Rotron Premairprop Propeller Fan

General Propeller Information
Propeller Fans have sheet metal blades, usually four or more in number, which are curved to provide an aerodynamic lift and are generally arranged without blade overlap (PREMAIRPROP™ blades overlap). These fans operate best at free delivery or at very low static pressures.

Propeller Fans are suitable for conditions which require movement of a large volume of air against low resistance to flow. These fans are recommended for flushing cooling air through small enclosures such as radio cabinets, instrument panels, and communications equipment shelters.

They come in a variety of voltages and frequencies and are available with lead wires only. Most units are available with an optional internal Fan Performance Sensor (FPS) or external Low Speed Warning Device (LSWD).

Rotron Premairprop (10” propeller)

*Exact Performance Curve Characteristics Available Upon Request

General
- Physical envelope: 14.5” Dia. x 6.10” L¹
- Weight: approximately 17.5 lbs.
- Specially designed for cooling electronics in radio cabinets, instrument panels, radar systems and shipboard applications
- JFG – high shock resistance, cast venturi, reinforced mounting brackets and propeller
- JFV – vibration isolator mounts

Materials and Finishes
- Propellers are fabricated aluminum with a painted or anodized finish
- Venturi rings available in cast aluminum with a painted or anodized finish
- Mounting brackets made of zinc plated steel
- Stainless steel shaft motors and aluminum frames which are finished in black enamel
- “Lubricated-for-Life” ball bearings

¹ Note: See specific part-number drawing for complete product dimensions

Options/Accessories
- Screen Guard
- Rear Finger Guard
- LSWD (Low Speed Warning Device)
- FPS (Fan Performance Sensor)

Specifications subject to change without notice
AC Line Powered Units

- 3-phase motor design
- Fixed speeds (performance) based on input frequency
- Max free delivery airflow of 1755 CFM at 60 Hz
- Ambient temperature range: -54°C to 85°C

2 Airflow, maximum ambient and acoustic levels will vary depending on design parameters

Optional AC-AC Converters for AC Powered Models

DELTAC® Converter Driven Units
- DELTAC® converters allow high frequency (typically 400 Hz) fans to be driven by variable frequency (typically 360-800 Hz) power or low frequency 50/60 Hz power to obtain the higher frequency performance

Unit Description Key

The unit description key is for reference only and should not be confused with an order form. While most units are custom configurations, not all variations of the key shown below are possible. Please contact the Application Engineering department for more information regarding possible custom configurations.

Ordering Information

When ordering, please specify the specific Rotron part number listed on the following model table. Further ordering information, based on the configuration and motor series, may be obtained by contacting customer service. Please refer to the Unit Description Key explanation above.
# PROPELLER FANS

## PREMAIRPROP MODEL

![Diagram of a propeller fan with dimensions and airflow data]

### Standard Product Offering of AC Line Powered Models

<table>
<thead>
<tr>
<th>Part #</th>
<th>Unit Desc.</th>
<th>Flow (CFM)</th>
<th>Max Pressure (WG)</th>
<th>Nom. RPM</th>
<th>Nom Watts</th>
<th>Max Amb. (C)</th>
<th>Volts</th>
<th>Phase</th>
<th>Hz</th>
<th>Airflow Source Data</th>
<th>Features</th>
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Contact E-mail: milinguiry@ametek.com