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**thermoflow Elex 3.5L**

# Thermoflow Mini Tankless Water Heater

Model: Elex 3.5L

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Thermoflow 3.5kW 110-120V Mini Tankless Electric Point of Use Water Heater. This compact unit is designed to provide instant hot water at the point of use, eliminating the need for preheating and reducing energy waste. Please read this manual thoroughly before installation and retain it for future reference.



Figure 1: Thermoflow Mini Tankless Water Heater (Model Elex 3.5L)

## 2. SAFETY INFORMATION

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Adherence to the following safety guidelines is crucial for preventing property damage, personal injury, or death. Installation and service must be performed by a qualified professional.

- **Electrical Safety:** This unit requires a dedicated electrical circuit. Ensure the power supply matches the unit's requirements (110-120 volts, 3.5 kW, 29 Amps). A 1 x 2-POLE 30 AMP breaker is required and is NOT included. All wiring must comply with national and local electrical codes.
- **Water Pressure:** The maximum operating pressure is 150 PSI. Ensure your water supply pressure is within this limit. Installation of a pressure regulating valve may be necessary if pressure exceeds this.
- **Water Temperature:** The unit can heat water up to 122°F (50°C). Exercise caution to prevent scalding, especially when used by children or individuals with reduced physical, sensory, or mental capabilities.
- **Installation Location:** Install the unit in a location protected from freezing temperatures. Ensure adequate ventilation and accessibility for maintenance.
- **Leakage:** Regularly inspect the unit and connections for any signs of water leakage. Address any leaks immediately.

## 3. PACKAGE CONTENTS

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Verify that all components are present before beginning installation:

- Thermoflow Mini Tankless Water Heater (Model Elex 3.5L)
- Mounting hardware
- Connector(s)
- Instruction Manual



Figure 2: Example of unit included in package

## 4. INSTALLATION

### 4.1 Site Selection and Mounting

The Thermoflow Mini Tankless Water Heater is designed for point-of-use applications, typically under or over a sink. It can be mounted vertically or upside down.

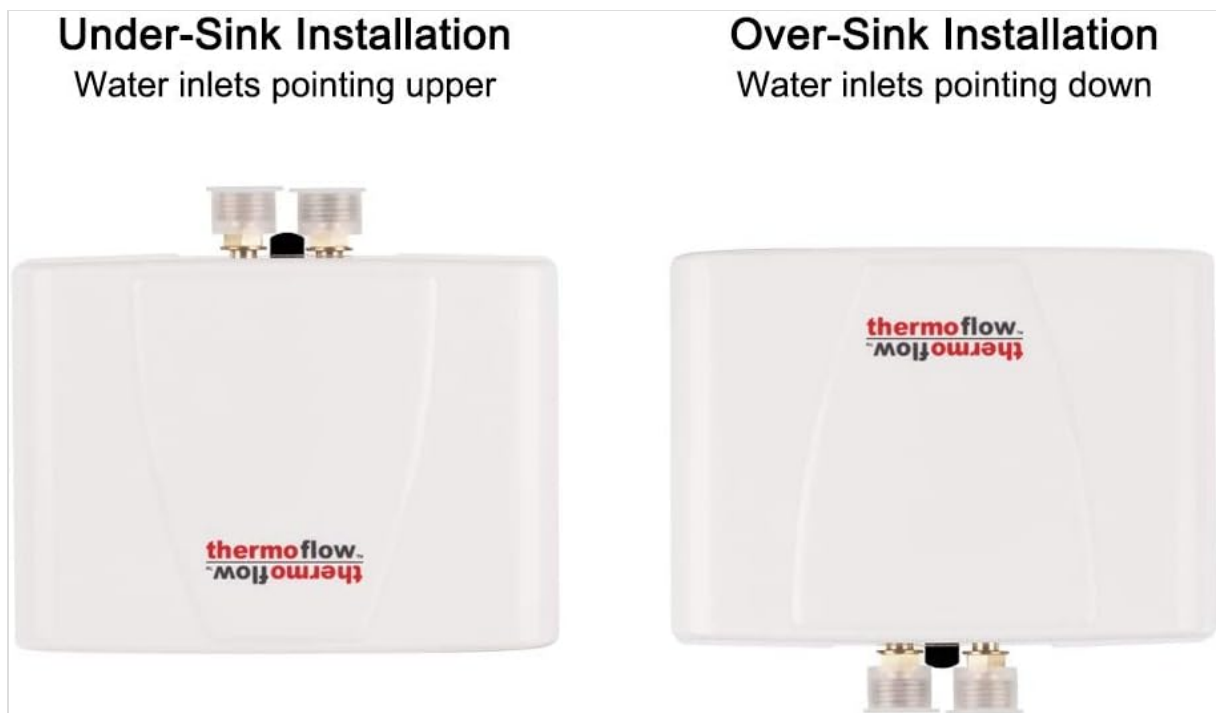


Figure 3: Under-Sink (water inlets pointing up) and Over-Sink (water inlets pointing down) Installation

### 4.2 Plumbing Connections

Connect the water heater to your cold water supply and hot water faucet using 1/2" NPT pipe fittings. Ensure all connections are secure and leak-free. It is recommended to install a shut-off valve on the cold water inlet line for future maintenance.



# 3.5kW Instant Tankless Water Heater

2s Fast Heating



Hot Water Washing



Washing Vegetable



Dish Washing



Washing Clothes

Figure 5: Applications of Instant Hot Water

## 5.1 Advanced Flow Control

The unit includes an exclusive Advanced Flow Control feature. If the demand for hot water temporarily exceeds the unit's capacity, you can slightly reduce the water flow at the faucet to maintain a consistent hot water temperature. This helps prevent sudden temperature drops during peak usage.

# Exclusive Advanced Flow Control

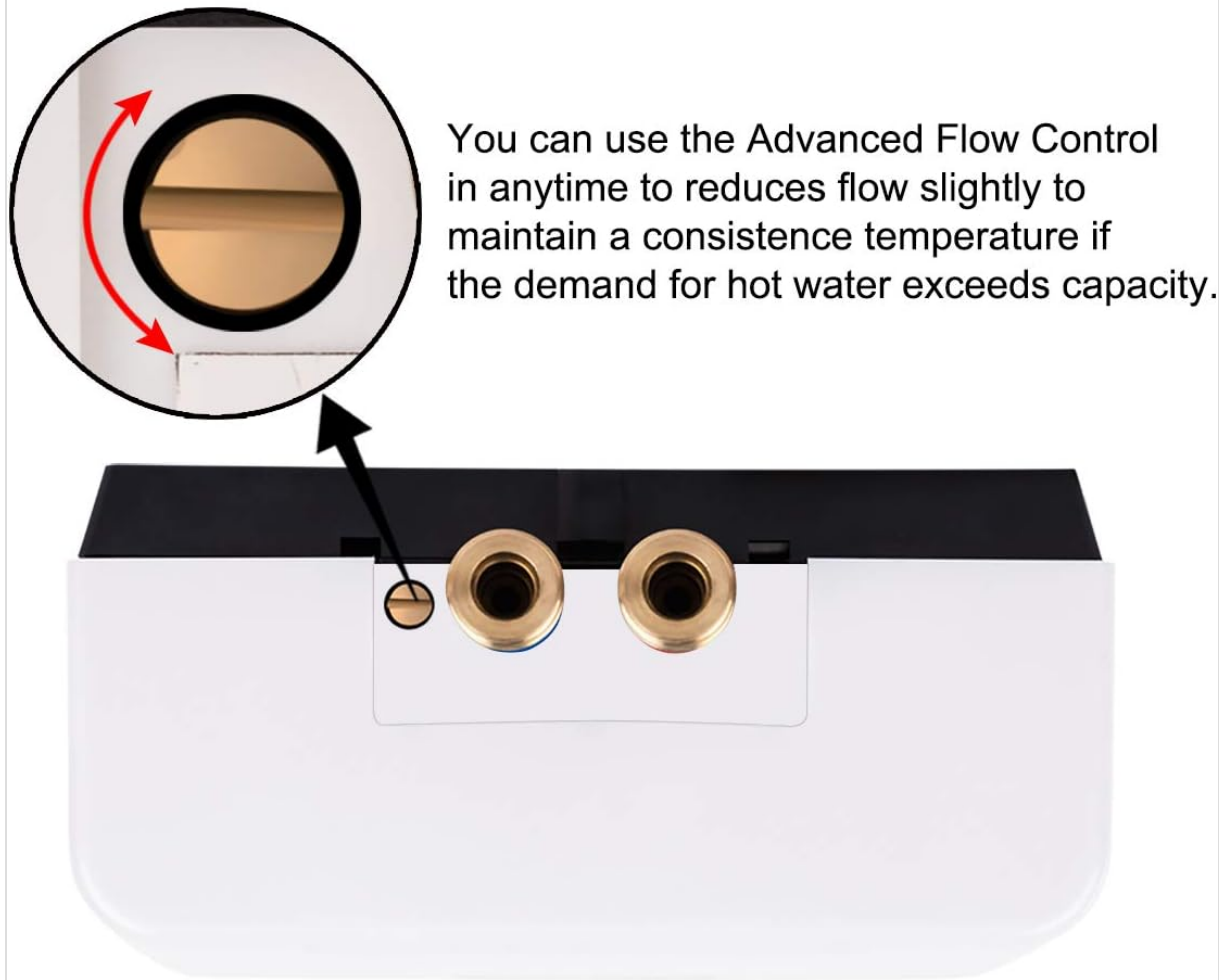


Figure 6: Advanced Flow Control Mechanism

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your water heater.

- **Periodic Inspection:** Annually inspect all water connections for leaks and tighten if necessary.
- **Cleaning:** The exterior of the unit can be wiped clean with a damp cloth. Do not use abrasive cleaners.
- **Sediment Check:** If water flow decreases or temperature fluctuates, check for sediment buildup in the inlet filter (if applicable) and clean as needed.
- **Winterization:** If the unit is in an area prone to freezing and will not be used for an extended period, drain the unit completely to prevent damage from freezing water.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No hot water / Unit not heating	No power; Breaker tripped; Water flow too low; Heating element failure.	Check power supply and breaker. Ensure adequate water flow. Reset unit if applicable. If problem persists, contact qualified service personnel.
Water not hot enough	Inlet water temperature too low; Water flow too high; Incorrect temperature setting.	Reduce water flow at the faucet. Ensure temperature setting is appropriate. Refer to GPM chart in specifications.
Water too hot / Scalding	Temperature setting too high; Malfunctioning thermostat.	Adjust temperature setting. If issue persists, contact qualified service personnel.
Water leakage	Loose connections; Damaged fittings; Internal leak.	Tighten all plumbing connections. Inspect fittings for damage. If internal leak, contact qualified service personnel.
Reduced water flow	Sediment buildup in filter or pipes.	Check and clean inlet filter. Flush water lines.

## 8. SPECIFICATIONS

Detailed technical specifications for the Thermoflow Mini Tankless Water Heater (Model Elex 3.5L).

Specification	Value
Brand	thermoflow
Model Number	Elex 3.5L
Style	3500W
Voltage	110-120 Volts
Wattage	3.5 KW
Amperage Capacity	29 Amps
Product Dimensions (W x H x D)	7.4" x 5.4" x 3.4"
Item Weight	3 pounds
Maximum Temperature	122 Degrees Fahrenheit (50°C)
Minimum Temperature	95 Degrees Fahrenheit (35°C)
Maximum Operating Pressure	150 PSI
Pipe Fittings	1/2" NPT

Specification	Value
Required Wire	1 x 12 AWG
Required Breakers	1 x 2-POLE 30 AMP (NOT included)
Certification	CSA Certified
Efficiency	High efficient, Energy Saving (up to 99% instantaneous heating efficiency)
Mounting Type	Wall Mounted (vertical or upside down)
Included Components	Connector



Figure 7: Product Dimensions



Figure 8: Usage Guide based on Inlet Water Temperature and GPM

## 9. WARRANTY AND SUPPORT

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Thermostat products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase documentation or visit the official Thermostat website. Please have your model number (Elex 3.5L) and purchase date available when contacting support.