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› [Honeywell Braukmann Sparco AM101-US-1 Thermostatic Mixing Valve User Manual](#)

## Honeywell AM101-US-1

# Honeywell Braukmann Sparco AM101-US-1 Thermostatic Mixing Valve

User Manual

## 1. INTRODUCTION

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The Honeywell Braukmann Sparco AM101-US-1 Thermostatic Mixing Valve is designed to precisely adjust, maintain, and limit hot water temperature to a user-defined setting. This valve enhances safety and can contribute to energy savings in various applications.

It is suitable for both domestic and commercial installations, including hot water systems (tankless heaters or storage tanks), showers, sinks, baths, washing machines, solar, and heat pump systems. Its accuracy and energy-saving capabilities make it ideal for environments requiring precise temperature control.

### Key Features:

- Constant water temperature under varying operating conditions.
- Maintains constant temperature in systems with recirculation.
- Proportional valve for simultaneous control of hot and cold water.
- Enables energy savings through lower supply temperatures.
- Provides control of hot water up to shutoff.

## 2. SAFETY INFORMATION

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Please read all instructions carefully before installation and operation. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Professional Installation:** Installation should be performed by a qualified plumber or technician in accordance with local codes and regulations.
- **Hot Water Hazard:** This device handles hot water. Exercise extreme caution to prevent scalding. Always test water temperature before use, especially in households with children or elderly individuals.
- **Pressure Relief:** Ensure the water supply is turned off and system pressure is relieved before attempting any installation or maintenance.
- **Material Compatibility:** Use only compatible materials and sealants as recommended by plumbing standards.
- **Water Quality:** Be aware that water conditions (e.g., hard water, mineral content) can affect valve performance and longevity.

### 3. PACKAGE CONTENTS

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Verify that all components are present before beginning installation:

- Honeywell Braukmann Sparco AM101-US-1/U Aquamix 100-145 3/4 Us Thermostatic Mixing Valve

*Note: Additional plumbing components (e.g., pipes, fittings, sealants) are not included and must be sourced separately.*

### 4. SPECIFICATIONS

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Feature	Detail
Model Number	AM101-US-1/U
Connection Size	3/4" Union-Sweat
Temperature Range	100-145°F (38-63°C)
Maximum GPM	12
Cv Value	3.2
Material	Nickel-plated brass
Item Weight	1.8 pounds
Manufacturer	ADEMCO, INC.
UPC	085267825252

### 5. SETUP AND INSTALLATION

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Proper installation is crucial for the safe and efficient operation of your thermostatic mixing valve. Refer to local plumbing codes and consult a professional if you are unsure about any steps.

#### 5.1 Pre-Installation Checklist:

- Ensure the main water supply is turned off.
- Drain the hot and cold water lines to relieve pressure.
- Gather all necessary tools and additional plumbing components.
- Inspect the valve for any visible damage.

#### 5.2 Installation Steps:

1. **Prepare Connections:** The valve features 3/4" Union-Sweat connections. If sweating copper connections, ensure the connectors are properly prepared. You may sweat the connectors onto the copper tubing first, then allow them to cool before installing the valve and seals to prevent heat damage.
2. **Connect Valve:** Carefully connect the valve to the hot and cold water lines. Ensure the flow direction arrows on the valve body match the water flow. When tightening nuts, support the pipes to prevent damage, as connections can be tight.
3. **Seal Gaskets:** If reusing nuts from an old unit, ensure you remove any old paper-style gaskets and thoroughly clean the flanges with an abrasive pad (e.g., Scotchbrite or the green side of a sponge) before installing new seals.
4. **Secure Valve:** Secure the valve firmly in place.

5. **Restore Water Supply:** Slowly turn on the main water supply and check for leaks.



Figure 1: Honeywell Braukmann Sparco AM101-US-1 Thermostatic Mixing Valve. This image shows the valve with its 3/4 inch union-sweat connections, ready for installation into a plumbing system.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Temperature Adjustment:

The AM101-US-1 valve allows for temperature adjustment within a range of 100-145°F (38-63°C). To adjust the mixed water temperature:

1. Locate the adjustment knob on the valve.
2. **To Adjust:** Loosen the screw on the adjustment knob. Then, gently pull the plastic knob upwards to disengage it from its locked position.
3. Rotate the knob to increase or decrease the desired temperature. Turning the knob clockwise typically decreases the temperature, while counter-clockwise increases it.
4. Once the desired temperature is set, push the knob back down to lock it in place and tighten the screw.
5. Always test the water temperature with a thermometer to ensure it is at a safe and desired level, especially if children or elderly individuals will be using the water.

*Note: The adjustment knob may be stiff initially. If it is very difficult to turn, ensure it is properly disengaged by pulling it out after loosening the screw.*

## 7. MAINTENANCE

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Regular maintenance helps ensure the longevity and optimal performance of your thermostatic mixing valve.

- **Annual Inspection:** It is recommended to inspect the valve annually for any signs of leaks, corrosion, or mineral buildup.
- **Water Quality Impact:** In areas with hard water or high mineral content (e.g., well water), internal mineral buildup can occur, potentially causing the valve to stick or temper water inconsistently. Depending on water conditions, the valve may require more frequent inspection or replacement (e.g., every 1-2 years).
- **Cleaning:** If mineral buildup is suspected, the valve may need to be disassembled and cleaned by a qualified professional. Always turn off the water supply and relieve pressure before attempting any internal cleaning.
- **Temperature Verification:** Periodically verify the mixed water temperature with a thermometer to ensure the valve is maintaining the desired setting.

## 8. TROUBLESHOOTING

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If you encounter issues with your thermostatic mixing valve, refer to the common problems and solutions below. For persistent problems, contact a qualified plumber.

Problem	Possible Cause	Solution
Inconsistent or incorrect water temperature.	<ul style="list-style-type: none"><li>◦ Valve setting incorrect.</li><li>◦ Mineral buildup inside the valve.</li><li>◦ Fluctuations in hot/cold supply pressure.</li></ul>	<ul style="list-style-type: none"><li>◦ Re-adjust the temperature setting (see Section 6.1).</li><li>◦ Inspect for mineral buildup; clean or replace if necessary.</li><li>◦ Check water supply pressures.</li></ul>
Valve is difficult to adjust.	<ul style="list-style-type: none"><li>◦ Adjustment knob not properly disengaged.</li><li>◦ Internal components stiff due to lack of use or mineral deposits.</li></ul>	<ul style="list-style-type: none"><li>◦ Ensure the screw is loosened and the knob is pulled up before turning.</li><li>◦ If persistent, professional inspection and cleaning may be required.</li></ul>
Water flow is restricted.	<ul style="list-style-type: none"><li>◦ Debris or mineral buildup in the valve or pipes.</li></ul>	<ul style="list-style-type: none"><li>◦ Inspect and clean the valve and associated piping.</li></ul>

## 9. WARRANTY AND SUPPORT

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For information regarding the product warranty, please refer to the documentation provided with your purchase or visit the official Honeywell website. Technical support and service inquiries should be directed to Honeywell customer service.

**Honeywell Official Website:** [www.honeywell.com](http://www.honeywell.com)