Comair Rotron Specification Sheet

Specification Date: July 11, 2005

COMAIR ROTRON PART NUMBER:	039852
COMAIR ROTRON MODEL NUMBER:	DD692748K1A

A.) MOTOR:

RATED VOLTAGE:	48 Vdc
OPERATING VOLTAGE RANGE:	24 Vdc – 72 Vdc
LOW-START VOLTAGE:	24 Vdc
RUNNING CURRENT:	0.932 Amps
LOCKED ROTOR CURRENT:	2.00 Amps
RATED POWER:	44.7 Watts
NOMINAL SPEED:	3100 RPM ± 200 (At Free Delivery)
START UP TIME:	8 Seconds Maximum
MOTOR TYPE:	Brushless DC
MOTOR PROTECTION:	By Integrated Circuit, Fuse, and Polarity
LOCKED ROTORT PROTECTION:	Electronic
POLARITY PROTECTION:	Yes
AUTOMATIC RESTART CAPABILITY:	By Integrated Circuit
ROTATION:	Clockwise when viewed from Inlet

B.) MECHANICAL

DIMENSIONS:	175mm Dia. x 69mm (6.90” Dia. x 2.70”) *Figure 1*
WEIGHT:	2.3 Kg (1.0 Lbs.)
BEARING TYPE:	Ball Bearing, Permanently Lubricated, Shielded

MOTOR BASE:	Die Cast Aluminum
IMPELLER:	Metal, Plated Recommended Inlet Ring: 559115

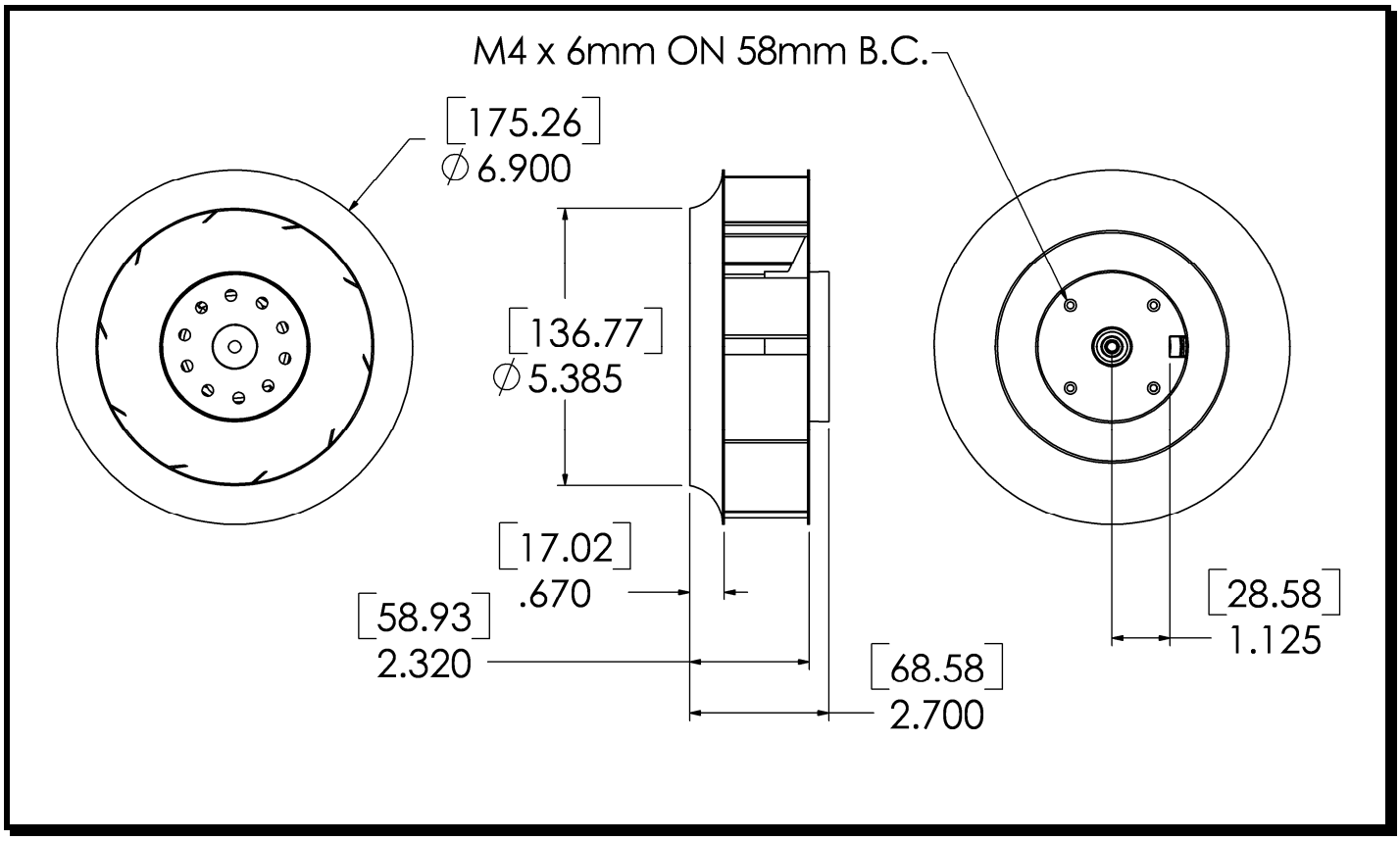


Figure 1

C.) ADDITIONAL FEATURES

TACHOMETER OUTPUT:	5Vdc TTL Compatible Output I_C = 5mA typical. 2 Pulses per Revolution

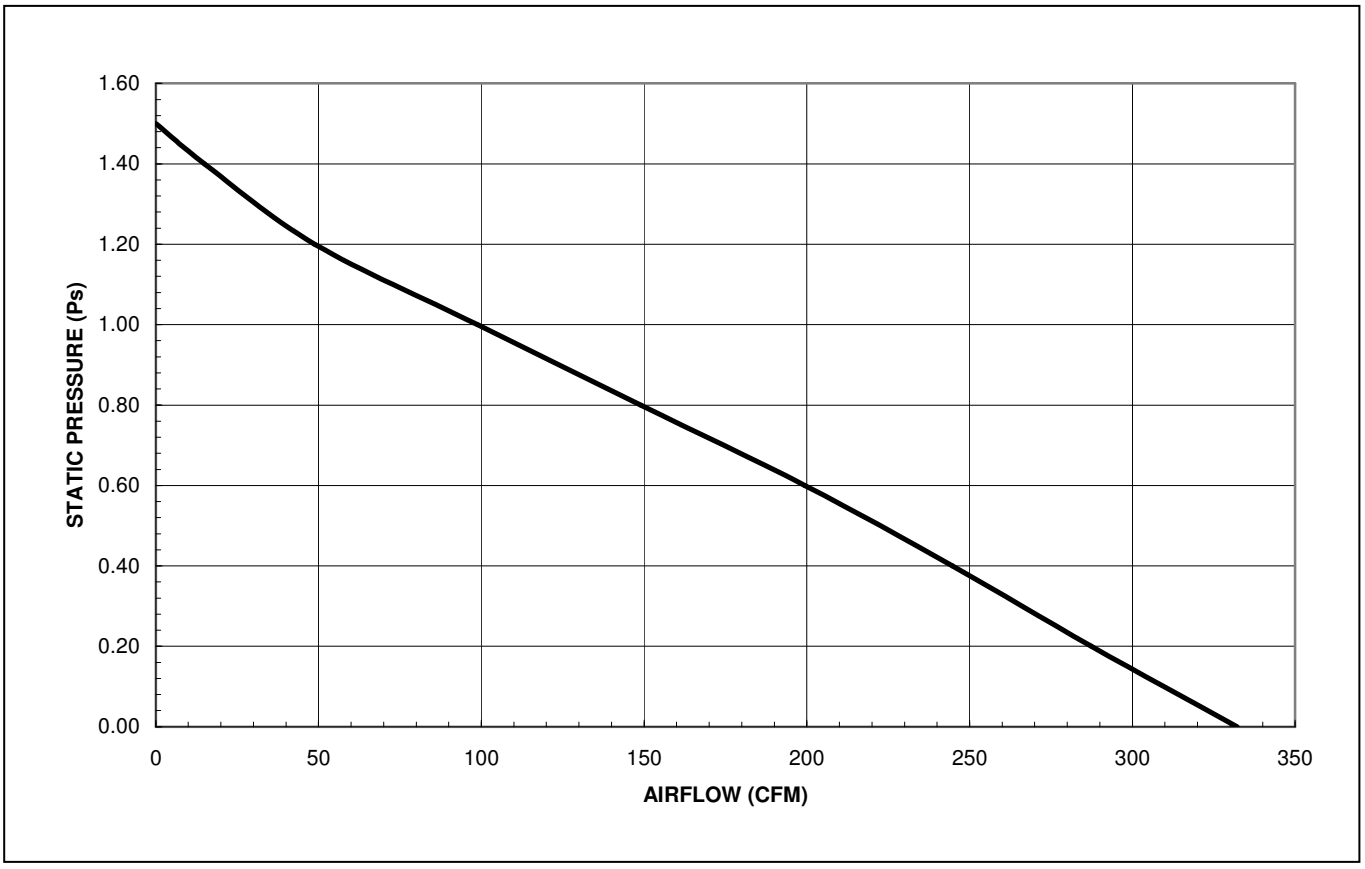
D.) ENVIRONMENTAL

OPERATING TEMPERATURE:	-40°C to +75°C
STORAGE TEMPERATURE:	-50°C to +85° C, 65% ± 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:	332 CFM ± 10% (At Free Delivery and 48Vdc)
STATIC PRESSURE:	1.500" Inches of H20 (At Shut-Off and 48Vdc)
ACOUSTIC LEVEL:	68.8 dBA (Freely Suspended at 1 meter per ANSI S12.11-1987 at 48Vdc)



F.) TERMINATION

LEADWIRES:	305mm ± 13mm (12.0" ± 0.50") 22 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

G.) RELIABILITY

This fan is designed for continuous duty life of XX,000 Hours at 40°C, (L10) (*Testing not completed*)

H.) SAFETY

I.) RFI

Designed to meet GR-1089-CORE, Issue 2, Revision 1. February 1999, Section 3.3 and EN 61000-4-3 (1995) RF Immunity to radiated fields (3 V/m, 80-1000 MHz, 80% AM at 1KHz.). *(Testing not yet completed)*

J.) Conducted EMI

Designed to meet EN 61000-4-6 (1996) Conducted Common Mode Immunity (3 V/m, 80-1000 MHz, 80% AM at 1KHz.). *(Testing not yet completed)*

K.) Flammability

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