ROTRON / AMETEK®
AEROSPACE & DEFENSE

Rotron MAXIAX® 8.00
Large Vaneaxial Fans

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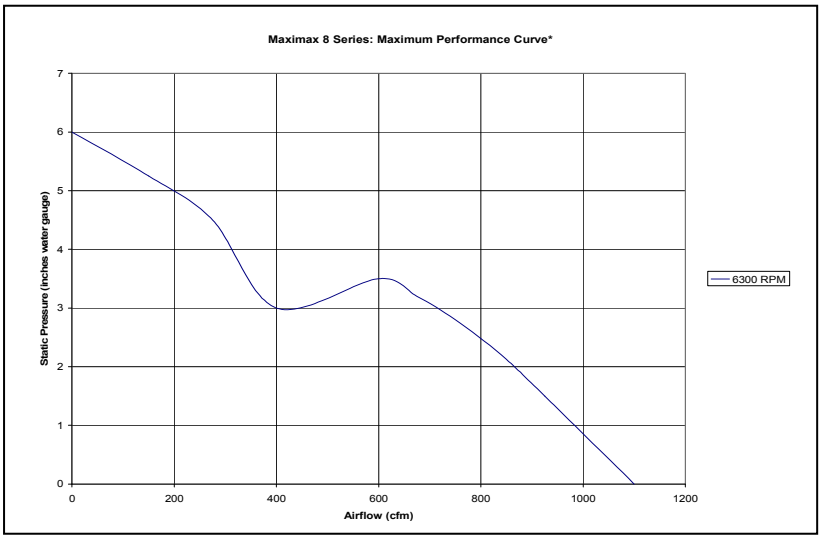
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General Large Vaneaxial Information

MAXIAX® fans provide relatively high flows against high impedance in a compact axial flow package. They operate at high rotational speeds, typically with 400 Hz motors or internal ECDC brushless motors. MAXIAX® fans are extremely efficient and highly customizable, allowing for precise airflow design. MAXIAX® fans are typically utilized to cool airborne radar and other devices with high power transmitters. They are also employed as evaporator/condenser fans in environmental controls systems and to duct air to various aircraft avionics bays, cockpit displays and cabin compartments. MAXIAX® fans are also used extensively in general aviation aircraft, military vehicles and shelters and shipboard applications. They come in a variety of voltages and frequencies and are available with lead wires, terminal blocks and MS connectors. Most units are available with an optional internal Fan Performance Sensor (FPS) or an internal or external Low Speed Warning Device (LSWD).

Rotron MAXIAX® 8.00





General Large Vaneaxial Information

- Physical envelope: 8.00" diameter, 4.40 to 7.30" lengths [1]
- Weight: 6.28 to 7.00 lbs.
- Specially designed for avionics/equipment cooling and environmental control systems.
- Speeds as high as 6,100 RPM.
- Airflow as high as 1105 CFM.
- Functional Static Pressures: as high as 3.5 IWG.

1. See specific part-number drawing for complete product dimensions

Materials and Finishes

- All aluminum components finished with a chemical conversion coating per MIL-C-5541, top coat of lusterless black enamel, color #37038, per Federal Standard 595 conforming to TT-E-489 Type B.
- Corrosion-resistant stainless steel shaft and hardware.
- Impeller runs on two high-precision, double-shielded, stainless steel ball bearings (ABEC Class 5) for a long, maintenance-free life.
- Motors have stator winding insulation which is rated for continuous duty for either Class F or Class H.

Options/Accessories

- Flanges
- Beads
- Check Valves
- Custom Designs Available
- Integral EMI filter
- LSWD (Low Speed Warning Device)
- FPS (Fan Performance Sensor

AC Line Powered Units [1]

- 3-phase and 1-phase permanent-split capacitor motor designs.
- Fixed speeds (performance) based on input frequency.
- Meets or exceeds the requirements of MIL-B-23071 and other applicable U.S. military and commercial aerospace specifications [2]
- Max free delivery airflow of 970 CFM at 400 Hz.
- Ambient temperature range: -54°C to 100°C.
- Acoustic levels as low as 63 dBA

DC Line Powered Units – E.C.D.C.® [1]

- Brushless permanent magnet design (Electronically Commutated DC).
- Speed (performance) fixed by input voltage.
- Meets or exceeds the requirements of MIL-B-28873 and other applicable U.S. military and commercial aerospace specifications [2]
- Max free delivery airflow of 1105 CFM.
- Ambient temperature range: -40°C to 85°C.
- Acoustic levels as low as 63 dBA.
- Standard 24 and 28 volt designs.

[1] Airflow, maximum ambient and acoustic levels will vary depending on design parameters

[2] Please call for further information concerning applicable U.S. military and commercial aerospace specifications

Optional DC-AC Inverters and AC-AC Converters for AC Powered Models[1]

BATAC® Inverter Driven Units

- AC square wave fans driven from a DC power source through a BATAC® Inverter.
- Low cost alternative when multiple fans are used in a single application or area.
- Allows for greater than 100 VDC input voltage.

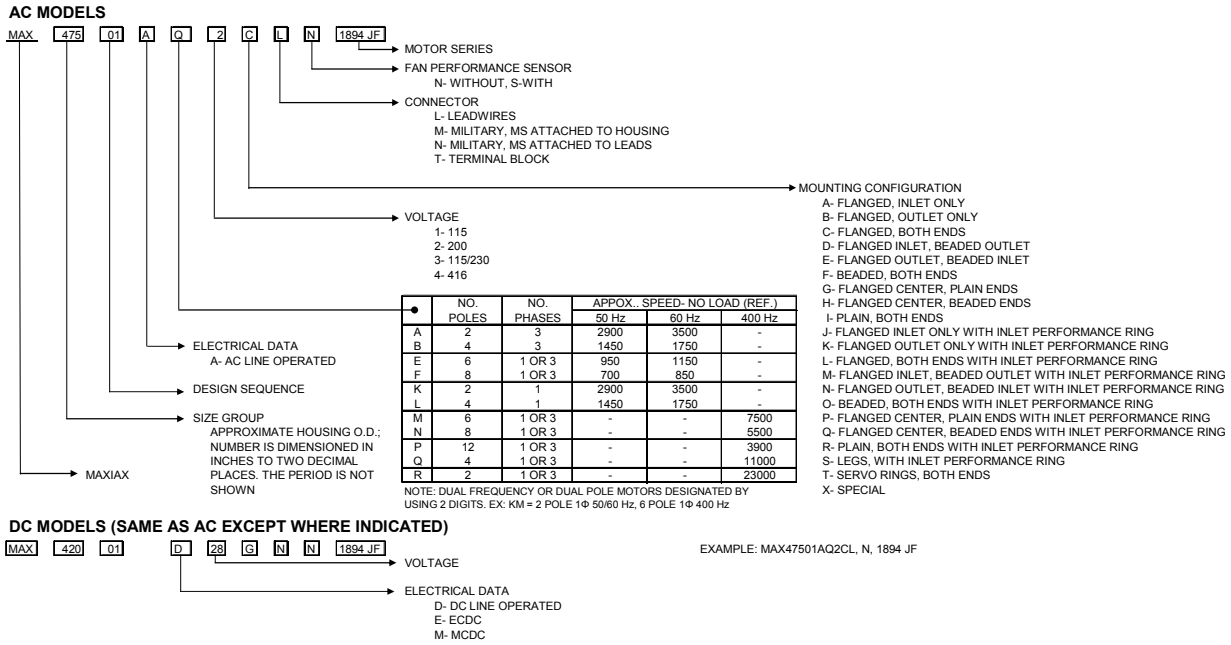
[1] See Accessories: Power Conversion

DELTAC® Converter Driven Units

- DELTAC® converters allow high frequency (typically 400 Hz) fans to be driven by variable frequency (typically 360-800 Hz) power or low frequency 50/60 Hz power to obtain the higher frequency performance.

Unit Description Key

The unit description key is for reference only and should not be confused with a part number. While most units are custom configurations, not all variations of the key shown below are possible. Please contact the Application Engineering department for more information regarding possible custom configurations.



	NO. POLES	NO. PHASES	APPOX.. SPEED- NO LOAD (REF.) 50 Hz	60 Hz	400 Hz
A	2	3	2900	3500	-
B	4	3	1450	1750	-
E	6	1 OR 3	950	1150	-
F	8	1 OR 3	700	850	-
K	2	1	2900	3500	-
L	4	1	1450	1750	-
M	6	1 OR 3	-	-	7500
N	8	1 OR 3	-	-	5500
P	12	1 OR 3	-	-	3900
Q	4	1 OR 3	-	-	11000
R	2	1 OR 3	-	-	23000

Ordering Information

When ordering, please specify the specific Rotron part number listed on the following model table. Further ordering information, based on the configuration and motor series,may be obtained by contacting customer service. Please refer to the Unit Description Key explanation above.

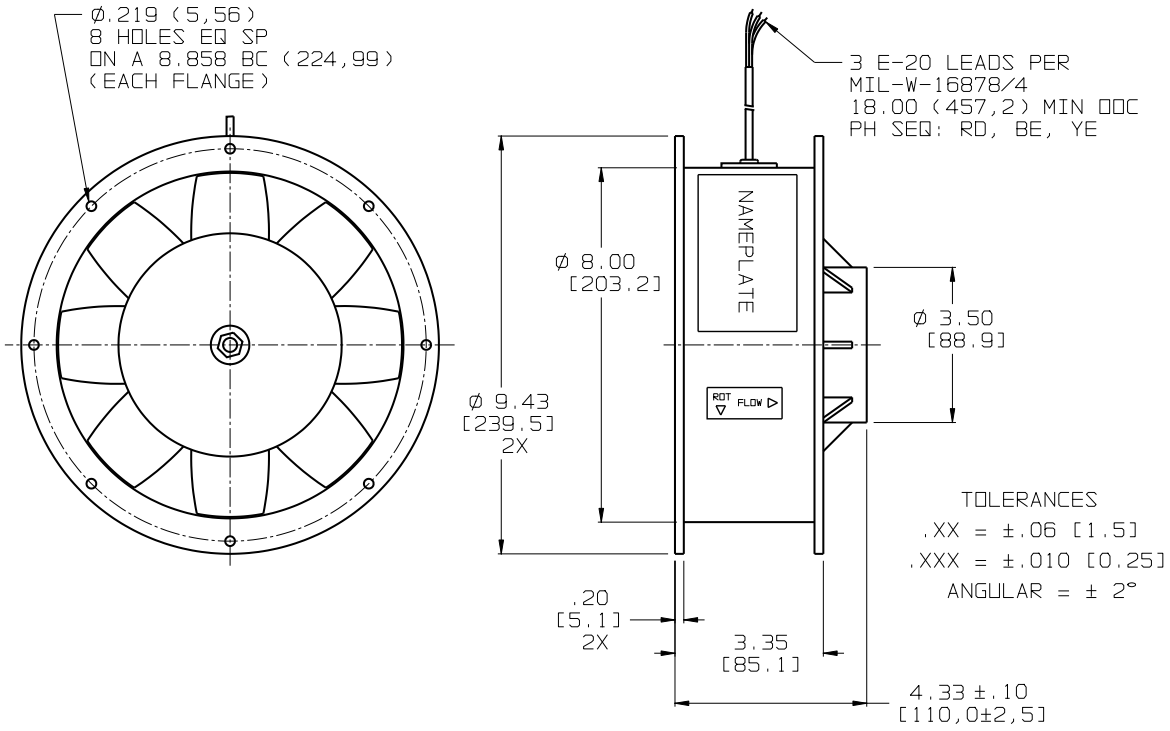
Standard Product Offering of AC Line Powered Models

Part #	Prod. Desc.	Flow (CFM)	Max Pressure (IWG)	Nom. RPM	Nom. Watts	Line Amps (A)	Max Amb (C)	Weight	Volts	Phase	Hz	Capacitor	Airflow Source Data	Features
035635000	MAX80001 3387JH	970	4.8	5500	432	2.6	100	8.0	200	3	400	N/A	A478-21A	LEADS
035636000	MAX80001 3389WH	759	3.0	4330	300	2.1	100	8.0	200	3	400	N/A	A487-30	LEADS
035637000	MAX80001 3269AH	616	2.1	3610	228	1.9	100	8.0	115	1	400	5.7/330	A456-18	LEADS
035682000	MAX80001 3418JH	591	1.9	3400	102	0.8	100	8.0	115	3	60	N/A	A488-4	LEADS
035991000	MAX80001 3681JF	606	1.8	3430	87	0.3	100	8.0	400	3	60	N/A	A690-16A	LEADS

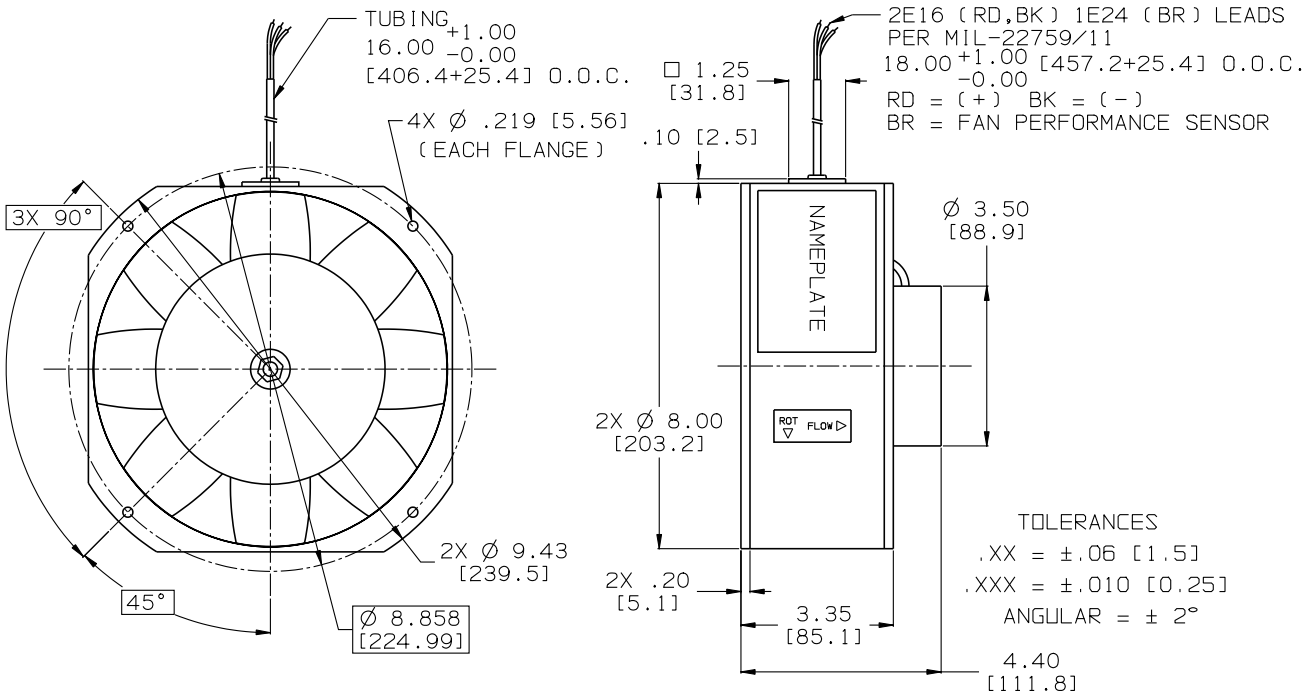
Standard Product Offering of DC Line Powered Models

Part #	Prod. Desc.	Flow (CFM)	Max Pressure (IWG)	Nom. RPM	Nom. Watts	Line Amps (A)	Max Amb (C)	Weight	Volts	Airflow Source Data	Features
011646000	MAX80002 3498SF	958	4.6	5400	255	9.5	72	6.3	28	A538-1	LEADS, FPS
011679000	MAX80001 3428SF	1007	4.9	5700	413	14.0	85	8.0	28	A490-9	LEADS, FPS
011694000	MAX80001 3494RF	1105	5.9	6100	464	16.0	85	7.0	28	A504-11	LEADS
011725000	MAX80001 3498SF	958	4.6	5000	319	10.0	72	8.0	28	A513-21	LEADS, FPS

MAXIAX 80001 - AC



MAXIAX 80001 - DC



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Specifications subject to change without notice