



Comair Rotron Specification Sheet

Specification Date: Nov 30, 2017

Version: 01

COMAIR ROTRON PART NUMBER: 19039870A
COMAIR ROTRON MODEL NUMBER: DD893924B1A

A.) MOTOR:

| | |
|-------------------------------|----------------------------------|
| RATED VOLTAGE: | 24 Vdc |
| OPERATING VOLTAGE RANGE: | 16 Vdc – 32 Vdc |
| LOW-START VOLTAGE: | 16 Vdc |
| RUNNING CURRENT: | 3.5 Amps |
| LOCKED ROTOR CURRENT: | 5.0 Amps |
| RATED POWER: | 84 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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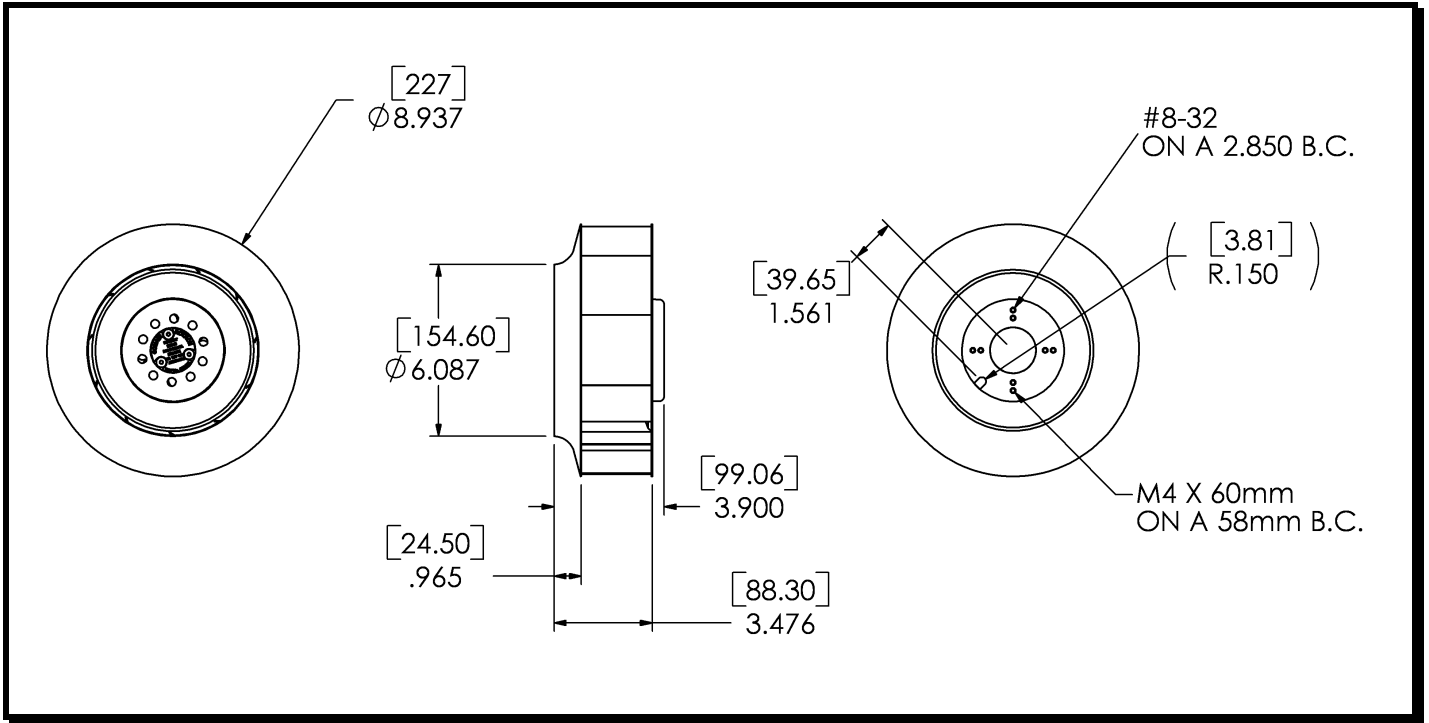


Figure 1

C.) ADDITIONAL FEATURES

TACHOMETER OUTPUT:

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

D.) ENVIRONMENTAL

OPERATING TEMPERATURE:

-10°C to +70°C

STORAGE TEMPERATURE:

-40°C to +85°C, 65% \pm 20% 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) |

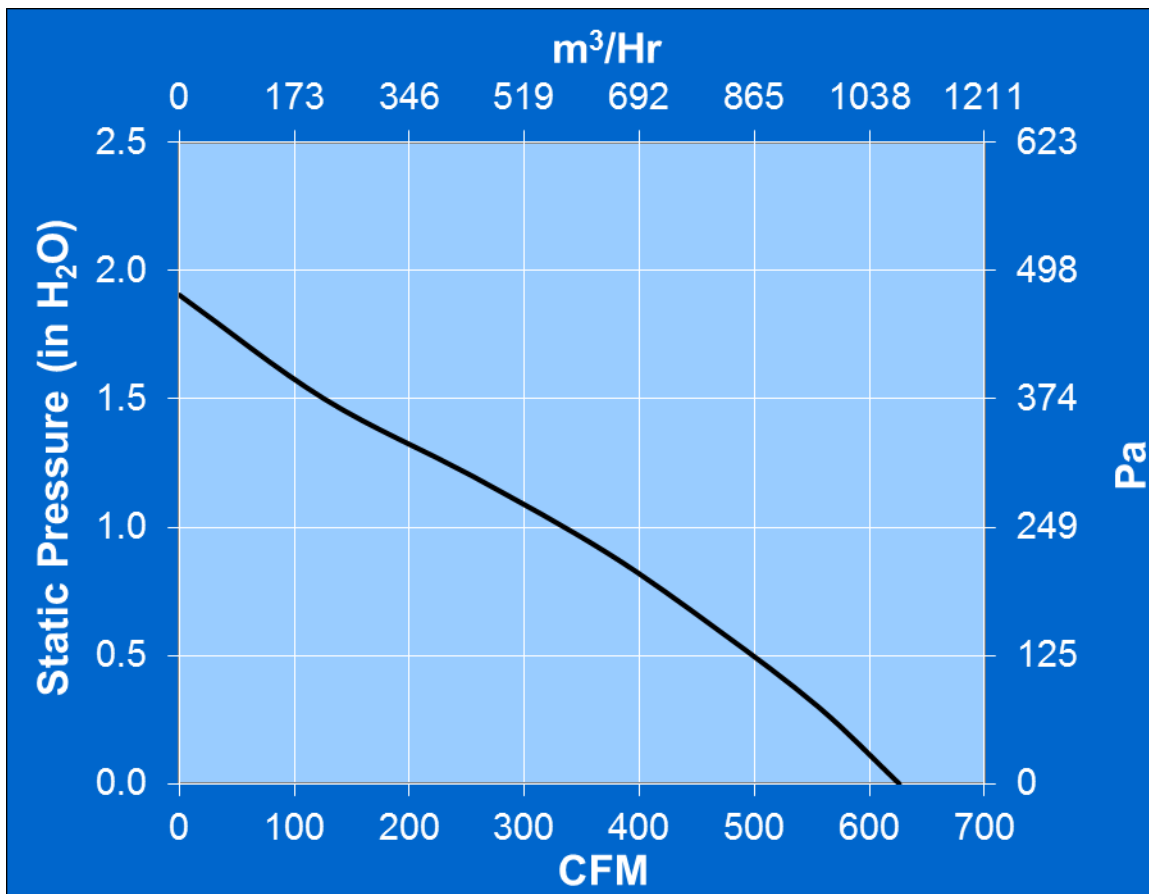


Figure 2



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F.) TERMINATION

LEADWIRES:

304.8mm \pm 25.4mm (12" \pm 1") Lead wires
20 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%.