

[Manuals.plus](#) /

› [ClimaTek](#) /

› ClimaTek Refrigerator Defrost Timer User Manual - Model 216744500

ClimaTek 216744500

ClimaTek Refrigerator Defrost Timer User Manual

Model: 216744500

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your ClimaTek Refrigerator Defrost Timer, model 216744500. This component is designed as an upgraded replacement part for various refrigerator brands, including Frigidaire, ensuring efficient defrost cycles.



Figure 1: ClimaTek Refrigerator Defrost Timer (Model 216744500). This image shows the white plastic housing of the defrost timer, with visible electrical terminals and a central rotating shaft. Markings on the timer indicate electrical specifications and manufacturing details.

Key Features:

- **Direct Replacement:** Directly replaces part # 216744500.

- **High Quality:** Top quality ClimaTek replacement part, built to last.
- **Broad Compatibility:** Works with Frigidaire and other compatible refrigerator models.
- **Essential Component:** Critical for managing the defrost cycle in refrigerators, preventing ice buildup on evaporator coils.

2. SPECIFICATIONS

Attribute	Value
Product Dimensions	4 x 4 x 3 inches
Product Weight	4 ounces
Manufacturer	ClimaTek
ASIN	B0939L6KGC
Part Number	216744500
Voltage/Frequency	100/120V 50/60Hz
Current/Power	15A 1/2hp 12HOUR TIMER

Note: Specifications are subject to change without notice. Always verify compatibility with your appliance model before installation.

3. INSTALLATION AND SETUP

Important Safety Information: Before attempting any installation or repair, always disconnect power to the refrigerator by unplugging it from the wall outlet or turning off the circuit breaker. Failure to do so can result in serious injury or death from electrical shock.

1. **Locate the Existing Defrost Timer:** The defrost timer is typically located in the control panel area, behind the kick plate, or near the compressor compartment at the back of the refrigerator. Refer to your refrigerator's specific service manual for its exact location.
2. **Access the Timer:** Depending on its location, you may need to remove screws, panels, or the kick plate to gain access.
3. **Disconnect Wiring:** Carefully note the position and color of each wire connected to the old defrost timer. It is highly recommended to take a photograph before disconnecting. Disconnect all wires.
4. **Remove Old Timer:** Unmount the old defrost timer from its housing or bracket.
5. **Install New Timer:** Mount the new ClimaTek defrost timer in the same position as the old one.
6. **Connect Wiring:** Reconnect the wires to the new timer, ensuring they match the original configuration. Refer to your photograph if necessary. Ensure all connections are secure.
7. **Reassemble:** Replace any panels, screws, or kick plates that were removed.
8. **Restore Power:** Plug the refrigerator back into the wall outlet or turn on the circuit breaker.

If you are unsure about any step, it is recommended to consult a qualified appliance technician.

4. OPERATION

The ClimaTek Refrigerator Defrost Timer operates automatically to manage the defrost cycle of your refrigerator. It is designed to cycle between cooling and defrost modes at predetermined intervals, typically every 8 to 12 hours of compressor run time, initiating a defrost cycle that lasts approximately 20-30 minutes.

How it Works:

- During the cooling cycle, the timer allows power to the compressor and evaporator fan, cooling the refrigerator and freezer compartments.
- Once the set run time is reached, the timer switches power from the compressor to the defrost heater.
- The defrost heater melts any ice buildup on the evaporator coils.
- After the defrost cycle completes (either by time or by a defrost thermostat sensing temperature), the timer switches power back to the compressor, resuming the cooling cycle.

No user intervention is typically required for the operation of the defrost timer once installed correctly. Its function is entirely automatic.

5. MAINTENANCE

The ClimaTek Refrigerator Defrost Timer is a sealed unit and does not require routine maintenance or lubrication. Its lifespan is dependent on operational conditions and electrical stability.

General Refrigerator Maintenance Tips (to support defrost system):

- **Keep Condenser Coils Clean:** Dust and debris on condenser coils can reduce cooling efficiency and make the compressor work harder, potentially affecting the defrost cycle. Clean them annually.
- **Check Door Gaskets:** Ensure refrigerator and freezer door gaskets seal properly to prevent warm, moist air from entering, which can lead to excessive ice buildup.
- **Monitor Defrost Drain:** Periodically check that the defrost drain tube is clear and not clogged, allowing melted ice to drain properly.

If you suspect a malfunction with the defrost timer, refer to the Troubleshooting section.

6. TROUBLESHOOTING

If your refrigerator is experiencing issues related to defrosting, the defrost timer could be a contributing factor. Here are common symptoms and potential solutions:

Symptom	Possible Cause	Solution
Excessive ice buildup in freezer/on evaporator coils.	Defrost timer stuck in cooling cycle, faulty defrost heater, or faulty defrost thermostat.	Test the defrost timer for proper cycling. If it does not advance into defrost mode, replacement may be necessary. Also check heater and thermostat.
Refrigerator not cooling, but freezer is cold.	Evaporator coils completely iced over, blocking airflow to the refrigerator compartment.	Manually defrost the refrigerator (unplug for 24-48 hours). If ice returns quickly, the defrost system (including timer) needs inspection.

Refrigerator runs constantly.	Defrost timer stuck in defrost mode (less common), or other cooling system issues.	Check if the timer advances out of defrost mode. If it remains in defrost, it needs replacement.
-------------------------------	--	--

Note: Diagnosing defrost system issues can be complex. If you are not comfortable performing electrical tests, it is advisable to contact a professional appliance repair technician.

7. WARRANTY INFORMATION

ClimaTek products are manufactured to high standards of quality and durability. Specific warranty terms for this replacement part are typically provided by the retailer or distributor at the time of purchase. Please retain your proof of purchase for any warranty claims.

For detailed warranty information, please refer to the documentation provided with your purchase or contact the seller directly. This product is intended as a replacement part and its warranty may be limited to defects in material and workmanship.

8. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding the ClimaTek Refrigerator Defrost Timer (Model 216744500), please contact your point of purchase or the manufacturer.

Manufacturer: ClimaTek

While direct contact information for ClimaTek is not provided in this manual, you can often find support resources on the official ClimaTek website or through the retailer where you purchased the product.

When contacting support, please have your product model number (216744500) and purchase details ready.

© 2024 ClimaTek. All rights reserved.

This manual is for informational purposes only. ClimaTek is not responsible for any damages or injuries resulting from improper installation or use of this product.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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