

INVERTED BLOWERS



NOTES:

Specifications subject to change without notice

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T: +1 845-679-1361
F: +1 845-679-1870

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F: +44 (0) 1932 761098

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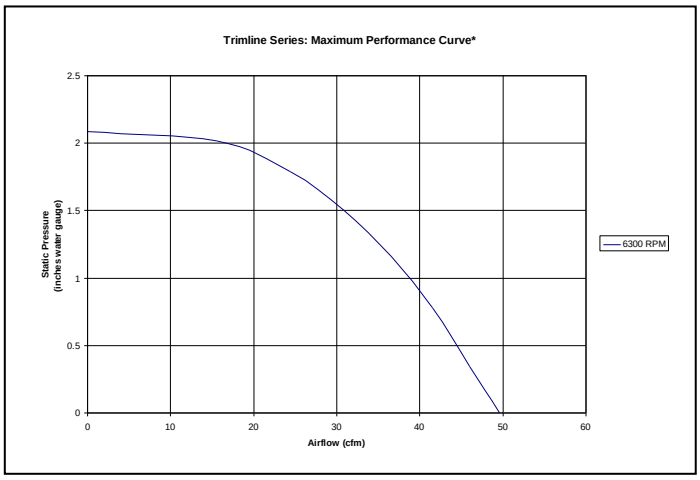
Rotron Trimline and ½ Trimline Inverted Blowers

General Inverted Blower Information

Rotron Inverted blowers are compact, sturdy, light weight and designed for a long, maintenance-free life. Inverted blowers have their driving motor located inside the squirrel cage wheel. This results in exceptional compactness and excellent motor cooling.

Inverted Blowers come in a variety of voltages and frequencies. Most units are available with an optional internal Fan Performance Sensor (FPS) or external Low Speed Warning Device (LSWD). Units are available in standard and reduced size.

Rotron Trimline





*Individual Performance Curve Characteristics Available Upon Request

General

- Physical envelope: 4.75” x 4.75” x 1.60” (Trimline)[1]
  3.90” x 4.75” x 1.60” (1/2 Trimline)[1]
- Weight: 1.4 lbs (Trimline) and 1 lbs (1/2 Trimline)
- Suitable for operation in severe environmental conditions in ground, shipboard and airborne applications[2]
- Speeds range between 2,700 and 6,300 RPM
- Airflows range from 21 to 49 CFM
- Maximum Static Pressure: 2.4 IWG

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 either Class F or Class H insulation for continuous high temp. operational capability

[1] See specific part-number drawing for complete product dimensions

[2] Please contact the Application Engineering Department for further information

Options/Accessories

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

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AC Line Powered Units

- 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
- Max free delivery airflow of 21 CFM at 50 Hz, 25 CFM at 60 Hz, and 40 CFM at 400 Hz[1]
- Ambient temperature range: -54°C to 100°C[1] [125]
- Acoustic levels as low as 51.1 dBA[1]

DC Line Powered Units – E.C.D.C.®

- 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 49 CFM[1]
- Ambient temperature range: –40°C to 85°C[1]
- Acoustic levels as low as 51.1 dBA[1]

[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

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.

TRM | L | 115 | AC | N | 682 YF

- 682 YF → MOTOR SERIES
  PER ROTRON STD 3.201
- N → FAN PERFORMANCE SENSOR
  N- WITHOUT, S- WITH
- AC → VOLTAGE TYPE
  AC- AC LINE OPERATED
  ECDC- ELECTRONICALLY COMMUTATED DC LINE OPERATED
- 115 → NOMINAL DESIGN VOLTAGE
  FOR AC OR DC FAN USE 3 DIGITS (ENTER "0" PRECEEDING SIGNIFICANT NUMBER(S) FOR 1 OR 2 DIGIT VOLTAGE)
- L → HOOK-UP CONFIGURATION
  L- LEADWIRES, T- TERMINAL BLOCK, M - MS CONNECTOR
  X - CUSTOM
- TRM → TRIMLINE
  1/2TRM = 1/2 TRIMLINE, REDUCED SIZE

EXAMPLE: TRML, 115 AC, N, 682 YF

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

Ordering Information

When ordering, please specify the specific Rotron part number listed on the model table below. 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

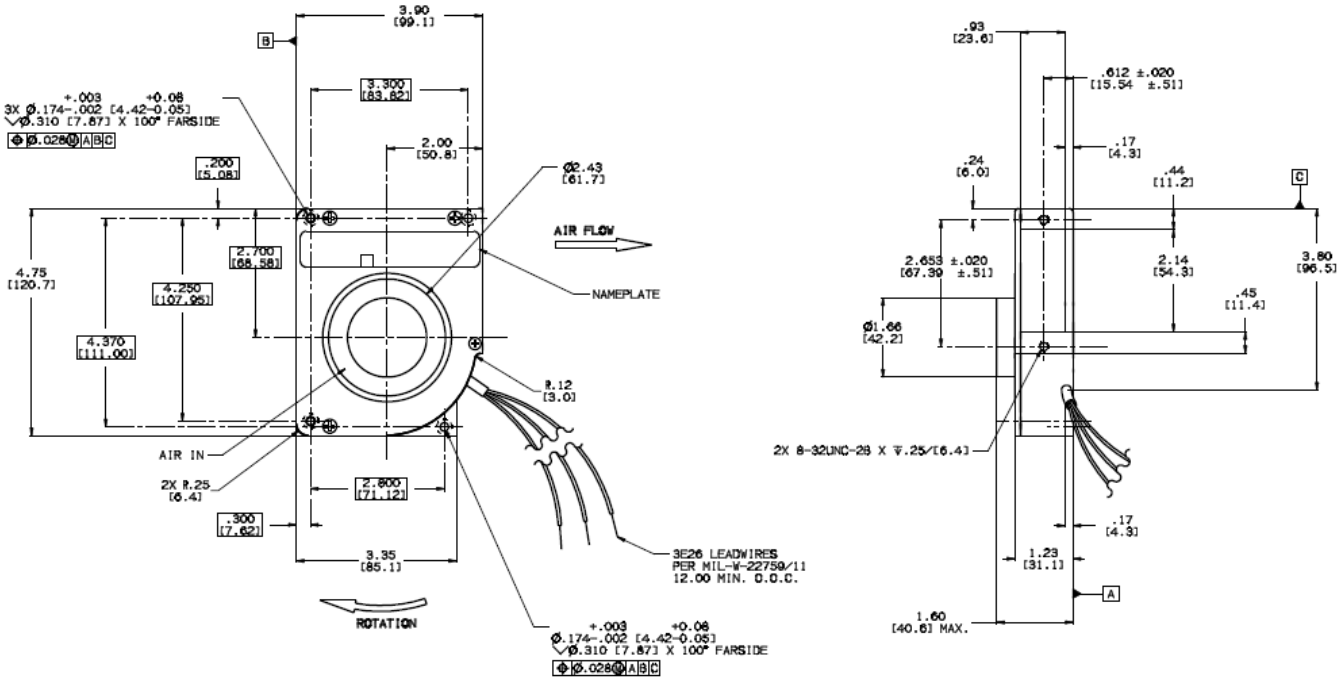
Part #	Product Description	Flow (CFM)	Max Pressure (IWG)	Nom. RPM	Nom. Watts	Line Amps (A)	Max Amb (°C)	Weight (lbs)	Volts	Phase	Hz	Capacitor	Airflow Source Data	Options
034730000	TRML 682YF	24	0.5	3,160	14	0.1	125	1.4	115	1	60	1.0/220	A347-6	LEADS
041520000	½TRML 1918JF	25	1.0	3,700	15	0.06	125	1	200	3	400	N/A	A819-9	LEADS
041358000	TRML 1395YF	40	2.4	5,240	45	0.39	90	1.4	115	1	400	0.5/220	A352-10	FPS, LEADS
034851000	TRML 1395YF	40	2.4	5,240	45	0.4	90	1.4	115	1	400	0.5/220	A352-10	LEADS

Standard Product Offering of DC Line Powered Models

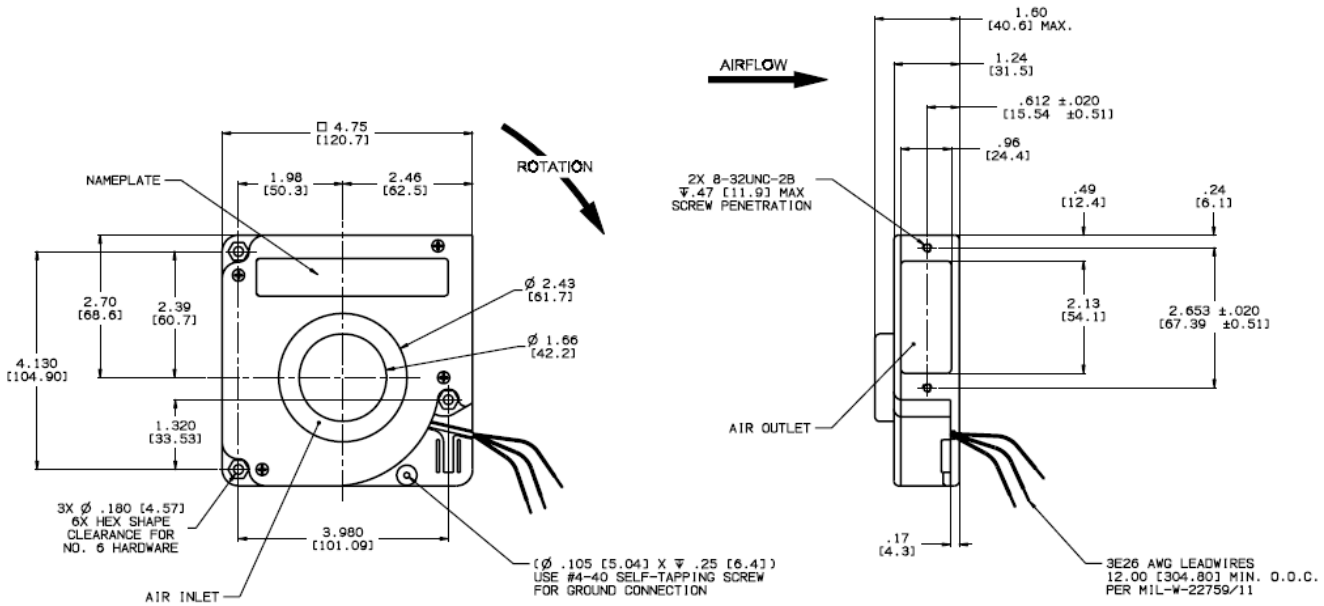
Part #	Product Description	Flow (CFM)	Max Pressure (IWG)	Nom. RPM	Nom. Watts	Line Amps (A)	Max Amb (°C)	Weight (lbs)	Volts	Airflow Source Data	Options
011199000	TRML 1943SF	26	0.8	3,270	12	0.3	100	1.3	26	A352-15	LEADS, FPS, GROUND SCREW
011225000	TRMT 1943SF	26	0.8	3,350	12	0.3	100	1.3	26	A352-15	TERMINALS, FPS, GROUND SCREW
011198000	TRML 1928SF	32	1.3	4,100	10	0.5	100	1.3	28	A791-19C	LEADS, FPS, GROUND SCREW
011840500	½TRML 1928SF	29	1.0	4,100	10	0.5	100	1	28	A571-14F	LEADS, FPS
011789000	½TRMX 1928SF	29	1.0	4,100	10	0.5	100	1	28	A571-14F	CONNECTOR, POTTED ELECTRONICS
012401000	TRML 3934SF	49	2.1	6,300	39.2	1.4	85	1.3	28	A829-7	LEADS, FPS, D-Arbor

Trimline and ½ Trimline – AC & DC*

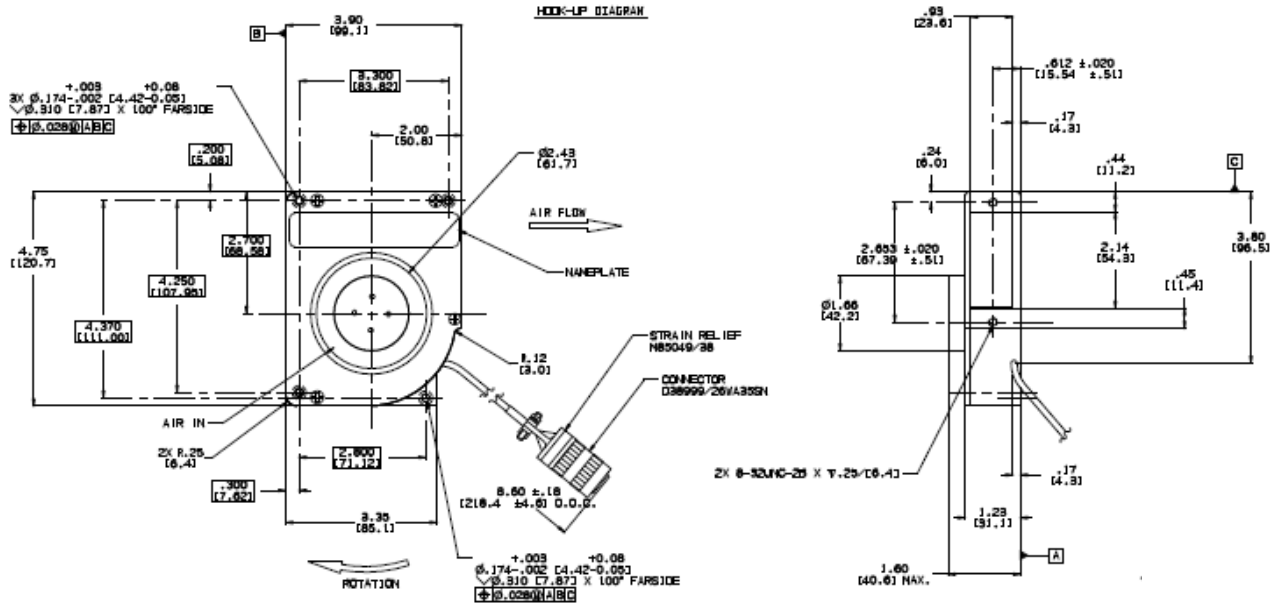
½TRMX AC



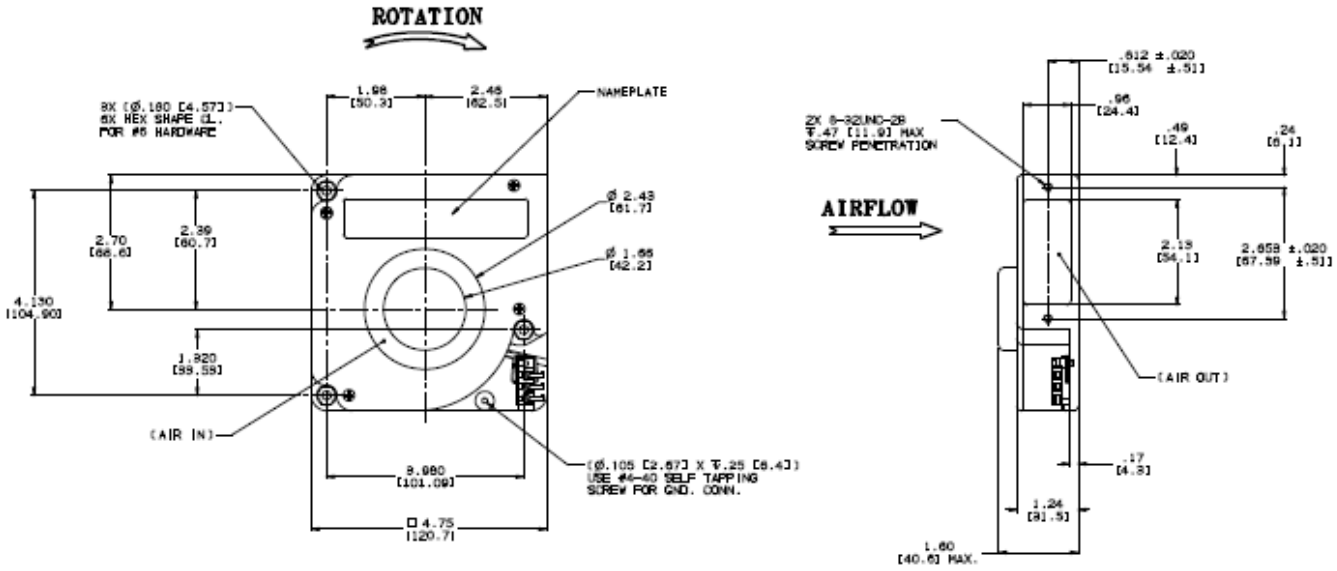
TRML AC



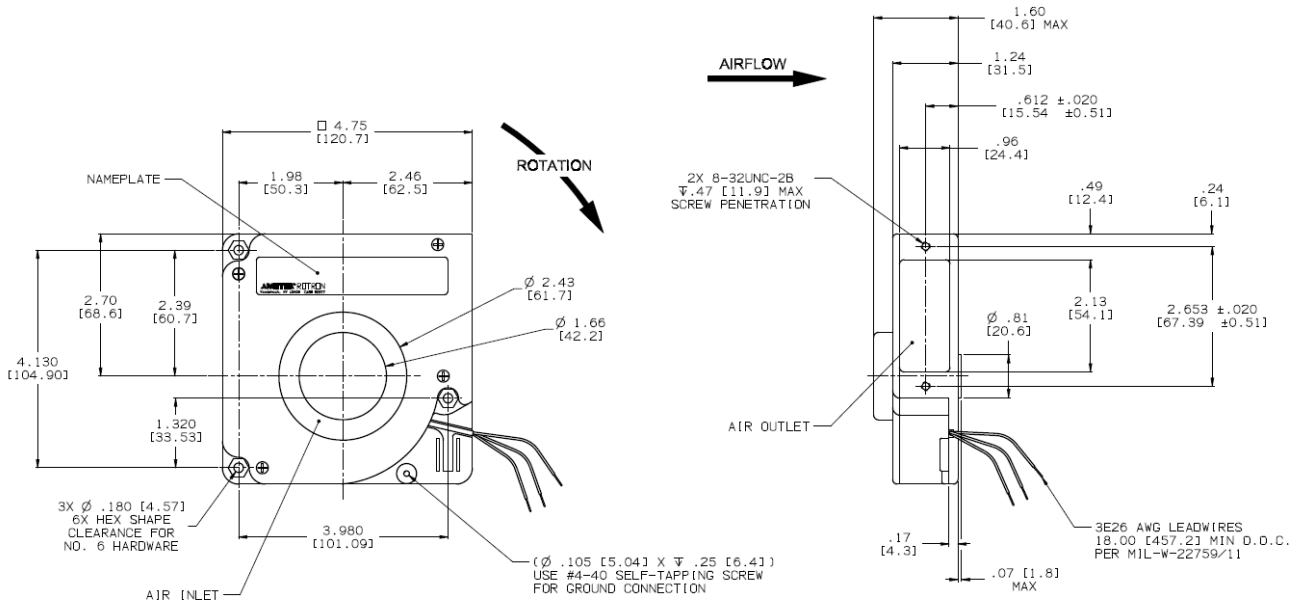
½TRMX DC



TRMT DC

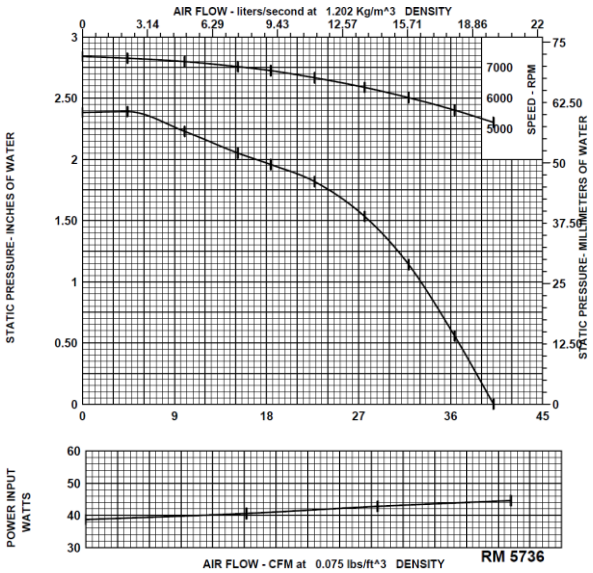


TRML DC

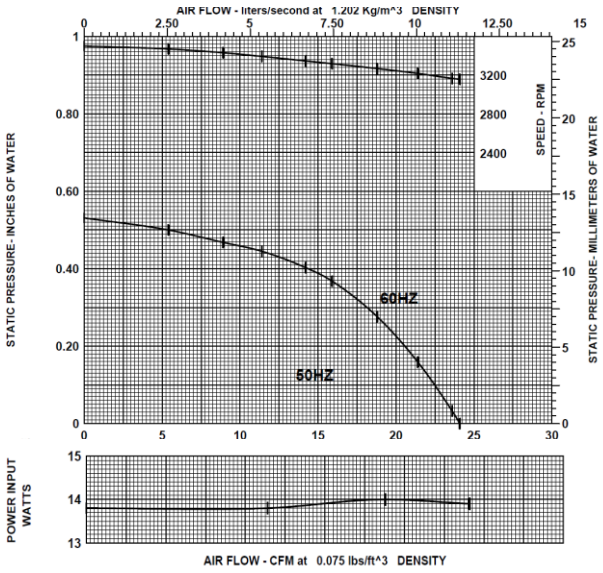


*Part Number Specific Drawings Available Upon Request

P/N 034851000 TRML 1395YF A352-10



P/N 034730000 TRML 682YF A8347-6



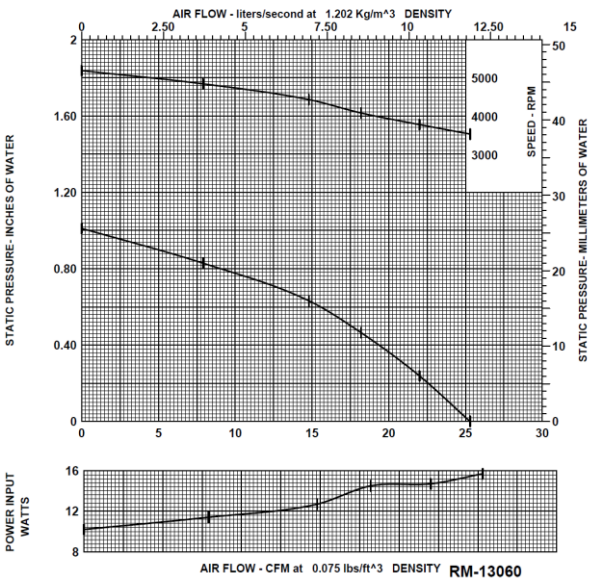
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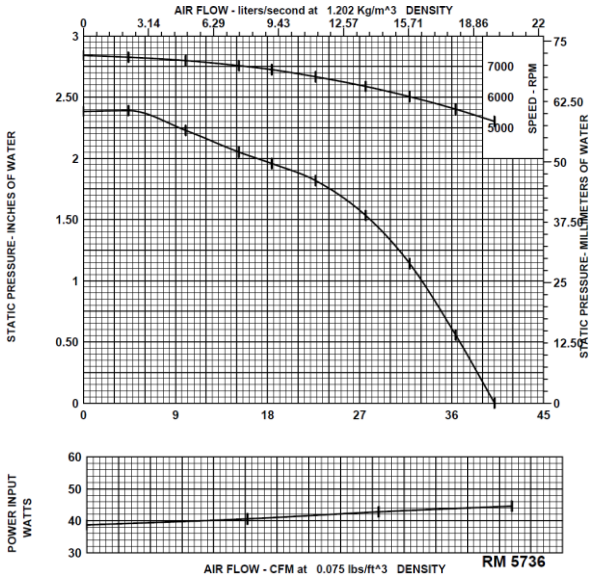
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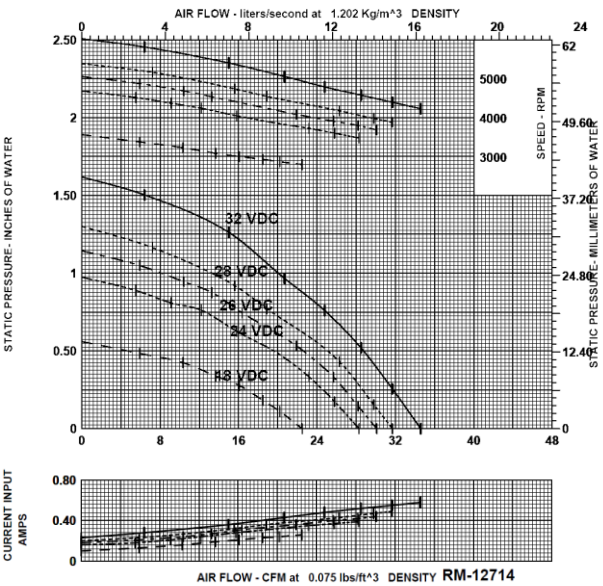
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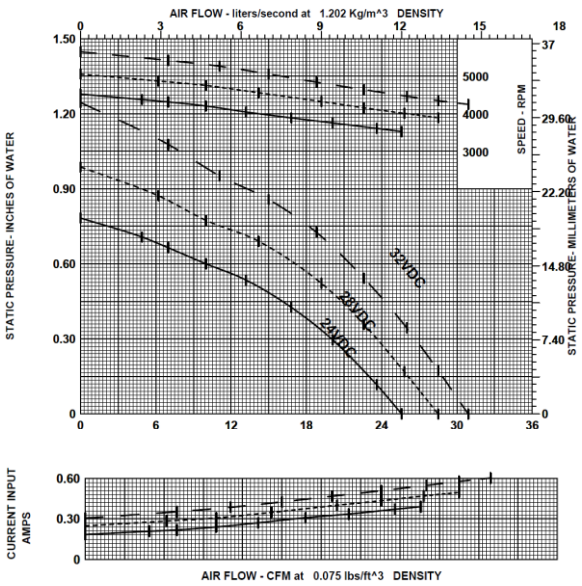
P/N 041358000 TRML 1395YF A352-10



P/N 011198000 TRML 1928SF A791-19C



P/N 011789000 ½TRMX 1928SF A571-14F



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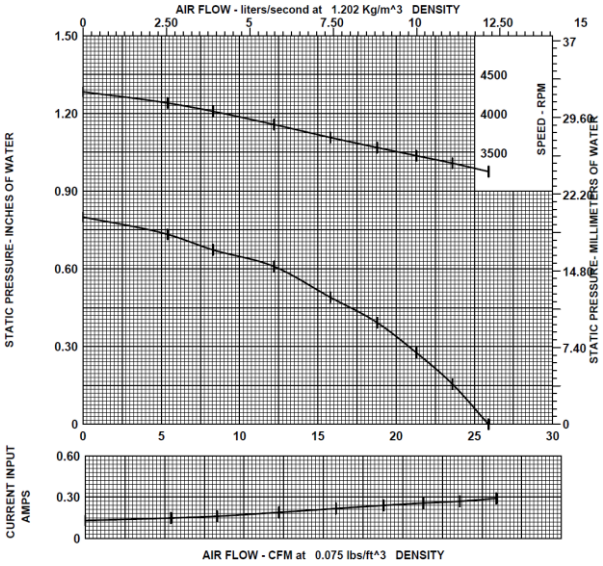
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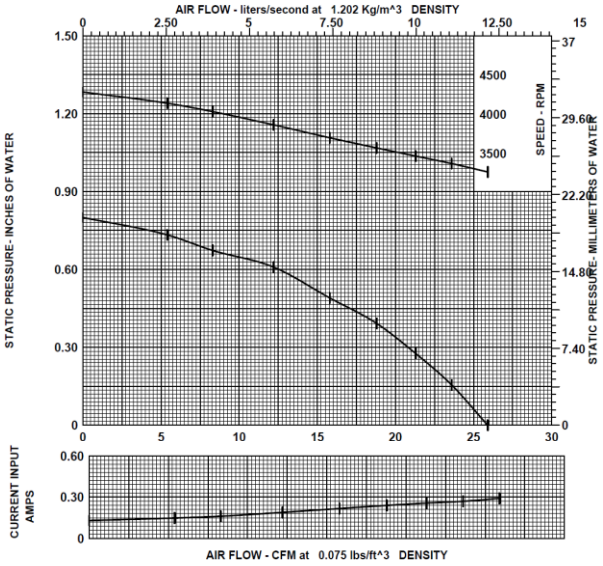
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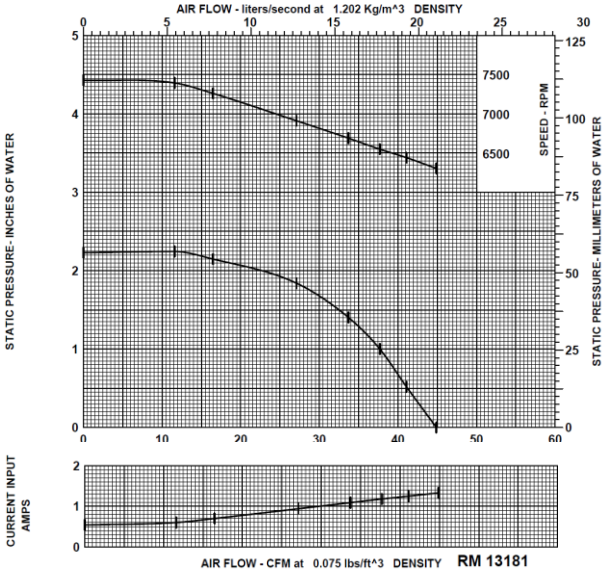
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P/N 012401000 TRML 3934SF A829-7



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