

DELFIN · II 3D EX H IIIC T135°C DC -- II 3G EX H IIB + H2 T4 GC

# Delfin DG 50 EXP Z2/22



The Delfin DG 50 EXP Z2/22 is the mid-range combined vacuum in the DG EXP series -- certified II 3GD for simultaneous Zone 2 gas and Zone 22 dust. The side-channel blower delivers 420 m<sup>3</sup>/h and 3200 mmH<sub>2</sub>O suction (2600 mmH<sub>2</sub>O continuous), and the 100 L detachable tank provides significantly longer run-time between emptying than the MTL 4533. The entire machine including the control box is ATEX-certified 3GD, and the primary filter is polyester class M ANT PTFE with H14 HEPA as standard.

## APPLICATIONS

- Refinery and petrochemical production with dust and lighter hydrocarbon vapours
- Pharmaceutical process maintenance with API dust and solvent traces
- Tank and silo service where both vapours and fine dust are present
- Chemical blending and compounding with VOC and fine powders
- Offshore workshops with mixed flammable substances

# Technical specifications

<b>ATEX marking</b>	II 3D Ex h IIIC T135°C Dc -- II 3G Ex h IIB + H2 T4 Gc
<b>Internal / external zone</b>	20 / 22
<b>Motor type</b>	Sidekanalblaeser, 3-faset (trifase) -- ATEX-certificeret 3GD
<b>Airflow</b>	420 m <sup>3</sup> /h
<b>Vacuum</b>	314 mbar (3200 mmH <sub>2</sub> O)
<b>Container</b>	100 L
<b>Sound pressure</b>	72 dB(A)
<b>Filter class</b>	H class
<b>Filter type</b>	Klasse H HEPA H14, 26.000 cm <sup>2</sup> filterflade (99,995 % MPPS, EN 1822-5)
<b>Primary filter</b>	Polyester klasse M stjerne-/taskefilter (30.000 cm <sup>2</sup> , 500 mm diameter, Polyester ANT PTFE)
<b>Cleaning system</b>	Manuel filterrensning
<b>Collection system</b>	Detachable container
<b>Material</b>	Lakeret stålkonstruktion
<b>IP class</b>	IP65
<b>Power</b>	4.0 kW
<b>Current</b>	8.7 A
<b>Voltage</b>	400 V / 50 Hz / 3~
<b>Inlet</b>	Diameter 80 mm
<b>Dimensions (L x W x H)</b>	660 x 1180 x 1450 mm
<b>Weight</b>	137 kg

# Questions and answers

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## What is the difference between DG 50 EXP Z2/22 and MTL 4533 Z2/22?

The DG 50 EXP has a larger tank (100 L vs 45 L), higher airflow (420 vs 318 m<sup>3</sup>/h) but the same max vacuum (3200 mmH $\blacksquare$ O). Choose DG 50 EXP for longer run-time between emptying; choose MTL 4533 for compact working areas.

## Is the DG 50 EXP Z2/22 approved for Zone 1 gas?

No -- only Zone 2 (category 3G). For Zone 1 gas contact Particulair for II 2G models.

## Why 30.000 cm<sup>2</sup> primary filter instead of 20.000?

The DG 50 EXP has a larger filter unit (500 mm diameter) providing lower air load and longer intervals between manual shaking.

## Can the pressure relief valve be reset or does it need replacement?

It is resettable -- triggered by a pressure spike and re-inserted after inspection. Should nevertheless be checked at each service cycle.

# Contact and advisory

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## PARTICULAIR

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