



Comair Rotron Specification Sheet
Specification Date: October 18, 2006

COMAIR ROTRON PART NUMBER: 040808
COMAIR ROTRON MODEL NUMBER: DD892848B1A2-E2 (ROHS Compliant)

A.) MOTOR:

RATED VOLTAGE:	48 Vdc
OPERATING VOLTAGE RANGE:	24 Vdc – 72 Vdc
LOW-START VOLTAGE:	24 Vdc
RUNNING CURRENT:	1.40 Amps
LOCKED ROTOR CURRENT:	2.00 Amps
RATED POWER:	67.2 Watts
NOMINAL SPEED:	2,700 RPM \pm 200 (At Free Delivery)
START UP TIME:	10 Seconds Maximum
MOTOR TYPE:	Brushless DC
MOTOR PROTECTION:	By Integrated Circuit, Fuse
LOCKED ROTORT PROTECTION:	Electronic
POLARITY PROTECTION:	Yes
AUTOMATIC RESTART CAPABILITY:	By Integrated Circuit
ROTATION:	Clockwise when viewed from Inlet

B.) MECHANICAL

DIMENSIONS:	227mm Dia. x 65.3mm (8.94" Dia. x 2.57") <i>Figure 1</i>
WEIGHT:	1.60 Kg (3.53 Lbs.)
BEARING TYPE:	Ball Bearing, Permanently Lubricated, Shielded



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MOTOR BASE:

Die Cast Aluminum

PROPELLER:

Metal, plated, Chem Film Gold per MIL-C-541 Class 1A

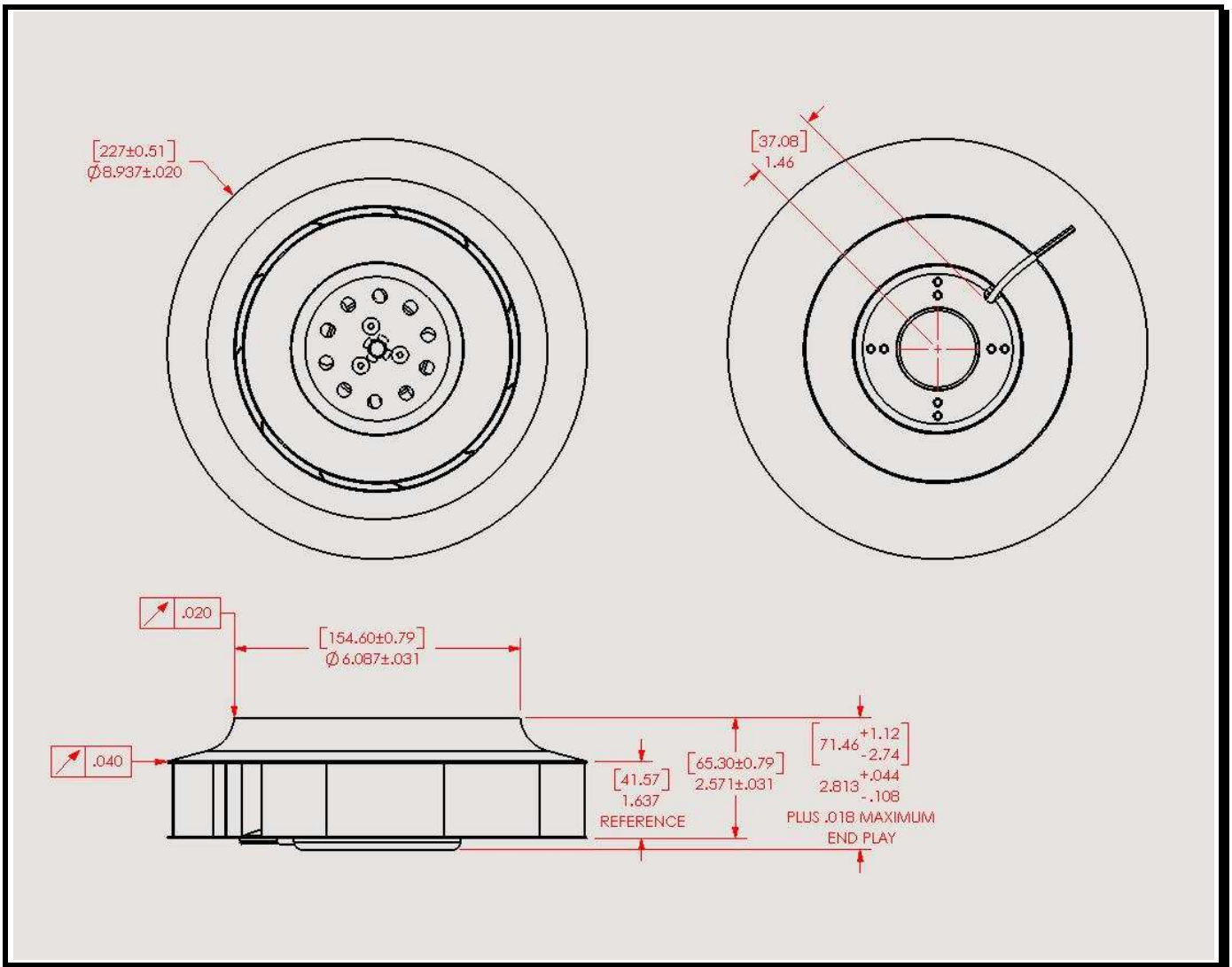


Figure 1



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C.) ADDITIONAL FEATURES

TACHOMETER OUTPUT:	5Vdc TTL Compatible Output $I_C = 5\text{mA}$ typical. 2 Pulses per Revolution
SPEED CONTROL:	PWM Input
ENVIROSHIELD:	Type 2 (meets Belcore GR-487)

D.) ENVIRONMENTAL

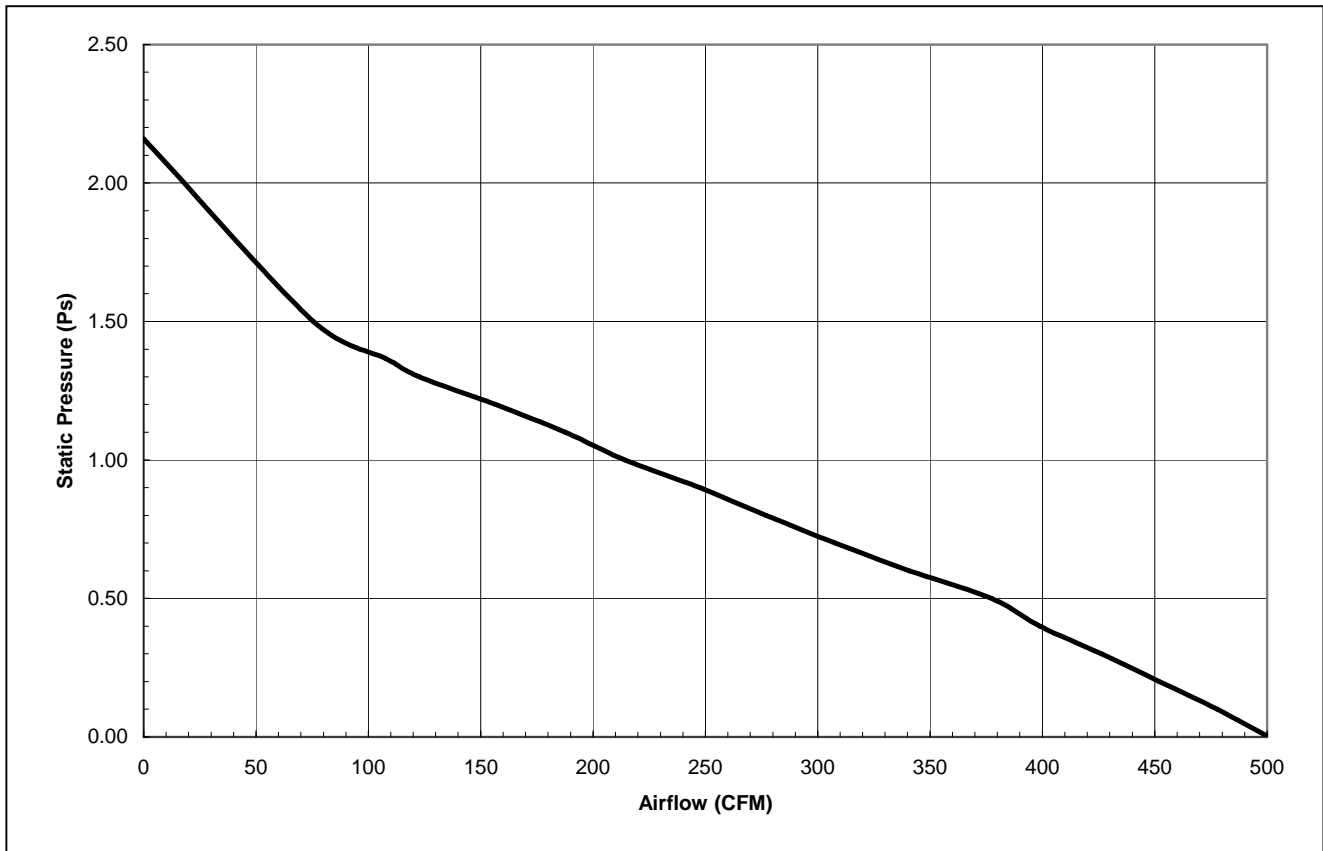
OPERATING TEMPERATURE:	-40°C to +70°C
STORAGE TEMPERATURE:	-50°C to +85° C, 65% \pm 20% RH
HUMIDITY:	5% to 95% RH, non-condensing
VIBRATION:	3G's (20 to 200 Hz)
SHOCK:	100G peak, 10 msec, half sine wave

E.) PERFORMANCE CHARACTERISTICS

AIR FLOW:	500 CFM \pm 10% (At Free Delivery and 48Vdc)
STATIC PRESSURE:	2.220" Inches of H ₂ O (At Shut-Off and 48Vdc)
ACOUSTIC LEVEL:	73 dBA (Freely Suspended at 1 meter per ANSI S12.11-1987 at 48Vdc)



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F.) TERMINATION

LEADWIRES:

18.0 ± 0.50"
20 AWG, UL 1061 Style
(From the edge of the venturi to the tip
of the lead wires.)

COLOR DESIGNATION:

Red – Power
Black – Return
Blue/White – Tachometer Output
Yellow – Program (PWM) Input



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G.) RELIABILITY

This fan is designed for continuous duty life of XX,000 Hours at 40°C, (L10) . New digital motor; testing not yet complete.

H.) SAFETY



I.) Flammability

The blower including all components meets an UL94V-0 rating or better.