

prio 355 EC

Axial circular duct fan, EC motor

Item Number: 87999

Variant: 230V 1~ 50/60Hz



- Circular duct fan
- Compact design
- High efficiency and low SFP in a real working point
- Low sound level
- Air tight design
- Potentiometer included, possible to speed control 0-100%
- Simple to install, mounting brackets included
- Integrated motor protection

The prio fans is designed for installation in ducts. The casing is manufactured from sheet metal. The fans are delivered with a pre-wired potentiometer (0-10V) that allows you to easily find the desired working point.

Outdoor mounting and wet room applications are possible due to the fans air tight casing and the IP 55 rated terminal box.

Motor protection is integrated in the electronics of the motor.

The FK mounting clamp (accessory) facilitates easy installation and removal, and prevents the transfer of vibration to the duct.



Technical parameters

Nominal data		
Voltage (Nominal)	230	V
Frequency	50; 60	Hz
Phase(s)	1~	
Input power	738	W
Input current	3.24	A
Impeller speed	1,900	r.p.m.
Air flow	max 1.647	m³/s
Temperature of transported air	max 55	°C
Max temperature of transported air, when speed controlled	55	°C
Sound data		
Sound pressure level at 3m (20m² Sabin)	60	dB(A)
Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	F	

Data according to ErP

ErP ready

ErP 2018

Dimensions and weights

Duct dimension; Circular, inlet

355 mm

Duct dimension; Circular, outlet

355 mm

Weight

15.32 kg

Others

Duct connection type

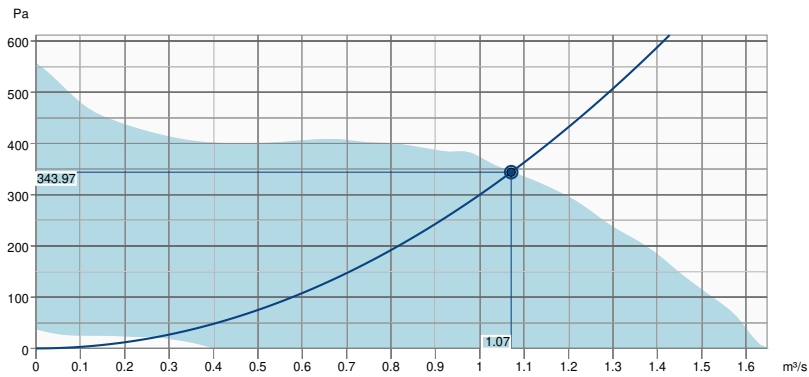
Circular

Motor type

EC

Performance

Performance curve



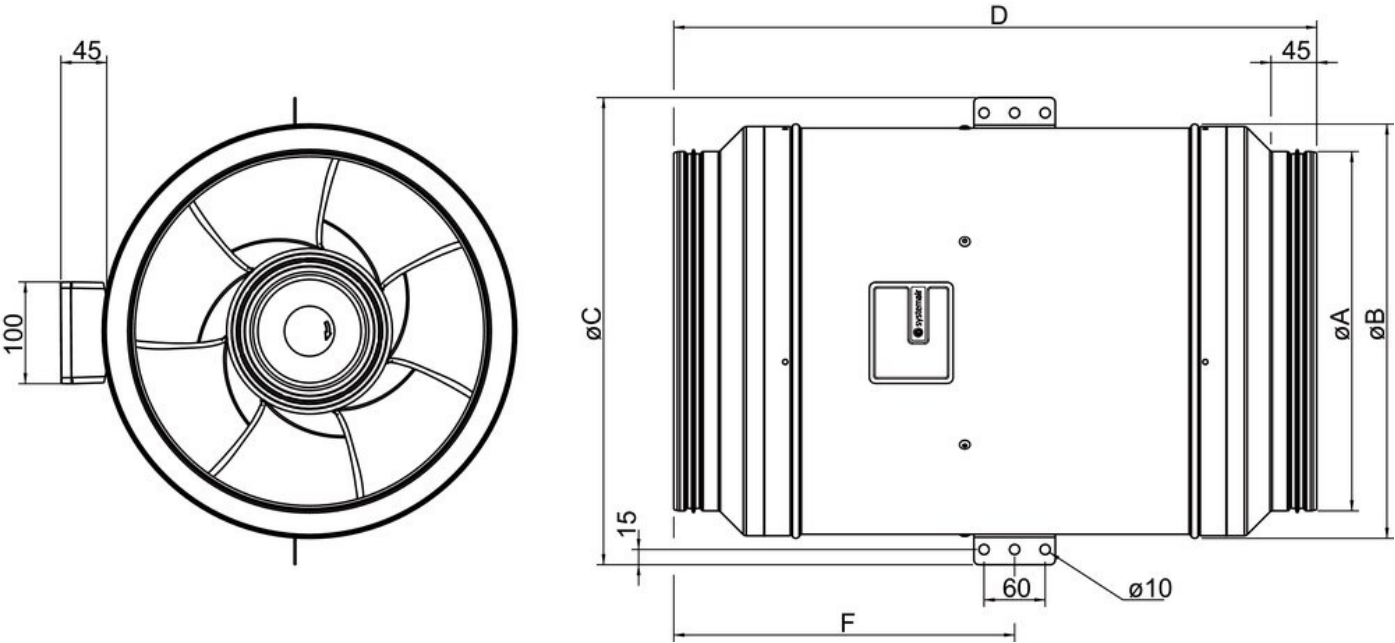
Hydraulic data

Required air flow	1.07 m³/s
Required static pressure	344 Pa
Working air flow	1.07 m³/s
Working static pressure	344 Pa
Air density	1.204 kg/m³
Power	678.7 W
Fan control - RPM	1920 rpm
Current	2.97 A
SFP	0.634 kW/m³/s
Control voltage	10.0 V
Supply voltage	230 V

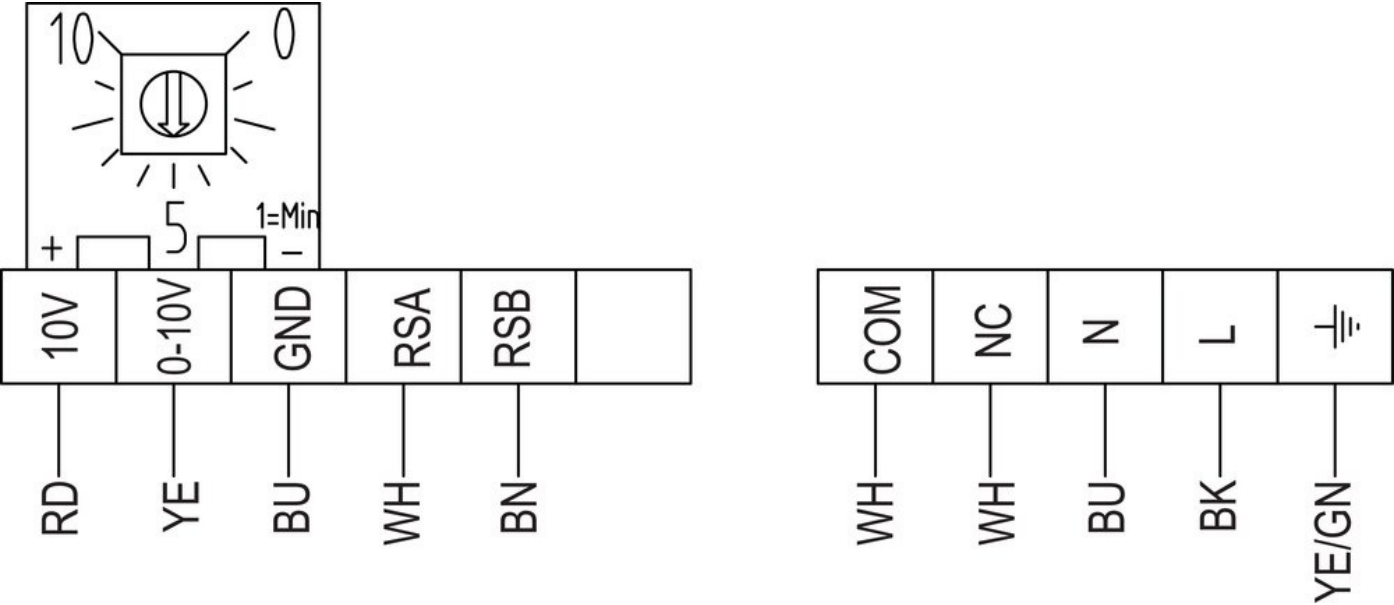
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	51	69	77	77	79	76	69	60	84
Outlet	dB(A)	56	73	80	80	82	77	70	60	86
Surrounding	dB(A)	<10	41	59	63	61	57	54	33	67
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	60
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	46

Dimension

	øA	øB	øC	D	F
prio 315 AC	313	407	459	676	357
prio 355 AC/EC	353	407	459	632	335



Wiring



RD	Red
YE	Yellow
BU	Blue
WH	White
GN	Green
BN	Brown
BK	Black

Ecodesign

Product		
Trade name	Systemair	
Product name	prio 355 EC	
Ecodesign 327		
Manufacturer	Systemair Sweden AB, Industrivägen 3, Skinnskatteberg, Sweden	
Type	prio 355 EC	
Year of manufacture	See name plate of the fan	
Air flow qv	1.071	m³/s
Efficiency category	total	
Efficiency grade N	75.3	
Efficiency grade target N	58	
Speed (rpm) n	1,920	r.p.m.
Pressure increase total psf	414	Pa
Power consumption Ped	679	W
Overall efficiency	68	%
Overall efficiency target	50.6	%
Variable speed drive	Yes	
Additional components	Components used to calculate the energy efficiency that are not apparent from the measurement category are detailed in the CE declaration.	
Maintenance	Information on installation, operation and maintenance is provided in the operating instructions.	
Recycling / disposal	Information on recycling and disposal is provided in the operating instructions.	

Accessories

- CXE/AVC Modbus (37256)
- EC-Basic-CO2 and temperature (24808)
- EC-Basic-T temperature (24805)
- EC-Selector (9908)
- EC-Vent Room Unit (3018)
- MTP 10, 10K, Speed control (32731)
- MTV-1/010 Controller 0..10V+ (30650)
- S-5EC/FRQ (76738)
- CO2RT-R-D Transmitter (6993)
- Presence detector/IR24-P (6995)
- CB 355-12,0 400V/3 Duct heater (5390)
- CB 355-9,0 400V/3 Duct heater (5389)
- CBMF 355-9,0 400V/3 Duct heater (12443)
- FK 355 Fast clamp (1614)
- RSK-355 Back draft dmp. (9972)
- DMD-C Pressure controller (15793)
- EC-Basic-H humidity (24807)
- EC-Basic-U universal 0-10V (24806)
- EC-Vent control board (3115)
- FFR 355 Filter cassette (1782)
- MTP 20, on/off, 3-step (310220)
- PCA 1000D2 Pressure controller (76739)
- SG 355 Protection guard (5612)
- HR1 Room Humidistat (215150)
- RT 0-30 Room Thermostat (5151)
- CB 355-6,0 400V/2 Duct heater (5388)
- CBM 355-9,0 400V/3 Duct heater (5486)
- FGR 355 Filter cassette (1821)
- LDC 355-900 Silencer (5399)
- VK-35 Louvre shutter (5642)

Documents

- MODBUS LITE V5.01 parameter specification.pdf
- PRIO_OPERATING_MAINTENANCE_145903_CE_A003_EN.PDF