

ATEX ZONE 21 • DELFIN • HIGH-CAPACITY STATIONARY

Delfin DG30 EXP EX1/2D

Stationary dust collector certified for ATEX Zone 21 and 22 with powerful side channel blower. AISI304 stainless steel as standard. H14 HEPA filter included. Third-party certified for pharmaceutical and chemical industry.

- ATEX Zone 21 and 22 third-party certified to EN 17348:2022
- Category 1/2D — approved for both Zone 1 gas and Zone 21/22 dust
- H14 HEPA absolute filter for 99.995% particle retention
- Powerful side channel blower maintenance-free without carbon brushes
- Large 100 L tank with stainless steel as standard
- 420 m³/h airflow — ideal for intensive processes



Delfin DG30 EXP EX1/2D Zone 21 dust collector with side channel blower

ATEX II 1/2 D Ex h IIIC T160°C Da/Db · EN 17348:2022 DRY TYPE DUST COLLECTOR · Category 1/2D — Zone 21/22 Certification

Key Data	
Category	ATEX 1/2D
Zone	Zone 21
Power	4 kW
Airflow	420 m³/h
Max Vacuum	2,400 mmH ₂ O
Noise	72 dB(A)
Tank	100 L
Weight	145 kg

Features and Technology

The Delfin DG30 EXP EX1/2D is a stationary dust collector designed for permanent installation in ATEX Zone 21 and Zone 22 areas. The equipment is third-party certified to EN 17348:2022 and EU Directive 2014/34/EU as category 1/2D, meaning it is approved for both gas (Zone 1) and dust (Zone 21/22) explosive atmospheres. Triple capacity (100 L) and higher airflow make the DG30 EXP EX1/2D ideal for larger industrial, pharmaceutical, and chemical processes.

The side channel blower is a premium motor type designed for continuous 24/7 operation without maintenance. There are no carbon brushes, ball bearings, or mechanical wear parts. It delivers 420 m³/h airflow with 2,400 mmH₂O maximum vacuum — a perfect balance of power and stability. The H14 HEPA filter guarantees 99.995% particle retention even at very high particle concentrations, perfect for pharmaceutical and cleanroom production.

AISI304 stainless steel as standard ensures maximum corrosion resistance in aggressive factory environments with chemicals and organic dust. Manual filter cleaning means short downtime. IP65 classification provides protection against moisture and particulates. The 100 L collection tank offers high flexibility for high dust production volumes.

Zone 21/22 Certification: This equipment is third-party certified by IMQ, an accredited notified body for Zone 21 and 22 operation. Category 1/2D represents the highest safety level for dust collection. You receive full EU documentation, technical dossier, and original certification. Installation must be carried out according to ATEX guidelines and approved by local authorities.

Technical Specifications

Parameter	Value
ATEX Certification	II 1/2 D Ex h IIIC T160°C Da/Db
ATEX Category	1/2D – Zone 21/22 External
Zone Approval	Zone 20 Internal / Zone 21 and 22 External
Standard	EN 17348:2022 DRY TYPE DUST COLLECTOR
Motor Type	Side channel blower – maintenance-free
Power	4 kW / 7.4 A
Voltage	400 V, 50 Hz, 3-phase
Max Airflow	420 m³/h
Max Vacuum	2,400 mmH ₂ O*
Filter Type	H14 HEPA absolute filter – 99.995% at MPPS
Primary Filter Medium	Star/pocket polyester ANT M
Primary Filter Area	30,000 cm²
HEPA Filter Area	26,000 cm²
Filter Cleaning	Manual
Noise Level	72 dB(A) at EN ISO 3744
Collection Capacity	100 L
Construction	AISI304 Stainless Steel
IP Class	IP65
Dimensions (L×W×H)	60×103×170 cm
Weight	145 kg
Suction Inlet	Ø80 mm

*Max vacuum with safety valve mounted

Options

The Delfin DG30 EXP EX1/2D can be customized with several options for specialized Zone 21/22 applications:

- **AISI 304 Stainless Steel Collection Tank (X)** – standard option
- **AISI 304 Stainless Steel Tank and Filter Chamber (XX)** – enhanced corrosion resistance
- **AISI 304 Stainless Steel Tank, Filter, Frame and Cover (XXX)** – full premium construction
- **Recommended Antistatic Dry Accessory Kit D50 (TA.0201.0000)** – ensures ESD safety
- **Antistatic Dry Accessory Kit D50 in Stainless Steel (TA.0200.0000)** – premium ESD solution
- **Other Voltages and Frequencies** – available on request

CONTACT

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