

Ranco K57-H5524

Ranco K57-H5524 Refrigerator Cooling Thermostat User Manual

Model: K57-H5524 | Brand: Ranco

1. PRODUCT OVERVIEW

The Ranco K57-H5524 is an original equipment quality cooling thermostat designed for refrigerators with automatic defrost functionality. This component regulates the internal temperature of your appliance, ensuring optimal cooling performance and efficient defrost cycles. It is compatible with various refrigerator models from brands such as Whirlpool, Bauknecht, and AEG.



Image 1: The Ranco K57-H5524 refrigerator cooling thermostat. This image shows the main body of the thermostat with its control shaft and electrical terminals, along with the coiled capillary tube.

2. IMPORTANT SAFETY INFORMATION

Handling the Capillary Tube: The capillary tubes of thermostats are filled with a refrigerant fluid. Therefore, they must **not** be bent or kinked sharply. Improper handling can damage the new replacement part, rendering it unusable and voiding any exchange, warranty, or return eligibility.

If you need to coil a capillary tube, do not twist it. Instead, gently coil it around a round object with a diameter of 6 to 9 cm (approximately 2.4 to 3.5 inches), applying light thumb pressure. Always ensure the tube remains free from sharp bends or kinks.

3. INSTALLATION INSTRUCTIONS

Installation of the Ranco K57-H5524 thermostat should be performed by a qualified technician. Ensure the appliance is disconnected from the power supply before beginning any installation work.

3.1 Key Dimensions and Connections

- **Capillary Tube Length:** 900 mm (approximately 35.4 inches). When replacing, ensure the new capillary tube matches the length of the original.
- **Electrical Connections:** The thermostat features 3 x 4.8 mm AMP horizontal connections, plus housing connections.



Image 2: Diagram illustrating the thermostat's connection types and capillary tube. This image highlights the capillary tube and different terminal sizes (4.8mm and 6.3mm) for electrical connections, emphasizing the importance of matching capillary tube length during replacement.

3.2 Replacement Guidance

When replacing an existing thermostat, carefully note the routing and attachment of the original capillary tube and electrical connections. Replicate these as closely as possible with the new Ranco K57-H5524 thermostat. Ensure all electrical connections are secure and properly insulated.

4. OPERATING PRINCIPLES

The Ranco K57-H5524 thermostat controls the refrigeration cycle based on temperature readings from its capillary tube, which is typically placed within the refrigerator compartment. It features automatic defrost functionality, managing the defrost cycles to prevent ice buildup.

4.1 Temperature Ranges

- **Cold Out:** -22 °C (-7.6 °F)
- **Cold In:** +3 °C (37.4 °F)
- **Warm Out:** -5.5 °C (22.1 °F)
- **Warm In:** +12.5 °C (54.5 °F)

These temperature points indicate the thermostat's switching thresholds for initiating and terminating cooling and defrost cycles.

5. MAINTENANCE

The Ranco K57-H5524 thermostat itself requires no routine maintenance. However, ensuring the cleanliness of your refrigerator can contribute to the longevity and efficiency of all its components, including the thermostat. Regularly clean the interior of your refrigerator and ensure proper airflow around the condenser coils. Products like Electrolux FrigoCare refrigerator cleaner (250 ml) can be used for general appliance hygiene.

6. TROUBLESHOOTING

If your refrigerator is not maintaining the correct temperature, cycling improperly, or experiencing issues with defrosting, the thermostat may be a contributing factor. Before assuming a thermostat failure, check other common issues such as:

- Ensuring the refrigerator door seals are intact and closing properly.
- Verifying that the condenser coils are clean and free of dust.
- Checking if the refrigerator is overloaded, obstructing airflow.
- Confirming the temperature setting is appropriate.

If these checks do not resolve the issue, consult a qualified appliance repair technician for diagnosis and replacement of the thermostat if necessary.

7. TECHNICAL SPECIFICATIONS

Model Number	K57-H5524 (Manufacturer Reference: 10001687)
Brand	Ranco

Capillary Tube Length	900 mm
Electrical Connections	3 x 4.8 mm AMP (horizontal) + Housing Connections
Cold Out Temperature	-22 °C
Cold In Temperature	+3 °C
Warm Out Temperature	-5.5 °C
Warm In Temperature	+12.5 °C
Package Dimensions	8.5 x 8.5 x 5.5 cm
Weight	0.09 grams
Power Source	Battery Powered <i>(Note: This may be an error in the source data, as refrigerator thermostats are typically mains powered.)</i>

8. COMPATIBILITY

The Ranco K57-H5524 thermostat is compatible with various refrigerator models. It is specifically suitable for:

- Whirlpool/Bauknecht Group (Part Number: 481927128477)
- Electrolux/AEG Group (Part Number: 899671069603/1)

Known compatible appliance models include:

- AEG SAN1605IU (Model 62131315700, from 1988)
- AEG 621313157GB (Model 62131396200, from 1993)
- AEG SAN1600USB (Model 62137003000, from 1990)

If you are unsure about compatibility, it is recommended to contact the seller or a qualified technician with your appliance's model and serial number for verification before purchase.

9. WARRANTY AND SUPPORT

Specific warranty information for the Ranco K57-H5524 thermostat is not detailed in the provided product information. Please refer to the retailer's return policy or contact the seller directly for warranty terms and support inquiries. For technical assistance or questions regarding installation and compatibility, it is advisable to consult a professional appliance repair service.

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

Open the live page

<https://manuals.plus/asin/B07DQQ12DT>

More documents and user manuals: <https://manuals.plus/>