

Taco SPE1006E3LC

Taco SPE1006E3LC SmartPlus-e Instruction Manual

Model: SPE1006E3LC | Brand: Taco

1. INTRODUCTION

The Taco SmartPlus-e, model SPE1006E3LC, is an advanced hot water circulator designed to enhance hot water comfort while significantly reducing water and energy consumption. This system works by recirculating cooled hot water back to the water heater, thereby minimizing the wait time for hot water at the tap to mere seconds. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Taco SmartPlus-e system.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the Taco SmartPlus-e. Failure to follow these instructions may result in property damage, injury, or death.

- Electrical Hazard:** Ensure power is disconnected at the main circuit breaker before performing any electrical connections or maintenance. This unit operates on 230 Volts. All electrical wiring must comply with local codes and regulations.
- Water Hazard:** Turn off the water supply before installing or servicing the unit. Be aware of hot water temperatures during operation.
- Professional Installation:** Installation should be performed by a qualified plumber or electrician in accordance with all applicable local and national codes.
- Operating Temperature:** Do not operate the unit outside its specified temperature range.
- Product Integrity:** Do not modify the product in any way. Use only genuine Taco replacement parts.

3. PRODUCT OVERVIEW

The Taco SmartPlus-e system consists of the ECM High-Efficiency Hot Water Circulator and the SmartPlug Instant Hot Water Control. Familiarize yourself with the components shown below:



Figure 3.1: Taco SmartPlus-e System Components

The image displays the Taco SPE1006E3LC ECM High-Efficiency Hot Water Circulator alongside the SmartPlug Instant Hot Water Control. The circulator features a dial for flow adjustment (Min to Max) and a status indicator light. The SmartPlug unit has an electrical outlet, indicator lights for Power, Mode, and Sensor, and controls for Fuse, Sensor, and Mode Select.

The circulator is designed for efficient water movement, while the SmartPlug provides intelligent control over the hot water recirculation process.

4. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your SmartPlus-e system. It is strongly recommended that installation be performed by a certified professional.

4.1 Plumbing Connections

- Identify the hot water supply line and the return line (if applicable) near your water heater.
- Install the circulator pump in the designated location, ensuring proper flow direction as indicated on the unit.
- Use appropriate fittings and sealants to ensure leak-free connections.

4.2 Electrical Connections

- Ensure the main power supply to the water heater circuit is OFF.
- Connect the SmartPlug Instant Hot Water Control to a dedicated 230 Volt electrical outlet.
- Connect the circulator pump to the SmartPlug unit according to the wiring diagram provided with the product packaging.
- Verify all connections are secure before restoring power.

4.3 Initial Startup

- Slowly open the water supply valves to fill the system. Check for any leaks.
- Restore electrical power to the circuit.
- Observe the status indicator on the circulator and the SmartPlug for proper operation.

5. OPERATING INSTRUCTIONS

The SmartPlus-e system is designed for automated operation to provide instant hot water. Once properly installed and powered, the system will begin its recirculation cycles.

5.1 SmartPlug Controls

- **Power Indicator:** Illuminates when the SmartPlug is receiving power.
- **Mode Indicator:** Indicates the current operating mode of the SmartPlug (e.g., sensor mode, timer mode). Refer to the detailed SmartPlug manual for specific mode configurations.
- **Sensor Indicator:** Illuminates when the temperature sensor is active and detecting water temperature.
- **Mode Select Button:** Used to cycle through available operating modes.
- **Fuse:** Contains a protective fuse. Refer to the SmartPlug manual for fuse replacement instructions.

5.2 Circulator Adjustment

The circulator pump features a dial for adjusting the flow rate from Minimum (Min) to Maximum (Max). Adjust this dial as needed to optimize hot water delivery based on your system's requirements and pipe length. Start with a mid-range setting and adjust incrementally.

6. MAINTENANCE

The Taco SmartPlus-e system is designed for minimal maintenance. However, periodic checks can ensure continued efficient operation.

- **Annual Inspection:** Annually inspect the unit for any signs of leaks, corrosion, or unusual noises.
- **Cleanliness:** Keep the area around the circulator and SmartPlug clean and free of debris.
- **Electrical Connections:** Periodically check electrical connections for tightness and signs of wear. Ensure power is off before inspecting.
- **Water Quality:** Poor water quality can affect pump longevity. Consider water treatment if you have hard water or high sediment content.

7. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
No hot water or long wait time.	<ul style="list-style-type: none"> ◦ Power not supplied to SmartPlug. ◦ Circulator not running. ◦ Incorrect SmartPlug mode. ◦ Air in the system. 	<ul style="list-style-type: none"> ◦ Check power outlet and circuit breaker. ◦ Verify circulator is properly connected to SmartPlug. ◦ Adjust SmartPlug mode using the Mode Select button. ◦ Bleed air from the plumbing system.
Circulator making unusual noise.	<ul style="list-style-type: none"> ◦ Air in the pump. ◦ Debris in the pump. ◦ Worn bearings. 	<ul style="list-style-type: none"> ◦ Bleed air from the system. ◦ Consult a professional for inspection and cleaning. ◦ Contact customer support for service.
SmartPlug indicator lights off.	<ul style="list-style-type: none"> ◦ No power to the outlet. ◦ Blown fuse in SmartPlug. 	<ul style="list-style-type: none"> ◦ Check circuit breaker and outlet. ◦ Replace fuse (refer to SmartPlug manual for type and procedure).

8. SPECIFICATIONS

Attribute	Detail
Brand	Taco
Model Number	SPE1006E3LC (Part Number: Spe-1)
Voltage	230 Volts
Type	ECM High-Efficiency Hot Water Circulator with SmartPlug
Item Weight	5.6 pounds
Product Dimensions	8.9 x 6.7 x 6 inches
Included Components	SmartPlus-e (Circulator and SmartPlug)
Batteries Required?	No
UPC	190145491334
Date First Available	May 4, 2018

9. WARRANTY INFORMATION

Taco products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to your SmartPlus-e system, please refer to the warranty card included with your product packaging or visit the official Taco website. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

If you require further assistance, technical support, or have questions not covered in this manual, please contact Taco customer support. Contact information can typically be found on the product packaging, the official Taco website, or through your authorized dealer.

Thank you for choosing Taco for your hot water comfort needs.