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› [BLACK+DECKER](#) /

› BLACK+DECKER Tankless Electric Water Heater 36kW 240 Volt 7.3GPM Instruction Manual

BLACK+DECKER BD-36-DWH

BLACK+DECKER Tankless Electric Water Heater 36kW 240 Volt 7.3GPM Instruction Manual

Model: BD-36-DWH

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your BLACK+DECKER 36kW Tankless Electric Water Heater. Please read all instructions carefully before installation and use. Retain this manual for future reference.



Image: Front view of the BLACK+DECKER 36kW Tankless Electric Water Heater.

Product Overview Video

Your browser does not support the video tag.

Video: An overview of the BLACK+DECKER Multi-Application Tankless Water Heater, highlighting its features and benefits.

2. PRODUCT FEATURES

- **Hot Water on Demand:** Powerful 36kW heating system provides continuous hot water with automatic water flow sensors.
- **Self-Modulating Technology:** Allows setting and maintaining desired temperature in 1°F increments.
- **Digital Temperature Display:** Easy-to-use and read digital interface for precise temperature control.
- **Multi-Use Application:** Suitable for both commercial and residential use, ideal for whole-house hot water in warm to hot climates.
- **Space-Saving Design:** Compact, wall-mounting unit eliminates the need for a bulky hot water tank.
- **Energy Efficiency:** Designed to save up to 50% on water heating costs by eliminating standby heat loss and cycling loss.
- **Durable Construction:** Features stainless steel, non-corrosive internal canisters and piping for increased life expectancy. Lead-free components.

Energy Saving Benefits Video

Your browser does not support the video tag.

Video: Explains how tankless water heaters, like this BLACK+DECKER model, save energy and money compared to traditional tank heaters.

3. SAFETY INFORMATION

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

- Disconnect power before servicing the unit.
- Ensure proper grounding to prevent electrical shock.
- Do not operate if the unit is damaged or leaking.
- Maintain proper clearances around the unit as specified in the full installation guide.

4. INSTALLATION REQUIREMENTS

Proper installation is critical for the safe and efficient operation of your tankless water heater. This unit requires specific electrical and plumbing setups.

Electrical Requirements:

- Requires 4 x 40 amp single-phase double-pole breakers.
- Requires 4 x 8/2 AWG wire size.
- Operates on 240V.

Plumbing Requirements:

- Standard 3/4 in. NPT (straight thread) fittings.

- Unit does not require gas lines or venting.

Mounting:

- Wall-mounting design allows installation in various locations such as cabinets, closets, garages, or basements.

BLACK+DECKER

36 KW IDEAL FOR 4 BEDROOM HOME

UP TO 8 SIMULTANEOUS APPLICATIONS

14.77" Height

4.53" Depth

23.23" Width

Lead Free

Efficient Self Modulating

cETL Certified

Temp Range 86-122 F

99% Energy Efficient

Stainless Steel Durable Non-Corrosive

36

240

150A

Serves

Designed to serve the needs of your whole house.

Required Breaker Size

4 x 40A Double Pole

Required Breaker Gauge

4 x 8/2 AWG with Ground

Weight

16.23 lbs.

⚡

Before purchasing, please review the electrical requirements, and be sure your electrical panel has sufficient space for this unit.

Image: Technical guide illustrating the dimensions and key electrical requirements for the 36kW unit.

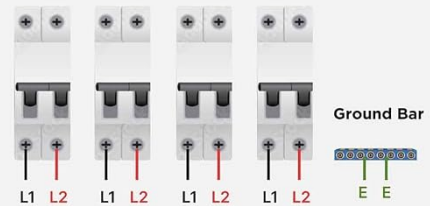
36 KW SPECIFICATION GUIDE



Hot Water
Outlet

Cold Water
Inlet

Circuit Breaker Panel 40A DP/240V



Each Breaker Must Be Grounded

Circuit Requirements

Wattage

36,000

Voltage

240V

Cable Gauge Required

4 x 8/2 AWG
with Ground

Water Connection Size

3/4 in.

Required Breaker Size

4 x 40A
Double Pole

Image: Detailed specification guide for the 36kW model, including circuit breaker panel setup and water inlet/outlet connections.

5. OPERATING INSTRUCTIONS

Your BLACK+DECKER tankless water heater is designed for simple operation with its digital controls.

Setting Temperature:

- Use the digital temperature display and controls to set your desired hot water temperature.
- The unit will automatically modulate its power to maintain the set temperature, providing consistent hot water.

ENDLESS HOT WATER ON DEMAND

Compact design allows you to install
where you need it most.

Install in a garage,
utility room, or even
in a closet!



tankless electric
water heaters



Image: Illustration of a tankless electric water heater providing endless hot water on demand to various points in a home.

MULTIPLE APPLICATION

For Commercial & Residential Use



Kitchen Sink

Shower

Bathroom Sink

Image: Demonstrates the multiple applications of the tankless water heater for commercial or residential use, including kitchen and bathroom fixtures.

6. PERFORMANCE DATA

The flow rate (GPM) of hot water your unit can provide depends on the inlet water temperature. Refer to the performance guide below to understand expected flow rates based on your geographical location and season.

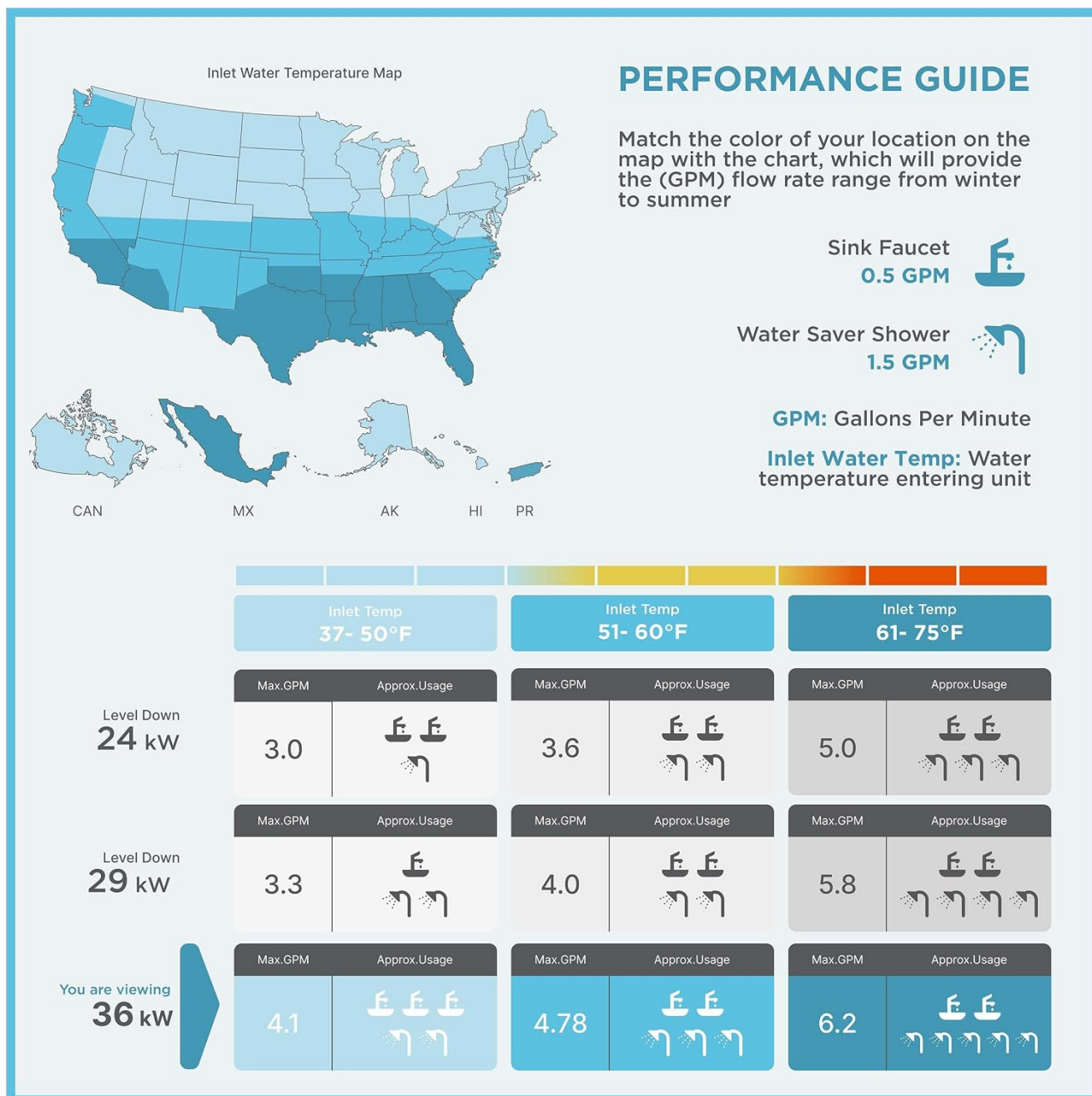


Image: Performance guide detailing flow rates (GPM) for different inlet water temperatures, specifically for the 36kW model.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your tankless water heater. Due to its stainless steel internal assembly, the unit is designed for minimal maintenance.

- Periodically inspect the unit for any visible leaks or damage.
- Ensure the area around the heater is clear of obstructions.
- For hard water areas, consider professional descaling every 1-2 years to prevent mineral buildup, which can affect efficiency.

8. TROUBLESHOOTING

If you encounter issues with your water heater, refer to the following common troubleshooting tips. For complex problems, contact customer support.

Common Issues:

- **No Hot Water:** Check power supply, circuit breakers, and ensure water flow is sufficient to activate the heater.
- **Inconsistent Temperature:** Verify the set temperature on the digital display. Ensure adequate water pressure and flow rate.
- **Low Flow Rate:** Check for kinks in water lines or mineral buildup in aerators/showerheads.
- **Error Codes:** Consult the full user manual for specific error code definitions and solutions.

9. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	BLACK+DECKER
Model Number	BD-36-DWH
Wattage	36 KW
Voltage	240 Volts
Maximum Flow Rate	7.3 Gallons Per Minute
Heat Output	36000 Watts
Mounting Type	Wall
Product Dimensions	4"W x 40"H
Item Weight	23.3 pounds
UPC	852580008705

10. WARRANTY AND CUSTOMER SUPPORT

BLACK+DECKER stands behind the quality of its tankless water heaters.

Limited Warranty:

- **7-Year Leakage-Free Coverage:** Covers the internal components against leaks.
- **5-Year Heat Exchanger Warranty:** Covers the heat exchanger component.
- **2-Year Parts Warranty:** Covers other parts of the unit.



**SUPERIOR
LIMITED
WARRANTY**



7

YEARS

LEAKAGE FREE

2

YEARS

PARTS ONLY

Have questions regarding your shipment, installation or usage?

Contact our customer service team 24/7



Image: Warranty details for the BLACK+DECKER tankless water heater.

Customer Support:

For questions regarding your shipment, installation, usage, or to speak with an expert, please contact us:

- **Phone:** 1-844-746-6688
- **Email:** info@bdwaterheaters.com

Backed by over 50 years of experience and excellence, BLACK+DECKER provides reliable solutions.