

Philips AC4220/12

Philips Pure Protect 4200 Series Smart HEPA Air Purifier (AC4220/12) - User Manual

Model: AC4220/12

1. INTRODUCTION

The Philips Pure Protect 4200 Series Smart HEPA Air Purifier (Model AC4220/12) is designed to provide clean and healthy air in your indoor environment. This advanced air purification system effectively removes pollutants, allergens, and odors, contributing to a more comfortable living space. It is suitable for rooms up to 156 m² and features a multi-stage filtration system including HEPA and active carbon filters, along with smart controls for convenient operation.

This manual provides essential information for the safe and efficient use of your air purifier. Please read it thoroughly before operating the device and retain it for future reference.

2. IMPORTANT SAFETY INFORMATION

Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and injury.

- Do not block the air inlet or outlet.
- Ensure the appliance is placed on a stable, level surface.
- Keep the appliance away from water or other liquids.
- Unplug the appliance before cleaning or performing any maintenance.
- Do not use the appliance if the power cord or plug is damaged.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

3. PRODUCT OVERVIEW

3.1 Main Unit







Figure 1: Front view of the air purifier, showing its sleek design.





Figure 2: Side view of the air purifier, highlighting its compact form factor.





Figure 3: Back view of the air purifier, showing the air intake area.

3.2 Control Panel



Figure 4: Top control panel with digital display and touch buttons.

The control panel located on the top of the unit features a digital display showing PM2.5 levels and various indicators. Touch-sensitive buttons allow you to control power, fan speed, and special modes.

3.3 Filtration System



Figure 5: Exploded view of the multi-layer filter system.

The air purifier utilizes a multi-stage filtration system, including a HEPA filter to capture fine particles and an active carbon filter to absorb gases and odors.

4. SETUP

4.1 Unpacking

1. Remove the air purifier from its packaging.
2. Remove all packing materials, including any protective films or tapes.

4.2 Filter Installation

Before first use, ensure all filters are unwrapped and correctly installed.

1. Open the filter compartment cover, usually located at the back or bottom of the unit.
2. Remove any plastic packaging from the HEPA and active carbon filters.
3. Insert the filters into the appliance according to the markings or instructions inside the compartment. Ensure they are seated correctly.
4. Close the filter compartment cover securely.



Figure 6: Proper filter installation.

4.3 Placement

Place the air purifier on a stable, level surface, ensuring there is at least 20 cm (8 inches) of clear space around the air inlet and outlet for optimal airflow.



Figure 7: Air purifier in a living room setting.

4.4 Power Connection

Plug the power cord into a suitable electrical outlet.

4.5 App Connection (Optional)

For smart control features, download the Philips Clean Home+ app from your device's app store. Follow the in-app instructions to connect your air purifier to your Wi-Fi network.



Figure 8: Controlling the air purifier with the mobile app.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the power button on the control panel to turn the appliance on or off. The display will illuminate when the unit is active.

5.2 Fan Speed Settings

The air purifier offers 5 fan speed settings. Press the fan speed button to cycle through the available speeds: Speed 1, 2, 3, 4, and Turbo. The current speed will be indicated on the display.

5.3 Special Modes

- **Sleep Mode:** Press the sleep mode button to activate. In this mode, the fan speed is reduced, and the display lights dim for quiet operation, ideal for nighttime use. The noise level in sleep mode is approximately 15 dB.
- **Auto Mode:** The air purifier automatically adjusts its fan speed based on the detected air quality (PM2.5 and gas levels).



Figure 9: Noise levels comparison, showing quiet operation in sleep mode.

5.4 Child Lock

To prevent accidental changes to settings, activate the child lock feature by pressing and holding the designated button

(refer to your control panel for specific icon). Repeat the action to deactivate.

5.5 Air Quality Display

The digital display shows real-time PM2.5 levels and can indicate gas levels, providing immediate feedback on your indoor air quality.



Figure 10: Air quality sensor display showing PM2.5 levels.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your air purifier.

6.1 Cleaning the Exterior

Wipe the exterior of the appliance with a soft, dry cloth. Do not use abrasive cleaners or solvents.

6.2 Filter Replacement

The air purifier will indicate when the filters need replacement. Filter lifespan varies depending on usage and air quality. Typically, filters should be replaced every 6-12 months, but in areas with high pollution, this may be more frequent.

1. Unplug the air purifier from the power outlet.
2. Open the filter compartment cover.
3. Remove the used filters and dispose of them properly.
4. Insert new, unwrapped filters into the compartment, ensuring correct orientation.
5. Close the filter compartment cover.
6. Plug in the air purifier and reset the filter lifetime indicator (refer to your specific model's instructions for reset procedure, usually by pressing and holding a button).



Figure 11: Replacing the air filter.

6.3 Sensor Cleaning

Periodically clean the air quality sensors (if accessible) with a dry cotton swab to ensure accurate readings. Refer to the specific location of the sensor on your model.

7. TROUBLESHOOTING

If you encounter issues with your air purifier, consult the following table before contacting support.

Problem	Possible Cause	Solution
Appliance does not turn on.	No power supply.	Check if the power cord is securely plugged into the outlet.
No air coming out of the outlet.	Filters are blocked or incorrectly installed.	Check and reinstall filters. Replace if heavily soiled.

Problem	Possible Cause	Solution
Unusual noise during operation.	Foreign object inside, or filters not properly seated.	Unplug and check for obstructions. Ensure filters are correctly installed.
Air quality reading is consistently high/low.	Sensors are dirty.	Clean the air quality sensors as described in the maintenance section.

8. SPECIFICATIONS

Feature	Detail
Brand	Philips
Model Number	AC4220/12
Dimensions (L x W x H)	28.5 x 28.5 x 52 cm
Weight	7 kg
Power Source	Corded Electric
Power Consumption	54 Watts
Noise Level (Sleep Mode)	15 dB
Filter Type	HEPA, Active Carbon
Control Method	App Control
Clean Air Delivery Rate (CADR)	600 m³/h
Recommended Room Size	Up to 156 m²

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official Philips website for your region. Keep your purchase receipt as proof of purchase.

For technical support, troubleshooting assistance, or to order replacement parts and filters, please contact Philips customer service or visit their support website. Contact details can typically be found in the product packaging or on the official Philips website.