

prio 150EC circ. duct fan

Item Number: 78184 Variant: 230V 1~ 50/60Hz





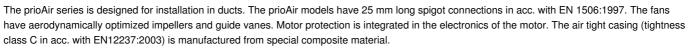
EC-motors, high level of efficiency Low SFP values 100% speed controllable Integrated motor protection Can be installed in any position Compact design

Low sound level

Potentiometer included for ease of commissioning

EC fans are intelligent devices using integrated motor electronics, ensuring that the motor always runs at optimal load. With EC motors the proportion of energy utilized effectively is higher, which as a result reduces the energy usage considerably, compared with AC motors. Another special feature of EC fans is their energy-saving potential not only at full load, but especially when speed controlled, i.e. at part load. When operating at part-load, the energy used is much lower than with an asynchronous motor of equivalent output.

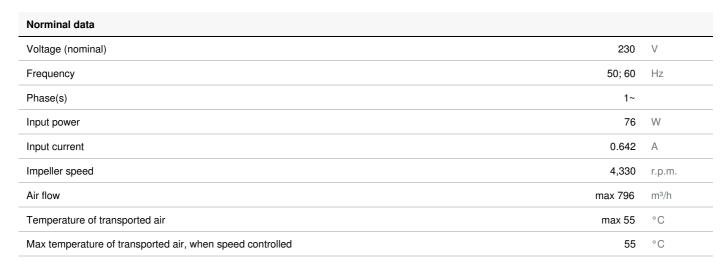




The mounting clamp facilitates easy installation and removal, and prevents the transfer of vibrations to the duct. Mounting bracket to the wall or ceiling as accessory.

For installation in damp locations we recommend to use a run-on timer. The fans are delivered with a pre-wired potentiometer (0-10 V) that allowes you to easily find the required working point.

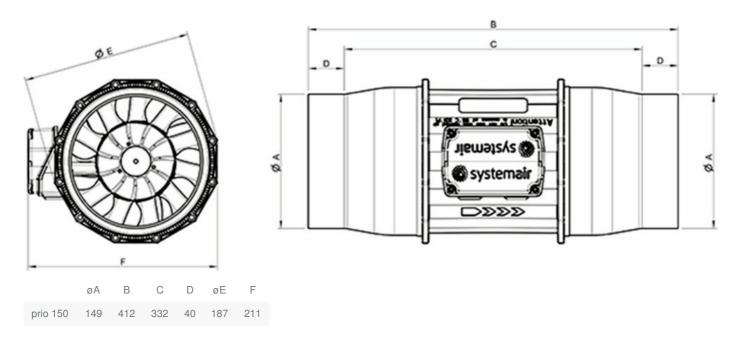






48	dB(A)
IP44	
В	
150	mm
150	mm
1.9	kg
Circular	
EC	
	IP44 B 150 150 1.9

Dimension



Wiring

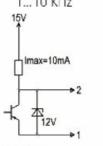
9.3.1.1 Wiring diagram prioAir EC

The fans are delivered with a pre-wired potentiometer (0-10 V)

Client side



Adjustable speed through PWM 1...10 KHz



100 % PWM -> n = max 10 % PWM -> n = min < 10 % -> 0 Adjustable speed

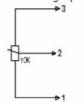
2

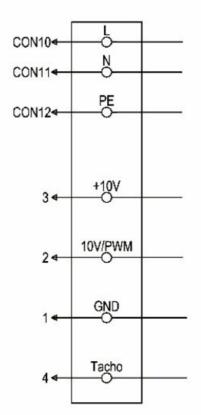
1-1-10V

10V -> n - max
1V -> n min

<1V -> 0

Factory setting Adjustable speed through potentiometer





Wire no.	Connection	Color	Function/assignment
CON10	T	black or brown	Power supply 730 V AC, 5060 Hz, see name plate for voltage range
CON11	N	blue	Neutral conductor
CON12	PE	green/yellow	Protective conductor
1	GND	blue	GND-connection of the controller interface
2	010 V PWM	yellow	Controller input 010 V or PWM
3	10 V	red	Voltage output 10 V / Short-circuit-proof power supply fo external devices (e.g. poti) prioAir 150EC, prioAir 160EC > I max=1.1mA prioAir 200ECprioAir 250EC > I max=10mA
4	Tacho	white	Speed output: Open Collector, 1 impulse per revolution, electrically isolated, Isink max = 10 mA

Accessories

- CO2RT-R-D Transmitter (6993)
- EC-Vent control board (3115)
- MTP 10, 10K, Speed control (32731)
- MTV-1/010 Controller 0..10V+ (30650)
- prio 150/160 mount. br. compl. (79314)
- RT 0-30 Room Thermostat (5151)

- CXE/AVC Modbus (37256)
- EC-Vent Room Unit (3018)
- MTP 20, on/off, 3-step (310220)
- Presence detector/IR24-P (6995)
- REV-3POL/03 ON/OFF (33978)

Documents

- MANUAL PRIOAIR EN [006].PDF
- prio160 150 dxf o rahmen.dxf
- EU DECLARATION OF CONFORMITY_PRIO_EN_001.PDF