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XPOWER AP-1800D

XPOWER AP-1800D MEGA Air Purification System

User Manual

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1. Introduction

The XPOWER AP-1800D MEGA Air Purification System is a commercial-grade HEPA air scrubber designed for large indoor spaces. It provides powerful and efficient air filtration, removing airborne contaminants to improve indoor air quality. Featuring a variable speed DC brushless motor and a 4-stage HEPA filtration system, this unit is built for heavy-duty, continuous operation in various environments.
This manual provides essential information for the safe and effective use, maintenance, and troubleshooting of your XPOWER AP-1800D Air Purification System.

2. Safety Information

WARNING: Read and understand all instructions before using this appliance. Failure to follow the warnings and instructions may result in electric shock, fire, or serious injury.

- Always connect the unit to a properly grounded outlet.
- Do not operate the unit with a damaged cord or plug.
- Keep children and pets away from the unit during operation.
- Do not use the unit in standing water or excessively wet environments.
- Ensure all filters are correctly installed before operation.
- Unplug the unit before performing any maintenance or filter changes.
- Do not block air intake or exhaust vents.
- Use only XPOWER authorized replacement parts and filters.

3. Setup

The AP-1800D is designed for easy transport and setup. Follow these steps to prepare your unit for operation:

1. **Unpacking:** Carefully remove the air purification system from its packaging. Inspect the unit for any signs of damage.
2. **Positioning:** Place the unit on a stable, level surface in the desired area. Ensure there is adequate space around the air intake and exhaust for optimal airflow. The unit features soft-ride wheels and a push handle for easy mobility.
3. **Filter Installation:** The unit comes with a multi-stage filtration system. Ensure all filters (Pre-Filter, Pleated Filter, Activated Carbon Filter (optional), and HEPA Filter) are correctly seated in their respective compartments. Refer to the 'Maintenance' section for detailed filter installation instructions.
4. **Power Connection:** Plug the power cord into a grounded electrical outlet. The unit is equipped with a 12A circuit breaker for safety.



Figure 1: Easy Operation Panel of the XPOWER AP-1800D. This image highlights the PM2.5 air quality meter, 12A circuit breaker, pressure gauge, power dial, and power switch. It also shows the handle, control panel, storage compartment, wheels for easy mobility, and kick plate on the unit's exterior.

4. Operation

Operating your XPOWER AP-1800D is straightforward:

1. **Power On:** Flip the power switch to the 'ON' position. The unit will begin operation.
2. **Adjusting Airflow:** Use the variable speed dial to adjust the airflow (CFM) to your desired level. The advanced DC brushless motor allows for precise control, from maximum purification to quiet, continuous operation.
3. **Monitoring Air Quality:** The digital PM2.5 air quality meter on the control panel provides real-time indoor air quality readings. The color-coded display indicates the current air quality status.
4. **Filter Status:** The pressure gauge monitors the filter's status. A drop in pressure indicates that the air is blocked or it's time to change the filters.
5. **Air Change Rate:** The AP-1800D can perform a full air change in a 1,000 sq. ft. room in approximately 5 minutes, providing rapid air purification.
6. **Quiet Operation:** For continuous air purification in occupied spaces, adjust the speed dial to a lower setting for

quieter operation while maintaining effective filtration.



Figure 2: Close-up of the pressure gauge on the XPOWER AP-1800D. The pressure gauge indicates the filter's status, signaling when filters may need replacement due to blockage or reduced airflow.

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Video 1: Overview of XPOWER Air Purifier features. This video demonstrates the functionality and benefits of an XPOWER air purifier, including its filtration capabilities and suitability for large spaces. While the video specifically mentions the AP-2500D, the operational principles and features shown are highly relevant to the AP-1800D model.

5. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your AP-1800D. Always unplug the unit before performing any maintenance.

1. **Filter Monitoring:** Regularly check the pressure gauge. When the pressure drops significantly, it indicates that the filters are becoming clogged and need attention.
2. **Filter Replacement:** The AP-1800D utilizes a 4-stage filtration system. The pre-filter and pleated filter should be checked and replaced more frequently than the HEPA filter. The optional activated carbon filter also requires periodic replacement to maintain odor control.
3. **Replacing Filters:** To replace filters, open the filter compartment. Remove the old filters and dispose of them properly. Insert new filters in the correct order: Pre-Filter, Pleated Filter, Activated Carbon Filter (if applicable), and then the HEPA Filter. Ensure they are securely seated to prevent air bypass.
4. **Cleaning the Unit:** Wipe down the exterior of the unit with a damp cloth as needed. Do not use harsh chemicals or abrasive cleaners.

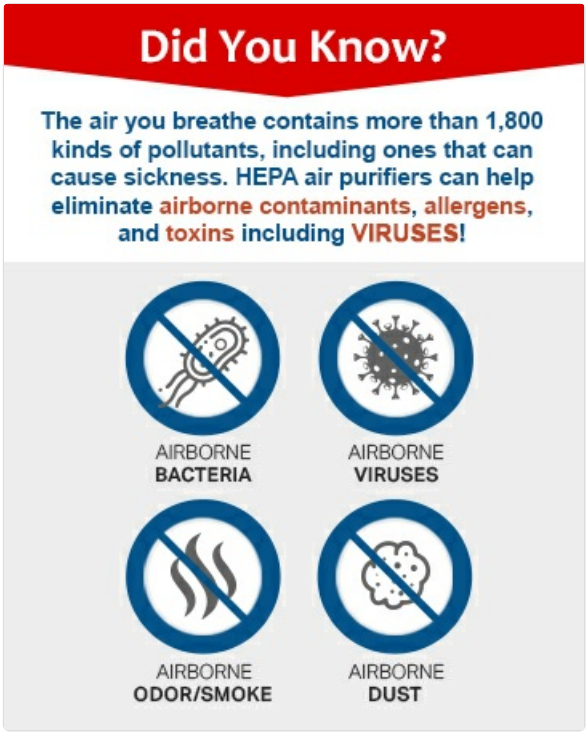


Figure 3: Diagram illustrating the 3-4 stage filtration system of the XPOWER AP-1800D. This exploded view shows the layers: Pre-Filter (for larger contaminants), Pleated Filter (for dust and debris), Activated Carbon Filter (optional, for odors and VOCs), and the HEPA Filter (for fine particulate).

6. Troubleshooting

If you encounter issues with your AP-1800D, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	No power, tripped circuit breaker, faulty power switch	Check power outlet, reset 12A circuit breaker, ensure power switch is ON.
Low airflow	Clogged filters, blocked air intake/exhaust	Check pressure gauge, replace filters as needed, clear any obstructions from vents.
Unusual noise	Loose components, foreign object in fan, motor issue	Turn off and unplug the unit. Inspect for loose parts or foreign objects. If noise persists, contact customer support.
Poor air quality readings	Filters need replacement, sensor malfunction	Replace filters. If readings remain poor, contact customer support.

If the problem persists after attempting these solutions, please contact XPOWER customer service for further assistance.

7. Specifications

- **Model Number:** AP-1800D
- **Airflow (CFM):** 1100
- **Filtration Stages:** 4-stage (Pre-Filter, Pleated Filter, Activated Carbon Filter (optional), HEPA Filter)
- **Motor Type:** DC Brushless Motor

- **Power Source:** AC
- **Max Amp Draw:** 3.5 Amps
- **Control Method:** Touch (Variable Speed Dial)
- **PM2.5 Sensor:** Digital, Color-Coded
- **Pressure Gauge:** Included for filter status monitoring
- **Product Dimensions:** 22.6 x 25.2 x 37.2 inches
- **Item Weight:** 76 Pounds
- **Color:** Black
- **Safety Certification:** ETL / CETL

8. Warranty & Support

Warranty: The XPOWER AP-1800D Air Purification System comes with a 1-year limited warranty (US purchases only). This warranty covers defects in materials and workmanship under normal use.
Customer Support: For any questions, technical assistance, or warranty claims, please contact XPOWER's California-based customer service team. They are available to provide comprehensive support and ensure a first-class customer experience.
Please visit the official XPOWER website or refer to your purchase documentation for the most current contact information and detailed warranty terms.

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