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EFC1P electronic speed controller

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[www.exhausto.com](http://www.exhausto.com)

**EXHAUSTO**

## General

For fans with FC or EC motors

Electronic speed regulator for FC motors, uses 0-10 V control signal. Used for manual variable rpm control for all EXHAUSTO fans installed with FC or EC motors. With EFC1P, the rpm can be variably controlled over the interval 25-100%.

The control panel contains a potentiometer with a circuit breaker built into the control knob.

## Installation

### Installation of EFC1P

The supply cable must be dimensioned in accordance with applicable regulations and legislation. The conditions at the installation location, including temperature and the path of the cable must be taken into consideration.

The EC/FC motor has current overload and overheating protection. The motor needs no additional protection. The fault indication output of the motor cannot be used for external fault reporting, as it is used with the EFC1P.

When installing multiple single-phase ventilators with EC/FC motors in the same network with a shared neutral conductor, special requirements apply to the dimensioning of this conductor, as the current is not a pure sine wave. For example, if three single-phase ventilators with EC/FC motors are installed and divided between three phases, the current in the neutral conductor is equal to that of the three ventilators combined.

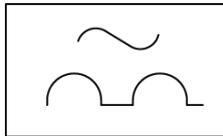
If you are fitting fan units to an existing installation, make sure that the neutral conductor can cope with the resultant load.

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### Earth leak circuit breakers

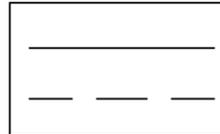
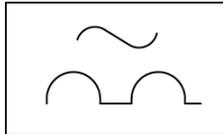
Only Type-A earth-leakage circuit breakers can be used with single-phase ventilators with EC/FC motors. These circuit breakers also break the circuit when DC current (pulsating DC) is detected.

These circuit breakers are marked with:



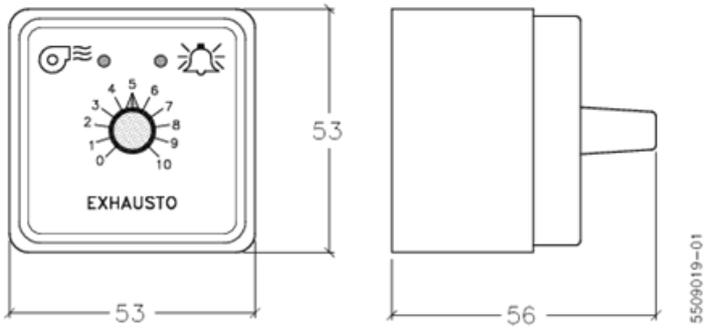
Only Type-B earth leak circuit breakers can be used with three-phase ventilators with EC/FC motors.

These circuit breakers are marked with



## Dimensional drawing

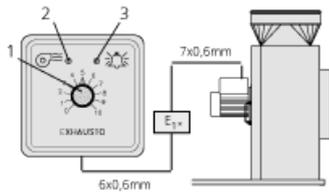
EFC1P



The EFC1P speed regulator control panel controls the motor controller in the EC/FC motor. The linear 0-10 scale sets the ventilator's rotary speed. The control panel contains a potentiometer with a circuit breaker built into the control knob.

## Functions

### EFC1P



1. Start/stop and speed setting of the ventilator (potentiometer with built-in on/off switch)
2. Operating LED (green) for the fan motor.
3. Alarm LED (red) to indicate motor overheating or over current.

For more information regarding electrical connection, refer to the EFC1P product instructions.

## Technical data

EFC1P

Type	EFC1P
Ambient temperature	-20°C - +40 °C
Min. output voltage	Integral potentiometer
Ingress protection	IP20
Material	ABS thermoplastic
Colour	White
Minimum aperture for installation HxWxD	53 x 53 x 56

## **EXHAUSTO** Your ventilation expert and professional business partner

At EXHAUSTO we never compromise on quality, and since we are experts in ventilation with many years of specialised experience, you can be assured of not just the best ventilation solution but also a competent business partner.

EXHAUSTO develops and manufactures high-quality products and systems for comfort ventilation in all areas of use – from offices, shops, schools and institutions to industrial buildings, hotels and hospitals. With a focus on high efficiency ratings and an energy consumption which sets new industry standards, EXHAUSTO is one of the absolute leaders of the field.



### **LIVING** RESIDENTIAL VENTILATION

Our homes are becoming steadily more airtight. This is a result of striving to bring down energy consumption. But what is good for energy consumption may be bad for indoor climate. Airtight construction makes it hard to evacuate humidity, and humidity provides good growth conditions for mould. Mould not only damages the actual building, but also leads to an unhealthy indoor climate which affects our health and well-being.



### **WORKING** OFFICE VENTILATION

Did you know that studies have shown that a poor indoor climate can affect your employees' productivity by as much as 15%? And that the number of errors made goes up as temperatures rise above 20-22°C or CO<sub>2</sub> levels top 1000 ppm?



### **LEARNING** SCHOOL VENTILATION

In less than an hour, schoolchildren hit the CO<sub>2</sub> wall. They become tired, get head-aches and lack concentration. A poor indoor climate impairs the teacher's working conditions and drastically reduces pupils' ability to learn.

[www.exhausto.com](http://www.exhausto.com)

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**EXHAUSTO**