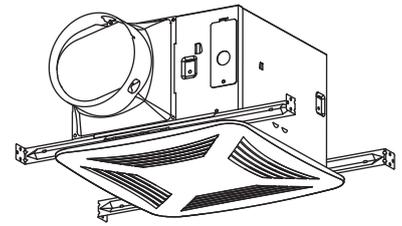




VENTILATION FAN



MODEL: PCD110XP

WARNING

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

- Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switching on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturer's 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.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- Ducted fans must always be vented to the outdoors.
- Acceptable for use over a tub or shower when connected to a GFCI (Ground Fault Circuit Interrupter) - protected branch circuit (ceiling installation only).
- This unit must be grounded.
- Not for Use in Kitchens.
- To reduce risk of fire and to properly exhaust air, be sure to duct air outside – Do not vent exhaust air into spaces within walls or ceilings or into attics, crawl spaces, or garages
- WARNING: To Reduce The Risk Of Fire Or Electric Shock, Do Not Use This Fan With Any Solid-State Speed Control Device.**
- The fan must not be installed in a ceiling thermally insulated to a value greater than R40.

CAUTION

- For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
- This product is designed for installation in ceilings up to a 12/12 pitch (45 degree angle). Duct connector must point up.
- To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
- Please read specification label on product for further information and requirements.

*The manual in electronic format can be download in our company web, or obtained from our dealer.

CLEANING & MAINTENANCE

For quiet and efficient operation, long life, and attractive appearance - lower or remove grille and vacuum interior of unit with the dusting brush attachment.

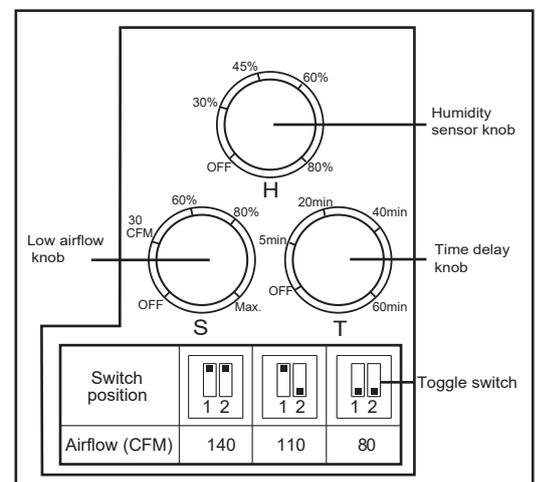
The motor is permanently lubricated and never needs oiling. If the motor bearings are making excessive or unusual noises, replace the motor with the exact service motor. The impeller should also be replaced.

OPERATION

See "ELECTRICAL WIRING" for wiring and switch details.

The control box, located inside the fan housing, has four settings:

- The toggle switches set the fan high speed from 80 to 140 CFM (factory set to 110 CFM). The fan will run at high speed when switch II is turned ON.
- The time delay knob sets the amount of time that the fan will continue to run at high speed after switch II is turned OFF, or motion is detected (if enabled), or the RH% limit is reached (if enabled). It is adjustable from 5 to 60 minutes. Once the set time has elapsed, the fan will run at the low airflow knob setting (low speed). The time delay setting is de-activated when set between OFF-5 mins (factory set to OFF). NOTE: for humidity sensing applications, the fan will continue to run for 5 minutes after humidity is below the RH% limit, even if the time delay knob is set between OFF-5 mins.
- The low airflow knob (low speed) sets the low airflow from 30 CFM up to the high speed airflow rate. The low speed is de-activated when set between OFF-30 CFM (factory set to OFF). The fan will run at low speed when switch I is turned ON and humidity is below the RH% limit (if enabled), and motion is not detected (if enabled).
- The humidity sensor knob sets the RH% limit at which the fan will automatically operate at high speed. The humidity sensor is de-activated when set between OFF-30% (factory set to OFF).



READ AND SAVE THESE INSTRUCTIONS
 Installer: Leave this manual with the homeowner.

Cod: 0060302596-C

OPERATION

Operation Sequence

1. Turn switch I ON. The fan will run at low speed per the low airflow knob setting and the humidity/motion sensors will start sensing (if enabled).
2. Turn switch II ON. The fan will run at high speed per the toggle switch setting and will override the humidity/motion sensors (if enabled).
3. Turn switch II OFF. The fan will continue to run at high speed until the time delay has elapsed (if enabled), and then will automatically change back to low speed.
4. Turn switch I OFF. The fan and all sensors (if enabled) are OFF completely.

HUMIDITY SENSOR OPERATION

The fan runs continuously at a low speed (if enabled, set by the low airflow knob) and automatically boosts up to high speed when the relative humidity (RH%) in the room exceeds the RH% limit set with the humidity sensor knob. If the fan continuously responds to changing environmental conditions (too sensitive), the RH% limit may need to be adjusted.

SENSITIVITY ADJUSTMENT

The "H" limit has been factory set for most shower applications. However, if the fan is in a tub area or is being used for moisture control, the "H" may need to be increased toward 80%. If the fan is responding too often to changing environmental conditions, the "H" setting may need to be increased toward 80%.

To adjust the "H" limit:

1. Disconnect power at service entrance.
2. Through the grille, locate the slot marked "H".
3. Carefully rotate the "H" adjustment toward 30% or 80%.
4. Turn on power and check operation by turning on the shower or other humidity source until the fan turns on.
5. Repeat above steps if necessary.

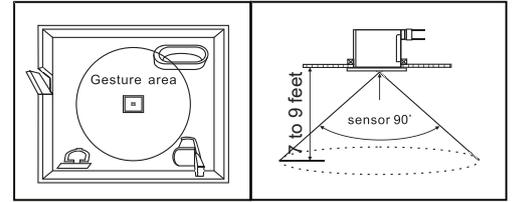
When the temperature changes, humidity sensor values will have some amount of deviation.

MOTION SENSOR OPERATION

Optionally, the standard plastic grille can be replaced with a motion sensing or lighted motion sensing grille. Simply plug the motion sensing grille into the fan control module (see "Install Grille" section, page 3) and when powered on, the fan will automatically start sensing motion. The fan runs continuously at a low speed (if enabled, set by the low airflow knob) and automatically boosts up to high speed when motion is detected. A green indicator light will illuminate continuously when motion is detected. The sensing distance will be dependent on the installation. The diagrams to the right provide a general layout.

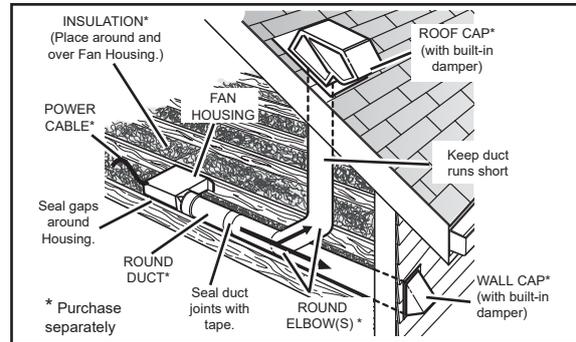
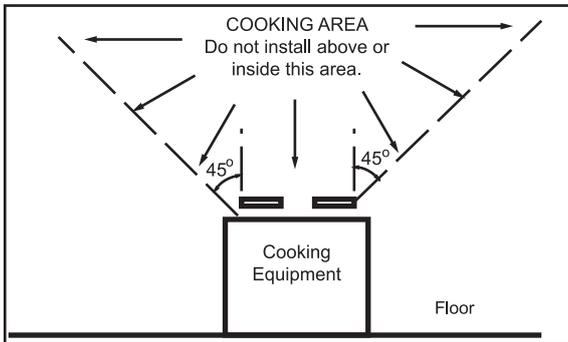
Recommended installation height: 7 to 9 feet.

Sensing range is within the 90° cone per the diagram to the right.



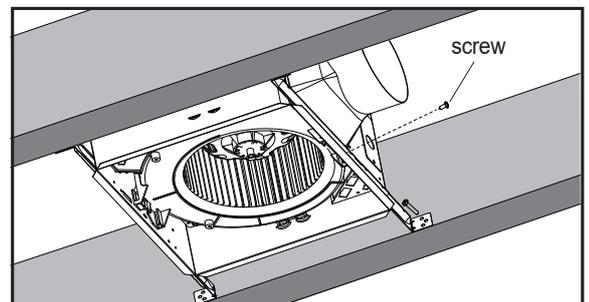
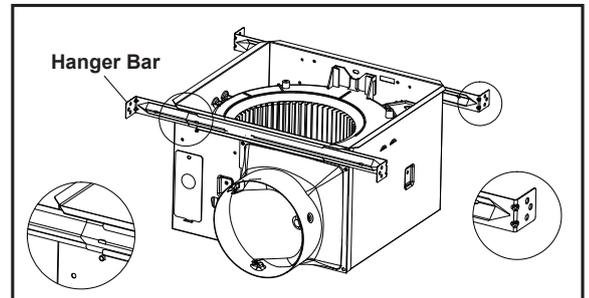
PLAN THE INSTALLATION

1. Do not install fan above or inside a 45-degree angle projected outwards from the cooking equipment element closest to the fan.
2. Two ways to connect ductwork to a factory-shipped unit.



ASSEMBLY INSTRUCTIONS

1. Sliding hanger bars have been provided, which allow the housing to be positioned accurately anywhere between the framing. The bars span up to 24 in. and can be used on all types of framing: I-joint, standard joist, and truss construction. Slide hanger bars onto housing and adjust as needed to fit between framing.
2. Extend the hanger bars to the width of the framing. Position the ventilator with the bottom edge of the hanger bar tabs are flush with the bottom edge of the framing, holding the ventilator in place. Secure hanger bars to framing using one screw on each end of hanger bar. Select a proper hole and secure the hanger bars together using one screw.



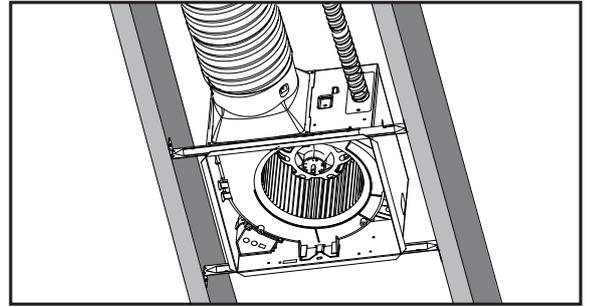
ASSEMBLY INSTRUCTIONS

3. INSTALL ROUND DUCTWORK

Connect the round ductwork (not included) to the damper/duct connector, and run the ductwork to a roof or wall cap (not included). Using tape (not included), secure all the ductwork connections so that they are air tight.

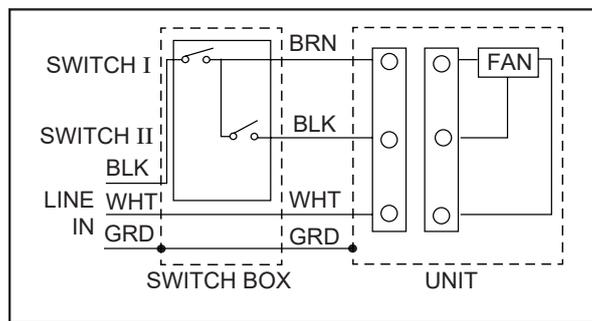
The ducting from this fan to the outside of building has a strong effect on the air flow, noise and energy use of the fan.

Use the shortest, straightest duct routing possible for best performance, and avoid installing the fan with smaller ducts than recommended. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated air flow.



ELECTRICAL WIRING

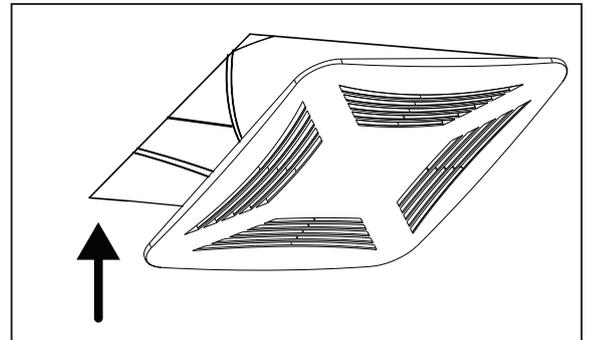
Run 120 V AC house wiring to the location of the fan. Use only UL-approved connectors (not included) to attach the house wiring to the wiring plate. Refer to the wiring diagram, and connect the wires as shown.



INSTALL GRILLE

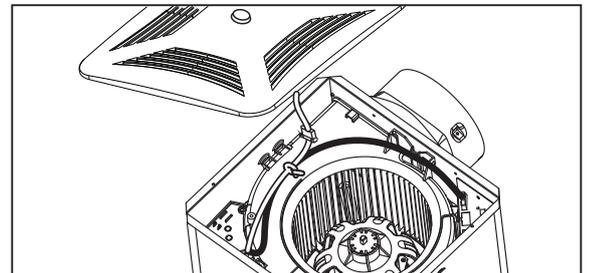
Install ceiling material to complete the ceiling construction and cut around the fan housing.

To attach the grille assembly to the fan housing, pinch the grille springs on the sides of the grille assembly and position the grille into the housing with the grille springs in the appropriate slots. Push the grille assembly towards the ceiling to secure.



OPTIONAL MOTION OR LIGHTED MOTION SENSING GRILLE

Insert the plug from the sensor system into the fan's control panel. When motion grille is connected, the black wire is no longer operational and gets bypassed. Attach the wire to the blower. To attach the grille assembly to the fan housing, pinch the grille springs on the sides of the grille assembly and position the grille into the housing with the grille springs in the appropriate slots. Push the grille assembly towards the ceiling to secure.

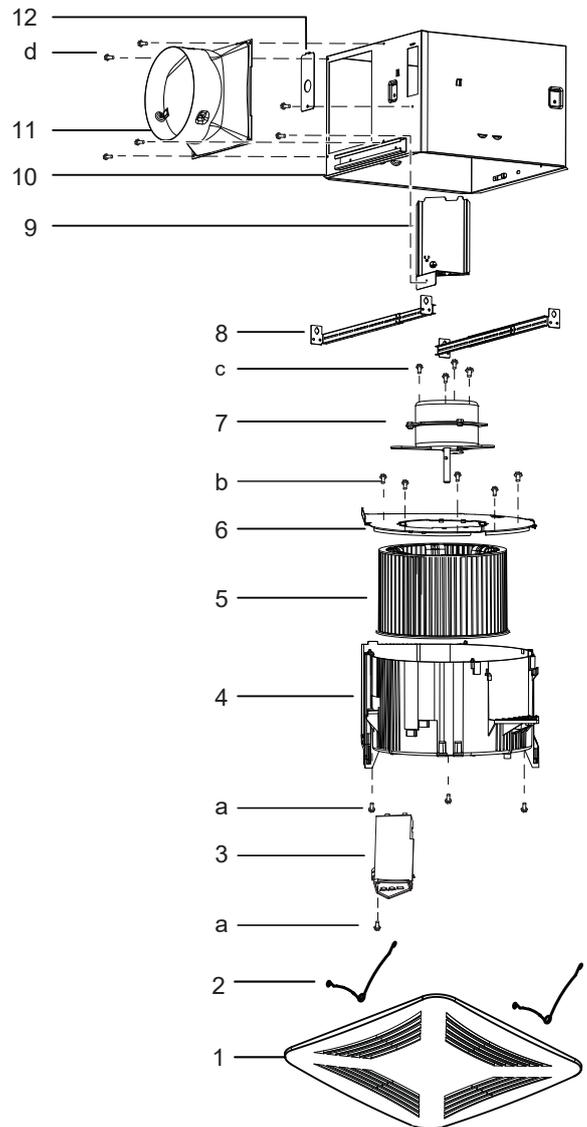


SERVICE PARTS

PART	PART NAME	Qty.
1	Grille Assembly (includes part 2)	1
2	Grille Spring	2
3	Control Box	1
4	Blower	1
5	Blower Wheel	1
6	Motor Plate	1
7	Motor	1
8	Hanger Bar Kit	4
9	Wire Panel / Harness Assembly	1
10	Housing	1
11	Damper / Duct Connector	1
12	Wiring plate	1
a	Screw	4
b	Screw	5
c	Screw	4
d	Screw	6

* Blower Assembly includes part 3, 4, 5, 6, 7, b, c

WARNING: Ensure that the fan is switched off from the supply mains before replacing.



WARRANTY

S&P USA Ventilation Systems, LLC. & S&P Canada Ventilation Products, Inc. warrants to the original end user of its products that our exhaust fans will be free from defects in materials and workmanship for a period of Five (5) years from the date of original purchase. 6 years warranty for motor and 5 years warranty for the remaining fan parts. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF SUITABILITY FOR A PARTICULAR PURPOSE.

During this five year period, S&P will, at its option, repair returned products or parts, or provide replacement products or parts, without charge, for any product or part which is found to be defective under normal use.

This warranty does not cover normal maintenance and service or any parts that have been subject to misuse, negligence, accident, improper maintenance or repair, faulty installation or installation contrary to recommended installation instructions.

S&P's obligation to repair or replace, at S&P's option, shall be the purchaser's sole and exclusive remedy under this warranty. No labor or materials are covered by this warranty. S&P shall not be liable for incidental damages arising out of or in connection with product use or performance.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

To qualify for warranty service, you must notify S&P at the address or telephone number stated below, provide the model number and part identification, and describe the nature of any defect in product or part. You may be required to ship a defective part to S&P. There will be no charge for shipping repaired or replacement parts from S&P to you if your address is in the United States or Canada. At the time of requesting warranty service, you must present evidence of the original purchase date.



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VENTILATION®**

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