

GROHE 291422430

GROHE Grohtherm Thermostatic Valve Trim

MODEL: 291422430 (MATTE BLACK)

1. Introduction

The GROHE Grohtherm SmartControl Triple Function Thermostatic Trim is designed to enhance your showering experience. This trim allows for precise control over water volume for up to three spray sources through a push-turn button mechanism. It incorporates GROHE Turbostat technology to maintain a consistent water temperature, preventing fluctuations during use. This product requires installation in conjunction with the GROHE Rapido SmartBox (35601000).

2. Key Features

- **GROHE SmartControl:** Intuitive push-button operation for on/off control and turning for volume adjustment.
- **GROHE EcoJoy:** Designed to reduce water consumption without compromising performance.
- **GROHE StarLight:** Ensures a durable and lustrous finish on both brushed and polished surfaces.
- **GROHE SafeStop:** An override button allows setting a maximum temperature of 100°F (38°C) to prevent scalding.
- **GROHE QuickFix:** Installation system engineered to simplify the process and reduce installation time.

3. Product Overview and Components

The Grohtherm SmartControl trim features a metal wall plate, clear and interchangeable symbols for customized configurations, and a knurled surface on the controls for improved grip. Temperature indication is clearly marked for ease of use.

SLIM DESIGN TRIMS FEATURING UP TO THREE SMARTCONTROLS



GROHE SmartControl® Triple Function Thermostatic Trim

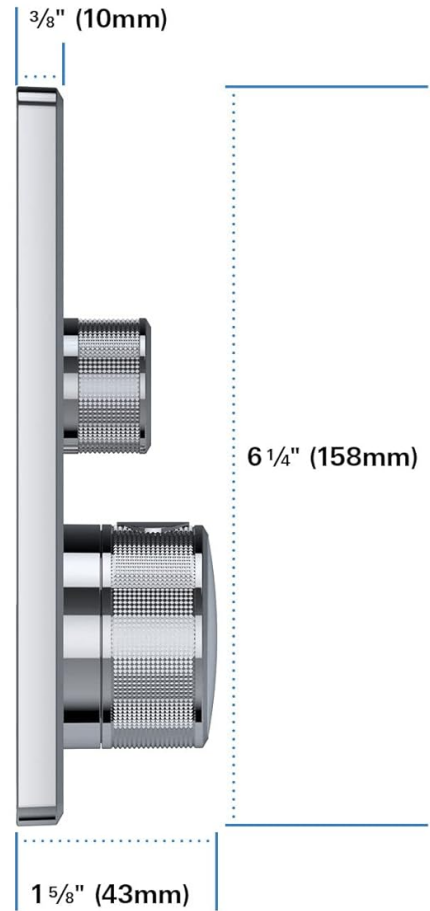


Figure 1: GROHE SmartControl Ergonomics and Haptics. This image highlights the metal wall plate, interchangeable symbols, clear symbols for user guidance, temperature indication, and the knurled surface for enhanced grip.

Internally, the system comprises a control unit, an escutcheon carrier with an integrated sealing system, the SmartControl trim, a SmartControl valve for water outlet selection and flow adjustment, a sealing membrane, and a 3/4" Turbostat cartridge for consistent temperature regulation.

TECHNOLOGY – WHAT'S INSIDE

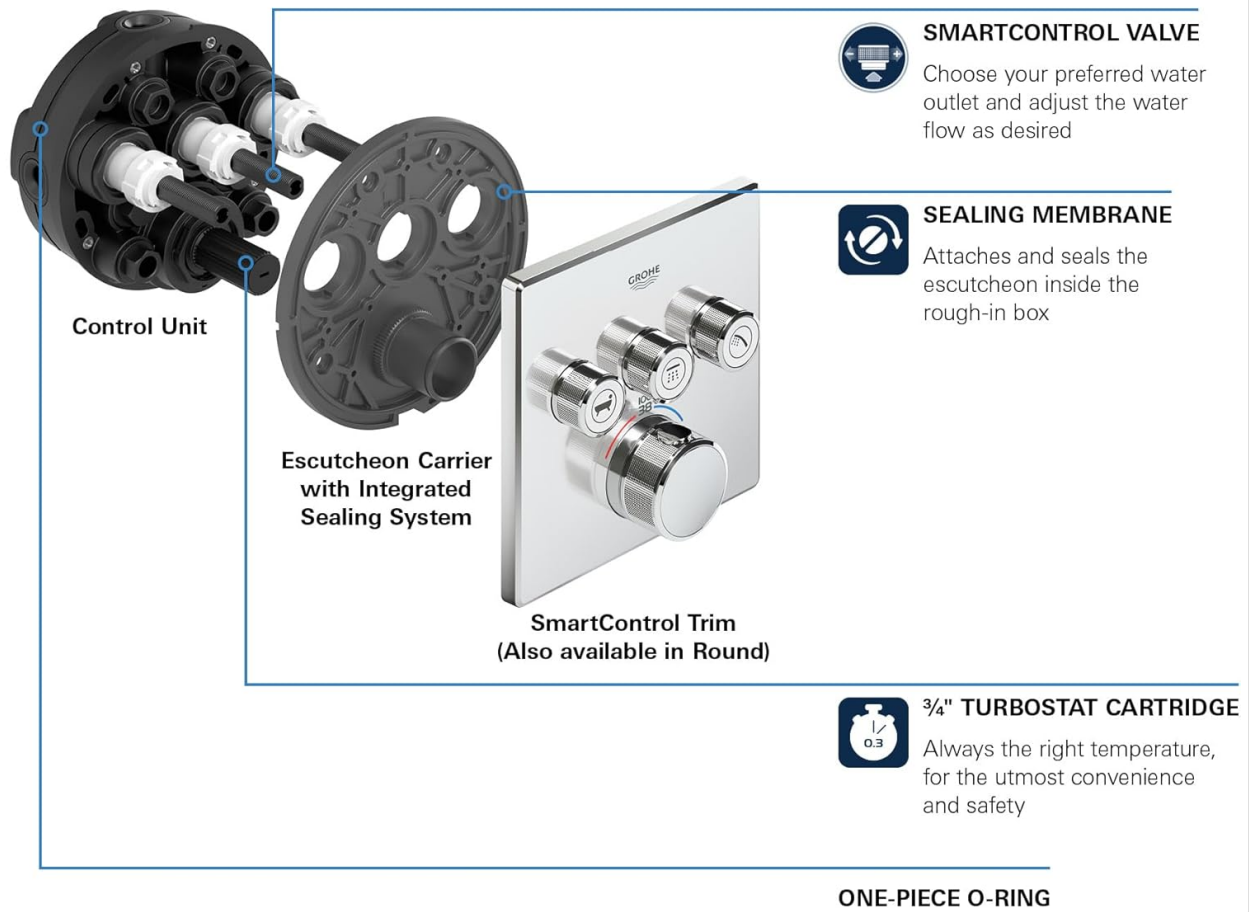


Figure 2: GROHE SmartControl Technology - Internal Components. An exploded view illustrating the control unit, escutcheon carrier, SmartControl trim, SmartControl valve, sealing membrane, and Turbostat cartridge.

4. Installation Prerequisites

The GROHE Grohtherm Thermostatic Valve Trim requires the GROHE Rapido SmartBox (model 35601000) for proper installation and functionality. This rough-in box is essential for the system to operate correctly. Additionally, you will need to select up to three water outlets such as a shower head, hand shower, body spray, or bath filler, depending on your desired configuration.

WHAT YOU NEED



SmartControl Trim

+



Rapido® SmartBox Rough-In

+

PICK 3 OF
4 OPTIONS



Shower Head



Hand Shower



Body Spray



Bath Filler

=



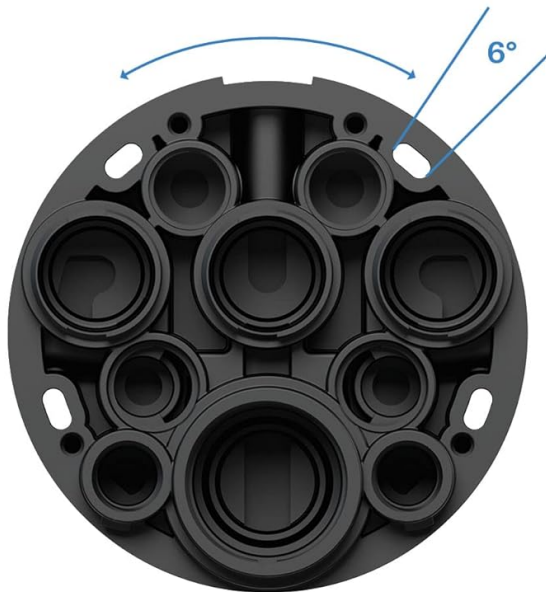
Figure 3: Required Components for Installation. This image shows the SmartControl Trim, the Rapido SmartBox Rough-In, and various optional water outlets including a shower head, hand shower, body spray, and bath filler.

5. Setup and Installation

Installation should be performed by a qualified professional. The GROHE QuickFix installation system is designed to streamline the process. The escutcheon carrier features slotted fixation holes, allowing for angle adjustment of up to 6 degrees. This feature helps compensate for rough-in installations that may not be perfectly level.

ANGLE ADJUSTABLE

GROHE



Angle Adjustable Up To 6°

Slotted fixation holes in Escutcheon Carrier allow trim to be angle adjusted up to 6°

Easy solution for when rough is not completely level



Figure 4: Angle Adjustable Escutcheon Carrier. This image displays the escutcheon carrier with its slotted fixation holes, which enable up to 6 degrees of angle adjustment for the trim, ensuring a level appearance even with imperfect rough-in conditions.

6. Operating Instructions

The SmartControl system allows for individual or simultaneous operation of up to three water outlets. Each button corresponds to a specific outlet (e.g., body spray, shower head, hand shower).

- **To Activate/Deactivate an Outlet:** Push the corresponding button.
- **To Adjust Water Volume:** Turn the activated button clockwise to increase volume and counter-clockwise to decrease volume.
- **Temperature Control:** The main rotary control adjusts the water temperature. The GROHE SafeStop button allows you to set a maximum temperature of 100°F (38°C) to prevent accidental scalding.

3 BUTTONS, 3 CONNECTIONS, 3 LEVELS OF ENJOYMENT

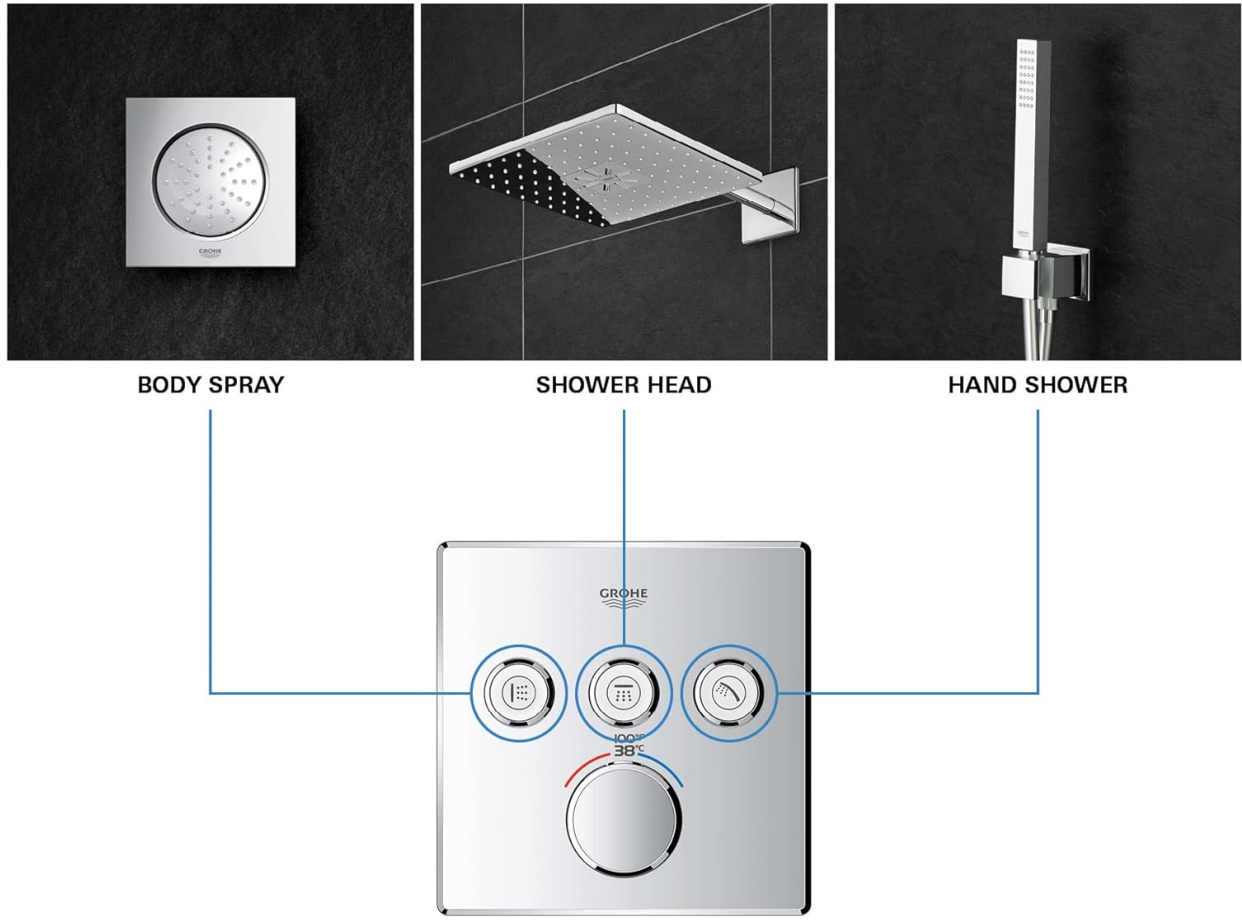


Figure 5: SmartControl Functionality and Connections. This image illustrates the three system control buttons and their typical connections to a body spray, shower head, and hand shower, demonstrating the system's triple-function capability.

7. Maintenance

To maintain the finish and functionality of your GROHE Grotherm Thermostatic Valve Trim, follow these guidelines:

- Clean the surface regularly with a soft cloth and mild soap.
- Avoid abrasive cleaners, scouring pads, or harsh chemicals, as these can damage the Matte Black finish.
- Rinse thoroughly after cleaning and dry with a soft cloth to prevent water spots.

8. Troubleshooting

If you experience issues with your thermostatic valve trim, consider the following general points:

- **No water flow or low pressure:** Check the main water supply and ensure all valves are fully open. Verify that the SmartBox is correctly installed and free of obstructions.
- **Inconsistent temperature:** Ensure the hot and cold water supplies are correctly connected. If the issue persists, the thermostatic cartridge may require inspection by a qualified plumber.
- **Leaking:** Check all connections for proper sealing. If leaks persist from the trim itself, professional

inspection is recommended.

For complex issues, it is recommended to contact a qualified plumber or GROHE customer support.

9. Specifications

Specification	Detail
Brand	GROHE
Model	291422430
Item Type Name	Valve Trim Kit
Color	Matte Black
Material	Metal
Mounting Type	Wall Mount
Actuator Type	Push Button
Number of Positions	3
Control Type	Thermostatic
Control Method	Touch
Lower Temperature Rating	100 Degrees Fahrenheit
Upper Temperature Rating	100 Degrees Fahrenheit
Compatible Devices	Grotherm Rapido SmartBox (35601000)
Item Dimensions (L x W x H)	1.69 x 6.25 x 6.25 inches
Item Weight	3.3 Pounds
Included Components	Instruction Manual
UPC	040673930075
GTIN	04067393007579

10. Warranty Information

This GROHE product is covered by a **LIMITED** warranty. For specific terms and conditions, please refer to the warranty documentation provided with your purchase or visit the official GROHE website.

11. Support

For further assistance, technical support, or to inquire about replacement parts, please contact GROHE customer service. Contact information can typically be found on the GROHE official website or in the packaging materials.

