

21E3.0-FU Electric Positive Pressure Fan



The **TYPHOON 21E3.0-FU positive-pressure fan** is a high-performance solution designed for smoke extraction and ventilation in large indoor spaces that require precise control of airflow. Equipped with a **3 kW, 230 V electric motor paired with a built-in variable-frequency drive**, it allows the ventilation power to be gradually adjusted to meet the specific requirements of each operation.

Its 21" design combines high ventilation capacity with great flexibility in adjustment. Portable, powerful, and versatile, it meets the needs of fire departments, industrial operators, maintenance crews, and sites seeking controlled ventilation without direct exhaust emissions.

A premium solution for precisely ventilating large spaces

Mounted on wheels, the **TYPHOON 21E3.0-FU** moves easily around the site and can be positioned in front of a door, bay, or ventilation opening. Its variable-frequency drive allows the motor speed to be adjusted to the volume to be ventilated, the size of the opening, and the specific requirements of the operation.

Its **21" / 533 mm**, compliant with **DIN 14963-EM** standard —**size class 2**—delivers an adjustable airflow rate of **0 to 21,000 m³/h**, which can exceed **32,000 m³/h** depending on operating conditions. Weighing **30 kg**, it remains highly mobile despite its superior power.

A 3-kW variable-speed electric motor

Unlike an electric fan that operates only at a fixed speed, the **TYPHOON 21E3.0-FU** adjusts its motor speed using its built-in variable-frequency drive. This allows the user to gradually increase or decrease the airflow without interrupting operation.

Its **3 kW, 230 V electric motor** delivers more power than the **TYPHOON 18E3.0-FU**. It maintains an adjustable airflow while meeting the needs of larger buildings, workshops, halls, and industrial facilities.

Precise control for sensitive applications

Adjusting the airflow helps prevent excessive pressure buildup, minimize turbulence, and adapt the airflow to openings of specific dimensions. It also facilitates the implementation of gradual ventilation in environments where an immediate maximum airflow is undesirable.

This adjustability allows the same equipment to be used for a variety of applications, ranging from moderate air exchange in a mechanical room to high-flow smoke extraction in a large space.

Technical Specifications

Technical Specifications – TYPHOON 21E3.0-FU Positive Pressure Fan	
Product Type	Variable-speed electric positive-pressure fan
Model	TYPHOON 21E3.0-FU
Motor	230 V electric motor with integrated frequency converter
Motor Power	3 kW
Speed control	Variable speed via frequency converter
Airflow	Adjustable from 0 to 21,000 m³/h, up to over 32,000 m³/h depending on operating conditions
Weight	30 kg
Nominal diameter	21" / 533 mm
Connection	Power cable with 230 V IP68 plug
Specified standard	DIN 14963-EM – Size Class 2
Mobility	Wheel-mounted
Typical applications	Adjustable-flow smoke exhaust, large-volume ventilation, and sensitive industrial processes

Applications

- Ventilation of large spaces requiring adjustable airflow.
- Smoke exhaust for large buildings, halls, and workshops.
- Ventilation of mechanical rooms and sensitive industrial areas.
- Gradual adjustment of airflow to match the size and configuration of openings.
- Air renewal in facilities where a constant maximum airflow is not desirable.
- Extended indoor operations without direct exhaust gas emissions.

FAQ – TYPHOON 21E3.0-FU Positive Pressure Fan

What is the difference between the TYPHOON 21E3.0-FU and the TYPHOON 18E3.0-FU?

The TYPHOON 21E3.0-FU has a 21" diameter, a 3 kW motor, and an adjustable airflow of up to 21,000 m³/h. The TYPHOON 18E3.0-FU is more compact, uses a 2.2 kW motor, and is better suited for tight spaces and smaller areas.

Why reduce the airflow during an operation?

Reducing the airflow can help prevent excessive pressure buildup, limit turbulence, or adapt the airflow to a small opening. It is also useful for gradually ventilating a room or complying with the constraints of an industrial process.

Can the airflow be adjusted from zero?

The variable frequency drive allows for gradual control of the fan's operation up to the maximum available airflow. However, the minimum operating range and startup conditions must comply with the manufacturer's technical instructions.

What are the main advantages for an industrial site?

This fan combines **high airflow**, **precise power control**, and **an electric motor with no direct exhaust emissions**. It is a suitable solution for sites seeking versatile equipment capable of handling large volumes while maintaining precise control over the airflow.