

## ANZZI WH-AZ024-M3

# ANZZI Envo Electric Tankless Water Heater 24 kW (WH-AZ024-M3) User Manual

Model: WH-AZ024-M3 | Brand: ANZZI

## 1. SAFETY INFORMATION

Read all instructions thoroughly before installation and operation. Failure to follow these instructions may result in property damage, personal injury, or death. This appliance must be installed by a qualified electrician and plumber in accordance with all national and local electrical and plumbing codes.

- **Electrical Hazard:** Ensure power is disconnected at the circuit breaker before performing any installation or maintenance.
- **Water Pressure:** Do not operate the unit if water pressure is below the minimum required.
- **Temperature Settings:** Be aware of potential scalding hazards if the temperature is set too high.
- **Grounding:** This appliance must be properly grounded.

## 2. PRODUCT OVERVIEW

The ANZZI Envo Electric Tankless Water Heater provides on-demand hot water without the need for a storage tank. Its compact design allows for installation in various locations, saving space and reducing standby heat loss. This unit is designed for continuous hot water supply to multiple fixtures.

### Key Features:

- Heats water only when needed, eliminating standby heat loss.
- Compact design for installation in tight spaces.
- Supplies hot water to kitchen faucets, bathroom faucets, and showers.
- Features an LED display and overheat protection.



**Figure 1:** Front view of the ANZZI Envo Electric Tankless Water Heater, showcasing its green casing and digital temperature display.

### 3. SPECIFICATIONS

Attribute	Value
Brand	ANZZI
Model Number	WH-AZ024-M3
Wattage	24000 watts (24 kW)
Voltage	240 Volts
Heat Output	24000 Watts
Efficiency	High Efficiency
Mounting Type	Wall
Product Dimensions	3.54 x 10.24 x 15.16 inches
Item Weight	16.87 pounds
Special Features	LED Display, Overheat Protection
Certification	ETL

## 4. INSTALLATION

Professional installation is recommended for this appliance. Consult a licensed electrician and plumber prior to purchase and installation to ensure compliance with all local codes and proper sizing for your household needs.

### 4.1 Electrical Requirements

The ANZZI Envo 24 kW unit requires significant electrical capacity. Ensure your breaker panel can accommodate the following:

- **Maximum Draw:** 100 Amps
- **Required Breaker:** 3 x 40 AMP Double Pole Breakers
- **Required Wire:** 3x8 AWG
- **Minimum Panel Capacity:** 200 Amps or more recommended.

- 1 Choose ENVO tankless water heater based on your local climate. Refer to this chart to find out the best model for you.

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

Map shows general temperature areas, actual temperature may be affected by local variations and seasonal changes.



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- 2 Match your location on above map and refer to below chart to determine unit capacity.

Flow required for fixtures:

Hand Sink	0.5 ~ 1.0 GPM
Kitchen Sink	1.0 ~ 2.0 GPM
Shower Head	1.5 ~ 2.0 GPM
Bathtub	4.0 ~ 5.0 GPM



Represents a hand sink faucet working on flow of 0.5 GPM



Represents a water saving shower head working on flow of 1.5 GPM

Below data based on outlet temperature of 105°F and indicated fixtures working simultaneously.

#### Inlet Temp: 37 °F

Model	GPM	Approx. Usage
WH-AZ018-M3	1.8	
WH-AZ021-M3	2.2	
WH-AZ024-M3	2.4	
WH-AZ027-M3	2.6	

#### Inlet Temp: 42 °F

Model	GPM	Approx. Usage
WH-AZ018-M3	2.0	
WH-AZ021-M3	2.3	
WH-AZ024-M3	2.6	
WH-AZ027-M3	2.8	

#### Inlet Temp: 47 °F

Model	GPM	Approx. Usage
WH-AZ018-M3	2.2	
WH-AZ021-M3	2.5	
WH-AZ024-M3	2.8	
WH-AZ027-M3	3.0	

#### Inlet Temp: 52 °F

Model	GPM	Approx. Usage
WH-AZ018-M3	2.4	
WH-AZ021-M3	2.7	
WH-AZ024-M3	3.0	
WH-AZ027-M3	3.3	

#### Inlet Temp: 57 °F

Model	GPM	Approx. Usage
WH-AZ018-M3	2.6	
WH-AZ021-M3	3.0	
WH-AZ024-M3	3.5	
WH-AZ027-M3	3.8	

#### Inlet Temp: 62 °F

Model	GPM	Approx. Usage
WH-AZ018-M3	3.0	
WH-AZ021-M3	3.5	
WH-AZ024-M3	4.0	
WH-AZ027-M3	4.3	

#### Inlet Temp: 67 °F

Model	GPM	Approx. Usage
WH-AZ018-M3	3.5	
WH-AZ021-M3	4.0	
WH-AZ024-M3	4.5	
WH-AZ027-M3	4.9	

#### Inlet Temp: 72 °F

Model	GPM	Approx. Usage
WH-AZ018-M3	4.0	
WH-AZ021-M3	4.5	
WH-AZ024-M3	5.0	
WH-AZ027-M3	5.5	

#### Inlet Temp: 77 °F

Model	GPM	Approx. Usage
WH-AZ018-M3	4.5	
WH-AZ021-M3	5.0	
WH-AZ024-M3	5.5	
WH-AZ027-M3	6.0	

Figure 2: Electrical requirements diagram for the ANZZI Envo 24 kW tankless water heater, detailing breaker and wire specifications.

## 4.2 Unit Capacity and Sizing

The performance of your tankless water heater depends on the incoming water temperature and the desired flow rate. Refer to the chart below to determine the appropriate unit capacity for your local climate and usage needs.





**Figure 3:** A map illustrating general temperature areas across the US, alongside a chart detailing GPM (Gallons Per Minute) usage for various fixtures at different inlet water temperatures, assuming an outlet temperature of 105°F.

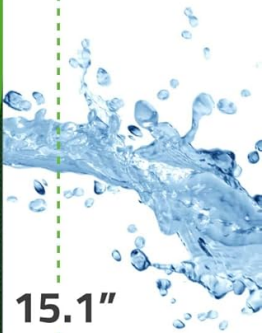
### 4.3 Placement Considerations

The compact design of the ANZZI Envo allows for flexible installation. It can be installed in various locations such as under sinks, in utility closets, or garages, provided electrical and plumbing requirements are met.



**Figure 4:** Example installation of the ANZZI Envo tankless water heater within a bathroom cabinet, demonstrating its space-saving design.

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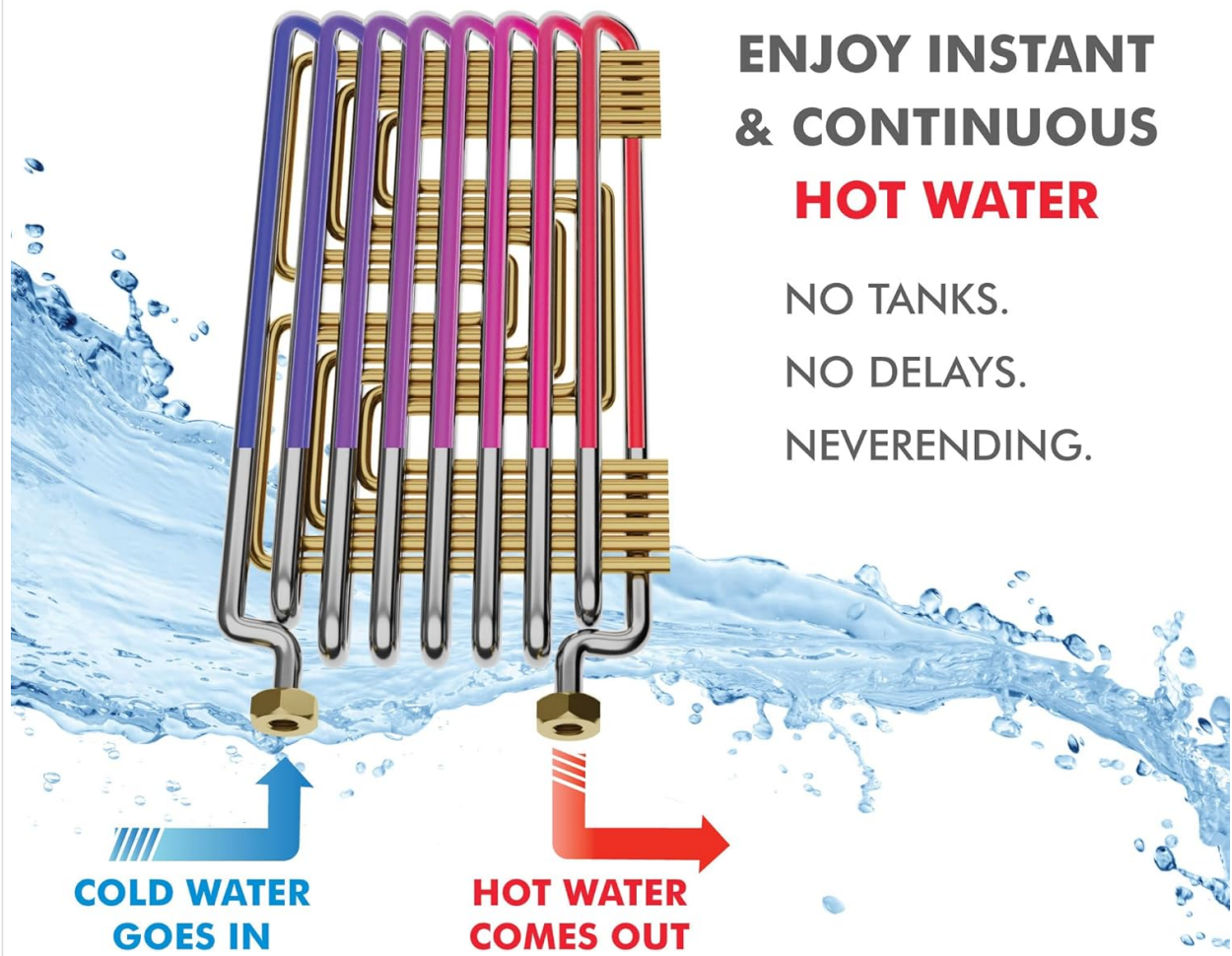
## ARIMA

### TANKLESS INSTANT WATER HEATER

- OVERALL: 10.2 x 3.5 x 15.1 in.
- TEMP RANGE: 86°F - 125°F
- AVAILABLE IN 11KW/15KW/18KW/21KW/24KW/27KW
- 240V / 60HZ



**Figure 5:** An illustration showing the ANZZI Envo tankless water heater installed in a garage, providing hot water to multiple points of use in an adjacent kitchen and an upstairs bathroom.



**Figure 6:** Detailed dimensions of the ANZZI Envo tankless water heater, measuring approximately 10.2 inches wide by 15.1 inches high.

## 5. OPERATING INSTRUCTIONS

The ANZZI Envo tankless water heater is designed for user-friendly operation. Once installed and powered, the unit will display the current water temperature.

### 5.1 Temperature Adjustment

- Use the up and down arrow buttons on the front panel to adjust the desired water temperature.
- The LED display will show the set temperature.
- The unit will automatically heat water to the set temperature when flow is detected.

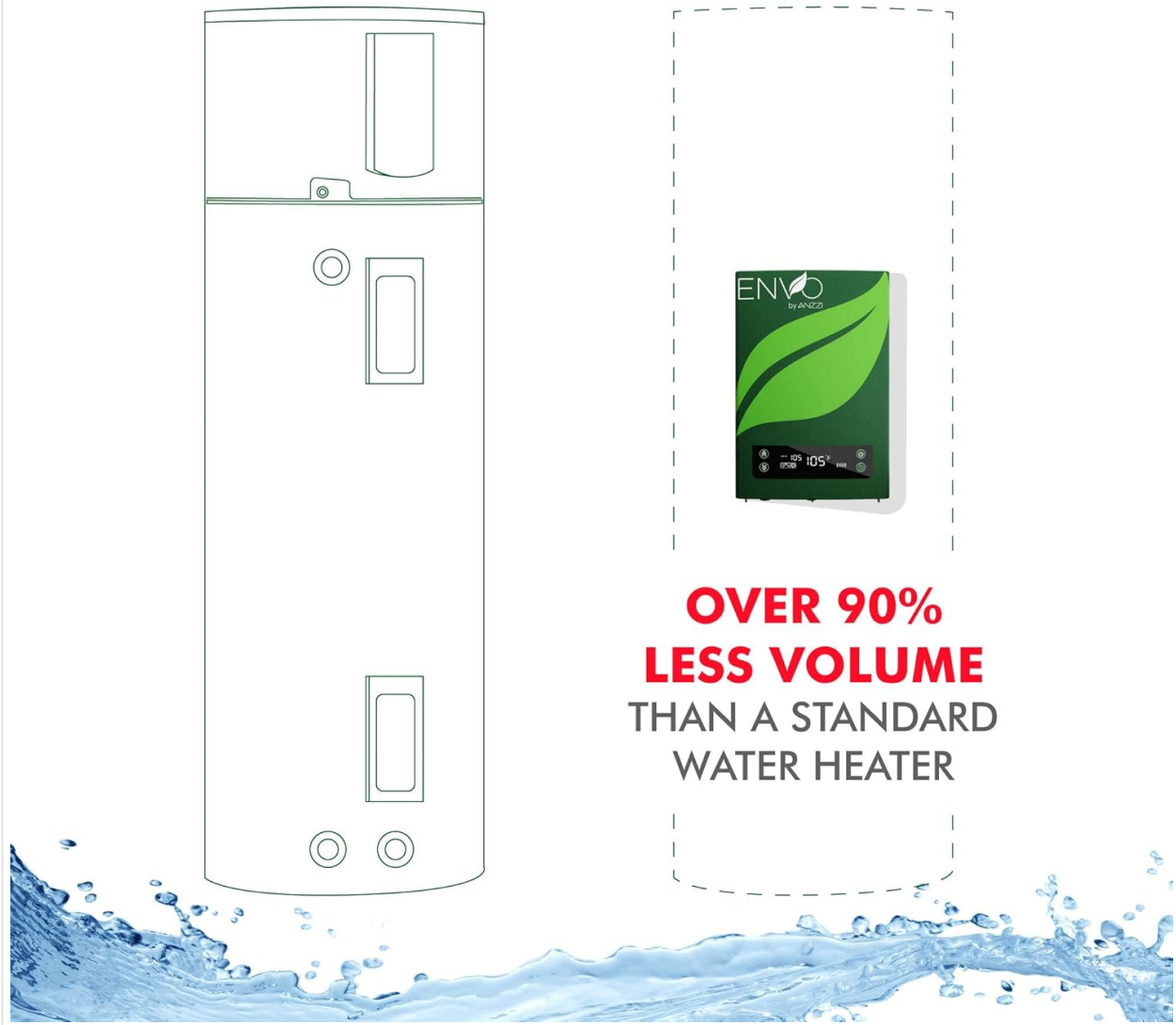




**Figure 7:** Internal diagram illustrating the flow of cold water into the heating element and the output of continuous hot water, highlighting the instant heating process.

## 5.2 Hot Water Delivery

The unit provides instant and continuous hot water on demand. Open any hot water faucet to activate the heater. The unit will begin heating water as it flows through.



**Figure 8:** A shower head delivering hot water, demonstrating the instant hot water on demand feature of the ANZZI Envo tankless water heater.

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**Video 1:** An official ANZZI video demonstrating the installation and operation of the Envo Tankless Electric Water Heater, highlighting its compact size, instant hot water delivery to faucets and showers, and patented heating technology.

## 6. MAINTENANCE

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

- **Annual Inspection:** Have a qualified technician inspect the unit annually for any signs of wear or damage.
- **Cleaning:** Periodically clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners.
- **Sediment Filter:** If your water supply has high sediment, consider installing an external sediment filter and clean it regularly according to the filter manufacturer's instructions.
- **Descaling:** In areas with hard water, mineral buildup can affect performance. Consult a professional for descaling procedures if necessary.





**Figure 9:** A visual comparison demonstrating that the ANZZI Envo tankless water heater occupies over 90% less volume than a standard tank water heater.

## 7. TROUBLESHOOTING

If you experience issues with your ANZZI Envo tankless water heater, refer to the following common problems and solutions. For persistent issues, contact customer support.



Problem	Possible Cause	Solution
No hot water	No power, low water flow, unit malfunction	Check circuit breaker. Ensure adequate water flow. Contact support if power and flow are normal.
Water not hot enough	Temperature set too low, high flow rate, cold inlet water	Increase set temperature. Reduce water flow at faucet. Refer to capacity chart (Figure 3).
Unit leaks	Loose connections, damaged components	Turn off water supply and power. Inspect connections for tightness. Contact a plumber or support.
Error code on display	Internal fault	Note the error code and contact ANZZI customer support for assistance.

## 8. WARRANTY AND SUPPORT





For warranty information, please refer to the documentation included with your purchase or visit the official ANZZI website. If you require technical assistance, replacement parts, or have questions regarding your ANZZI Envo Electric Tankless Water Heater, please contact ANZZI customer support.

**ANZZI Customer Service:** Refer to your product packaging or the ANZZI website for the most current contact information.

### Related Documents - WH-AZ024-M3

	<p><a href="#">ENVO by ANZZI Electric Instant Water Heater Installation and Operation Manual</a></p> <p>Comprehensive installation, operation, safety, and troubleshooting guide for ENVO by ANZZI electric instant water heaters, covering models WH-AZ011-M3 through WH-AZ027-M3. Includes product specifications, installation steps, and maintenance advice.</p>
	<p><a href="#">ANZZI ENVO Electric Instant Water Heater Installation &amp; Operation Manual</a></p> <p>This manual provides detailed instructions for the installation, operation, safety, and maintenance of the ANZZI ENVO electric instant water heater, models WH-AZ035-M1 and WH-AZ006-M1. It includes product specifications, troubleshooting tips, and important safety precautions.</p>



 <p>ITEM SP-AZ078 ANZZI AURA SHOWER PANEL INSTALL &amp; OPERATION MANUAL US 2</p> <p><b>DON'T WAIT! REGISTER NOW!</b></p> <p>Register your product within 90 days to ensure your product is recognized as an official product and to register for warranty coverage. Visit the complete registry card (Pg. 2) or register online at <a href="http://www.anzzi.com/register">www.anzzi.com/register</a></p>	<p><a href="#">ANZZI Aura Shower Panel SP-AZ078: Installation &amp; Operation Manual</a></p> <p>Official installation and operation manual for the ANZZI Aura Shower Panel (Model SP-AZ078). Includes product registration, parts list, step-by-step installation, and care instructions.</p>
 <p>ITEM FT-AZ114-59 Freestanding Bathtub INSTALLATION &amp; OPERATION MANUAL US 2</p> <p><b>DON'T WAIT! REGISTER NOW!</b></p> <p>Register your product within 90 days to ensure your product is recognized as an official product and to register for warranty coverage. Visit the complete registry card (Pg. 2) or register online at <a href="http://www.anzzi.com/register">www.anzzi.com/register</a></p>	<p><a href="#">ANZZI FT-AZ114-59 Freestanding Bathtub Installation and Operation Manual</a></p> <p>Comprehensive installation and operation manual for the ANZZI FT-AZ114-59 Freestanding Bathtub, detailing product registration, safety guidelines, installation steps, spare parts, tools required, and cleaning and maintenance instructions.</p>
 <p>ITEM BL-EB1014 ENVO by ANZZI ELECTRIC BIDET SEAT INSTALLATION &amp; OPERATION MANUAL US 2</p> <p><b>DON'T WAIT! REGISTER NOW!</b></p> <p>Register your product within 90 days to ensure your product is recognized as an official product and to register for warranty coverage. Visit the complete registry card (Pg. 2) or register online at <a href="http://www.anzzi.com/register">www.anzzi.com/register</a></p>	<p><a href="#">ENVO by ANZZI Electric Bidet Seat Install &amp; Operation Manual</a></p> <p>This manual provides comprehensive installation, operation, and maintenance guidance for the ENVO by ANZZI Electric Bidet Seat, covering safety, setup, usage, and troubleshooting.</p>
 <p>ANZZI LANN INSTALL GUIDE US 2</p> <p>PERFECTION IS OUR TRADITION™</p>	<p><a href="#">ANZZI LANN SP-AZ015 Shower Panel Installation Guide</a></p> <p>Comprehensive installation guide for the ANZZI LANN SP-AZ015 shower panel, covering parts, setup, mounting, care, maintenance, and warranty information.</p>