

Dornbracht 35547970-90

Dornbracht xTool Thermostat with 3 Valves

MODEL: 35547970-90

Instruction Manual

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Dornbracht xTool concealed thermostat with three volume controls, Model 35547970-90. Please read these instructions carefully before beginning installation or operation to ensure safe and efficient use of the product. Retain this manual for future reference.

2. Safety Information

- **Professional Installation Recommended:** Due to the complexity of concealed plumbing fixtures, installation should be performed by a qualified and licensed plumber in accordance with local building and plumbing codes.
- **Water Supply:** Ensure the main water supply is turned off before any installation or maintenance work.
- **Temperature Settings:** Exercise caution when setting water temperatures to prevent scalding. Test water temperature before use.
- **Component Integrity:** Do not modify any components of the thermostat. Use only genuine Dornbracht replacement parts.
- **Pressure Requirements:** Verify that your water system's pressure meets the requirements specified in the 'Specifications' section.

3. Package Contents

Carefully unpack all components and check for any damage. If any parts are missing or damaged, contact your supplier immediately. The package should contain:

- Dornbracht xTool concealed thermostat rough-in unit
- Three volume control valves
- Mounting hardware
- Installation template (if applicable)

- This instruction manual



Figure 1: Main components of the Dornbracht xTool thermostat. This image shows the concealed rough-in unit along with the three separate volume control valves, illustrating the primary parts included in the package.

4. Product Overview

The Dornbracht xTool thermostat is a high-quality concealed mixing unit designed for precise temperature and flow control in your shower or bath. It features a central thermostatic control for stable water temperature and three independent volume controls, allowing for multiple water outlets (e.g., hand shower, overhead shower, body jets) to be operated simultaneously or individually.

- **Thermostatic Control:** Maintains a constant water temperature regardless of pressure fluctuations.
- **Three Volume Controls:** Each control manages the flow to a specific water outlet.
- **Concealed Design:** The main unit is installed within the wall, providing a clean, minimalist aesthetic.

5. Installation and Setup

Important: Installation must be carried out by a qualified professional plumber.

1. Preparation:

- Turn off the main water supply.
- Ensure the wall cavity is prepared according to the dimensions provided in the installation template (not included in this manual, refer to separate installation guide).
- Flush the water lines to remove any debris before connecting the unit.

2. Mounting the Rough-in Unit:

- Position the rough-in unit in the wall cavity, ensuring it is level and at the correct depth relative to the finished wall surface.
- Secure the unit using the provided mounting hardware.

3. Connecting Water Lines:

- Connect the hot and cold water supply lines to the designated inlets on the rough-in unit. Ensure correct orientation (hot on left, cold on right, typically).
- Connect the outlet lines from the three volume controls to your desired water outlets (e.g., shower head, hand shower, body jets).
- Use appropriate plumbing fittings and sealants to ensure watertight connections.

4. Testing:

- Slowly turn on the main water supply and check all connections for leaks.
- Test the thermostatic function and each volume control for proper operation.

5. Finishing:

- Install the trim kit (escutcheon, handles, etc.) according to the separate trim kit instructions.



Figure 2: Illustrative diagram of the concealed rough-in unit installation. This image depicts the internal plumbing connections and how the unit is secured within the wall cavity, prior to the application of the finished wall surface and trim kit.

6. Operating Instructions

The Dornbracht xTool thermostat provides intuitive control over your water experience.

• Temperature Control:

The main central handle controls the water temperature. Rotate it to adjust from cold to hot. Most models include a safety stop to prevent accidental scalding, typically around 38°C (100°F). To exceed this temperature, you may need to press a safety button or override mechanism while turning the handle further.

• Volume Controls:

Each of the three smaller handles controls the flow of water to a specific outlet. Rotate a handle to turn on or off the water flow to its corresponding outlet and to adjust the intensity of the flow. You can operate one, two, or all three outlets simultaneously.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Dornbracht xTool thermostat.

• Cleaning:

Clean the visible surfaces of the thermostat and handles regularly with a soft cloth and a mild, non-abrasive cleaner. Avoid using harsh chemicals, abrasive sponges, or cleaners containing alcohol, ammonia, or phosphoric acid, as these can damage the finish.

• Cartridge Maintenance:

In areas with hard water, mineral deposits can affect the performance of the thermostatic cartridge. If you notice inconsistent temperature or flow, the cartridge may need cleaning or replacement. This should be performed by a qualified plumber.

• Filter Screens:

The rough-in unit may contain filter screens at the inlets to prevent debris from entering the system. These should be checked and cleaned periodically, especially if water flow is reduced. Turn off the main water supply before accessing these filters.

8. Troubleshooting

Refer to the following table for common issues and their potential solutions. For problems not listed or if solutions do not resolve the issue, contact a qualified plumber or Dornbracht customer support.

Problem	Possible Cause	Solution
Inconsistent water temperature	Fluctuating hot/cold water pressure; thermostatic cartridge needs cleaning/replacement; incorrect installation.	Check water pressure balance. Clean or replace thermostatic cartridge (professional service recommended). Verify installation.
Low water flow from an outlet	Debris in filter screens; aerator clogged (if applicable); partially closed volume control.	Clean filter screens. Clean or replace aerator. Ensure volume control is fully open.
Leaks from connections	Loose connections; damaged seals/gaskets; improper pipe threading.	Turn off water supply. Tighten connections. Replace damaged seals/gaskets. Re-thread pipes if necessary (professional service recommended).
Water too hot or too cold, cannot adjust	Thermostatic cartridge malfunction; temperature limiter setting.	Check and adjust the temperature limiter setting (refer to trim kit instructions). Replace thermostatic cartridge (professional service recommended).

9. Specifications

The following specifications apply to the Dornbracht xTool concealed thermostat with three volume controls, Model 35547970-90:

- **Manufacturer:** Dornbracht
- **Part Number:** 35547970-900010
- **Item Model Number:** 35547970-900010
- **Item Weight:** 12.3 pounds
- **ASIN:** B008M6OXRA
- **Batteries Required:** No
- **Date First Available:** July 17, 2012
- **Number of Valves:** 3
- **Type:** Concealed Thermostat Rough-in
- **Application:** Shower/Bath

10. Warranty and Support

Dornbracht products are manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Dornbracht website. For technical support, spare parts, or service inquiries, please contact your authorized Dornbracht dealer or customer service representative.

Dornbracht Official Website: www.dornbracht.com

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Model number, symptoms, what you tried, or the section of the manual you are using.

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