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› ObigaVc ECO065 Tankless Water Heater Electric 6.5KW User Manual

ObigaVc ECO065

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Model: ECO065 | Brand: ObigaVc

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your ObigaVc ECO065 Tankless Electric Water Heater. Please read this manual thoroughly before installation and retain it for future reference.

The ObigaVc ECO065 is a compact, on-demand electric tankless water heater designed to provide instant hot water for various applications. It features a 6.5 kW heating unit, adjustable temperature settings from 85°F to 131°F, and a user-friendly LED digital display.



Image: Front view of the ObigaVc ECO065 Tankless Water Heater, displaying its digital interface with current temperature and flow rate.

SAFETY INFORMATION

Always adhere to local electrical and plumbing codes. Installation should be performed by a qualified professional. Failure to follow these instructions may result in property damage, serious injury, or death.

- Ensure the unit is properly grounded.
- Do not operate if the unit is damaged.
- Turn off power at the circuit breaker before performing any maintenance or installation.
- Maintain proper clearances around the unit as specified in the installation section.
- This appliance is designed for indoor use only.



Image: An illustration detailing the multiple safety features integrated into the water heater, such as overheating protection and water-electricity separation.

SPECIFICATIONS

Feature	Specification
Brand	ObigaVc
Model Number	ECO065
Wattage	6500 watts (6.5 KW)
Voltage	240 Volts
Product Dimensions (W x H)	6.22"W x 9.06"H
Item Depth	9.06 inches
Item Weight	3.53 pounds
Maximum Flow Rate	1.6 Gallons Per Minute
Maximum Temperature	131 Degrees Fahrenheit
Heat Output	6.5 Kilowatts
Maximum Operating Pressure	600 Kilopascal
Heating Core	Cast Aluminum



Image: The compact dimensions of the water heater, highlighting its suitability for installation in confined spaces.

INSTALLATION GUIDE

1. Location Requirements

- Install the unit indoors, protected from freezing temperatures.
- Choose a location close to the point of use to minimize heat loss.
- Ensure adequate clearance for maintenance and air circulation.
- The unit must be mounted vertically.

2. Electrical Requirements

- The unit requires a dedicated 240V circuit.
- A 30 Amp double-pole circuit breaker is required.
- Recommended wire size: 12 AWG.
- All electrical connections must comply with national and local electrical codes.

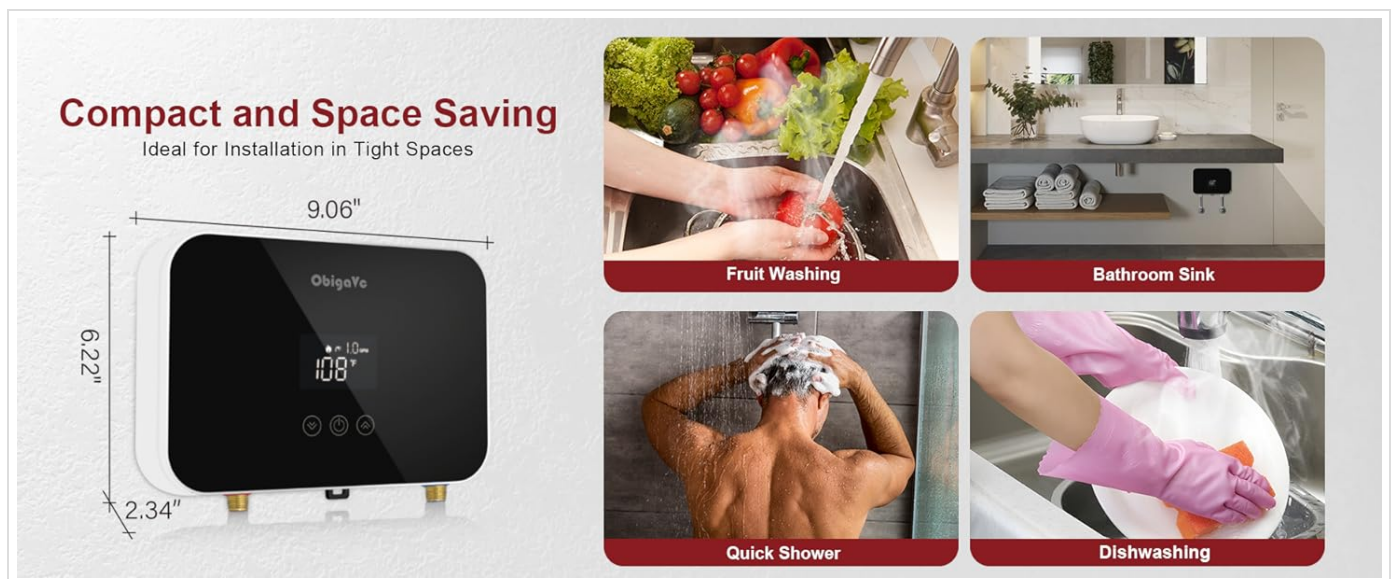


Image: An electrical wiring diagram illustrating the connection of the water heater to a circuit breaker and the plumbing setup.

3. Plumbing Requirements

- Connect to standard 1/2" NPT pipe fittings.
- Install an angle valve on the water inlet line.
- Ensure all connections are watertight to prevent leaks.
- Flush the water lines before connecting to the heater to remove debris.

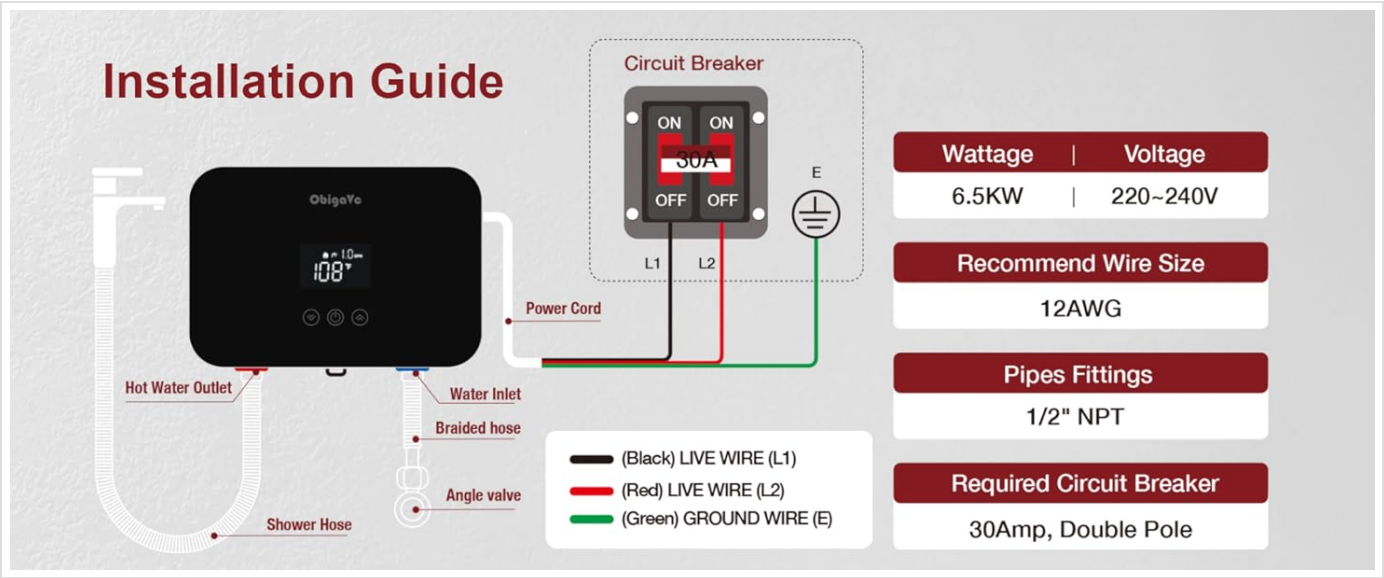


Image: A guide for determining maximum flow rate based on geographical inlet water temperature and compatible fixtures.

OPERATING INSTRUCTIONS

1. Initial Startup

1. Ensure all plumbing connections are secure and leak-free.
2. Open a hot water faucet to allow water to flow through the heater and purge all air from the system. This is crucial to prevent damage to the heating element.
3. Once water flows steadily from the faucet, close the faucet.
4. Turn on the electrical power at the circuit breaker.
5. The unit's LED display will illuminate.

2. User Interface and Temperature Adjustment

The unit features an LED digital display and intuitive touch controls.

- **LED Display:** Shows real-time water temperature and flow rate.
- **Power Button:** Press to turn the unit on or off.
- **Up/Down Arrows:** Use to adjust the desired water temperature (range: 85°F - 131°F).
- **Temperature Auto-Recall:** The unit remembers your last temperature setting.



Image: Illustration of the instant hot water delivery capability and temperature stability of the unit.

3. Energy-Saving Smart Adjustment

The ECO065 utilizes frequency conversion thermostat technology to optimize energy consumption. It dynamically adjusts power output based on the real-time water flow and your set temperature. This reduces energy waste by lowering output during periods of reduced demand, eliminating the need for preheating and minimizing standby heat loss.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your water heater.

- **Annual Inspection:** It is recommended to have a qualified technician inspect the unit annually.
- **Cleaning:** Periodically wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Scaling Prevention:** The cast aluminum heating core is designed to minimize scaling and mineral buildup. In areas with hard water, consider installing a water softener to further reduce mineral accumulation and maintain efficiency.
- **Winterization (if applicable):** If the unit is installed in an area prone to freezing and will not be used for an extended period, drain the water from the unit and pipes to prevent freeze damage. Turn off the power supply before draining.



Image: An internal view highlighting the cast aluminum heating core and the separation of water and electrical components, contributing to safety and longevity.

TROUBLESHOOTING

Before contacting customer support, review the following common issues and solutions:

- **No Hot Water:**
 - Check if the power supply is on at the circuit breaker.
 - Ensure the unit is turned on via the power button.
 - Verify water flow. The unit requires a minimum flow rate to activate heating.
 - Check for error codes on the LED display (refer to specific error code meanings if available in future documentation).
- **Insufficient Hot Water Temperature:**
 - Increase the set temperature using the up arrow button.
 - Reduce the water flow rate at the faucet. Higher flow rates may result in lower outlet temperatures, especially with very cold inlet water.
 - Ensure the unit's wattage (6.5KW) is sufficient for your specific application and inlet water temperature. Refer to the flow rate map in the installation section.
- **Water Leakage:**
 - Immediately turn off the water supply and electrical power to the unit.
 - Inspect all plumbing connections for tightness.
 - If leakage persists, contact a qualified plumber or customer support.
- **Unit Not Turning On:**
 - Check the circuit breaker.
 - Ensure the power button on the unit is pressed.

For issues not covered here, or if troubleshooting steps do not resolve the problem, please contact ObigaVc customer support.

WARRANTY AND SUPPORT

ObigaVc is committed to providing reliable products. For warranty information, please refer to the warranty card included

with your purchase or visit the official ObigaVc website. Keep your proof of purchase for warranty claims.

For technical assistance, parts, or service, please contact ObigaVc customer support. Contact details can typically be found on the product packaging or the official brand website.

PRODUCT APPLICATIONS

The ObigaVc ECO065 Tankless Water Heater is suitable for various applications requiring on-demand hot water, including:

- Under-sink installations for kitchens and bathrooms.
- Small showers.
- Pet washing stations.
- Laundry rooms.
- RV and mobile applications (ensure proper electrical and plumbing setup).

01 Find your location on the map, note the color block and the average inlet water temperature.

37°F

42°F

47°F

52°F

57°F

62°F

67°F

72°F

77°F

02 Determine the maximum flow rate (GPM) supported by your local inlet water temperature when targeting an outlet temperature of 105°F.

Model	Inlet Temp. 37°F	Inlet Temp. 42°F	Inlet Temp. 47°F	Inlet Temp. 52°F	Inlet Temp. 57°F	Inlet Temp. 62°F	Inlet Temp. 67°F	Inlet Temp. 72°F	Inlet Temp. 77°F
ECO065 6.5kW*	0.65GPM	0.7GPM	0.78GPM	0.83GPM	0.92GPM	1.02GPM	1.17GPM	1.32GPM	1.6GPM
RE8K 8kW	0.8GPM	0.88GPM	0.94GPM	1.03GPM	1.14GPM	1.27GPM	1.44GPM	1.67GPM	1.97GPM

Results based on outlet temperature of 105°F

03 Identify compatible fixtures (e.g., sinks, shower) based on the maximum flow rate to determine the most suitable water heater model for your needs.

0.5GPM

0.9-1.4GPM

1.2-1.5GPM

1.5-2GPM

1-2GPM

1-1.5GPM

Faucet

Sink

Water-saving Shower

Standard Shower

Dishwasher

Laundry

Image: Examples of common applications for the tankless water heater, such as kitchen use, bathroom sinks, and pet washing.