

The AVDX boasts a bullet-proof, industrial-grade, direct drive motor/controller platform more powerful and far superior than any fan before. The AVDX is a true workhorse that can endure the harshest industrial environments without breaking a sweat, while the silent operation and sleek design features make it an excellent choice for even the chickest of spaces.



STANDARD FEATURES:

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



Intertek
Conforms to UL Std 507
Certified to CSA Std C22.2 No. 113

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: VOLTAGE/PHASE

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

Item #	Options	Qty
60-50135-00	AVDX Universal Mount: I-beam Hardware Kit (Standard)	
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: 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	
30-90315-00	Local Override Remote (requires AirLynk-BacNet)	
30-04030-02	Dual Control Enabled Controller 30 (requires AirLynk-BacNet)	

*Motor unit only

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.

Do you have a custom color in mind? Custom powder coating is available for all our blades, mounts and drop lengths.

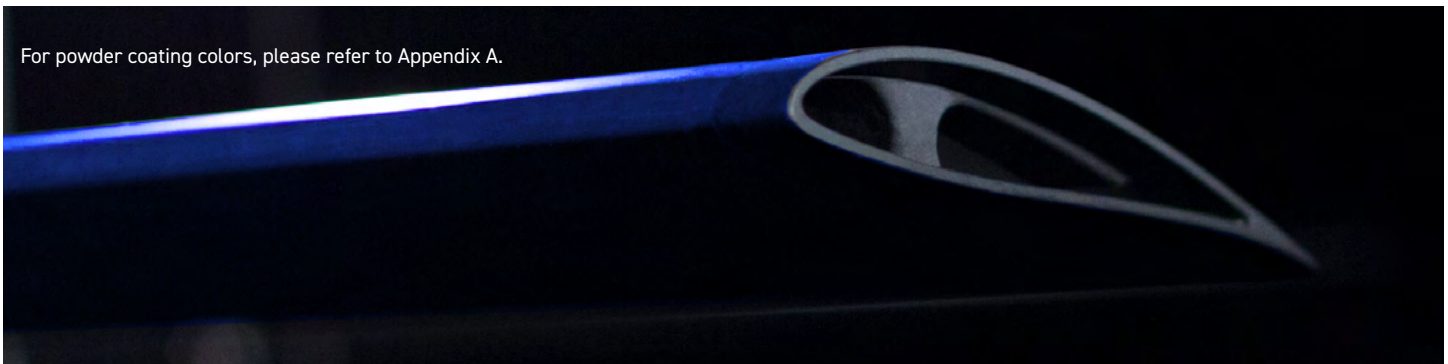
OPTIONAL: POWDER COATING

Item #	Diameter	Estimated Lead Time	Qty
60-10008-02	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	
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For 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

Max Speed	214 RPM	163 RPM	137 RPM	110 RPM	90 RPM	74 RPM	75 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 ft ² [372 m ²]	6,600 ft ² [613 m ²]	8,800 ft ² [818 m ²]	11,000 ft ² [929 m ²]	13,000 ft ² [1,115 m ²]	15,000 ft ² [1,301 m ²]	20,000 ft ² [1,673 m ²]	22,000 ft ² [1,858 m ²]
Sound Level dBA at Max Speed**	61	59	60	56	53	53	57	56
Carrier/Switching Frequency**	16Hz							

HANGING REQUIREMENTS

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

208-240V Single Phase	5.8A	7.2A	9.4A	9A	8.7A	8.4A	10.5A	13A
208-240V Three Phase	3.6A	4A	5.1A	5.8A	6.1A	5A	6.2A	8.7A
400-480V Three Phase	1.3A	1.6A	1.9A	2A	2A	2A	2.5A	3A

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 are available in 1ft increments; all drop lengths with Universal Mounting Hardware require 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							

*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. For more information on fan selection with regard to decible level and carrier frequency, please see page XXXX.

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