Cash Acme 25687

Cash Acme HG135 Thermostatic Mixing Valve (Model 25687) Instruction Manual

Brand: Cash Acme | Model: 25687

1. Product Overview

The Cash Acme HG135 Thermostatic Mixing Valve is a compact under-sink temperature mixing valve designed to prevent scalding by delivering tempered water at a consistent temperature. This valve is compatible with SharkBite copper tubing, CTS, CPVC, SDR-9 HDPE, and PEX fittings. Constructed from durable lead-free brass, it ensures long-lasting reliability. The factory-set outlet temperature is 120°F (49°C) and is adjustable from 85°F (29°C) to 130°F (54°C).

Figure 1: Cash Acme HG135 Thermostatic Mixing Valve

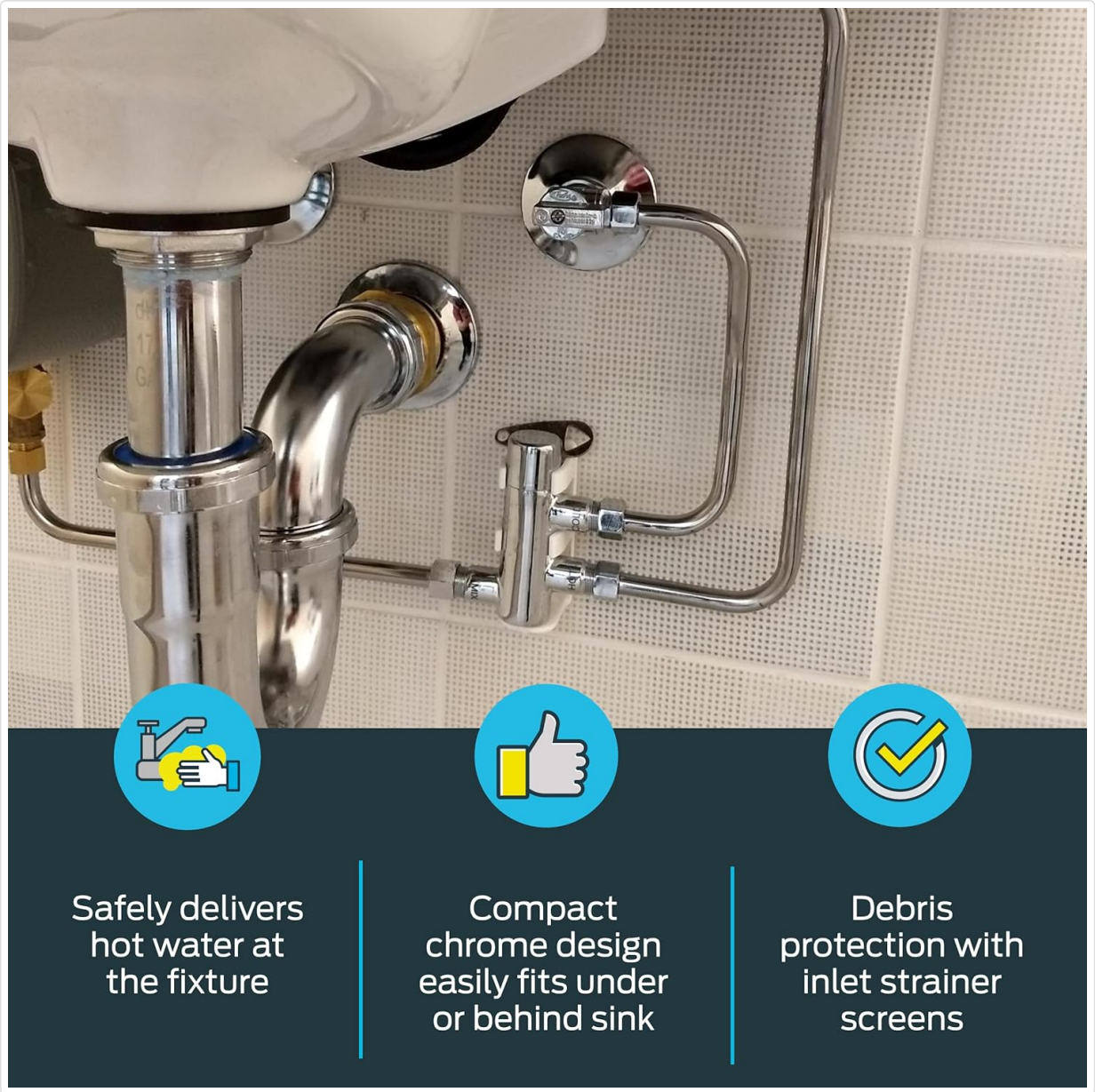

Figure 2: HG135 Valve installed under a sink, showing its compact design and safety features.

2. Safety Information

Always read and understand all instructions before installing or operating this product. Failure to follow these instructions could result in property damage, personal injury, or death.

- Ensure the main water supply is turned off before beginning any installation.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- If you are unsure about any part of the installation process, consult a qualified plumber.
- Do not exceed the maximum operating pressure of 230 psi.
- The valve is designed to prevent scalding; however, always test water temperature before use, especially for children or individuals with sensitive skin.

3. Specifications

Feature	Specification
Model Number	25687

Feature	Specification
Size	3/8 inch with Tee
Material	Lead-Free Brass
Inlet Connection Type	Compression
Outlet Connection Type	PEX
Number of Ports	2
Outlet Temperature Range	85°F - 130°F (Factory set at 120°F)
Maximum Pressure	230 psi
Certifications	ASSE 1070
Item Dimensions (L x W x H)	4.6 x 1.5 x 4.5 inches
Item Weight	1.08 pounds

Figure 3: Approvals and temperature specifications for the HG135 valve.

4. Installation

This section outlines the general installation procedure for the Cash Acme HG135 Thermostatic Mixing Valve. While the following video demonstrates the installation of a similar model (HG145), the fundamental steps and principles apply to the HG135.

4.1 Pre-Installation Steps

1. **Shut off Water Supply:** Locate and turn off both the hot and cold water stop valves to the sink or fixture where the mixing valve will be installed.
2. **Remove Existing Supply Lines:** Disconnect and remove any existing supply lines from the stop valves and the faucet.

4.2 Mounting the Valve

3. **Mount Bracket:** Secure the valve bracket in a suitable location under or behind the sink, ensuring it can easily reach all connection points. Use appropriate fasteners for your wall material.

4.3 Connecting the Valve

4. **Connect Hot and Cold Lines to Valve:** Connect the hot and cold supply lines from the stop valves to the corresponding inlets on the mixing valve. Ensure proper orientation (hot to hot, cold to cold). Use threaded or compression fittings as appropriate and tighten securely.
5. **Connect Cold Water Bypass:** Connect a supply line from the cold water bypass tee on the mixing valve to the cold water inlet of the faucet.
6. **Connect Tempered Water to Faucet:** Connect a supply line from the outlet of the mixing valve to the hot water inlet of the faucet.

4.4 Post-Installation Steps

7. **Restore Water Supply:** Once all connections are made and tightened, slowly turn on the hot and cold water supply stop valves.
8. **Check for Leaks:** Carefully inspect all connections for any signs of leaks. Tighten any loose fittings as necessary.

Video 1: Installation Guide for Cash Acme HG145 Mixing Valve. While this video features the HG145 model, the installation principles are generally applicable to the HG135.

5. Operation

The Cash Acme HG135 Thermostatic Mixing Valve automatically mixes hot and cold water to deliver a consistent, tempered water temperature to your faucet. The valve is factory set to 120°F (49°C).

5.1 Temperature Adjustment

The outlet temperature can be adjusted within a range of 85°F (29°C) to 130°F (54°C). To adjust the temperature:

1. Locate the adjustment knob on the mixing valve.
2. Turn the knob clockwise to decrease the temperature or counter-clockwise to increase the temperature.
3. Allow water to run for a few minutes after adjustment to stabilize the temperature, then verify with a thermometer.

Figure 4: HG135 valve showing factory temperature setting.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Cash Acme HG135 Thermostatic Mixing Valve.

- **Periodic Inspection:** Annually inspect the valve and all connections for any signs of leaks, corrosion, or damage.
- **Strainer Screens:** The valve includes inlet strainer screens for debris protection. If water flow is reduced, these screens may need cleaning. Turn off the water supply, carefully remove the screens, clean them under running water, and reinstall.
- **Temperature Verification:** Periodically verify the outlet water temperature with a thermometer to ensure it remains within the desired safe range.

7. Troubleshooting

This section provides solutions to common issues you might encounter with your thermostatic mixing valve.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Inconsistent water temperature	Fluctuating inlet water pressure or temperature; debris in valve.	Check water supply stability. Clean inlet strainer screens.
No hot water or water too cold	Hot water supply off; valve set too low; cold water supply failure.	Ensure hot water supply is on. Adjust valve temperature setting. Check cold water supply.
Water too hot	Valve set too high; hot water supply failure (unlikely for too hot).	Adjust valve temperature setting lower.
Reduced water flow	Clogged strainer screens; kinked supply lines.	Clean inlet strainer screens. Inspect and straighten supply lines.
Leaks at connections	Loose fittings; damaged seals.	Tighten connections. Replace seals if damaged.

8. Warranty and Support

For detailed warranty information and customer support, please refer to the official Cash Acme website or contact their customer service department. Keep your purchase receipt for warranty claims.
Contact Information: Please visit the Cash Acme Store for further assistance and product information.