

Experience the power and efficiency of MacroAir's AVD5, a cutting-edge direct-drive fan for industrial and commercial spaces. The captivating five-blade AVD5 is a perfect composition of purposeful design, superior performance, and cost efficiency. Elevate your projects with the AVD5, a commanding revelation in air movement.

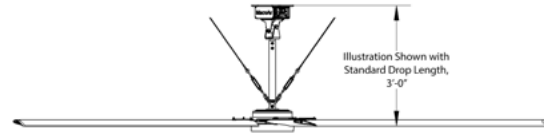


STANDARD FEATURES:

- 1.0 HP (equivalent) Direct Drive motor, rated for indoor/outdoor use*
- Clearcoat anodized airfoil blades
- Industry leading onboard electronics for unmatched reliability
- Forward, reverse, variable speed
- Integrated VFD/Mount Enclosure
- Safety Components: safety cable, Universal Mount with guy wires, blade retainer links



**



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

STEP 1: POWER UNIT

Item #	Options	Qty
M500-0025-MA	8-14 ft Power Unit, 1.0 HP Equivalent	
M500-0035-MA	16-18 ft Power Unit, 1.0 HP Equivalent	
M500-0050-MA	20-24 ft Power Unit, 1.0 HP Equivalent	

STEP 2: BLADES

Item #	Diameter	Qty
60-80008-00	8 ft / 2.44 m	
60-80010-00	10 ft / 3.05 m	
60-80012-00	12 ft / 3.66 m	
60-80014-00	14 ft / 4.27 m	
60-80016-00	16 ft / 4.88 m	
60-80018-00	18 ft / 5.49 m	
60-80020-00	20 ft / 6.07 m	
60-80024-00	24 ft / 7.32 m	

STEP 3: VOLTAGE/PHASE

Item #	Options	Qty
33-22017-00	208-240V Single Phase, 50/60 Hz AVD5 DROP ENCL (for use with Universal Mount)	
33-22038-00	208-240V Three Phase, 50/60 Hz AVD5 DROP ENCL (for use with Universal Mount)	
33-42038-00	480V Three Phase, 50/60 Hz AVD5 DROP ENCL (for use with Universal Mount)	
35-22017-00	208-240V Single Phase, 50/60 Hz AVD5 SCHNEIDER CONT PNL (for use with Rapid Mount Industrial)	
35-22038-00	208-240V Three Phase, 50/60 Hz AVD5 SCHNEIDER CONT PNL (for use with Rapid Mount Industrial)	
35-42038-00	480V Three Phase, 50/60 Hz AVD5 SCHNEIDER CONT PNL (for use with Rapid Mount Industrial)	

STEP 4: MOUNTING

Item #	Options	Qty
60-50151-00	AVD Universal Mount with I-beam Hardware Kit	
60-40049-00	Glulam Hardware Kit	
60-50158-00	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	
30-10012-00	AirLynk - BacNet	
30-10011-00	AirLynk - LonWorks	
30-04030-02	Dual Control Enabled Controller 30 (requires AirLynk-BacNet)	

*Motor unit only

** MacroAir Technologies, Inc. certifies that the model AVD5 (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.

STEP 6: STOCK DROP LENGTHS

Item #	Length (ft/in)*	Length (m)	Qty
51-X0200-02	2 ft**	0.61 m	
51-X0300-02	3 ft (Standard)	0.91 m	
51-X0400-02	4 ft	1.22 m	
51-X0500-02	5 ft	1.52 m	
51-X0600-02	6 ft	1.83 m	
51-X0700-02	7 ft	2.13 m	
51-X0800-02	8 ft	2.44 m	
51-X0900-02	9 ft	2.74 m	
51-X1000-02	10 ft	3.05 m	
51-Fftin-02	Customization fee		

* Lengths are +/- 1" depending on power unit selection/fan diameter.

X= substitute D for drops with UMH mount, F for drops with Rapid Mount Industrial (i.e. 51-F0500-02 describes a 5' drop for use with a Rapid Mount Industrial).

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 AVD5. Lengths shorter than the standard drop length are not recommended and will not work for some fan diameters. Consult MacroAir for more details.

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

AVD5 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
60-80008-02	8 ft / 2.44 m	15 business days	
60-80010-02	10 ft / 3.05 m	15 business days	
60-80012-02	12 ft / 3.66 m	15 business days	
60-80014-02	14 ft / 4.27 m	15 business days	
60-80016-02	16 ft / 4.88 m	15 business days	
60-80018-02	18 ft / 5.49 m	15 business days	
60-80020-02	20 ft / 6.07 m	15 business days	
60-80024-02	24 ft / 7.32 m	15 business days	

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	8ft	10ft	12ft	14ft	16ft	18ft	20ft	24ft
Airfoil Style	7.375" Extruded Anodized Aluminum Airfoil							
Number of Airfoils	5							
PERFORMANCE								
Max Speed	200 RPM	190 RPM	130 RPM	99 RPM	78 RPM	73 RPM	70 RPM	50 RPM
Recommended Spacing*	57 ft [17.4 m]	62 ft [18.9 m]	67 ft [20.4 m]	77 ft [23.5 m]	82 ft [25.0 m]	87 ft [26.5 m]	97 ft [29.6 m]	105 ft [32.0 m]
Max Affected Area	4,950 ft ² [460 m ²]	6,150 ft ² [571 m ²]	8,100 ft ² [752 m ²]	10,300 ft ² [957 m ²]	11,875 ft ² [1,103 m ²]	14,200 ft ² [1,319 m ²]	18,475 ft ² [1,716 m ²]	20,350 ft ² [1,891 m ²]
Sound Level dBA at Max Speed**	61	59	60	56	53	53	57	56
Carrier/Switching Frequency**	16,000Hz							
HANGING REQUIREMENTS								
Hanging Weight	138.8 lbs [63.0 kg]	140.9 lbs [63.9 kg]	143.1 lbs [64.3 kg]	145.2 lbs [65.8 kg]	155.8 lbs [70.7 kg]	157.9 lbs [71.6 kg]	173.6 lbs [78.7 kg]	177.8 lbs [80.6 kg]
MOTOR AND DRIVE TRAIN								
Motor Type	Gearless Direct Drive							
Equivalent Horsepower Rating	1.0 HP (8ft - 24ft)							
Operating Temp Range	16°F [-10°C] - 140 F° [60°C]							
MAX AMP DRAW								
208-240V Single Phase	3.8	6.5	5.1	4.4	3.7	4.5	5.4	4.3
208-240V Three Phase	2.2	3.8	2.9	2.5	2.1	2.6	3.1	2.5
480V Three Phase	1.6	2.7	2.1	1.8	1.5	1.8	2.2	1.8
POWER AND CONTROLS								
Power Source	Single Phase or Three Phase 208-240 VAC +/-5%, 50/60 Hz, Three Phase 480 VAC +/-5%, 50/60 Hz							
Control Options	Digital Touchpad, MacroAir Controller 4, Controller 30, AirLynk - BacNet							
INSTALLATION								
Mounting Hardware	Universal Mount, Rapid Mount Industrial							
Drop Length	In addition to the standard drop length supplied, optional drop lengths are available in 1ft increments; all drop lengths require guy wires except when used with the Rapid Mount Industrial							
RATINGS AND COMPLIANCE								
Fire and Sprinkler	NFPA Compliant							
Outdoor Rating***	Rated for outdoor use							
Certifications	Pending: 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. Supplemental information on Carrier Frequency and Decibel levels are supplied with the full product selection guide.

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



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	39.29	230/Single Phase/60Hz	6	63.29	6221.01	5.00	2.32	Forward	Yes
	40	79.64	230/Single Phase/60Hz		109.07	15001.26			Forward	Yes
	60	119.65	230/Single Phase/60Hz		203.40	23043.86			Forward	Yes
	80	159.80	230/Single Phase/60Hz		370.00	31189.61			Forward	Yes
	100	199.77	230/Single Phase/60Hz		664.34	39768.88			Forward	Yes
10	20	37.73	230/Single Phase/60Hz	6	63.00	11726.79	4.74	1.72	Forward	Yes
	40	75.68	230/Single Phase/60Hz		132.17	25903.45			Forward	Yes
	60	113.70	230/Single Phase/60Hz		311.58	40512.75			Forward	Yes
	80	151.78	230/Single Phase/60Hz		642.76	54234.86			Forward	Yes
	100	189.82	230/Single Phase/60Hz		1232.83	67986.16			Forward	Yes
12	20	26.04	230/Single Phase/60Hz	6	57.21	14043.54	5.30	1.92	Forward	Yes
	40	52.58	230/Single Phase/60Hz		110.14	30699.24			Forward	Yes
	60	78.87	230/Single Phase/60Hz		246.81	48317.31			Forward	Yes
	80	105.23	230/Single Phase/60Hz		515.62	65055.76			Forward	Yes
	100	130.47	230/Single Phase/60Hz		952.33	80552.38			Forward	Yes
14	20	20.09	230/Single Phase/60Hz	6	50.98	15424.58	5.83	2.05	Forward	Yes
	40	40.55	230/Single Phase/60Hz		95.86	35554.07			Forward	Yes
	60	61.15	230/Single Phase/60Hz		215.12	56722.08			Forward	Yes
	80	81.47	230/Single Phase/60Hz		451.72	76620.52			Forward	Yes
	100	98.81	230/Single Phase/60Hz		791.15	93049.60			Forward	Yes
16	20	15.67	230/Single Phase/60Hz	6	49.64	17501.58	6.43	2.35	Forward	Yes
	40	30.83	230/Single Phase/60Hz		85.12	39296.79			Forward	Yes
	60	47.26	230/Single Phase/60Hz		170.21	60301.63			Forward	Yes
	80	62.98	230/Single Phase/60Hz		341.23	82064.17			Forward	Yes
	100	78.74	230/Single Phase/60Hz		626.63	103761.76			Forward	Yes
18	20	15.09	230/Single Phase/60Hz	6	49.49	21289.21	6.22	2.05	Forward	Yes
	40	29.37	230/Single Phase/60Hz		92.31	49972.45			Forward	Yes
	60	44.22	230/Single Phase/60Hz		198.93	76482.90			Forward	Yes
	80	59.03	230/Single Phase/60Hz		423.14	103765.95			Forward	Yes
	100	73.72	230/Single Phase/60Hz		802.18	130918.37			Forward	Yes
20	20	13.83	230/Single Phase/60Hz	6	56.41	29309.47	5.74	1.96	Forward	Yes
	40	27.68	230/Single Phase/60Hz		107.50	63586.72			Forward	Yes
	60	41.77	230/Single Phase/60Hz		236.85	97829.49			Forward	Yes
	80	55.80	230/Single Phase/60Hz		493.18	131927.32			Forward	Yes
	100	69.88	230/Single Phase/60Hz		985.79	167290.66			Forward	Yes
24	20	9.86	230/Single Phase/60Hz	6	51.95	33160.85	6.40	2.17	Forward	Yes
	40	19.74	230/Single Phase/60Hz		92.80	72814.06			Forward	Yes
	60	29.69	230/Single Phase/60Hz		195.97	114369.90			Forward	Yes
	80	39.76	230/Single Phase/60Hz		404.79	153678.67			Forward	Yes
	100	49.78	230/Single Phase/60Hz		769.30	193647.41			Forward	Yes