

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
 - 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:



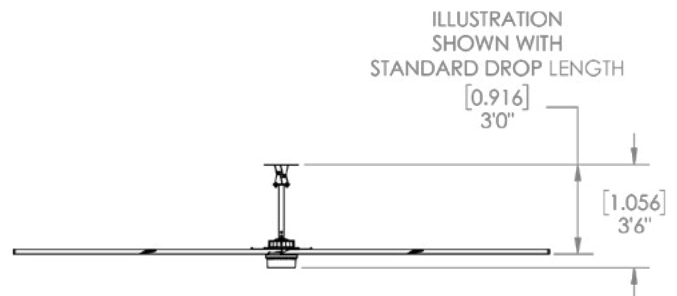
- 20 speed settings
- Forward and reverse
- Integrated warranty hour counter

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 Thrust Forward	18 lbf	29 lbf	32 lbf	37 lbf	39 lbf	41 lbf
Max Displacement Reverse**	29,000 CFM	49,000 CFM	76,000 CFM	86,000 CFM	114,000 CFM	127,000 CFM
Max Thrust Reverse	5 lbf	10 lbf	16 lbf	15 lbf	22 lbf	20 lbf
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
Drive & Motor Efficiency at Max RPM***	80%	78%	75%	73%	65%	63%
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 50% Speed*****	42	47	41	43	39	38
Sound Level dBA at 100% Speed *****	61	59	60	56	53	53

WEIGHTS AND DIMENSIONS						
Hanging Weight	144 lbs	153 lbs	162 lbs	172 lbs	180 lbs	188 lbs
Total Shipping Weight	216 lbs	226 lbs	236 lbs	257 lbs	266 lbs	285 lbs
Motor System Shipping Weight	140 lbs	140 lbs	140 lbs	140 lbs	140 lbs	140 lbs
Motor System Shipping Dimensions	29 x 30 x 24 in	29 x 30 x 24 in	29 x 30 x 24 in	29 x 30 x 24 in	29 x 30 x 24 in	29 x 30 x 24 in
Blade Shipping Weight	76 lbs	86 lbs	96 lbs	117 lbs	126 lbs	145 lbs
Blade Shipping Dimensions	72 x 25 x 15 in	72 x 25 x 15 in	72 x 25 x 15 in	96 x 25 x 15 in	96 x 25 x 15 in	108 x 25 x 15 in

MOTOR AND DRIVE TRAIN	
Motor Type	Sensorless, Brushless, Permanent Magnet, Transverse Flux DC Motor
Drive Train	Gearless Direct Drive
Motor Torque Rating	51.6 ft lb [70 Nm] Continuous
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
600 VAC 3-Phase	1.2 A / 5	1.8 A / 5	1.8 A / 5	1.8 A / 5	2.3 A / 5	2.0 A / 5

POWER AND CONTROLS	
Power Source High	1-Phase or 3-Phase [380-600] VAC +/- 5%, 50/60 Hz
Power Source Low	1-Phase or 3-Phase [120-277] VAC +/- 5%, 50/60 Hz
Offered Controllers	Digital Touchpad Standard, MacroAir Controller 6 and 30
Control Types	Digital MODBUS 485

INSTALLATION	
Mounting Hardware	AVD Universal Mount
Drop Extensions	In addition to the standard drop length supplied, optional drop lengths are available in 1 inch increments. Total drop lengths 10 feet and greater require guy wires

RATINGS AND COMPLIANCE	
Fire and Sprinkler	NFPA Compliant
Wash Down Duty Rating	IP65

* Data will be added when additional testing and/or information is ready.

** Calculation based on AMCA 230-99 equation.

*** Determined by dividing the mechanical power output of the motor by the electrical input to the system.

**** Delivers 2.8 - 4.2 ft/s of average air speed in the occupied space. This relates to perceived cooling or set point change or 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 or 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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