



Comair Rotron Specification Sheet

Specification Date: Nov 30, 2017

Version: 01

COMAIR ROTRON PART NUMBER: 19039871A
COMAIR ROTRON MODEL NUMBER: DD893948B1A

A.) MOTOR:

RATED VOLTAGE:	48 Vdc
OPERATING VOLTAGE RANGE:	36 Vdc – 60 Vdc
LOW-START VOLTAGE:	36 Vdc
RUNNING CURRENT:	2.1 Amps
LOCKED ROTOR CURRENT:	3.5 Amps
RATED POWER:	100 Watts
NOMINAL SPEED:	2550 RPM (At Free Delivery)
START UP TIME:	8 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 99mm (8.94" Dia. x 3.90") <i>Figure 1</i>
WEIGHT:	1.70 Kg (3.75 Lbs.)
BEARING TYPE:	Ball Bearing, Permanently Lubricated, Shielded
MOTOR BASE:	Die Cast Aluminum
PROPELLER:	Metal, plated



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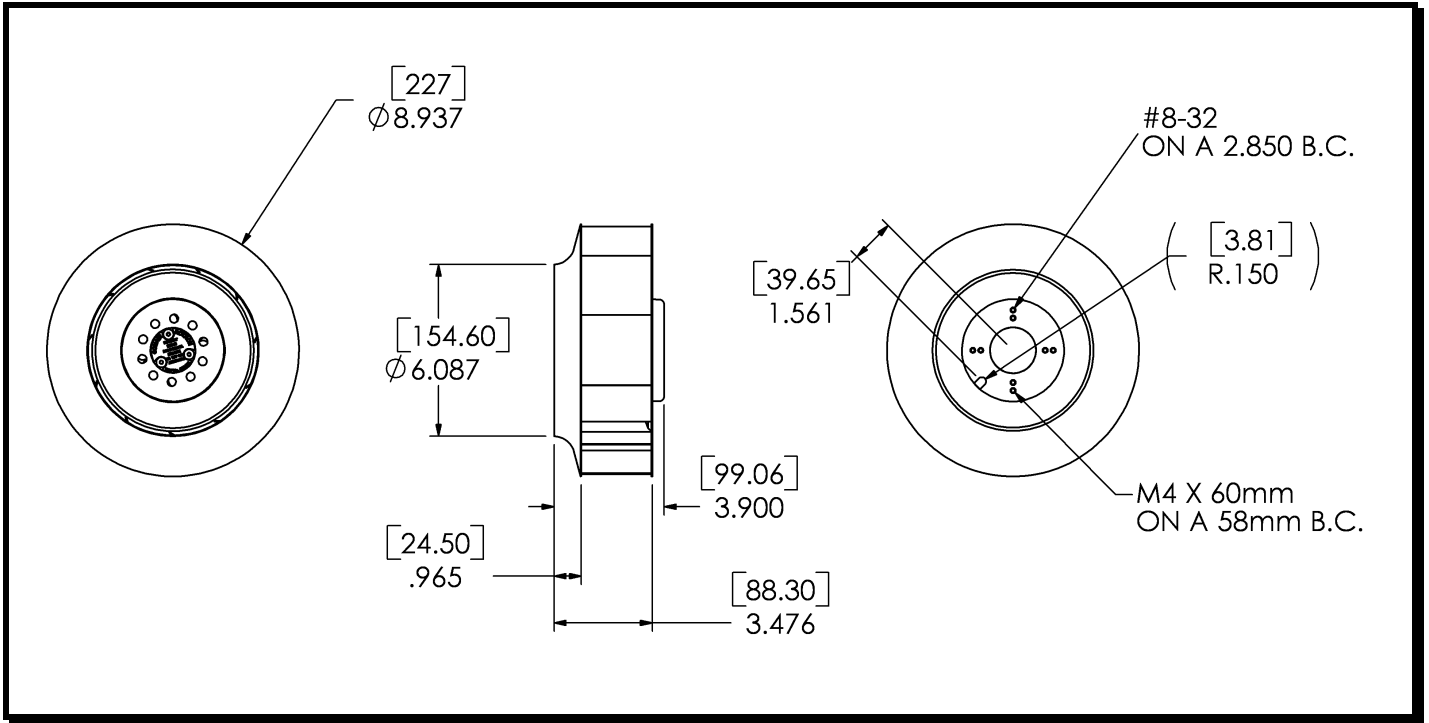


Figure 1

C.) ADDITIONAL FEATURES

TACHOMETER OUTPUT:

5Vdc TTL Compatible Output
 $I_C = 5\text{mA typ.}$
 2 Pulse per Revolution

D.) ENVIRONMENTAL

OPERATING TEMPERATURE:

$-10^\circ\text{C to } +70^\circ\text{C}$

STORAGE TEMPERATURE:

$-40^\circ\text{C to } +85^\circ\text{C, } 65\% \pm 20\% \text{ RH}$

HUMIDITY:

5% to 95% RH, non-condensing

VIBRATION:

3G's (20 to 200 Hz)



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E.) PERFORMANCE CHARACTERISTICS

AIR FLOW:	626 CFM \pm 10% (Measuring at zero static pressure)
STATIC PRESSURE:	1.90" Inches of H ₂ O (Measuring at zero air flow)
ACOUSTIC LEVEL:	73.5 dBA (Freely Suspended at 1 meter per ANSI S12.11-1987)

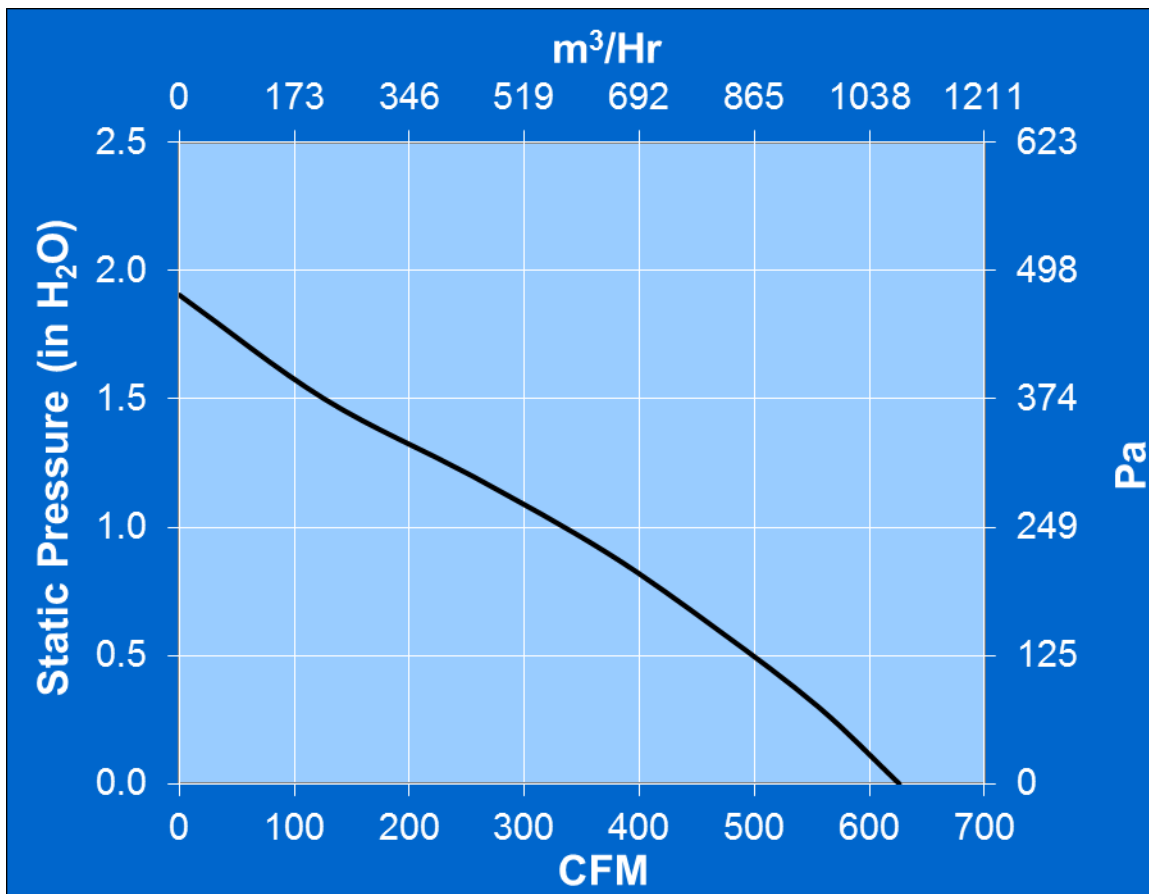


Figure 2



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F.) TERMINATION

LEADWIRES: 304.8mm \pm 25.4mm (12" \pm 1") Lead wires
22 AWG, UL 1061 Style
(From the edge of the motor base 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 48,000 Hours at 40°C, (L10)

H.) SAFETY

UL, CUL, CE

I.) Flammability

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

Notes:

All parameters will perhaps fluctuate with the speed tolerance by \pm 10%.