

ATEX ZONE 1/2D • DELFIN • STATIONARY HIGH-CAPACITY

Delfin DG70 EXP EX1/2D

Stationary dust collector certified for ATEX Zone 21 and 22 with three-phase side channel blower. H14 HEPA filter included with double filter area (52,000 cm²). 100 L tank. Continuous operation — ideal for demanding industrial dust types and explosive processes.

- ATEX Zone 1/2D third-party certified per EN 17348:2022
- Side channel blower — maintenance-free 24/7 continuous operation
- H14 HEPA absolute filter with double filter area (52,000 cm²) for 99.995% retention
- 100 L stainless steel tank — large capacity without frequent emptying
- 560 m³/h airflow — high-demand applications
- 5.5 kW three-phase motor — powerful suction and performance



Delfin DG70 EXP EX1/2D Zone 21 dust collector with side channel blower

II 1/2D — ATEX Directive 2014/34/EU · IMQ — Notified body · IECEx Da/Db — Zone 20 internal / Zone 21 external · EN 17348 DT — Combustible dust collection

Key Facts	
Category	ATEX 1/2D
Zone	Zone 21
Power	5.5 kW
Airflow	560 m³/h
Max vacuum	2,000 mmH ₂ O
Noise	72 dB(A)
Tank	100 L
Weight	145 kg

Features and Technology

Delfin DG70 EXP EX1/2D is a larger dust collector designed for permanent installation in ATEX Zone 21 and 22 external environments. The unit is third-party certified per EN 17348:2022 and EU Directive 2014/34/EU as category 1/2D. Zone 21 means explosive dust-air mixtures can occur 10-1,000 hours per year under normal operating conditions — this is higher risk than Zone 22 and requires more robust construction.

The three-phase side channel blower delivers 560 m³/h and 2,000 mmH₂O vacuum for high-demand applications. The blower is maintenance-free without brushes or mechanical wear, making it ideal for continuous 24/7 operation. The H14 HEPA filter with double filter area (52,000 cm²) provides 99.995% particle retention — significantly larger than the DG30 model (26,000 cm²). Stainless steel AISI304 construction is standard for maximum corrosion resistance.

The 100 L collection tank provides very large capacity for intensive operation without frequent emptying. DG70 EXP EX1/2D is ideal for larger industrial processes, pharmaceutical and cleanroom production, and explosive dust silos and collection systems. A noise level of 72 dB(A) and IP65 rating ensure robust operation in demanding environments.

ATEX Zone 1/2D certification: This unit is third-party certified by IMQ, an accredited notified body for Zone 21 operation. The certification confirms II 1/2D, EN 17348, and IECEx Da/Db classification. You receive full EU documentation and technical dossier. Installation must be performed per ATEX guidelines by a qualified person.

Technical Specifications

Parameter	Value
ATEX certification	II 1/2 D Ex h IIIC T160°C Da/Db
ATEX category	1/2D – Zone 20 internal / Zone 21 external
Zone approval	Zone 20 internal / Zone 21 external
Standard	EN 17348:2022 DT
Motor type	Side channel blower – 3-phase maintenance-free
Power	5.5 kW / 11.1 A
Voltage	400 V, 50 Hz, 3-phase
Max airflow	560 m³/h
Max vacuum	2,000 mmH ₂ O*
Inlet	80 mm diameter
Filter type	H14 HEPA absolute filter – 99.995% at MPPS
Primary filter medium	Star/pocket, polyester ANT M
Primary filter area	30,000 cm², 500 mm diameter
HEPA filter area	52,000 cm² (double vs DG30)
Filter cleaning	Manual
Noise level	72 dB(A) per EN ISO 3744
Tank capacity	100 L
Construction	Stainless steel AISI304 standard
IP class	IP65
Dimensions (H x W x D)	170 x 60 x 103 cm
Weight	145 kg

*With safety valve mounted

Options

Delfin DG70 EXP EX1/2D can be configured with several options for specialized Zone 21 applications:

- **Stainless steel AISI 304 collection tank (X)** – standard
- **Stainless steel tank and filter chamber (XX)** – premium stainless construction
- **Stainless steel tank, filter, frame and cover (XXX)** – full AISI 304 construction
- **Antistatic dry accessory kit D50 (TA.0201.0000)** – ESD protection
- **Antistatic dry accessory kit D50 in stainless steel (TA.0200.0000)** – premium ESD solution
- **Other voltages and frequencies** – contact us for custom configurations

CONTACT

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