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Thermoflow Elex 5.5-Plus Electric Mini Tankless Water Heater

USER MANUAL

1. INTRODUCTION

Thank you for choosing the Thermoflow Elex 5.5-Plus Electric Mini Tankless Water Heater. This manual provides essential information for the safe installation, operation, and maintenance of your new water heater. Please read this manual thoroughly before installation and keep it for future reference.

This compact, point-of-use water heater is designed to provide instant hot water for single-sink applications, eliminating the need for preheating and saving energy.

2. SAFETY INFORMATION

IMPORTANT: This appliance must be installed by a qualified electrician and plumber in accordance with all local and national electrical and plumbing codes.

General Safety Precautions

- Do not operate this water heater if it has been damaged or is not functioning properly.
- Ensure the power supply matches the specifications of the unit (240V, 5500W).
- Always disconnect power before performing any maintenance or service.
- Do not block or restrict the water inlet or outlet.
- This unit is designed for indoor use only and must be protected from freezing temperatures.
- Maintain proper clearances around the unit as specified in the installation section.
- Do not attempt to repair the unit yourself. Contact qualified service personnel.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

3. PRODUCT OVERVIEW

The Thermoflow Elex 5.5-Plus is a compact and efficient tankless water heater featuring advanced technology for instant hot water delivery.

Key Features

- **Instant Endless Hot Water:** No preheating required, provides hot water within 2 seconds.
- **LED Temperature Display:** Digital display shows real-time water temperature (95°F to 122°F).
- **Smart Modulation System:** Automatically adjusts power to maintain stable output temperature.
- **Energy Saving:** Tankless design eliminates standby heat loss, saving up to 60% on water heating costs.
- **Compact Design:** Ideal for point-of-use applications under or over a sink.
- **CSA Certified:** Ensures safety and quality standards are met.
- **Multiple Protections:** Includes leakage protection, overheat protection, over voltage protection, dry heating protection, and IPX4 waterproof rating.

Product Components



Figure 3.1: Front view of the Thermoflow Elex 5.5-Plus water heater showing the digital display and water connections.

5500W Mini Tankless Water Heater 220-240V

No Wait for Hot Water at Your Sink



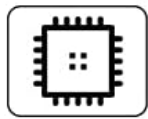
CSA Certified



Constant Temperature



Instant Heating



Self-Modulating Tech



Leakage Protection



Over Heat Protection



Over Voltage Protection



Dry Heating Protection



IPX24 Waterproof

Figure 3.2: Diagram illustrating key features and safety protections of the water heater, including CSA certification, constant temperature, instant heating, self-modulating tech, leakage protection, overheat protection, over voltage protection, dry heating protection, and IPX4 waterproof rating.

Designed for Sink Only

Compact size, suit for narrow cabinet space.



Hot Water Washing



Washing Vegetable



Dish Washing



Washing Clothes

Figure 3.3: Examples of typical uses for the Thermoflow Elex 5.5-Plus, such as hot water washing, washing vegetables, dish washing, and washing clothes, highlighting its suitability for sink-only applications.

Compact & Stylish Designed



Figure 3.4: Size comparison of the Thermoflow Elex 5.5-Plus water heater next to an iPad mini 5, demonstrating its compact and stylish design.

4. SPECIFICATIONS

Specification	Value
Model Number	Elex 5.5-Plus
Power Rating	5500 Watts (5.5 kW)
Voltage	240 Volts
Amperage Capacity	23 Amps
Product Dimensions (W x H x D)	7.4" x 5.4" x 3.4" (18.8cm x 13.7cm x 8.6cm)
Item Weight	3.04 pounds
Maximum Flow Rate	1.07 Gallons Per Minute
Temperature Range	95°F - 122°F
Maximum Operating Pressure	115 PSI
Water Connection	1/2" NPT
Required Wire	1 x 12 AWG
Required Breakers	1 x 2-POLE 30 AMP (Not included)
Mounting Type	Wall-Mounted
Display Style	LED
Certifications	CSA Certified



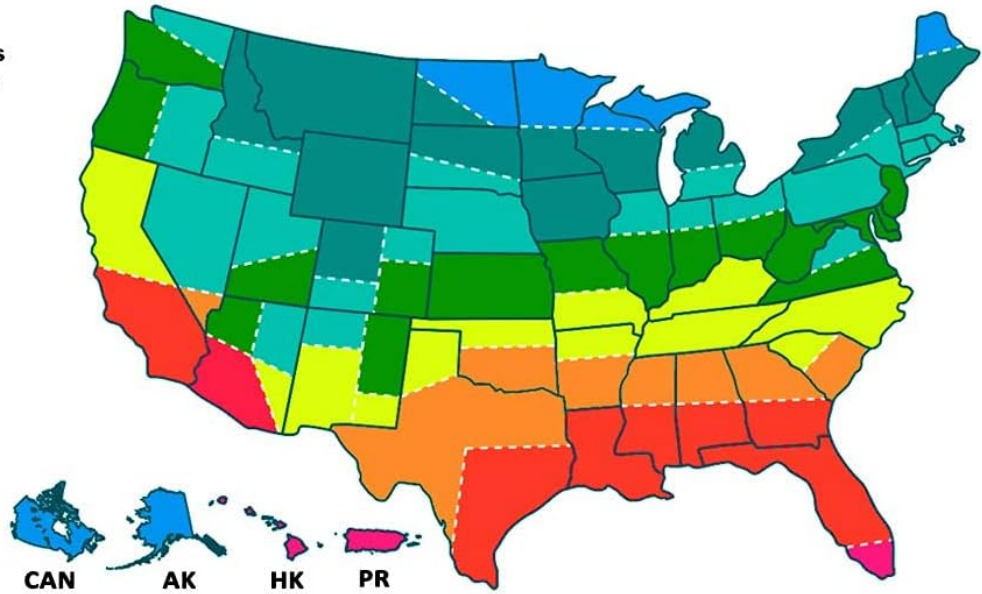
Figure 4.1: Detailed dimensions of the Thermoflow Elex 5.5-Plus water heater.

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3 Smart Steps for Choosing Endless Hot Water

1 The Thermoflow tankless water heater you choose depends on your local climate. Refer to this chart to find out which model best suits your needs.

- 37°F
- 42°F
- 47°F
- 52°F
- 57°F
- 62°F
- 67°F
- 72°F
- 77°F



2 Match your location on the map, shown above, to the corres chart below to determine unit capacity.

Inlet Temp: 37°F

Model	GPM	Approx.Usage
Elex 5.5-Plus	0.55	

Inlet Temp: 42°F

Model	GPM	Approx.Usage
Elex 5.5-Plus	0.60	

Inlet Temp: 47°F

Model	GPM	Approx.Usage
Elex 5.5-Plus	0.64	

Inlet Temp: 52°F

Model	GPM	Approx.Usage
Elex 5.5-Plus	0.71	

Inlet Temp: 57°F

Model	GPM	Approx.Usage
Elex 5.5-Plus	0.79	

Inlet Temp: 62°F

Model	GPM	Approx.Usage
Elex 5.5-Plus	0.88	

Inlet Temp: 67°F

Model	GPM	Approx.Usage
Elex 5.5-Plus	0.99	

Inlet Temp: 72°F

Model	GPM	Approx.Usage
Elex 5.5-Plus	1.13	

Inlet Temp: 77°F

Model	GPM	Approx.Usage
Elex 5.5-Plus	1.34	

- Represents a hand sink faucet opened full with a flow of 0.5 GPM
- Represents a sink faucet opened half way with a flow of 0.25 GPM
- Represents a water-saver shower open full with 1.5 GPM

Results based on outlet temperature of 105°F

Water-Saver Shower Head	1.5 GPM
Standard Shower Head	2.0 GPM
Standard Hand Sink	0.5 GPM
Kitchen Sink	1-2 GPM
Bath Tub	≥ 4 GPM
Dishwasher	1-2 GPM
Washing Machine	1-1.5 GPM

Average Gallons Per Minute (GPM)
Based on 2010 Plumbing Standards

3 Check dimensions and electrical specifications in the chart below.

Model Number	kW	Voltage	Tem.Rang.	Max Amperage	Required Breaker	Wire Gauge	Size	Weight	Water Connection
Elex 5.5-Plus	5.5	240V	95-131F	23	1x30APM	12AWG	5.38" x 7.38" x 3.38"	3.0 lbs	1/2NPT

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Technology of Germany

Figure 4.2: Chart providing guidance on choosing the right tankless water heater based on climate, inlet water temperature, and approximate usage, along with detailed electrical and physical specifications.

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your Thermoflow water heater. It must be installed by a licensed professional.

Installation Requirements

- **Location:** Install the unit as close as possible to the point of use to minimize heat loss. It can be mounted vertically or upside down (under-sink or over-sink).
- **Water Supply:** Connect to a cold water supply. The unit has 1/2" NPT pipe fittings. Ensure water pressure is within 15-115 PSI.
- **Electrical Supply:** Requires a dedicated 240V, 30 Amp circuit. Must be hard-wired with 1 x 12 AWG wire. A 2-pole 30 AMP breaker is required (not included).
- **Clearances:** Ensure adequate space around the unit for ventilation and maintenance.

Installation Steps

1. **Mounting:** Securely mount the unit to a wall using appropriate fasteners. The unit can be installed under a sink (water inlets pointing up) or over a sink (water inlets pointing down).



Figure 5.1: Illustration of under-sink (water inlets pointing upper) and over-sink (water inlets pointing down) installation options for the water heater, showing the automatic rotation of the LED display.

2. **Plumbing Connections:** Connect the cold water inlet to the unit's inlet port and the hot water outlet to the fixture's hot water line. Ensure all connections are tight and leak-free.

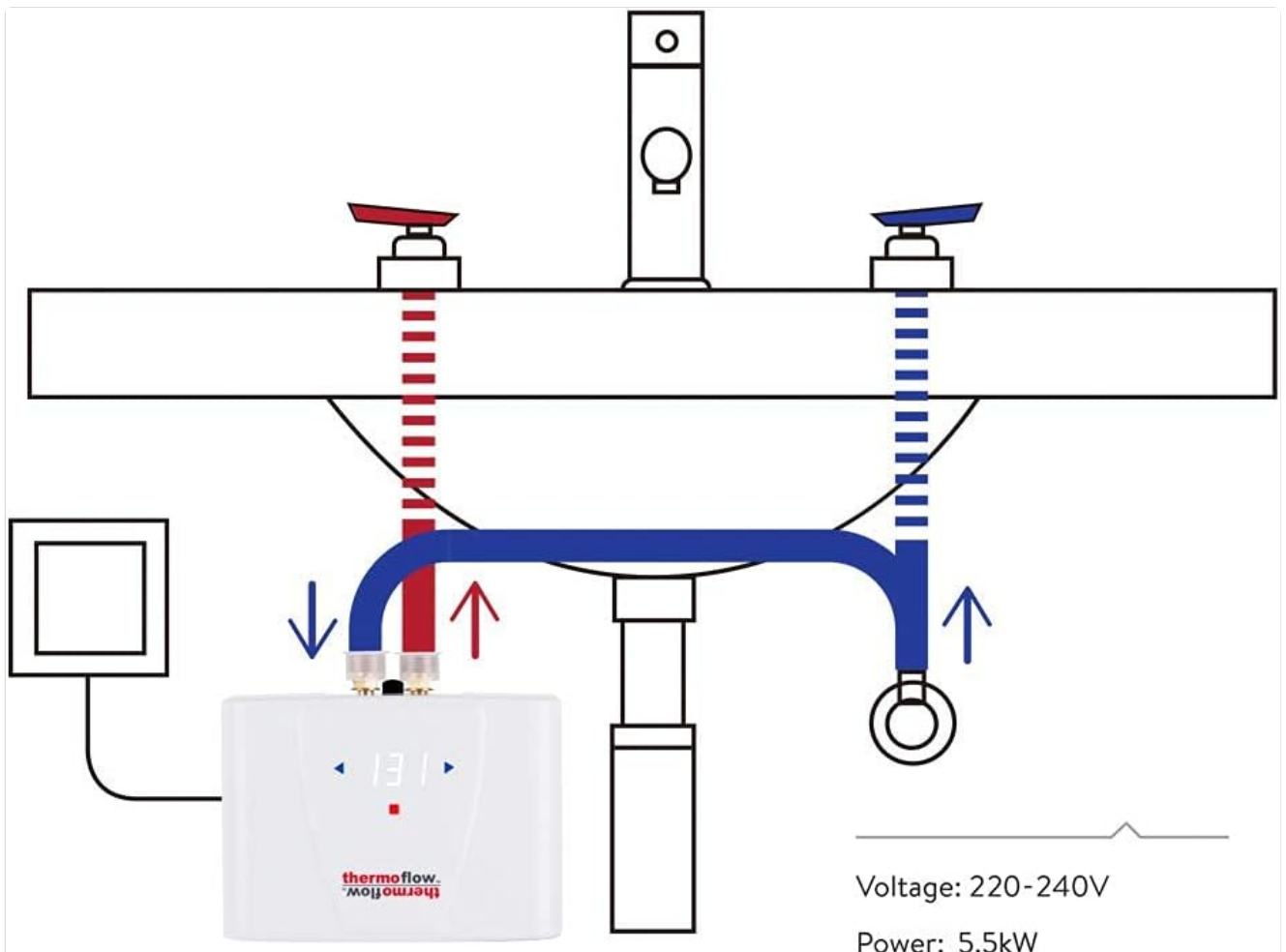


Figure 5.2: Plumbing diagram showing the connection of the Thermoflow Elex 5.5-Plus water heater to a sink, indicating cold water inlet (blue) and hot water outlet (red) lines.

3. **Electrical Connections:** Connect the unit to the dedicated 240V, 30 Amp circuit. Follow all local electrical codes. The unit has a 28" fixed power cable for hardwiring.
4. **Purge Air:** Before turning on power, open the hot water faucet at the sink and allow water to flow through the unit for several minutes until all air is purged from the system. This prevents dry heating.
5. **Power On:** Once air is purged, turn on the electrical breaker to power the unit.

6. OPERATING INSTRUCTIONS

The Thermoflow Elex 5.5-Plus is designed for simple operation.

Initial Startup

- After installation and purging air, turn on the power. The LED display will illuminate.
- Open the hot water faucet. The unit will detect water flow and begin heating instantly.
- The display will show the real-time output water temperature.

Temperature Adjustment

- Use the touch controls (arrows next to the display) to adjust the desired temperature.
- The temperature range is from 95°F to 122°F.
- The smart modulation system will automatically adjust power to maintain the set temperature, even with changes in flow rate.

Advanced Flow Control

Exclusive Advanced Flow Control



You can use the Advanced Flow Control in anytime to reduces flow slightly to maintain a consistence temperature if the demand for hot water exceeds capacity.

Figure 6.1: Detail of the Advanced Flow Control mechanism, which can be adjusted to slightly reduce flow and maintain consistent temperature if hot water demand exceeds the unit's capacity.

The unit features an Advanced Flow Control mechanism. In situations where the demand for hot water might exceed the unit's capacity (e.g., very cold inlet water or high flow rate), you can slightly reduce the water flow at the faucet or adjust this control to help maintain a consistent output temperature.

7. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your water heater.

- **Cleaning:** Clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inlet Filter:** Periodically check and clean the inlet water filter to prevent sediment buildup. Turn off power and water supply before accessing the filter.
- **Scale Buildup:** In areas with hard water, mineral scale can build up inside the unit. If you notice reduced flow or heating efficiency, consult a qualified plumber for descaling.
- **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.

8. TROUBLESHOOTING

Before calling for service, please check the following common issues and solutions:

Problem	Possible Cause	Solution
No hot water / Unit not turning on	No power; Breaker tripped; No water flow; Air in system.	Check power supply and breaker. Ensure water faucet is open. Purge air from system by running water.
Water not hot enough	Temperature setting too low; Insufficient flow rate; Cold inlet water; Scale buildup.	Increase temperature setting. Reduce water flow at faucet. Consult plumber for descaling if necessary.
Water too hot	Temperature setting too high.	Decrease temperature setting.
Low water pressure / flow	Clogged inlet filter; Kinked water lines; Scale buildup.	Clean inlet filter. Check water lines. Consult plumber for descaling.
Leakage	Loose connections; Damaged seals.	Turn off water and power. Tighten connections. Contact qualified service personnel if leak persists.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official Thermoflow website. Keep your purchase receipt as proof of purchase.

Contact Information:

Brand: Thermoflow

Website: [Thermoflow Official Store on Amazon](#) (for general information)

Model: Elex 5.5-Plus

UPC: 698253589276