



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 $\pm$ 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") <i>Figure 1</i>
WEIGHT:	2.3 Kg (1.0 Lbs.)
BEARING TYPE:	Ball Bearing, Permanently Lubricated, Shielded



Comair Rotron Specification Sheet

Specification Date: July 11, 2005

MOTOR BASE:

Die Cast Aluminum

IMPELLER:

Metal, Plated

Recommended Inlet Ring: 559115

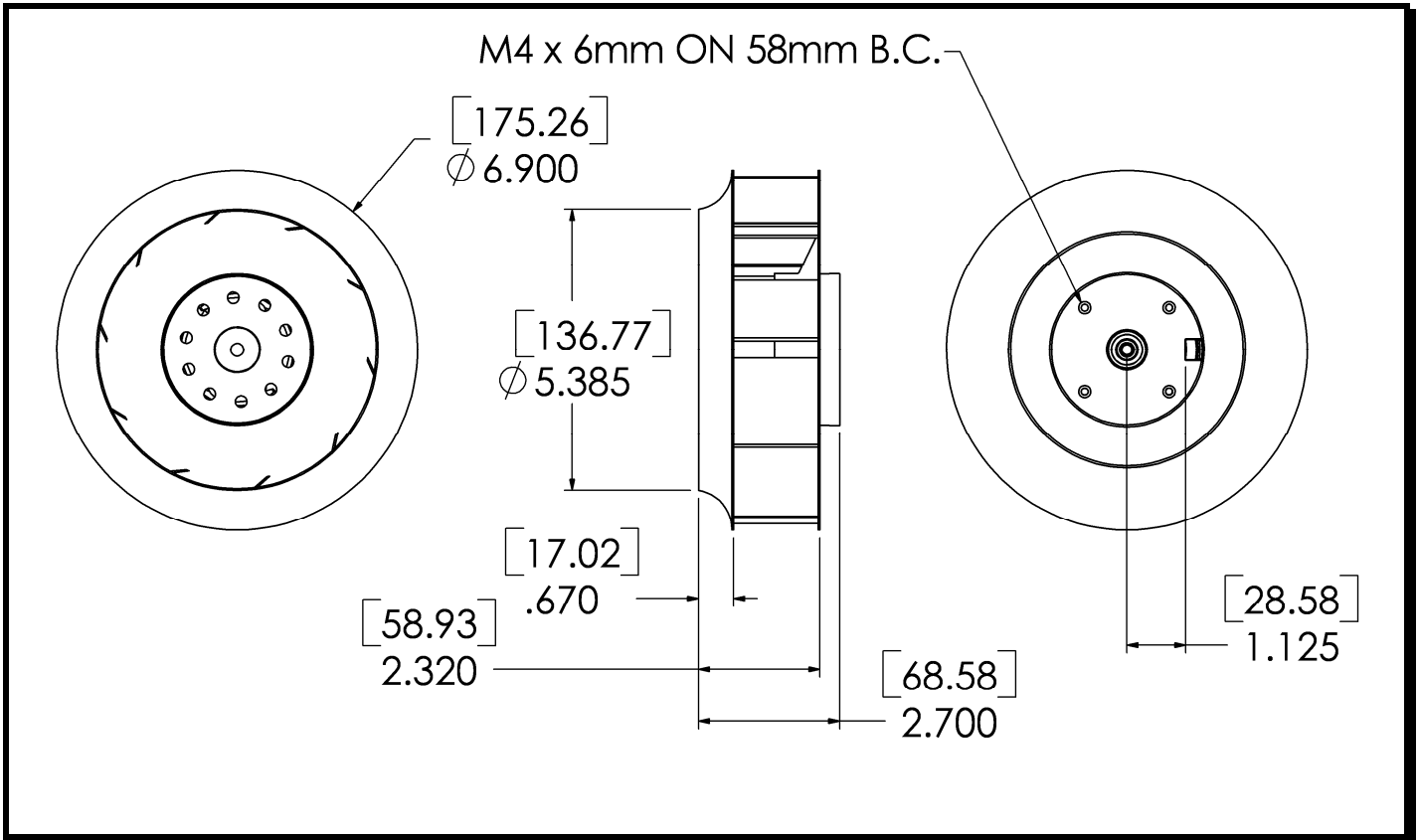


Figure 1

C.) ADDITIONAL FEATURES

TACHOMETER OUTPUT:

5Vdc TTL Compatible Output

$I_C = 5\text{mA}$ typical.

2 Pulses per Revolution

D.) ENVIRONMENTAL

OPERATING TEMPERATURE:

-40°C to +75°C

STORAGE TEMPERATURE:

-50°C to +85° C, 65% $\pm$ 20% RH

HUMIDITY:

5% to 95% RH, non-condensing



Comair Rotron Specification Sheet

Specification Date: July 11, 2005

VIBRATION:

3G's (20 to 200 Hz)

SHOCK:

100G peak, 10 msec, half sine wave

E.) PERFORMANCE CHARACTERISTICS

AIR FLOW:

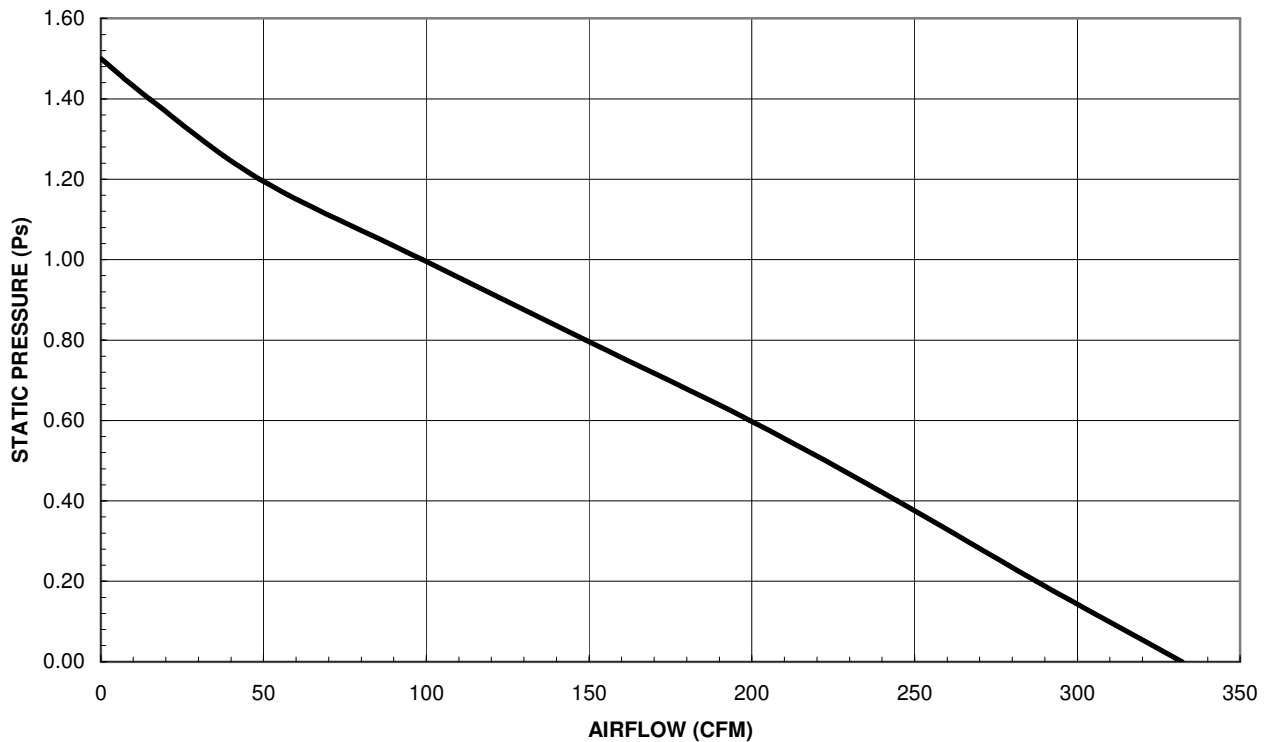
332 CFM $\pm$ 10%
(At Free Delivery and 48Vdc)

STATIC PRESSURE:

1.500" Inches of H₂O
(At Shut-Off and 48Vdc)

ACOUSTIC LEVEL:

68.8 dBA
(Freely Suspended at 1 meter per
ANSI S12.11-1987 at 48Vdc)





Comair Rotron Specification Sheet

Specification Date: July 11, 2005

F.) TERMINATION

LEADWIRES:

305mm $\pm$ 13mm (12.0" $\pm$ 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.