

## prio 200 EC

### Description

- 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

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. Reduced energy usage guarantees a drop in operating costs.

The prioAir series is designed for installation in ducts. The prioAir models have 25 mm long spigot connections in acc. with EN 1506:1997. The fans have aerodynamically optimized impellers and guide vanes. Motor protection is integrated in the electronics of the motor. The air tight casing (tightness class C in acc. with EN12237:2003) is manufactured from special composite material.

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.



### Technical parameters

Parameter	Value	Unit	Used in
Voltage	230	V	Systemair, Measurements
Frequency	50/60	Hz	Systemair, Measurements
Phase	1	~	Systemair, Measurements
Power	117	W	Systemair, Measurements
Current	1.06	A	Systemair, Measurements
Max. airflow	1332	m <sup>3</sup> /h	Systemair
Fan impeller speed	3399	r.p.m.	Systemair
Max. temperature of transported air	55	°C	Systemair
Sound pressure level at 3 m	50	dB(A)	Systemair
Weight	2.4	kg	Systemair, Measurements
Insulation class, motor	B		Systemair
Enclosure class, motor	44	IP	Systemair

### Performance

**Performance**

Input data

Required point

Air flow

m³/h

Static pressure

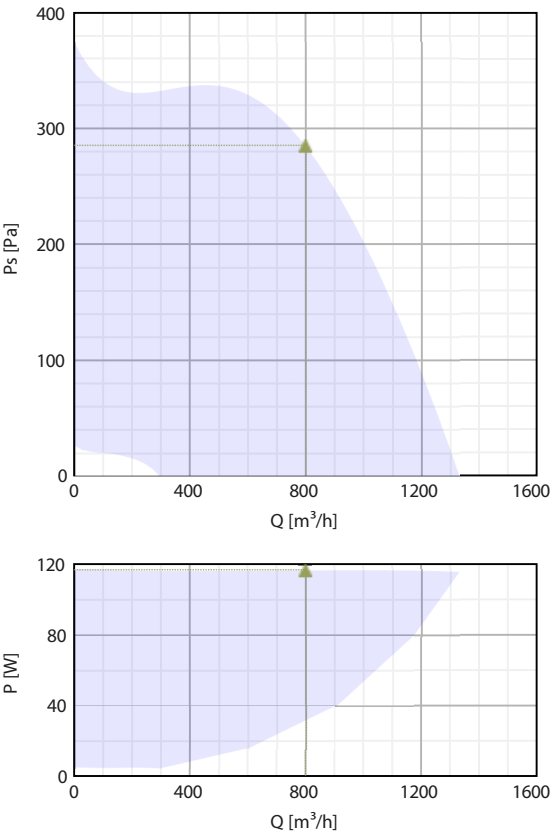
Pa

Regulation

Selection method

System line

Diagrams



Hydraulic data

	Working point						
	Q [m³/h]	P <sub>s</sub> [Pa]	P [W]	n [r.p.m.]	I [A]	SFP [kW/m³/s]	U [V]
Max efficiency	▲ 798	▲ 285	▲ 116	3514	1.06	0.525	230

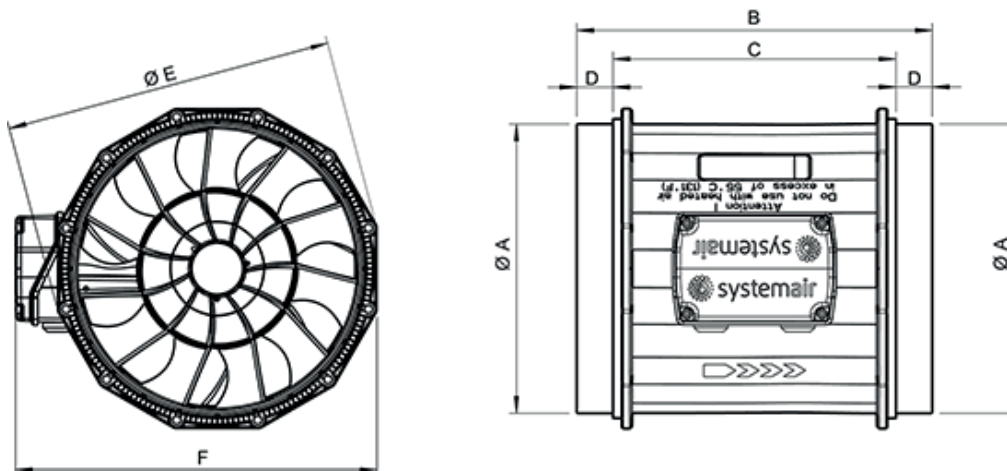
Acoustic data

Acoustic filter

A-filter

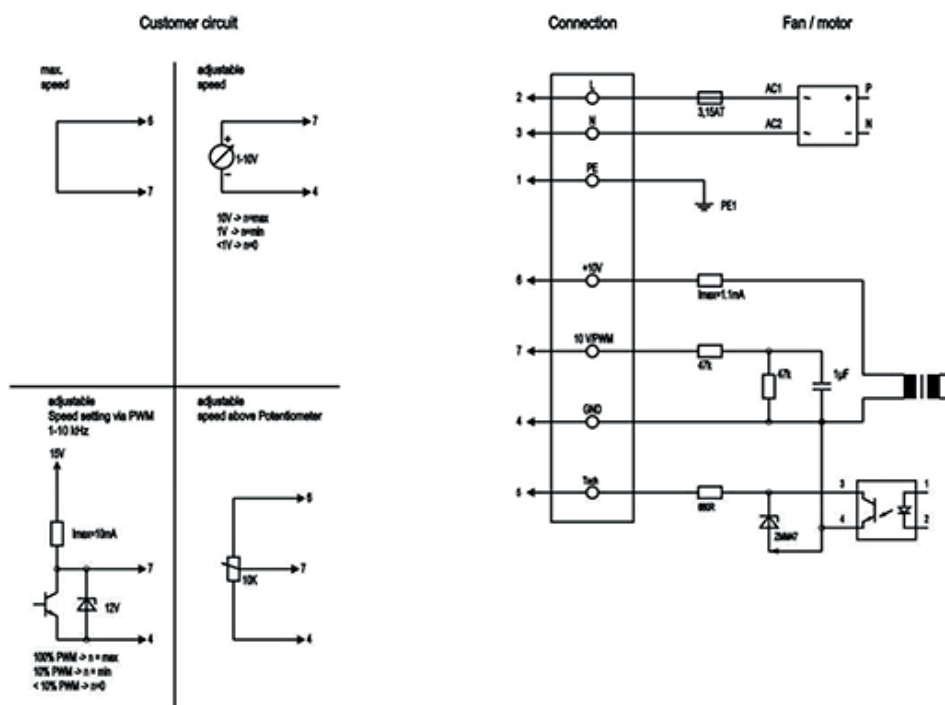
Sound power level		63	125	250	500	1k	2k	4k	8k	Tot
Inlet	dB(A)	27	27	48	56	62	60	57	49	65

## Dimensions



	øA	B	C	D	øE	F
Prio 200	199	245	195	25	227	249

## Wiring



Line	No.	Signal	Colour	Function / assignment
	2	L	brown	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	7	0-10V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	5	Tacho	white	Tach output: open collector, 1 pulse per revolution, electrically isolated, Isink_max=10mA
	6	10V/ max 1.1mA	red	Voltage output 10 V/ 1.1 mA, electrically isolated
	4	GND	blue	GND - Connection for control interface

## Accessories

### Electric accessories

Cebocon10  
CO2RT-R-D Transmitter  
CXE/AV Digital regulator  
CXE/AVC 230V ZEC640 Regulator  
DMD-C Pressure controller  
EC-Vent control board  
EC-Vent Room Unit  
HR1 Room Humidistat IP21  
MTP 10, 10K, Speed control  
MTP 20, on/off, 3-step  
MTV-1/010 Controller 0..10V+  
Presence detector/IR24-P  
REV-3POL/03 ON/OFF  
RT 0-30 Room Thermostat  
TR 1

### Accessories

CB 200/S1/3,0KW 400V/2Duct hea  
CB 200-2,1 230V/1 Duct heater  
CB 200-3,0 230V/1 Duct heater  
CB 200-5,0 400V/2 Duct heater  
CBM 200-5,0 400V/2 Duct heater  
CWK 200-3-2,5 Duct cooler,circ  
FFR 200 Filter cassette  
FFR-S 200 cassette  
FGR 200 Filter cassette G3  
FGR-S 200 filter cassette EU3  
FK 200 Fast clamp  
GRK 200 CH Round Damper  
IGC-200 Intake grid  
IGK-200 Wall Grid  
LDC 200-600 Silencer  
LDC 200-900 Silencer  
MRK 200 CH Round Damper  
MRZ 200 CH Round Damper  
RSK-200 Back draft damper  
SG 200 Protection guard  
THB 200 Hood w. cover pl. Red  
THB 200 Hood w.cover pl. black  
THS 200 Hood w. cover pl. Red  
THS 200 Hood w.cover pl. black  
VBC 200-2 Water heating batt  
VBC 200-3 Water heating batt  
VBF 200 Water heating battery  
VK-20 Louvre shutter  
VKK-200 Back draft damper

## Specification text

## Documentation



[IMO\\_prioAir.pdf](#)



[2013-06 EC Declaration of Conformity\\_prioAir\\_DE-EN.pdf](#)