

# POWERFOIL D

We've raised the bar on direct-drive technology with our quietest, most efficient industrial fan ever. The groundbreaking Powerfoil D delivers airflow that radically changes the way people feel and work within your space. Rated IP66 for maximum protection in demanding environments, it takes on hot, gritty conditions with ease and has the specs to excel in any facility where comfort and quiet are valued.



## KEY FEATURES

- ▶ **Six aluminum airfoils** with winglets and safety restraints
- ▶ **Built-in accelerometer**, safety cables, and Grade 8 hardware
- ▶ **Building automation integration** with 0–10 VDC, Modbus, and BACnet capability
- ▶ **Permanent-magnet motor** and VFD reduce noise, EMI, and energy usage
- ▶ **IP66-rated protection** against dust, water, and vapors for indoor or outdoor use
- ▶ **Available LED** offers ultra-bright, fully dimmable lighting

### DIAMETER

8–24 FEET  
(2.4–7.3 METERS)

### MOTOR

NEODYMIUM MAGNET  
DIRECT-DRIVE

### MOUNTING

I-BEAMS, BAR JOISTS,  
SOLID BEAMS, AND PURLINS

### WARRANTY

UP TO  
**15 YEARS**  
MECHANICAL

UP TO  
**15 YEARS**  
ELECTRICAL

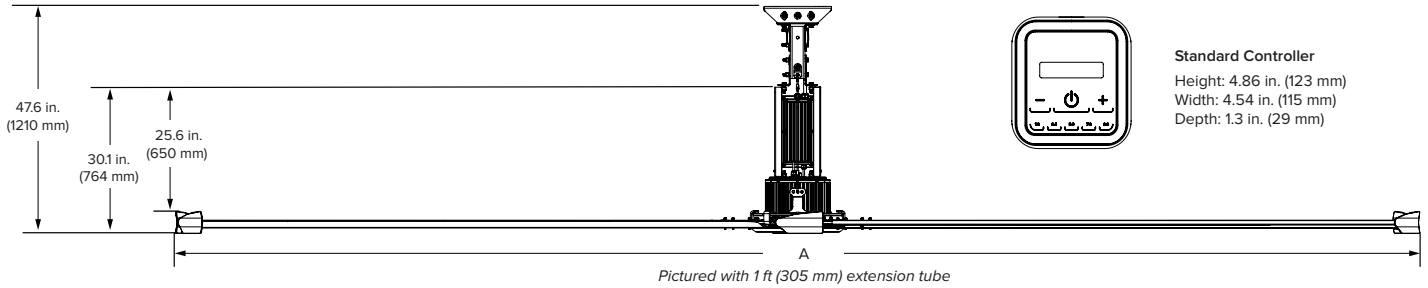
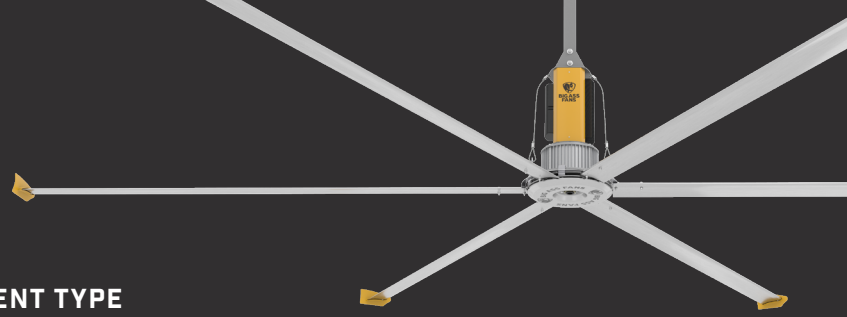


## DISCOVER MORE ABOUT POWERFOIL D

Learn more at [bigassfans.com/powerfoil-d](https://bigassfans.com/powerfoil-d)  
or call **877.BIG.FANS** for a free custom quote.

# POWERFOIL<sup>®</sup> D

THE INDUSTRIAL FAN THAT'S THE STRONG, SILENT TYPE



**Standard Controller**  
 Height: 4.86 in. (123 mm)  
 Width: 4.54 in. (115 mm)  
 Depth: 1.3 in. (29 mm)

## Technical Specifications

Diameter (A)	Weight <sup>1</sup>	Max Speed	Input Power and Required Breaker	Airfoil Clearances <sup>2</sup>	Max Operating Temperature
8 ft (2.4 m)	212 lb (96 kg)	200 RPM	200–277 VAC, 50/60 Hz, 1 Φ, 10 A 200–277 VAC, 50/60 Hz, 3 Φ, 10 A 380–480 VAC, 50/60 Hz, 3 Φ, 10 A	2 ft (0.6 m) on sides 4 ft (1.2 m) below ceiling	131°F (55°C)
10 ft (3 m)	220 lb (100 kg)	145 RPM			
12 ft (3.6 m)	227 lb (103 kg)	145 RPM	200–277 VAC, 50/60 Hz, 1 Φ, 10 A 200–277 VAC, 50/60 Hz, 3 Φ, 10 A 380–480 VAC, 50/60 Hz, 3 Φ, 10 A	2 ft (0.6 m) on sides 5 ft (1.5 m) below ceiling	
14 ft (4.3 m)	235 lb (107 kg)	120 RPM			
16 ft (4.9 m)	242 lb (110 kg)	108 RPM	200–277 VAC, 50/60 Hz, 1 Φ, 15 A 200–277 VAC, 50/60 Hz, 3 Φ, 15 A 380–480 VAC, 50/60 Hz, 3 Φ, 10 A	2 ft (0.6 m) on sides 6 ft (1.8 m) below ceiling	
18 ft (5.5 m)	273 lb (124 kg)	94 RPM			
20 ft (6.1 m)	280 lb (127 kg)	84 RPM	200–277 VAC, 50/60 Hz, 1 Φ, 15 A 200–277 VAC, 50/60 Hz, 3 Φ, 15 A 380–480 VAC, 50/60 Hz, 3 Φ, 10 A	2 ft (0.6 m) on sides 7 ft (2.1 m) below ceiling	
24 ft (7.3 m)	295 lb (134 kg)	64 RPM			

## Construction Features

Airfoils	Motor and Drive	Certifications	Mounting	Multi-Point Safety <sup>3</sup>	Colors
Six patented Powerfoil airfoils (mill finish) Powerfoil winglets eliminate wind noise (BAF yellow)	Neodymium magnet motor provides virtually silent operation and optimum efficiency Rated IP66	 UL Standard 507 and CSA Standard 22.2 No. 113 	Standard upper mount installs to I-beams and bar joists Optional kits allow for mounting to solid beams and purlins	Double safety cable system, airfoil retainers, hub safety clips, Grade 8 hardware, fire relay, guy wires, and airfoil restraint system	Standard colors are silver and yellow. Individualize your fan with one of our classic color upgrades, or work with our design consultants to create a shade that's all your own.

## Controls

Standard Controller	Integrations	BAFCon Upgrade <sup>4</sup>
Made from durable UV-resistant materials Rated IP55 Intuitive touchscreen interface On/Off and variable speed control Password protection Powered by fan drive	Building automation systems (Modbus-RTU protocol) 0–10 V control Fire suppression systems	Integrated SmartSense technology automatically adjusts fan speed based on seasonal conditions 24-bit color LCD display with resistive touchscreen protected in sleek metal and ABS housing Powered by fan drive

## Standard Controller



Lead times may vary.  
See full warranty for coverage information.

<sup>1</sup> Weight does not include mount or extension tube.  
<sup>2</sup> Measure the distance from the tip of the winglet to the ceiling or major obstruction.  
<sup>3</sup> Airfoil restraint system comes standard on 20–24 ft (6–7.3 m) fans and is an option for smaller diameter fans. The fire relay must be wired during install if required by local code. Guy wires are included with fans that have extension tubes 4 ft (1.2 m) or longer.  
<sup>4</sup> Optional upgrade available; ships separately.



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