

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 PN ACD



The Delfin DG 300 SE PN ACD is the top of the range in the high-vacuum category -- 20 kW three-phase side-channel blower with 5000 mmH<sub>2</sub>O max vacuum (4400 mmH<sub>2</sub>O continuous) and four cartridge filters totalling 260.000 cm<sup>2</sup>. PN cleaning during operation with on-board compressor provides constant vacuum performance without pauses, and the lowest air load in the range (42 m<sup>3</sup>/m<sup>2</sup>/h) maximises filter life. SE PN is optimised for heavy, compact dust where high vacuum is critical -- typically cement, ceramics, metal chips and other demanding materials. Sound level is 77 dB(A), slightly lower than HD PN thanks to the lower motor power.

### APPLICATIONS

- Continuous collection of iron and steel chips with high hose resistance
- Cement industry and heavy ceramic dust with constant production
- Glass grinding and polishing with fine particles and high vacuum demand
- Centralised installations with many users and long piping
- Production lines where PN cleaning's uninterrupted operation is critical for uptime

# Technical specifications

<b>ATEX marking</b>	CE ACD -- overholder IEC 60335-2-69 Annex AA (ikke ATEX-mærket) -- H-klasse HEPA H14 (EN 1822-5, 99,995 % MPPS)
<b>Internal / external zone</b>	20 / ikke-ATEX
<b>Motor type</b>	Sidekanalblæser, 3-faset (trifase) -- 20 kW
<b>Airflow</b>	1100 m <sup>3</sup> /h
<b>Vacuum</b>	490 mbar (5000 mmH <sub>2</sub> O)
<b>Container</b>	220 L
<b>Sound pressure</b>	77 dB(A)
<b>Filter class</b>	H class
<b>Filter type</b>	Klasse H HEPA H14, 103.500 cm <sup>2</sup> filterflade (99,995 % MPPS, EN 1822-5)
<b>Primary filter</b>	4 x polyester klasse M patronfilter (260.000 cm <sup>2</sup> aktiv filterflade, Polyester ANT M)
<b>Cleaning system</b>	PN -- pneumatisk filterrens under drift (kompressor ombord, trykluft-pulserensning af patronerne uden stop af sugning)
<b>Collection system</b>	Detachable container
<b>Material</b>	Lakeret staalkabinet som standard, rustfrit stål AISI 304 som option
<b>IP class</b>	IP65
<b>Power</b>	20.0 kW
<b>Current</b>	38.5 A
<b>Voltage</b>	400 V / 50 Hz / 3~
<b>Inlet</b>	Diameter 120 mm
<b>Dimensions (L x W x H)</b>	920 x 2200 x 2200 mm
<b>Weight</b>	760 kg

# Questions and answers

---

## Why choose SE PN over HD PN?

SE PN has significantly higher vacuum (5000 vs 4000 mmH<sub>2</sub>O) but lower airflow (1100 vs 2050 m<sup>3</sup>/h). Choose SE PN for heavy/compact dust and long hose runs. HD PN is better for lighter dust in large volumes.

## What is the difference between SE (AUT) and SE PN?

SE has a star filter (120.000 cm<sup>2</sup>) and AUT cleaning between cycles; SE PN has 4 cartridge filters (260.000 cm<sup>2</sup> -- more than double) and PN cleaning during suction. SE PN delivers higher continuous vacuum and significantly longer filter life but has a larger footprint (920 x 2200 vs 950 x 1800 mm).

## What is the air load on the cartridge filters?

42 m<sup>3</sup>/m<sup>2</sup>/h -- the lowest in the range and lower than many competing products. This yields minimal pressure drop across the filter and maximum life.

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

No. All ACD models are certified to IEC 60335-2-69 Annex AA and intended only for non-ATEX-classified areas. For Zone 22 choose an ATEX-certified model.

# Contact and advisory

---

## PARTICULAIR

### Particulair

Højtoften 12

2690 Karlslunde, Denmark

CVR: 34129894

Phone: (+45) 70 23 12 03

E-mail: [sales@particulair.com](mailto:sales@particulair.com)

Web: [particulair.eu](http://particulair.eu)

**Product page:** [particulair.eu/ex-vac/en/acd/dg-300-se-pn-acd/](http://particulair.eu/ex-vac/en/acd/dg-300-se-pn-acd/)

---

## SMARTER THINKING • BETTER WORKING

This datasheet is generated deterministically from Particulair product data. Prices and availability provided on request. All specifications subject to change without notice.