

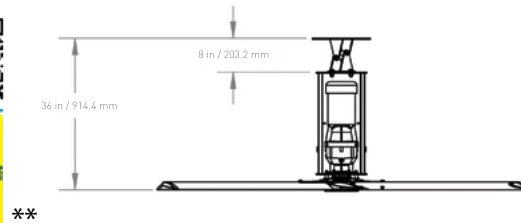
The MacroAir AirVolution uses a proven industrial gearbox-driven power unit in combination with integrated network technology. Combine with one of our multi-fan network controllers or AirLynk for Building Management Systems for advanced control. With a premium industrial gearmotor and advanced control 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



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)	

** MacroAir Technologies, Inc. certifies that the model AirVolution (diameters 8'-24') shown herein are licensed to bear the AMCA seal. The ratings shown are based on the tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

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-02)	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.

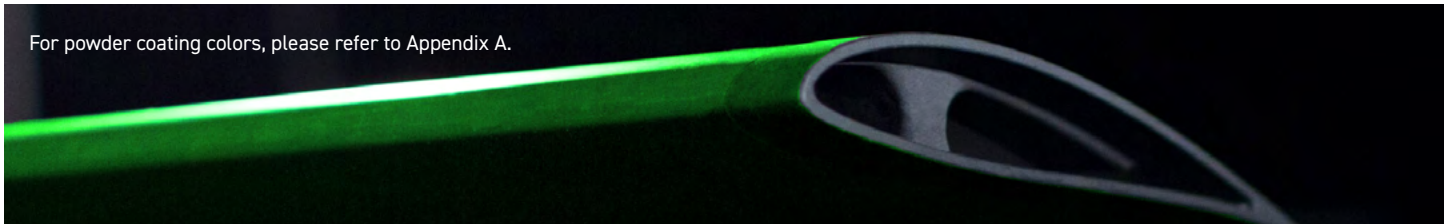
OPTIONAL: POWDER COATING

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 ² [336 m ²]	6,000 ft ² [557 m ²]	8,000 ft ² [743 m ²]	10,000 ft ² [929 m ²]	12,000 ft ² [1,115 m ²]	14,000 ft ² [1,301 m ²]	18,000 ft ² [1,673 m ²]	20,000 ft ² [1,858 m ²]	
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.



PERFORMANCE SPECIFICATIONS

Fan Diameter (Ft)	Fan Speed (% of max RPM)	Fan Speed (RPM)	Voltage/ Phase/ Frequency	Standby Power (Watts)	Electrical Input Power (Watts)	Airflow Rate (CFM)	CFEI 40	CFEI 100	Direction	Reverse Operation?
8	20	40.86	230/Single Phase/60Hz	6	55.15	6959.39	5.09	1.93	Forward	Yes
	40	81.34	230/Single Phase/60Hz		108.04	15013.71			Forward	Yes
	60	121.46	230/Single Phase/60Hz		218.55	22455.17			Forward	Yes
	80	163.51	230/Single Phase/60Hz		428.59	30162.63			Forward	Yes
	100	204.18	230/Single Phase/60Hz		734.75	37221.12			Forward	Yes
10	20	32.54	230/Single Phase/60Hz	6	55.10	10500.73	4.96	1.86	Forward	Yes
	40	64.75	230/Single Phase/60Hz		113.88	22149.13			Forward	Yes
	60	96.40	230/Single Phase/60Hz		238.45	32978.38			Forward	Yes
	80	129.93	230/Single Phase/60Hz		473.50	44105.04			Forward	Yes
	100	162.15	230/Single Phase/60Hz		841.49	55472.72			Forward	Yes
12	20	25.15	230/Single Phase/60Hz	6	52.43	13723.66	5.22	1.88	Forward	Yes
	40	51.82	230/Single Phase/60Hz		109.89	29529.47			Forward	Yes
	60	76.78	230/Single Phase/60Hz		250.28	45959.71			Forward	Yes
	80	103.25	230/Single Phase/60Hz		512.40	61999.82			Forward	Yes
	100	128.77	230/Single Phase/60Hz		919.43	77056.64			Forward	Yes
14	20	20.71	230/Single Phase/60Hz	6	53.90	17014.96	5.33	1.94	Forward	Yes
	40	41.37	230/Single Phase/60Hz		108.15	36659.93			Forward	Yes
	60	61.43	230/Single Phase/60Hz		238.72	56183.44			Forward	Yes
	80	82.52	230/Single Phase/60Hz		498.03	76953.94			Forward	Yes
	100	102.88	230/Single Phase/60Hz		878.81	94965.37			Forward	Yes
16	20	16.78	230/Single Phase/60Hz	6	55.27	20454.35	5.21	1.97	Forward	Yes
	40	33.44	230/Single Phase/60Hz		109.40	42699.14			Forward	Yes
	60	49.94	230/Single Phase/60Hz		228.18	64749.67			Forward	Yes
	80	67.13	230/Single Phase/60Hz		451.52	86412.55			Forward	Yes
	100	83.78	230/Single Phase/60Hz		796.32	108267.74			Forward	Yes
18	20	14.68	230/Single Phase/60Hz	6	65.66	24216.28	4.82	1.94	Forward	Yes
	40	29.41	230/Single Phase/60Hz		120.93	51186.04			Forward	Yes
	60	44.18	230/Single Phase/60Hz		241.41	77795.25			Forward	Yes
	80	59.21	230/Single Phase/60Hz		511.04	104720.26			Forward	Yes
	100	73.91	230/Single Phase/60Hz		846.05	130659.74			Forward	Yes
20	20	14.08	230/Single Phase/60Hz	6	53.80	30312.40	5.44	1.87	Forward	Yes
	40	27.83	230/Single Phase/60Hz		114.45	64025.35			Forward	Yes
	60	41.47	230/Single Phase/60Hz		261.89	98472.59			Forward	Yes
	80	55.83	230/Single Phase/60Hz		553.33	132198.53			Forward	Yes
	100	69.32	230/Single Phase/60Hz		1019.53	165684.28			Forward	Yes
24	20	13.18	230/Single Phase/60Hz	6	66.24	47864.71	4.29	1.49	Forward	Yes
	40	26.07	230/Single Phase/60Hz		177.54	101936.09			Forward	Yes
	60	38.97	230/Single Phase/60Hz		442.91	153923.53			Forward	Yes
	80	52.39	230/Single Phase/60Hz		955.74	208822.53			Forward	Yes
	100	65.09	230/Single Phase/60Hz		1790.63	261870.74			Forward	Yes