

# POWERFOIL X4

What do you do after making the best industrial fan in the world? You make it better. Driven by this spirit of innovation, Powerfoil X4 has the industry-leading airflow, safety, and performance needed to transform harsh industrial environments into comfortable conditions. Featuring a high-efficiency motor, full-fan IP56 rating, and multiple redundant safety features, Powerfoil X4 is engineered to improve indoor air quality and occupant comfort far longer than the competition.



## KEY FEATURES

- ▶ **Eight aluminum airfoils** with advanced winglets, safety restraints, and AirFence® system
- ▶ **NitroSeal™ gearbox** hermetically sealed for durability and longevity
- ▶ **Best-in-class safety features** including aircraft-grade steel safety cables and patented dual-axis mounting system
- ▶ **Largest diameter and airflow coverage area** of any fan on the market
- ▶ **Standard IP56 rating for the entire fan** makes it perfect for harsh environments
- ▶ **Available upgrades** include control systems, Plus winglets, occupancy sensor, LED kit, and more

### DIAMETER

**12-30\* FEET**  
(3.7-9.1 METERS)

### MOTOR

**NITROSEAL  
DRIVE SYSTEM**

### MOUNTING

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

### WARRANTY

UP TO  
**15 YEARS**  
MECHANICAL

UP TO  
**15 YEARS**  
ELECTRICAL

\*The 30' diameter option is NOT available for any buildings with an existing sprinkler system (including an ESFR system) or where such a system may be installed, in accordance with applicable NFPA standards.



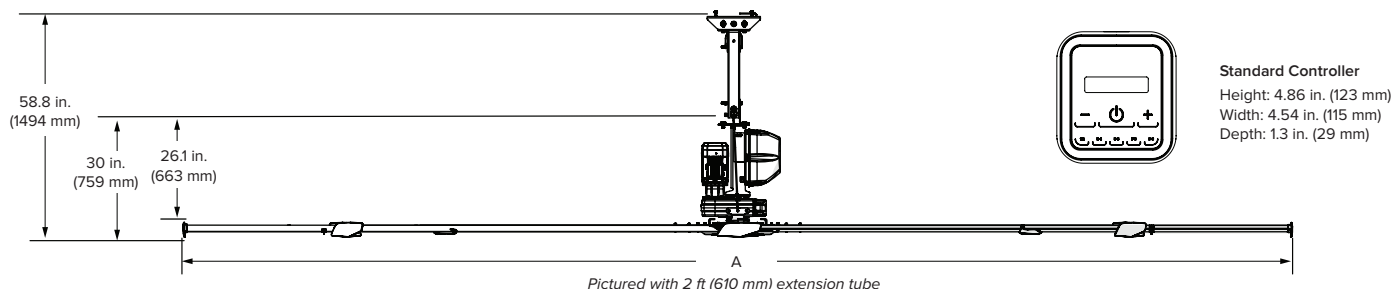
**BIG ASS FANS®**

## DISCOVER MORE ABOUT POWERFOIL X4

Learn more at [bigassfans.com/powerfoil-x4](https://bigassfans.com/powerfoil-x4)  
or call **877.BIG.FANS** for a free custom quote.

# POWERFOIL® X4

BIGGER. STRONGER. TOUGHER. THE NEXT LEVEL OF INNOVATION IS HERE.



## Technical Specifications

Diameter (A) <sup>1</sup>	Fan Model <sup>1</sup>	Max Weight <sup>2</sup>	Max Speed	Input Power and Required Breaker	Motor Horsepower	Airfoil Clearances <sup>3</sup>	Max Operating Temperature
12 ft (3.6 m)	PFX4-12 (Standard)	245 lb (111 kg)	130 RPM	200–240 VAC, 50/60 Hz, 1 Φ, 20 A 200–240 VAC, 50/60 Hz, 3 Φ, 15 A 400–480 VAC, 50/60 Hz, 3 Φ, 10 A 575–600 VAC, 50/60 Hz, 3 Φ, 10 A	1.9 hp (1.4 kW)	2 ft (0.6 m) on sides 5 ft (1.5 m) below ceiling	122°F (50°C)
	PPX4-12 (Plus)		131 RPM				
14 ft (4.3 m)	PFX4-14 (Standard)	116 RPM					
	PPX4-14 (Plus)	117 RPM					
16 ft (4.9 m)	PFX4-16 (Standard)	264 lb (120 kg)	96 RPM		2.5 hp (1.85 kW)	2 ft (0.6 m) on sides 6 ft (1.8 m) below ceiling	
	PPX4-16 (Plus)		97 RPM				
18 ft (5.5 m)	PFX4-18 (Standard)	90 RPM					
	PPX4-18 (Plus)	91 RPM					
20 ft (6.1 m)	PFX4-20 (Standard)	290 lb (132 kg)	76 RPM			2 ft (0.6 m) on sides 7 ft (2.1 m) below ceiling	
	PPX4-20 (Plus)		76 RPM				
24 ft (7.3 m)	PFX4-24 (Standard)	347 lb (157 kg)	62 RPM				
	PPX4-24 (Plus)		62 RPM				
30 ft (9.1 m)	PFX4-30 (Standard)	374 lb (179 kg)	46 RPM				

## Construction Features

Airfoils	Motor and Gearbox	Onboard VFD and Functional Platform	Mounting	Multi-Point Safety <sup>4</sup>	Colors
Eight custom-engineered airfoils (mill finish) with winglets (BAF Yellow) for optimum airflow Plus winglet upgrade available (PPX)	Rated IP56 Fully sealed NitroSeal™ Drive gearbox (STÖBER) reduces heat buildup and resists corrosion for extended life	Housed in spacious ABS/PVC-based enclosure with built-in heatsink Functional platform integrates lights, security cameras, speakers, or other devices	Standard upper mount installs to I-beams and bar joists Extension tubes available in 2, 5, or 10 ft (0.6, 1.5, or 3 m) lengths 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 create a shade that's all your own

## Controls

Standard Controller	Integrations	BAFCon Upgrade <sup>5</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 or BACnet adapter) 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



## Powerfoil Winglet



## Powerfoil Plus Winglet



<sup>1</sup> The 30 ft (9.1 m) diameter is NOT available for buildings with an existing sprinkler system (including an ESFR system) or where such a system may be installed, in accordance with applicable NFPA standards. Do NOT install a 30 ft (9.1 m) fan outdoors or in a location where it will be subjected to wind gusts. Powerfoil Plus models are noted with a PPX model number.

<sup>2</sup> Weight does not include mount or extension tube.

<sup>3</sup> Measure the distance from the tip of the winglet to the ceiling or major obstruction.

<sup>4</sup> Airfoil restraint system comes standard on 20–30 ft (6–9.1 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>5</sup> Optional upgrade available; ships separately.



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



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