



Comair Rotron Specification Sheet

Specification Date: Feb 28, 2024

Version: 01

RoHS Compliant

COMAIR ROTRON PART NUMBER: 19040808A
COMAIR ROTRON MODEL NUMBER: DD892848B 1A2X-E2

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")
Figure 1
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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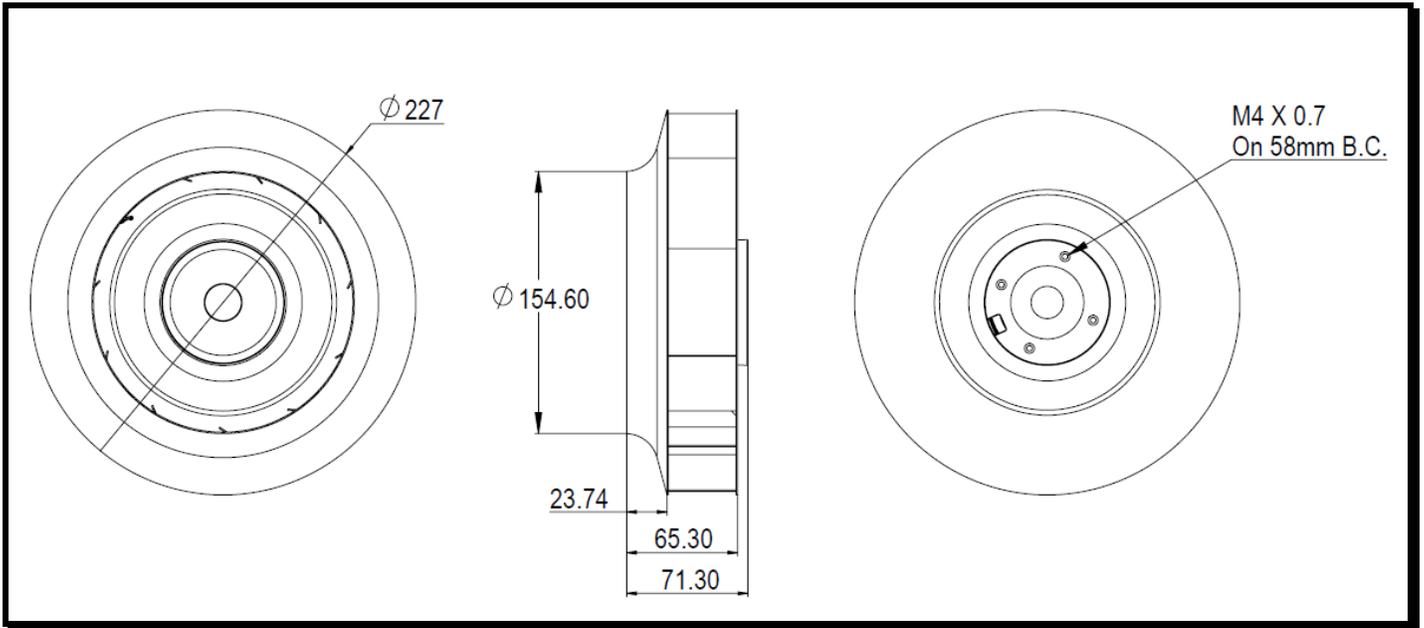


Figure 1

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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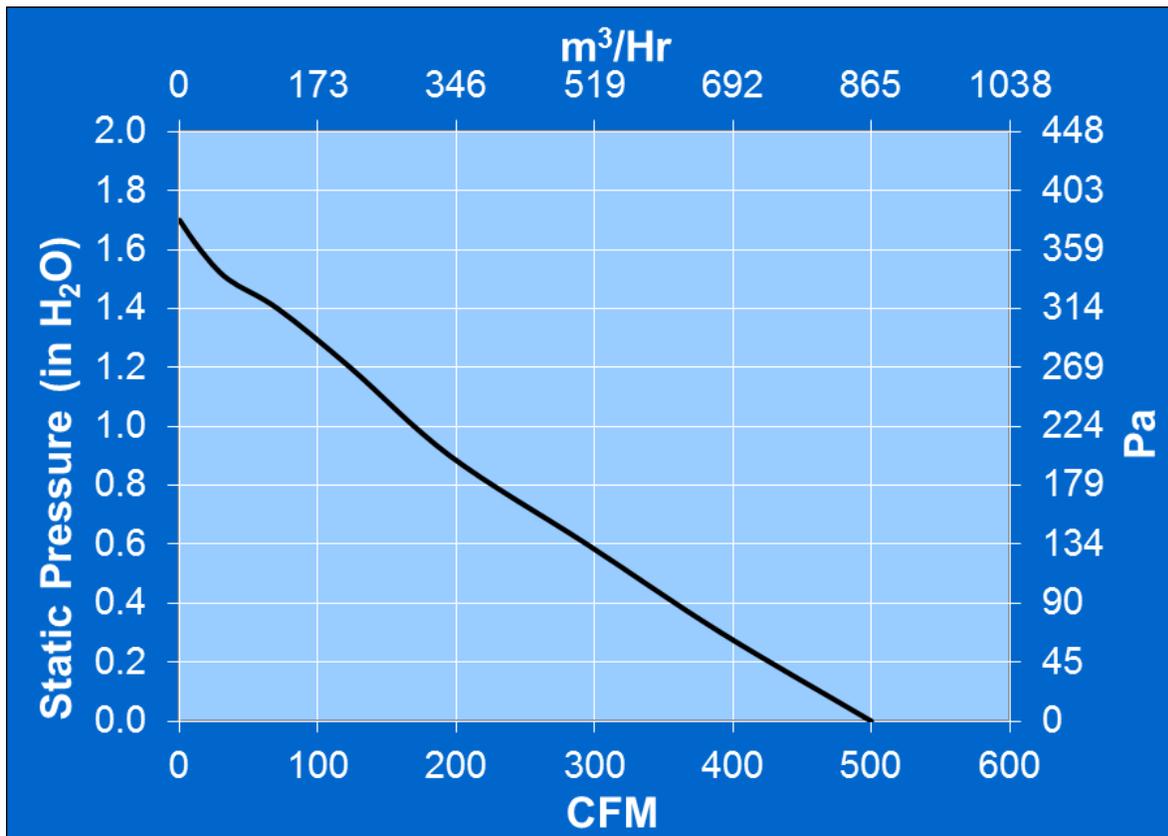
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E.) PERFORMANCE CHARACTERISTICS

AIR FLOW:	500 CFM \pm 10% (At Free Delivery and 48Vdc)
STATIC PRESSURE:	1.70" Inches of H ₂ 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%.