

DELFIN · CE ACD -- OVERHOLDER IEC 60335-2-69 ANNEX AA (IKKE ATEX-MAERKET) -- H-KLASSE HEPA H14 (EN 1822-5, 99,995 % MPPS)

Delfin DG 300 SE ACD



The Delfin DG 300 SE ACD is the high-vacuum version of the 300 range -- a 20 kW three-phase side-channel blower delivering 4400 mmH₂O vacuum (with safety valve installed) at 1100 m³/h airflow. The SE profile is optimised for heavy, compact dust and long hose runs where vacuum matters more than volume. The 220 L detachable tank and AUT filter cleaning are identical to the HD version, and the entire construction is certified to IEC 60335-2-69 Annex AA.

APPLICATIONS

- Iron and steel chip collection with high hose resistance
- Dust collection in cement plants and mortar production
- Compact, heavy, strong dust in ceramics and glass manufacturing
- Refinery and petrochemical maintenance outside ATEX zones with heavy slurry residues
- Centralised installations with long suction pipes and multiple users

Technical specifications

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|---------------------------------|---|
| ATEX marking | CE ACD -- overholder IEC 60335-2-69 Annex AA (ikke ATEX-mærket) -- H-klasse HEPA H14 (EN 1822-5, 99,995 % MPPS) |
| Internal / external zone | 20 / ikke-ATEX |
| Motor type | Sidekanalblæser, 3-faset (trifase) -- 20 kW |
| Airflow | 1100 m ³ /h |
| Vacuum | 432 mbar (4400 mmH ₂ O) |
| Container | 220 L |
| Sound pressure | 78 dB(A) |
| Filter class | H class |
| Filter type | Klasse H HEPA H14, 103.500 cm ² filterflade (99,995 % MPPS, EN 1822-5) |
| Primary filter | Polyester klasse M stjerne-/taskefilter (120.000 cm ² , 780 mm diameter, Polyester ANT M) |
| Cleaning system | AUT -- automatisk filterafbankning ved driftsophold |
| Collection system | Detachable container |
| Material | Lakeret staalkabinet som standard, rustfrit stål AISI 304 som option |
| IP class | IP65 |
| Power | 20.0 kW |
| Current | 38.5 A |
| Voltage | 400 V / 50 Hz / 3~ |
| Inlet | Diameter 120 mm |
| Dimensions (L x W x H) | 950 x 1800 x 2200 mm |
| Weight | 810 kg |

Questions and answers

Why choose SE over HD?

SE delivers significantly higher vacuum (4400 vs 3100 mmH₂O) but lower airflow (1100 vs 2050 m³/h). Choose SE when dust is heavy/compact or hose is long. HD is better for lighter dust in large volumes.

Can I use the DG 300 SE ACD in ATEX Zone 22?

No -- certification to IEC 60335-2-69 Annex AA covers only non-ATEX-classified areas. Contact Particulair for equivalent ATEX-certified models.

Is AUT cleaning sufficient for 24/7 operation?

Yes, AUT shakes during stops. For true 24/7 scenarios the PN version is recommended, as it cleans during suction and keeps the dust cake fully removed without pauses.

Is the motor oil-free?

Yes -- the side-channel blower is sealed and oil-free. No carbon brushes or seals to replace, no oil change, no scheduled motor service during normal life.

Contact and advisory

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