AVD3

The three-blade design of the AVD3 reduces weight, friction, and raw materials, which in turn minimizes the strain on the building, your energy consumption, and your budget. But can three blades do the job? Yes! Just like a wind turbine, we designed the AVD3 to be the optimal balance between weight, materials, and efficiency.

STANDARD FEATURES

- Direct Drive motor ٠
- Clearcoat anodized airfoil blades with centrifugal cooling •
- Forward, reverse, variable speed
- Rated for indoor and outdoor use*
- Capable of Building Automation Integration (with AirLynk upgrade) and fire alarm
- Digital wall controller with fault code access
- Safety Components: safety cable, Uninversal Mount with guy • wires, blade retainer links



*Motor unit only **Only compatible with Controller 30, pricing is per zone. Not compatible with Dual Control option.



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ILLUSTRATION

SHOWN WITH

STANDARD DROP LENGTH

[0.920]

3'-0'

[1.060]

AVD3

STEP 6: STOCK DROP LENGTHS

ltem #	Length (ft/in)	Length (m)	Qty
51-F0200-02	2 ft*	0.61 m	
51-F0300-02	3 ft (Standard)	0.91 m	
51-F0400-02	4 ft	1.22 m	
51-F0500-02	5 ft	1.52 m	
51-F0600-02	6 ft	1.83 m	
51-F0700-02	7 ft	2.13 m	
51-F0800-02	8 ft	2.44 m	
51-F0900-02	9 ft	2.74 m	
51-F1000-02	10 ft	3.05 m	
51-F ftin- 02	Customiza		

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 AVD3-430. 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.

AVD3 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							
ltem #	Diameter	Estimated Lead Time	Qty				
60-30008-02	8 ft / 2.44 m	15 business days					
60-30010-02	10 ft / 3.05 m	15 business days					
60-30012-02	12 ft / 3.66 m	15 business days					
60-30014-02	14 ft / 4.27 m	15 business days					
60-30016-02	16 ft / 4.88 m	15 business days					
60-30018-02	18 ft / 5.49 m	15 business days					
60-30020-02	20 ft / 6.07 m	15 business days					
60-30024-02	24 ft / 7.32 m	15 business days					

For powder coating colors, please refer to Appendix A.



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AVD3

BASIC SPECIFICATIONS

AIRFOIL DIAMETER	8ft	10ft	12ft	14ft	16ft	18ft	20ft	24ft			
Airfoil Style		7.375" Extruded Anodized Aluminum Airfoil									
Number of Airfoils	3										
PERFORMANCE											
Max Speed	184 RPM	170 RPM	135 RPM	120 RPM	98 RPM	83 RPM	72 RPM	50 RPM			
Recommended Spacing*	50 ft [15.2 m]	55 ft (16.8 m)	60 ft (18.3 m)	70 ft [21.3 m]	75 ft [22.9 m]	80 ft [24.4 m]	90 ft [27.4 m]	95 ft [29 m]			
Max Affected Area	4,150 ft² [385 m²]	5,200 ft ² [483 m ²]	6,700 ft² [622 m²]	8,900 ft ² [827 m ²]	9,600 ft ² [892 m ²]	12,600 ft ² [1,171 m ²]	15,400 ft ² [1,431 m ²]	17,000 ft ² [1,579 m ²]			
Sound Level dBA at Max Speed**	63	58	57	55	55	55	54	33			
HANGING REQUIREMENTS											
Hanging Weight	102.2 lbs [46.38 kg]	107.3 lbs [48.67 kg]	112.4 lbs [50.98 kg]	117.5 lbs [53.30 kg]	131.8 lbs [59.78 kg]	136.9 lbs [62.10 kg]	142.0 lbs [64.41 kg]	142.0 lbs [64.41 kg]			
Max Torque	8 ft-lb [11 Nm]	16 ft-lb [22 Nm]	22 ft-lb [30 Nm]	25 ft-lb [34 Nm]	33 ft-lb [45 Nm]	36 ft-lb [49 Nm]	42 ft-lb [57 Nm]	40 ft-lb [55 Nm]			
Max Thrust in Reverse	4 lbs [1.9 kg]	9 lbs [4.1 kg]	11 lbs [5.0 kg]	14 lbs [6.4kg]	18 lbs [8.2 kg]	20 lbs [9.1 kg]	22 lbs [10.0 kg]	18 lbs [8.2kg]			
MOTOR AND DRIVE TRAIN											
Motor Type		Gearless Direct Drive									
Equivalent Horsepower Rating	3/4 HP (8ft - 14ft) / 1.0 HP (16ft - 24ft)										
Operating Temp Range				16°F [-10C°] -	- 140 F° [60C°]						
MAX AMP DRAW											
208-240V Single Phase	1.4A	2.6A	2.7A	2.7A	2.9A	ЗA	3.1A	2.3A			
208-240V Three Phase	0.8A	1.3A	1.6A	1.7A	1.7A	1.7A	1.7A	1.2A			
POWER AND CONTROLS											
Power Source			Single Phase	or Three Phase	208-240 VAC +	/-5%, 50/60 Hz					
Control Options	Digital Touchpad, MacroAir Controller 4, Controller 30, AirLynk - BacNet										
INSTALLATION											
Mounting Hardware				Univers	al Mount						
Drop Length	In addition to the standard drop length supplied, optional drop lengths are available in 1ft increments; all drop lengths require guy wires										
RATINGS AND COMPLIANCE											
Fire and Sprinkler	NFPA Compliant										
Outdoor Rating***	Rated for outdoor use										

*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.

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



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