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Balboa Water Group G4361

Balboa Water Group BP7 4.0kW Spa Control System

Model: G4361 with Plug-n-Click Technology

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Balboa Water Group BP7 4.0kW Spa Control System, Model G4361. Please read all instructions carefully before proceeding with installation or operation. Retain this manual for future reference.



Image: The Balboa Water Group BP7 4.0kW Spa Control System, showing its compact design and plumbing connections.

IMPORTANT SAFETY INFORMATION

WARNING: Electrical installation must be performed by a qualified electrician in accordance with all national and local electrical codes. Failure to do so may result in serious injury, death, or property damage.

- Always disconnect power to the spa control system before performing any service or maintenance.
- Connect only to a circuit protected by a Class A Ground Fault Circuit Interrupter (GFCI).
- Refer to your spa's rating label for specific electrical requirements and safety guidelines.
- This device complies with part 15 of the FCC rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

SETUP AND INSTALLATION

The Balboa BP7 control system is designed for straightforward installation. Ensure all components are present and undamaged before beginning.

1. Unpacking and Inspection

Carefully remove the control system from its packaging. Inspect for any visible damage. Do not install if the unit appears damaged.

2. Electrical Requirements

The BP7 system operates at **240V, 60Hz, 48A**. Ensure your electrical supply meets these specifications. The system includes a 4.0kW heater. Proper grounding is essential.

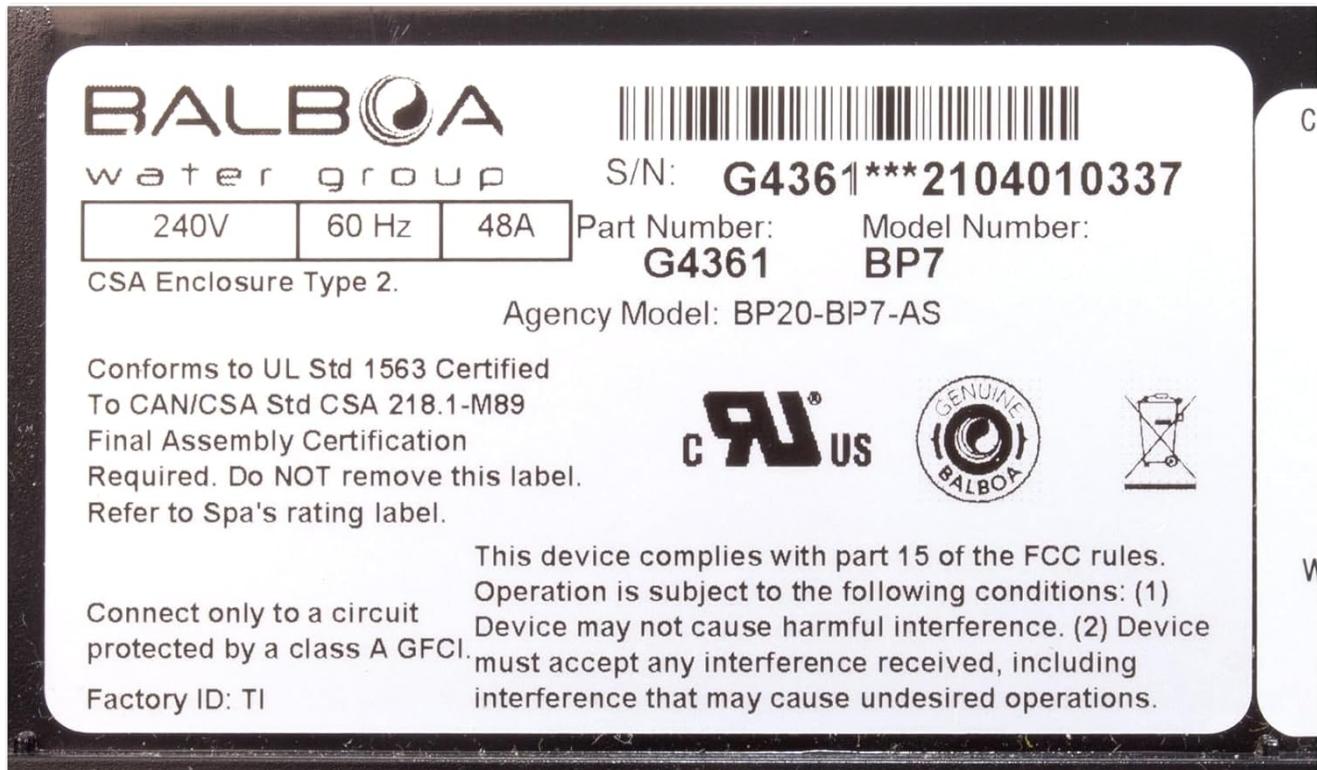


Image: Product label detailing electrical specifications (240V, 60Hz, 48A), part number G4361, and model number BP7.

3. Plumbing Connections

The BP7 system utilizes standard plumbing connections. Use the provided unions and gaskets to ensure a watertight seal. Do not overtighten.



Image: Two black plumbing unions with white gaskets, used for connecting the control system to spa plumbing.

4. Wiring the Control System

The BP7 system features a 'Plug-n-Click' design for simplified connections. However, careful attention to wiring is crucial. The internal wiring connects various components such as pumps, blowers, and the heater. Ensure all connections are secure and match the wiring diagram provided.

- **Topside Control Connection:** Note that there are two types of plug ends for topside controls, and they are not interchangeable. Verify compatibility before connecting.
- **Internal Wiring:** When moving wires inside the unit, ensure they are properly seated and secured to prevent damage or malfunction.



Image: Internal view of the Balboa BP7 control system, showing the circuit board, heater element, and various wiring connections.

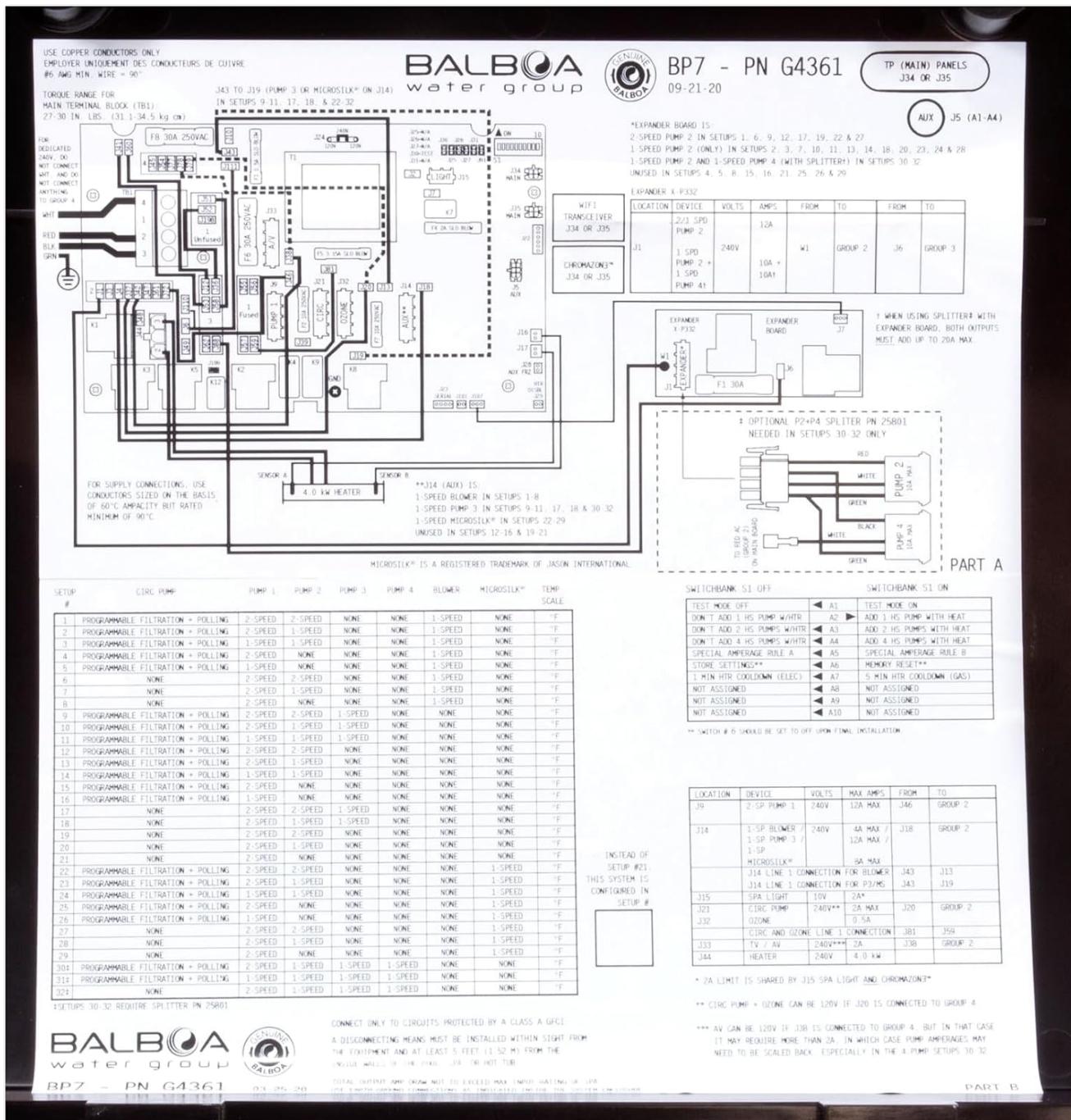


Image: Detailed wiring diagram for the Balboa BP7 G4361 control system, illustrating connections for pumps, heater, and other components.

OPERATING INSTRUCTIONS

Once installed and powered, the BP7 control system manages your spa's functions. Operation is primarily controlled via the topside control panel (sold separately or integrated with your spa).

Key Functions:

- **Temperature Control:** Set and maintain desired water temperature.
- **Pump Operation:** Control primary and secondary pumps for jets and circulation.
- **Blower Control:** Activate air blowers for therapeutic bubbles.
- **Lighting:** Manage spa lighting features.
- **Filtration Cycles:** Program automatic filtration cycles to keep water clean. The wiring diagram indicates various programmable filtration and heating modes.

Refer to your specific topside control panel's manual for detailed instructions on navigating menus and adjusting settings.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your BP7 control system.

- **Visual Inspection:** Periodically inspect the control box for any signs of water leaks, corrosion, or loose connections.
- **Electrical Connections:** Ensure all electrical connections remain tight and free from corrosion.
- **Heater Element:** The heater element is integrated. If issues arise, consult a qualified technician.
- **Refer to Spa Manual:** Always follow the maintenance schedule and guidelines provided in your spa's owner's manual, as it may contain specific instructions related to the control system's environment.

TROUBLESHOOTING

This section addresses common issues you might encounter with your BP7 control system.

Problem	Possible Cause	Solution
System not powering on	No power supply, tripped GFCI, loose wiring	Check circuit breaker and GFCI. Verify all power connections are secure. Consult wiring diagram.
Heater not working	Low water flow, air lock, heater element failure	Ensure adequate water level and circulation. Bleed air from plumbing. If problem persists, contact support.
Jets not activating	Pump not running, air lock, clogged filter	Check pump operation via topside control. Clear air from pump. Clean or replace filters.
Topside control not responding	Loose connection, incompatible topside control	Ensure topside control cable is securely connected. Verify topside control compatibility with BP7 system.
Intermittent operation / Interference	External electrical interference	Ensure proper grounding. Relocate any nearby electronic devices that may be causing interference.

For complex issues or if troubleshooting steps do not resolve the problem, contact a qualified spa technician or Balboa Water Group support.

SPECIFICATIONS

- **Model Number:** G4361
- **System Type:** BP7 Control System
- **Heater Power:** 4.0kW
- **Electrical Input:** 240V, 60Hz, 48A
- **Product Dimensions:** Approximately 2.7 x 2.7 x 0.5 inches (Control Box only, excluding plumbing unions)
- **Item Weight:** Approximately 1 pound
- **Manufacturer:** Balboa Water Group
- **Compliance:** Conforms to UL Std 1563 Certified, To CAN/CSA Std 218.1-M89, FCC Part 15

WARRANTY AND SUPPORT

For warranty information and technical support, please contact Balboa Water Group directly or refer to their official website.

- **Manufacturer:** Balboa Water Group
- **Official Product Page:** <http://www.balboawater.com/BP7>
- **Serial Number Format:** For product identification and support, your unit's serial number will follow a format similar to G4361***XXXXXXXX (e.g., G4361***2104010337).



Image: Front view of the Balboa BP Spa Control System, featuring the 'Genuine Balboa' logo and a QR code for additional information.