MODEL OVERVIEW
The POWERVENT (PV) series of direct drive centrifugal in-line duct ventilation fans consists of twelve model sizes 4”, 5”, 6”, 8”, 10” and 12.4” respectively. All models are designed for direct connection in-line with standard diameter round ducting. Airflow performance values range from 108 CFM (PV-100) up to 942 CFM (PV-315x).

All PV fan models incorporate a powerful external rotor motor that has been factory matched to a non-overloading backward curved centrifugal fan wheel.

This powerful combination enables the PV fans to deliver exceptional airflow performances against high static pressure typically found in ducted ventilation systems. All motors within PV fans are fully speed controllable using voltage or frequency control regulators.

The PV series of duct exhaust or supply fans have been specifically designed for simple installation and many years of maintenance free operation. The PV fans can be mounted at any angle and at any point along the duct. The totally enclosed motor design allows the PV fans to operate in high moisture, lint and dust laden air. All models are manufactured with high quality materials and workmanship that is supported by a comprehensive **five (5) year warranty**.

All PV Fans feature a corrosion resistant galvanized steel casing with black baked enamel coating and are supplied with a strong mounting bracket and prewired junction box.

The PV100X fans feature Class F motor insulation.

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MODEL FEATURES
- Exhaust air up to 942 CFM with static pressure capabilities to 1.5" w.g.
- Galvanized steel casing with black baked enamel coating
- Pre-wired junction box
- Ideal for applications where space is limited
- Non-overloading backward inclined wheel for efficiency at higher static pressures
- AMCA Seal for Air Performance
- cULus Listed, Standard 507 & 705

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**5 year fan housing and motor warranty**

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All specifications are subject to change without notice unless approved in submittal by Soler & Palau.
CONSTRUCTION/SPECIFICATION CHECKLIST

Casing
• Manufactured from high grade pressed galvanized steel, with black baked enamel coating.
• Extra long inlet and discharge collars make installation quick and trouble free.
• Supplied with a strong galvanized steel mounting bracket.
• Supplied with a prewired junction box.

Wheel / Impeller
• Backward curved centrifugal type.
• Factory matched to an external rotor motor and dynamically balanced to eliminate vibration.

Long Life
• Permanently lubricated motors are engineered for trouble-free continuous operation for 40,000 hours.

Motor
• Totally enclosed permanent split capacitor start and run external rotor motors.
• 120V 60Hz (single phase) electrical connection.
• Permanently sealed, self lubricating precision ball bearings.
• Safety Thermal Overload Protection Cut-Out (Automatic Reset Type).
• All Models are suitable for working airstreams up to 140°F. PV-100X works up to 158°F.

Code Approval
• All models have been independently safety tested by Underwriters Laboratories, Inc. and are UL and cUL Listed.
• Independently safety tested by Intertek Laboratories, and are ETL Listed.
• Independently tested for Airflow Performance. The PV range is licensed to bear the AMCA seal for Air Performance.

ACCESSORIES

Please refer to the S&P Group A (Residential/Light Commercial) catalog for a complete line of accessories.
PERFORMANCE/DIMENSIONS

Dimensions in inches/mm

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Weight lbs/fgs</th>
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<tbody>
<tr>
<td>PV-100</td>
<td>3(3/16)</td>
<td>97.5</td>
<td>3(3/16)</td>
<td>120</td>
<td>4(3/4)</td>
<td>196</td>
<td>190</td>
<td>120</td>
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<tr>
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<td>3(3/16)</td>
<td>97.5</td>
<td>3(3/16)</td>
<td>120</td>
<td>4(3/4)</td>
<td>196</td>
<td>190</td>
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<td>122.5</td>
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<td>190</td>
<td>120</td>
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<tr>
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<td>122.5</td>
<td>4(3/8)</td>
<td>120</td>
<td>4(3/4)</td>
<td>196</td>
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<tr>
<td>PV-150x</td>
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<td>147</td>
<td>5(3/16)</td>
<td>120</td>
<td>4(3/4)</td>
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<td>236</td>
<td>120</td>
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<tr>
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<td>198</td>
<td>7(3/4)</td>
<td>120</td>
<td>4(3/4)</td>
<td>223</td>
<td>236</td>
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<tr>
<td>PV-200x</td>
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<td>198</td>
<td>7(3/4)</td>
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<td>9(7/16)</td>
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<td>4(3/4)</td>
<td>205</td>
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<td>9(7/16)</td>
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<tr>
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<td>312</td>
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<td>4(3/4)</td>
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### Air Performance

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Nom. RPM</th>
<th>Volts</th>
<th>Max. Watts</th>
<th>CFM v Static Pressure (SP) Ins. WG</th>
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<td>128</td>
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<td>135</td>
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<td>120</td>
<td>170</td>
<td>654</td>
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<tr>
<td>PV-315x</td>
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<td>120</td>
<td>370</td>
<td>942</td>
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</table>

Performance certified is for installation type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test.

**Sound**

Fan sound levels are measured in sones. At this time there are no sone level test standards available through HVI due to the fact that remote mounted fan noise levels are in proportion to the following: type of duct, length of duct, fan distance from the intake source and other random factors. It is generally accepted that remote mounted venting is usually quieter than standard (in room) venting.
PV Deluxe Exhaust Kits

S&P PV-POWERVENT Series fans are also available as easy-to-install kits. This ultra powerful bathroom fan offers a choice of single or dual vent exhaust. These kits are used for installations that require long or complicated duct runs.

All PV kits have standard 8-year warranty.

KIT-PV100x-DV
• 1 PV100x exhaust fan
• 2 plastic round grilles (PG-100)
• 1 Y-fitting (SY-4)
• Mounting Bracket

KIT-PV150X-DV
• 1 PV150X exhaust fan
• 2 plastic round grilles (PG-150)
• 1 Y-fitting (SY-6)
• Mounting Bracket

KIT-PV200-DV
• 1 PV200 exhaust fan
• 2 plastic round grilles (BOR-200)
• 1 Y-fitting (SY-8)
• Mounting Bracket

Standard Exhaust Kits

KIT-PV100
• 1 PV100 exhaust fan
• 1 plastic round grille (PG-100)
• Mounting bracket

KIT-PV100x
• 1 PV100x exhaust fan
• 1 plastic round grille (PG-100)
• Mounting bracket

KIT-PV150X
• 1 PV150X exhaust fan
• 1 plastic round grille (PG-150)
• Mounting Bracket