Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

AMECA 1377

AMECA High Limit Thermostat Instruction Manual

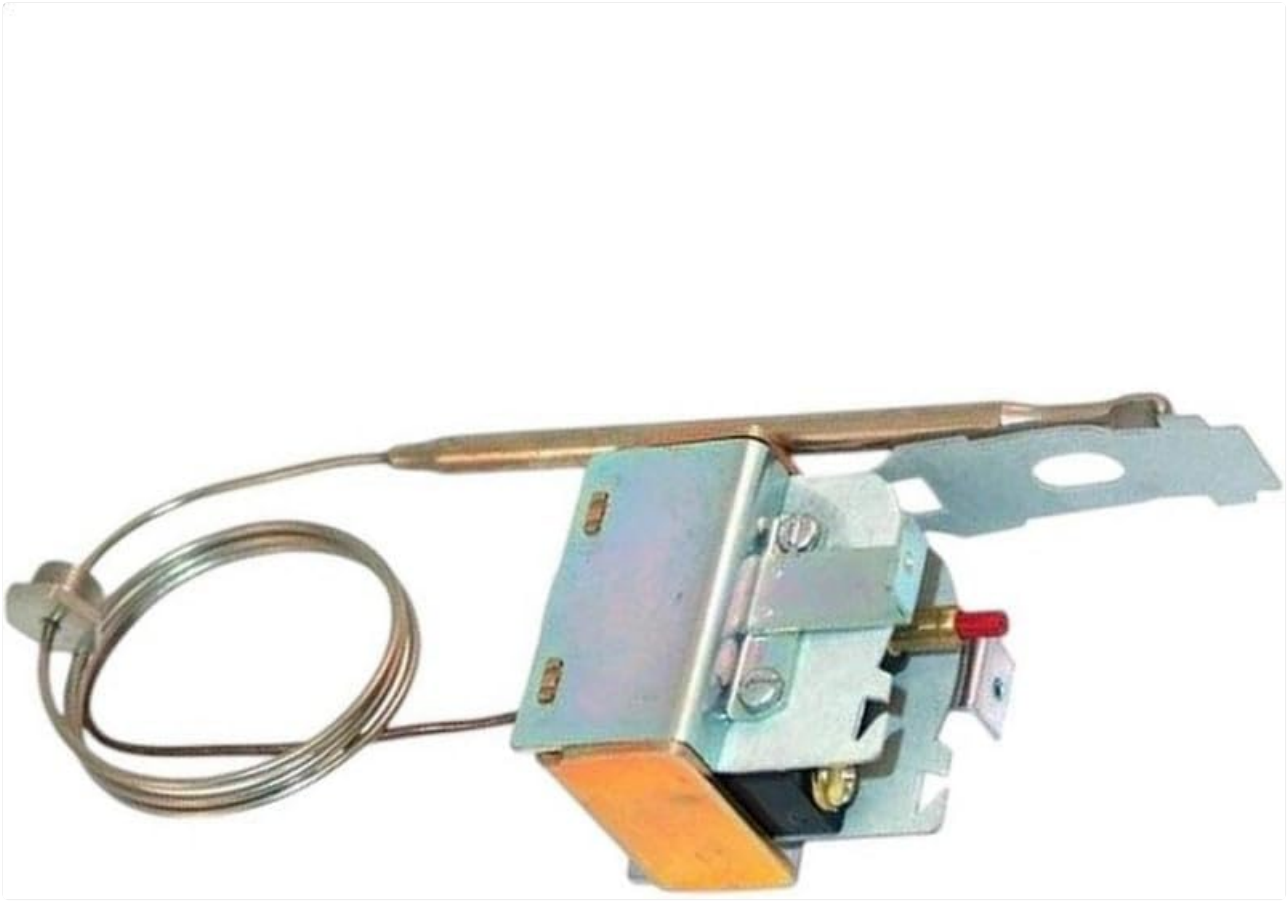
For Wells and Intedge Fryer Models F45, F48, F49, F55, F58, F67, F68, F77, F78

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your AMECA High Limit Thermostat. This component is designed as a critical safety device for electric fryers, preventing overheating by cutting off power if the temperature exceeds a safe limit. Please read these instructions thoroughly before installation or use to ensure safe and efficient operation.

Product Overview

The AMECA High Limit Thermostat (Part Number 1377) is a manual reset safety device. It is specifically designed to replace many old Wells part numbers and is applicable to all Wells electric fryers (new or old as of 5/87) and certain Intedge fryers. Its primary function is to monitor the fryer's temperature and trip if it reaches a fixed high limit of 440°F, requiring a manual reset to restore power.



This image displays the AMECA High Limit Thermostat, featuring the main control unit, the capillary tube, and the temperature sensing bulb. The manual reset button is typically located on the main unit.

Key Components:

- **HI-LIMIT, RSW TYPE - LCHJ:** The main control unit housing the electrical contacts and reset mechanism.
- **Panel Nut:** Used for mounting the thermostat to the fryer's control panel.
- **Bulb (1/4" x 4-7/8" Nickel):** The temperature-sensing element that extends into the fryer's oil or heating area.
- **Cap (24"):** The capillary tube connecting the bulb to the main control unit.
- **Bracket (7):** Mounting bracket for securing the thermostat.
- **Manual Reset:** A button or lever that must be pressed to reset the thermostat after it has tripped due to an over-temperature condition.

Setup and Installation

Safety First: Always disconnect the fryer from its power source before attempting any installation or maintenance. Failure to do so can result in serious injury or electrical shock.

1. **Disconnect Power:** Ensure the fryer is unplugged or its circuit breaker is off.
2. **Access Thermostat:** Locate the existing high-limit thermostat in your fryer. This may require removing access panels.
3. **Remove Old Unit:** Carefully disconnect the wiring and remove the old thermostat, paying attention to how the bulb was positioned.
4. **Install New Unit:** Mount the new AMECA High Limit Thermostat (Part Number 1377) using the panel nut and bracket. Ensure it is securely fastened.

5. **Position Bulb:** Insert the new nickel bulb (1/4" x 4-7/8") into the designated sensing well or clip, ensuring it is fully seated and makes good thermal contact. The capillary tube (24") should be routed carefully to avoid kinks or damage.
6. **Wire Connections:** Connect the electrical wires to the new thermostat terminals according to the fryer's wiring diagram. If unsure, consult a qualified electrician or appliance technician.
7. **Secure Panels:** Reinstall any access panels removed during the process.
8. **Restore Power:** Once installation is complete and all connections are secure, restore power to the fryer.

Note: If you are not comfortable performing this installation, it is highly recommended to seek assistance from a certified technician.

Operating Instructions

The AMECA High Limit Thermostat is a safety device and does not control the fryer's operational temperature. It is designed to trip and cut power to the heating elements only if the fryer's temperature exceeds a critical safety threshold (fixed at 440°F).

- **Normal Operation:** During normal operation, the high-limit thermostat remains closed, allowing power to flow to the heating elements, which are controlled by the primary thermostat.
- **Over-Temperature Trip:** If the fryer's temperature reaches or exceeds 440°F, the high-limit thermostat will automatically open its contacts, interrupting power to the heating elements. The fryer will stop heating.
- **Manual Reset:** After the high-limit thermostat has tripped, it will not automatically reset. You must manually press the reset button (typically a small red button) located on the thermostat's body. Before resetting, allow the fryer to cool down and investigate the cause of the over-temperature condition.

Maintenance

Regular inspection of your high-limit thermostat can help ensure its continued reliability.

- **Visual Inspection:** Periodically inspect the thermostat, capillary tube, and bulb for any signs of physical damage, corrosion, or loose connections.
- **Bulb Cleanliness:** Ensure the temperature sensing bulb is clean and free of grease or debris, which could affect its ability to accurately sense temperature. Clean gently with a soft cloth if necessary (ensure fryer is cool and disconnected from power).
- **Do Not Tamper:** The temperature setting of this high-limit thermostat is fixed at 440°F and cannot be adjusted. Do not attempt to alter or bypass the thermostat, as this could compromise the safety of your fryer.

Troubleshooting

Symptom	Possible Cause	Solution

Symptom	Possible Cause	Solution
Fryer not heating, no power to elements.	High-limit thermostat has tripped.	1. Disconnect power to the fryer. 2. Allow the fryer to cool down completely. 3. Inspect the fryer for any issues that might have caused overheating (e.g., low oil level, blocked ventilation, faulty primary thermostat). 4. Locate the high-limit thermostat and press the manual reset button firmly. 5. Restore power. If it trips again immediately, there is an underlying issue that needs professional diagnosis.
High-limit thermostat trips frequently.	Underlying issue causing consistent overheating (e.g., faulty primary thermostat, heating element issue, poor ventilation).	This indicates a problem beyond the high-limit thermostat itself. Consult a qualified technician to diagnose and repair the root cause of the overheating. Do not bypass the high-limit thermostat.

Specifications

- **Type:** HI-LIMIT, RSW TYPE - LCHJ
- **Temperature Setting:** 440°F Fixed
- **Bulb Dimensions:** 1/4" Diameter x 4-7/8" Length
- **Bulb Material:** Nickel
- **Capillary Length:** 24"
- **Bracket Type:** 7
- **Reset Type:** Manual Reset
- **Manufacturer:** AMECA
- **Part Number:** 1377

Compatibility

This AMECA High Limit Thermostat (Part Number 1377) is compatible with a wide range of electric fryers. It is a direct replacement for many old Wells part numbers and is suitable for:

- **Wells Fryers:** All electric fryers, both new and old models (as of May 1987).
- **Intedge Fryers:** Applicable to specific Intedge fryer models.
- **Specific Wells Models:** F45, F48, F49, F55, F58, F67, F68, F77, F78.

If you have questions regarding compatibility with your specific fryer model or part numbers, please refer to the support section.

Support and Contact

For any questions regarding the installation, operation, or compatibility of your AMECA High Limit Thermostat, please contact your supplier or a qualified appliance technician. Providing your fryer's model and serial number will assist in faster support.
We are committed to assisting you with any inquiries about models or part numbers as soon as possible.

© 2024 AMECA. All rights reserved.

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/B0F1N4GGM5

More documents and user manuals: **https://manuals.plus/**