



Medium to Large Spaces

The AirVolution-D3 is ideally suited for medium to large spaces such as car dealerships, manufacturing facilities and distribution warehouses. Designed to be our most cost-effective HVLS fan, this model incorporates the primary benefits of our gearless technology. It features the highest efficiency motor available, reduced weight, less noise and no maintenance. In addition, it is suitable for wet environments with an IP66 rating for wash down or outdoor use. When high performance, best value and budget are critical factors, the AirVolution-D3 delivers the best ROI of any HVLS fan on the market today.

Key Specs:

- Airfoil sizes 12 to 24 ft integrate into any large space
- Airfoils also available in black (for nominal fee)
- Custom powder coat paint colors available as well
- Lightest HVLS fan on the market*
- Customizable upgrade options
- Wash Down Duty rated for outdoor use
- No gearbox means silent operation, zero maintenance
- Integrates into HVAC and other automated building systems (coming soon)

*Compared to the leading competitor's similar model

WARRANTY AND SAFETY

Warranty: Standard 50,000-Hour Non-Prorated Warranty / 3-Year Warranty Labor with digital touchpad remote

Optional reduced 12-Year Prorated Warranty with analog remote only

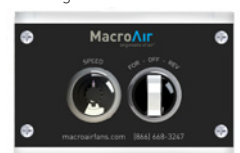
Safety Components: Safety Cable, Standard Mount, Blade Retainer Links, Guy Wires

REMOTE OPTIONS

Digital Remote



Analog Remote



BASIC SPECIFICATIONS

AIRFOIL DIAMETER	12ft	14ft	16ft	18ft	20ft	24ft
Model Number	MA12XL4303	MA14XL4303	MA16XL4303	MA18XL4303	MA20XL4303	MA24XL4303
Airfoil Style	7.375" Extruded Anodized Aluminum Airfoil					
Number of Airfoils	3	3	3	3	3	3

PERFORMANCE	12ft	14ft	16ft	18ft	20ft	24ft
Max Displacement Forward**	84,000 CFM [2,370 CMM]	117,000 CFM [3,330 CMM]	125,000 CFM [3,530 CMM]	166,000 CFM [4,700 CMM]	211,000 CFM [5,980 CMM]	248,000 CFM [7,020 CMM]
Max Thrust Forward	20 lbf [89 N]	29 lbf [129 N]	25 lbf [111 N]	35 lbf [156 N]	46 lbf [205 N]	44 lbf [196 N]
Max Displacement Reverse**	59,000 CFM [1,670 CMM]	87,000 CFM [2,470 CMM]	111,000 CFM [3,160 CMM]	134,000 CFM [3,810 CMM]	156,000 CFM [4,410 CMM]	175,000 CFM [4,960 CMM]
Max Thrust Reverse	10 lbf [44 N]	16 lbf [71 N]	20 lbf [89 N]	23 lbf [102 N]	25 lbf [111 N]	22 lbf [98 N]
Variable Speed	0-135 RPM	0-118 RPM	0-91 RPM	0-87 RPM	0-81 RPM	0-63 RPM
Max Power Usage	510 W	590 W	430 W	610 W	780 W	810 W
Drive & Motor Efficiency at Max RPM***	75%	75%	74%	72%	70%	57%
Recommended Industry Spacing****	60 ft [18.3 m]	70 ft [21.3 m]	75 ft [22.9 m]	80 ft [24.4 m]	90 ft [27.4 m]	95 ft [29 m]
Max Affected Area*****	6,700 ft2 [622 m ²]	8,900 ft2 [827 m ²]	9,600 ft2 [892 m ²]	12,600 ft2 [1,171 m ²]	15,400 ft2 [1,431 m ²]	17,000 ft2 [1,579 m ²]
Sound Level dBA at 50% Speed*****	40	37	34	39	39	45
Sound Level dBA at 100% Speed*****	55	54	52	52	54	51

WEIGHTS AND DIMENSIONS

Hanging Weight	95 lbs [42.9 kg]	99 lbs [44.9 kg]	103 lbs [46.8 kg]	108 lbs [48.8 kg]	112 lbs [50.8 kg]	121 lbs [54.8 kg]
Total Shipping Weight	185 lbs [83.9 kg]	196 lbs [88.9 kg]	200 lbs [90.7 kg]	210 lbs [95.3 kg]	217 lbs [98.4 kg]	236 lbs [107.0 kg]
Motor System Shipping Weight	137 lbs [62.1 kg]	137 lbs [62.1 kg]	137 lbs [62.1 kg]	137 lbs [62.1 kg]	137 lbs [62.1 kg]	137 lbs [62.1 kg]
Motor System Shipping Dimensions	29x30x24 in [0.74x0.76x0.61 m]	29x30x24 in [0.74x0.76x0.61 m]	29x30x24 in [0.74x0.76x0.61 m]	29x30x24 in [0.74x0.76x0.61 m]	29x30x24 in [0.74x0.76x0.61 m]	29x30x24 in [0.74x0.76x0.61 m]
Blade Shipping Weight	48 lb [21.8 kg]	59 lb [26.5 kg]	63 lb [28.6 kg]	73 lb [32.9 kg]	80 lb [36.3 kg]	99 lb [44.7 kg]
Blade Shipping Dimensions	72x25x15 in [1.83x0.64x0.38 m]	96x25x15 in [2.44x0.64x0.38 m]	96x25x15 in [2.44x0.64x0.38 m]	108x25x15 in [2.74x0.64x0.38 m]	120x25x15 in [3.05x0.64x0.38 m]	144x25x15 in [3.66x0.64x0.38 m]

MOTOR AND DRIVE TRAIN

Motor Type	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	122°F [50°C]

MAX AMP DRAW / RECOMMENDED FUSE

208-240 VAC 1-Phase	3.7A / 5	4.3 A / 5	3.2A / 5	4.5A / 5	5.7A / 10	6A / 10
208-240 VAC 3-Phase	2.6A / 5	2.9A / 5	2.4A / 5	3A / 5	3.6A / 5	3.8A / 5

POWER AND CONTROLS

Power Source Low Range	1-phase or 3-phase (208-240) VAC +/-5%, 50/60 Hz
Offered Controllers	Digital touchpad standard, Analog Remote optional (only with 12-Year Prorated Warranty), MacroAir Controller 6 and 30 (coming soon)
Control Types	Digital MODBUS 485 (Analog control, BACnet and LonWorks interfaces coming soon)

INSTALLATION

Mounting Hardware	Standard Mount, UMH optional (Guy wires included)
Drop Extensions	In addition to the standard drop length supplied, optional drop lengths are available in 1in increments; all drop lengths require guy wires

RATINGS AND COMPLIANCE

Fire and Sprinkler	NFPA Compliant
Wash Down Duty Rating	IP66

*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 of 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.