

AirVolution^D 550



Medium to Large Spaces

For medium to large spaces, the AirVolution-D 550 fan is extremely effective at controlling temperature and humidity. Ideal locations include auto shops, gyms and agricultural applications. The system design eliminates the gearbox for a lighter, leak-proof fan that is durable and runs with less friction. This design makes it easy to install, maintenance-free and practically inaudible. The full line is also Wash Down rated for indoor or outdoor use.

Key Specs

- Airfoil sizes 8 to 18 ft. integrate into any medium to large space
- Airfoils also available in black and other customizable colors
- 70% lighter for easy installation, less wear and tear*
- On-board AirBrain adapts to input voltages, optimizes motor control
- No gearbox means quiet operation and no maintenance
- Integrates into HVAC and other automated building systems via gateway
- Wash Down Duty rated for indoor/outdoor use (IP65)
- Backed by a 50,000-hour-warranty

*Compared to the leading competitor's similar model

Touchscreen Remote



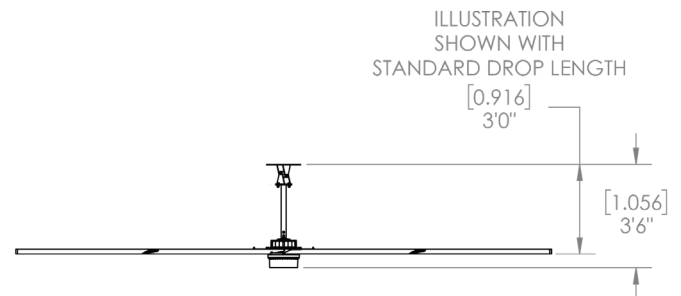
- 20 speed settings
- Forward and reverse
- Integrated warranty hour counter

Warranty

Standard 50,000-hour non-prorated warranty on parts and components plus a 3-year warranty on labor

Mounting Dimensions

Illustration shown with standard extension



Basic Specifications

Airfoil Diameter	8ft	10ft	12ft	14ft	16ft	18ft
Airfoil Blade	Extruded Anodized Aluminum Airfoils 7.375" Blade Width					
Number of Airfoils	6	6	6	6	6	6

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PERFORMANCE	8 ft	10 ft	12 ft	14 ft	16 ft	18 ft
Max Displacement Forward*	53,000 CFM	84,000 CFM	106,000 CFM	132,000 CFM	158,000 CFM	181,000 CFM
Max Displacement Reverse*	29,000 CFM	49,000 CFM	76,000 CFM	86,000 CFM	114,000 CFM	144,000 CFM
Variable Speed	1 - 220 RPM	1 - 170 RPM	1 - 137 RPM	1 - 110 RPM	1 - 90 RPM	1 - 74 RPM
Max Power Usage	730 W	850 W	920 W	890 W	1070 W	900 W
Recommended Industry Spacing**	60 ft	65 ft	70 ft	80 ft	90 ft	95 ft
Max Affected Area***	4,000 ft ²	6,600 ft ²	8,800 ft ²	11,000 ft ²	13,000 ft ²	15,000 ft ²
Sound Level dBA at 100% Speed ****	61	59	60	56	53	53

WEIGHTS

Hanging Weight	144 lbs	153 lbs	162 lbs	172 lbs	180 lbs	188 lbs
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MOTOR AND DRIVE TRAIN

Motor Type	Gearless Direct Drive
Equivalent Horsepower Rating	1.05 HP
Max Operating Temp	140° F [60° C]

MAX AMP DRAW / RECOMMENDED FUSE

110 VAC 1-Phase	9.0 A / 10	13.9 A / 15	13.9 A / 15	13.9 A / 15	15.2 A / 20	15.2 A / 20
120 VAC 1-Phase	8.3 A / 10	12.7 A / 15	12.7 A / 15	12.7 A / 15	14.0 A / 15	14.0 A / 15
208-240 VAC 1-Phase	4.8 A / 5	7.3 A / 10	7.3 A / 10	7.3 A / 10	8.1 A / 10	8.1 A / 10
277 VAC 1-Phase	3.6 A / 5	5.5 A / 10	5.5 A / 10	5.5 A / 10	6.1 A / 10	6.1 A / 10
208-240 VAC 3-Phase	3.4 A / 5	5.3 A / 10	5.3 A / 10	5.3 A / 10	6.6 A / 10	5.8 A / 10
380 VAC 3-Phase	1.9 A / 5	2.9 A / 5	2.9 A / 5	2.9 A / 5	3.6 A / 5	3.2 A / 5
480 VAC 3-Phase	1.5 A / 5	2.3 A / 5	2.3 A / 5	2.3 A / 5	2.9 A / 5	2.5 A / 5

POWER AND CONTROLS

Power Source High	3-Phase [380-600] VAC +/- 5%, 50/60 Hz
Power Source Low	1-Phase or 3-Phase [120-277] VAC +/- 5%, 50/60 Hz
Control Options	Digital Touchpad Standard, MacroAir Controller 6 and 30, AirLynk – BacNet/LonWorks

INSTALLATION

Mounting Hardware	AVD Universal Mount
Drop Length	In addition to the standard drop length supplied, optional drop lengths are available in 1 inch increments. Guy wires required with Universal Mount; with Rapid Mount Industrial; guy wires are optional.

RATINGS AND COMPLIANCE

Fire and Sprinkler	NFPA Compliant
Wash Down Duty Rating	IP65
Certifications	UL 507, CE

* Calculation based on AMCA 230-99 equation.

** Delivers 2.8 - 4.2 ft/s of average air speed in the occupied space. This relates to perceived cooling or set point change of 4.9-6.1° F. Consult EnergyLogic LLC for more details.

*** Delivers 2.7 - 3.8 ft/s of average air speed in the occupied space. This relates to perceived cooling or set point change of 4.8-5.8° F. Consult EnergyLogic LLC for more details.

**** Sound testing taken with sensor 5 ft above the ground and 20 ft from the center of the fan at 20 ft high.

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