

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

Delfin MTL 4533 Z2/22



The Delfin MTL 4533 Z2/22 is a compact combined vacuum certified II 3GD -- built for areas where combustible dust and lighter ignitable gases can occur simultaneously. The side-channel blower delivers continuous suction (318 m³/h, 3200 mmH₂O max) and the entire unit including the control switchbox is ATEX-certified category 3GD for Zone 2 gas and Zone 22 dust. The detachable 45 L tank with optional disposable bag makes disposal safe and hygienic, and the integrated pressure relief valve equalises pressure spikes during sudden blockage.

APPLICATIONS

- Refinery maintenance with fuel residues and process combustible dust
- Pharmaceutical production with both solvent vapours and API powders
- Paint, adhesive and coating facilities with VOC vapours and pigment dust
- Chemical filling lines with intermittent gas exposure
- Oil and gas upstream workshops with both dust and hydrocarbon vapours

Technical specifications

ATEX marking	II 3D Ex h IIIC T135°C Dc -- II 3G Ex h IIB + H2 T4 Gc
Internal / external zone	20 / 22
Motor type	Sidekanalblaeser, 3-faset (trifase) -- ATEX-certificeret 3GD
Airflow	318 m ³ /h
Vacuum	314 mbar (3200 mmH ₂ O)
Container	45 L
Sound pressure	69 dB(A)
Filter class	H class
Filter type	Klasse H HEPA H14, 27.100 cm ² filterflade (99,995 % MPPS, EN 1822-5)
Primary filter	Polyester klasse M stjerne-/taskefilter (20.000 cm ² , 420 mm diameter, Polyester ANT PTFE)
Cleaning system	Manuel filterrensning
Collection system	Detachable container
Material	Lakeret stålkonstruktion
IP class	IP65
Power	3.0 kW
Current	6.2 A
Voltage	400 V / 50 Hz / 3~
Inlet	Diameter 80 mm
Dimensions (L x W x H)	580 x 930 x 1160 mm
Weight	85 kg

Questions and answers

Can I use the MTL 4533 Z2/22 in a pure Zone 1 gas atmosphere?

No -- II 3G means certification for Zone 2 where gas only occurs briefly during normal operation. For Zone 1 choose a II 2G-certified model.

What does "Z2/22" in the model name mean?

It indicates the two external zones the model may be used in: Zone 2 gas and Zone 22 dust simultaneously -- a so-called combined zone.

Is the side-channel blower built for 24/7 duty?

Yes, the side-channel blower is designed for continuous duty. Continuous vacuum rating is 2700 mmH \blacksquare O, while the maximum with safety valve installed is 3200 mmH \blacksquare O.

Is the HEPA filter standard?

Yes -- H14 HEPA to EN 1822-5 (99.995 % MPPS efficiency) is included, and the primary filter is polyester class M ANT PTFE.

Contact and advisory

PARTICULAIR

Particulair

Højtoften 12

2690 Karlslunde, Denmark

CVR: 34129894

Phone: (+45) 70 23 12 03

E-mail: sales@particulair.com

Web: particulair.eu

Product page: particulair.eu/ex-vac/en/atex-combi/mtl-4533-3g-3d/

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.