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## Taco 008-CT-USK

# Taco 008-CT-USK On Command 1/2-Inch MPT Pump Instruction Manual

Model: 008-CT-USK

## INTRODUCTION

The Taco On Command 008-CT-USK is a compact, quiet pump designed to recirculate cool water from the hot water line back to the water heater. This process ensures that hot water is readily available at the faucet, reducing water waste. The pump is typically installed under the most remote kitchen or bath fixture in a home, connecting to both hot and cold water lines. It features a heat sensor and control board that automatically shut off the pump once hot water reaches the faucet, preventing excess hot water from entering the cold water line.

This manual provides essential information for the proper installation, operation, and maintenance of your Taco On Command pump.

## KEY FEATURES

- **On-Demand Operation:** The pump activates only when initiated by the user, providing hot water availability 24/7 without continuous running.
- **Automatic Sensing:** Integrated heat sensor and control board detect when water is sufficiently hot, automatically shutting off the pump.
- **Water and Energy Conservation:** By recirculating cool water, the system minimizes water waste and reduces energy consumption associated with waiting for hot water.
- **Simplified Installation:** Eliminates the need for a dedicated return line, simplifying plumbing and reducing construction costs.
- **Motor Specifications:** Equipped with a 0.04 (1/25) horsepower motor.

## SETUP AND INSTALLATION

The Taco On Command pump is designed for installation under the sink of the fixture furthest from the water heater. The 008-CT-USK kit includes necessary plumbing connections for a standard installation.

1. **Preparation:** Ensure the main water supply is turned off before beginning installation. An electrical outlet must be available under the sink for pump power.

2. **Placement:** Position the pump unit under the sink, ensuring it is accessible for future maintenance and away from direct water exposure.

3. **Plumbing Connections:**

- Disconnect the existing hot and cold water supply lines from the wall connections.
- Utilize the provided plumbing connection kit, which typically includes large bore flexible metallic water lines and T-fittings.
- Connect the T-fittings to the hot and cold water supply lines at the wall.
- Connect the pump to these T-fittings using the flexible lines. Ensure all connections are tight to prevent leaks. It is recommended to install shut-off valves on the hot and cold supply lines leading to the pump for easier servicing.
- Reconnect the faucet's hot and cold supply lines to the remaining ports on the T-fittings.

4. **Electrical Connection:** Plug the pump into a standard 110-volt AC electrical outlet.

5. **System Check:** Slowly turn the main water supply back on. Inspect all connections for leaks. Activate the pump to ensure proper operation and check for any unusual noises.



**Figure 1:** The Taco 008-CT-USK On Command Pump with its associated plumbing connection kit. This image shows the compact pump unit and the flexible lines and T-fittings used for installation under a sink.

## OPERATING INSTRUCTIONS

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The Taco On Command pump operates on an as-needed basis, activated by the user.

- Activation:** To initiate hot water recirculation, press the low-voltage pushbutton switch typically installed at the sink. The pump will begin to run.
- Automatic Shut-off:** The pump will run until its internal heat sensor detects that hot water has reached the faucet. Once hot water is detected, the pump will automatically shut off.
- Optional Remote Activation:** For convenience, optional wireless remote controls can be used to activate the pump from other fixtures in the home. Refer to the remote control's specific instructions for pairing and operation.
- System Function:** During operation, the pump moves the cool water from the hot water line into the cold water line, sending it back to the water heater. This process ensures that when you open the hot water faucet, hot water is delivered quickly.

## MAINTENANCE

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The Taco On Command pump is designed for minimal maintenance. Regular checks can help ensure its longevity and efficient operation.

- Leak Inspection:** Periodically inspect all plumbing connections around the pump for any signs of leaks. Tighten connections if necessary.
- Audible Check:** Listen for any unusual noises during pump operation. The pump is designed to be quiet; persistent loud noises may indicate an issue.
- Cleanliness:** Keep the area around the pump clean and free from debris to ensure proper ventilation and prevent obstruction.
- Power Cord:** Ensure the power cord is not damaged or pinched.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Pump does not activate when button is pressed.	No power to the unit; circuit board not seated correctly; faulty switch.	<ul style="list-style-type: none"><li>Check if the pump is plugged into a live electrical outlet.</li><li>Ensure the circuit board inside the pump housing is firmly seated in its socket. (Refer to manufacturer's guide for accessing internal components).</li><li>Test the pushbutton switch for functionality.</li></ul>
Hot water takes too long to arrive or pump runs excessively.	Incorrect installation location; air in the lines; sensor malfunction.	<ul style="list-style-type: none"><li>Verify the pump is installed at the fixture furthest from the water heater.</li><li>Bleed air from the plumbing lines if necessary.</li><li>Contact customer support if sensor malfunction is suspected.</li></ul>

Problem	Possible Cause	Solution
Warm water comes from the cold water faucet.	Pump running too long or incorrect sensor reading; significant cold water draw near the pump.	<ul style="list-style-type: none"> <li>Ensure the pump is shutting off correctly once hot water is detected.</li> <li>If there is a large cold water draw (e.g., garden sprinklers) near the pump, consider installing a solenoid valve on the cold water line to prevent hot water from entering the cold supply during such events.</li> </ul>

## SPECIFICATIONS

Attribute	Detail
<b>Model Number</b>	008-CT-USK
<b>Manufacturer</b>	Taco
<b>Item Weight</b>	3.72 pounds
<b>Product Dimensions</b>	5 x 4 x 7 inches
<b>Power Source</b>	AC
<b>Voltage</b>	110 Volts
<b>Motor Horsepower</b>	0.04 (1/25) HP
<b>Connection Size</b>	1/2-Inch MPT (Male Pipe Thread)
<b>Color</b>	Black

## WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Taco On Command 008-CT-USK pump, please contact Taco directly through their official website or customer service channels. Keep your purchase receipt and model number handy when contacting support.

**Manufacturer:** Taco