AVDXPro

The AVDXPro boasts a bullet-proof, industrial-grade, direct drive motor/controller platform that's more powerful and far superior to any fan before it. A true workhorse, the AVDXPro can endure the harshest industrial environments without breaking a sweat, while its silent operation and sleek design also make it an excellent choice for commercial spaces.

Fan Shown with Optional Custom Color Powder Coating

Standard Features

- Direct drive motor, rated for indoor/outdoor use*
- Clearcoat anodized airfoil blades
- Forward, reverse, variable speed
- Variable Frequency Drive
- Building automation integration with AirLynk and fire alarm
- Digital wall controller with fault code access
- Safety components: safety cable, Universal Mount with guy wires, blade retainer links
- Conforms to UL Std 507, Certified to CSA Std C22.2 No. 113

STANDARD DROP LENGTH
(8'-18' FAN)   (20'-24' FAN)
[0.90M]   [0.94M]
35.5"   37"
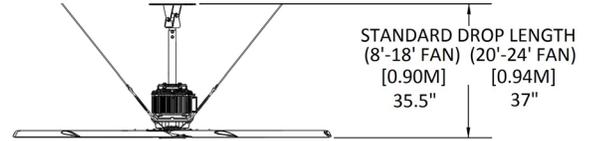
Step 1: Power Unit

Item #	Options	Qty
MX00-S085-MA	8-12 ft Power Unit, 1.0 HP Equivalent	
MX00-0085-MA	14-18 ft Power Unit, 1.0 HP Equivalent	
MX00-0185-MA	20-24 ft Power Unit, 2.0 HP Equivalent	

Step 2: Blades

Item #	Diameter	Qty
60-10008-00	8 ft / 2.44 m	
60-10010-00	10 ft / 3.05 m	
60-10012-00	12 ft / 3.66 m	
60-10014-00	14 ft / 4.27 m	
60-10016-00	16 ft / 4.88 m	
60-10018-00	18 ft / 5.49 m	
60-10020-00	20 ft / 6.07 m	
60-10024-00	24 ft / 7.32 m	

Step 3: Phase/Voltage

Item #	Options	Qty
22017-MA	208-240V Single Phase, 50/60 Hz	
22038-MA	208-240V Three Phase, 50/60 Hz	
42039-MA	480V Three Phase, 50/60 Hz	

Step 4: Mounting Hardware

Item #	Options	Qty
60-50135-00	AVDX Universal Mount: I-beam Hardware Kit	
60-50136-00	Rapid Mount Industrial w/ I-beam Hardware Kit	
60-40041-00	Glulam Hardware Kit (for Universal Mount)	
60-50041-00	AVDX Direct Mount Kit (no drop tube, 23.5" height for 8'-18' diameter fans, 24.8" height for 20'-24' fans)	

Step 5: Controllers

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	
30-90315-00	Local Override Remote (requires AirLynk-BacNet)	
30-04030-02	Dual Control Enabled Controller 30 (requires AirLynk-BacNet)	

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Step 6: Stock Drop Lengths

Item #	Length (ft/in)	Length (m)	Qty
51-60300-0x	3 ft (Standard)*	0.91 m	
51-60400-0x	4 ft	1.22 m	
51-60500-0x	5 ft	1.52 m	
51-60600-0x	6 ft	1.82 m	
51-60700-0x	7 ft	2.13 m	
51-60800-0x	8 ft	2.44 m	
51-60900-0x	9 ft	2.74 m	
51-61000-0x	10 ft	3.05 m	
(51-6ftin-0x)	Customization fee		

x = 2 for AVD Universal Mount,
or 3 for Rapid Mount Industrial

* 3 ft is the shortest allowed drop for the AVDX when utilizing a drop tube, however some applications can be mounted without use of a drop tube and proper mount hardware selection. Please contact your MacroAir sales rep to confirm best practices to maintain fan performance.
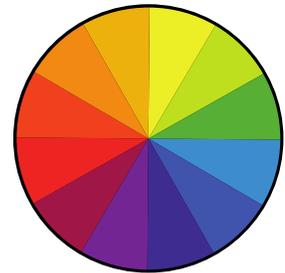
Drop length is the distance from fan mounting point to the blades.

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 drop length.

MacroAir HVLS fans can only be connected with a single piece of custom length extension.

Optional: Powder Coating

Blade 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			
Mounting hardware & drop length	All Diameters	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.

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

	8ft	10ft	12ft	14ft	16ft	18ft	20ft	24ft
Max Speed	214 RPM	163 RPM	137 RPM	110 RPM	90 RPM	74 RPM	77 RPM	60 RPM
Recommended Spacing*	60 ft (18.3 m)	65 ft [19.8 m]	70 ft [21.3 m]	80 ft [24.4 m]	85 ft [25.9 m]	90 ft [27.4 m]	100 ft [30.5 m]	110 ft [33.5 m]
Max Affected Area	4,000 ft² [372 m²]	6,600 ft² [613 m²]	8,800 ft² [818 m²]	11,000 ft² [929 m²]	13,000 ft² [1,115 m²]	15,000 ft² [1,301 m²]	20,000 ft² [1,673 m²]	22,000 ft² [1,858 m²]
Sound Level dBA at Max Speed**	61	59	60	56	53	53	57	56
Carrier/Switching Frequency**	16Hz							

Hanging Requirements

	8ft	10ft	12ft	14ft	16ft	18ft	20ft	24ft
Hanging Weight	156 lbs [70.77 kg]	165 lbs [74.85 kg]	174 lbs [78.93 kg]	183 lbs [83.01 kg]	192 lbs [87.10 kg]	201 lbs [91.17 kg]	242 lbs [109.77 kg]	260 lbs [117.93 kg]
Max Torque	18 ft-lb [24 Nm]	30 ft-lb [40 Nm]	44 ft-lb [60 Nm]	43 ft-lb [58 Nm]	40 ft-lb [54 Nm]	58 ft-lb [79 Nm]	88 ft-lb [119 Nm]	126 ft-lb [171 Nm]
Max Thrust in Reverse	6 lbs [2.8 kg]	10 lbs [4.6 kg]	14 lbs [6.4 kg]	14 lbs [6.4 kg]	15 lbs [6.8 kg]	21 lbs [9.5 kg]	31 lbs [14.1 kg]	44 lbs [20 kg]

Motor and Drive Train

Motor Type	Radial Flux PMAC Motor
Equivalent Horsepower Rating	1.0 HP (8-18ft) / 2.0 HP (20-24ft)
Operating Temp Range	16°F [-10C°] - 122 F° [50C°]

Max Amp Draw

	8ft	10ft	12ft	14ft	16ft	18ft	20ft	24ft
208-240V Single Phase	3.71	3.85	4.79	4.87	4.69	4.26	5.78	6.43
208-240V Three Phase	2.07	2.16	2.79	2.85	2.73	2.44	3.54	3.92
400-480V Three Phase	0.99	1.04	1.34	1.37	1.31	1.17	1.70	1.88

Power and Controls

Power Source	Single Phase 208-240 VAC 50/60 Hz / Three Phase 208-240 VAC 50/60 Hz / Three Phase 480 VAC 50/60 Hz
Control Options	Digital Touchpad, MacroAir Controller 4, Controller 30, AirLynk - BacNet / LonWorks

Installation

Mounting Hardware	Universal Mount Hardware
Extension	Optional extensions available in 1ft increments; all drop lengths with Universal Mounting Hardware need guy wires

Ratings and Compliance

Fire and Sprinkler	NFPA Compliant
Wash Down Duty Rating***	IP65
Certifications	ETL/INTERTEK - Conforms to UL Std 507 / Certified to CSA Std C22.2 No. 113
Warranty	15 yrs mechanical (blades, hub, and frame), 10 yrs electrical (motor, controls, and remote), 1 yr of labor coverage.

*For spacing between fan units based on the dimensions of a specific space please refer to https://macroairfans.com
** 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. ***Applicable to the fan unit only, does not include controller and control panel.

AVDXPro

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	42.60	230/Single Phase/60Hz	6	65.50	5577.71	1.627	1.428	Forward	Yes
	40	81.51	230/Single Phase/60Hz		97.23	13780.56			Forward	Yes
	60	128.25	230/Single Phase/60Hz		184.75	22768.59			Forward	Yes
	80	167.38	230/Single Phase/60Hz		344.35	29970.32			Forward	Yes
	100	214.00	230/Single Phase/60Hz		661.17	39005.58			Forward	Yes
10	20	32.23	230/Single Phase/60Hz	6	69.06	8477.60	1.647	1.436	Forward	Yes
	40	64.82	230/Single Phase/60Hz		103.54	20695.64			Forward	Yes
	60	97.30	230/Single Phase/60Hz		200.95	32442.02			Forward	Yes
	80	129.95	230/Single Phase/60Hz		375.06	44077.91			Forward	Yes
	100	162.65	230/Single Phase/60Hz		688.61	55612.25			Forward	Yes
12	20	27.05	230/Single Phase/60Hz	6	68.26	12956.69	1.76	1.367	Forward	Yes
	40	54.63	230/Single Phase/60Hz		111.47	30019.37			Forward	Yes
	60	81.94	230/Single Phase/60Hz		240.32	47198.02			Forward	Yes
	80	109.36	230/Single Phase/60Hz		477.71	63377.46			Forward	Yes
	100	136.87	230/Single Phase/60Hz		889.52	79055.80			Forward	Yes
14	20	21.59	230/Single Phase/60Hz	6	50.99	16023.30	1.96	1.331	Forward	Yes
	40	43.47	230/Single Phase/60Hz		98.58	36569.91			Forward	Yes
	60	65.66	230/Single Phase/60Hz		226.68	58025.87			Forward	Yes
	80	87.52	230/Single Phase/60Hz		472.20	77455.51			Forward	Yes
	100	109.58	230/Single Phase/60Hz		908.10	97873.89			Forward	Yes
16	20	17.80	230/Single Phase/60Hz	6	49.34	18870.16	2.032	1.292	Forward	Yes
	40	35.75	230/Single Phase/60Hz		94.09	42973.29			Forward	Yes
	60	53.36	230/Single Phase/60Hz		210.73	66806.65			Forward	Yes
	80	71.69	230/Single Phase/60Hz		462.26	91449.32			Forward	Yes
	100	89.26	230/Single Phase/60Hz		871.52	114049.80			Forward	Yes
18	20	14.42	230/Single Phase/60Hz	6	46.39	22125.65	2.186	1.304	Forward	Yes
	40	29.25	230/Single Phase/60Hz		86.49	49060.62			Forward	Yes
	60	43.93	230/Single Phase/60Hz		187.48	74900.72			Forward	Yes
	80	58.94	230/Single Phase/60Hz		402.77	101555.50			Forward	Yes
	100	73.85	230/Single Phase/60Hz		779.19	127920.43			Forward	Yes
20	20	15.27	230/Single Phase/60Hz	6	54.97	31432.69	2.198	1.461	Forward	Yes
	40	30.60	230/Single Phase/60Hz		113.29	69150.50			Forward	Yes
	60	46.20	230/Single Phase/60Hz		269.65	107411.62			Forward	Yes
	80	61.68	230/Single Phase/60Hz		586.69	144791.31			Forward	Yes
	100	77.05	230/Single Phase/60Hz		1129.06	181491.26			Forward	Yes
24	20	11.37	230/Single Phase/60Hz	6	53.28	38712.43	2.237	1.327	Forward	Yes
	40	23.21	230/Single Phase/60Hz		113.11	86188.37			Forward	Yes
	60	34.44	230/Single Phase/60Hz		284.38	133916.39			Forward	Yes
	80	47.32	230/Single Phase/60Hz		626.26	183273.67			Forward	Yes
	100	59.32	230/Single Phase/60Hz		1248.07	231681.21			Forward	Yes

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