000 cm ² filterflade, H14-efficiens (99,995 % MPPS, EN 1822-5)
Primary filter	Stjerne/taske antistatisk polyester M, 49.000-500 cm ² -mm
Collection system	Plastic bag
Material	Lakeret stål med ABS-tilbehørskurv
IP class	IP65
Power	7.5 kW
Current	15.0 A
Voltage	400 V / 50 Hz / 3~
Inlet	Diameter 80 mm
Dimensions (L x W x H)	660 x 1200 x 1750 mm
Weight	170 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

PARTICULAIR

Particulair

Højtoften 12

2690 Karlslunde, Denmark

CVR: 34129894

Phone: (+45) 70 23 12 03

E-mail: sales@particulair.com

Web: particulair.eu

Product page: particulair.eu/ex-vac/en/atex-dust/dg-75-af/

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