

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

Delfin DG 75 AF PN



The Delfin DG 75 AF PN is the cartridge version of the DG 75 AF and the top model in the PN line-up: the same 7.5 kW side-channel blower and the family's highest airflow (700 m³/h) as the base model, but with three self-cleaning antistatic class M cartridge filters (80,000 cm² total) and automatic pneumatic cleaning via compressed air during operation. The cabinet is 320 mm taller than the base model (total height 2070 mm). Self-certified per EN 17348:2022 in category 3D and sized for Zone 22 central vacuum installations and productions with light or voluminous dust.

APPLICATIONS

- Large ATEX Zone 22 central vacuum installations with long hose runs
- Multiple concurrent workstations in Zone 22 requiring stable airflow
- Productions with light or voluminous dust where airflow is the limiting factor
- Continuous operation where manual filter service is impractical or uneconomical
- Replacement of undersized units where the filter system was previously the bottleneck

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	74 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	Antistatisk polyester klasse M patronfilter (3 stk, Ø150 x 700 mm, i alt 80.000 cm ²) med automatisk pneumatisk rensning via trykluft under drift
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 1180 x 2070 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. The automatic pneumatic cleaning of the cartridge filters only shakes accumulated dust off the filter medium into the container — the bag principle is unchanged from the base Delfin DG 75 AF model.

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-pn/

SMARTER THINKING • BETTER WORKING

This datasheet is generated deterministically from Particulair product data. Prices and availability provided on request. All specifications subject to change without notice.