

POWERVENT (PV)

CENTRIFUGAL IN LINE DUCT EXHAUST FANS
VENTILADORES CENTRIFUGOS IN-LINE
VENTILATEURS CENTRIFUGES EN LIGNE

*Models PV-100, 100X, 125, 125X, 150X,
200, 200X, 250, 250X, 315, 315X*



cULus Listed
Standards 507 & 705



INSTALLATION AND WIRING INSTRUCTIONS **INSTRUCCIONES DE MONTAJE** **INSTRUCTIONS DE MONTAGE**

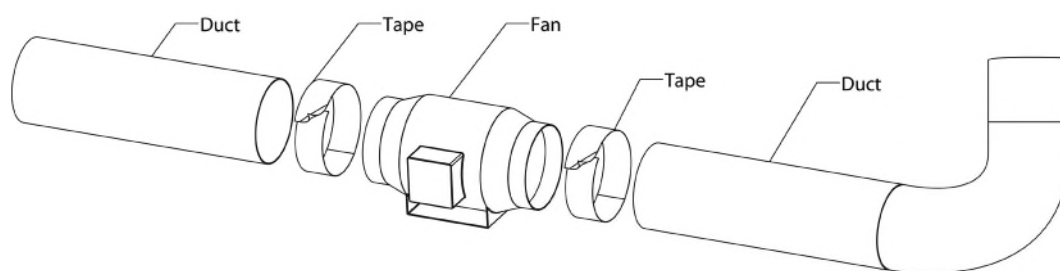
(English / Español / Français)

READ AND SAVE THESE INSTRUCTIONS
LEER Y GUARDAR ESTAS INSTRUCCIONES
LIRE ET CONSERVER CES INSTRUCTIONS

Figure 1. Installing / Instalación / Installation: POWERVENT (PV)

• Models PV-100 through to PV-315X / Modelos PV-100 a PV-315X / Modèles PV-100 à PV-315X.

1. Secure mounting bracket to a fixed structure.
Fijar el soporte a la pared o techo.
Fixer le support au mur ou au plafond.
2. Hole the fan up to the mounting bracket fixing holes and place, align and secure fixing bolts.
Sujetar el ventilador y hacer coincidir los agujeros ranurados en el soporte con los del ventilador. Atornillar y montar el ventilador.
Placer le ventilateur en faisant coïncider les orifices du support avec ceux du ventilateur, puis placer les deux vis de fixation.
3. Completely tighten both screws to secure the fan.
Colocar el otro tornillo y apretar ambos.
Bien serrer les deux vis de fixation.
4. Wire the fan in accordance with the Wiring Diagrams in Figure (2).
El ventilador debe tener la conexión eléctrica como en la Figura (2).
Raccorder le ventilateur selon le schéma de câblage, Figure (2).

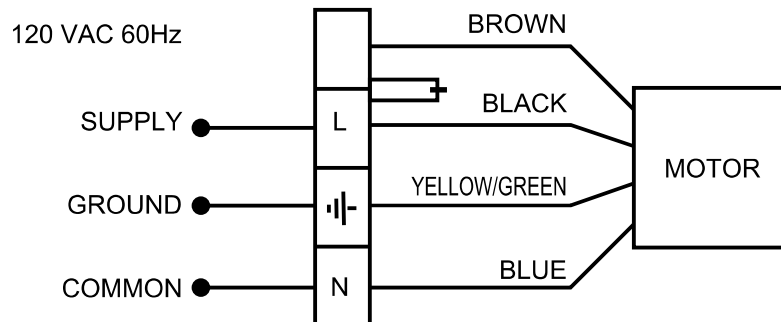


Notes:
- Seal joints with tape
- Use round elbows

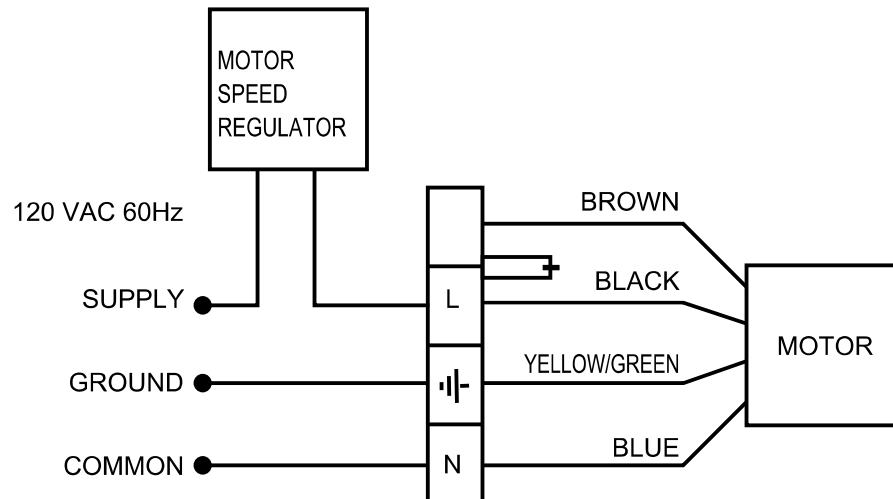
To ensure quiet operation of ENERGY STAR qualified inline and remote fans, each fan shall be installed using sound attenuation techniques appropriate for the installation. For bathroom and general ventilation applications, at least 8 feet of insulated flexible duct shall be installed between the exhaust or supply grille(s) and the fan. For remote ventilation applications, where metal duct is generally required by code, a metal sound attenuator shall be installed between the hood and the fan.

Figure (2). Electrical Wiring / Conexión Eléctrica / Raccordement Electrique.

- Motor without Speed Controller / Motor sin regulador de velocidad / Moteur sans variateur de vitesse.



- Motor with Speed Controller / Motor con regulador de velocidad / Moteur avec variateur de vitesse.



IMPORTANT

ALL POWERVENT PRODUCTS INCORPORATE MOTORS SUITABLE FOR 120VAC 60Hz ELECTRICAL SUPPLY ONLY.

IMPORTANTE

TODOS LOS POWERVENT INCORPORAN MOTORES QUE SON APROPIADOS SOLO PARA UN SUMINISTRO DE ELECTRICIDAD DE 120V 60Hz.

IMPORTANT

TOUS LES POWERVENT SONT FOURNIS AVEC UN MOTEUR UNIQUEMENT ADAPTE À UNE ALIMENTATION ELECTRIQUE DE 120V 60Hz.

ENGLISH

POWERVENT

The POWERVENT centrifugal range of in-line duct exhaust fans have been manufactured to the rigorous standards of production as defined by the International Quality Standards ISO 9001. All the components have been checked and tested at the end of the manufacturing process.

We recommend that you check the following after receiving this product:

1. The correct size has been received
2. The correct model has been received
3. The details on the rating label correspond to the electrical supply: voltage frequency etc.

Remove the unit from packaging and inspect for shipping damage within 15 days of receipt. If the product is found to be damaged, immediately contact your local authorized supplier. **DO NOT OPERATE THE UNIT IF DAMAGED.**

These instructions should be considered as a supplement to all applicable EPA standard practices, state and local building code regulations.

ENVIRONMENT

The POWERVENT series of fans are suitable for operation in indoor environments only. All models are suitable for the exhaust and supply of non-hazardous airstreams.

INSTALLATION

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY, OBSERVE THE FOLLOWING:

- (a) Use this unit only in the manner intended by the manufacturer. If you have any questions contact the manufacturer.
- (b) Before servicing or cleaning the unit, switch the power off at the service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked; securely fasten a prominent warning device such as a tag to the service panel.
- (c) Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes & standards including fire rated construction.
- (d) Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturers guideline and safety standards such as those published by the National Fire Protection Association (NFPA) and the American Society For Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and the local code authorities.
- (e) When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- (f) Ducted fans must always be vented to the outdoors.
- (g) If this unit is to be installed over a tub or a shower, it must be marked as appropriate for the application and connected to a GFCI (Ground Fault Circuit Interrupter) – protected branch circuit.
- (h) Never place a switch where it can be reached from a tub or shower.

- (i) CAUTION: For General Ventilating Use Only. Do Not Use To Exhaust Hazardous Or Explosive Materials And Vapors.
- (j) CAUTION: This unit has an unguarded impeller. Do Not Use In Locations Readily Accessible To People Or Animals.
- (k) All units are suitable for use with solid-state speed control.

The POWERVENT series can be mounted in any orientation, horizontal or vertical, and is suitable for numerous types of applications.

If the installation is made to rigid or flexible ducting, then it is recommended that the correct diameter ducting be used to couple to the fan flanges. If it is necessary to bend the duct at the discharge of the fan then the bend radius should be as large as possible.

Before installing the product check the following points; (1) the fan impeller turns freely and (2) there are no obstructions to the airflow.

All models include a robust mounting bracket, which enables easy and quick installation of the fan. See **Figure (1)** Installation Diagrams For POWERVENT Duct Fans.

Ductwork connection should be made with duct tape or duct fast-clamps (available through your local HVAC wholesale supplier) to ensure a good seal and secure connection.

ELECTRICAL CONNECTION

All POWERVENT series fans operate from a standard 120V 60Hz A.C electrical supply. All wiring must be carried out in accordance with National Electrical Code, and all applicable state and local buildings codes.

Electrical connections should be made in accordance with the electrical wiring diagrams shown in **Figure (2)** Electrical Wiring.

MAINTENANCE

IMPORTANT: BEFORE CARRYING OUT ANY MAINTENANCE OR SERVICING, ENSURE THE UNIT IS DISCONNECTED FROM THE MAINS ELECTRICAL SUPPLY.

All POWERVENT series exhaust fans incorporate sealed for life bearings and therefore do not require any lubrication. We would recommend inspection of the product at least once every twelve (12) months to avoid the excessive accumulation of dust and dirt on the impeller. To inspect the unit disconnect from electrical supply and remove from ducting. If any debris is evident on the impeller clean with a damp (not wet) cloth. DO NOT USE any detergents or abrasive materials for cleaning.

WARRANTY

Soler & Palau warrants that the POWERVENT series exhaust fan will be free from defective materials and workmanship for the period of (5) years from the date of original purchase. In the event that we find any part defective the product will be repaired or, in the Company's discretion, replaced without charge provided that the product has been installed in accordance with the enclosed instructions and all applicable EPA Standards and state and local building codes. Soler & Palau PV Bath Kits have an extended warranty period of 8 years from the date of original purchase.

IF CLAIMING UNDER WARRANTY

Please return the complete product, freight paid, to your local authorized distributor. All returns must be accompanied by a valid Bill Of Sale. All returns must be clearly marked "Warranty Claim," with an accompanying description stating the nature of the fault.

THE FOLLOWING WARRANTIES DO NO APPLY

Damages from shipping, either concealed or visible. Claim must be filed with the carrier.

Damages resulting from improper wiring or installation

Damages caused by acts of nature, or resulting from improper consumer procedures such as: Improper Maintenance; Misuse; Negligence; Alteration; Abuse; Abnormal Use; or Accident or Incorrect Electrical Voltage and Current.

Removal or alteration to the Soler & Palau data plate label.

WARRANTY VALIDATION

The end user must keep a copy of the Bill of Sale to verify purchase date.

THE ABOVE FIVE (5) YEAR WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, WRITTEN OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE. IN NO EVENT SHALL SOLER & PALAU BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING LOSS OF PROPERTY, REVENUES, LOST PROFITS, COSTS OF REMOVAL, INSTALLATION OR REINSTALLATION.