

ATEX ZONE 22 • DELFIN • STATIONARY MOUNTING

Delfin DBFV 20/30 Z22

Stationary dust collector certified for ATEX Zone 22 with integrated vortex pre-separator. AISI304 stainless steel. H14 HEPA filter included. Maintenance-free side channel blower — purpose-built for permanent installation in explosive dust atmospheres.

- ATEX Zone 22 third-party certified under EN 17348:2022
- Integrated vortex pre-separator dramatically reduces filter loading
- H14 HEPA absolute filter for 99.995% particle retention
- Maintenance-free side channel blower without carbon brushes
- AISI304 stainless steel as standard — ideal for hazardous environments
- 270–318 m³/h — flexible performance with two model sizes



Delfin DBFV 20/30 Z22 ATEX Zone 22 dust collector with vortex pre-separator

ATEX II 3D Ex h tc IIIC T80°C(int)/T165°C(ext) Dc · EN 17348:2022 DRY TYPE DUST COLLECTOR · Category 3D — Zone 22 external

Key Data	
Category	ATEX 3D
Zone	Zone 22
Power	2.2 kW
Airflow	270–318 m³/h
Max Vacuum	2,600–3,000 mmH ₂ O
Noise	69–70 dB(A)
Tank	25 L
Weight	45–60 kg

Features and Technology

The Delfin DBFV 20/30 Z22 is a stationary dust collector engineered for permanent installation in ATEX Zone 22 areas. The machine is third-party certified under EN 17348:2022 and EU Directive 2014/34/EU. The integrated vortex pre-separator separates heavy dust via centrifugal force before the air stream reaches the H14 filter — this dramatically reduces filter loading and delivers very long filter service intervals.

AISI304 stainless steel as standard ensures maximum corrosion resistance in hazardous environments. The side channel blower is maintenance-free without carbon brushes or wearing parts, making it ideal for 24/7 operation without downtime. Included pressure relief valve protects the system against overload conditions.

DBFV 20 delivers 270 m³/h and 3,000 mmH₂O maximum vacuum; DBFV 30 delivers 318 m³/h and 2,600 mmH₂O. Choose DBFV 20 for higher vacuum applications and DBFV 30 for maximum airflow capacity. Both models weigh 45–60 kg and share the same steel construction.

ATEX Certification: This unit is third-party certified by an accredited notified body. You receive complete EU documentation and technical dossier confirming Zone 22 classification. Installation must be performed according to ATEX guidelines.

Technical Specifications

Parameter	Value
ATEX Certification	II 3D Ex h tc IIIC T80°C(int)/T165°C(ext) Dc
ATEX Category	3D — Zone 21 internal, Zone 22 external
Standard	EN 17348:2022
Motor Type	Side channel blower — maintenance-free
Power	2.2 kW / 4.6 A
Voltage	400 V, 50 Hz, 3-phase
Max Airflow DBFV 20	270 m³/h
Max Airflow DBFV 30	318 m³/h
Max Vacuum DBFV 20	3,000 mmH ₂ O
Max Vacuum DBFV 30	2,600 mmH ₂ O
Continuous Vacuum	1,900–2,200 mmH ₂ O
Filter Type	H14 HEPA absolute filter — 99.995% at MPPS
Filter Medium	Polyester ANT M (antistatic)
Noise Level	69–70 dB(A) at EN ISO 3744
Collection Capacity	25 L
Construction	AISI304 stainless steel
IP Class	IP65
Dimensions (L×W×H)	54×55×103 cm
Weight	45 kg (DBFV 20) / 60 kg (DBFV 30)
Suction Inlet	Ø50 mm
Pressure Relief Valve	Included

Options

The Delfin DBFV 20/30 Z22 can be configured with several options for specialized ATEX environments:

- **Full AISI 304 collection tank** — stainless steel tank with extra corrosion protection
- **Earthing connection (MT)** — ESD earthing lead against electrostatic buildup in explosive atmosphere
- **Stainless steel filter chamber** — AISI 304 construction for complete filter housing
- **Chassis with casters and handle** — simple relocation between processes
- **Extension pipes with bells** — custom-fitted to machine size

CONTACT

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