

21EEx2.2 Electric Positive Pressure Fan



The **TYPHOON 21EEx2.2-FU positive-pressure fan** is an electric solution designed to provide powerful, controlled ventilation in industrial environments at risk of explosive atmospheres. Its **2.2 kW** Ex-rated motor, combined with a variable-frequency drive, allows for smooth adjustment of the airflow up to **30,000 m³/h**.

More powerful than the 18EEx1.5-FU model, it meets the needs of facilities requiring greater air exchange capacity while maintaining a portable design. It is suitable for safety personnel, maintenance teams, and operators working in workshops, technical rooms, process areas, and medium-sized confined spaces.

A premium solution for medium-sized industrial spaces

With a nominal diameter of **21" / 533 mm**, the TYPHOON 21EEx2.2-FU offers an optimal balance between ventilation power, mobility, and footprint. Its wheeled chassis makes it easy to transport and position near a door, hatch, or service opening.

Its adjustable tilt range of **-20° to +50°** allows for precise directional control of the airflow based on the site's layout. The unit can thus be used to ventilate a lower-level room, address an elevated opening, or direct the airflow toward a specific area.

Adjustable airflow up to 30,000 m³/h

The variable-frequency drive allows the fan speed to be adjusted to the volume to be ventilated and the actual airflow required. The operator can limit the power for gradual ventilation or utilize maximum capacity when rapid air exchange is required.

This flexibility makes it easier to control airflow and allows operation to be adapted to the specific requirements of each application, without systematically using the maximum available power.

Benefits for the user

- **Adjustable airflow up to 30,000 m³/h** for handling medium-sized industrial spaces.
- **2.2 kW Ex-rated electric motor** suitable for sensitive environments.
- **Frequency converter** for precise adjustment of ventilation power.
- **21" portable design** offering a good balance between performance and portability.
- **Adjustable tilt from -20° to +50°** to effectively direct the airflow.
- **15-meter cable** for easy positioning in the work area.

Technical Specifications

Technical Specifications – TYPHOON 21EEx2.2-FU	
Product Type	Variable-speed electric positive-pressure fan
Model	TYPHOON 21EEx2.2-FU
Nominal diameter	21" / 533 mm
Motor	Ex-rated electric motor, 230/400 V, 50 Hz
Motor power	2.2 kW
Airflow	Adjustable from 0 to 30,000 m³/h
Marking	II 2G Ex h IIB T4 Gb X
Frequency converter	Smooth speed control with EX II (2) GD-certified safe shutdown
Drive protection	IP65
Cable length	15 m
Tilt	Adjustable from -20° to +50°
Fan weight	36 kg
Fan dimensions	640 × 625 × 450 mm
Mobility	Wheeled frame with carrying handle
Standard	DIN 14963-EM-ex

Applications

- Ventilation of technical rooms and classified workshops.
- Air exchange in process areas and industrial facilities.
- Ventilation of tanks, pits, ductwork, and intermediate confined spaces.
- Removal of contaminated air prior to maintenance or inspection operations.
- Temporary ventilation at chemical, petrochemical, energy, and waste treatment facilities.
- Applications requiring more power than an 18" compact fan.

FAQ – TYPHOON 21EEx2.2-FU Fan

When should you choose the TYPHOON 21EEx2.2-FU?

This model is suitable when the capacity of an 18" compact fan is insufficient, but a 30" unit would be too bulky. It

offers a good compromise for workshops, technical rooms, and medium-sized industrial spaces.

Can the fan's airflow be adjusted?

Yes. The variable-frequency drive allows you to gradually adjust the speed and airflow up to **30,000 m³/h**, so you can tailor the ventilation to the room's characteristics and the requirements of the operation.

What power supply is required?

The fan uses an Ex-rated **230/400 V, 50 Hz** motor. The power supply, electrical protections, and connections must be compatible with the site's electrical system and meet the requirements applicable to the specific area.

Can it be used with a ventilation duct?

Suitable ducts and accessories can be provided depending on the desired configuration. Their compatibility must be verified with regard to the fan's diameter, the required airflow, and the zoning requirements.