Powermatic PM1200

Powermatic PM1200 Air Filtration System

Instruction Manual

Model: PM1200

1. Product Overview

The Powermatic PM1200 Air Filtration System is designed to improve air quality in woodworking environments by trapping airborne particles. It features a two-stage filtration process, multiple blower speeds, and convenient control options.

- **Two-Filter System:** Effectively traps 99% of 5-micron particles and 85% of 1-micron particles.
- **Adjustable Airflow:** Three blower speeds (547, 706, 1196 CFM) allow modification of air circulation.
- **Remote Operation:** Includes a radio-frequency remote control for operation without direct line-of-sight.
- **Programmable Timer:** Features nine settings for continuous operation up to nine hours, with automatic shut-off.
- **Easy Filter Access:** Filter guards can be removed without tools for quick filter maintenance.
- **Filter Change Indicator:** A light illuminates after 200 hours of use to remind users to replace filters.



Figure 1: Powermatic PM1200 Air Filtration System, showing the main unit with its yellow housing and black grilles.

2. Setup and Installation

Careful installation ensures optimal performance and safety of your air filtration system.

2.1 Unpacking Contents

Verify all components are present before beginning installation:

- Air filtration unit
- Remote control with mounting bracket
- Nine-volt battery (for remote)
- Four eye bolts
- Four hex nuts
- Four flat washers
- Instruction manual
- Warranty card

2.2 Mounting the Unit

The PM1200 is designed for ceiling suspension. Use the provided eye bolts, hex nuts, and flat washers to securely mount the unit. Ensure the mounting structure can safely support the unit's weight (approximately 67 pounds) and any associated vibration during operation. Consult local building codes and safety standards for proper overhead mounting techniques.



Figure 2: The PM1200 unit featuring four eye bolts on its top surface, designed for secure suspension from a shop ceiling.

2.3 Initial Filter Installation

The filter guards are designed for tool-free removal and installation. Ensure both the outer (electrostatic, disposable) and inner (high-mesh pocket) filters are correctly seated before operating the unit. Refer to the Maintenance section for details on filter types and orientation.



Figure 3: Illustration showing the filter guard sliding off the unit, providing instant access to the internal filters for

installation or replacement.

3. Operation

The PM1200 can be operated directly from the control panel on the unit or via the included radio-frequency remote control.

3.1 Control Panel and Remote

The control panel and remote offer identical functionality:

- **Power On/Off:** Activates or deactivates the unit.
- **Speed Selection:** Choose between Low (547 CFM), Medium (706 CFM), or High (1196 CFM) to adjust airflow based on shop conditions.
- **Timer Settings:** Program the unit to run for up to 9 hours, with 9 distinct timer intervals. The unit will automatically shut off after the selected duration.
- **Filter Change Indicator:** A light will illuminate after approximately 200 hours of operation, signaling that filter inspection or replacement is recommended.



Figure 4: Close-up view of the PM1200's control panel and the accompanying radio-frequency remote control, highlighting speed, timer, and power buttons.

The radio-frequency remote control does not require direct line-of-sight to the unit, allowing for flexible operation within your workspace.

4. Maintenance

Regular maintenance ensures the longevity and efficiency of your Powermatic PM1200 Air Filtration System.

4.1 Filter Access and Replacement

The PM1200 utilizes a two-filter system:

1. **Outer Filter:** This is an electrostatic, disposable filter designed to capture larger 5-micron particles. It should be replaced when the filter change indicator light illuminates or when visibly soiled. The recommended size for replacement intake filters is 24.0 x 12.0 x 1.0 inches (WxHxD).

2. **Inner Filter:** This filter captures smaller 1-micron particles and features high-mesh pockets. It does not typically require replacement but can be cleaned periodically by blowing with compressed air or vacuuming.

To access the filters, simply remove the front and rear filter guards by hand; no tools are required.



Figure 5: Exploded view of the PM1200, illustrating the two-filter system with the outer and inner filters clearly visible, along with the removable filter guard.

4.2 Diffusion Filter

The diffusion filter disperses exhausted air evenly. This filter can be periodically cleaned with a vacuum or compressed air to maintain efficient operation.



Figure 6: The PM1200 unit with the diffusion filter removed, showing its structure designed to disperse filtered air.

5. Troubleshooting

This section addresses common issues you might encounter with your PM1200 Air Filtration System.

5.1 Power Issues

- **Unit does not power on:** Check the power cord connection. Ensure the outlet is functional. The unit is equipped with a re-settable pop-out fuse that protects against power surges. If the unit does not power on after checking connections, inspect the fuse and reset if necessary.

5.2 Reduced Airflow

- **Airflow seems low:** Check the filter change indicator light. If illuminated, inspect and replace the outer filter or clean the inner filter as described in the Maintenance section. Ensure no obstructions are blocking the intake or exhaust grilles.

5.3 Remote Control Malfunction

- **Remote not responding:** Replace the nine-volt battery in the remote control. Ensure there are no significant radio frequency interferences in the operating area.

6. Specifications

Feature	Specification
Model Number	PM1200
Part Number	1791330
Dimensions (L x W x H)	33 x 25 x 13 inches
Item Weight	67 pounds
Power Source	Corded Electric
Voltage	115V
Blower Speeds (CFM)	Low: 547, Medium: 706, High: 1196
Outer Filter Efficiency	99% of 5-micron particles
Inner Filter Efficiency	85% of 1-micron particles
Sound Level	65 dB
Timer Settings	Up to 9 hours (9 settings)
Material	Steel
Warranty	5 Year

7. Warranty and Support

7.1 Product Warranty

The Powermatic PM1200 Air Filtration System is covered by a **5-year warranty**. This warranty covers defects in materials and workmanship under normal use. Please refer to the warranty card included with your product for full terms and conditions.



Figure 7: Graphic indicating the 5-year warranty coverage for the Powermatic PM1200 Air Filtration System.

7.2 Customer Support

For technical assistance, parts, or warranty claims, please contact Powermatic customer support. Contact information can typically be found on the official Powermatic website or on the warranty card provided with your product.

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