

Advanced Hot Tub Control Systems  
all at your fingertip.



## VSSeries

Your Single Source Solution

- 100% Energy Efficient
- 120/240V Convertible Power Supply
- European/AU Safety Approvals
- Custom Designed Plastic Enclosure
- Customizable Topside Panel Overlay
- Advanced M7® Smart Control Technology



**BALBOA**  
water group

## Next Generation of Entry Level Hot Tub Control Systems

The Value Series (VS) family of hot tub control system are designed using Balboa's patented M7 temperature and flow sensor technology and a new universal control platform. These features increase the reliability, ease of installation and serviceability of the control.

### Design for Easy Installation and Service

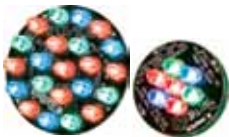
The VS family is based on a common universal control platform, which increases feature flexibility while reducing installation and configuration problems. The VS family has exceptionally good feature flexibility, so its performance is comparable with much higher end products. The units incorporate Balboa's patented M7 temperature probe technology, which eliminates the more failure prone pressure switches and simplifies the installation process by not having to drill additional holes in the spa.

### Flexible, High Reliability, Feature Rich

The systems have a plastic enclosure to eliminate water intrusion. Connectors are built onto the circuit board minimizing wires and simplifying service. The different models have controls for a single two-speed pump or an additional blower or pump. All models feature a convertible power supply that can be wired for 120 or 240 volts. They support a variety of panels and come with a 3.0, 4.0 or a 5.5kW 240V heater.

### Convenience Devices

The VS system has built in support for multiple auxiliary devices including additional:



1. LED Lights



2. Ozonators



3. Control Panels



4. Dolphin Remote (optional)



## All Balboa Systems are GREEN ENERGY EFFICIENT

Balboa Systems uses water immersion Technology which is 100% energy efficient. All energy are transferred into the water.



## Safer Topside Panel Operation - Piezo® Switches

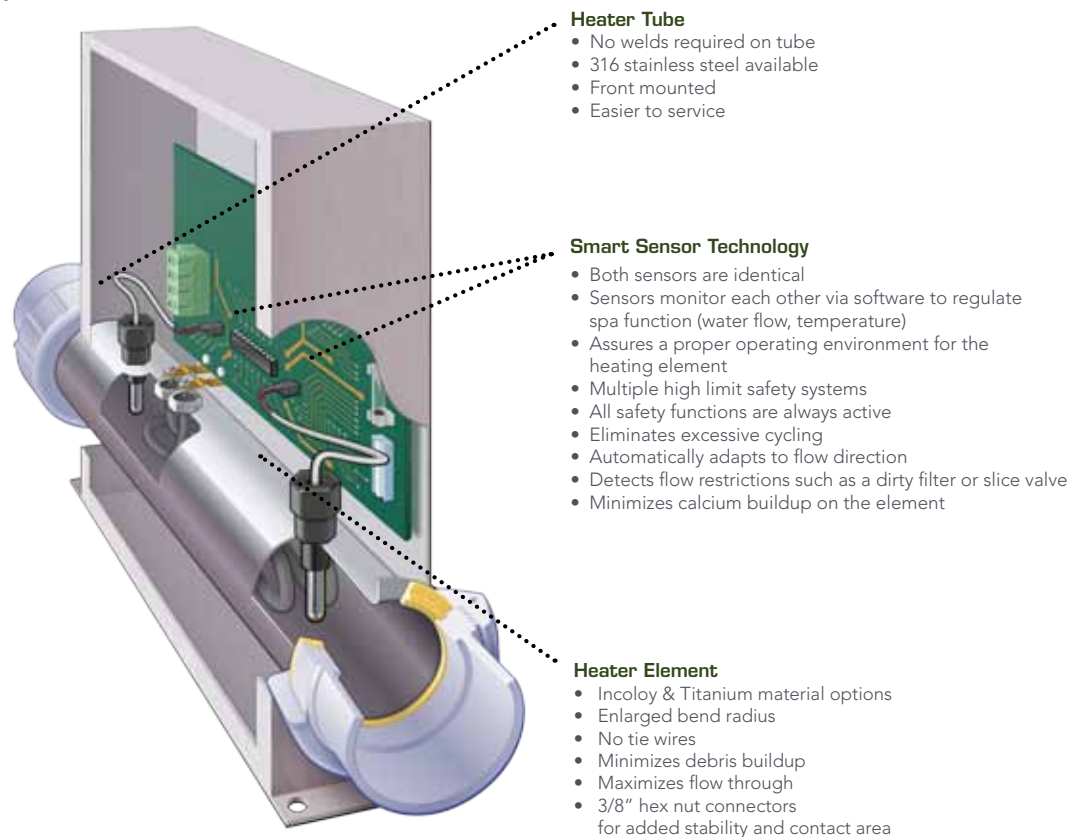
The VL Series of topside panels were designed to work with the VS (Value) Series of hot tub control systems. These panels use Balboa's patented Piezo moisture proof technology that operates without electrical current at the switch. That allows the panel to be installed facing the inside of the tub for ease-of-use by the tub owner. The Piezo is also four times larger than the average membrane switch, which makes it the perfect size for a fingertips.

Moisture can cause premature failure of a membrane switch no matter how small. Balboa's patented Piezo switch technology makes our panels more reliable due to its design with no moving parts, no contacts, no air gaps and no electrical current to cause problems. The panels support the advanced functions of the GS controls that use Balboa's patented M7® temperature and flow sensor technology and the universal control platform. The sleek panels have LCD graphical displays with moving function indicator icons, maintenance reminders and service alerts on the easy-to-read screen and can have customized overlay for building your own brand image.


## M7® Smart Sensor Technology Overview

### M7 Smart Sensor Technology

The VS system was built around Balboa's patented M7 temperature and flow sensor technology. Our M7 technology virtually eliminates problems of pressure switches. Advantages are that installation is simplified, as no holes have to be drilled into the spa. Routine maintenance and adjustments, down time, and service costs are greatly reduced overall.



## VS Series Specifications

Devices/Function Supported	VS500Z VS500SZ	VS501Z VS501SZ	VS510SZ	VS511Z VS511SZ
Circ Pump	24 Hr with 3°F above set temp shut off			
Pump 1-Max 12A	2 spd (Circ or Non-Circ) or 1 spd (Circ Only)			
Pump 2-Max 12A	NA	1 spd Pump 2 or Blower	1 Spd	2 Spd
Blower-Max 8A	NA	1 spd Pump 2 or Blower	1 Spd	NA
Ozone Support	Yes	Yes	Yes	Yes
Heater	3.0, 4.0, 5.5kW @ 240V			
Recommended Panels	Balboa Ozone (CE Certified)			
Panel Types	For VS5xxZ use any Duplex type Panels shown below For VS5xxSZ use any Standard type Panels shown below			
Voltage Supply	120/240 VAC @ 50/60 Hz			
Sensor	M7 Patented Temperature Probes			
Certifications				
IR Remote	Optional			
Spa Light Control/FiberEFX™	Yes			
Synchronized MoodEFX™	Yes			

### Common Specifications

Voltage	230 VAC 50Hz
Heater	1.0-3.0 Kw Stainless Steel
Certifications	Nemko, CE

### Measurements



### Compatible Panels

#### STANDARD PANELS



Panel VL700S  
Dim(cm) 24.94 x 7.98



Panel VL701S  
Dim(cm) 18.67 x 8.28



Panel VL402  
Dim(cm) 18.54 x 8.28



Panel MVP260  
Dim(cm) 17.78 x 5.46



Panel VL401  
Dim(cm) 16.05 x 5.72



Panel MVP240  
Dim(cm) 13.39 x 4.93



Panel Mini Series  
Dim(cm) 11.02 x 4.01

VS0612

©2012 Balboa Water Group. All rights reserved. Your Single Source Solution.  
1382 Bell Avenue | Tustin, CA 92780 | p 714.384.0382 | www.balboawatergroup.com  
Balboa reserve the right to change technical data without further notice.

**BALBOA**  
water group