



Rotron / Airscrew



Rotron NANOS II Small Vaneaxial Fans

General Small Vaneaxial Information

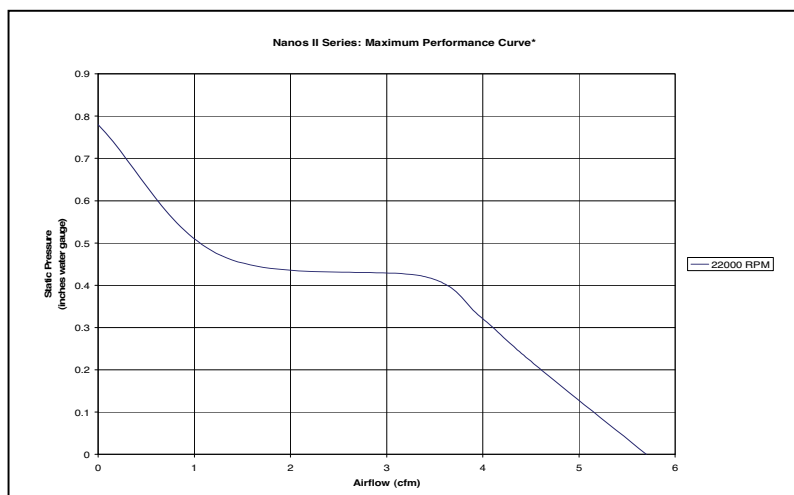
Small Vaneaxial Fans are compact, high-speed fans whose airflow is parallel to the motor shaft. The impeller and guide vanes are composed of airfoil construction for maximum aerodynamic efficiency and minimum acoustical noise.

These fans are designed for use in tightly packaged

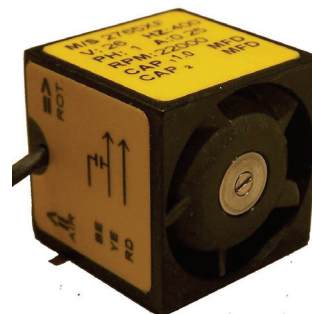
airborne “black boxes” where: size and weight must be held to an absolute minimum, reliability is critical, and high heat loads must be dissipated with cooling air.

Small Vaneaxial Fans come in a variety of voltages and frequencies and are available with lead wires, terminal blocks and MS connectors.

Rotron NANOS II



*Individual Performance Curve Characteristics Available Upon Request



General

- Physical envelope: 1.02" x 1.02" x 1.18"¹
- Weight: approximately 1 oz.
- Specially designed for spot cooling of electronics and optics
- Available in round case

Materials and Finishes

- All aluminum components finished with a black anodized coating per MIL-C-8625
- 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 Class F

¹ See specific part-number drawing for complete product dimensions

Options/Accessories

- Internal Fan Performance Sensor (FPS)
- External Low Speed Warning Device (LSWD)



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AC Line Powered Units¹

- 1-phase permanent-split capacitor motor design
- 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 specifications²
- Max free delivery airflow of 6 CFM at 400 Hz
- Ambient temperature range: -54°C to 80°C
- Acoustic levels as low as 48 dBA

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

DC Line Powered Units – E.C.D.C.[®]

- Not available with this model fan

Optional DC-AC Inverters and AC-AC Converters for AC Powered Models¹

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

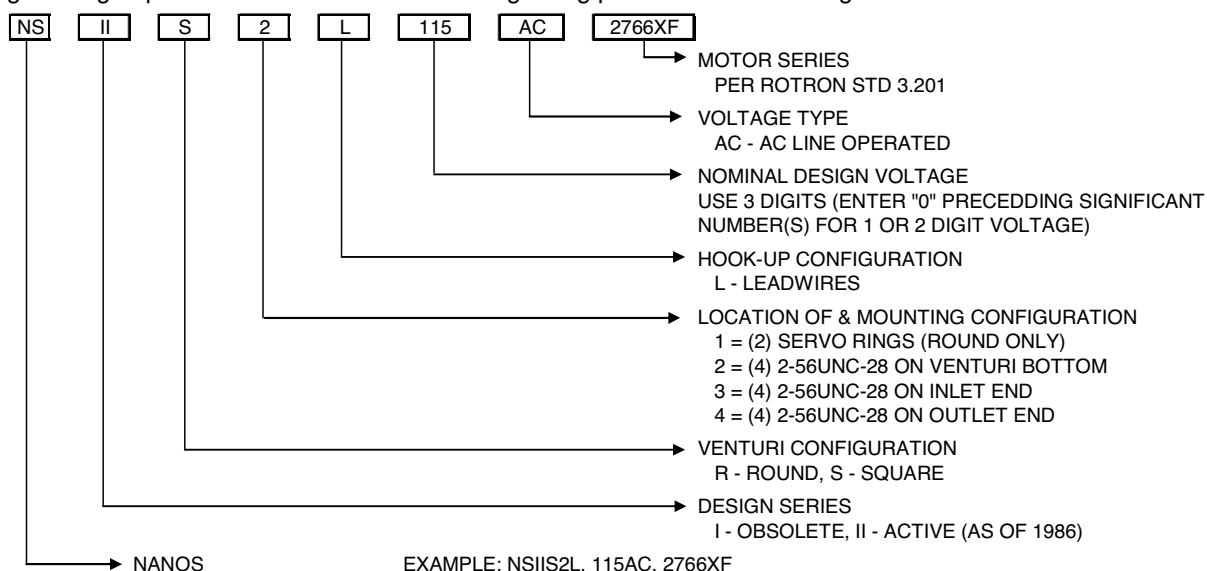
¹ See Accessories: Power Conversion

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.



EXAMPLE: NSIIS2L, 115AC, 2766XF

* "X" IN ANY POSITION DENOTES SPECIAL FOR THAT FEATURE

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.



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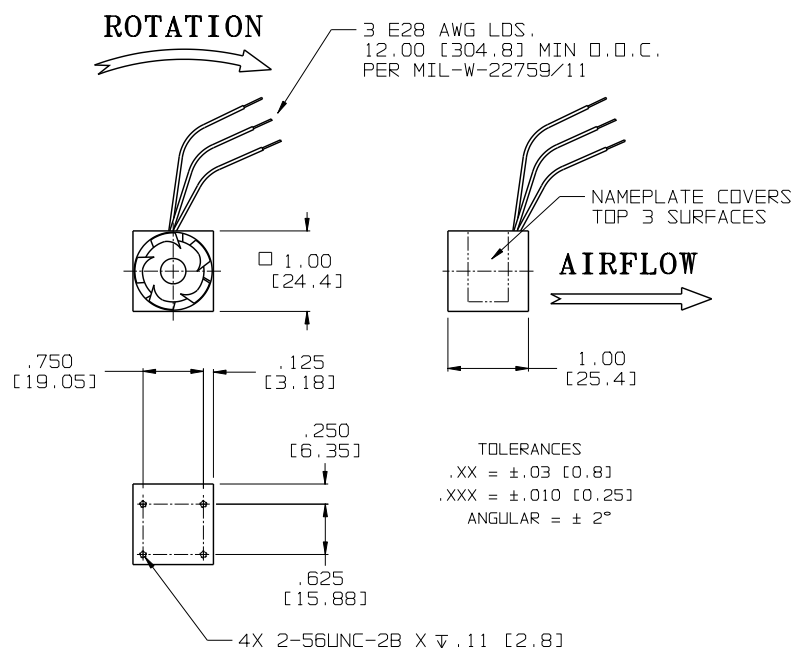


Standard Product Offering of AC Line Powered Models

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
035108000	NSII S2L 2765XF	6	0.8	22000	6	0.3	80	0.1	26	1	400	1.0/100	A348-11	LEADS
034946000	NSII R1L 2904XF	6	1.0	21000	6	0.3	80	0.1	26	2	400	1.5/100	A540-22	LEADS
034833000	NSII S2L 2766XF	6	0.8	22000	7	0.3	80	0.1	115	1	400	1.0/100	A348-11A	LEADS

NANOS II – AC*

NSIIS2L



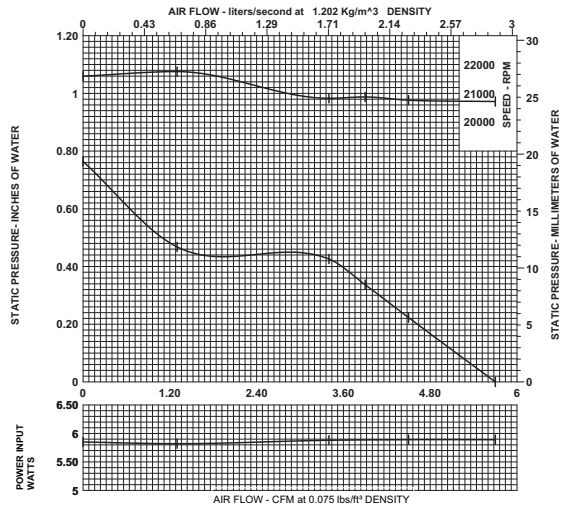
*Part Number Specific Drawings Available Upon Request



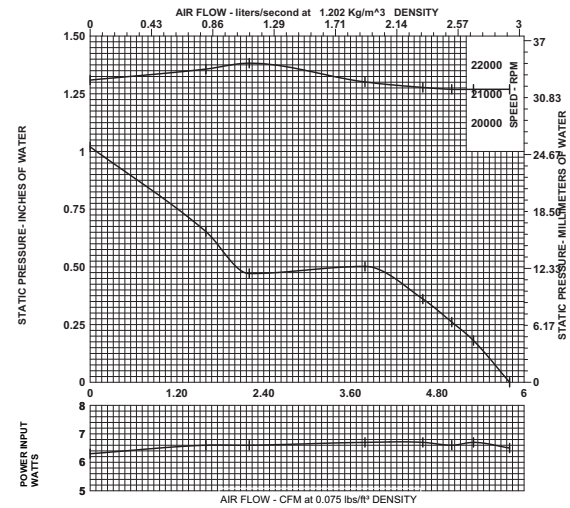
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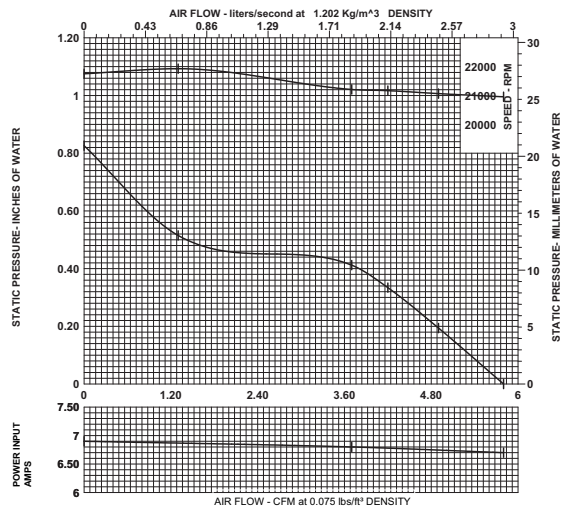
P/N 035108000 NSII S2L 2765XF A348-11



P/N 034946000 NSII R1L 2904XF A540-22



P/N 034833000 NSII S2L 2766XF A348-11A



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