



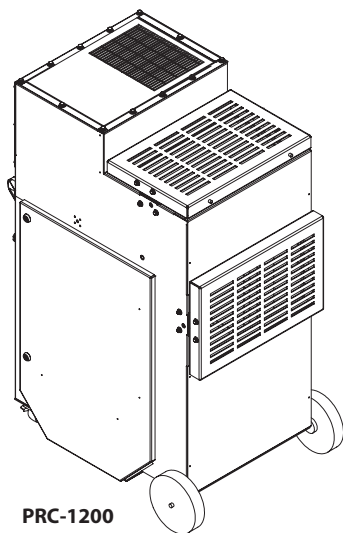
PRC Series

Portable Room Cleaner

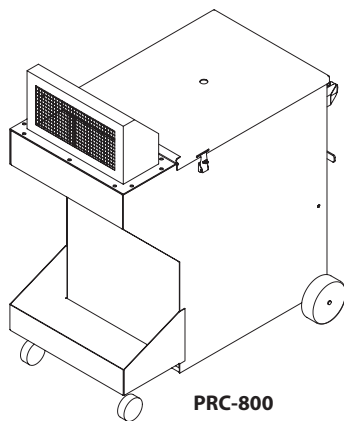
Owner's Manual

Installation, Operation & Maintenance

Revised 04-30-2020



PRC-1200



PRC-800

PRC Series

Portable Room Cleaner

Owner's Manual

Installation, Operation & Maintenance

Models:

PRC-1200

1200 CFM

PRC-800

800 CFM

Manufactured by:

RoboVent

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Important Safety Instructions



Failure to follow all instructions may result in electric shock, bodily injury and/or destruction of the unit.



Use of controls, adjustments, or performance of procedures other than those specified herein, may result in electrical shock.

IMPORTANT SAFETY INSTRUCTIONS

1. Read all instructions thoroughly.
2. Heed all warnings.
3. Do not block intake or exhaust vents. Keep the exhaust vent free from debris and materials that could restrict airflow. Prolonged restriction could damage the motor and electrical components. Any blockage of the air flow will decrease efficiency of this unit.
4. Refer all service matters to qualified service personnel. Servicing is required when the unit is damaged in any way including the control panel, supply wiring or in the case of excessive filter loading.



5. **Disconnect power before working on the motor or blower wheel. The motor or blower wheel should be disassembled only by a factory authorized technician.**



6. **Risk of serious personal injury or death!**
Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a screwdriver or test instrument) can accidentally touch the blower wheel.

Features of the PRC Series



FIGURE 1



FIGURE 2

- 1. Vertical Filter Design** (Standard):
Vertically aligned filters allow the dust to shed off the filter and fall directly down into the containment system.
- 2. Easy Access “Easy Load” Filter System**
For your convenience the RoboVent PRC is designed with a top load filter system, which allows the filter to be removed in seconds. Figure 1.
- 3. Heavy Duty Construction**
Unlike most portables, the RoboVent PRC is made from heavy 12 and 16 ga steel. Seams are robotically welded to assure there are no leaks or cracks that could contaminate the facility air system.
- 4. Locking Wheels**
The RoboVent PRC comes standard with two stage locking castor wheels which lock the unit in all four directions. Figure 2.
- 5. Built-In Acoustical Sound Plenum**
High Density Foam Barriers and Built-In Acoustical Bass Traps have been engineered into the RoboVent PRC design to make it one of the quietest portables in today's market. The RoboVent PRC's quiet 70 dBA sound rating will not add to your shop's ambient noise level.
- 6. Durable Powdercoat Finish**
For long lasting durability the RoboVent PRC is fully powder coated with an industrial grade textured finish.
- 7. High Performance Blower**
The aluminum Acoustafoil blower is the heart of the RoboVent PRC. This High Performance Blower is engineered for High Output air volume.

**FIGURE 3****8. Carbon Pre-Filter**

Your RoboVent PRC is equipped with a MERV 8 Carbon Pre-Filter that will remove larger contaminants and odors, and help extend the life of your primary Cartridge Filter. Figure 3.

9. A15 PleatLock Premium Cartridge Filter

A15 PleatLock premium filter media is a proprietary cellulose polyester blend with an initial Minimum Efficiency Reporting Value of 15 (MERV15). The base media is enhanced with a direct-spray nanofiber to promote surface loading during operation and dust release during pulse-cleaning.

Optional HEPA E11 (>95% Efficiency, comparable to N95 Mask) and HEPA H13 (>99.95% Efficiency, comparable to P100 Mask) are also available.

Receiving & Inspection

Receiving & Inspection

Compare the number of items received against the carrier's bill of lading. Inspect all items for apparent damage. Immediately report any shortages or obvious damage to the carrier and to your local RoboVent Representative, call the factory at **1-(888)-762-6836**, or email: **customer.service@robovent.com**.

Check that all items have been received against the packing lists. Further inspect the unit and components for hidden damage. Again, report any shortage or damage to the carrier and to your local RoboVent Representative.

The filter cartridges are typically shipped installed in your collector. Be sure to check them for alignment, as they may have shifted during transit. If they have shifted, it is possible that damage may have been done. Remove all filter cartridges and inspect thoroughly.

Note: Do not return any damaged components without first contacting your RoboVent Representative to obtain a Returned Goods Authorization (RGA).

Small Parts

Carefully inspect all packing material before it is discarded, to be sure that no small parts have been missed.

**FIGURE 4****Electrical Hook-Up**

The RoboVent PRC comes ready to plug into a 20 amp, 110 volt service. Figure 4. (If ordered as a 480 volt, 3-Phase model the connection must be made by a licensed electrician and in accordance with NEC and all applicable local codes.) Amperage requirements of the single phase, 110 volt model are found on the product specifications guide.

General Operation

The RoboVent PRC has been designed specifically to create a horizontal suction which diverts harmful particulate away from the operator. The unit draws air through a secondary internal baffling design that causes separation and deposition of the larger, heavier dust particles. These particles are diverted to the dust storage device thus reducing the dust load to the filter cartridges. Finer particles are collected on the surface of the filter cartridges but will eventually be dislodged through the manual pulsing system (if purchased). Clean air is then drawn through the exhaust plenum as clean air into the desired air.

To operate your new RoboVent PRC, you will simply need to set your position and plug it into a dedicated 110 volt 20 amp plug.

General Maintenance Procedures



FIGURE 5

Note: These procedures are to be performed while there is no welding occurring!

Replacing the Filter Cartridge

The A15 PleatLock premium filter of the RoboVent PRC can be back – pulsed countless times before it need to be replaced. Prior to making a decision to replace the filter, first follow the pulsing procedures outlined in General Operation in Section 400. The cartridge can also be taken out and manually cleaned with compressed air. If the RoboVent PRC still does not draw sufficiently, then replace the cartridge.

PRC-1200: To replace the filter cartridge, release the filter clamps by pulling outwards on the two levers located on each side of the filter. Figure 5. Slide the cartridge out the door and replace with a new RoboVent filter. Figure 6.



FIGURE 6

PRC-800: Replacing the filter cartridge is as easy as opening the top hatch door and removing the filter. Be sure to clean all dust and debris from the filter plenum before replacing the cleaned or new filter cartridge. Figure 7.

Replacement filters may be ordered by calling RoboVent at 1.888.ROBOVENT.

Blower Maintenance

The blower in your RoboVent PRC will require very little attention, although it is important to make sure it is kept clean. If your motor is fitted with grease nipples, they must be lubricated every six months.

Installation of a new blower wheel requires a certified RoboVent Technician to balance the wheel and motor. Contact 1.888.ROBOVENT.



FIGURE 7

RoboVent PRC is making excessive noise. Check the following:

1. Make sure the blower wheel is not hitting the venturi.
2. Check that all motor bolts are securely tightened.
3. Make sure motor bearings are good. (Amperage rating will be higher than normal.)
4. Blower wheel could be out of balance. If the blower wheel has gone out of balance, there will be excessive vibration. In this case, please contact the RoboVent Technical Department at 1.888.ROBOVENT.

Little or no suction across intake. Check the following:

1. Cartridge filter is loaded. Review the pulsing instructions in General Operation Section 400. With the air hooked up press the Solenoid Plunger 25-30 times (if applicable) with a 3-5 second spacing between each pulse. Make sure the unit is turned off for this process.



Improving Lives through Clean Air™

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