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### GROHE 47310000

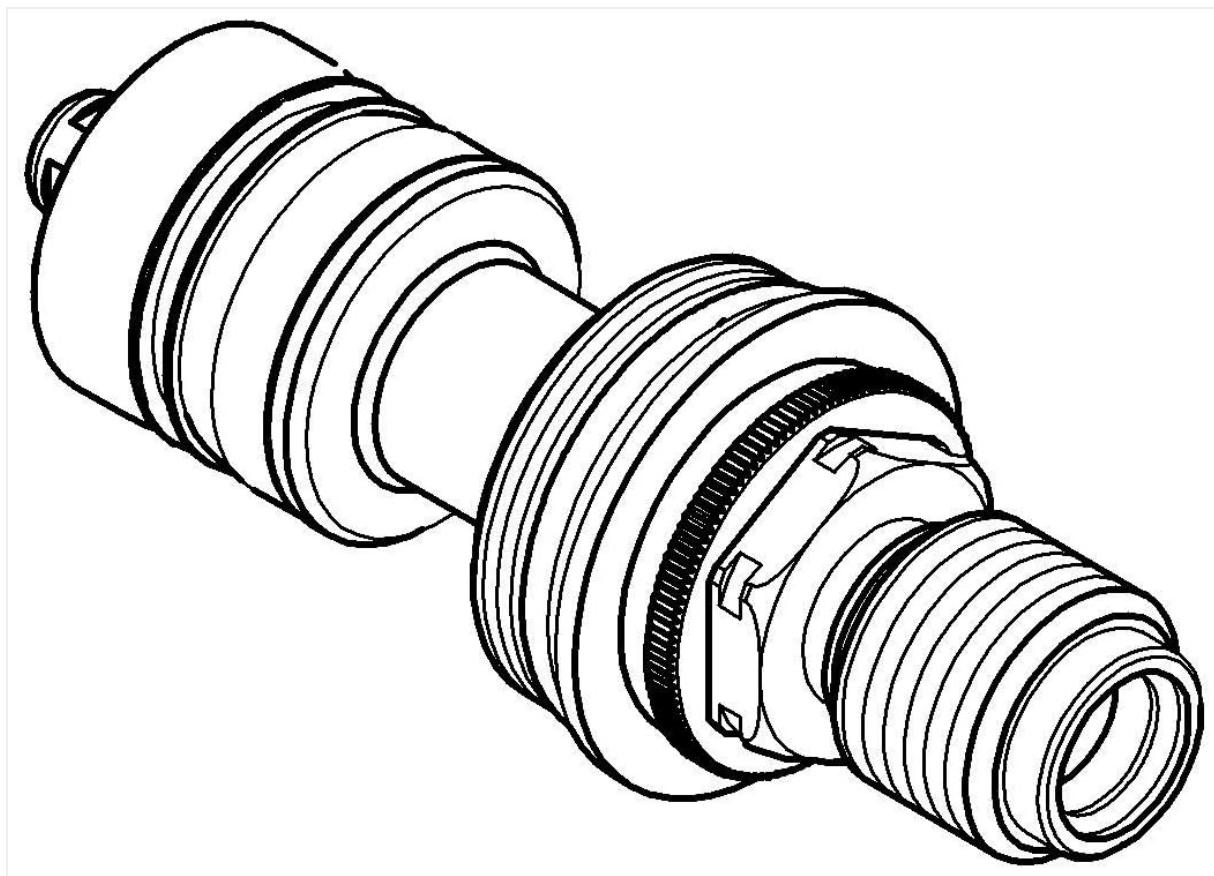


## GROHE 47310000 3/4-Inch Thermo-Element Instruction Manual

Model: 47310000

### INTRODUCTION

The GROHE 47310000 3/4-Inch Thermo-Element is a high-quality thermostatic cartridge designed for precise temperature control in shower and bath installations. This component ensures consistent water temperature, enhancing user comfort and safety by preventing sudden temperature fluctuations. It is engineered for durability and reliable performance within compatible GROHE systems.



This image displays a detailed technical drawing of the GROHE 47310000 3/4-Inch Thermo-Element, highlighting its cylindrical shape and connection points.

## SETUP AND INSTALLATION

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Installation of the GROHE 47310000 Thermo-Element should be performed by a qualified professional to ensure proper function and to comply with local plumbing codes. Always ensure the main water supply is turned off before beginning any installation or maintenance work.

- 1. Preparation:** Turn off the main water supply to the fixture where the thermo-element will be installed. Drain any remaining water from the pipes.
- 2. Access:** Remove the trim, handle, and any retaining nuts or screws to access the existing thermostatic cartridge or the cartridge housing.
- 3. Removal (if replacing):** Carefully extract the old cartridge. Note its orientation for reference.
- 4. Cleaning:** Clean the cartridge housing thoroughly to remove any mineral deposits or debris. This ensures a proper seal and optimal performance for the new element.
- 5. Installation:** Insert the new GROHE 47310000 Thermo-Element into the housing, ensuring it is correctly oriented and seated. Apply a thin layer of silicone grease to the O-rings if recommended by the specific fixture's instructions.
- 6. Secure:** Reinstall any retaining nuts or screws, tightening them securely but without over-tightening.
- 7. Calibration (if required):** Some thermostatic mixers require temperature calibration after cartridge replacement. Refer to your specific fixture's manual for calibration instructions. This typically involves setting the maximum hot water temperature.
- 8. Test:** Turn the main water supply back on slowly. Check for leaks and test the water temperature and flow.

# ÉLÉMENTS THERMOSTATIQUES

Élément	Dn 20	Bain/douche	Apparent Douche	Encastré* (Centrale)	Encastré* (Aquadimmer)	Divers	Élément Inversé Pour arrivées EC/EF inversées
47 310	Aquatower (avant 2003)					27 202	
	Automatic 2000 (1997-2006)				19 621 <sup>(3)</sup> + 34 959	34 366	
	Chiara (1995-2004)				19 613 <sup>(3)</sup> + 34 306	19 623 <sup>(3)</sup> + 34 307	
	Ectos (2000-2007)				19 674 <sup>(3)</sup> + 34 971		47 379
	Grohtherm 3000 (1995-2006)				19 664 <sup>(3)</sup> + 34 971		
	Sinfonia (2006)				19 030 <sup>(3)</sup> + 34 963		
	Taron (1998-2006)				19 660 <sup>(3)</sup> + 34 971	19 659 <sup>(3)</sup> + 34 964	19 661 <sup>(3)</sup> + 34 307
47 220	Atrio				19 147 <sup>(3)</sup> + 34 102	19 135 <sup>(3)</sup> + 34 103	19 141 <sup>(3)</sup> ou 19 142 <sup>(3)</sup> + 34 086
	Chiara (2004)					19 160 <sup>(3)</sup> + 34 103 19 162 <sup>(3)</sup> + 34 086	19 163 <sup>(3)</sup> + 34 085
	F1				34 102 + 34 137		34 086 + 34 135 34 085 + 34 136
	Tenso				19 067 <sup>(3)</sup> + 34 102	19 060 <sup>(3)</sup> + 34 103	

Pour arrivées EC/EF inversées

This chart illustrates the compatibility of various GROHE thermostatic elements, including model 47310, with different GROHE shower and bath systems. It helps identify the correct element for specific installations.

## OPERATING INSTRUCTIONS

The GROHE 47310000 Thermo-Element works within your thermostatic mixer to maintain a constant water temperature. Once installed, its operation is integrated with your fixture's controls.

- Temperature Adjustment:** Use the temperature control handle on your thermostatic mixer to select your desired water temperature. The thermo-element will automatically mix hot and cold water to achieve and maintain this setting, even if incoming water pressure or temperature fluctuates.
- Flow Control:** Use the flow control handle (if present on your mixer) to adjust the water volume.
- Safety Stop:** Most GROHE thermostatic mixers include a safety stop button, typically set at 38°C (100°F), to prevent accidental scalding. To exceed this temperature, you must consciously override the safety stop.

## MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your GROHE thermostatic element.

- **Cleaning:** Periodically clean the visible parts of your thermostatic mixer with a soft cloth and mild soap. Avoid abrasive cleaners, scouring pads, or solvents, as these can damage the finish.
- **Mineral Buildup:** In areas with hard water, mineral deposits can affect the performance of the thermo-element. If you notice a decrease in temperature control accuracy or flow, the cartridge may need descaling. This typically requires professional servicing.
- **Professional Inspection:** Consider having your plumbing system, including thermostatic elements, inspected by a qualified plumber every few years, especially if you experience persistent issues.

## TROUBLESHOOTING

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If you encounter issues with your thermostatic mixer, the following troubleshooting steps may help. For complex problems, contact a qualified plumber.

Problem	Possible Cause	Solution
Inconsistent water temperature	Mineral buildup in the thermo-element; fluctuating water pressure; incorrect calibration.	Clean or descale the thermo-element (professional service recommended); check water pressure; recalibrate the mixer.
No hot or cold water	Water supply turned off; blocked inlet filters; faulty thermo-element.	Ensure water supply is on; clean inlet filters; replace thermo-element if faulty.
Reduced water flow	Blocked inlet filters; mineral buildup; low water pressure.	Clean inlet filters; descale the system; check household water pressure.
Leaks from the mixer	Loose connections; damaged O-rings or seals; cracked housing.	Tighten connections; replace O-rings/seals; contact a professional for housing damage.

## SPECIFICATIONS

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- **Model Number:** 47310000
- **Brand:** GROHE
- **Size:** 0.75 Inch
- **Material:** Brass
- **Color:** StarLight Chrome
- **Item Dimensions (L x W x H):** 0.75 x 0.75 x 1.5 inches
- **Connector Type:** Buchse
- **Thread Size:** 3/4-Inch
- **Thread Type:** NPT
- **Item Weight:** 0.38 Kilograms (approx. 13.4 ounces)
- **Number of Pieces:** 1
- **Manufacturer:** GROHE

## WARRANTY AND SUPPORT

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For specific warranty information regarding your GROHE 47310000 3/4-Inch Thermo-Element, please refer to the documentation provided with your complete GROHE fixture or visit the official GROHE website. GROHE products are known for their quality and durability, and the manufacturer typically offers support for their components.

If you require technical assistance, replacement parts, or have questions not covered in this manual, please contact GROHE customer service directly. Contact details can usually be found on the GROHE official website or in the packaging of your product.