

DELFIN · II 3D EX H TC IIIC T80°C (INT)/T165°C (EXT) DC

# Delfin ZFR EL TR (Zefiro EL Three-phase)



The Delfin ZFR EL TR (Zefiro EL Three-phase) is the three-phase variant of the Zefiro family: an ATEX-certified industrial vacuum with side-channel blower for Zone 22. With 3 kW power it delivers higher vacuum (3000 mmH<sup>2</sup>O peak / 2300 mmH<sup>2</sup>O with HEPA) than the single-phase ZFR EL MN, and is self-certified per EN 17348:2022 in category 3D. Suited to medium production areas with continuous or high-frequency operation.

## APPLICATIONS

- Medium-sized ATEX Zone 22 production halls with three-phase supply
- Continuous collection on process plants with high vacuum demand
- Wood and MDF industry with ATEX Zone 22 and demand for high suction
- Chemical and pharmaceutical process equipment with three-phase power
- Cleaning on process plants and intermediate depots in ATEX zones

# Technical specifications

<b>ATEX marking</b>	II 3D Ex h tc IIIC T80°C (Int)/T165°C (Ext) Dc
<b>Internal / external zone</b>	22 / 22
<b>Motor type</b>	Sidekanalblæser, 3-faset (trifase)
<b>Airflow</b>	318 m³/h
<b>Vacuum</b>	294 mbar (3000 mmH <sub>2</sub> O)
<b>Container</b>	60 L
<b>Sound pressure</b>	76 dB(A)
<b>Filter class</b>	H class
<b>Filter type</b>	Klasse H HEPA, 26.000 cm² filterflade, H14-efficiens (99,995 % MPPS, EN 1822-5)
<b>Primary filter</b>	Stjerne/taske antistatisk polyester M, 30.000-500 cm²-mm
<b>Collection system</b>	Synthetic safebag
<b>Material</b>	Lakeret stålkonstruktion
<b>IP class</b>	IP65
<b>Power</b>	3.0 kW
<b>Current</b>	6.5 A
<b>Voltage</b>	400 V / 50 Hz / 3~
<b>Inlet</b>	Diameter 80 mm
<b>Dimensions (L x W x H)</b>	790 x 660 x 1700 mm
<b>Weight</b>	90 kg

# Questions and answers

---

## Why choose the ZFR EL TR over the MN?

The TR (three-phase) delivers 3 kW power and approximately 500 mmH<sub>2</sub>O more vacuum than the MN variant. This matches needs for higher air velocity, longer hose runs or denser dust. If you have three-phase power in the premises, the TR is typically the right choice on the Zefiro platform.

## Is the ZFR EL TR certified for Zone 21 or Zone 20?

No. The ZFR EL TR is categorised as 3D Dc, which only covers Zone 22. For Zone 21 with internal Zone 20, choose a 1/2D model such as the DM2 1/2D or DM2 EL 1/2D LP. For internal Zone 20, a 1/3D or 1/2D model must be used.

## How loud is the ZFR EL TR?

Sound pressure is 76 dB(A) measured per EN ISO 3744. That is roughly the level of a vacuum-cleaner canister or a larger silenced compressor. For quieter environments, the MTL 20.18 is available at 70 dB(A).

## Can I operate the ZFR EL TR continuously for 8-16 hours?

Yes. The side-channel blower is oil-free and has very long service life under continuous operation -- that is the reason the technology is preferred on the ZFR series over bypass or brushless motors. The pressure relief valve protects against overload from filter blockage.

# 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/atex-dust/zfr-el-tr/](http://particulair.eu/ex-vac/en/atex-dust/zfr-el-tr/)

---

## 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.