

# Potable Water Brominator Model 6651-2C13.5LL

## Recirculating Bromination System

### General Description:

The Model 6651-2C13.5LL Brominating System was designed to recirculate and treat the water in either of two ship's potable water storage tanks.

The brominating system consists of a rugged, below-deck, bulkhead-mounted, brominator/pump assembly and a remote bulkhead-mounted control panel. The unique cartridge housing is manufactured from a high-strength plastic that will never corrode. The pump and corrosion resistant fittings used throughout are designed for reliable service and long life, and comply with NSF 61 and ABS standards.

Alignment for storage tank recirculation is achieved by solenoid valves activated by a switch on the remote control panel. The control panel includes the pump start/stop station, timer, tank selector switch, and a lamp indicating when the unit is brominating.

When treating water, a portion of the pumped flow is diverted through a cartridge containing bromine-impregnated resin. The bromine elutes into the water stream. This water stream is then re-introduced to the main flow, disinfecting the potable water with its biocidal action. A time totalizer keeps track of cartridge usage and lights a lamp when the cartridge should be changed.

### Specifications:

Designed, though not certified, to be compliant with MIL-S-901D high impact shock (grade B) and MIL-STD-167-1 (Environmental) vibration requirements. The pump, motor, and electrical panel meet IEEE-45 standards for shipboard electrical service and the pump can be supplied with ABS certification.

The pump can provide 11 feet of suction allowing the brominator to be mounted on the deck above the tanks if desired.

**Capacity:** Each bromine cartridge is estimated to treat 55,000 gallons to 1 ppm.\* Recirculation flow at 30 psi is over 30 gpm when providing 11 feet of suction.

### Weights and Dimensions:

- Brominator: 350 lb; 40" W, 27" H, 24 1/2" D
- Control Panel: 50 lb; 22" W, 22" H, 9" D

**Piping Interfaces:** 1 1/2" MIL-F-1183 union

\* Time to raise bromine level will be dependant on water quality, temperature, and volume of water in tank.



## Howell Laboratories, Inc.

188 Harrison Rd.  
Bridgton, Maine 04009  
(207) 647-3327

(888) 744-8359

FAX (207) 647-8273

e-mail: [contracts@howelllabs.com](mailto:contracts@howelllabs.com)

web: [www.howelllabs.com](http://www.howelllabs.com)

An Employee-Owned Company

Certified to ISO 9001