



Comair Rotron Specification Sheet

Specification Date: Nov. 22, 2011

Version:01

RoHS Compliant

COMAIR ROTRON PART NUMBER:

19043171A

COMAIR ROTRON MODEL NUMBER:

DD692748Z1E5X

A.) MOTOR:

RATED VOLTAGE:	48 Vdc
OPERATING VOLTAGE RANGE:	24 Vdc – 72 Vdc
LOW-START VOLTAGE:	24 Vdc
RUNNING CURRENT:	1.20 Amps
RATED POWER:	52.9 Watts
NOMINAL SPEED:	3435 RPM \pm 200 (At Free Delivery)
START UP TIME:	10 Seconds Maximum
MOTOR TYPE:	Brushless DC
MOTOR PROTECTION:	By Integrated Circuit, Fuse
LOCKED ROTOR PROTECTION:	Electronic
POLARITY PROTECTION:	Yes
AUTOMATIC RESTART CAPABILITY:	By Integrated Circuit
ROTATION:	Clockwise when viewed from Inlet

B.) MECHANICAL

DIMENSIONS:	175 mm Dia. x 69 mm (6.9" Dia. x 2.7") <i>Figure 1</i>
WEIGHT:	1.0 Kg
BEARING TYPE:	Ball Bearing, Permanently Lubricated, Shielded
MOTOR BASE:	Cast Aluminum
IMPELLER:	sheet metal, black power coating



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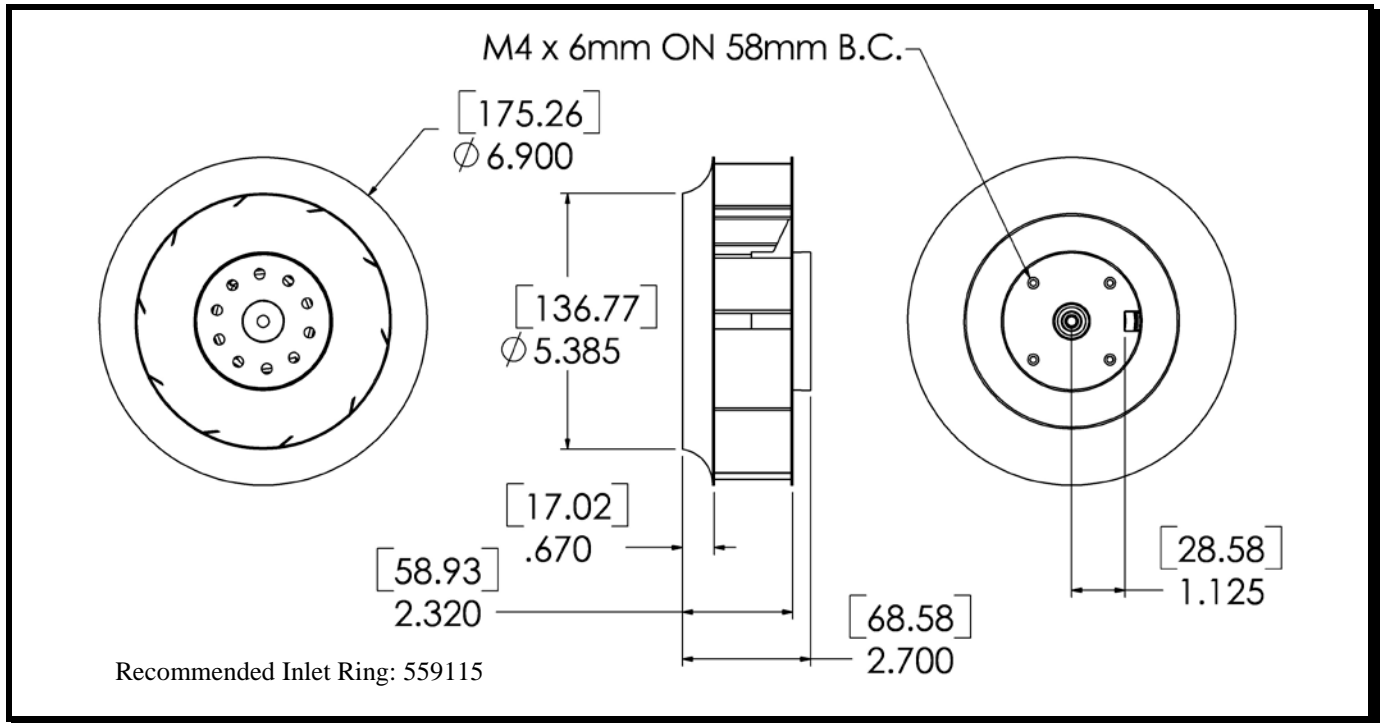


Figure 1

C.) ADDITIONAL FEATURES

TACHOMETER OUTPUT:

Open Collector Output
 $V_C = 60\text{vdc max.}$
 $I_C = 80\text{mA Max.}$
 2 Pulses per Revolution
 Non-isolated

PROGRAMMABLE SPEED CONTROL:

Base Frequency:

Amplitude:

Response:

PWM,
 200~20,000 Hz
 High = 10V DC
 Low = 0V DC
 Off - 0% to 10%
 Low Speed - 10% duty cycle
 Linear ramp - 10% to 100% duty cycle
 Full Speed - 100% duty cycle

D.) ENVIRONMENTAL

OPERATING TEMPERATURE:

-10°C to 70°C

STORAGE TEMPERATURE:

-40°C to +75°C

HUMIDITY:

5% to 95% RH, non-condensing



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E.) PERFORMANCE CHARACTERISTICS

AIR FLOW:

354 CFM \pm 10%

(At Free Delivery and 48 Vdc)

STATIC PRESSURE:

1.8" Inches of H₂O

(At Shut-Off and 48 Vdc)

ACOUSTIC LEVEL:

71.2 dBA

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

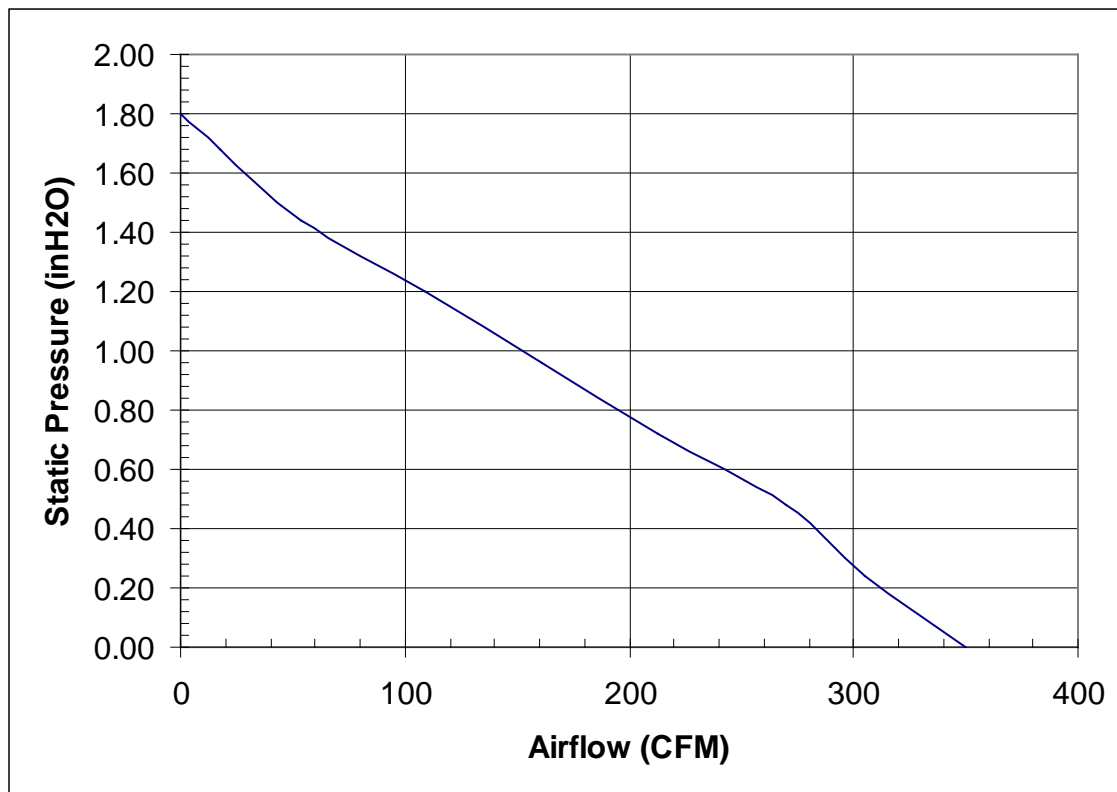


Figure 2



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F.) TERMINATION

LEADWIRES: 600mm +10mm (From the edge of the venturi to the tip of the leadwire),AWG 22, UL1007

CONTACT: TJC16-YTER

CONNECTOR: Molex 39-01-2040

SLEEVE TUBE: PVC (UL or CSA approved)
(Sleeve tube to extend 25 ± 2.0 mm beyond the edge of the venturi)

PIN DESCRIPTION: Pin 1: Yellow - PWM
(Pin Numbering per Molex Sequence) Pin 2: Blue - Tach
Pin 3: Red -Power(+)
Pin 4: Black - Power(-)

G.) RELIABILITY

This fan is designed for continuous duty life of 50,000 Hours at 40°C (L10).

H.) SAFETY

UL, CE

I.) Flammability

The all components of the motorized impeller meet a UL94V-0 rating.