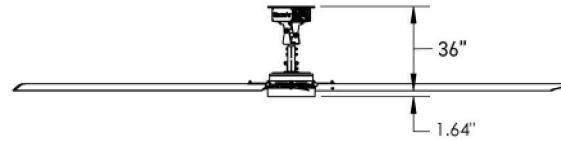


The three-blade design of the AVD3 reduces weight, friction, and raw materials, which in turn minimizes the strain on the building, your energy consumption, and your budget. But can three blades do the job? Yes! Just like a wind turbine, we designed the AVD3 to be the optimal balance between weight,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



STANDARD FEATURES

- Direct Drive motor
- 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, Universal Mount with guy wires, blade retainer links



STEP 1: POWER UNIT

| Item # | Options | Qty |
|--------------|--|-----|
| M300-0025-MA | 8-14 ft AVD3 Power Unit, .75 HP Equivalent | |
| M300-0035-MA | 16-24 ft AVD3 Power Unit, 1 HP Equivalent | |

STEP 2: BLADES

| Item # | Diameter | Qty |
|-------------|----------------|-----|
| 60-30008-00 | 8 ft / 2.44 m | |
| 60-30010-00 | 10 ft / 3.05 m | |
| 60-30012-00 | 12 ft / 3.66 m | |
| 60-30014-00 | 14 ft / 4.27 m | |
| 60-30016-00 | 16 ft / 4.88 m | |
| 60-30018-00 | 18 ft / 5.49 m | |
| 60-30020-00 | 20 ft / 6.10 m | |
| 60-30024-00 | 24 ft / 7.32 m | |

STEP 3: VOLTAGE/PHASE

| Item # | Options | Qty |
|-------------|---|-----|
| 33-21010-00 | 208-240V Single Phase, 50/60 Hz AVD3 DROP ENCL (for use with Universal Mount) | |
| 33-21030-00 | 208-240V Three Phase, 50/60 Hz AVD3 DROP ENCL (for use with Universal Mount) | |
| 33-41030-00 | 480V Three Phase, 50/60 Hz AVD3 DROP ENCL (for use with Universal Mount) | |
| 35-21010-00 | 208-240V Single Phase, 50/60 Hz AVD3 SCHNEIDER CONT PNL (for use with Rapid Mount Industrial) | |
| 35-21030-00 | 208-240V Three Phase, 50/60 Hz AVD3 SCHNEIDER CONT PNL (for use with Rapid Mount Industrial) | |
| 35-41030-00 | 480V Three Phase, 50/60 Hz AVD3 SCHNEIDER CONT PNL (for use with Rapid Mount Industrial) | |

STEP 4: MOUNTING

| 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) | |

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 | |
| 30-04030-00 | Controller 30 | |
| 30-10012-00 | AirLynk - BacNet | |
| 30-10011-00 | AirLynk - LonWorks | |
| 30-04030-02 | Dual Control Enabled Controller 30 (requires AirLynk-BacNet) | |

*Motor unit only, consult with a MacroAir sales specialist for best practice

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 AVD3. 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.

AirVolution-D3 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.

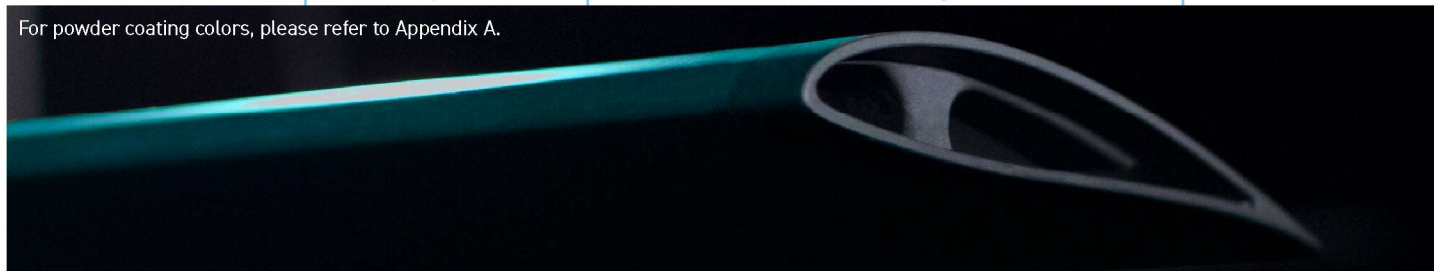
For custom drop lengths, order a length longer and MacroAir will cut it down to the requested length. Estimated lead time is 10 business days.

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

OPTIONAL: POWDER COATING

| Item # | 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.



ADDITIONAL OPTIONS

| Item # | Description | Qty |
|-------------|----------------------|-----|
| 10-60200-00 | AVD Fuse Disconnect* | |

*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 | 3 | | | | | | | |
| PERFORMANCE | | | | | | | | |
| Max Speed | 178 RPM | 170 RPM | 135 RPM | 100 RPM | 98 RPM | 83 RPM | 65 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 ft ² [385 m ²] | 5,200 ft ² [483 m ²] | 6,700 ft ² [622 m ²] | 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 |
| Carrier/Switching Frequency** | 16,000Hz | | | | | | | |
| 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] | 147.1 lbs [66.72 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 | 3A | 3.1A | 2.3A |
| 208-240V Three Phase | 0.8A | 1.3A | 1.6A | 1.7A | 1.7A | 1.7A | 1.7A | 1.2A |
| 480V Three Phase | 0.6A | 0.9A | 1.0A | 1.0A | 1.0A | 1.0A | 1.0A | 0.7A |
| 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 Rapid Mount Industrial | | | | | | | |
| RATINGS AND COMPLIANCE | | | | | | | | |
| Fire and Sprinkler | NFPA Compliant | | | | | | | |
| Outdoor Rating*** | Rated for outdoor use | | | | | | | |
| Certifications | Pending | | | | | | | |

*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 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, control panel and accessories.