

18E3.0_FU Electric Positive Pressure Fan



The **TYPHOON 18E3.0-FU positive-pressure fan** is a high-performance solution designed for smoke extraction and ventilation applications requiring precise airflow control. Equipped with a **2.2 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 application.

This adjustability makes it particularly well-suited for indoor spaces, openings of varying sizes, and industrial facilities where a constant maximum airflow is not always desirable. Compact, portable, and modular, it meets the needs of fire departments, industrial operators, and specialized maintenance teams.

A premium solution for precise airflow control

Mounted on wheels, the **TYPHOON 18E3.0-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 and airflow to be adjusted to the building's layout, the volume to be treated, or the constraints of an industrial process.

Its **18" / 457 mm**, compliant with **DIN 14963-EM** standard —**size class 1**—delivers an adjustable airflow rate of **0 to 16,500 m³/h**, which can exceed **26,000 m³/h** depending on operating conditions. Weighing **25 kg**, it combines compactness, portability, and adjustability.

A variable-speed electric motor

Unlike a fixed-speed electric fan, the **TYPHOON 18E3.0-FU** allows the motor speed to be varied thanks to its built-in frequency converter. This enables the user to gradually increase or decrease the airflow without interrupting operation.

Its **2.2 kW, 230 V electric motor** operates without fuel and produces no direct exhaust emissions. The power cord connection with a **230 V IP68** plug facilitates its use in professional environments with a suitable power supply.

Adjustment Suited to Sensitive Configurations

In particular, the ability to vary the airflow helps prevent excessive pressure buildup, limit turbulence, or adapt the flow to a small opening. This feature is also useful for industrial operations requiring gradual and controlled air exchange.

Speed control thus offers greater flexibility than a fan operating solely at its rated speed. It allows the same equipment to be used for various configurations, ranging from moderate ventilation to the maximum available airflow.

Technical Specifications

Technical Specifications – TYPHOON 18E3.0-FU Positive Pressure Fan	
Product Type	Variable-speed electric positive-pressure fan
Model	TYPHOON 18E3.0-FU
Motor	230 V electric motor with integrated frequency converter
Motor Power	2.2 kW
Speed control	Variable speed via frequency converter
Airflow	Adjustable from 0 to 16,500 m ³ /h, up to over 26,000 m ³ /h depending on operating conditions
Weight	25 kg
Nominal diameter	18" / 457 mm
Connection	Power cable with 230 V IP68 plug
Specified standard	DIN 14963-EM – Size Class 1
Mobility	Wheel-mounted
Typical applications	Adjustable-flow smoke exhaust, ventilation of sensitive environments, and industrial processes

Applications

- Ventilation of sensitive environments requiring an adjustable airflow rate.
- Smoke exhaust in buildings where a constant maximum airflow is not desirable.
- Ventilation of openings of varying sizes.
- Gradual air renewal in technical rooms and workshops.
- Industrial ventilation requiring precise adaptation to process constraints.
- Extended indoor operations without direct exhaust gas emissions.

FAQ – TYPHOON 18E3.0-FU Positive Pressure Fan

What is the advantage of the variable-frequency drive compared to the TYPHOON 18E3.0?

The variable frequency drive allows for gradual adjustment of motor speed and airflow. The TYPHOON 18E2.2 operates at a fixed speed, whereas the TYPHOON 18E3.0-FU can be more precisely adapted to the size of the opening and the volume to be ventilated.

What type of power supply is required?

The fan requires a **230 V** AC power supply compatible with its **2.2 kW** motor power. The variable frequency drive is built into the unit and does not require external control equipment.

Why reduce the airflow during a ventilation operation?

A reduced airflow rate can be useful to prevent excessive pressure buildup, limit turbulence, accommodate a small opening, or ensure a gradual air exchange in a mechanical room or a sensitive industrial environment.

Can the airflow actually be adjusted from zero?

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