

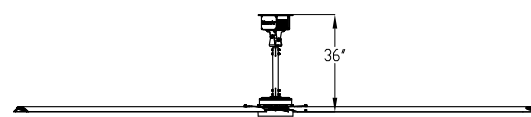
The exclusive MacroAir AVD6 sets the standard for industrial and commercial HVLS fans. Its custom-designed, direct-drive motor is engineered to produce unrivaled air movement with industry-leading efficiencies, reducing energy consumption and maximizing economy. In a world where imitators are commonplace, trust MacroAir's experience as the inventors of HVLS technology. Your project deserves to stand out among the rest with the unparalleled performance of the MacroAir AVD6.



Fan Shown with Optional Powder Coated Blades

STANDARD FEATURES:

- 1.3 HP (equivalent) Direct Drive Motor
- Clearcoat anodized airfoil blades for peak air movement
- Industry leading onboard electronics for unmatched reliability
- Forward, reverse, variable speed
- Integrated VFD/Mount Enclosure
- Digital remote, available upgrades for Network/Building automation
- Available accelerometer functionality for seismic shut down



Pending Conformity to UL Std 507
Certified to CSA Std C22.2 No. 113

STEP 1: POWER UNIT

Item #	Options	Qty
MX00-0085-MA	18 ft Power Unit, 1.0 HP Equivalent	
MX00-0185-MA	24 ft Power Unit, 1.3 HP Equivalent	

STEP 2: BLADES

Item #	Diameter	Qty
60-10018-00	18 ft / 5.49 m	
60-10024-00	24 ft / 7.32 m	

STEP 3: VOLTAGE/PHASE

Item #	Options	Qty
22017-MA	208-240V Single Phase, 50/60 Hz	
22038-MA	208-240V Three Phase, 50/60 Hz	

STEP 4: MOUNTING

Item #	Options	Qty
60-50150-00	AVD Universal Mount with I-beam Hardware Kit	
60-40049-00	Glulam Hardware Kit	
60-50136-00	Rapid Mount Industrial with I-Beam Hardware Kit (requires drive in control panel, offboard)	

STEP 5: CONTROLS

Item #	Description	Qty
30-90308-00	Digital Remote Assembly (Standard)	
30-04006-00	Controller 4	
30-04007-00	Controller 4 + Single Temperature Sensor	
30-04030-01	Controller 30	

*Motor unit only

** MacroAir Technologies, Inc. certifies that the model AVD6 (diameters 18' & 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.

STEP 6: STOCK DROP LENGTHS

Item #	Length (ft/in)	Length (m)	Qty
51-D0200-02	2 ft*	0.61 m	
51-D0300-02	3 ft (Standard)	0.91 m	
51-D0400-02	4 ft	1.22 m	
51-D0500-02	5 ft	1.52 m	
51-D0600-02	6 ft	1.83 m	
51-D0700-02	7 ft	2.13 m	
51-D0800-02	8 ft	2.44 m	
51-D0900-02	9 ft	2.74 m	
51-D1000-02	10 ft	3.05 m	
51-Fftin-02	Customization fee		

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)

*2 ft is the shortest allowed drop length for AVD3. Lengths shorter than the standard drop length are not recommended and will not work for some fan diameters. Consult MacroAir for more details.

To order custom Drop Length or length greater than 10 ft, please call MacroAir.

DROP LENGTH is the distance from fan mounting point to the blades.

AirVolution-D6 fans can only be connected with a single-piece of custom length drop tube.

Measure the distance from the fan's mounting point down to the desired fan blade position and provide this information with the fan order to receive the correct custom drop length.

For custom drop lengths, order a length longer and MacroAir will cut it down to the requested length. Estimated lead time is 10 business days.

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

For powder coating colors, please refer to Appendix A.



ADDITIONAL OPTIONS

Item #	Description	Qty
10-60200-00	AVD Fuse Disconnect*	

*IEC Compliance requires a fused disconnect switch. Fuse selection is input voltage specific, so fuses are not provided with purchase of a disconnect.

BASIC SPECIFICATIONS

AIRFOIL DIAMETER	18ft	24ft
Airfoil Style	7.375" Extruded Anodized Aluminum Airfoil	
Number of Airfoils	6	
PERFORMANCE		
Max Speed (Performance Mode)	70 RPM	60 RPM
Max Speed (Eco Mode)	60 RPM	48 RPM
Recommended Spacing*	90 ft [27.4 m]	110 ft [33.5 m]
Max Affected Area	15,000 ft ² [1,394 m ²]	22,000 ft ² [2,044 m ²]
Carrier/Switching Frequency**	16,000Hz	
HANGING REQUIREMENTS		
Hanging Weight	194 lb [88.00 kg]	215 lb [97.53 kg]
Max Torque	56.83 lbf/ft [77.05 Nm]	115 lbf/ft [156 Nm]
MOTOR AND DRIVE TRAIN		
Motor Type	Radial Flux PMAC motor	
Equivalent Horsepower Rating	1.3 HP (equivalent)	
Operating Temp Range	16°F [-10C°] - 122 F° [50C°]	
MAX AMP DRAW		
208-240V Single Phase	7.8A	7.4A
POWER AND CONTROLS		
Power Source	Single Phase 208-240 VAC 50/60 Hz	
Control Options	Digital Touchpad, MacroAir Controller 4, Controller 30, AirLynk - BacNet	
INSTALLATION		
Mounting Hardware	Universal Mount Hardware (standard, requires guy wires), available upgrade to Rapid Mount Industrial (guy wire free)	
Drop Length	38.6" total drop (43.3" total drop when fire resistant mounting plate is selected)	
RATINGS AND COMPLIANCE		
Fire and Sprinkler	NFPA Compliant	
Outdoor Rating***	Rated for Outdoor Use (motor)*	
Certifications	Pending: ETL/INTERTEK - Conforms to UL Std 507 / Certified to CSA Std C22.2 No. 113	

***Fan unit is rated for washdown, but without guy wires, fan is not rated for outdoor use and cannot be subjected to wind.



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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?
18	20	13.83	230/Single Phase/60Hz	6	64.85	26380.62	4.80	1.42	Forward	Yes
	40	27.68	230/Single Phase/60Hz		138.42	60135.65			Forward	Yes
	60	41.78	230/Single Phase/60Hz		319.22	92359.39			Forward	Yes
	80	55.81	230/Single Phase/60Hz		691.37	124454.14			Forward	Yes
	100	69.70	230/Single Phase/60Hz		1533.13	156505.04			Forward	Yes
24	20	11.84	230/Single Phase/60Hz	6	64.30	42706.33	5.14	1.67	Forward	Yes
	40	23.63	230/Single Phase/60Hz		138.26	95644.96			Forward	Yes
	60	35.71	230/Single Phase/60Hz		332.20	145873.80			Forward	Yes
	80	47.75	230/Single Phase/60Hz		720.63	196266.66			Forward	Yes
	100	59.73	230/Single Phase/60Hz		1435.21	246625.17			Forward	Yes