**Spa Quick Start Guide**

**Balboa VS 501SZ System for VL600 Topside Control**

For use with Four Winds Spas Cyclone Series: Non-Wifi, Two Pump Spas.

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**Start-up**

Your spa will enter Priming Mode (PR) after initial start-up sequence. During Priming Mode, press “Jets” button(s) repeatedly and be sure all pumps are free of air. Priming Mode lasts for less than 5 minutes. Press “Warm” or “Cool” to exit. After Priming Mode, the spa will run in its preset mode (see Mode section).

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**Temp Control (80°F-104°F / 26.0°C-40.0°C)**

The last measured water temperature is constantly displayed. **The water temperature displayed is current only when the pump has been running for at least 2 minutes.**

To display the set temperature, press “Warm” or “Cool” once. To change the set temperature, press a temperature button again before the display stops flashing. After three seconds, the display will stop flashing and begin to display the current spa temperature.

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**Jets 1**

Press “Jets 1” to turn pump 1 on or off, and to shift between low and high speeds. High-speed will turn off after 15 minutes. Low-speed may run automatically at times, during which it cannot be deactivated from the panel, but high-speed may be operated.

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**Jets 2**

Press the corresponding button once to turn the device on or off. The device will turn off after 15 minutes. Pump 2 operates on High Speed only.

The low speed pump will be a responsible for heating and filtration. In multi-button sequences, if the buttons are pressed too quickly in sequence, they may not register or they may change the mode or filter settings.

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**Light**

Press “Light” to operate the spa light. Turns off after 4 hours.

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**Mode**

Mode is changed by pressing “Warm” or “Cool,” then pressing “Mode.”

- **Standard Mode** maintains set temperature. **SLDL** will be displayed momentarily when you switch into Standard Mode.
- **Economy Mode** heats the spa to the set temperature only during filter cycles. **£££££** will display when water temp is not current, and will alternate with water temp when the pump is running.
- **Sleep Mode** heats the spa to within 20°F/10°C of the set temperature only during filter cycles. **$LLP** will display when water temp is not current, and will alternate with water temp when the pump is running.

**Preset Filter Cycles**

The first preset filter cycle begins 6 minutes after the spa is energized. The second preset filter cycle begins 12 hours later. Filter duration is programmable for 2, 4, 6, or 8 hours or for continuous filtration (indicated by F ££). The default filter time is 2 hours. It is important to set filter cycles on a pattern. We recommend programming cycles at 7 am & 7 pm and avoiding the hours from 10am-5pm.

To program, press “Warm” or “Cool,” then “Jets 1.” Press “Warm” or “Cool” to adjust. Press “Jets 1” to exit programming.

Low-speed pump 1 and the ozone generator (if installed) run during filtration. At the beginning of each filter cycle all other equipment will run briefly to purge the plumbing.

**Automatic polling (in Standard Mode only)**

The pump will activate for 1 to 2 minutes to check the temperature:
- every 30 minutes
- whenever any other pump or blower is turned on
- whenever the set temperature is raised.

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This document covers VS and GS systems 500SZ through 528SZ with Panels VL600S, VL700S, VL701S, or VL702S.

## Diagnostic Messages

<table>
<thead>
<tr>
<th>Message</th>
<th>Meaning</th>
<th>Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>No message on display. Power has been cut off to the spa.</td>
<td>The control panel will be disabled until power returns. Spa settings will be preserved until next power up.</td>
<td></td>
</tr>
<tr>
<td><strong>--</strong></td>
<td>Temperature unknown.</td>
<td>After the pump has been running for 2 minutes, the current water temperature will be displayed.</td>
</tr>
<tr>
<td><strong>OHH</strong></td>
<td>“Overheat” - The spa has shut down.* One of the sensors has detected 118°F/47.8°C at the heater.</td>
<td>DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. Once the heater has cooled, reset by pushing any button. If spa does not reset, shut off the power to the spa and call your dealer or service organization.</td>
</tr>
<tr>
<td><strong>OHS</strong></td>
<td>“Overheat” - The spa has shut down.* One of the sensors has detected that the spa water is 110°F/43.5°C.</td>
<td>DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 107°F/41.7°C, the spa should automatically reset. If spa does not reset, shut off the power to the spa and call your dealer or service organization.</td>
</tr>
<tr>
<td><strong>SnA</strong></td>
<td>Spa is shut down.* The sensor that is plugged into the Sensor “A” jack is not working.</td>
<td>If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat condition.)</td>
</tr>
<tr>
<td><strong>SnB</strong></td>
<td>Spa is shut down.* The sensor that is plugged into the Sensor “B” jack is not working.</td>
<td>If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat condition.)</td>
</tr>
<tr>
<td><strong>SnS</strong></td>
<td>Sensors are out of balance. If alternating with spa temperature, it may just be a temporary condition. If flashing by itself, spa is shut down.*</td>
<td>If the problem persists, contact your dealer or service organization.</td>
</tr>
<tr>
<td><strong>HFL</strong></td>
<td>A significant difference between temperature sensors has been detected. This could indicate a flow problem.</td>
<td>If the water level is normal, make sure all pumps have been primed. If problem persists, contact your dealer or service organization.</td>
</tr>
<tr>
<td><strong>LF</strong></td>
<td>Persistent low flow problems. (Displays on the fifth occurrence of message within 24 hours.) Heater is shut down, but other spa functions continue to run normally.</td>
<td>Follow action required for message. Heating capability of the spa will not reset automatically; you may press any button to reset.</td>
</tr>
<tr>
<td><strong>dE</strong></td>
<td>Possible inadequate water, poor flow, or air bubbles in detected in the heater. Spa is shut down for 15 minutes.</td>
<td>If water level is normal, make sure all pumps have been primed. Press any button to reset. This message will reset within 15 minutes. If problem persists, contact your dealer or service organization.</td>
</tr>
<tr>
<td><strong>dy</strong></td>
<td>Inadequate water detected in heater. (Displays on third occurrence of <strong>dE</strong> message.) Spa is shut down.*</td>
<td>Follow action required for message. Spa will not automatically reset. Press any button to reset manually.</td>
</tr>
<tr>
<td><strong>ICE</strong></td>
<td>“Ice” - Potential freeze condition detected.</td>
<td>No action required. All equipment will automatically activate regardless of spa status. The equipment stays on 4 minutes after the sensors detect that the spa temperature has risen to 45°F/7.2°C or higher. An optional freeze sensor may be added to protect against extraordinary freeze conditions. Auxiliary freeze sensor protection is advisable in colder climates. See your dealer for details.</td>
</tr>
<tr>
<td>*-Even when spa is shut down, some equipment will turn on if freeze protection is needed.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Warning! Shock Hazard! No User Serviceable Parts.**

Do not attempt service of this control system. Contact your dealer or service organization for assistance. Follow all owner’s manual power connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed.

![Balboa Water Group Logo]