

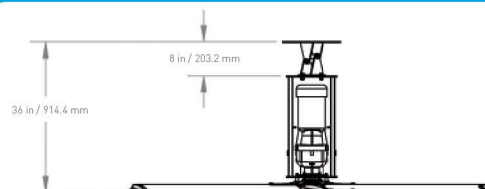
The MacroAir AirVolution uses a proven industrial gearbox-driven power unit in combination with integrated network technology. Combine with one of our multi-fan network controllers or AirLynk for Building Management Systems for advanced control. With a premium industrial gearmotor and advanced control platforms, you get more than fan, you get one of the most versatile cooling solutions available on the market.



Fan Shown with Optional Custom Color Powder Coating

## STANDARD FEATURES

- Integrated Gearmotor
- Clearcoat anodized airfoil blades
- Variable Frequency Drive – Forward, reverse, variable speed and capable of Building Automation Integration (with AirLynk upgrade) and fire alarm
- Digital wall controller with fault code access
- Safety Components: safety cable, Universal Mount with guy wires, blade retainer links



Intertek  
Conforms to UL Std 507  
Certified to CSA Std C22.2 No. 113

## STEP 1: DIAMETERS

Item #	Diameter	Qty
MY08-0100-MA	8 ft Power Unit, 1.0 HP	
MY10-0100-MA	10 ft Power Unit, 1.0 HP	
MY12-0100-MA	12 ft Power Unit, 1.0 HP	
MY14-0100-MA	14 ft Power Unit, 1.0 HP	
MY16-0100-MA	16 ft Power Unit, 1.0 HP	
MY18-0100-MA	18 ft Power Unit, 1.0 HP	
MY20-0150-MA	20 ft Power Unit, 1.5 HP	
MY24-0200-MA	24 ft Power Unit, 2.0 HP	

## STEP 2: VOLTAGE

Item #	Voltage Options	Qty
2xx1-MA	208-240V Single Phase, 50/60 Hz	
2xx3-MA	208-240V Three Phase, 50/60 Hz	
4xx3-MA	480V Three Phase, 50/60 Hz	

xx=horsepower (Use 10,15, or 20 for 1 HP, 1.5HP and 2.0 HP respectively. HP based on diameter selection from step 1 above)

## STEP 3: MOUNTING

Item #	Mount Options	Qty
60-90006-00	AirVolution Universal Mount: I-beam Hardware Kit (Standard)	
60-40041-00	Glulam Hardware Kit (for Universal Mount)	

## STEP 4: CONTROLS

Item #	Description	Qty
30-90308-00	Digital Remote Assembly (Standard)	
30-04006-00	Controller 4	
30-04007-00	Controller 4 + Single Temperature Sensor	
30-04030-00	Controller 30	
30-10012-00	AirLynk - BacNet (per fan)	
30-10011-00	AirLynk - LonWorks (per fan)	
30-90315-00	Local Override Remote (requires AirLynk-BacNet)	
30-04030-02	Dual Control Enabled Controller 30 (requires AirLynk-BacNet)	

## OPTIONAL: EXTENSIONS

Item #	Length (ft/in)	Length (m)	Qty
51-80100-02	1 ft	0.30 m	
51-80200-02	2 ft	0.61 m	
51-80300-02	3 ft	0.91 m	
51-80400-02	4 ft	1.22 m	
51-80500-02	5 ft	1.52 m	
51-80600-02	6 ft	1.82 m	
51-80700-02	7 ft	2.13 m	
51-80800-02	8 ft	2.44 m	
51-80900-02	9 ft	2.74 m	
(51-8ftin)	Customization fee		

AirVolution EXTENSIONS are an additional drop tube attached to the top of the frame. Without an Extension, the total drop for an AirVolution fan is 3 ft (fan, frame, and mount)

AirVolution fans can only be connected with a single-piece of custom length extension.

ft = length in feet (i.e. 04 for 4 feet, 10 for 10 feet)

in = length in inches (i.e. 05 for 5 inches, 10 for 10 inches)

To order Extension greater than 10 ft, please call MacroAir.

Do you have a custom color in mind? Custom powder coating is available for all our blades, mounts and drop lengths.

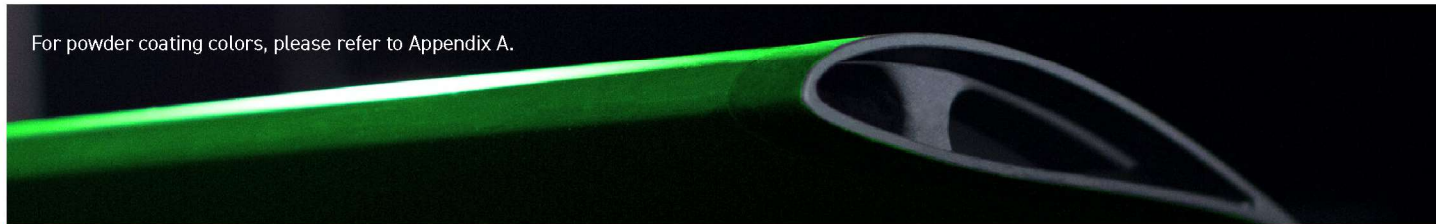
## OPTIONAL: POWDER COATING

Item #	Diameter	Estimated Lead Time	Qty
60-10008-02	8 ft / 2.44 m	15 business days	
60-10010-02	10 ft / 3.05 m	15 business days	
60-10012-02	12 ft / 3.66 m	15 business days	
60-10014-02	14 ft / 4.27 m	15 business days	
60-10016-02	16 ft / 4.88 m	15 business days	
60-10018-02	18 ft / 5.49 m	15 business days	
60-10020-02	20 ft / 6.07 m	15 business days	
60-10024-02	24 ft / 7.32 m	15 business days	

## Special Finishes

Mounting Hardware & Frame	All Diameters	15 business days	
Extension (when applicable)	All Diameters	15 business days	

For powder coating colors, please refer to Appendix A.



## ADDITIONAL OPTIONS

Item #	Description	Qty
-FD	Food-Grade / Stainless Steel - 1.0 HP*	
-EX	Explosion Proof Motor* -1.0 HP (Separate Motor and Gearbox)	

\*Only available for 8ft-18ft, Please see FDA, Stainless, and Explosion Proof specification sheets for more information

## BASIC SPECIFICATIONS

AIRFOIL DIAMETER	8ft	10ft	12ft	14ft	16ft	18ft	20ft	24ft
Airfoil Style	7.375" Extruded Anodized Aluminum Airfoil							
Number of Airfoils	6							
PERFORMANCE								
Max Speed	204 RPM	162 RPM	129 RPM	103 RPM	84 RPM	74 RPM	70 RPM	65 RPM
Recommended Spacing*	50 ft [15.2 m]	60 ft [18.3 m]	65 ft [19.8 m]	70 ft [21.3 m]	85 ft [25.9 m]	90 ft [27.4 m]	100 ft [30.5 m]	110 ft [33.5 m]
Max Affected Area	3,600 ft <sup>2</sup> [336 m <sup>2</sup> ]	6,000 ft <sup>2</sup> [557 m <sup>2</sup> ]	8,000 ft <sup>2</sup> [743 m <sup>2</sup> ]	10,000 ft <sup>2</sup> [929 m <sup>2</sup> ]	12,000 ft <sup>2</sup> [1,115 m <sup>2</sup> ]	14,000 ft <sup>2</sup> [1,301 m <sup>2</sup> ]	18,000 ft <sup>2</sup> [1,673 m <sup>2</sup> ]	20,000 ft <sup>2</sup> [1,858 m <sup>2</sup> ]
Sound Level dBA at Max Speed**	58	58	58	58	58	58	61	61
Carrier/Switching Frequency**	10,000Hz							8,000Hz
HANGING REQUIREMENTS								
Hanging Weight	171 lbs [77.56 kg]	178 lbs [80.74 kg]	189 lbs [85.73 kg]	195 lbs [88.45 kg]	202 lbs [91.63 kg]	208 lbs [94.35 kg]	217 lbs [98.43 kg]	270 lbs [122.5 kg]
Max Torque	18 ft-lb [24 Nm]	24 ft-lb [33 Nm]	31 ft-lb [42 Nm]	43 ft-lb [58 Nm]	40 ft-lb [54 Nm]	58 ft-lb [79 Nm]	88 ft-lb [119 Nm]	126 ft-lb [171 Nm]
Max Thrust in Reverse	4 lbs [1.8 kg]	6 lbs [2.7 kg]	9 lbs [4.1 kg]	14 lbs [6.4 kg]	15 lbs [6.8 kg]	21 lbs [9.5 kg]	31 lbs [14.1 kg]	44 lbs [20 kg]
MOTOR AND DRIVE TRAIN								
Motor Type	AC induction Motor with a sealed 2-stage helical gear box							
Equivalent Horsepower Rating	1.0 HP (8-18ft) / 1.5 HP (20ft) / 2.0 HP (24ft)							
Operating Temp Range	16°F [-10C°] - 104 F° [40C°]							
MAX AMP DRAW								
208-240V Single Phase	20.2A							
208-240V Three Phase	10.8A							
480V Three Phase	4.3A							
POWER AND CONTROLS								
Power Source	Single Phase 208-240 VAC 50/60 Hz / Three Phase 208-240 VAC 50/60 Hz / Three Phase 480 VAC 50/60 Hz							
Control Options	Digital Touchpad, MacroAir Controller 4, Controller 30, AirLynk - BacNet / LonWorks							
INSTALLATION								
Mounting Hardware	Universal Mount Hardware							
Extension	Optional extensions are available in 1ft increments; all drop lengths require guy wires							
RATINGS AND COMPLIANCE								
Fire and Sprinkler	NFPA Compliant							
Wash Down Duty Rating***	IP55							
Certifications	ETL/INTERTEK - Conforms to UL Std 507 / Certified to CSA Std C22.2 No. 113							

\*For spacing between fan units based on the dimensions of a specific space please refer to <https://macroairfans.com/airviz>.

\*\*Sound testing taken with the sensor 5 ft above the ground and 20 ft from the center of the fan at 20 ft high. Carrier frequency will be audible to some listeners and is considered normal during operation. Please see Carrier Frequency section of this guide for more information.

\*\*\*Applicable to the fan unit only, does not include controller and control panel.