



# PRIO 450 3~ EC

Item no. 11562



## Description

- EC-motors, high level of efficiency
- 100% speed controllable
- Integrated motor protection
- Supplied with mounting bracket
- Potentiometer included for ease of commissioning

EC technology is intelligent technology; using integral electronic control which eliminates the slip losses in the motor and ensures that the motor always runs at optimal load and guarantees that the proportion of energy utilized effectively is many times higher and the energy usage considerably lower compared with AC motors.

EC fans are notable for their economical use of energy and excellent ease of control. They can be varied in speed to match the airflow demand, and operate at high efficiency levels. For the same air volume, they consume distinctly less energy than AC fan drives.

Another special feature of EC fans is their energy-saving potential not only at full load, but especially at part-load. When operating at part-load, the energy used is much lower than with an asynchronous motor of equivalent output. Reduced energy usage guarantees a drop in operating costs.

The fan have external rotor motor (EC) with a mixed flow impeller which reduces the external dimensions of the fan. This fan have a high capacity in relation to its compact design. Brackets are supplied with the fan to make installation easier. The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct. The fan is delivered with a pre-wired potentiometer(0-10V) that allows you to easily find the desired working point.

Motor protection is integrated in the electronics of the motor. The casing is manufactured from galvanised sheet steel.



## Technical parameters

Nominal data		
Voltage	400	V
Frequency	50/60	Hz
Phase	3	~
Input power (P1)	1872	W
Current	2,91	A
Max. airflow	2,57	m <sup>3</sup> /s
R.p.m.	1607	r.p.m.
Weight	28,6	kg
Temperature data		
Max. temperature of transported air	40	°C
Sound data		
Sound pressure level at 3 m	69,3	dB(A)

### Get In Touch

Call: [0845 6880112](tel:08456880112)  
 Email: [info@adremit.co.uk](mailto:info@adremit.co.uk)

### Our Address

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 Settle, North Yorkshire, BD24 9RH



**Protection / Classification**

Insulation class F

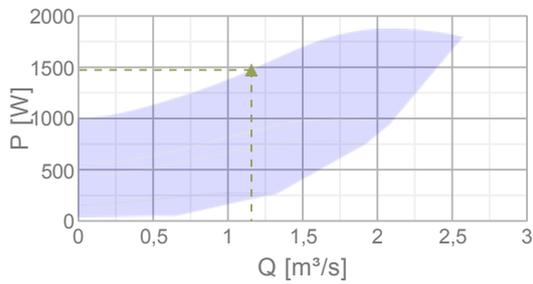
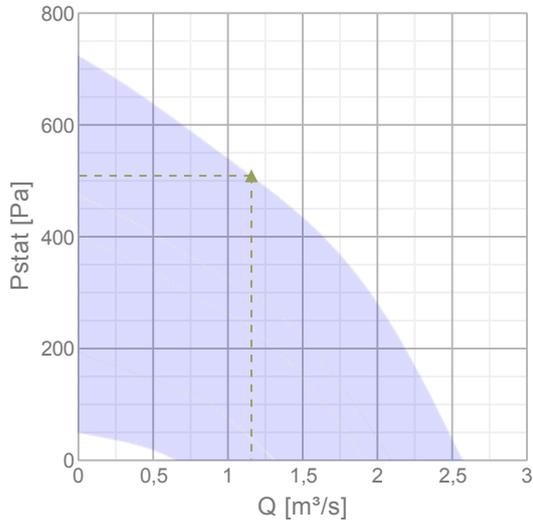
Enclosure class, motor IP54

**ErP**

ErP ready ErP 2018

**Default group**

Max. temperature of transported air when speed-controlled 60 °C

**Diagrams****Diagrams****Max efficiency****Hydraulic data**

▲ Working air flow	1,16 m³/s
▲ Working static pressure	509 Pa
▲ Power	1473 W
Speed	1605 r.p.m.
Current	2,31 A
SFP	1,27 W/(l/s)
Voltage	400 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Tot
Inlet	dB(A)	66	82	82	83	82	78	72	64	89
Outlet	dB(A)	63	81	81	86	86	81	75	68	91
Surrounding	dB(A)	31	57	70	71	72	66	56	46	76

Name: **PRIO 450 3~ EC** | Item no.: **11562**

2 / 4

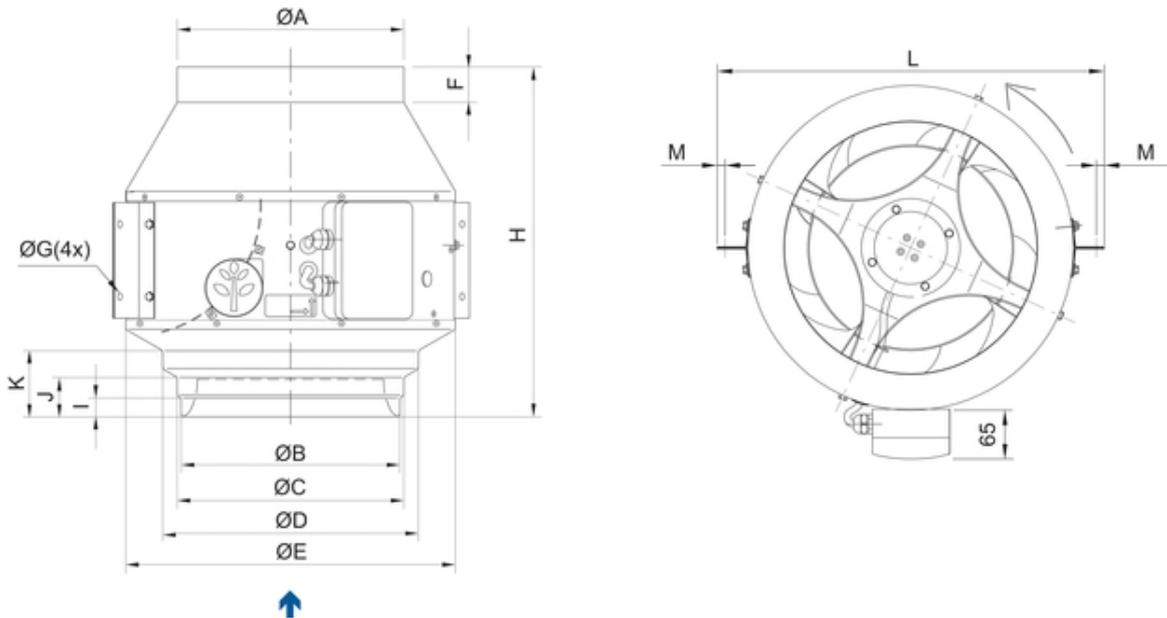
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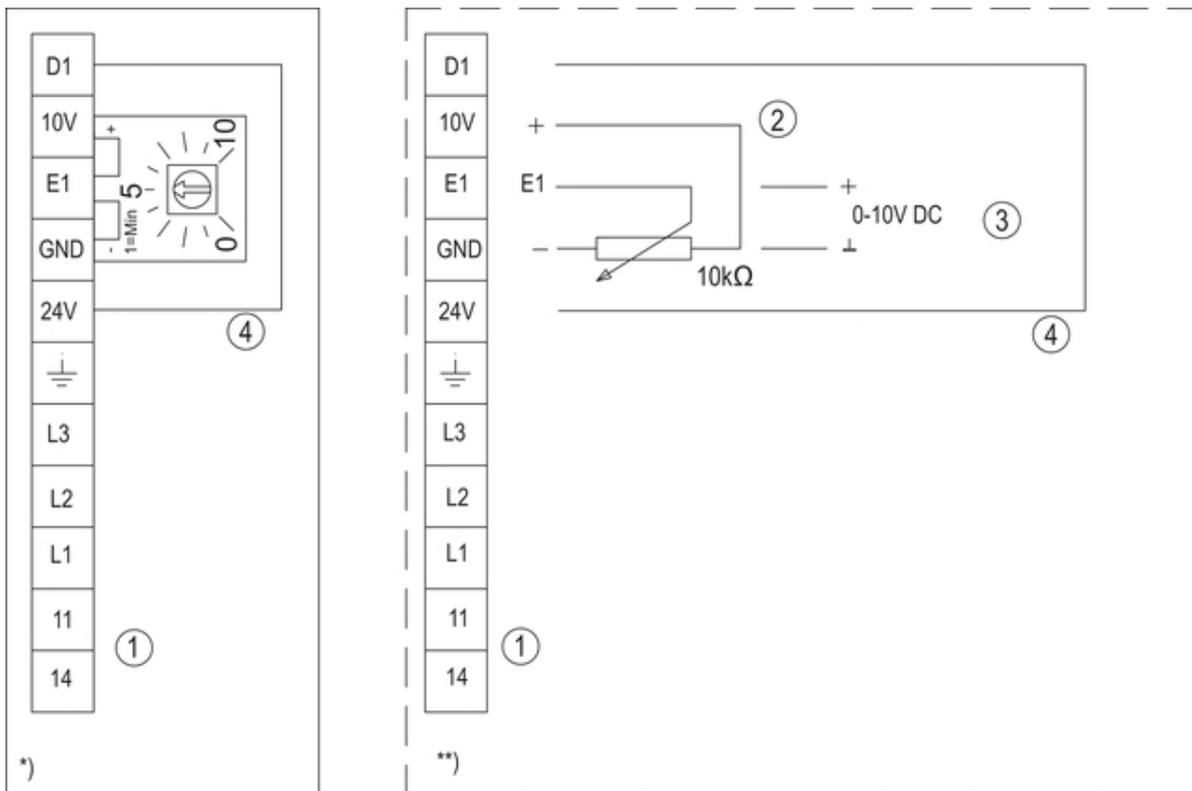
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## Dimensions



	A	B	C	D	E	F	G	H	I	J	K	L	M
<b>PRIO 450 EC</b>	450	-	450	500	663	46	12	686	-	50	121	742	9
<b>PRIO 500 EC</b>	500	-	450	500	663	46	12	642	-	50	121	742	9

## Wiring



\*) = Internal potentiometer

\*\*) = External speed control

1 11 & 14 = Alarm

For operation the relay is energized, connections "11" and "14" are bridged.

For fault the relay is de-energized (Diagnostics/faults).

Contact rating max. AC 250V 2A.

2 External potentiometer

3 External input DC 0...10V

4 External ON / OFF control via potential free contact

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## Accessories

### Electric accessories

[RT 0-30 Room Thermostat \(5151\)](#)  
[CO2RT-R-D Transmitter \(6993\)](#)  
[Presence detector/IR24-P \(6995\)](#)  
[MTV-1/010 Controller 0..10V+ \(30650\)](#)  
[DMD-C Pressure controller \(15793\)](#)  
[MTP 10, 10K, Speed control \(32731\)](#)  
[EC-Vent Room Unit \(3018\)](#)  
[EC-Vent control board \(3115\)](#)  
[MTP 20, on/off, 3-step \(310220\)](#)  
[EC-Basic-H humidity \(24807\)](#)  
[EC-Basic-T temperature \(24805\)](#)  
[EC-Basic-U universal 0-10V \(24806\)](#)  
[EC-Basic-CO2 and temperature \(24808\)](#)  
[EC-Selector \(9908\)](#)  
[CXE/AVC Modbus \(37256\)](#)  
[S-5EC/FRQ \(76738\)](#)

### Accessories

[FK 450 Fast clamp \(1616\)](#)  
[SG 450 Protection guard \(5614\)](#)  
[VK-45 Louvre shutter \(5645\)](#)  
[RSK-450 Back draft dmp. \(9768\)](#)

## Documentation



[202341\\_Fans\\_Instructions\\_CE\\_A010.pdf \(1,83MB\)](#)



[EC-fans\\_Operation\\_and\\_maintenance\\_instr\\_206268\\_CE\\_\(A022\).pdf \(2,88MB\)](#)

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