

GROHE 47310000

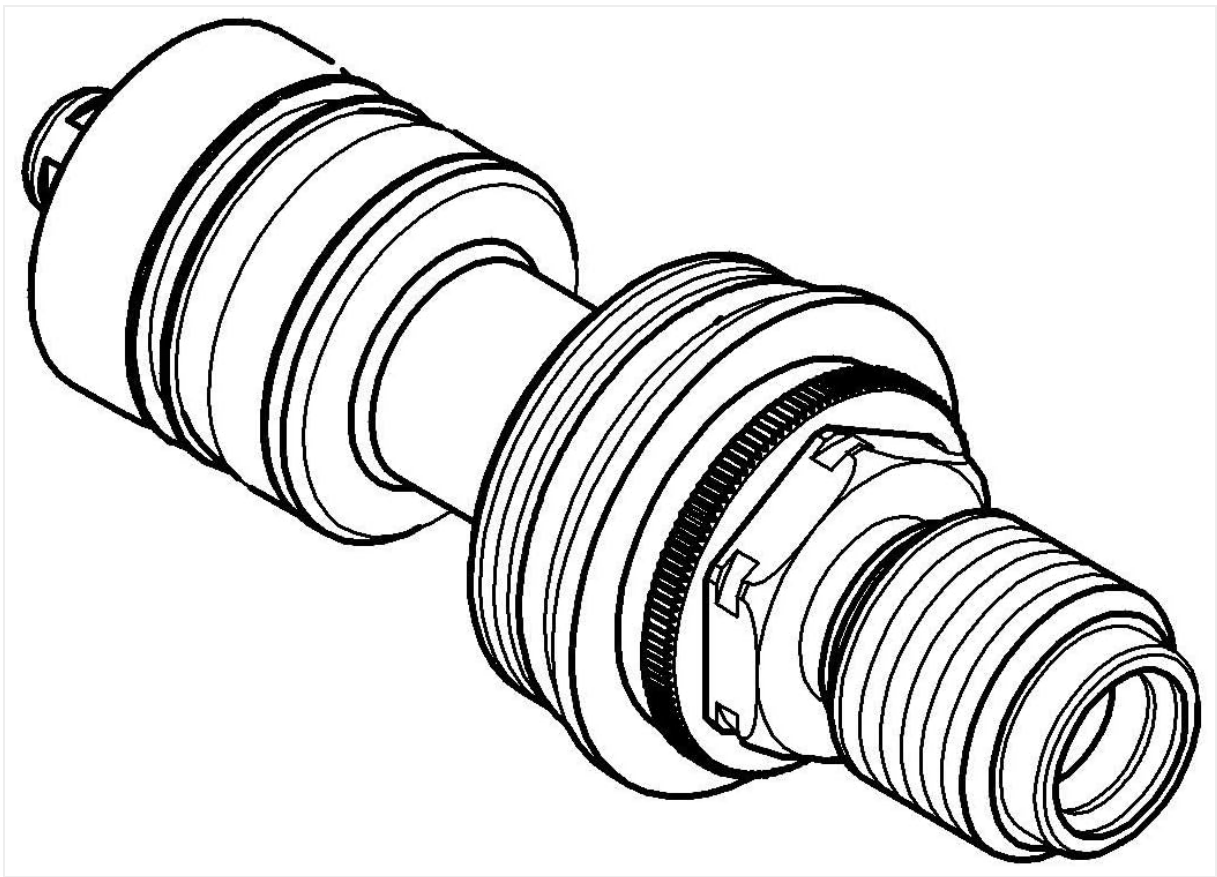


GROHE 47310000 3/4-Inch Thermo-Element Instruction Manual

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

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	 47 379
	Automatic 2000 (1997-2006)	 34 444	 34 621	 19 621 ²³ + 34 959		 34 366	
	Chiara (1995-2004)			 19 610 ²³ + 34 305	 19 613 ²³ + 34 306	 19 623 ²³ + 34 307	
	Ectos (2000-2007)			 19 674 ²³ + 34 971	 19 676 ²³ + 34 964		
	Grohtherm 3000 (1995-2006)			 19 664 ²³ + 34 971			
	Sinfonia (2006)			 19 030 ²³ + 34 963			
	Taron (1998-2006)			 19 660 ²³ + 34 971	 19 659 ²³ + 34 964	 19 661 ²³ + 34 307	
 47 220	Atrio			 19 147 ²³ + 34 102	 19 135 ²³ + 34 103	 19 141 ²³ ou 19 142 ²³ + 34 086	 47 658
	Chiara (2004)				 19 160 ²³ + 34 103 19 162 ²³ + 34 086	 19 163 ²³ + 34 085	
	F1			 34 102 + 34 137		 34 086 + 34 135 34 085 + 34 136	
	Tenso			 19 067 ²³ + 34 102	 19 060 ²³ + 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

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

- **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

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.