ROTRON / AMETEK®

AEROSPACE & DEFENSE

Rotron MAXIAX® 9.25

Large Vaneaxial Fans

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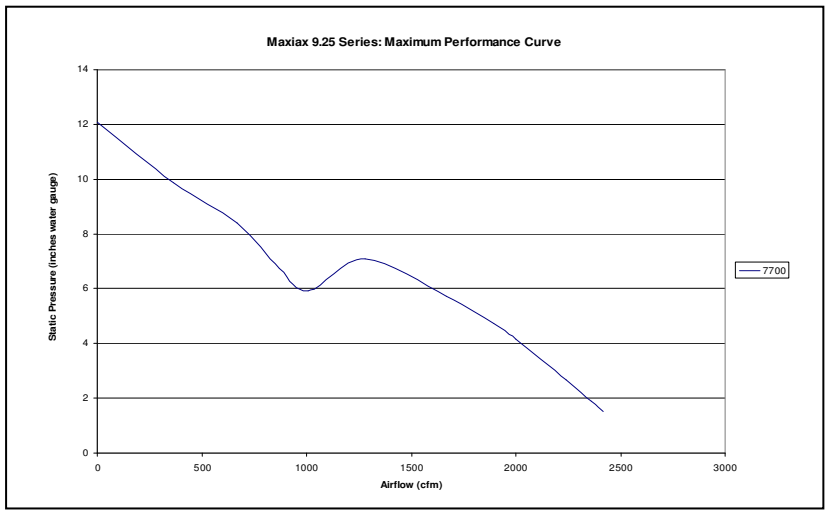
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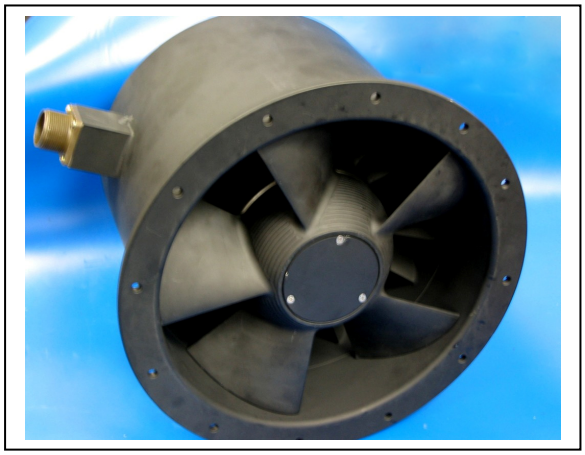
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General Large Vaneaxial Information

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® 9.25





General Large Vaneaxial Information

- Physical envelope: 9.25" diameter, 8.00" length [1]
- Weight: 20.0 lbs.
- Machined aluminum venturi housing and propeller
- Specially designed for avionics/equipment cooling and environmental control systems [2]
- Speed max 7,700 RPM
- Airflow max 2,420 CFM
- Functional Static Pressures: 12.6 IWG
- Thermally Protected

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 use Class H insulation for continuous high temp operational capability

Options/Accessories

- Flanges
- Beads
- Check Valves
- Custom Designs Available
- 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 2,600 CFM at 400 Hz1
- Ambient temperature range: -54°C to 71°C1

DC Line Powered Units – E.C.D.C.® [1]

- Not available with this model at this time.

[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

AC-AC Converters for AC Powered Models[1]

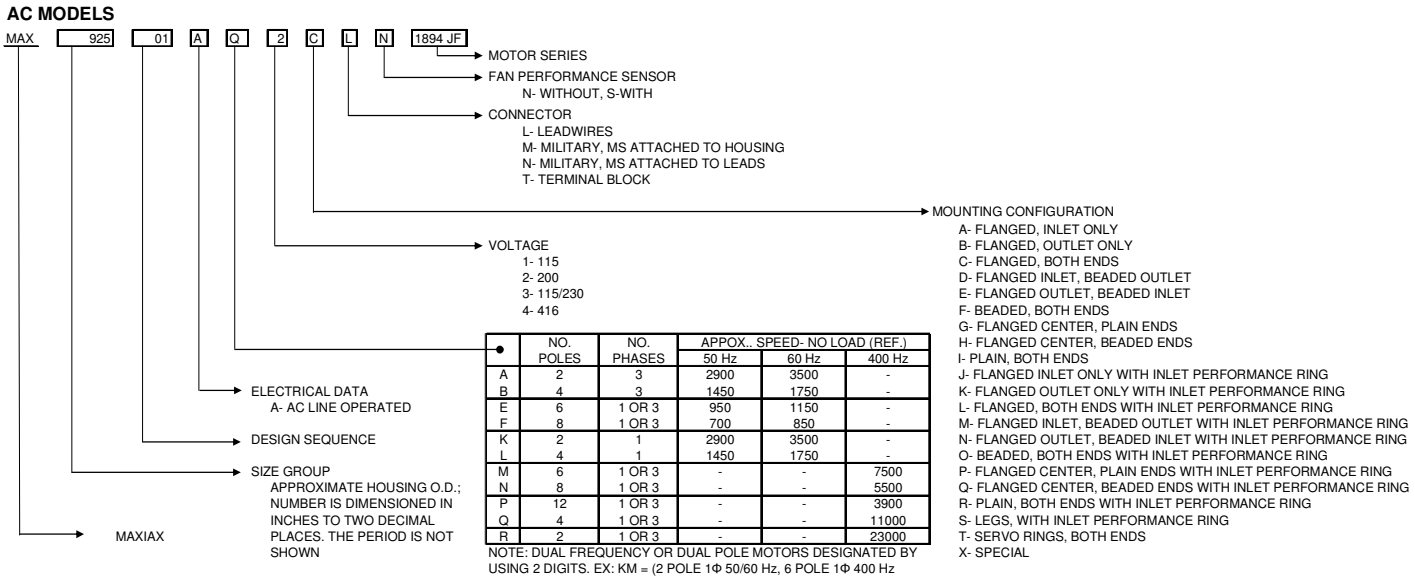
DELTAC® Converter Driven Units

- 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.

[1] See Accessories: Power Conversion

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

NOTE: DUAL FREQUENCY OR DUAL POLE MOTORS DESIGNATED BY USING 2 DIGITS. EX: KM = (2 POLE 1Φ 50/60 Hz, 6 POLE 1Φ 400 Hz

EXAMPLE: MAX92500AQ2AM, N, 3866J7

Ordering Information

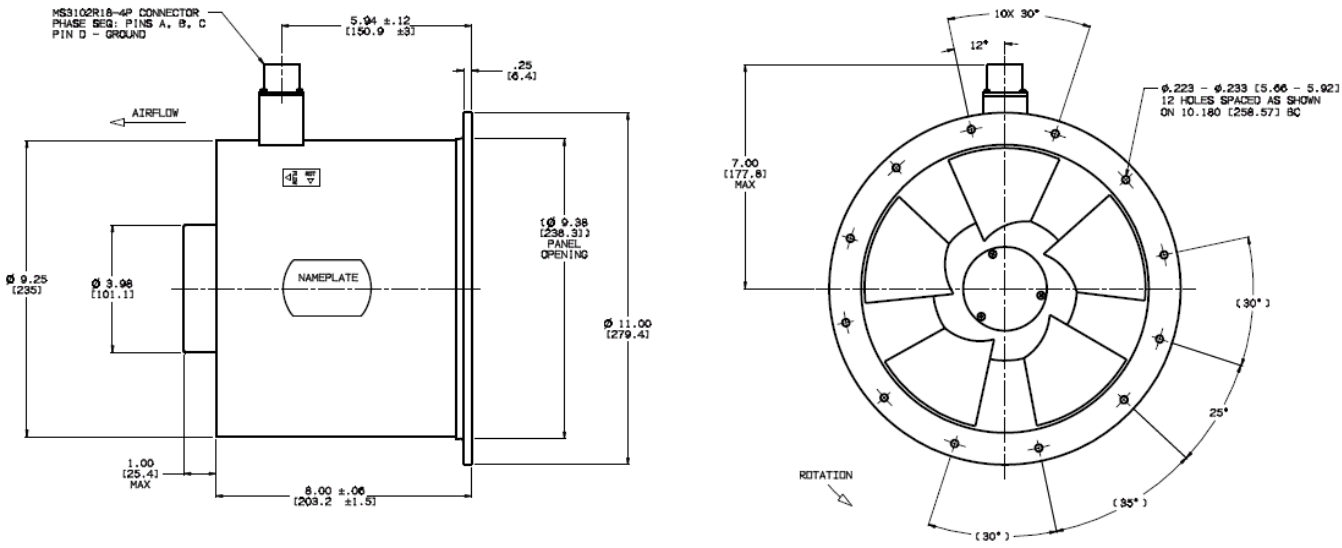
When ordering, please specify the specific Rotron part number listed on the following model table. Further ordering information, based on the configuration and motor series,may be obtained by contacting customer service. Please refer to the Unit Description Key explanation above.

Standard Product Offering of AC Line Powered Models

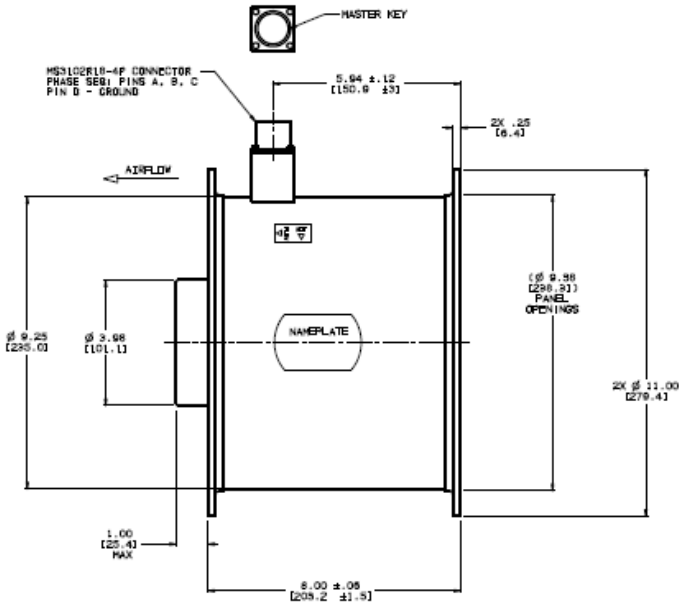
Part #	Product Description	Flow (CFM)	Max Pressure (IWG)	Nom. RPM	Nom. Watts	Line Amps (A)	Max Amb (°C)	Weight (lbs)	Volts	Phase	Hz	Capacitor	Airflow Source Data	Features
041457000	MAX92500 3866J7	2600	12.6	7700	1900	9.5	71	20	200	3	400	N/A	A771-17	Inlet Flange Only
041575000	MAX92500 3866J7	2600	12.6	7700	1900	9.5	71	20	200	3	400	N/A	A771-17	Inlet Flange and Outlet Flange

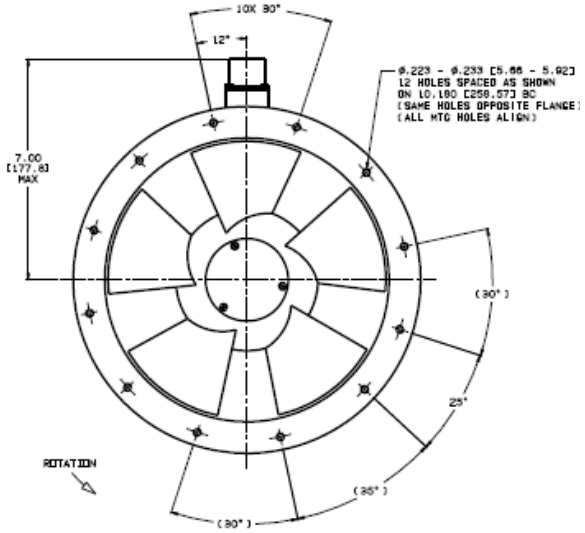
MAXIAX 925*

MAX92500AM2AM - 041457000



MAX92500AM2CM - 041575000





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Specifications subject to change without notice