



Low to moderate airflow resin fans for various applications

- 100% Leak-Free Housing
- Up to 7.0 cfm/W of Efficacy
- Quiet Operation
- Comes with Mounting Bracket

[Find more details in our online catalogue](#)

Technical parameters

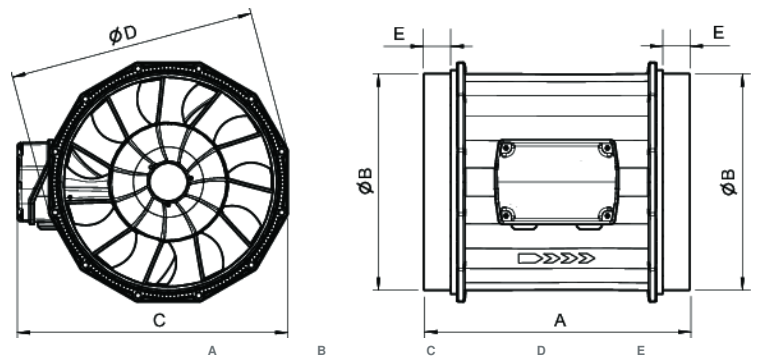
Nominal data		
Voltage (nominal)	120	V
Frequency	60	Hz
Phases	1~	
Input power	125	W
Input current	1.8	A
Impeller speed	3,619	rpm
Air flow	max 790	cfm
Temperature of transported air	max 131	°F
Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	
Dimensions and weights		
Duct dimension; Circular, inlet	8	in.
Duct dimension; Circular, inlet	8	in.
Duct dimension; Circular, outlet	8	in.
Weight	7.5	lb
Optional		
Duct connection type	Circular	
Color name, casing	Black	
Motor type	EC	
Material	Plastic	

Performances

CFM Table

Model	0.0" Ps	0.2" Ps					
prioAIR® 6 EC	443	418	387	352	313	261	-
prioAIR® 8 EC	791	745	702	656	604	534	185
prioAIR® 10 EC	1237	1156	1079	997	900	769	118

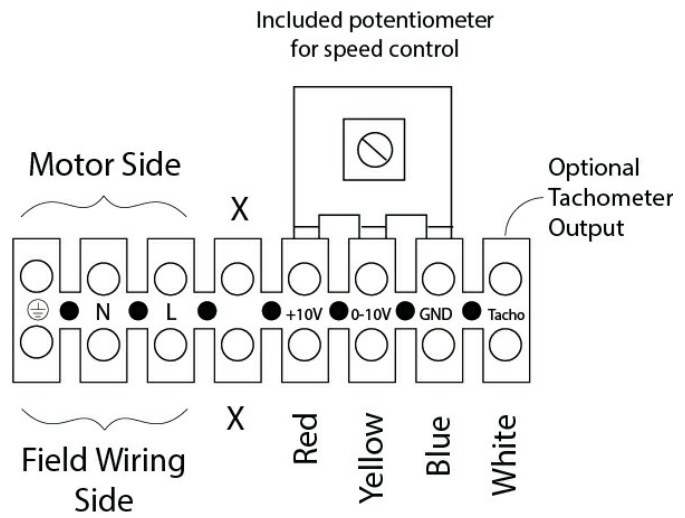
Dimensions



prioAIR® 8 / 8 EC	9 11/16 (246)	7 7/8 (200)	9 3/4 (248)	9 (229)	1 (25)
prioAIR® 10 / 10 EC	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



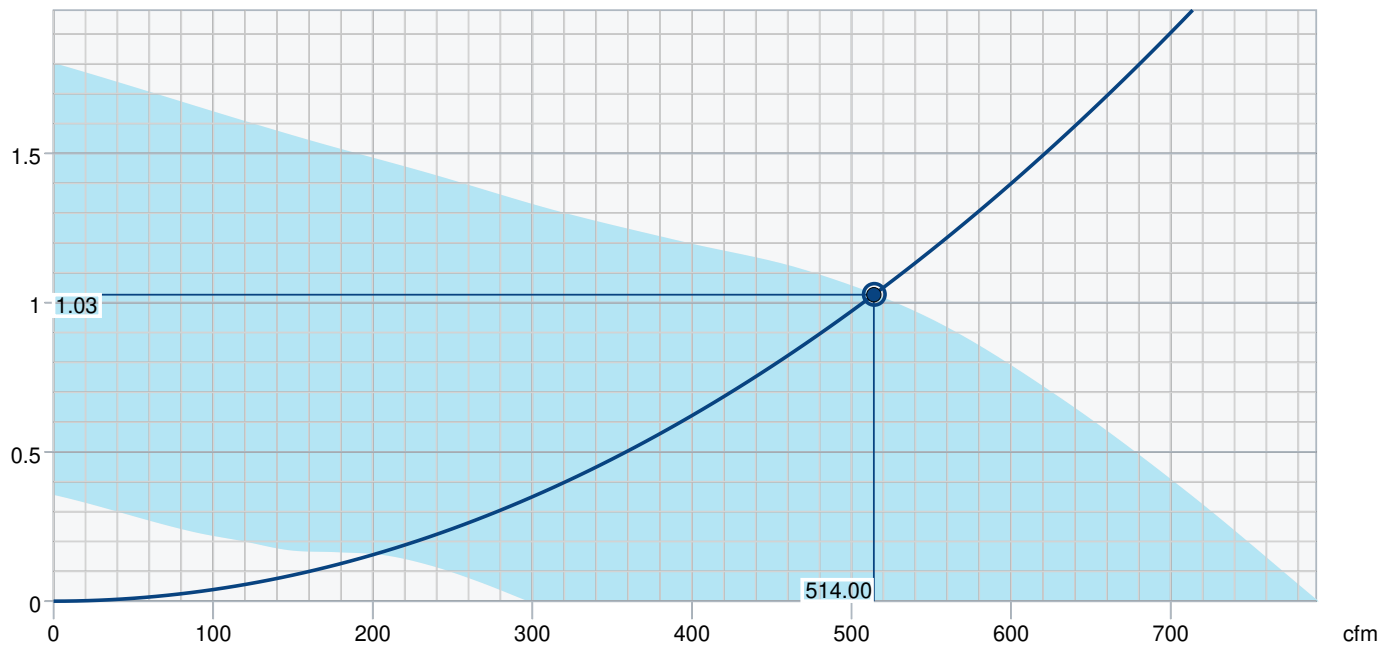
(Motor Side)

Factory Motor Wiring(For reference only)	Terminal Marking	Field marking (to be completed by installer)
Color		Function
Brown	L	Power supply 120VAC, 50/60Hz
Blue	N	Neutral Conductor
Green/Yellow	PE	Protective Conductor
Red	+10V	Voltage Output 10V/1.1 mA, Electrically Isolated
Yellow	10V / PWM	Controller Input 0..10V or PWM, Electrically Isolated
Blue	GND	GND- Connection to the Controller Interface
White	Tacho	Speed Output: Open Controller, 1 Impulse per revolution, Electrically Isolated Isink_max=10mA

Control Option Wiring Diagrams can be found under the DOCUMENTS tab.

Performance curve

in. wg.



Hydraulic data										
Required air flow										514 cfm
Required static pressure										1.03 in. wg.
Working air flow										514 cfm
Working static pressure										1.03 in. wg.
Air density										0.075 lb/ft³
Power										124 W
Fan control - RPM										3,532 rpm
Current										1.61 A
Airflow efficiency										4.1 cfm/W
Control voltage										10.0 V
Supply voltage										120 V
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	47	60	68	71	70	69	63	55	76
Outlet	dB(A)	53	62	64	72	71	69	63	56	76

Accessories

FML 8 Metal Hood Supply Air (45148)	RSK 8 Backdraft Damper (411115)
ADC 8 Shut-off Damper w Motor (44690)	FC 8 Mounting Clamps (2 pcs) (411121)
FGR 8HV Filter Cassette (98004)	IR 8 Iris Damper (411237)
LD 8 Silencer (411125)	EC-10V Speed control (498148)

Documents

E1474 prioAIR® EN
484065 prioAIR® IOM
prioAIR® EC CSI Specification
Control Option for prioAIR® 6-10 EC