

EMKE THE230W-ADR

EMKE 300W Heating Element for Bathroom Radiators - Model THE230W-ADR Instruction Manual

Stainless Steel Heating Cartridge with Thermostat

1. INTRODUCTION

Thank you for choosing the EMKE 300W Heating Element. This product is designed to provide efficient and controlled heating for your bathroom radiators and towel warmers. This manual contains important information regarding the safe installation, operation, and maintenance of your heating element. Please read it thoroughly before use and retain it for future reference.

2. SAFETY INSTRUCTIONS

To ensure safe operation and prevent damage, please observe the following safety precautions:

- **Electrical Safety:** Ensure the power supply matches the specifications (220-240V 50Hz). Always disconnect power before installation or maintenance. Installation should be performed by a qualified electrician if you are unsure.
- **Water Protection:** The heating element has an IP44 protection rating, meaning it is protected against solid objects larger than 1mm and splashing water from any direction. However, it should not be submerged in water.
- **Proper Installation:** The heating element must be installed vertically at the bottom of the radiator/towel warmer. Ensure the G1/2 connection thread is securely sealed to prevent leaks.
- **Temperature:** The surface of the heating element and radiator can become hot during operation. Avoid direct contact to prevent burns.
- **Children and Pets:** Keep children and pets away from the operating heating element.
- **Intended Use:** Use this product only for its intended purpose as a heating element for bathroom radiators and towel warmers.

3. PRODUCT FEATURES

- **Power Output:** 300W, suitable for radiators with a power requirement below 600W.
- **Material:** Constructed from high-quality 304 stainless steel for rapid heating, rust resistance, and corrosion resistance.
- **Integrated Thermostat:** Allows for easy control of heating time and temperature.
- **Adjustable Temperature Range:** 30°C to 70°C.

- **Timer Function:** Includes 2-hour and 4-hour timer settings.
- **Protection Rating:** IP44 for splash water protection.
- **Cable Design:** Spiral cable for neat and flexible connection.

4. SPECIFICATIONS

Feature	Specification
Model Number	THE230W-ADR
Power	300 W
Voltage	220-240 V 50 Hz
Heating Bar Size	392 x Φ 12 mm
Cable Length	700 - 1400 mm
Color	White
Material	304 Stainless Steel
Protection Degree	IP44
Protection Level	Class I
Connection Thread	G1/2
Max. Operating Pressure	10 bar
Product Dimensions (L x W x H)	38 x 6 x 4 cm
Item Weight	480 g

5. SETUP AND INSTALLATION

Before installation, ensure the radiator system is drained and depressurized. The heating element is designed for vertical installation at the bottom of your towel warmer or electric radiator.

1. **Select the Correct Heating Element:** Ensure the 300W heating element is appropriate for your radiator. It is suitable for radiators with a power output below 600W. Refer to the table below for guidance on matching heating element power to radiator heat output.
2. **Prepare the Radiator:** Locate the G1/2 connection port at the bottom of your radiator. Ensure it is clean and free of debris.
3. **Insert the Heating Element:** Carefully screw the heating element into the G1/2 connection port. Use appropriate tools to tighten it securely, ensuring a watertight seal. Do not overtighten.
4. **Positioning:** The heating element must always be mounted at the lowest point of the towel rail/radiator to ensure proper heat distribution and prevent overheating.
5. **Electrical Connection:** Once the heating element is physically installed, connect the power plug to a suitable 220-240V 50Hz electrical outlet. Ensure the outlet is properly grounded and protected by a residual current device (RCD).

Montagehinweis

Der Heizstab muss immer an der Unterkante des Handtuchhalters montiert werden.

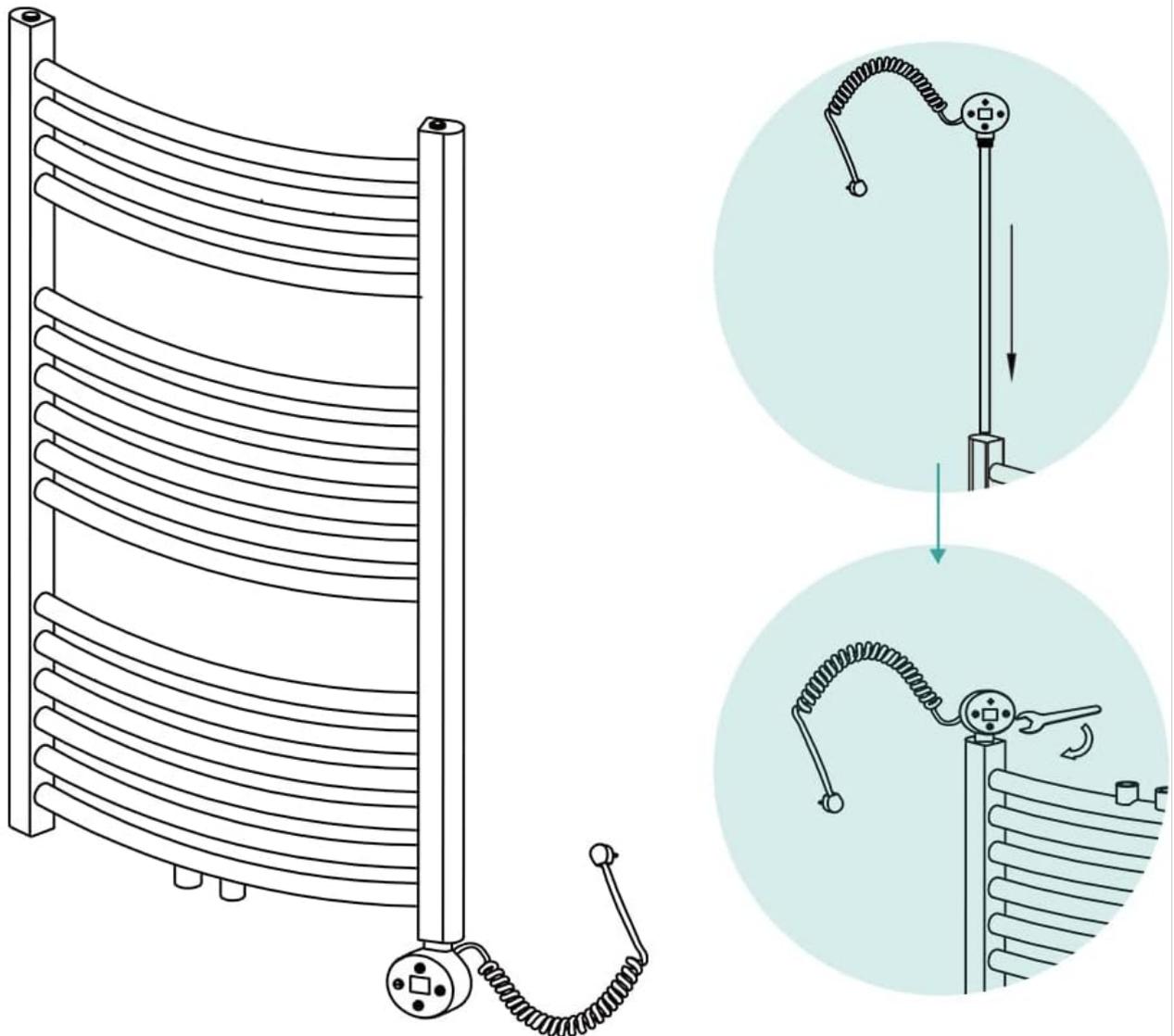


Figure 1: Installation Diagram. The heating element is inserted into the bottom connection of the towel warmer.

Bitte wählen Sie den passenden Heizstab aus.

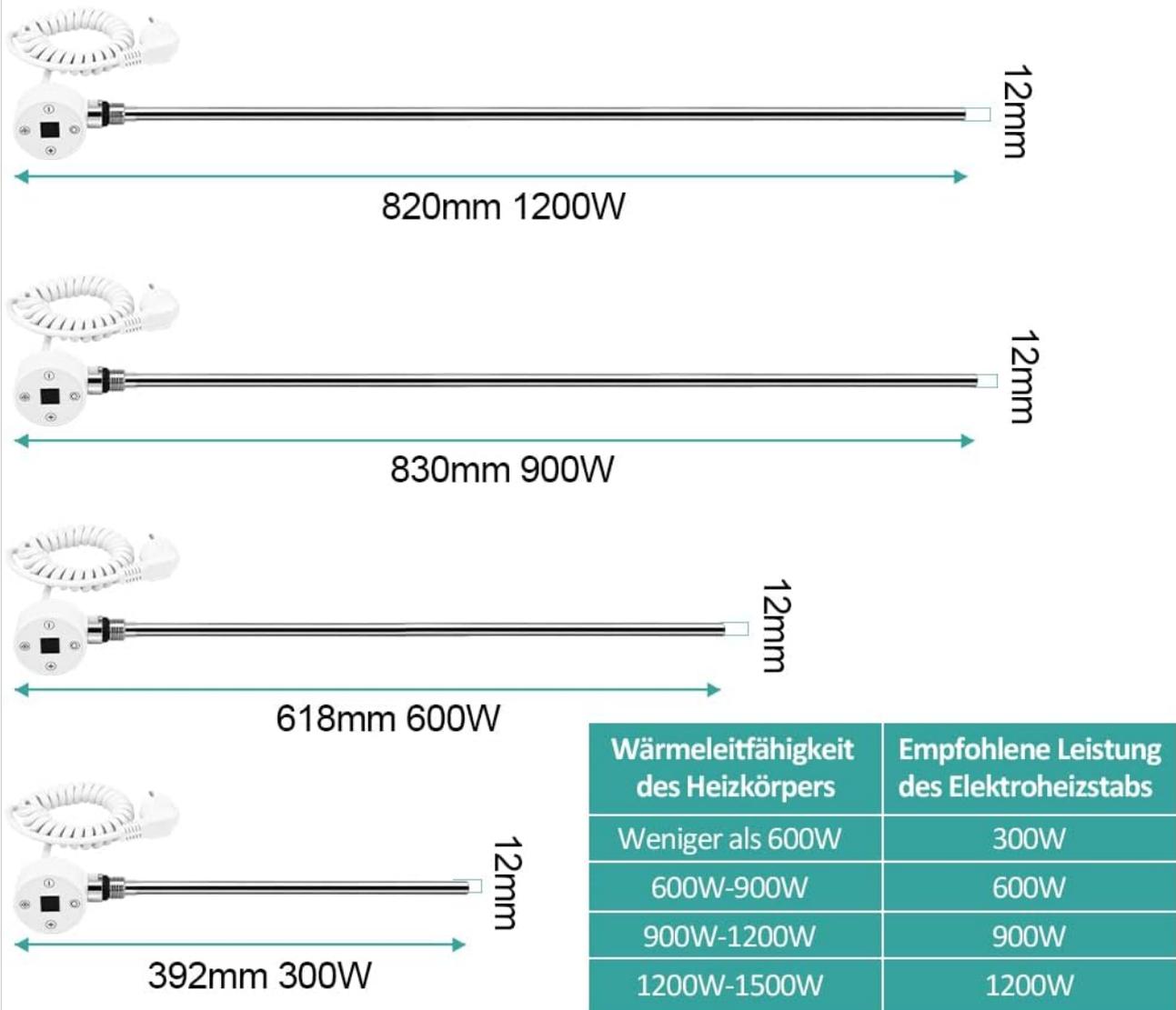


Figure 2: Heating Element Selection Guide. This image illustrates different heating element lengths (392mm for 300W, 618mm for 600W, 830mm for 900W, 820mm for 1200W) and a table recommending heating element power based on radiator heat output. For example, a 300W element is recommended for radiators under 600W.

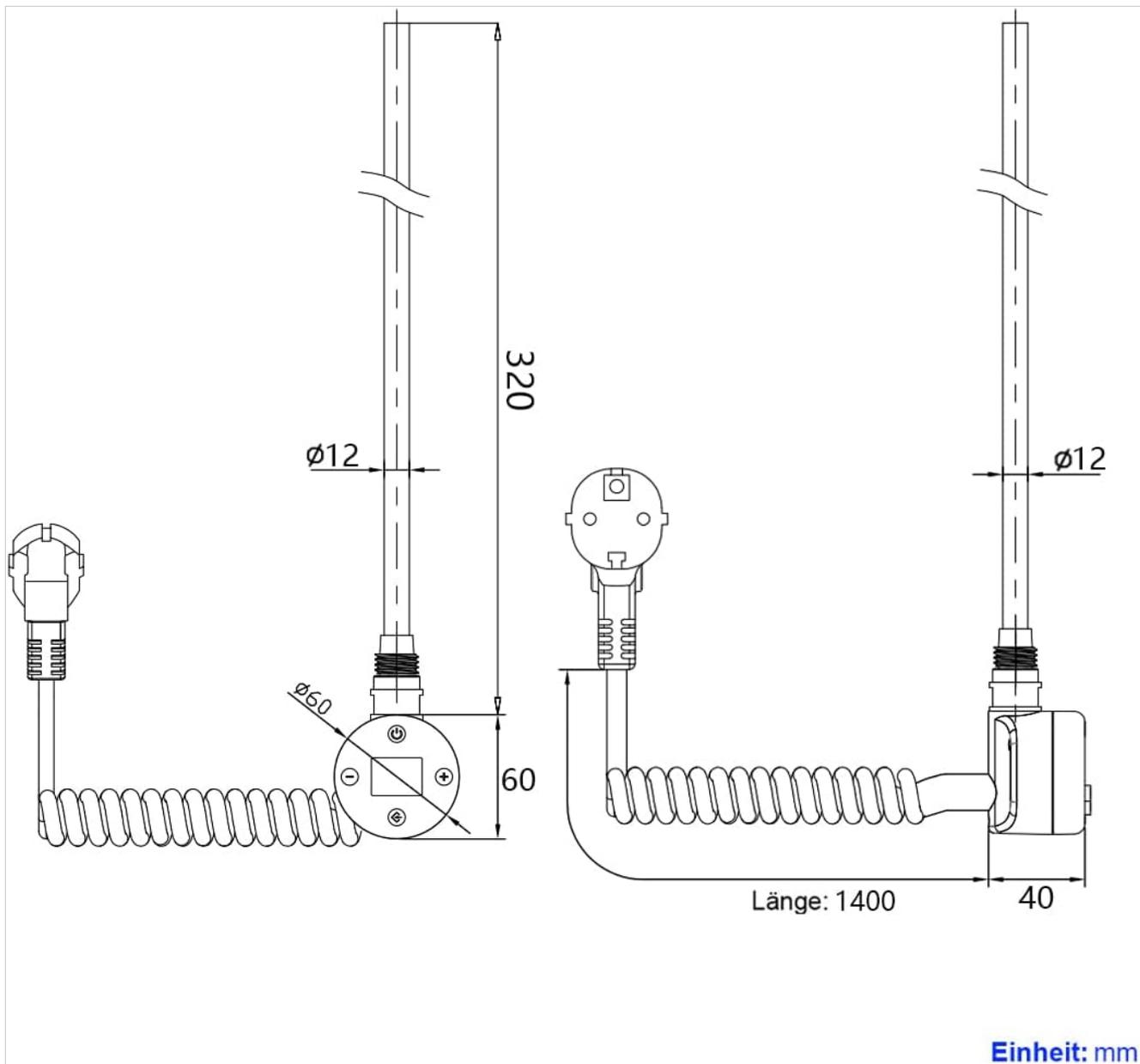


Figure 3: Technical Dimensions. Detailed drawing showing the heating element's dimensions, including a 12mm diameter and the control unit's measurements.

6. OPERATING INSTRUCTIONS

The EMKE heating element features an intuitive control panel with an LCD display for easy temperature and timer adjustments.

Mechanischer Thermostat mit LCD-Display



Einstellbereich des
Thermostats: 30°C ~ 70°C



Timer-Einstellung:
2H/4H



Figure 4: Thermostat Control Panel. This image highlights the LCD display and control buttons for temperature and timer settings. The thermostat adjustment range is 30°C to 70°C, with timer options for 2 hours and 4 hours.

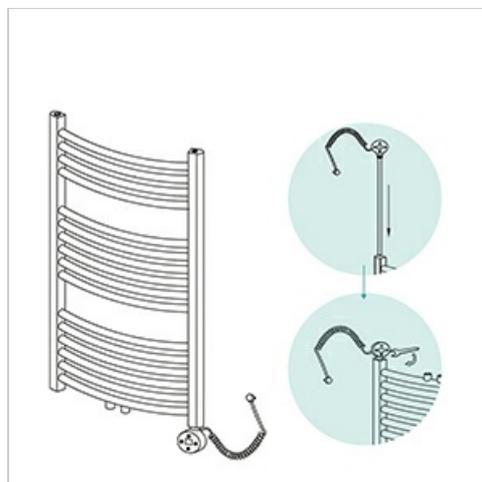


Figure 5: Control Button Functions. This image labels the buttons on the control panel: Power button, Temperature/Time Decrease button (-), Temperature/Time Increase button (+), and Mode Change button (arrow icon).

1. **Power On/Off:** Press the **Power button** () to turn the heating element on or off. The LCD display will illuminate when active.
2. **Adjusting Temperature:** When the heating element is on, press the **Temperature/Time Increase (+)** or **Decrease (-)** buttons to set your desired temperature between 30°C and 70°C. The set temperature will be displayed on the LCD.
3. **Setting the Timer:** Press the **Mode Change button** (↺) to cycle through the timer options (2H, 4H, or continuous heating). The selected timer duration will be shown on the LCD. The heating element will operate for the set duration and then turn off automatically.
4. **Continuous Heating:** If no timer is selected, the heating element will operate continuously at the set temperature until manually turned off.

Wasserdichter mechanischer Knopf



Die Knopfoberfläche ist mit einer wasserdichten Folie bedeckt.

Abstehende Knöpfe, keine wasserdichte Folie.

Figure 6: Waterproof Mechanical Button. This image shows the waterproof design of the control panel, where the button surface is covered with a waterproof film, ensuring durability and safety in a bathroom environment.

7. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your EMKE heating element.

- **Cleaning:** Before cleaning, always unplug the heating element from the power outlet. Use a soft, damp cloth to wipe the surface of the heating element and control panel. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or electronic components.
- **Inspection:** Periodically check the power cable for any signs of damage (fraying, cuts). Inspect the connection point to the radiator for any leaks or corrosion. If any damage is found, discontinue use and contact customer support.
- **Storage:** If the heating element will not be used for an extended period, unplug it and ensure it is clean and dry before storing.

8. TROUBLESHOOTING

If you encounter issues with your EMKE heating element, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Heating element does not turn on.	No power supply. Faulty outlet.	Check if the plug is securely inserted. Test the outlet with another device. Check circuit breaker.
Heating element is on but not heating.	Temperature set too low. Air in the radiator system. Heating element malfunction.	Increase the set temperature. Bleed the radiator to remove air. Contact customer support if the issue persists.
Timer function not working as expected.	Incorrect timer setting.	Ensure the correct timer duration (2H or 4H) is selected using the Mode Change button.
Water leakage at the connection point.	Loose connection. Damaged seal.	Ensure the heating element is securely tightened. Check the G1/2 seal and replace if damaged. Consult a professional if necessary.

If these solutions do not resolve the issue, please contact EMKE customer support for further assistance.

9. WARRANTY AND SUPPORT

EMKE products are manufactured to high-quality standards. For information regarding warranty coverage and terms, please refer to the documentation provided with your purchase or visit the official EMKE website.

For technical support, troubleshooting assistance, or spare parts inquiries, please contact EMKE customer service. Have your model number (THE230W-ADR) and purchase details ready when contacting support.

EMKE Customer Service: Please refer to your purchase receipt or the EMKE official website for contact information specific to your region.