

DEPURECO · II 3D EX H IIIB T140 DC

Depureco DF FIX 55 Z2-22



The Depureco DF FIX 55 Z2-22 is the family's top model: stationary dust collector with automatic cleaning system and 175 L bin for continuous operation. A 5.5 kW ATEX-certified centrifugal fan delivers 2,700 m³/h at 517 mmH₂O vacuum. Three-stage filter and cleaning cascade: primary star filter (45,000 cm²) with pneumatic filter shaker (PSC), secondary 4x cartridge filter (120,000 cm²) with automatic reverse-jet pulsejet. ATEX marking II 3D Ex h IIIB T140 Dc -- Zone 22 external, non-conductive dust class IIIB. Standard choice for central systems with many connection points and high uptime.

APPLICATIONS

- Central system with multiple connection points and automatic filter cleaning
- Continuous operation with 175 L bin and PSC + reverse-jet cleaning
- Production plants where service interval and stable vacuum are critical
- Bulk handling, feed production, grain and bag dust
- Replacement of smaller dust collectors where capacity or uptime is insufficient

Technical specifications

ATEX marking	II 3D Ex h IIIB T140 Dc
Internal / external zone	- / 22
Motor type	3D ATEX-certificeret centrifugalventilator, 5,5 kW
Airflow	2700 m ³ /h
Vacuum	50.7 mbar (517 mmH ₂ O)
Container	175 L
Sound pressure	78 dB(A)
Filter class	M class
Filter type	Stjernefilter antistatisk polyester klasse M 45.000 cm ² (primaer) + 4x cylindriske patroner antistatisk polyester klasse M 120.000 cm ² (sekundaer)
Primary filter	Stjernefilter 45.000 cm ² M + automatisk 4x patronfilter 120.000 cm ² M
Cleaning system	Pneumatisk filtterystning (PSC) paa primaert stjernefilter + automatisk reverse jet-rensning paa sekundaere patroner
Collection system	Detachable container
Material	AISI 304 rustfrit staalbeholder + lakeret staal-filterhus
IP class	IP55
Power	5.5 kW
Voltage	400 V / 50-60 Hz
Dimensions (L x W x H)	1670 x 850 x 1980 mm
Weight	220 kg

Questions and answers

What does the ATEX marking II 3D Ex h IIIB T140 Dc mean?

The model is EU type-approved under ATEX directive 2014/34/EU for stationary operation in external Zone 22 (dust, low risk). 'Ex h' is the construction protection type per EN ISO 80079-36/37. 'IIIB' covers non-conductive dust (paper, fibres, grain, bag dust etc.) -- note that class IIIC (conductive metallic dust) requires separate approval. 'T140' is maximum surface temperature in operation (140 degrees C). 'Dc' is the EPL code for Zone 22.

How does the DF FIX's combined cleaning system work?

The DF FIX uses a three-stage filter and cleaning cascade: first a pneumatic filter shaker on the primary star filter (PSC), then a secondary 4x cartridge filter section with 120,000 cm² total filter area in antistatic polyester M class, which is cleaned automatically via reverse-jet pulsejet. The result is that differential pressure is kept stable even under high dust loads and many operating hours. Manual maintenance is limited to emptying the bin (175 L) and annual filter integrity check.

What capacity does the DF FIX 55 Z2-22 have, and what is typical pipe sizing?

DF FIX 55 Z2-22 delivers 2,700 m³/h at 5.5 kW -- sufficient for a central system with 4-8 connection points depending on hose length and filter load. Typical pipe sizing: main pipe 200 mm, connection pipes 100-150 mm. Combined with the cyclone pre-separator (tangential inlet), the cartridge filter load is significantly reduced, extending filter life. For longer hose runs or more connection points, vacuum reserve must be calculated per plant drawing.

What is the difference between the DF FIX 55 Z2-22 and PUMA FIX Z22?

Both are stationary central units in Zone 22, but they solve different tasks. **DF FIX Z2-22** is designed for high airflow and lower vacuum -- suitable for large pipe diameters and airborne dust, typically extraction directly from machines or from multiple suction arms simultaneously, where air volume creates the capture effect rather than vacuum. **PUMA FIX Z22**, conversely, is a traditional central vacuum cleaner with high vacuum (260-350 mBar) and moderate airflow -- suitable for smaller pipe diameters and longer pipe runs, where resistance builds up over distance and sufficient suction must be preserved at the hose end. The choice depends on whether your plant primarily has few long pipe runs (PUMA FIX) or many short, wide extraction points requiring high air exchange (DF FIX).

Contact and advisory

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