Mixed Oxidant Electrolytic Disinfectant Generator Model 8060

Selected for the DDG 1000 Zumwalt Class

Features

- **Deck-mounted for DDG 1000.**
- **Capable of treating both inline from water maker and recirculation of storage tanks. Independent injection systems.**
- **Fully automatic, with full diagnostic capability.**
- **On-board Chlorine Analyzer monitors the recirculation loop to ensure the storage tank is maintaining the proper residual level.**
- **Removes biofilm in the distribution system.**
- **Treated water has no unpleasant taste.**
- **No bromine or other HazMat used or produced. No operator exposure to HazMat. No bromine canisters to dispose of.**
- **Produces and stores only a day's worth of concentrated disinfectants at a time.**
- **Five-year typical cell life.**

General Description

The Model 8060 Mixed Oxidant Electrolytic Disinfectant Generator (MEDG) uses the “hardened Commercial-Off-the-Shelf" (COTS) approach for the most effective, most economical way to protect a ship’s potable water supply. It uses patented cell technology under license from MIOX Corporation (www.miox.com) to produce mixed-oxidant disinfectants by electrolysis of a freshwater brine solution. This same technology in our larger Model 7060 is fully qualified and selected for LPD 17 Class, CV/CVN, LHD 8, and LHA 6.

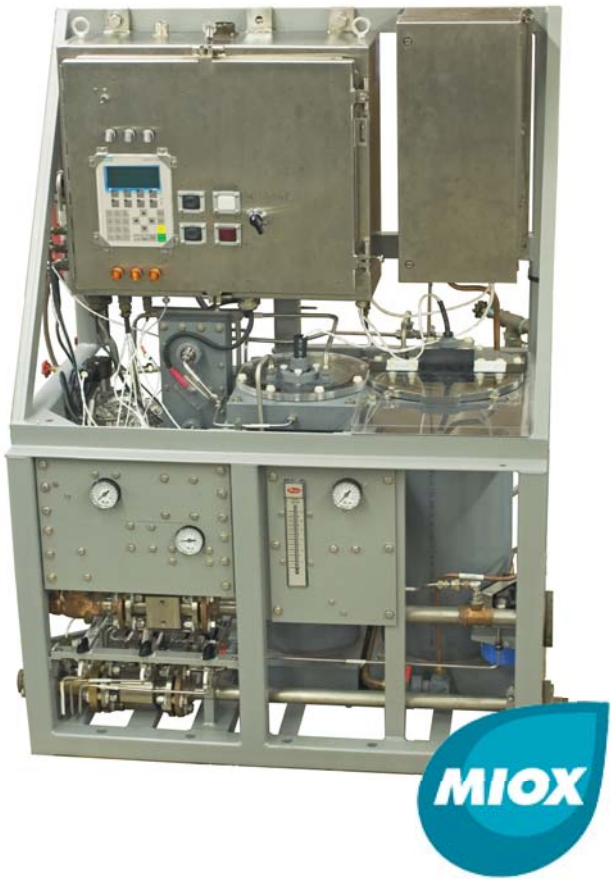
The fully-automatic system uses an on-board chlorine analyzer and a PLC to control the injection rate. The PLC supervises every aspect of operation and provides full diagnostics. In normal operation, the operator merely adds salt to the unit occasionally.

The Model 8060 is designed to meet the needs of DDG 1000, as well as retrofit for other classes such as DDG 51, CG 47, FFG 7 & LSD 41. Designed to meet the full gamut of shipboard environmental requirements, including high-impact shock, vibration, EMI, and airborne noise.

Specifications

All non-metallic wetted materials certified to NSF-61, 42, or 44 for drinking water.

- **Output:** Mixed oxidants, including free available chlorine and other chlor-oxygen species.
  - Variable production rate on demand, up to 2 lbs/day Free Available Chlorine (FAC) at a nominal concentration of 3,000 ppm, enough to treat 240,000 gallons (900 M^3) of potable water per day to 1 ppm.



  - Disinfectant injection by PLC-controlled gear pump.
- **Input Requirements:**
  - Electricity: 115 VAC, 60 Hz, single phase, 20 amperes.
  - Water: 8 - 12 gph potable water at 35 - 75 psig to operate the electrolysis system.
  - Air: 3.5 scfm minimum at 150 psig maximum.
  - Other: Solar salt; once-a week loading (one 25-lb bag per week typical).
- **Operator Interfaces:**
  - Operator selects injection rate in ppm via Human-Machine Interface (HMI).
  - Profibus interface for remote monitoring and control.
- **Dimensions:** 24” D x 40” W x 58” H.
- **Weight:** 690 lb dry; 782 lb wet, estimated.

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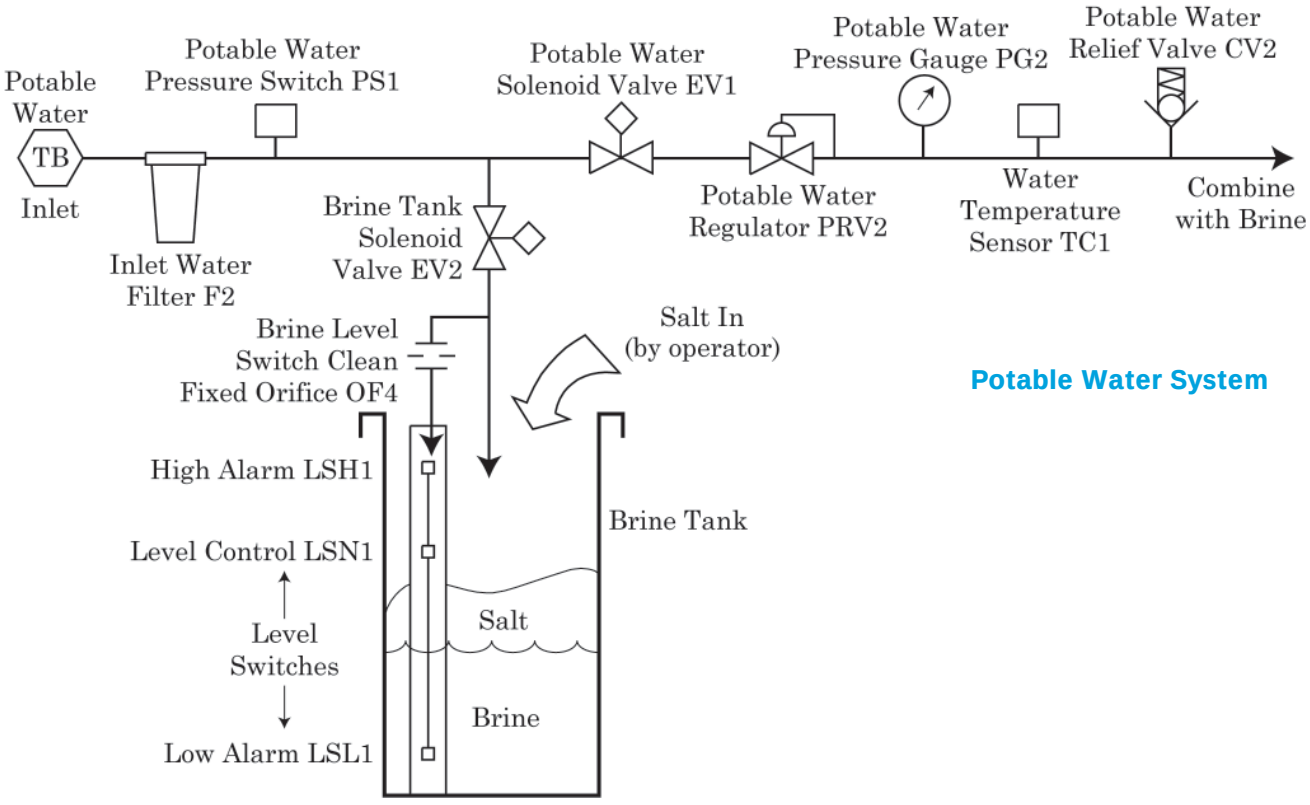
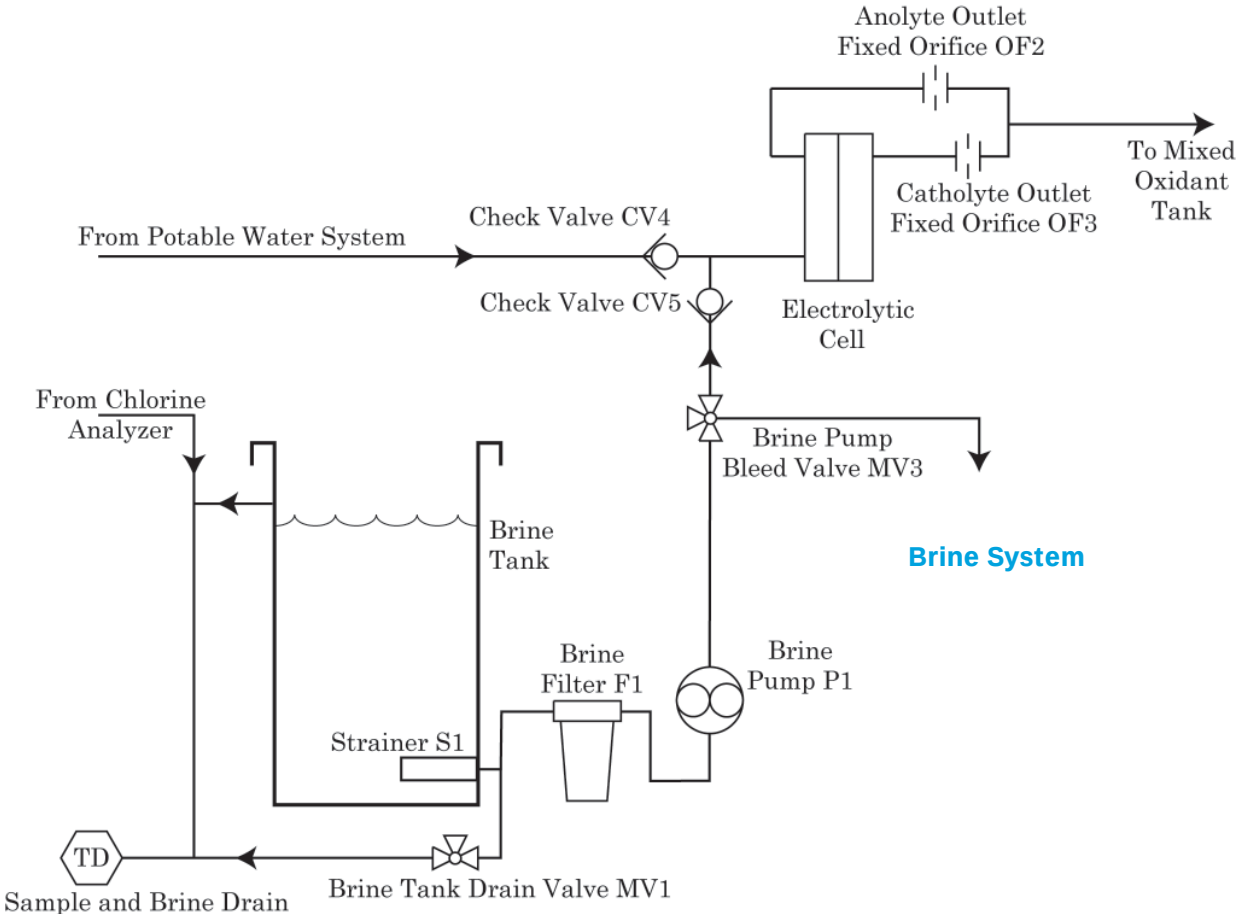
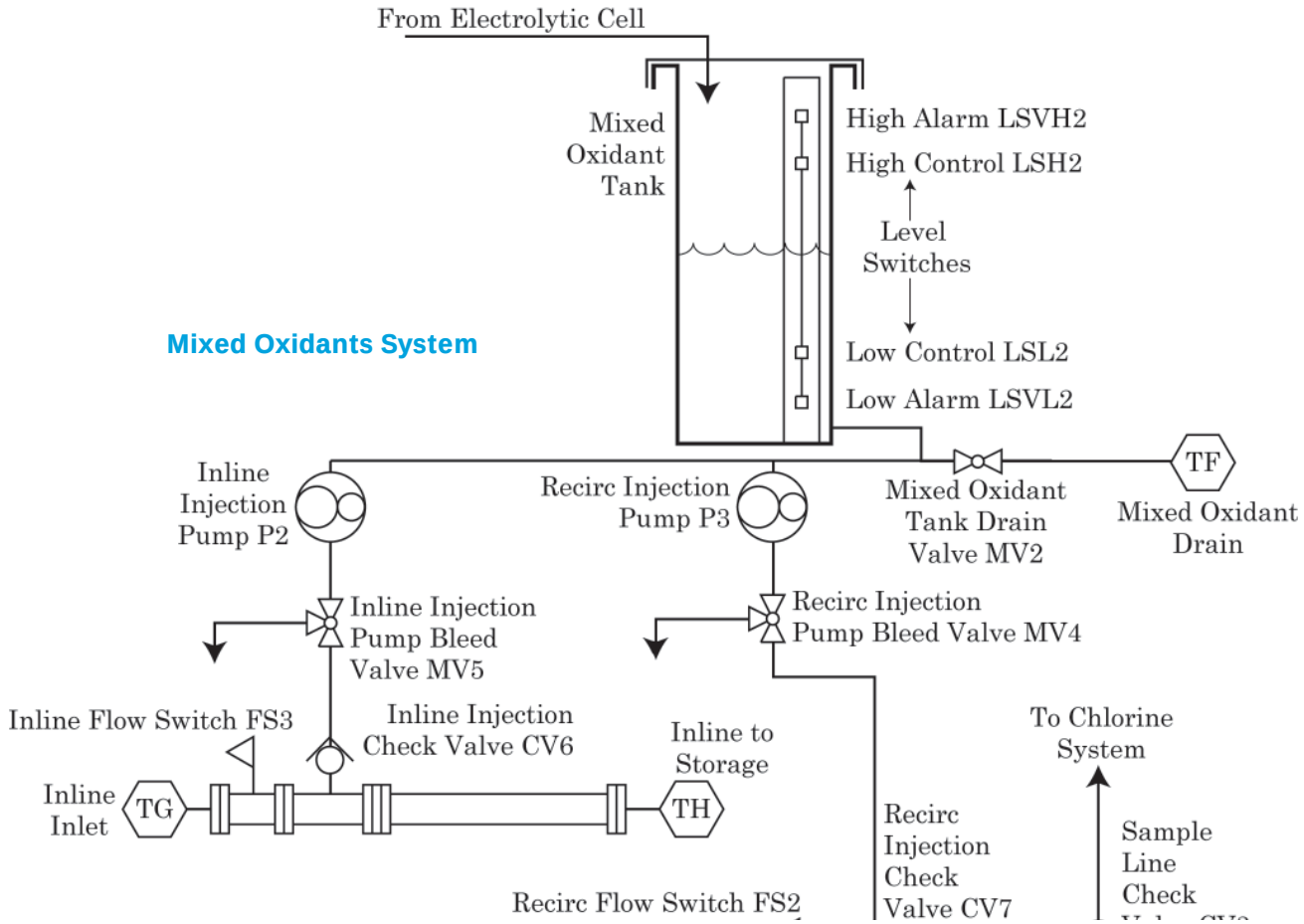


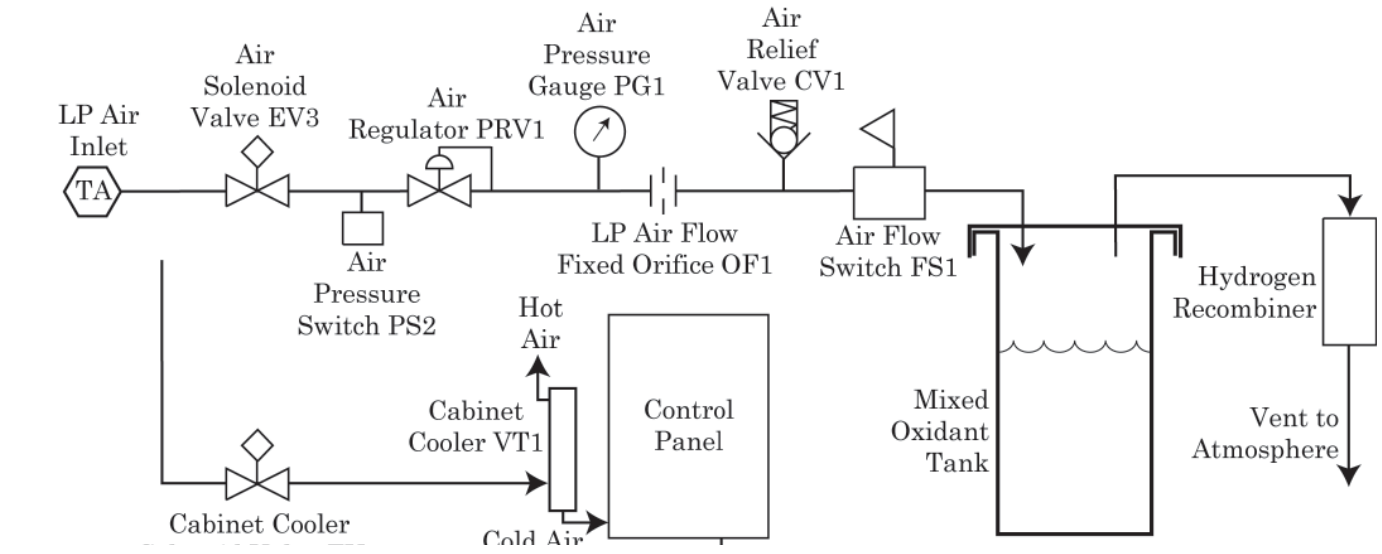
Potable Water System



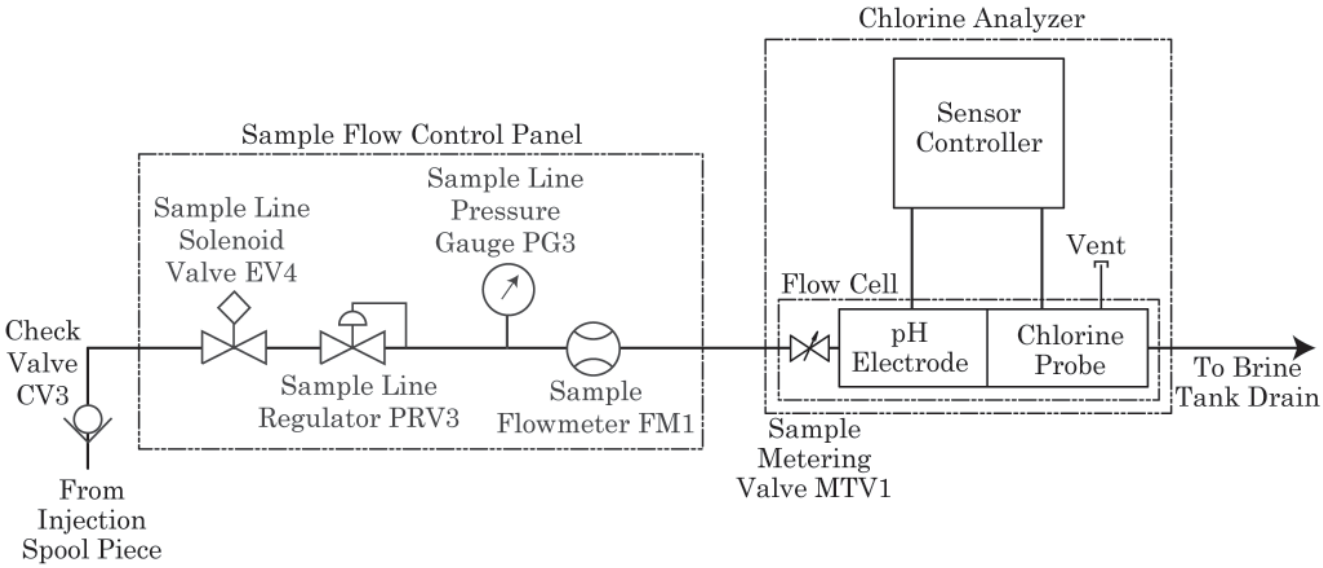
Brine System



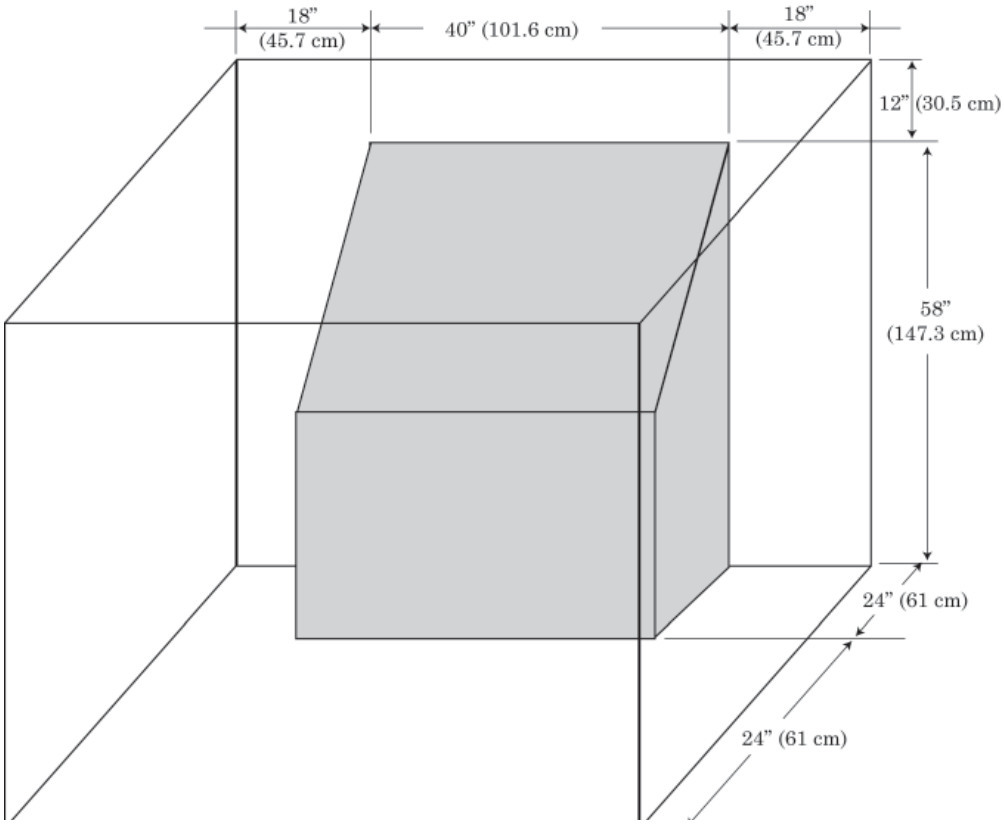
Mixed Oxidants System



LP Air System



Chlorine Analyzer System



Maintenance Access Envelope