

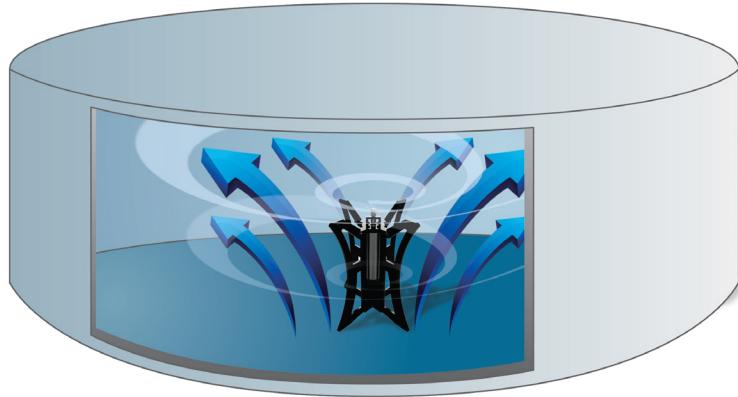


## CHLORAMINE BOOSTING SYSTEM

The Big Wave Water Technologies CHLORAMINE BOOSTING SYSTEM (CBS) is a flexible, precise, and dependable system for maintaining consistent free or total chlorine residual in water reservoirs. The CBS maintains uniform water quality throughout the entire reservoir by preventing stratification while accurately dosing sodium hypochlorite and/or ammonia with minimal operator involvement. The highly accurate chlorine residual analyzer and its ability to measure either Free or Total chlorine residuals, in conjunction with the operator interface, allows the CBS to control to the operator selected set point. From potable water reservoirs to standpipes, the CBS helps operators gain control of water quality in both the reservoir and distribution system.

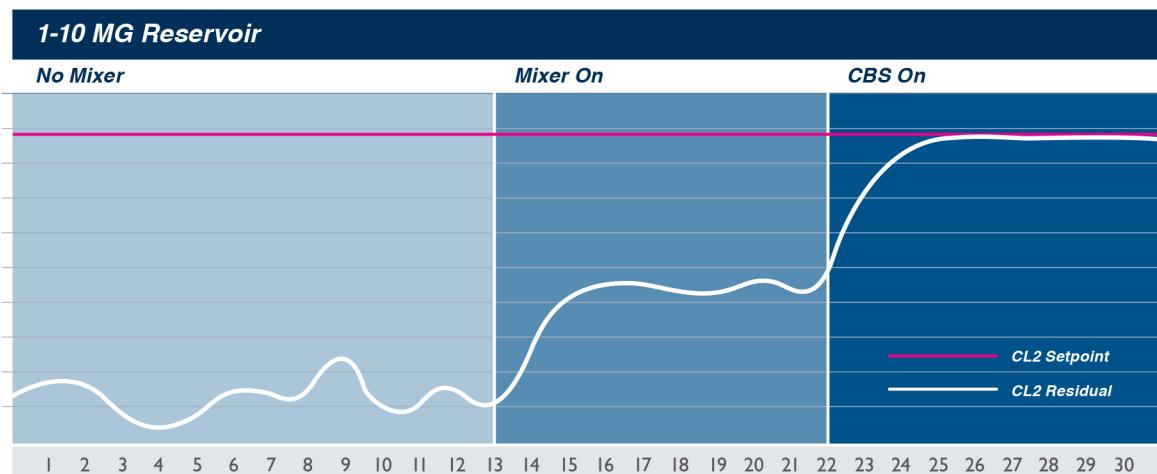
### Applications

- Reservoirs
- Standpipes
- Distribution Systems



### Key Benefits

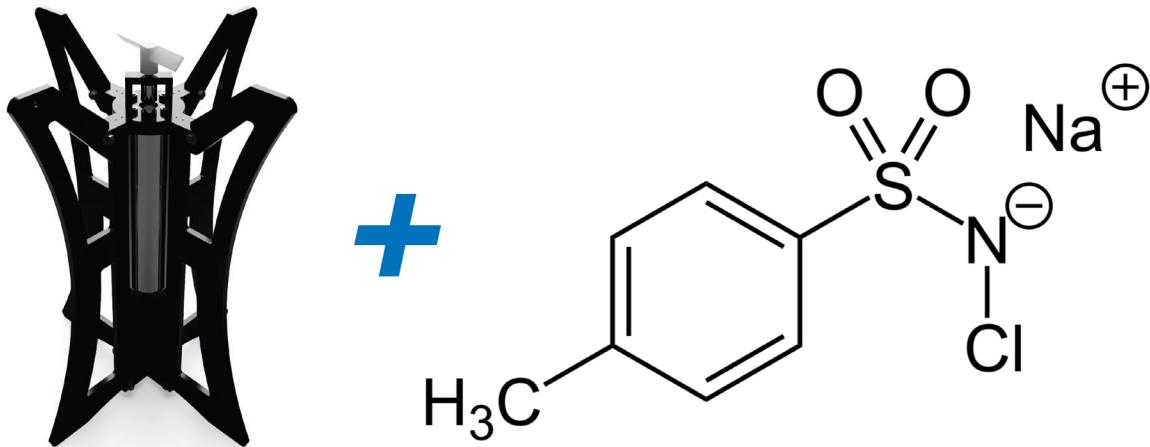
- Continuous measurement of water quality
- Decrease in maintenance hours
- Control reservoir remotely
- Reduce need for tank cleaning
- Reduce chemical inventory
- Low power consumption
- Solar options available
- Modular design
- Proven amperometric reagentless chlorine measurement
- Chemical dosing control to an operator selected point
- Maintain uniform water quality throughout the reservoir
- Various disinfection methods can be utilized
- Portable systems available
- Demo units available
- Results guaranteed



Uncirculated reservoirs tend to have low residuals throughout the reservoir, especially at the upper levels. When reservoirs are circulated, the residual tends to be higher and uniform throughout the entire reservoir. The Chloramine Boosting System allows the operator to set an ideal residual level throughout the entire reservoir.



**Big Wave Water Technologies** believes in a very simple and effective equation for success.



**POWERFUL MIXING + CHEMICAL ADDITION = CHLORAMINE BOOSTING SYSTEM**

1. Our active mixer meets or exceeds industry standards, out-performs the competition, and is economically priced.



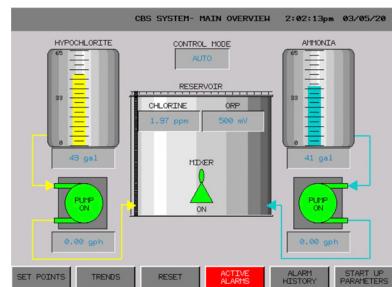
2. Our Chloramine Boosting System works with customer preferred or existing chlorine analyzer.

3. Our proprietary control panel is reliable, operator friendly, and easy to use.



1. 2.  
4. 3.

4. The control panel regulates the chemical addition.



For more information or to schedule a presentation, please call  
**667.244.9283 (667.BigWave)** or visit **BigWaveWater.com**



## Chemical Feed Skids

### Product Specifications

#### CHEMICAL FEED SKIDS



#### PRODUCT INFORMATION:

- Manufactured out of Marine Grade High Density Polyethylene
- Built-in spill containment
- Chemical flow verification by ultrasonic flow meter
- Pressure relief valve
- Pressure gauge, calibration column, pressure switch
- Socket welded joints to eliminate threaded connections
- Multiple unions for ease of maintenance
- Built-in leak detection
- Multiple pump options
- Built to your specification

#### CHEMICAL FEED SKID SPECIFICATIONS

Skid	High Density Polyethylene
Pump	Blue-White Flex-Pro M3 peristaltic pump
Piping	Schedule 80 PVC
Tubing	3/8" O.D PFA NSF 61 Certified
Ball Valves	True Union, PVC Body
Pressure Relief Valve	PVC Body, adjustable pressure range 10– 150 PSI
Calibration Cylinder	PVC body, end caps, 250 ml / GPH
Pressure Gauge	2 1/2" dial, liquid filled stainless steel gauge
Pressure Switch	0-100 PSI, N.O / N.C.
Check Valve	PVC body, cracking pressure 1.0—1.5 PSI
Secondary Containment	9 gallons secondary containment
Dimensions	24" W x 50" H x 20" D

For more information call 667-BIG-WAVE

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## Control Panel

### Product Specifications

#### CBS CONTROL PANEL



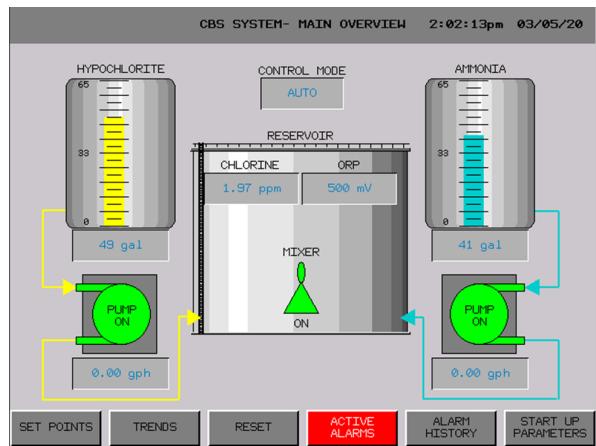
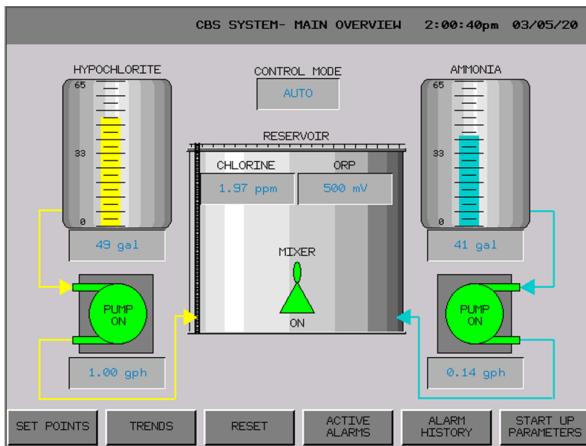
#### PRODUCT INFORMATION

The CBS Control Panel gives operators the ability to program residual level setpoints, chlorine to ammonia ratios, chemical feed rates, and alarms

- 24/7 water quality analysis
- Remote monitoring
- Touch screen enabled

#### CONTROL PANEL SPECIFICATIONS

Power Requirement	120VAC, 10 amp circuit breaker
Remote Connectivity	Yes
SCADA Connectivity	Yes
Safety Features	Emergency stop button on panel
Data Trending	Yes
Internal Memory Backup	Yes
Screen	10'' LCD Touchscreen
Enclosure	NEMA 4X FRP
Dimensions	24'' W x 30.5'' H x 14'' D



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## Chlorine Analyzer

### Product Specifications



#### DEPOLOX® 400 M ANALYZER

The DEPOLOX® 400 M system is an on-line analyzer designed to measure the disinfectant concentration in drinking and other clean water applications. The state of the art electronics incorporates a color touch screen the size of today's popular smart phones making the user interface truly intuitive. Communication with the instrument includes a standard Ethernet port which allows access to built-in web visualization of all pertinent information when connected to a local area network.

#### PRODUCT INFORMATION

- Intuitive operation as well as easy visualization of all measured parameters via a 4" color touch panel
- LED lit flow cell that can be programmed to change color in case of an alarm or fault condition
- Data logging of measurement values with easy transfer to remote devices
- Smart operation features: user configured intervals for calibration checks and also for the instrument's service intervals
- State of the art communication possibilities via an Ethernet interface (Modbus® TCP) as well as a RS 485 port

#### DEPOLOX 400M SPECIFICATIONS

<b>Measurement inputs</b>	Free chlorine or total chlorine, ORP
<b>Measuring ranges</b>	Free chlorine: 0 to 10 mg/l Total chlorine: 0.05 to 10 mg/l ORP: 0 to 1000 mV, scale freely selectable in 100 mV steps
<b>Analog outputs</b>	4 x 0/4 – 20 mA, Load $\leq$ 1000 Ohm, accuracy < 0.5 % FS
<b>Power supply</b>	100 – 240 V AC $\pm$ 10 %, 50/60 Hz, 48 VA 24 V DC $\pm$ 20 % 30 W
<b>Sample water</b>	Connection: PVC hose 6 x 3 mm or PE hose 6 x 1 mm hose connector adaptors to 1/2 " threaded hose connection
<b>Sample water requirements</b>	Controlled sample water flow: 33 l/h (0.15 US GPM / 9 GPH) Control range: 0.25 – 3.0 bar (3 – 60 psi at valve inlet) Back-pressure: max. 1.5 bar (21.7 psi) for press. model Sample water temperature: max. 50 °C (122 °F)
<b>Dimensions</b>	22.5" W x 14.7 H x 6.4" D
<b>Weight</b>	15 LBS

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## Analyzer Sample Recovery

### Product Specifications

#### VENTURI SAMPLE RETURN SYSTEM



We recommend using Amperometric total/free chlorine probes for these Chloramine Boosting Systems as this enables the sample flowing through the analyzer to be returned back into the potable water reservoir. Being able to return this sampled water back into the potable water reservoir saves approximately 250 gallons/day of water from being wasted to a drain at the site. The Sample Recovery system utilizes a sample pump, with a sample collector and Venturi that work in conjunction to not only provide sample flow to the water quality analyzer, but also to return this sample back to the reservoir. Having a sample recovery system installed with the Chloramine Boosting System will save an estimated 91,000 gallons of potable water from being wasted to a drain at the site

#### PRODUCT INFORMATION

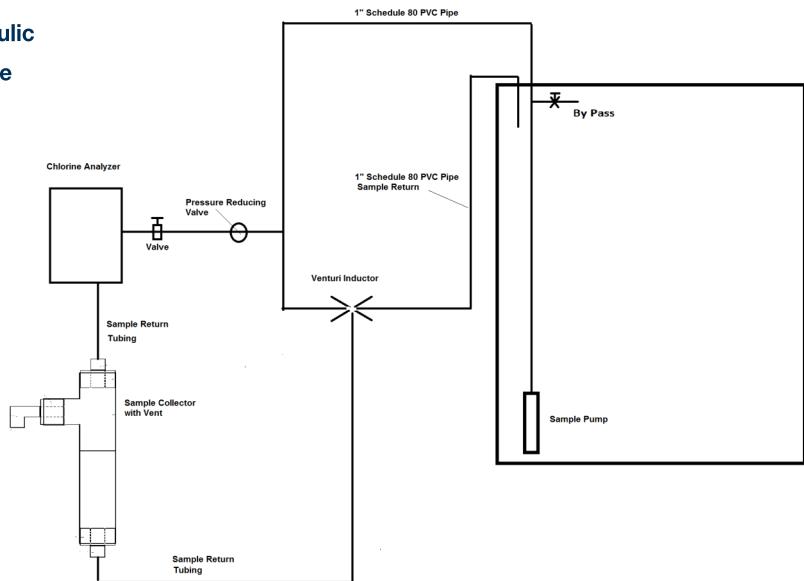
Sample pump selection will be influenced by the hydraulic profile of the tank (below grade tank to use submersible pump, above grade tank to use centrifugal pump).

**Below Grade:** Submersible Pump-STA Rite Pump

**Above Grade:** Centrifugal Pump-March Pump

- Sample pump to provide sample flow
- Sample Collector
- Venturi to return sample back to the reservoir
- Dimensions 28" w x 24" t with 3/4" PVC plumbing

#### VENTURI SYSTEM



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