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> [GROHE 47012000 Thermostatic Cartridge Instruction Manual](#)

GROHE 47012000

GROHE 47012000 Thermostatic Cartridge Instruction Manual

Model: 47012000

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your GROHE 47012000 Thermostatic Cartridge. This cartridge is a critical component designed to regulate water temperature in compatible GROHE faucet and shower fixtures, ensuring a consistent and safe water temperature output. Adhering to these instructions will help ensure optimal performance and longevity of the product.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and maintenance:

- **Turn off water supply:** Before beginning any work, ensure the main water supply to the fixture is completely shut off.
- **Depressurize lines:** Open the faucet to relieve any remaining water pressure in the lines.
- **Professional installation recommended:** If you are not experienced with plumbing installations, it is highly recommended to consult a qualified plumber.
- **Use appropriate tools:** Ensure you have the correct tools for the job to prevent damage to the cartridge or fixture.
- **Avoid overtightening:** Do not overtighten connections, as this can cause damage.
- **Hot water caution:** Be aware of potential hot water when working on water lines.

3. PACKAGE CONTENTS

The GROHE 47012000 Thermostatic Cartridge package typically includes:

- One (1) GROHE 47012000 Thermostatic Cartridge.

Note: No additional components are typically included with the cartridge itself.



Image 1: The GROHE 47012000 Thermostatic Cartridge. This image displays the main component of the product, a brass-colored cylindrical cartridge with various seals and connection points.

4. SETUP AND INSTALLATION

The GROHE 47012000 Thermostatic Cartridge is designed for replacement in compatible GROHE fixtures. Installation typically involves removing the old cartridge and inserting the new one. Due to the precision required and the potential for water damage, professional installation is strongly recommended.

General Installation Steps (Consult your fixture's specific manual for detailed instructions):

1. **Shut off water supply:** Locate and turn off the main water supply to the bathroom or the specific fixture.
2. **Drain lines:** Open the faucet to drain any residual water from the pipes.
3. **Remove handle and trim:** Carefully remove the faucet handle, escutcheon, and any other trim pieces to expose the cartridge housing.
4. **Remove retaining nut/clip:** Identify and remove the retaining nut or clip that secures the old thermostatic cartridge in place.
5. **Extract old cartridge:** Gently pull out the old cartridge. Some resistance may be encountered due to mineral deposits.
6. **Clean housing:** Clean the cartridge housing thoroughly, removing any debris or mineral buildup.
7. **Insert new cartridge:** Carefully insert the new GROHE 47012000 Thermostatic Cartridge, ensuring it is correctly oriented and fully seated.
8. **Secure cartridge:** Reinstall the retaining nut or clip, tightening it appropriately (do not overtighten).
9. **Reassemble fixture:** Reattach the trim pieces and faucet handle.
10. **Restore water supply and test:** Slowly turn the water supply back on and check for leaks. Test the water temperature and flow.
11. **Calibrate (if necessary):** Some thermostatic fixtures may require calibration after cartridge replacement to ensure accurate temperature control. Refer to your specific fixture's manual for calibration procedures.

Élément thermostatique	1/2 dn 15	Bain/douche apparent	Douche apparent	Encastré (sans arrêt)	Divers	Élément Inversé Pour arrivées EC/EF inversées
		Entraxe 150 mm				
 47 064	Grohmix				 34 903 jusqu'à 1988 ⁽¹⁾	Non
 47 010		 34 403 34 406 / 34 494 jusqu'à 1979 ⁽²⁾	 34 601 34 603 34 604 / 34 703 jusqu'à 1979 ⁽²⁾	 34 400 jusqu'à 1979 ⁽²⁾		 47 011
 47 012		 34 403 34 406 / 34 494 depuis 1979 ⁽²⁾	 34 601 34 603 / 34 604 34 642 / 34 703 depuis 1979 ⁽²⁾	 34 400 34 499 19 601 ⁽¹⁾⁽²⁾ +34 950 depuis 1979 ⁽²⁾	 34 903 depuis 1988	 47 016
 47 024	Grohmix Compact (Star)	 34 468 34 470 / 34 481 34 482 / 34 490 ⁽³⁾	 34 635 / 34 637 ⁽³⁾	 34 518 ⁽¹⁾	 34 007 34 219 ⁽¹⁾	 47 061
 47 111	Grohmix De Luxe (Equil. Press)		 34 530 34 407 ⁽¹⁾	 34 430 34 422 19 602 ⁽¹⁾⁽²⁾ +34 951 ⁽¹⁾		 47 040
47 149	Grohmix Spécial De (Instant)	 34 512 / 34 519	 34 510 34 511			

Pour arrivées EC/EF inversées

Image 2: Exploded diagram showing various GROHE thermostatic elements and compatible fixtures. This diagram illustrates how different thermostatic cartridges, including the 47012, fit into various faucet and shower systems, providing a visual guide for compatibility and installation context.

5. OPERATING INSTRUCTIONS

Once installed, the GROHE 47012000 Thermostatic Cartridge operates automatically within your compatible fixture to maintain a desired water temperature. Thermostatic cartridges work by blending hot and cold water to achieve a set temperature, and they react quickly to changes in water pressure or temperature in the supply lines to prevent scalding or sudden cold shocks.

- **Temperature Selection:** Use the temperature control handle on your fixture to select the desired water temperature. The cartridge will then mix hot and cold water to achieve and maintain this setting.
- **Safety Stop:** Many thermostatic fixtures include a safety stop (often at 38°C / 100°F) to prevent accidental scalding. To exceed this temperature, you typically need to press a button or override a mechanism on the handle.
- **Flow Control:** The cartridge primarily controls temperature. Water flow is usually controlled by a separate handle or mechanism on the fixture.

6. MAINTENANCE

Proper maintenance can extend the life of your thermostatic cartridge and ensure consistent performance.

- **Regular Cleaning:** Periodically clean the exterior of your faucet or shower fixture according to GROHE's recommendations

for the finish. Avoid abrasive cleaners that can damage surfaces.

- **Cartridge Cleaning (if necessary):** In areas with hard water, mineral deposits can accumulate on the cartridge over time, affecting its performance. If temperature regulation becomes inconsistent, the cartridge may need to be removed and soaked in a descaling solution (e.g., vinegar) to remove mineral buildup. Always rinse thoroughly before reinstalling.
- **Temperature Calibration Check:** If your water temperature feels inconsistent, check if your fixture requires recalibration. Refer to your fixture's specific manual for instructions.

7. TROUBLESHOOTING

If you experience issues with your thermostatic fixture after cartridge replacement, consider the following common troubleshooting steps:

- **Inconsistent Temperature:**
 - *Cause:* Mineral buildup on the cartridge, incorrect calibration, or debris in the water lines.
 - *Solution:* Clean the cartridge, recalibrate the fixture, or flush the water lines.
- **No Hot or Cold Water:**
 - *Cause:* Water supply to one of the lines is off, cartridge is incorrectly seated, or a blockage.
 - *Solution:* Check water supply valves, ensure cartridge is fully and correctly inserted, or inspect for blockages.
- **Water Leaks from Handle/Trim:**
 - *Cause:* Cartridge not properly seated, damaged O-rings, or retaining nut is loose.
 - *Solution:* Re-seat the cartridge, inspect and replace O-rings if damaged, or tighten the retaining nut.
- **Low Water Flow:**
 - *Cause:* Blockage in the cartridge or fixture, or aerator/showerhead is clogged.
 - *Solution:* Clean the cartridge, check for blockages in the fixture, or clean/descalc the aerator/showerhead.

If these steps do not resolve the issue, contact GROHE customer support or a qualified plumber.

8. SPECIFICATIONS

Feature	Detail
Manufacturer	GROHE
Part Number	47012000
Item Model Number	47012000
Item Weight	12 ounces
Size	Small
Color	Brass
Finish	Starlight Chrome (<i>Note: This refers to the finish of compatible fixtures, not the cartridge itself which is brass.</i>)
Item Package Quantity	1

Feature	Detail
Included Components	Product Only
Batteries Included?	No
Batteries Required?	No
Date First Available	April 14, 2010

9. WARRANTY AND SUPPORT

Warranty Information:

The GROHE 47012000 Thermostatic Cartridge comes with a **1-year Limited Warranty** from the date of purchase. This warranty covers manufacturing defects under normal use and service. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact GROHE customer support. You can typically find contact information on the official GROHE website or through your product retailer.

For more information, visit the official [GROHE Store on Amazon](#).

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This manual is for informational purposes only. GROHE is not responsible for any damage or injury resulting from improper installation or use.