

## Balboa Water Group BP100

# Balboa Water Group G6422 Control System User Manual

Model: BP100G2 with 4.0kW Heater and TP260T Panel

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Balboa Water Group G6422 Control System. This system, featuring the BP100G2 control unit, an integrated 4.0kW heater, and a TP260T control panel, is designed for efficient and reliable spa management. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## 2. IMPORTANT SAFETY INSTRUCTIONS

**WARNING: Risk of Electric Shock. All electrical work must be performed by a qualified electrician and comply with all local and national electrical codes. Disconnect power before servicing.**

- Always ensure the main power supply to the spa is disconnected before attempting any installation, maintenance, or repair.
- Do not operate the spa if any component of the control system is damaged or not functioning correctly.
- Keep all electrical connections dry and protected from moisture.
- Ensure proper grounding of all electrical components.
- This control system is designed for specific spa applications. Do not modify or use for unintended purposes.

## 3. SYSTEM COMPONENTS

The Balboa Water Group G6422 Control System includes the following primary components:

- **BP100G2 Control Unit:** The central processing unit for managing spa functions, including heating, pumps, and lighting. It features an integrated 4.0kW heater.
- **TP260T Control Panel:** A user interface panel for adjusting settings and controlling spa features.
- **Associated Wiring and Sensors:** Necessary cables for power, panel connection, and temperature sensing.



Figure 3.1: Balboa BP100G2 Spa Control System with integrated 4.0kW heater. This unit serves as the core of your spa's operational functions.



Figure 3.2: Complete Balboa BP100G2 Control System package, including the main unit, TP260T control panel, and necessary wiring for installation.



Figure 3.3: Close-up view of the Balboa TP260T Spa Control Panel, showing the buttons and display for user interaction.

## 4. INSTALLATION AND SETUP

Installation of the Balboa G6422 Control System requires careful attention to electrical connections and plumbing. It is highly recommended that installation be performed by a certified spa technician or a qualified electrician.

### 4.1 Pre-Installation Checks

- Verify that the spa's electrical supply matches the system's requirements (115V or 230V, 4-wire).
- Ensure adequate space for mounting the control unit and access for future servicing.
- Confirm all plumbing connections are clean and free of debris.

### 4.2 Mounting the Control Unit

The BP100G2 control unit can be mounted using its integrated feet or optional metal brackets (P/N #32068, sold separately). Ensure the unit is mounted in a location that is protected from direct weather exposure and allows for proper ventilation.

### 4.3 Electrical Connections

Refer to the wiring diagram provided with your unit for specific connection details. The system supports both 115V and 230V configurations. Proper grounding is essential for safety.



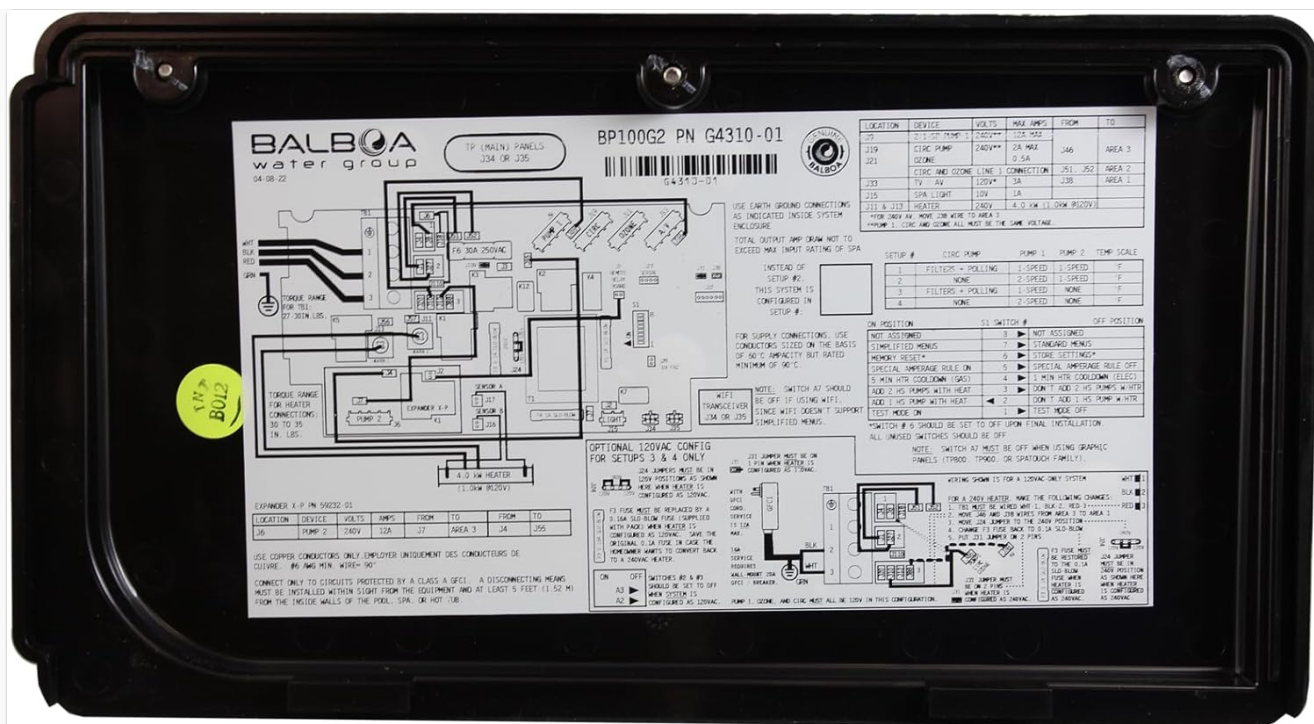


Figure 4.1: Detailed wiring diagram for the Balboa BP100G2 control system (G4310-01). This diagram illustrates all electrical connections for pumps, heater, and other spa components. For more detailed information, please visit [Balboa Water Group's official BP100 Aftermarket page](#).

The internal components are shown below for reference during wiring and inspection:



Figure 4.2: Internal view of the Balboa BP100G2 control unit, showing the circuit board, relays, and wiring terminals. This view is for reference during professional installation and troubleshooting.

#### 4.4 Connecting the TP260T Panel

Connect the TP260T control panel cable to the designated port on the BP100G2 control unit. Ensure the connection is secure and watertight.

### 5. OPERATING INSTRUCTIONS (TP260T PANEL)

The TP260T panel provides intuitive control over your spa's functions. Familiarize yourself with the button layout:

- **TEMP (Temperature):** Press to display the current water temperature. Use the up/down arrows (if present, or

repeated presses) to adjust the set temperature.

- **JETS:** Activates or cycles through jet pump speeds/modes.
- **LIGHT:** Turns the spa lights on/off or cycles through light modes.
- **AUX (Auxiliary):** Controls an auxiliary function, such as a blower or additional pump, if installed.
- **HEAT Indicator:** Illuminates when the heater is active.

For detailed programming and advanced settings, refer to the specific TP260T panel user guide, which may be available from Balboa Water Group's website.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Balboa G6422 Control System.

- **Keep Connections Dry:** Periodically inspect all wiring connections for signs of moisture or corrosion.
- **Clean Control Panel:** Wipe the TP260T panel with a soft, damp cloth. Avoid abrasive cleaners.
- **Ventilation:** Ensure the control unit area has adequate ventilation to prevent overheating.
- **Professional Inspection:** It is recommended to have a qualified technician inspect your spa control system annually.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter. For complex problems, contact a qualified spa technician.

Problem	Possible Cause	Solution
System not powering on	No power supply, tripped breaker, loose connection.	Check main power, reset breaker, inspect connections (with power off).
Heater not working	Low water flow, air lock, faulty sensor, heater element failure.	Ensure adequate water level and flow, bleed air from system, contact technician.
Control panel unresponsive	Loose panel cable, water damage, internal fault.	Check panel cable connection, ensure panel is dry. If problem persists, contact technician.
Jets not activating	Pump not receiving power, air lock in pump, pump failure.	Check pump connections, ensure water flow, contact technician.

## 8. SPECIFICATIONS

Feature	Detail
Model Name	BP100G2
Heater Type	Integrated 4.0kW (Fixed - Bottom 1.0kW, 4.0kW)
Control Panel	TP260T
Supply Voltage	115V, 230V - 4 Wire

Feature	Detail
Frequency	50Hz, 60Hz
Circulation Pump Ready	Optional 115V, Optional 230V
Number of Appliances	2
Material	Acrylic, Plastic, Vinyl
Product Dimensions	22 x 8.75 x 18.25 inches
UPC	761408225005

## 9. WARRANTY INFORMATION

Specific warranty details for the Balboa Water Group G6422 Control System are typically provided at the point of purchase or can be obtained directly from Balboa Water Group. Please retain your proof of purchase for warranty claims. Generally, Balboa Water Group products come with a limited warranty covering manufacturing defects. For full terms and conditions, please refer to the official Balboa Water Group warranty statement or contact their customer service.


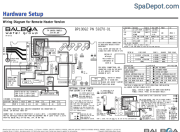
## 10. CUSTOMER SUPPORT




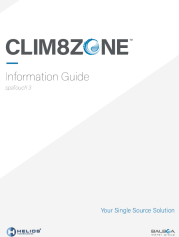
For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Balboa Water Group customer support or your authorized dealer.

- **Manufacturer:** Balboa Water Group
- **Website:** [www.balboawater.com](http://www.balboawater.com)
- **Product Specific Page:** [BP100 Aftermarket Information](#)

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### Related Documents - BP100

	<p><a href="#">Balboa BP100G2 Tech Sheet and Configuration Guide</a></p> <p>Comprehensive technical specifications, wiring diagrams, and configuration options for the Balboa BP100G2 spa control system, including details for part numbers 59267 and 59268. This document provides essential information for installation, setup, and troubleshooting.</p>
	<p><a href="#">Balboa BP100G2 Wiring Diagram and Software Setup Guide</a></p> <p>Comprehensive guide to the Balboa BP100G2 control system, including hardware setup, wiring diagrams for remote heater versions, and instructions for changing software configurations on spaTouch, TP800, TP900, TP600, TP500, and TP400 panels.</p>

	<p><a href="#">Balboa BP Troubleshooting &amp; Service Manual</a></p> <p>Balboa Water Group's BP Troubleshooting &amp; Service Manual provides essential technical information for qualified technicians servicing BP spa control systems (BP500, BP2000G1) and TP series panels. This guide details installation, electrical safety, GFCI procedures, wiring diagrams, and comprehensive troubleshooting steps for spa equipment.</p>
	<p><a href="#">Balboa BP100UX Tech Sheet: Specifications, Wiring, and Configuration</a></p> <p>Comprehensive technical sheet for the Balboa BP100UX spa control system, detailing part numbers, power requirements, system outputs, wiring diagrams, DIP switch functions, jumper definitions, replacement parts, and panel configurations for various Balboa control panels.</p>
	<p><a href="#">Balboa TP240 / TP260 Spa Control Panel User Guide</a></p> <p>This user guide provides detailed instructions and information for operating and maintaining the Balboa TP240 and TP260 spa control panels, covering features, settings, troubleshooting, and panel messages.</p>
	<p><a href="#">CLIM8ZONE™ spaTouch 3 Information Guide - Balboa Water Group</a></p> <p>Comprehensive information guide for the CLIM8ZONE™ spa control system with spaTouch 3 interface, detailing temperature modes, speed modes, eHeater modes, and operation.</p>