



# POWERFOIL® D

Purpose-built for demanding spaces, Powerfoil D delivers quiet, efficient, and enduring performance with unmatched direct-drive technology.



## INDUSTRIAL POWER FOR ANY BIG SPACE

Heat and humidity can sour the most productive environments, while nonstop mechanical noise and maintenance can upset a dynamic atmosphere. Behold, the solution: Powerfoil D, the first and only direct-drive overhead fan designed to tackle heat on a massive scale without sacrificing efficiency, disrupting activity below, or breaking down under tough conditions.

## POWERFOIL D IS PERFECT FOR:

- ✓ Areas with tall ceilings and high ductwork
- ✓ Public and retail spaces
- ✓ Hangars, warehouses, and service bays
- ✓ Gyms, cafeterias, and libraries
- ✓ Recreational and open-air venues
- ✓ Agricultural facilities

## ENGINEERED TO LEAD THE WAY

Big Ass Fans was the front-runner for direct-drive technology nearly 10 years ago; now we're leading the industry in innovation with Powerfoil D. With a virtually silent drive and motor engineered entirely by Big Ass Fans, Powerfoil D is purpose-built to provide enduring power and graceful performance to large spaces in need of comfort without buckling under pressure.

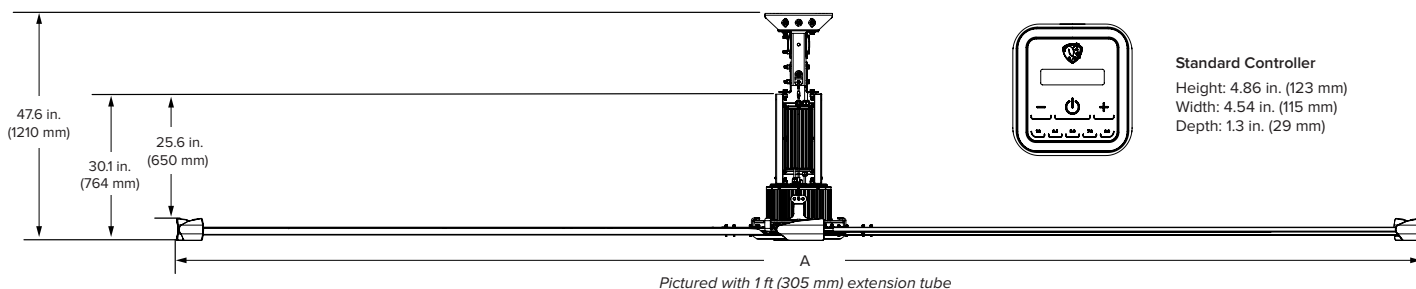
### Key Features

- ✓ Diameter options from 8 to 24 feet (2.4 to 7.3 m)
- ✓ Patented airfoil system engineered for durability and max airflow
- ✓ Suitable for both indoor and outdoor use with entire fan IP66-rated
- ✓ Easy integration into building automation (0–10 VDC, Modbus standard; BACnet adapter optional)
- ✓ Static tube for optional LED kit, occupancy sensor, or other attachments (coming soon!)
- ✓ Eight redundant safety features and built-in accelerometer ensure secure operation
- ✓ Standard variable-speed digital controller; BAFCon™ LED resistive touchscreen optional
- ✓ 10-year mechanical, 5-year electrical; 10-year electrical with optional extended warranty



# POWERFOIL® D

THE INDUSTRIAL FAN THAT'S THE STRONG, SILENT TYPE



## 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	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	
12 ft (3.6 m)	227 lb (103 kg)	145 RPM		2 ft (0.6 m) on sides 6 ft (1.8 m) below ceiling	
14 ft (4.3 m)	235 lb (107 kg)	120 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	
16 ft (4.9 m)	242 lb (110 kg)	108 RPM		2 ft (0.6 m) on sides 7 ft (2.1 m) below ceiling	
18 ft (5.5 m)	273 lb (124 kg)	94 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	
20 ft (6.1 m)	280 lb (127 kg)	84 RPM		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	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	

## 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 (safety yellow)	Neodymium magnet motor provides virtually silent operation and optimum efficiency Rated IP66	UL Standard 507 and CSA Standard 22.2 No. 113 Intertek CE	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.



USA  
BIGASSFANS.COM  
877-244-3267

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