

Lennox X5424

Lennox X5424 Healthy Climate PMAC-20C Expandable Air Filter Media User Manual

Model: X5424 | Brand: Lennox

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Lennox X5424 Healthy Climate PMAC-20C Expandable Air Filter Media. This MERV 16 filter is designed to enhance indoor air quality by effectively capturing airborne particles in your HVAC system. Please read these instructions carefully before proceeding with installation or maintenance.

2. PRODUCT OVERVIEW

The Lennox X5424 is a high-efficiency, expandable air filter media designed for use in compatible Lennox Healthy Climate air cleaner cabinets, specifically the PMAC-20C model. Its pleated design provides a large surface area for filtration, ensuring optimal performance.

- **MERV 16 Rating:** Provides superior filtration, capturing a high percentage of airborne particles including dust, pollen, mold spores, pet dander, and microscopic allergens.
- **Expandable Design:** Ships in a compact form and expands to fit the filter cabinet, maximizing filtration area.
- **Nominal Size:** 20 x 25 x 6 inches.
- **Actual Size:** Approximately 19.75 x 24.5 x 6 inches.



An image displaying the pleated structure of the Lennox X5424 expandable air filter media, designed for high-efficiency air filtration.

3. INSTALLATION INSTRUCTIONS

3.1 Safety Precautions

- Always turn off the power to your HVAC system at the thermostat and the main breaker before attempting to install or replace the filter.
- Wear appropriate personal protective equipment, such as gloves, to avoid contact with dust and debris.
- Ensure the filter housing is clean and free of obstructions before installation.

3.2 Step-by-Step Installation

1. **Power Off:** Turn off your furnace or air handler at the thermostat and the electrical breaker.
2. **Locate Filter Housing:** Identify the filter access door or slot on your HVAC system, typically near the furnace or air handler.
3. **Remove Old Filter:** Open the filter access door. Carefully slide out the old, dirty filter media. Note the direction of the airflow arrow on the old filter for correct installation of the new one.
4. **Unpack New Filter:** Remove the new Lennox X5424 expandable filter media from its packaging.
5. **Expand and Install:** Gently expand the filter media to its full size. Insert the expanded filter into the existing filter frame or the dedicated filter cabinet, ensuring the airflow arrow on the filter points in the same direction as the airflow in your HVAC system (typically towards the furnace/air handler).
6. **Secure Housing:** Close and secure the filter access door.
7. **Restore Power:** Turn the power back on to your HVAC system at the electrical breaker and thermostat.



The Lennox X5424 expandable air filter media shown partially extended from its protective packaging, illustrating its compact form before expansion.

4. OPERATION

Once installed, the Lennox X5424 filter operates continuously with your HVAC system to clean the air circulating through your home. Air passes through the pleated media, where particles are trapped, providing cleaner air and protecting your HVAC equipment from dust buildup. The MERV 16 rating indicates its high efficiency in capturing very fine particles.

5. MAINTENANCE

5.1 Filter Replacement Schedule

For optimal performance and indoor air quality, it is recommended to replace the Lennox X5424 filter media every 6 to 12 months. Factors such as pet ownership, allergies, local air quality, and HVAC system usage may necessitate more frequent replacement.

5.2 Replacement Procedure

The replacement procedure is identical to the installation steps outlined in Section 3.2. Always ensure the power to your HVAC system is off before replacing the filter.



The packaging for the Lennox Healthy Climate High Efficiency Air Cleaner Media, highlighting its MERV 16 rating and product details, useful for identifying replacement filters.

6. TROUBLESHOOTING

Issue	Possible Cause	Solution
Reduced Airflow	Filter is excessively dirty/clogged. Incorrect filter installation.	Replace the filter. Ensure the filter is installed correctly with the airflow arrow pointing in the right direction.
Increased Dust in Home	Filter is old or not sealing properly.	Replace the filter. Check for proper seating and ensure the filter access door is securely closed.
Unusual Noises from Filter Area	Filter not seated correctly in the frame/housing.	Turn off power, open housing, and re-seat the filter firmly. Ensure no parts are loose.

7. SPECIFICATIONS

Specification	Detail
Brand	Lennox
Model Number	X5424
Manufacturer Part Number	DF-110866
Nominal Size	20 x 25 x 6 inches
Actual Dimensions (L x W x Th)	25"L x 20"W x 6"Th (approx. 19.75" x 24.5" x 6" expanded)
MERV Rating	16
Material	Fiberglass, Paper, Polyester
Compatible Devices	Air Conditioner, Furnace (with compatible Healthy Climate air cleaner cabinet)
Item Weight	1.4 Pounds

8. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the official Lennox website or contact your authorized Lennox dealer. Keep your purchase receipt for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question