

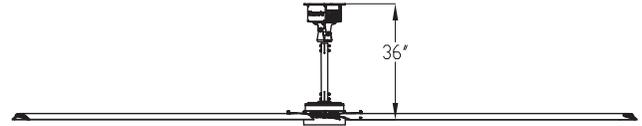


Fan Shown with Optional Custom Color Powder Coating

The exclusive MacroAir AVDX 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.

Standard Feature

- 1.3 HP (equivalent) Direct drive motor
- Clearcoat anodized airfoil blades for peak air movement
- Forward, reverse, variable speed
- Integrated VFD/Mount enclosure
- Digital remote, available upgrades for Network/Building automation
- Available accelerometer functionality for seismic shut down and fire suppression hardware
- Additional light kit add-on is available



Step 1: Power Unit

Item #	Options	Qty
AVDX-8235-MA	8-12 ft Power Unit	
AVDX-1435-MA	14 ft Power Unit	
AVDX-6845-MA	16-18 ft Power Unit	
AVDX-2060-MA	20 ft Power Unit	
AVDX-2485-MA	24 ft Power	

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: Phase/Voltage

Item #	Off Board	Qty	Item #	On Board (Standard)	Qty
33-22017-00	208-240V Single Phase, 50/60 Hz		35-22017-00	208-240V Single Phase, 50/60 Hz (drive integrated above UMH mount)	
33-22038-00	208-240V Three Phase, 50/60 Hz		35-22038-00	208-240V Three Phase, 50/60 Hz (drive integrated above UMH mount)	
33-42038-00	480V Three Phase, 50/60 Hz		35-42038-00	480V Three Phase, 50/60 Hz (drive integrated above UMH mount)	

Step 4: Mounting Hardware

Item #	Options	Qty
60-50161-00	AVDX Universal Mount: I-beam Hardware Kit (Standard)	
60-50158-00	Rapid Mount Industrial w/ I-beam Hardware Kit	
60-40049-00	Glulam Hardware Kit (for Universal Mount)	

Step 5: Controllers

Item #	Description	Qty
30-90308-00	Digital Remote Assembly	
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)	
30-04030-02	Dual Control Enabled Controller 30 (requires AirLynk-BacNet)	

*Motor unit only
 ** MacroAir Technologies, Inc. certifies that the model AVDX (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-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-Xftin-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.

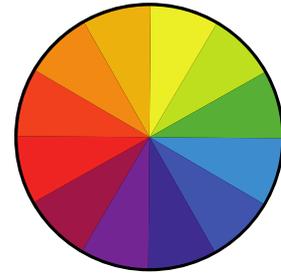
AVDX fans can only be connected with a single-piece of custom length drop tube.

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.

Optional: Powder Coating			
Blade 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	

Do you need a custom color?



We offer custom color options for fan blades, mounts, and drop tubes — so your fan can match your brand, design vision, or space aesthetic. For a full list of available custom powder coating colors, please refer to Appendix A.

Additional Options		
Item #	Description	Qty
10-60200-00	AVD Fuse Disconnect*	
20-30020-00	AVD Light Kit and Hardware (for use with AVD3, AVD5, AVD370, AVDX)	

*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	6							
Performance								
Max Speed	157 RPM	172 RPM	125 RPM	93 RPM	79 RPM	70 RPM	68 RPM	60 RPM
Recommended Spacing*	45 ft [16.8 m]	55 ft [16.8m]	60 ft [18.3]	70 ft [21.3 m]	75 ft [22.9 m]	80 ft [24.4m]	90 ft [27.4 m]	95 ft [29 m]
Max Affected Area	3600 ft2 [334m2]	6000 ft2 [557m2]	8000 ft2 [743 m2]	10000 ft2 [929 m2]	12000 ft2 [1115 m2]	15,000ft2 [1,394 m2]	18000 ft2 [1672 m2]	22,000 ft2 [2,044 m2]
Sound Level dBA at Max Speed**	56	56	55	54	52	52	54	51
Carrier/Switching Frequency**	16,000Hz							
Hanging Requirements								
Hanging Weight	104lb [47.2 Kg]	110lb [49.9Kg]	122 lbs [55.3 kg]	134 lbs [60.8 kg]	148 lbs [67.1 kg]	154 lbs [69.9 kg]	174 lbs [78.9 kg]	213 lbs [96.6 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	1-2 HP (equivalent)							
Operating Temp Range	16°F [-10C°] - 122 F° [50C°]							
Max Amp Draw								
208-240V Single Phase	3.41	5.15	4.07	3.46	3.41	7.76	5.53	7.53
208-240V Three Phase	2.03	3.24	2.54	2.16	2.06	4.81	3.31	4.50
400-480V Three Phase	.97	1.55	1.22	1.04	0.99	2.31	1.59	2.16
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 Hardware (standard, requires guy wires), or 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)*							
Warranty	15 years mechanical (blades, hub, and frame), 10 years electrical (motor, controls, and remote), 1 year of labor coverage.							

*Motor unit only

***Fan unit is rated for washdown, but without guy wires, fan is not rated for outdoor use and cannot be subjected to wind. Outdoor rated fan will require NEMA 4X VFD Enclosure mounted away from fan unit.

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	1.811	1.063	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	2.077	1.318	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

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