

prio 150E2 circular duct fan

Axial circular duct fan, <125W

Item Number: 37355

Variant: 230V 1~ 50Hz



- Speed-controllable
- Integral thermal contacts
- Can be installed in any position
- Compact design
- Low SFP values and high efficiency
- Low sound level

The prioAir series is designed for installation in ducts. PrioAir fans have 25 mm long spigot connections in acc. with EN 1506:1997.

The fans have aerodynamically optimized impellers and guide vanes with integrated external rotor motors. The fans can be speed-controlled via a stepless thyristor or a 5-step transformer. To protect the motor from overheating the fan has integrated thermal contacts with manual reset in acc. with EN 60335-2-80.

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

Nominal data		
Voltage (Nominal)	230	V
Frequency	50	Hz
Phase(s)	1~	
Input power	28	W
Input current	0.123	A
Impeller speed	2,403	r.p.m.
Air flow	max 0.122	m ³ /s
Capacitance of capacitor	0.7	μF
Temperature of transported air	max 55	°C
Max temperature of transported air, when speed controlled	55	°C
Sound data		
Sound pressure level at 3m (20m ² Sabin)	40	dB(A)
Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	
Data according to ErP		
ErP ready	ErP 2018	

Dimensions and weights

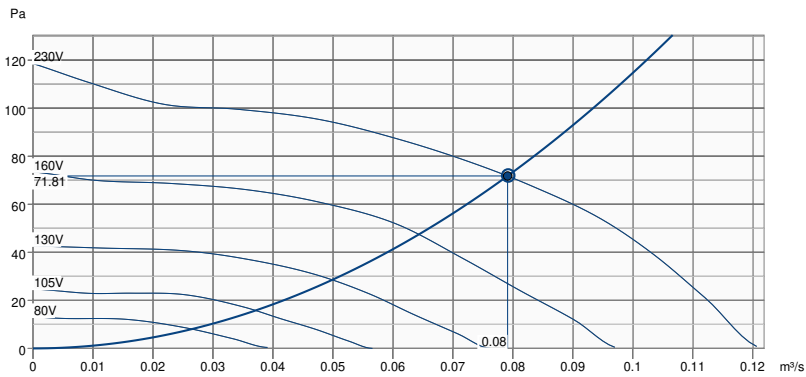
Duct dimension; Circular, inlet	150	mm
Duct dimension; Circular, outlet	150	mm
Weight	1.7	kg

Others

Duct connection type	Circular
Motor type	AC

Performance

Performance curve

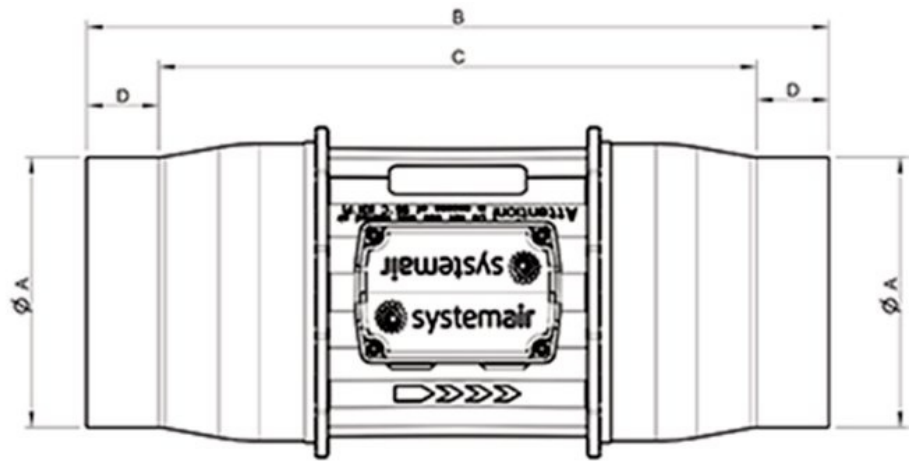
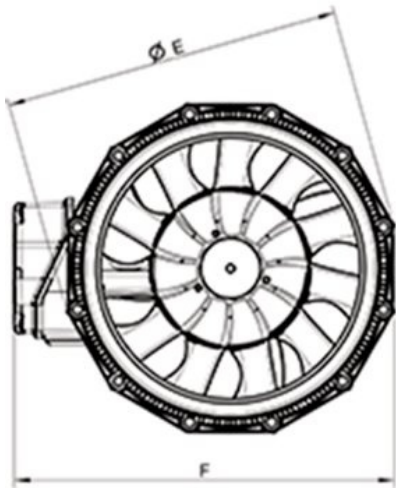


Hydraulic data

Required air flow	0.08 m³/s
Required static pressure	72 Pa
Working air flow	0.08 m³/s
Working static pressure	72 Pa
Air density	1.204 kg/m³
Power	27.0 W
Fan control - RPM	2410 rpm
Current	0.12 A
SFP	0.341 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

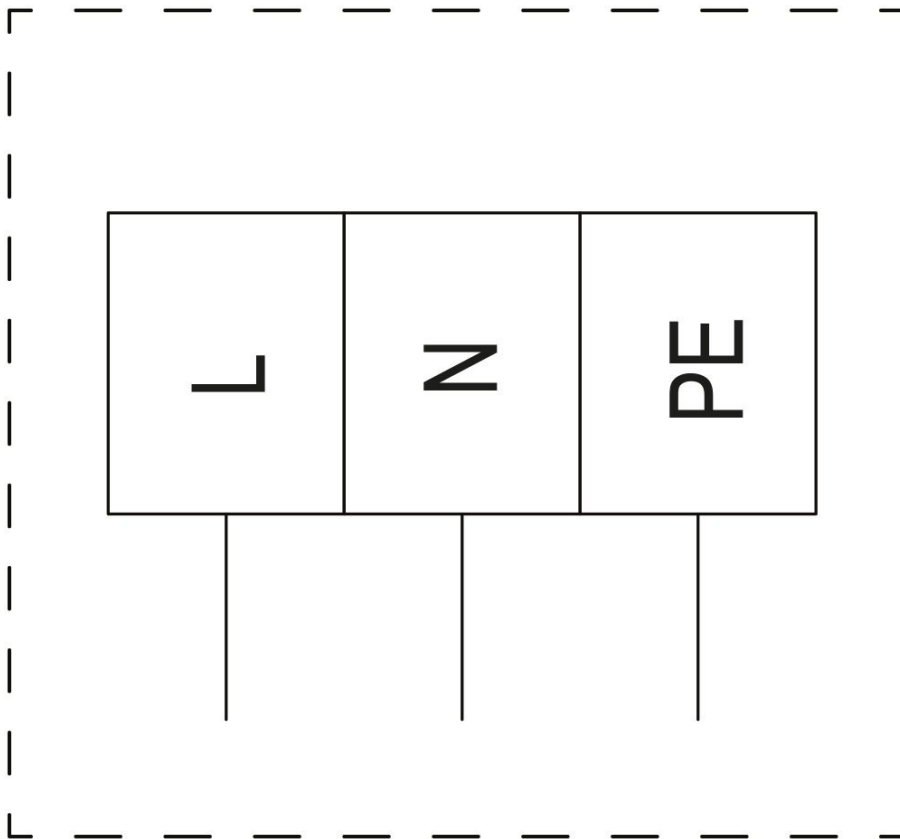
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	40	54	61	56	52	51	45	33	64
Outlet	dB(A)	36	55	55	58	53	51	44	31	62
Surrounding	dB(A)	<10	15	46	35	36	38	26	15	47
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	40
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	26

Dimension



	øA	B	C	D	øE	F
prio 150	149	412	332	40	187	211

Wiring



Function / assignment

L Power supply 230V AC, 50...60Hz

N Neutral conductor

PE Protective conductor

Speed control: Voltage controllable (See accessories in our online catalogue)

Motor protection: By integrated thermal contacts

Accessories

- FRQ5S-E-6A (37421)
- REE 1 Speed control (5314)
- RETP 6 Temp/Pressure regulator (32293)
- SG 150 Protection guard (5555)
- DTV500A (96807)
- HR1 Room Humidistat (215150)
- prio 150/160 mount. br. compl. (79314)
- FFR 150 Filter cassette (1769)
- FK 150 Fast clamp (1609)
- RE 1,5 Speed control (5000)
- REPT 6 Digital regulator (5698)
- REU 1.5 Speed control (5004)
- CO2RT-R-D Transmitter (6993)
- FRQS-E-6A (37419)
- Presence detector/IR24-P (6995)
- RT 0-30 Room Thermostat (5151)
- FGR 150 Filter cassette (1807)
- RSK-150 Back draft damper (5599)

Documents

- imo_prioair_en_002
- prio160_150_dxf_o_rahmen.dxf
- UKCA DECLARATION OF CONFORMITY_PRIO_PRIO-XP_EN_001.PDF

Specification