

TOTAL FAN VALUE

An overview of a fan's full scope of features and user benefits.

POWERFOIL® 8



Powerfoil 8 is the ideal choice for facilities that need the air power of Big Ass Fans' flagship line of HVLS fans without optional accessories like an LED kit and occupancy sensor. Offering a multi-patented airfoil system, industrial-grade motor, oversized hub system, and on-board VFD, Powerfoil 8 is built for powerful cooling performance that creates uniform conditions over a wide coverage area. Extruded aluminum construction and an extensive system of redundant safety features ensure durable operation that stands up to the demands of tough industrial facilities, proving that Powerfoil 8 is up to the task of delivering comfort to any space.

		Points
 Performance	Airflow and efficiency metrics quantify how the fan will impact comfort and energy costs in the space.	24 / ₂₅
 Quality	The fan's materials and manufacturing process determine its durability and longevity.	24 / ₂₅
 Safety	Strong redundant safety features and verified product testing are essential for secure, consistent operation.	25 / ₂₅
 Customer Experience	Product specification, customization, and customer support make or break the ownership experience.	24 / ₂₅
 Total Fan Value	Use this score to compare models and make sure the fan meets the requirements for the space.	97 / ₁₀₀

POWERFOIL 8

PERFORMANCE

Airflow Performance

5/5



Powerfoil 8's purpose-built motor and patented airfoil system move up to 245,000 cubic feet of air per minute (116 cubic meters per second). The airfoils' aerodynamic design, cuffed winglets, and AirFences™ reduce wind turbulence and noise, keeping airflow consistent throughout the coverage area.

Airflow Coverage Area

4/5



A single 24-foot (7.3-meter) Powerfoil 8 can effectively deliver air speeds of at least 85 feet per minute (0.43 meters per second) to occupant levels over an area of more than 28,500 square feet (2,650 square meters). The fan's range of diameters and variety of mounting options, combined with Big Ass Fans' proprietary application design tools and expertise, ensure ideal airflow coverage for virtually any space.

Annual Energy Use

5/5



Powerfoil 8's 0.75-1.5 kilowatt motor efficiently delivers cooling airflow over a wide area, lowering the need for A/C. In winter, the fan equalizes temperatures from floor to ceiling, making heaters more efficient. This improvement in efficiency can reduce HVAC costs by up to 30%, which more than offsets the fan's modest estimated annual operational cost of US\$307—about \$0.84 per day.

Controls

5/5



Powerfoil 8's standard digital touchscreen controller allows users to turn fans on and off and adjust speed from an easy-to-use interface. Rated IP55 for the toughest environments and easy to install, the controller features durable housing, a wall bracket, and a single RJ45 port.

Sound Level

5/5



Powerfoil 8 measures quieter than most ambient processes in industrial applications, which typically measure 40-60 dBA. When run at low speeds for destratification, the fan's operational sound is imperceptible at occupant level.



PERFORMANCE

24/25

POWERFOIL 8

QUALITY

Durability

5/5



Like all Big Ass industrial overhead fans, Powerfoil 8 features airfoil and hub systems made from extruded aluminum, which offers greater flexibility and protection from impacts than cast aluminum. Its heat-resistant construction and wide range of protection for voltage sag/swell make the fan an excellent choice for industrial facilities that lack A/C and experience fluctuations in power quality.

Warranty

4/5



Powerfoil 8 features a non-prorated 7-year mechanical and 3-year electrical warranty. Big Ass Fans' warranties are noteworthy for their straightforward terms, avoiding abundant fine print and exclusions and adding to customer confidence.

Performance Certifications

5/5



Powerfoil 8 has undergone extensive third-party testing by the U.S. Department of Energy to guarantee accurate performance claims and adhere to industry regulations and standards.

Required Maintenance

5/5



Powerfoil 8 features a vented motor with double lip seals, helical gears, and ball bearings that reduce friction and protect against dust, grit, and water for smooth, long-lasting performance. As with all our overhead fans, Big Ass Fans offers a preventive maintenance program to ensure your Powerfoil 8 maintains peak performance and efficiency.

Motor and Drive Protection

5/5



Powerfoil 8 is rated IP56, making it thoroughly protected from dust and particles and fully safeguarded against vapors and sprays of water, and its digital touchscreen controller is rated an industry-leading IP55.



QUALITY

24/25

POWERFOIL 8

SAFETY

Static Safety Features

Powerfoil 8 includes a mounting system with dual galvanized steel aircraft cables designed to support the full weight of the fan, an extruded aluminum spar hub system, and Grade 8 hardware to secure components. Every weld has redundant means of safety, so no single weld is critical to the fan's security.

5/5



Dynamic Safety Features

Powerfoil 8 ensures maximum operational safety with dynamic features that keep all fan parts secured to the assembly in the event of an impact. Each airfoil sports interlocking retainers and a full-length airfoil restraint system, while the 19-inch (483-millimeter) spar hub system features two flexible plates with an aluminum spacer, 1/4-inch (6.35-millimeter) steel retainers, and pin and collar rivet fasteners to more evenly distribute force load and reduce fatigue at attachment points. As with all Big Ass overhead fans, Powerfoil 8 integrates with fire suppression systems.

5/5



Safety Certifications

Powerfoil 8's safety is proven through rigorous testing. The fan holds an international CB Test Certificate for passing CB Scheme safety certification and is ETL-listed to UL507 and CSA Standard 22.2 No. 113. At Big Ass Fans' research lab, the fan has undergone successful impact testing, mount tensile testing to 28,000 pounds-force (12,700 kilograms-force), and stress testing of hub and airfoil systems, the results of which far surpass competitor testing in scope and performance.

5/5



Facility Integration

Like other Big Ass overhead fans, Powerfoil 8 integrates with most third-party building automation systems, offering fan control, grouping, and fire relay integration using Modbus-RTU protocol, 0-10 VDC, and optional BACnet capability.

5/5



Patented and Proprietary Features

Featuring 23 patents for its airfoil and safety systems as well as patents pending for its mount and hub systems, Powerfoil 8 holds an impressive track record of airflow innovation. The fan's purpose-built design demonstrates Big Ass Fans' commitment to engineering safe, effective products that provide comfort and cost savings.

5/5



SAFETY

25 / 25

POWERFOIL 8

CUSTOMER EXPERIENCE

Product Specification

Using proprietary airflow data from our research lab, Big Ass Fans' SpecLab® software plots fans in a 3D model of customers' facilities and simulates the airflow they provide. This unique tool ensures that customers receive an accurate specification for the Big Ass fans best suited for their space.

5/5



Ease of Installation

With a versatile mount and on-board VFD that's pre-wired for quick, hassle-free installation, Powerfoil 8 excels in virtually any application. Big Ass Fans offers the industry's most reliable and extensive team of factory-certified installers as well as support for customer-performed installation.

5/5



Customer Support

Big Ass Fans' customer support team is composed of experienced problem solvers who complete ongoing training with product managers and applications engineers. Big Ass Fans' Net Promoter Score—a measure of customer satisfaction—consistently ranks as the highest in the HVLS industry.

5/5



Customization

With diameters from 8 to 24 feet (2.4 to 7.3 meters), mounting options for different ceiling structures, and multi-phase VAC options, Powerfoil 8 is adaptable for use in a wide variety of facilities. For customers looking to improve or maintain their space's visual aesthetic, Big Ass Fans offers full- and partial-fan color customization.

5/5



Optional Accessories

Powerfoil 8 offers optional performance and control features such as Plus Hybrid airfoils that optimize the fan ownership experience.

4/5



CUSTOMER
EXPERIENCE

24
/25