



## MacroAir AVD5 Ceiling Fan Khinds Systems Instructions

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**MacroAir**  
engineers of air™

AVD5 Ceiling Fan Khinds  
Systems Instructions



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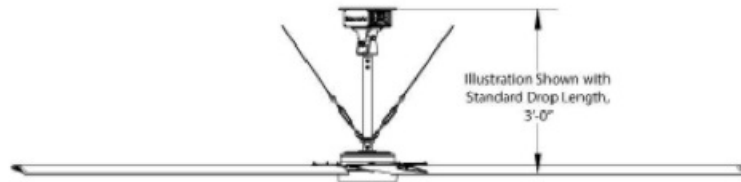
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### AVD5 Ceiling Fan Khinds Systems

Experience the power and efficiency of Macro Air'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 AMCA Certification



\*Pending Conformity to UL Std 507

Certified to CSA Std C22.2 No, 113

### STEP 1:

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 -suivalent	
STEP 2: BLADES		
Item #	Diameter	Qty
60-80008-00	8 ft / 2.44 m	
60-80010-00	10ft/ 3.05m	
60-80012-00	12ft/ 3.66m	
60.80014-00	14ft/4.27m	
60-80016-00	int/Assn	
60-80018-00	1811/5.49m	
6040020-00	20 ft / 6.07 m	
60-80024-00	24 ft / 7.32 m	
STEP 3: VOLTAGE/PHASE		
Item #	Options	Qty

33.21017-00	208.240V Single Phase, 50/60 Hz AVD5 DROP ENCL (for use with Universal Mount)	
33-21038-00	208-240V Three Phase, 50/60 Hz AVD5 DROP ENCL (for use with Universal Mount)	
33.41038-00	480V Three Phase, 50/60 Hz AVD5 DROP ENCL (for use with Universal Mount)	
35-21017-00	208.240V Single Phase, 50/60 Hz AVD5 SCHNEIDER CONT PNL (for use with Rapid Mount Industrial)	
35-21038-00	208-240V Three Phase, 50/60 Hz AVD5 SCHNEIDER CONT PNL (for use with Rapid Mount Industrial)	
35-41038-00	480V Three Phase, 50/60 Hz AVD5 SCHNEIDER CONT PNL (for use with Rapid Mount Industrial)	
<b>STEP 4:MOUNTING</b>		
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)	
<b>STEP 5 CONTROLS</b>		
Item #	Description	Qty
30-90308-00	Digital Remote Assembly (Standard)	
30-04006-00	Controller 4	
30040117-00	Controller 4+ Single Temperature Sensor	
30-04030-01	Controller 30	
30-10012-00	AirLynk – BacNet	
30-10011-00	AirLynk – Lon works	
304403002	Dual Control Enabled Controller 30 (requires AirLynk-BacNet)	

STEP 6 STOCK DROP LENGTHS		Length (m)	Qty
Item #	Length (ft/in)*		
5140200-02	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-F1tin-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 n feet (i.e. 04 for 4 feet, 10 for 10 feet)

n = 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 Macro Air 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	

## ADDITIONAL OPTINS

Item #	Description	Qty
1 0-60200-00	AVD Fuse Disconnect*	

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

BASIC SPECIFICATIONS

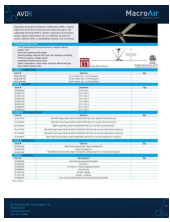
AIRFOIL DIAMETER	8ft	10ft	12ft	14ft	16ft	18ft	20ft	24ft
Airfoil Style	7.375" Extruded Anodized Aluminum Airfoil							
Number of Airfoils	5							
PERFORMANCE								
Max Speed	200 RPM	190 RPM	130 RPM	99 RPM	78 RPM	73 RPM	70 RPM	50 RPM
Recommended Spacing*	57 ft [17.4 m]	62 ft [18.9 m]	67 ft [20.4 m]	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 ft² [460 m²]	6,150 ft² [571 m²]	8,100 ft² [752 m²]	10,300 ft² [957 m²]	11,875 ft² [1,103 m²]	14,200 ft² [1,319 m²]	18,475 ft² [1,716 m²]	20,350 ft² [1,891 m²]
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 [-10C°] - 140 F° [60C°]							
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 Pending: AMCA Certified							

“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 s considered normal during operation. Supplemental nformation 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.

## Documents / Resources



### [MacroAir AVD5 Ceiling Fan Khinds Systems](#) [pdf] Instructions

AVD5 Ceiling Fan Khinds Systems, AVD5, Ceiling Fan Khinds Systems, Fan Khinds Systems, K hinds Systems, Systems

## References

- [User Manual](#)

### [Manuals+](#), [Privacy Policy](#)

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