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.

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

Model PV is available in our Quickship program. All sizes are available for next day shipping from stock.

5 year fan housing and motor warranty

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

Motor
• Totally enclosed permanent split capacitor start and run external rotor motors.
• 115V 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

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

BOC
Interior Air Valve

CAR
Backdraft Damper

ACOP-VENT
Antivibrating coupling

SIL
Sound Attenuator

PER
Plastic louver shutter

SC 15
Variable speed control

Please refer to the S&P Group A (Residential/Light Commercial) catalog for a complete line of accessories.
INLINE CENTRIFUGAL DUCT FAN
MODEL PV

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/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV-100</td>
<td>3 7/16</td>
<td>3 7/16</td>
<td>4 3/4</td>
<td>7 1/16</td>
<td>4 7/8</td>
<td>3 1/2</td>
<td>6 5/16</td>
<td>243</td>
</tr>
<tr>
<td>PV-100x</td>
<td>3 7/16</td>
<td>3 7/16</td>
<td>4 3/4</td>
<td>7 1/16</td>
<td>4 7/8</td>
<td>3 1/2</td>
<td>6 5/16</td>
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<tr>
<td>PV-125</td>
<td>4 1/2</td>
<td>4 1/2</td>
<td>4 3/4</td>
<td>7 1/16</td>
<td>4 7/8</td>
<td>3 1/2</td>
<td>6 5/16</td>
<td>243</td>
</tr>
<tr>
<td>PV-125x</td>
<td>4 1/2</td>
<td>4 1/2</td>
<td>4 3/4</td>
<td>7 1/16</td>
<td>4 7/8</td>
<td>3 1/2</td>
<td>6 5/16</td>
<td>243</td>
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<tr>
<td>PV-150</td>
<td>5 1/2</td>
<td>5 1/2</td>
<td>4 3/4</td>
<td>8 1/2</td>
<td>4 7/8</td>
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<td>6 5/16</td>
<td>243</td>
</tr>
<tr>
<td>PV-150x</td>
<td>5 1/2</td>
<td>5 1/2</td>
<td>4 3/4</td>
<td>8 1/2</td>
<td>4 7/8</td>
<td>3 1/2</td>
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<td>8 1/2</td>
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<td>6 5/16</td>
<td>243</td>
</tr>
<tr>
<td>PV-200x</td>
<td>7 3/8</td>
<td>7 3/8</td>
<td>4 3/4</td>
<td>8 1/2</td>
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<td>3 1/2</td>
<td>6 5/16</td>
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<tr>
<td>PV-250</td>
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<td>9 1/8</td>
<td>4 3/4</td>
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<td>6 5/16</td>
<td>243</td>
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<tr>
<td>PV-250x</td>
<td>9 1/8</td>
<td>9 1/8</td>
<td>4 3/4</td>
<td>8 1/2</td>
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<td>6 5/16</td>
<td>243</td>
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<tr>
<td>PV-315</td>
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<td>12 1/8</td>
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<td>9 1/16</td>
<td>4 7/8</td>
<td>3 1/2</td>
<td>6 5/16</td>
<td>243</td>
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<tr>
<td>PV-315x</td>
<td>12 1/8</td>
<td>12 1/8</td>
<td>4 3/4</td>
<td>9 1/16</td>
<td>4 7/8</td>
<td>3 1/2</td>
<td>6 5/16</td>
<td>243</td>
</tr>
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</table>

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>
<th>Max. SP</th>
<th>Duct Dia. Ins.</th>
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<tr>
<td>PV-100</td>
<td>1400</td>
<td>115</td>
<td>57</td>
<td>108 100 92 85 78 66 52 33 18</td>
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<td>PV-100x</td>
<td>2880</td>
<td>115</td>
<td>84</td>
<td>153 142 130 120 111 96 80 63 34</td>
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<td>PV-125</td>
<td>2350</td>
<td>115</td>
<td>58</td>
<td>129 104 85 74 63 47 32 15 -</td>
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<td>85</td>
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<td>5&quot;</td>
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<tr>
<td>PV-150</td>
<td>250</td>
<td>115</td>
<td>75</td>
<td>245 205 177 157 129 93 59 -</td>
<td>1.20</td>
<td>6&quot;</td>
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<tr>
<td>PV-150x</td>
<td>2700</td>
<td>115</td>
<td>130</td>
<td>390 367 340 312 285 233 193 153 110</td>
<td>2.05</td>
<td>6&quot;</td>
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<tr>
<td>PV-200</td>
<td>3100</td>
<td>115</td>
<td>130</td>
<td>402 375 350 327 296 239 179 135 85</td>
<td>1.94</td>
<td>8&quot;</td>
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<tr>
<td>PV-200x</td>
<td>2930</td>
<td>115</td>
<td>180</td>
<td>544 515 485 446 415 360 312 273 230</td>
<td>2.64</td>
<td>8&quot;</td>
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<tr>
<td>PV-250</td>
<td>3000</td>
<td>115</td>
<td>170</td>
<td>568 533 502 471 440 370 312 263 221</td>
<td>2.61</td>
<td>10&quot;</td>
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<tr>
<td>PV-250x</td>
<td>3045</td>
<td>115</td>
<td>214</td>
<td>618 595 570 540 510 450 390 340 297</td>
<td>2.80</td>
<td>10&quot;</td>
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<tr>
<td>PV-315</td>
<td>2600</td>
<td>115</td>
<td>170</td>
<td>654 605 570 525 487 408 333 265 203</td>
<td>2.21</td>
<td>12.4&quot;</td>
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<tr>
<td>PV-315x</td>
<td>2650</td>
<td>115</td>
<td>370</td>
<td>942 905 859 811 762 622 508 440 390</td>
<td>3.90</td>
<td>12.4&quot;</td>
</tr>
</tbody>
</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.
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.
BATHROOM EXHAUST GRILLES FOR INLINE FANS

Featuring Vent Lights and Premium Grilles

S&P’s Grille Options give you the choice of seven (7) aesthetically pleasing grilles designed to match any bathroom decor. You can choose from our Vent Lights, Premium Grilles or Adjustable Grilles to fit your needs.

These grilles are designed to be used exclusively with one of S&P’s remotely mounted inline fans (TD, PV, SWF) for virtually silent bathroom ventilation. Inline fans give you the option to mount your grille over the shower, toilet, tub, or in multiple locations (dual vent).

With S&P’s Grille Options the choice is yours!

Vent Lights
Available with LED Bulbs

S&P’s new Vent Lights give you ventilation that is “Out-of-Sight and Out-of-Mind”! The Vent Lights appear to be a regular can light, and when combined with a remotely mounted fan, the noise and unsightly look of the traditional bathroom fan are gone! The Vent Lights are aesthetically pleasing grilles with lights that will match any bathroom decor.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VLED-100</td>
<td>Vent Light with PAR30 LED Bulb</td>
</tr>
<tr>
<td>VLH-100</td>
<td>Vent Light with PAR30 Halogen Bulb</td>
</tr>
<tr>
<td>VLF-100</td>
<td>Vent Light with Energy Star Rated Compact Fluorescent Bulb</td>
</tr>
</tbody>
</table>

Dimensions (inches)

Features:
- Longer duct collar for 4” duct
- Extendable hanger bars up to 24”
- 7.5” grille
- Built-in backdraft damper
- 3 bulb options

Why Choose the Vent Light with LED Bulbs?

S&P’s respect for the environment extends to its Vent Lights with the optional LED Bulb. The benefits to the LED Bulbs include:

- Built to last a minimum of 60,000 hours, plus the LED’s use a fraction of the energy that a traditional incandescent or halogen lamp uses
- LED’s contain no mercury so they are easy to dispose of, unlike other energy efficient bulbs
- The LED lamps run cool and are shock resistant, making them safer for use in your home
Premium Grilles

PG

S&P’s premium grilles come standard with steel collars for easy mounting and installation.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG-100</td>
<td>4” Plastic Grille with 4” Steel Collar</td>
</tr>
<tr>
<td>PG-150</td>
<td>6” Plastic Grille with 6” Steel Collar</td>
</tr>
</tbody>
</table>

Grille Dimensions (in inches)

<table>
<thead>
<tr>
<th>Grille</th>
<th>Dia.</th>
<th>Height</th>
<th>Fits Duct Dia.</th>
<th>Fits Collars</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG-150G</td>
<td>8 1/8</td>
<td>1 5/8</td>
<td>6”</td>
<td>PG-150D</td>
</tr>
<tr>
<td>PG-100G</td>
<td>4 5/8</td>
<td>1 1/2</td>
<td>4”</td>
<td>PG-100D</td>
</tr>
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</table>

Collar Dimensions (in inches)

<table>
<thead>
<tr>
<th>Collar</th>
<th>Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG-100D</td>
<td>3 3/4</td>
<td>3 1/4</td>
</tr>
<tr>
<td>PG-150D</td>
<td>5 3/4</td>
<td>4 5/8</td>
</tr>
</tbody>
</table>

Adjustable Grilles

BOR/BOC

Exhaust grilles for bathrooms, toilets and other small rooms. All models offer an adjustable central valve to regulate the airflow.

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>D</th>
<th>E</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOR/BOC-100</td>
<td>145</td>
<td>100</td>
<td>50</td>
<td>1</td>
</tr>
<tr>
<td>BOR/BOC-125</td>
<td>145</td>
<td>125</td>
<td>50</td>
<td>1</td>
</tr>
<tr>
<td>BOR/BOC-150</td>
<td>204</td>
<td>160</td>
<td>50</td>
<td>1</td>
</tr>
<tr>
<td>BOR/BOC-200</td>
<td>244</td>
<td>200</td>
<td>50</td>
<td>1</td>
</tr>
</tbody>
</table>
ADDITIONAL GENERAL ASSEMBLY ACCESSORIES

**BOR/BOC**  
Round plastic/metal adjustable grille

**PG**  
Round grille without built-in backdraft damper

**MBR**  
Connection Flanges

**PER-W**  
Plastic louver shutter

**PER**  
High pressure aluminum louver shutter

**GRA**  
Aluminum exterior fixed grilles

**MFL**  
Filtering Box

**SR**  
Reducer

**SY**  
Y sheet metal adapter

**ID**  
Flexible round duct

**SIL**  
Acoustic attenuators

**Electrical accessories**

**EPBT**  
Electronic push button timer

**SCS**  
Speed control slide type

**SC**  
Speed control
If you have a dryer with long or complicated duct runs, S&P offers the perfect solution to increase dryer efficiency: the PV100x Dryer Booster Fan. The PV100x has been specifically designed to handle dryer boosting applications when overcoming long or complicated duct runs. This system helps save on drying time, moisture build-up, wear and tear on your dryer, and helps save on your electric bill. The centrifugal blade design is able to overcome extreme resistance from the most challenging installations. The PV-100x offers a fully enclosed motor, which ensures a long, trouble free life; thus making it the right choice for enhancing the performance of your clothes dryer.

The PV-100x fan is available separately or as part of a kit that includes everything necessary for a hands-free operation. Once the system is installed you will no longer waste time, energy or unnecessary wear and tear on your dryer. The next step is to select which activation best fits your needs.

**How to activate the PV-100x fan for clothes dryer boosting**

**Pressure Switches**
Pressure switches are a viable method of fan activation and a good solution for many installations. The pressure switch senses the pressure differential in the duct created by the dryer operation, thus activating the fan. Conversely, when the dryer is deactivated, the pressure switch senses this differential and the fan is deactivated. S&P’s PV-100xps utilizes a compact pressure sensor and run timer enclosed within the junction box and mounted to the fan housing. The pressure sensor is also available as an accessory.

**Current Sensors**
Current sensors are S&P’s “preferred” method of activation. They are “fail-safe”, as there is no maintenance required on the current sensor and they’re easy to install. The current sensing device can be installed at the outlet (where the dryer plugs into the wall) or at the circuit breaker box. When the device senses current going to the dryer, it activates the fan and vice-versa. No thought! No maintenance! Our choice!

**Interlocks**
Interlocks, like Current Sensors, are another “fail-safe” method of clothes dryer booster activation. The interlocks senses when the fan is running and activates the dryer. Used as a safety feature, if the fan is not running or if there is a problem with the fan the dryer will not turn on.

All 3 activation methods are available as accessories or in the S&P’s all inclusive dryer booster kits.

**SWF - Sidewall Mount Exhaust Fan for Dryer Boosting**
The sidewall unit can be paired with a current sensor or pressure switch when interior duct access in a home, apartment or townhouse is limited or difficult. The expanded exhaust grille allows for the easy passing of lint laden air. The SWF utilizes the same powerful motor as the PV-100x and is also suitable for duct runs up to 105 feet or up to 80 feet with 6 elbows. The low profile SWF fan is easy to install with an epoxy coating that can be painted to match the exterior of the building. The SWF also offers the same trusted 5 year warranty.