



## Comair Rotron Specification Sheet

Specification Date: Nov 30, 2017

Version: 01

COMAIR ROTRON PART NUMBER: 17000286A  
COMAIR ROTRON MODEL NUMBER: DD893948K1A

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### A.) MOTOR:

RATED VOLTAGE:	48 Vdc
OPERATING VOLTAGE RANGE:	36 Vdc – 60 Vdc
LOW-START VOLTAGE:	36 Vdc
RUNNING CURRENT:	3.2 Amps
LOCKED ROTOR CURRENT:	4.5 Amps
RATED POWER:	154.8 Watts
NOMINAL SPEED:	2950 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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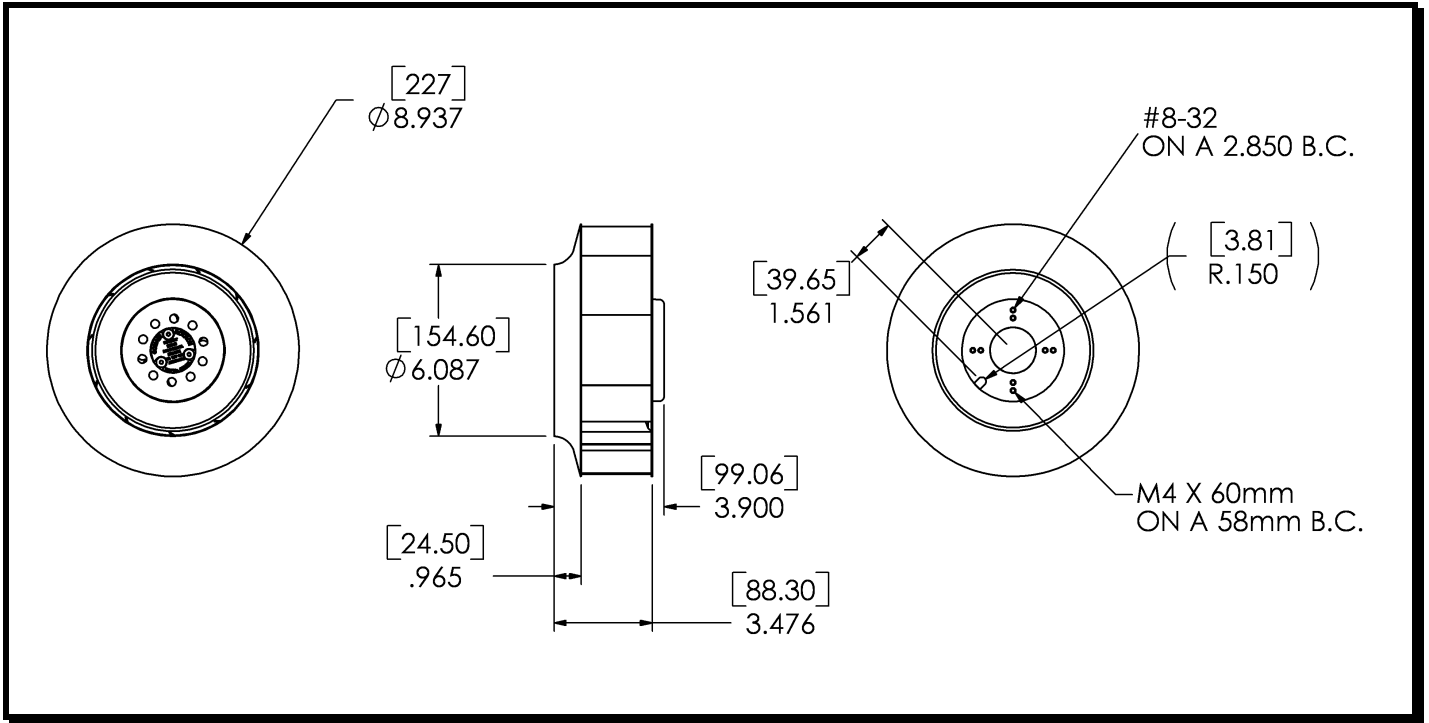


Figure 1

## 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: 724 CFM  $\pm$  10%  
(Measuring at zero static pressure)

STATIC PRESSURE: 2.55" Inches of H<sub>2</sub>O  
(Measuring at zero air flow)

ACOUSTIC LEVEL: 76.7 dBA  
(Freely Suspended at 1 meter per ANSI S12.11-1987)

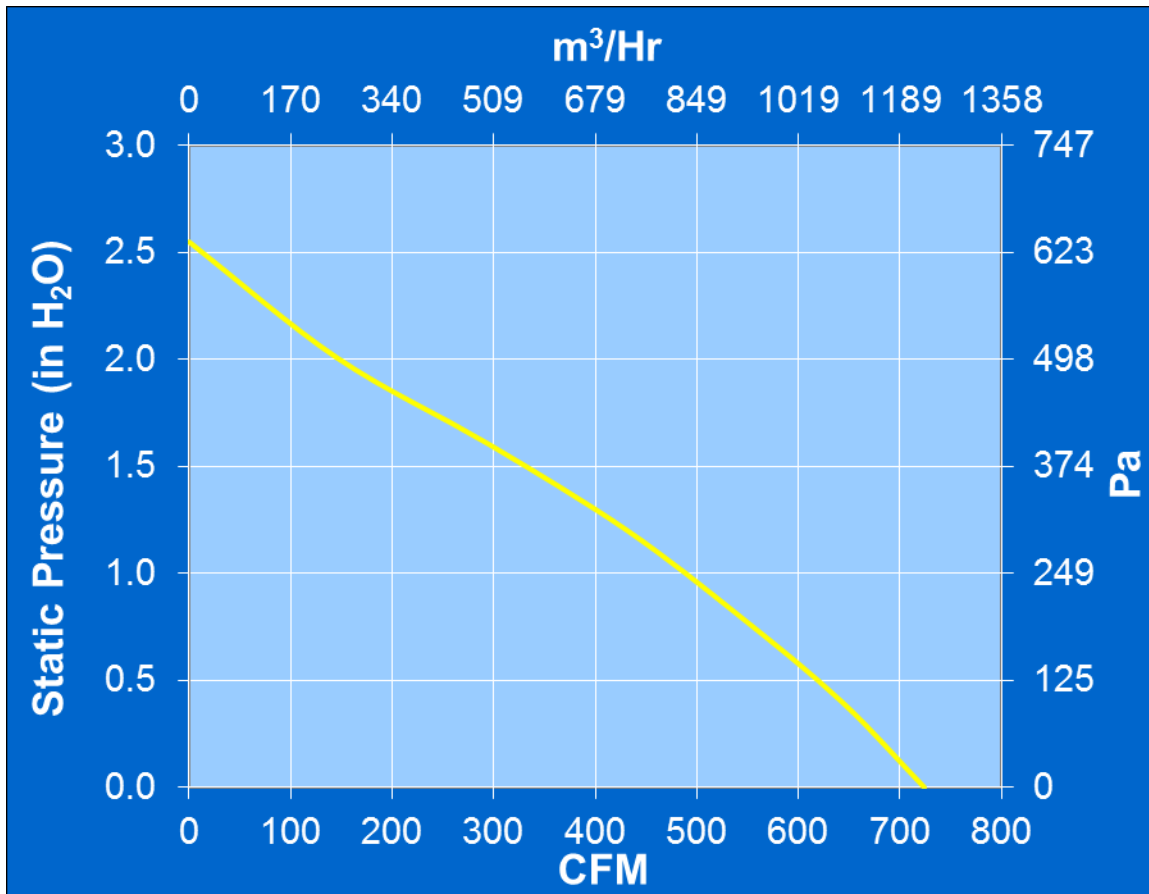


Figure 2



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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%.