

PRIOAIR 10 INLINE DUCT FAN

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Description

Application

The prioAir series is designed for installation in ducts. Extremely efficient, prioAir fans are perfect for a wide assortment of powerful, quiet air-moving applications.

Design

Compact size, low noise, very high efficiency and air tight casing. Aerodynamically optimized impellers and guide vanes with integrated external rotor motors. Includes a mounting bracket. Special composite material is corrosion-proof and light weight.

Speed control

The prioAir AC fan models may be controlled via a solid state speed controller.

Motor protection

Thermal overload protection with automatic reset.

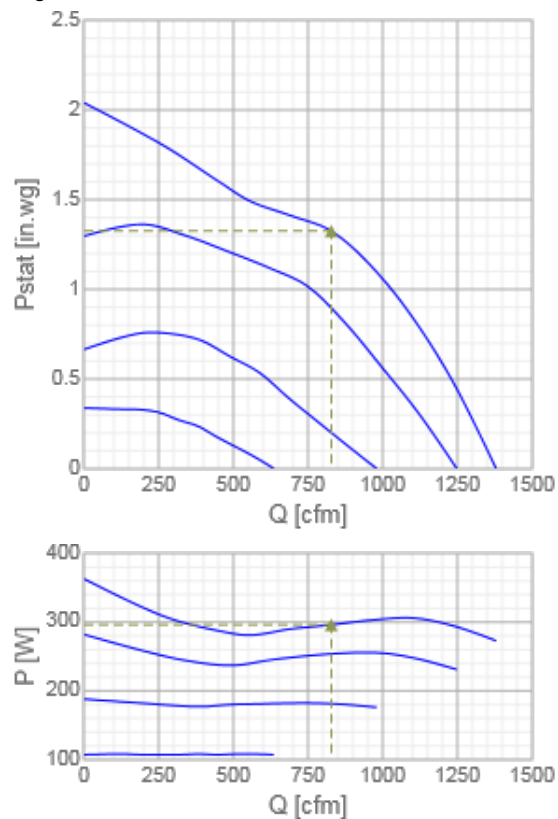


Technical parameters

Nominal data		
Voltage	115	V
Frequency	60	Hz
Phase	1	~
Input power (P1)	308	W
Current	2.59	A
Max. airflow	1379	cfm
Fan impeller speed	2976	r.p.m.
Weight	13.7	lbs.
Protection / Classification		
Insulation class	F	
Enclosure class, motor	IP44	IP
Others		
Certificate	cULus, AMCA Sound, AMCA Air	
Temperature data		
Max. temperature of transported air	131	°F

Performance

Diagrams



Hydraulic data

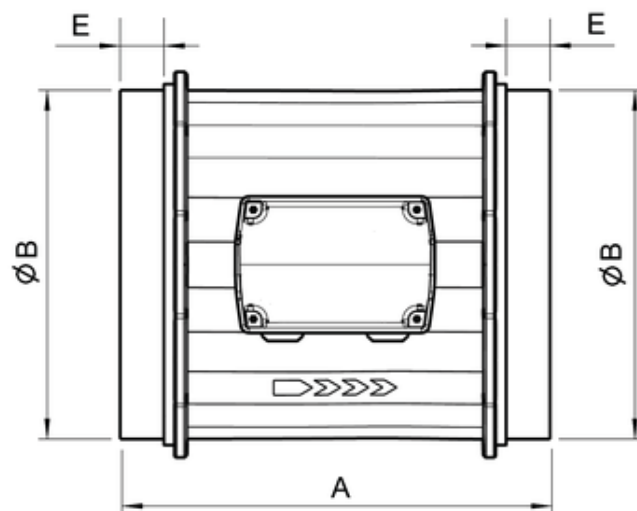
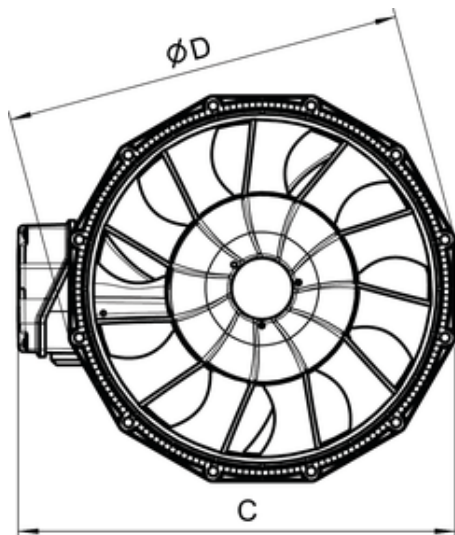
	Working point						
	Q [cfm]	Ps [in.wg]	P [W]	n [r.p.m.]	I [A]	SFP [W/(cfm)]	U [V]
Max efficiency	828	1.33	296	3023	2.51	0.358	120

Acoustic data

Sound power level		63	125	250	500	1k	2k	4k	8k	Tot
Inlet	dB(A)	58	65	65	66	76	72	65	56	78
Outlet	dB(A)	67	80	80	82	81	77	68	59	87
Surrounding	dB(A)	36	46	50	62	67	63	51	37	70

Loudness

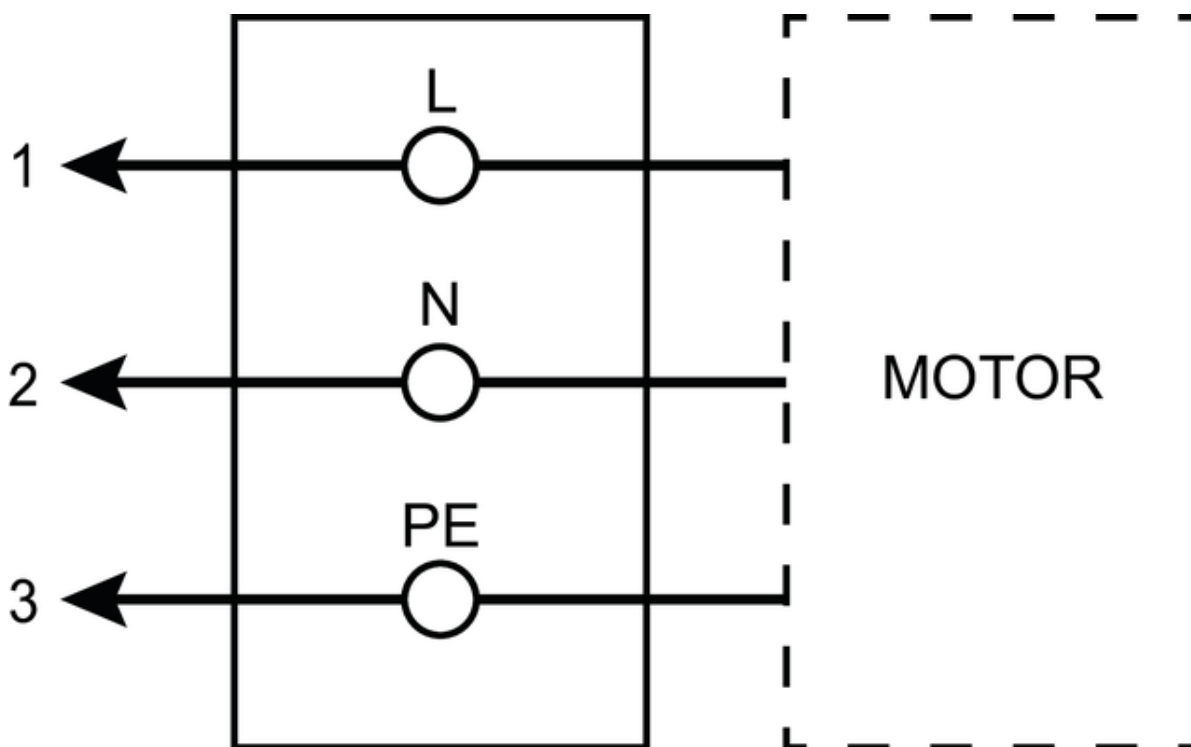
Dimensions



	A	B	C	D	E
prioAir 8/ 8EC	9 11/16 (246)	7 7/8 (200)	9 3/4 (248)	9 (229)	1 (25)
prioAir 10/ 10EC	11 11/16 (297)	9 13/16 (249)	11 15/16 (303)	11 1/16 (281)	1 3/16 (30)

All dimension in inches (mm).

Wiring



Motor Wire Color	Terminal Marking	Field Marking (to be completed by installer) Function
Blue	L	Power supply 120VAC, 50/60 Hz
Black	N	Neutral conductor
Green/Yellow	PE	Protective conductor

Accessories

Accessories

- LD 10 Silencer (411286)
- FC 10 Mounting Clamps (411122)
- IR 10 Iris Damper (411238)
- RSK 10 Backdraft Damper (411116)

Documentation

484065 prioAir OIPM.pdf (1,50MB)

