Balboa Water Group

Part Number: 56125  4kW 800 Incoloy Element
           56126  With 4kW Titanium Element

Compatible Plumbing Kits (Coupling nuts and seals included)
55911  2” Tailpieces (2-Speed Pump 1)
55914  1.5” Tailpieces (2-Speed Pump 1)
55912  1” Tailpiece Inserts (Circ)
55913  One Direct Circ Pump Coupling and one 1” Tailpiece Insert

UL System Model:  BP15-BP1500-BJ
Software ID:   M100_200 V4
Software Version:  4.0
Hex File:   BP1500_4.0_BP15G8SU.hex
Configuration Signature: A111A271

Eng. Project:  3479

Base PCBs / PCBA’s:
Power Board:  22117_B / 56128
Logic Board:  22121_E / 56127

Control Panels:
TP 600  55673-04
Software Version  2.0 and later

Auxiliary Panels
AX10A2  55919

User Interface and Programming Guide:
http://service.balboa-instruments.com/zz40940_download.zip
# System Revision History

<table>
<thead>
<tr>
<th>Part #</th>
<th>EPN</th>
<th>Date</th>
<th>Originator</th>
<th>Changes Made</th>
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<tr>
<td>55697 and</td>
<td>2277</td>
<td>05-19-09</td>
<td>Balboa</td>
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</tr>
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<td>55700</td>
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<td>800 Incoloy and Titanium models</td>
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<td>Initial release</td>
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<td>06-09-09</td>
<td>Balboa</td>
<td>Minor corrections and clarification. Add J23 / J32 connection for Misc.</td>
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<td>08-01-09</td>
<td>BWG</td>
<td>Minor corrections, hardware revs and firmware update</td>
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<td>08-14-09</td>
<td>BWG</td>
<td>Tech Sheet update</td>
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<td>3297</td>
<td>3333</td>
<td>12-01-09</td>
<td>BWG</td>
<td>Software update and configuration update (remove GFCI Test Feature)</td>
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<td>02-09-10</td>
<td>BWG</td>
<td>Wiring Diagram Update to Rev B Power Board and Rev C Logic Board</td>
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<td>02-17-10</td>
<td>BWG</td>
<td>Software update to Version 3.0</td>
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<td>3333</td>
<td>03-12-10</td>
<td>BWG</td>
<td>P1 Low Timeout Update. Add Setup Change Reference</td>
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<td></td>
<td>3479</td>
<td>10-11-10</td>
<td>BWG</td>
<td>RMA Tester and eFAST compatibility added, Transformer Update</td>
</tr>
</tbody>
</table>

---

Manufactured under one or more of these patents: U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6255227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.
Plumbing Fittings

2” Tailpiece kit PN 55911.
Standard 2” sockets to glue up to 2” PVC pipe.

1.5” Tailpiece kit PN 55914.
1.5” sockets to glue up to 1.5” PVC pipe with the I.D.
Be sure to orient the fittings so that the insert is at the 12:00 position to prevent trapped air.

1” Circ Pump Insert kit PN 55912.
1” barb fittings for use with 1” tubing.
Be sure to orient the fittings so that the insert is at the 12:00 position to prevent trapped air.

1” Circ Pump Insert kit PN 55913.
One fitting for direct coupling to the threaded suction of an appropriately-sized circ pump. A 1” barb fitting for use with 1” tubing is used on the other end of the heater.
Be sure to orient the fittings so that the insert is at the 12:00 position to prevent trapped air.
Setup 1 – As Manufactured

Power Requirements:
240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)

System Outputs:
Pump 1 240VAC 2-Speed 12A max 120-minute timer for Low Speed, 15 Minutes for High Speed
This is the heater pump and must be the same voltage as the Ozone
Must deliver a minimum of 20 GPM through heater
Pump 2 240VAC 1-Speed 12A max 15-minute timer
Ozone 240VAC .5A max Uses the same relay as Pump 1 Low
Must be the same voltage as heater pump
Spa Light 12VAC On/Off 1A max 4-Hour timer.
Heater 4kW @ 240VAC
Misc. J23 & J32 120VAC 4A max Hot output (Stereo). Fused equipment or in-line fuse required.

Wiring Diagram and Settings

Refer to Page 3 to choose a suitable Plumbing Kit.
Setup 2

Power Requirements:
240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)

System Outputs:
- Pump 1 240VAC 1-Speed 12A max 15-minute timer
- Pump 2 240VAC 1-Speed 12A max 15-minute timer
- Circ Pump 240VAC 1-Speed 5A max Programmable Filtration Cycles + Polling
  This is the heater pump and must be the same voltage as the Ozone
  Must deliver a minimum of 20 GPM through heater
- Ozone 240VAC .5A max Uses the same relay as the Circ Pump
  Must be the same voltage as heater pump
- Spa Light 12VAC On/Off 1A max 4-Hour timer.
- Heater 4kW @ 240VAC
- Misc. J23 & J32 120VAC 4A max Hot output (Stereo). Fused equipment or in-line fuse required.

Wiring Diagram and Settings

Software Configuration Changes based on Default
Feature Orig. Setup 1 Changes to
J8 ................................. 2-Speed Pump 1 ...... 1-Speed Pump 1
J21 ................................. Not Used (non-circ) ....... Circ Pump Enabled

Refer to Page 3 to choose a suitable Plumbing Kit.
Blue indicates changes from the original Setup 1 default

Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7,417,834 b2,
Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.
**Setup 3**

**Power Requirements:**
240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)

**System Outputs:**
- **Pump 1**
  - 240VAC, 2-Speed, 12A max
  - 120-minute timer for Low Speed, 15 Minutes for High Speed
  - This is the heater pump and must be the same voltage as the Ozone
  - Must deliver a minimum of 20 GPM through heater
- **Blower**
  - 240VAC, 1-Speed, 8A max
  - 15-minute timer
- **Ozone**
  - 240VAC, 0.5A max
  - Uses the same relay as Pump 1 Low
  - Must be the same voltage as heater pump
- **Spa Light**
  - 12VAC, On/Off, 1A max
  - 4-Hour timer.
- **Heater**
  - 4kW @ 240VAC
- **Misc.**
  - J23 & J32, 120VAC, 4A max
  - Hot output (Stereo). Fused equipment or in-line fuse required.

**Wiring Diagram and Settings**

<table>
<thead>
<tr>
<th>Switch #</th>
<th>Original Setup 1</th>
<th>Changes to</th>
</tr>
</thead>
<tbody>
<tr>
<td>J14, TP600 Button 2, LED 2, AX10A2</td>
<td>Pump 2</td>
<td>Blower</td>
</tr>
</tbody>
</table>

Refer to Page 3 to choose a suitable Plumbing Kit.

*Blue indicates changes from the original Setup 1 default*
**Setup 4**

**Power Requirements:**
240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)

**System Outputs:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Voltage</th>
<th>Speed</th>
<th>Amps</th>
<th>Timer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump 1</td>
<td>240VAC</td>
<td>1-Speed</td>
<td>12A max</td>
<td>15-minute timer</td>
</tr>
<tr>
<td>Blower</td>
<td>240VAC</td>
<td>1-Speed</td>
<td>8A max</td>
<td>15-minute timer</td>
</tr>
<tr>
<td>Circ Pump</td>
<td>240VAC</td>
<td>1-Speed</td>
<td>5A max</td>
<td>Programmable Filtration Cycles + Polling</td>
</tr>
<tr>
<td>Ozone</td>
<td>240VAC</td>
<td></td>
<td>.5A max</td>
<td>Uses the same relay as the Circ Pump</td>
</tr>
<tr>
<td>Spa Light</td>
<td>12VAC</td>
<td>On/Off</td>
<td>1A max</td>
<td>4-Hour timer.</td>
</tr>
<tr>
<td>Heater</td>
<td>4kW @ 240VAC</td>
<td></td>
<td></td>
<td>Hot output (Stereo). Fused equipment or in-line fuse required.</td>
</tr>
<tr>
<td>Misc.</td>
<td>J23 &amp; J32 120VAC</td>
<td>4A max</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**System Outputs Continued:**

- **Circ Pump**
  - 240VAC
  - 1-Speed
  - 5A max
  - Programmable Filtration Cycles + Polling
  - Must deliver a minimum of 20 GPM through heater

- **Ozone**
  - 240VAC
  - .5A max
  - Uses the same relay as the Circ Pump
  - Must be the same voltage as heater pump

**Wiring Diagram and Settings**

Refer to Page 3 to choose a suitable Plumbing Kit.

*Blue indicates changes from the original Setup 1 default*

Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.
**Power Requirements:**

240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)

4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)

**System Outputs:**

- **Pump 1**
  - 240VAC
  - 2-Speed
  - 12A max
  - 120-minute timer for Low Speed, 15 Minutes for High Speed
  - This is the heater pump and must be the same voltage as the Ozone
  - Must deliver a minimum of 20 GPM through heater

- **Ozone**
  - 240VAC
  - .5A max
  - Uses the same relay as Pump 1 Low
  - Must be the same voltage as heater pump

- **Spa Light**
  - 12VAC
  - On/Off
  - 1A max
  - 4-Hour timer.

- **Heater**
  - 4kW @ 240VAC

- **Misc.**
  - J23 & J32
  - 120VAC
  - 4A max
  - Hot output (Stereo). Fused equipment or in-line fuse required.

**Wiring Diagram and Settings**

Refer to Page 3 to choose a suitable Plumbing Kit.

*Blue indicates changes from the original Setup 1 default*

Manufactured under one or more of these patents: U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7,417,834 b2,
Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.

Template 40941_3 04-02-10 56125/56126_97_A 10-21-10
Setup 6

Power Requirements:
240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)

System Outpus:

<table>
<thead>
<tr>
<th>Pump 1</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>240VAC</td>
<td>1-Speed</td>
</tr>
<tr>
<td>12A max</td>
<td>15-minute timer</td>
</tr>
<tr>
<td>Circ Pump</td>
<td>240VAC</td>
</tr>
<tr>
<td>1-Speed</td>
<td>5A max</td>
</tr>
<tr>
<td>Programmable Filtration Cycles + Polling</td>
<td></td>
</tr>
<tr>
<td>Ozone</td>
<td>240VAC</td>
</tr>
<tr>
<td>.5A max</td>
<td>Uses the same relay as the Circ Pump</td>
</tr>
<tr>
<td>Spa Light</td>
<td>12VAC</td>
</tr>
<tr>
<td>On/off</td>
<td>1A max</td>
</tr>
<tr>
<td>4-Hour timer.</td>
<td></td>
</tr>
<tr>
<td>Heater</td>
<td>4kW @ 240VAC</td>
</tr>
<tr>
<td>Misc.</td>
<td>J23 &amp; J32</td>
</tr>
<tr>
<td>120VAC</td>
<td>4A max</td>
</tr>
<tr>
<td>Hot output (Stereo). Fused equipment or in-line fuse required.</td>
<td></td>
</tr>
</tbody>
</table>

Wiring Diagram and Settings

Software Configuration Changes based on Default

<table>
<thead>
<tr>
<th>Feature</th>
<th>Orig. Setup 1</th>
<th>Changes to</th>
</tr>
</thead>
<tbody>
<tr>
<td>J8</td>
<td>2-Speed Pump 1</td>
<td>1-Speed Pump 1</td>
</tr>
<tr>
<td>J14, TP600 Button 2, LED 2, AX10A2</td>
<td>Pump 2</td>
<td>Not Used</td>
</tr>
<tr>
<td>J21</td>
<td>Not Used (non-circ)</td>
<td>Circ Pump Enabled</td>
</tr>
</tbody>
</table>

Refer to Page 3 to choose a suitable Plumbing Kit.

Blue indicates changes from the original Setup 1 default.
Setup 7

Power Requirements:
120/240VAC, 60Hz, 16/40A, Class A GFCI-protected service (Circuit Breaker = 20/50A max.),
3 or 4 wires [hot, hot (optional), neutral, ground]. Do not use this setup with a 3 kW heater.

System Outputs:
Pump 1 120VAC 2-Speed 12A max 120-minute timer for Low Speed, 15 Minutes for High Speed
This is the heater pump and must be the same voltage as the Ozone
Must deliver a minimum of 20 GPM through heater
Ozone 120VAC .5A max Uses the same relay as Pump 1 Low
Must be the same voltage as heater pump
Spa Light 12VAC On/Off 1A max 4-Hour timer.
Heater 1kW @ 120VAC or 4kW @ 240VAC

Wiring Diagram and Settings

Software Configuration Changes based on Default Feature
Orig. Setup 1 Changes to
J14, TP600 Button 2, LED 2, AX10A2 . . . . Pump 2 . . . . . . . . . . . . . . . . . . Not Used

120v to 240v heater conversion instructions:
1, Conversion must be performed by a qualified, licensed electrician.
2, Disconnect from power and remove power cord.
3, Completely remove jumper wire between J29 and J33 and discard.
4, Install 240V power conductors; Line 1, Line 2 and Neutral to main terminal block (TB1)

Refer to Page 3 to choose a suitable Plumbing Kit.

Blue indicates changes from the original Setup 1 default
**Setup 8**

**Power Requirements:**
120/240VAC, 60Hz, 16/40A, Class A GFCI-protected service (Circuit Breaker = 20/50A max.), 3 or 4 wires [hot, hot (optional), neutral, ground]. **Do not use this setup with a 3 kW heater.**

**System Outputs:**
- **Pump 1**
  - 120VAC
  - 1-Speed
  - 12A max
  - 15-minute timer
- **Circ Pump**
  - 120VAC
  - 1-Speed
  - 1.5A max
  - Programmable Filtration Cycles + Polling
  - This is the heater pump and must be the same voltage as the Ozone
  - Must deliver a minimum of 20 GPM through heater
- **Ozone**
  - 120VAC
  - .5A max
  - Uses the same relay as the Circ Pump
  - Must be the same voltage as heater pump
- **Spa Light**
  - 12VAC
  - On/Off
  - 1A max
  - 4-Hour timer.
- **Heater**
  - 1kW @ 120VAC or 4kW @ 240VAC
- **Misc.**
  - J23 & J32
  - Not Applicable with 120V Heater.

**Wiring Diagram and Settings**

![Wiring Diagram]

**Software Configuration Changes based on Default Feature**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Orig. Setup 1</th>
<th>Changes to</th>
</tr>
</thead>
<tbody>
<tr>
<td>J8</td>
<td>2-Speed Pump 1</td>
<td>1-Speed Pump 1</td>
</tr>
<tr>
<td>J14, TP600 Button 2, LED 2, AX10A2</td>
<td>Pump 2</td>
<td>Not Used</td>
</tr>
<tr>
<td>J21</td>
<td>Not Used (non-circ)</td>
<td>Circ Pump Enabled</td>
</tr>
</tbody>
</table>

**120v to 240v heater conversion instructions:**
See previous page.

Refer to Page 3 to choose a suitable Plumbing Kit.

*Blue indicates changes from the original Setup 1 default*

---

Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.
Setup Changes with DIP Switch 1 ON

Read and understand these instructions before beginning this process.

Know the Setup Number you want before you power up the spa and wait to power up the spa until you’re ready to change the Setup Number.

The system must be in Test Mode, so move Switch 1 to the ON position. The Test Menu will then be available.

Power up the spa, and press any button once to Link the panel. (Note: Switch 1 can be moved to the ON position immediately after power-up, if preferred - Danger! High Voltage will be present!)

**You will have 1 minute** to complete the setup change after you manually exit Priming Mode. (Once familiar with the process, the Setup change should take less than 15 seconds.)

As soon as Switch #1 is placed in the ON position,

- The temperature will show “T” after it instead of F or C,
- indicating the System is in Test Mode

![Diagram of DIP Switches]

**DANGER! HIGH VOLTAGE WILL BE ACCESSIBLE!**  
**SERVICE TECHNICIAN ONLY!**

Move DIP Switch 1 (on S1 on the Logic circuit board) to ON.

The system will enter Test Mode.

Moving DIP Switch 1 to OFF will exit Test Mode.

---

When the panel displays RUN PMPS PURG AIR, press any Temperature button ONCE to exit Priming Mode.

You should see “---T” where the T indicates the system is in Test Mode.

---

Continued on Next Page.
Setup Changes – Continued

Again, **You will have 1 minute** to complete the setup change after you manually exit Priming Mode.

Immediately after exiting Priming Mode, press this sequence of buttons: Warm*, Light, Warm, Warm, Warm, Warm. Continue to press Warm until the display shows the Setup Number (S-01, S-02, etc.) you want to switch to. When the correct setup number is showing, press Light once, and the system will reset, using the newly-selected Setup from that point on.

Move DIP Switch 1 to the OFF position to take the spa out of Test Mode. °F or °C will replace °T.

Using a permanent marker, write the Setup number on the Setup label mounted inside the system lid (right). This is very important to any service person in the future who may need to replace a circuit board or system and needs to change the Setup on a replacement part while in the field.

NOTE: Changing the Setup may require wiring changes as well - refer to the wiring diagram or wiring diagram addendum.

*If the Control Panel does not have a Warm (Up) button, but rather a single Temp button, use the Temp button in place of the Warm button in the instruction above. (The flow chart assumes a single Temperature Button.)

**Key**
- Indicates Flashing or Changing Segment
- Indicates Alternating or Progressive Message - every 1/2 second
- A temperature button, used for "Action"
- Light or dedicated "Choose" button, depending on control panel configuration

**Main Screen**

- **TEST**
- **SETP**
- **S-01**
- **S-02**
- **A/B**
- **FALT LOG**
- **A HR TIME OUTS**
- **SPA O/H**

**Display Fault Log**

- Displays Fault Log

**NOTE:** The System will reset and go into Priming Mode if the Light Button is pressed while anything other than the current setup is flashing. If there is no change to the Setup Number (S-01, S-02, etc.), the display returns to the SETP screen.

**Several Setups can exist in this string**

- A dash (--) indicates the current Setup.

**Key**
- Indicates Flashing or Changing Segment
- Indicates Alternating or Progressive Message - every 1/2 second
- A temperature button, used for "Action"
- Light or dedicated "Choose" button, depending on control panel configuration

*Waiting time* varies depending on function

**THIS SYSTEM IS CONFIGURED AS SETUP #**

**Main Screen**

- **--- --- °T**

*Manufactured under one or more of these patents: U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.*
# Configuration Options

## General Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump 1 in Filter Cycle (Circ Only)</td>
<td>No</td>
</tr>
<tr>
<td>Pump 1 Low Timer</td>
<td>120 Minutes</td>
</tr>
<tr>
<td>General Pump Timer</td>
<td>15 Minutes</td>
</tr>
<tr>
<td>Blower Timer</td>
<td>15 Minutes</td>
</tr>
<tr>
<td>Mister Timer <em>(N/A)</em></td>
<td>15 Minutes</td>
</tr>
<tr>
<td>Light Timer</td>
<td>240 Minutes</td>
</tr>
<tr>
<td>Circ</td>
<td>Like P1 Low</td>
</tr>
</tbody>
</table>

## Cleanup Cycle

- **Cleanup as Preference setting**: Yes
- **Ozone**: Always
- **Ozone Suppression**: OFF

## Other Purges

- **Pump Purge**: 60 Seconds
- **Blower Purge**: 30 Seconds
- **Mister Purge *(N/A)***: 5 Seconds
# Configuration Options

## Temperature Features

### Feature | Default
---|---
Temperature Display | °F

All temperatures must be specified in °F. The system converts °F to °C dynamically. If Celsius is required for default settings, choose a desired °C value that (after rounding) corresponds to a Fahrenheit value.

<table>
<thead>
<tr>
<th>°C</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
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<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
</tr>
</thead>
<tbody>
<tr>
<td>°F</td>
<td>39</td>
<td>41</td>
<td>43</td>
<td>45</td>
<td>46</td>
<td>48</td>
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<td>63</td>
<td>64</td>
<td>66</td>
<td>68</td>
<td>70</td>
<td>72</td>
</tr>
</tbody>
</table>

| °C  | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| °F  | 73 | 75 | 77 | 79 | 81 | 82 | 84 | 86 | 88 | 90 | 91 | 93 | 95 | 97 | 99 | 100| 102| 104|

- Hi-Range Min. Set Temp | 80°F
- Hi-Range Max. Set Temp | 104°F
- Hi-Range Default Temp* | 100°F
- Lo-Range Min. Set Temp | 50°F
- Lo-Range Max. Set Temp | 99°F
- Lo-Range Default Temp* | 70°F
- Freeze Threshold | 44°F
- Temp Lock Type | Temp + Settings

## Time Features

### Feature | Default
---|---
Time Format* | 12 Hour

- Filter 1 Start Hour* | 8:00 PM (20:00)
- Filter 1 Duration* | 2 Hours
- Filter Cycle 2 Default* | OFF
- Filter 2 Start Hour* | 8:00 AM (08:00)
- Filter 2 Duration* | 15 Minutes
- Light Cycle | Disabled
- Light Cycle Default* | OFF
- Light Cycle Start Hour* | 9:00 PM (21:00)
- Light Cycle Duration* | 15 Minutes

*May be changed by end-user (if Enabled)

---

Blue Indicates New Custom Configuration Default (Setup 1)

Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7,030,343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.

Template 40941_3 04-02-10

15

56125/56126_97_A 10-21-10
### Configuration Options

#### Reminder Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reminders Shown*</td>
<td>Yes</td>
</tr>
<tr>
<td>Check pH</td>
<td>OFF</td>
</tr>
<tr>
<td>Check Sanitizer</td>
<td>OFF</td>
</tr>
<tr>
<td>Clean Filter</td>
<td>30 Days</td>
</tr>
<tr>
<td>Test GFCI</td>
<td>65 Days</td>
</tr>
<tr>
<td>Drain Water</td>
<td>100 Days</td>
</tr>
<tr>
<td>Change Cartridge</td>
<td>OFF</td>
</tr>
<tr>
<td>Clean Cover</td>
<td>OFF</td>
</tr>
<tr>
<td>Treat Wood</td>
<td>OFF</td>
</tr>
<tr>
<td>Change Filter</td>
<td>365 Days</td>
</tr>
</tbody>
</table>

#### Special Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special Amperage Rule 1</td>
<td>No Limitation</td>
</tr>
<tr>
<td>Special Amperage Rule 2</td>
<td>No Limitation</td>
</tr>
<tr>
<td>Drain Mode</td>
<td>Disabled</td>
</tr>
<tr>
<td>Demo Mode</td>
<td>Disabled</td>
</tr>
<tr>
<td>Automatic GFCI Test</td>
<td>Disabled</td>
</tr>
<tr>
<td>Ozone Slaved to Heater Pump</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Editable by end-user

---

*Blue Indicates New Custom Configuration Default (Setup 1)*

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**Configuration Options**

### Main Control Panel Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Button 1</td>
<td>Jets 1</td>
</tr>
<tr>
<td>Button 2</td>
<td>Jets 2</td>
</tr>
<tr>
<td>Button 3</td>
<td>Flip</td>
</tr>
<tr>
<td>Button 4</td>
<td>Up</td>
</tr>
<tr>
<td>Button 5</td>
<td>Light 1</td>
</tr>
<tr>
<td>Button 6</td>
<td>Down</td>
</tr>
</tbody>
</table>

| LED 1 | Jets 1 |
| LED 2 | Jets 2 |
| LED 3 | Light 1 |
| LED 4 | Heat ON |

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**TP600**

55673-04

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Download the User Interface and Programming Guide here:
http://service.balboa-instruments.com/zz40940_download.zip

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Configuration Options

Auxiliary Panel Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aux Button A1</td>
<td>Jets 1</td>
</tr>
<tr>
<td>Aux Button A2</td>
<td>Jets 2</td>
</tr>
<tr>
<td>Aux Button A3</td>
<td>Unused</td>
</tr>
<tr>
<td>Aux Button A4</td>
<td>Light</td>
</tr>
</tbody>
</table>

Aux Buttons can be set with the following functions:

- Unused
- Up
- Down
- Temp
- Jets 1 – Jets 8
- Blower 1 – Blower 2
- Mister 1 – Mister 3
- Light 1 – Light 4
- Fiber Optic
- Option 1 – Option 4
- EitherLight
- Flip
- Chooser

AX10 A1  No O/L  52803
AX10 A2  AUX O/L  55919
AX10 A3  No O/L  52805
AX10 A4  No O/L  52806

AX20 A1A2  No O/L  52800
AX20 A1A3  No O/L  52801
AX20 A1A4  No O/L  52802

AX40  No O/L  52799

Blue Indicates New Custom Configuration Default (Setup 1)