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Balboa Water Group 30337KIT

Balboa Water Group 30337KIT Dual Sensor Instruction Manual

Model: 30337KIT

Introduction

This manual provides essential instructions for the installation, operation, and maintenance of the Balboa Water Group 30337KIT Dual Sensor. This sensor assembly is designed for use in hot tub and spa control systems to accurately monitor water temperature and detect high-limit conditions.

The 30337KIT includes two distinct sensors: a 96-inch temperature sensor with a 3/8-inch diameter probe and a 31-inch high limit sensor with a 1/4-inch diameter probe, both connected via a 4-pin connector.

Product Overview



Image: Balboa Water Group 30337KIT Dual Sensor. This image displays the two sensor probes, one longer (temperature) and one shorter (high limit), connected by gray cables to a white 4-pin connector. The cables are secured with a white zip tie.

The Balboa Water Group 30337KIT is a critical component for maintaining safe and optimal operating conditions in your spa or hot tub. It combines two sensors into a single unit for streamlined installation and reliable performance.

- **Temperature Sensor:** Measures the current water temperature. It features a 96-inch cable and a 3/8-inch diameter probe.
- **High Limit Sensor:** Acts as a safety device, detecting dangerously high water temperatures to prevent overheating. It features a 31-inch cable and a 1/4-inch diameter probe.
- **Connector:** A 4-pin connector ensures proper electrical connection to the spa's control system.

Safety Information

Always disconnect power to the spa or hot tub before attempting any installation, maintenance, or repair. Failure to do so can result in serious injury or death. If you are unsure about any step, consult a qualified technician.

- Ensure all connections are secure and dry before restoring power.
- Do not modify the sensor cables or probes.
- Keep the sensor probes clean and free from debris.

Setup and Installation

Proper installation is crucial for accurate readings and safe operation. Refer to your spa's specific control system manual for exact sensor port locations and wiring diagrams.

1. **Power Disconnection:** Turn off all power to the spa at the main breaker. Verify power is off using a voltage tester.
2. **Locate Sensor Ports:** Identify the designated temperature and high limit sensor ports on your spa's heater assembly or control pack. These are typically located in the heater manifold.
3. **Remove Old Sensors (if applicable):** Carefully unscrew or unclip the old sensors. Note their orientation and connection points.
4. **Install New Sensors:**
    - Insert the 96-inch temperature sensor (3/8" diameter) into its designated port.
    - Insert the 31-inch high limit sensor (1/4" diameter) into its designated port.
    - Ensure both sensors are fully seated and secured according to your spa's heater assembly design. Some systems may use O-rings or gaskets; ensure these are properly installed and sealed.
5. **Connect Wiring:** Plug the 4-pin connector of the new sensor assembly into the corresponding receptacle on the spa's control board. Ensure the connector is firmly seated.
6. **Cable Management:** Route the sensor cables away from moving parts or heat sources, securing them with cable ties if necessary.
7. **Restore Power:** Once all connections are secure and verified, restore power to the spa.

Operating Instructions

The Balboa Water Group 30337KIT Dual Sensor operates automatically in conjunction with your spa's control system. No direct user interaction with the sensors themselves is required during normal operation.

- The temperature sensor continuously monitors the water temperature, providing data to the control system for heater activation and display.
- The high limit sensor monitors for excessive temperatures. If the water temperature exceeds a preset safety threshold, the high limit sensor will trigger a safety shutdown of the heater and potentially other spa functions to prevent damage and ensure user safety.
- Refer to your spa's main control panel manual for instructions on setting desired water temperatures and understanding error codes related to sensor readings.

Maintenance

Regular maintenance helps ensure the longevity and accuracy of your sensors.

- **Visual Inspection:** Periodically inspect the sensor probes and cables for any signs of damage, corrosion, or wear. Ensure the cables are not pinched or exposed to excessive heat.
- **Cleaning:** If the probes are accessible, gently clean any mineral deposits or debris that may accumulate on them. Use a soft cloth and mild, non-abrasive cleaner suitable for spa components. Ensure the spa is powered off during cleaning.

- **Water Chemistry:** Maintain proper spa water chemistry. Imbalanced water can lead to scale buildup on sensors, affecting their accuracy and lifespan.

Troubleshooting

If your spa displays an error code related to temperature or high limit sensors, consider the following troubleshooting steps. Always consult your spa's control system manual for specific error code interpretations.

Problem	Possible Cause	Solution
Spa displays "Sn" or "Sensor Error"	Loose or corroded sensor connection; faulty sensor.	1. Disconnect power. 2. Check the 4-pin connector for secure fit and corrosion. Clean if necessary. 3. Inspect sensor cables for damage. 4. If error persists, the sensor may need replacement.
Spa displays "HL" or "High Limit Error"	Actual overheating; low water flow; faulty high limit sensor.	1. Disconnect power. 2. Check water level and ensure filters are clean. 3. Verify pump operation and water flow through the heater. 4. Allow spa to cool down. 5. If error persists after cooling and checking flow, the high limit sensor or control board may be faulty.
Inaccurate temperature readings	Scale buildup on sensor; faulty temperature sensor.	1. Disconnect power. 2. Clean the temperature sensor probe. 3. Check water chemistry. 4. If readings remain inaccurate, the temperature sensor may need replacement.

For persistent issues, it is recommended to contact a certified spa technician.

Specifications

- **Model Number:** 30337KIT
- **Manufacturer:** Balboa Water Group
- **Temperature Sensor Cable Length:** 96 inches
- **Temperature Sensor Probe Diameter:** 3/8 inches
- **High Limit Sensor Cable Length:** 31 inches
- **High Limit Sensor Probe Diameter:** 1/4 inches
- **Connector Type:** 4-pin
- **Material:** ABS (connector/housing)
- **Color:** White (connector)
- **Approximate Item Weight:** 1 pound
- **Product Dimensions (Package):** 6 x 4 x 6 inches

Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your spa's control system or contact Balboa Water Group directly through their official website. Keep your purchase receipt for warranty claims.

Balboa Water Group Official Website: www.balboawatergroup.com

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