



## ***Comair Rotron Specification Sheet***

Specification Date: Feb 28, 2024

**Version: 01**

**RoHS Compliant**

COMAIR ROTRON PART NUMBER:

19040808A

COMAIR ROTRON MODEL NUMBER:

DD892848B1A2X-E2

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### **A.) MOTOR:**

RATED VOLTAGE:	48 Vdc
OPERATING VOLTAGE RANGE:	24 Vdc – 72 Vdc
LOW-START VOLTAGE:	24 Vdc
RUNNING CURRENT:	1.40 Amps
LOCKED ROTOR CURRENT:	2.00 Amps
RATED POWER:	67.2 Watts
NOMINAL SPEED:	2,700 RPM $\pm$ 200 (At Free Delivery)
START UP TIME:	10 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 65.3mm (8.94" Dia. x 2.57") <i>Figure 1</i>
WEIGHT:	1.60 Kg (3.53 Lbs.)
BEARING TYPE:	Ball Bearing, Permanently Lubricated, Shielded
MOTOR BASE:	Die Cast Aluminum
PROPELLER:	Aluminum, plated



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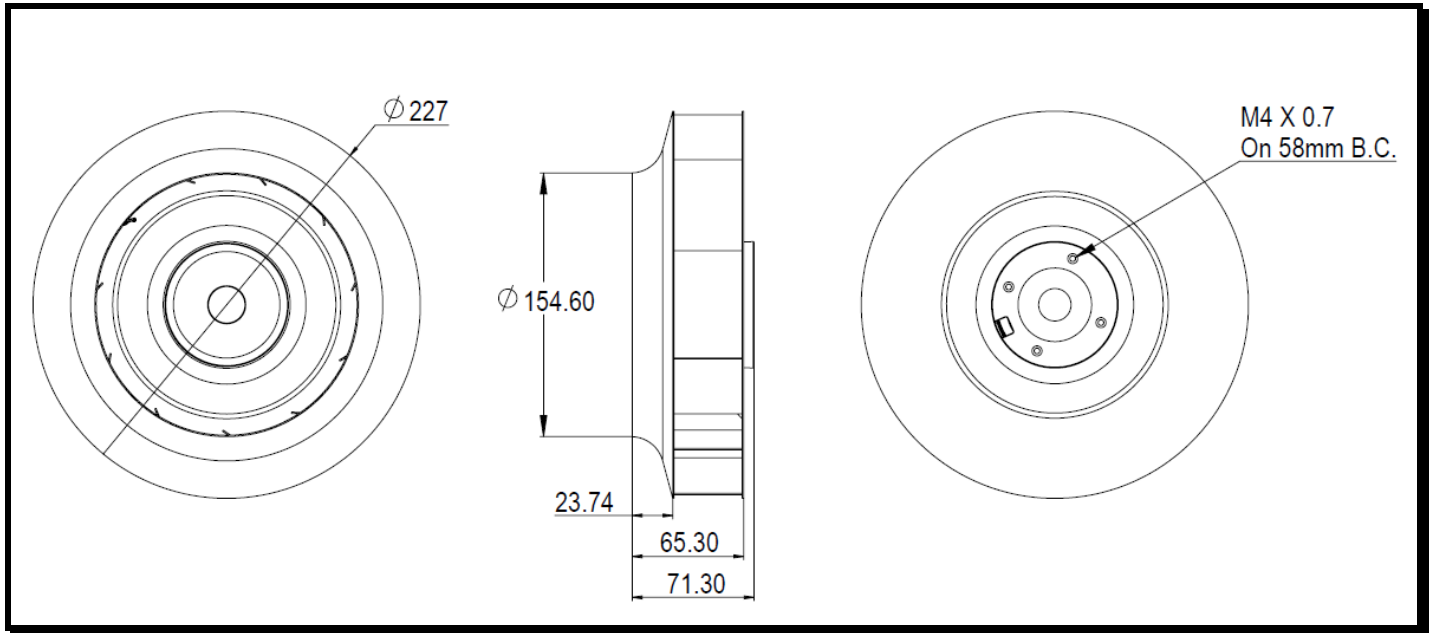


Figure 1

### C.) ADDITIONAL FEATURES

TACHOMETER OUTPUT:

5Vdc TTL Compatible Output

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

2 Pulses per Revolution

SPEED CONTROL:

PWM: 200 ~ 2 KHz, Open Collector

<10% Duty: Off

10%~95% Duty: Linear Ramp

>95% Duty or Open Lead Wire: Full Speed

### D.) ENVIRONMENTAL

OPERATING TEMPERATURE:

-10°C to +70°C

STORAGE TEMPERATURE:

-40°C to +85° C, 65% ± 20% RH

HUMIDITY:

5% to 95% RH, non-condensing

VIBRATION:

3G's (20 to 200 Hz)

ENVIROSHIELD:

Type 2



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### E.) PERFORMANCE CHARACTERISTICS

AIR FLOW:

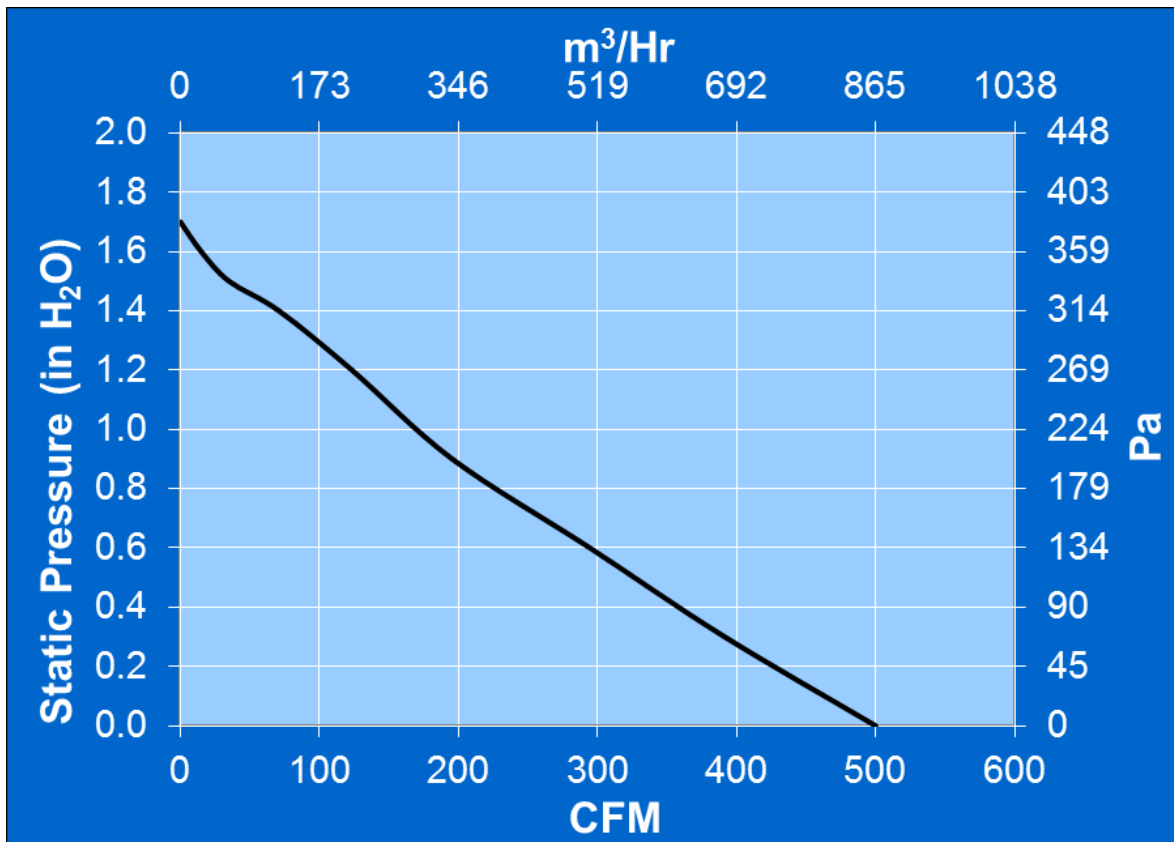
500 CFM  $\pm$  10%  
(At Free Delivery and 48Vdc)

STATIC PRESSURE:

1.70" Inches of H<sub>2</sub>O  
(At Shut-Off and 48Vdc)

ACOUSTIC LEVEL:

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





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### **F.) TERMINATION**

LEADWIRES:

18.0 ± 0.50"

20 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

Yellow – Program (PWM) Input

### **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 ± 10%.