MODEL550





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 like dairy farms and equine facilities. The system design eliminates the gearbox for a lighter, leakproof fan that is durable and runs with less friction. This makes it easy to install, maintenance-free and practically inaudible. To ensure safe and reliable operation, 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 silent operation, zero maintenance
- Integrates into HVAC and other automated building systems via gateway
- Wash Down Duty rated for indoor / outdoor use
- Backed by a 50,000-Hour Warranty
- *Compared to the leading competitor's similar model

WARRANTY AND SAFETY

Safety Components: Safety Cable, Rapid Mount Industrial, Blade Retainer Links

Warranty: Lifetime: 50,000 operating hours

BASIC SPECIFICATIONS

AIRFOIL DIAMETER	8ft	10ft	12ft	14ft	16ft	18ft		
Model Number	MA08XL5506	MA10XL5506	MA12XL5506	MA14XL5506	MA16XL5506	MA18XL5506		
Airfoil Style	7.375'' Extruded Anodized Aluminum Airfoil							
Number of Airfoils	6	6	6	6	6	6		



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Table Tabl	PERFORMANCE	8ft	10ft	12ft	14ft	16ft	18ft			
10 10 10 10 10 10 10 10	Max Displacement Forward**									
	Max Thrust Forward	18 lbf [79 N]	29 lbf [127 N]	32 lbf [141 N]	37 lbf [162 N]	39 lbf [174 N]	41 lbf [181 N]			
1	Max Displacement Reverse**									
March Marc	Max Thrust Reverse	5 lbf [24 N]	10 lbf [49 N]	16 lbf [71 N]	15 lbf [68 N]	22 lbf [96 N]	20 lbf [89 N]			
Processing Pro	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			
	Orive & Motor Efficiency at Max RPM***	80%	78%	75%	73%	65%	63%			
Auto Level dBA at 50% Speed ***********************************	Recommended Industry Spacing****	60 ft (18.3 m)	65 ft [19.8 m]	70 ft [21.3 m]	80 ft [24.4 m]	90 ft [27.4 m]	95 ft [29 m]			
### Act 100% Speed***** 61 59 60 56 53 53 53 #### ACT 100% Speed***** 61 59 60 56 53 53 #### ACT 100% Speed***** 61 59 50 50 50 50 50 50 ### ACT 100% Speed***** 61 50 50 50 50 50 50 50 5	Max Affected Area****	4,000 ft ² [372 m ²]	6,600 ft ² [613 m ²]	8,800 ft ² [818 m ²]	11,000 ft ² [1,022 m ²]	13,000 ft ² [1,208 m ²]	15,000 ft ² [1,394 m ²]			
Page	Sound Level dBA at 50% Speed*****	42	47	41	43	39	38			
128 tbs [83.2 kg]	Sound Level dBA at 100% Speed*****	61	59	60	56	53	53			
26 to 5 shipping Weight 21 6 to 5 (98.0 kg) 22 6 to 5 (102.5 kg) 23 6 to 5 (107.0 kg) 257 (to 5 (116.6 kg) 2.64 (to 5 (120.7 kg) 285 to 5 (129.3 kg) 26 to 5 shipping Weight 140 to 5 (3.5 kg) 140 to 5 (3.5	WEIGHTS AND DIMENSIONS									
Motor System Shipping Weight 140 lbs [43.5 kg] 140 lbs [43.5	Hanging Weight	128 lbs [58.2 kg]	137 lbs [62.2 kg]	146 lbs [66.2 kg]	155 lbs [70.2 kg]	164 lbs [74.2 kg]	172 lbs [78.2 kg]			
29-30-24 in	Total Shipping Weight	216 lbs [98.0 kg]	226 lbs [102.5 kg]	236 lbs [107.0 kg]	257 lbs [116.6 kg]	266 lbs [120.7 kg]	285 lbs [129.3 kg]			
1074007940.61 ml 107407940.61 ml 107407940	Motor System Shipping Weight	140 lbs [63.5 kg]	140 lbs [63.5 kg]	140 lbs [63.5 kg]	140 lbs [63.5 kg]	140 lbs [63.5 kg]	140 lbs [63.5 kg]			
Radio Shipping Dimensions	Motor System Shipping Dimensions									
1,83x0,64x0,38 m 1,83x0,34x0,34x0,34x0,34x0,34x0,34x0,34x0,3	Blade Shipping Weight	76 lbs [34.5 kg]	86 lbs [39 kg]	96 lbs [43.5 kg]	117 lbs [53.1 kg]	126 lbs [57.2 kg]	145 lbs [65.8 kg]			
Sensoriess, Brushièss, Permanent Magnet, Transverse Flux DC Motor Sensories Sensoriess, Brushièss, Permanent Magnet, Transverse Flux DC Motor Sensories Sensoriess, Brushièss, Permanent Magnet, Transverse Flux DC Motor Sensories Sensoriess, Brushièss, Permanent Magnet, Transverse Flux DC Motor Sensories Sens	Blade Shipping Dimensions									
Control Cont	MOTOR AND DRIVE TRAIN									
State Torque Rating State To State	Motor Type	Sensorless, Brushless, Permanent Magnet. Transverse Flux DC Motor								
1.05 HP	Orive Train	`								
MAX AMP DRAW / RECOMMENDED FUSE	Motor Torque Rating									
MAX AMP DRAW / RECOMMENDED FUSE 10 VAC 1-Phase 9.0A / 10 13.9A / 15 13.9A / 15 15.2A / 20 15.2A / 20 20 VAC 1-Phase 8.3A / 10 12.7 / 15 12.7A / 15 12.7A / 15 14.0A	Equivalent Horsepower Rating									
10 VAC 1-Phase 9,0A / 10 13,9A / 15 13,9A / 15 13,9A / 15 15,2A / 20 15,2A / 20 20 VAC 1-Phase 8,3A / 10 12,7 / 15 12,7A / 15 12,7A / 15 14,0A / 15 14,0A / 15 14,0A / 15 14,0A / 15 18,2A / 20 20 VAC 1-Phase 4,8A / 5 7,3A / 10 7,3A / 10 7,3A / 10 8,1A / 10	Max Operating Temp			140°F	[60°C]					
20 VAC 1-Phase 8.3A / 10 12.7 / 15 12.7A / 15 12.7A / 15 14.0A / 15 14.0A / 15 14.0A / 15 14.0A / 15 18.24 VAC 1-Phase 4.8A / 5 7.3A / 10 7.3A / 10 7.3A / 10 8.1A / 10 8.1A / 10 8.1A / 10 8.240 VAC 1-Phase 3.6A / 5 5.5A / 10 5.5A / 10 5.5A / 10 6.1A / 10 6.1A / 10 6.1A / 10 6.240 VAC 3-Phase 3.4A / 5 5.3A / 10 5.3A / 10 5.3A / 10 6.6A / 10 5.8A / 10 80 VAC 3-Phase 1.9A / 5 2.9A / 5 2.9A / 5 2.9A / 5 3.6A / 5 3.2A / 5 80 VAC 3-Phase 1.9A / 5 2.3A / 5	MAX AMP DRAW / RECOMMEN	DED FUSE								
08-240 VAC 1-Phase 4.8A/5 7.3A/10 7.3A/10 8.1A/10 8.1A/10 77 VAC 1-Phase 3.6A/5 5.5A/10 5.5A/10 5.5A/10 6.1A/10 6.1A/10 08-240 VAC 3-Phase 3.4A/5 5.3A/10 5.3A/10 5.3A/10 6.6A/10 5.8A/10 80 VAC 3-Phase 1.9A/5 2.9A/5 2.9A/5 2.9A/5 3.6A/5 3.2A/5 80 VAC 3-Phase 1.5A/5 2.3A/5 2.3A/5 2.3A/5 2.9A/5 2.9A/5 2.9A/5 80 VAC 3-Phase 1.5A/5 2.3A/5 1.8A/5 1.8A/5 2.3A/5 2.3A/5 2.9A/5 2.	110 VAC 1-Phase	9.0A / 10	13.9A / 15	13.9A / 15	13.9A / 15	15.2A / 20	15.2A / 20			
1-phase or 3-phase 3.6A / 5 5.5A / 10 5.5A / 10 5.5A / 10 6.1A / 10 6.1A / 10	120 VAC 1-Phase	8.3A / 10	12.7 / 15	12.7A / 15	12.7A / 15	14.0A / 15	14.0A / 15			
198-240 VAC 3-Phase 3.4A / 5 5.3A / 10 5.3A / 10 5.3A / 10 6.6A / 10 5.8A / 10	208-240 VAC 1-Phase	4.8A / 5	7.3A / 10	7.3A / 10	7.3A / 10	8.1A / 10	8.1A / 10			
198-240 VAC 3-Phase 3.4A / 5 5.3A / 10 5.3A / 10 5.3A / 10 6.6A / 10 5.8A / 10	277 VAC 1-Phase									
1.5A / 5 2.3A / 5 2.3	208-240 VAC 3-Phase	3.4A / 5	5.3A / 10	5.3A / 10	5.3A / 10	6.6A / 10	5.8A / 10			
1.2A / 5 1.8A / 5 1.8A / 5 1.8A / 5 2.3A / 5 2.0A / 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 Digital touchpad Standard, MacroAir Controller 6 and 30 (coming soon) Control Types Digital MODBUS 485 (Analog control, BACnet and LonWorks interfaces coming soon) NSTALLATION Mounting Hardware Rapid Mount Industrial Top Extensions In addition to the standard drop length supplied, optional drop lengths are available in 1in increments; total drop lengths 10ft and greater require guy wires	380 VAC 3-Phase	1.9A / 5	2.9A / 5	2.9A / 5	2.9A / 5	3.6A / 5	3.2A / 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 (coming soon) Pointrol Types Digital MODBUS 485 (Analog control, BACnet and LonWorks interfaces coming soon) NSTALLATION Mounting Hardware Rapid Mount Industrial Orop Extensions In addition to the standard drop length supplied, optional drop lengths are available in 1in increments; total drop lengths 10ft and greater require guy wires	480 VAC 3-Phase	1.5A / 5	2.3A / 5	2.3A / 5	2.3A / 5	2.9A / 5	2.5A / 5			
Power Source High 1-phase or 3-phase (380-600) VAC +/-5%, 50/60 Hz 2-bower Source Low 1-phase or 3-phase (120-277) VAC +/-5%, 50/60 Hz 2-bower Source Low Digital touchpad Standard, MacroAir Controller 6 and 30 (coming soon) 2-bontrol Types Digital MODBUS 485 (Analog control, BACnet and LonWorks interfaces coming soon) NSTALLATION Adounting Hardware Rapid Mount Industrial 2-boye Extensions In addition to the standard drop length supplied, optional drop lengths are available in 1in increments; total drop lengths 10ft and greater require guy wires	600 VAC 3-Phase	1.2A / 5	1.8A / 5	1.8A / 5	1.8A / 5	2.3A / 5	2.0A / 5			
Power Source Low 1-phase or 3-phase (120-277) VAC +/-5%, 50/60 Hz Digital touchpad Standard, MacroAir Controller 6 and 30 (coming soon) Control Types Digital MODBUS 485 (Analog control, BACnet and LonWorks interfaces coming soon) NSTALLATION Mounting Hardware Rapid Mount Industrial Orop Extensions In addition to the standard drop length supplied, optional drop lengths are available in 1in increments; total drop lengths 10ft and greater require guy wires	POWER AND CONTROLS									
Digital touchpad Standard, MacroAir Controller 6 and 30 (coming soon) Ontrol Types Digital MODBUS 485 (Analog control, BACnet and LonWorks interfaces coming soon) NSTALLATION Mounting Hardware Rapid Mount Industrial Orop Extensions In addition to the standard drop length supplied, optional drop lengths are available in 1in increments; total drop lengths 10ft and greater require guy wires	Power Source High			1-phase or 3-phase (380	-600) VAC +/-5%, 50/60 Hz					
Digital MODBUS 485 (Analog control, BACnet and LonWorks interfaces coming soon) NSTALLATION Mounting Hardware Rapid Mount Industrial Drop Extensions In addition to the standard drop length supplied, optional drop lengths are available in 1in increments; total drop lengths 10ft and greater require guy wires	Power Source Low									
Digital MODBUS 485 (Analog control, BACnet and LonWorks interfaces coming soon) NSTALLATION Mounting Hardware Rapid Mount Industrial Drop Extensions In addition to the standard drop length supplied, optional drop lengths are available in 1in increments; total drop lengths 10ft and greater require guy wires	Offered Controllers		Digital	touchpad Standard, MacroA	Air Controller 6 and 30 (comin	g soon)				
Mounting Hardware Rapid Mount Industrial Prop Extensions In addition to the standard drop length supplied, optional drop lengths are available in 1in increments; total drop lengths 10ft and greater require guy wires	Control Types	y ,								
Drop Extensions In addition to the standard drop length supplied, optional drop lengths are available in 1in increments; total drop lengths 10ft and greater require guy wires	INSTALLATION									
	Mounting Hardware	Rapid Mount Industrial								
	Orop Extensions	In addition to the standard drop length supplied, optional drop lengths are available in 1in increments; total drop lengths 10ft and greater require quy wires								
	RATINGS AND COMPLIANCE				,					

NFPA Compliant Fire and Sprinkler Wash Down Duty Rating



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^{*}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 into the fan system

****Delivers 2.8-4.2 ft/s [0.86-1.27 m/s] of average air speed in the occupied space. This relates to perceived cooling or set point change or 4.9-6.1 F [2.7-4.3 C]. Consult our online AirViz tool for more details ******Delivers 2.7-3.8 ft/s [0.82-1.16 m/s] of average air speed in the occupied space. This relates to a perceived cooling or set point change of 4.8-5.8 F [2.6-3.2 C]. Consult our online AirViz tool for more details.

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