COMPREHENSIVE WARRANTY
It is our policy to provide every customer with a state of the art, fully tested system. Each MicrOclor Hypochlorite Generation System carries a full three-year support agreement covering all parts and labor. In addition, the electrolytic cells and cell housings are warranted on a prorated basis for years 4-7.

SERVICE & SUPPORT
PSI prides itself on our service and technical support. If you need assistance, we're here to help. We offer complete support for your MicrOclor Hypochlorite Generation System including all peripheral components. 24/7 phone support and next day parts are available for your MicrOclor System. PSI guarantees next day field service, 7 days a week, with technicians located in all major markets plus an extensive factory trained representative network.

YOUR BEST DISINFECTION OPTION: ON-SITE SODIUM HYPOCHLORITE GENERATION
- Safest OSHG Design
- Low Cost, High Quality Hypochlorite
- Vertical V-Ray Cell Design
- Multi Cell Configuration
- Immediate/Passive Hydrogen Removal
- No Hydrogen Containment
- Small Footprint
- Low Maintenance
- 24 Hour Service Provided

MAKING BLEACH MADE EASY

ON-SITE SODIUM HYPOCHLORITE GENERATION

MC-1000
1000 pounds per day

LC-40S, 40 pounds per day

MC-300, 300 pounds per day

LEARN MORE ABOUT MICROCLOR
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www.4psi.net/products/microclor/video/
MicrOclor is the overwhelming choice for facilities.

The combined benefits of the following unique features make MicrOclor the most robust and durable system available.

Advancements in system safety and ease of operation make MicrOclor the most robust and durable design of today’s MicrOclor System.

The success of MicrOclor is due to a focused pursuit of safety, which has been achieved through the development of a safe on-site hypochlorite generation system called MicrOclor On-Site Hypochlorite Generation (OSHG).

MAKING BLEACH MAKES SENSE

MicrOclor On-Site Hypochlorite Generation (OSHG) is the safe, sound, clean & green disinfection option.

As concerns around regulations change regarding the safety and security of using chlorine gas for water disinfection, many utilities are considering sodium hypochlorite (bleach) as a safer disinfection alternative.

Once the decision to convert to a safer alternative has been made the question remains whether to purchase or produce sodium hypochlorite. MicrOclor is the right choice to meet your disinfection requirements.

The items listed below are the most significant of the many benefits realized by upgrading to MicrOclor OSHG. We encourage you to contact the many Utilities currently using MicrOclor for further evidence supporting their decision to purchase a MicrOclor upgrade.

SAFETY

MicrOclor’s dilute (0.8%) hypochlorite solution is below the hazardous material concentration threshold of 1%.

This reduces operator likelihood exposure and eliminates the need for diluting commercial hypochlorite to compensate for degradation which results in inconsistent solution strength.

SUSTAINABILITY

Common salt. This will reduce vendor deliveries by 66% compared to commercial bulk hypochlorite. Less truck traffic through the community and at the facility will reduce the potential for accidents and eliminate the associated carbon footprint. This further advances efforts towards green facility management and improves the water security profile.

CONDUCTIVITY OF OPERATIONS

MicrOclor OSHG will enable storage of larger quantities of raw materials both necessary for your distribution process. This will result in a more sustainable and robust treatment facility better able to withstand the demands imposed by a natural disaster or health emergency. OSHG is the only available distribution technology that enables compliance with the Department of Homeland Security recommendation for Pandemic RI Planning Guidelines.

REDUCED OPERATIONAL COSTS

Since all chlorine compounds are derived from salt, electrode conversion at the facility will result in significant savings to the owner. Typically, it costs 50-70% less to produce sodium hypochlorite compared to buying it.
The safety and cost effectiveness of On-Site Hypochlorite Generation makes it the best option for disinfecting water. MicrOclor’s modular & durable design utilizes standard components, which are easily customized to meet a wide range of requirements.

A typical MicrOclor system includes:
- Stainless Steel Skid Assembly
- Water Softener
- Brine Tanks
- Brine Pump
- Electrolytic Cells
- Skid mounted PLC Control Panel
- D.C. Rectifier
- Hydrogen Storage Tanks
- Hydrogen Metering Pump
- Hydrogen Dilution Blower

MicrOclor is modular in design and utilizes standard components, which are easily customized to meet a wide range of requirements.

The combined benefits of the following unique features make MicrOclor the most robust and durable system available today:
- **Compact Cell Design**
- **High-Velocity Electrolyte Circulation**
- **Direct Hydrogen Management**
- **Continuous Process Control**
- **Vertical/Multi Cell Configuration**

Advancements in system safety and ease of operation make MicrOclor the most robust and durable system available today. The patented MicrOclor design is the result of over twenty years of experience in the water treatment industry and the development of MicrOclor’s unique V-Ray vertical cell arrangement. MicrOclor is the right choice compared to commercial bulk hypochlorite. Less trucking and no need for diluting commercial hypochlorite to produce sodium hypochlorite compared to buying it.

MicrOclor On-Site Hypochlorite Generation

**MAKING BLEACH MADE EASY**

MicrOclor for further evidence supporting their decision to encourage you to contact the many Utilities currently using MicrOclor. We recommend for Pandemic Flu Planning Guidelines. Compliance with the Department of Homeland Security imposed by a natural disaster or health emergency. OSHG treatment facility better able to withstand the demands of over pressurization by releasing all hydrogen directly from separators which can contribute to excessive cell pressure buildup in the cell. Reduces & Hypochlorite Storage Tank, will be appropriately sized for each application.

### MicrOclor Product Parameters

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**NOTE:** Nominal running AMPERAGE is approx. 75% of KVA rating.
MAKING BLEACH MADE EASY

The safety and cost effectiveness of On-Site Hypochlorite Generation makes it the best option for disinfecting water.

Since 1986 On-Site Hypochlorite Generation has been recognized as an effective method for water treatment. Through the efforts of the team now at Process Solutions this technology has developed over three generations into the robust and durable design of today’s MicrOclor System.

The patented MicrOclor design is the result of over twenty years of experience in the manufacturing, installation and servicing of hypochlorite generation equipment. Advancements in system safety and ease of operation make MicrOclor the overwhelming choice for facilities.

The combined benefits of the following unique features make MicrOclor the most robust and durable system available today:

- Vertical/Multi Cell Configuration
- Direct Hydrogen Management
- Continuous Process Control
- Full Wave DC Power
- Compact Cell Design
- High-Velocity Electrolyte Circulation

VERTICAL/MULTI-CELL CONFIGURATION

MicrOclor’s vertical “V-Ray” cell arrangement is the most significant of the many features that distinguish it from the earlier generations of equipment.

DIRECT HYDROGEN MANAGEMENT

The V-Ray™ electrolytic cells are configured in a vertical array and vented inside to atmosphere. This prevents the chance of over pressurization by releasing all hydrogen directly from each cell. Other systems use the storage tanks as hydrogen separators which can contribute to excessive cell pressure and vibration in the discharge piping.

The hydraulic lift created by the hydrogen separation circulates electrolyte through the cell loop at 5 SPPS. This greatly reduces excess heat and the number of parts utilized in the rectifier. This reduces HVAC loads and improves system reliability.

FULL WAVE DC POWER

Automated brine control allows full wave rectification and greatly reduces excess heat and the number of parts utilized in the rectifier. This reduces HVAC loads and improves system reliability.

CONTINUOUS PROCESS CONTROL

MicrOclor’s integrated pump is controlled by the PLC to optimize salt conversion efficiency and hypochlorite production. Automating precise brine control reduces operator intervention and improves system efficiency.

WATER SOFTNER

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LEARN MORE ABOUT MICROCLOR

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Email: enquiries@waterprocesssolutions.com
Web: www.waterprocesssolutions.com

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MicroClor Brochure v062013