NALCO Water
An Ecolab Company

iChlor™ Monochloramine System

Take control of your water safety program with the iChlor Monochloramine System.

Purposefully designed for complex buildings, iChlor supports a consistent approach to water quality management to promote protection from waterborne contaminants*

*Such as *Legionella*, when used as part of a regulatory-compliant water management program

How the iChlor System Delivers Confidence Across Your Water System

Precision You Can Trust

- Designed to promote consistent monochloramine levels evenly throughout complex plumbing systems
- ALS global certified to NSF/ANSI/CAN 61 & 372 for potable water system compliance

Infrastructure Compatibility

- Relevant for systems where corrosion behavior is a key design factor[1]
- Designed for compatibility with common plastic and polymer system components[1]

Digital Performance Visibility and Control

- Platform enabled performance insights including alarms and trending through 3D TRASAR™ Technology and the secure, cloud-based ECOLAB3D™ digital platform

Engineered for Facilities, Aligned With Infection Prevention

- Continuous preventive approach for assurance beyond periodic confirmation
- Transparent program that supports documentation and verification over time

Reduced Operational Load

- Nalco Water owned, operated and maintained
- Turnkey operation with built-in safeguards and automatic shutdowns to ease day-to-day operational burdens

Cold-Water Advantage

- Point-of-entry dosing enables system-wide coverage
- Treat cold water once to help protect both cold and hot systems
- Thermally stable residual supports performance throughout the building

Monochloramine Distal Reach and Organic Build-up Penetration

- A consistent dosing residual is critical for supplemental disinfection effectiveness, including distal outlets[2]
- Monochloramine provides a more stable and persistent residual than chlorine or chlorine dioxide[5]
- Penetrates organic build-up 170x faster than free chlorine[3]

System Control and Operational Confidence

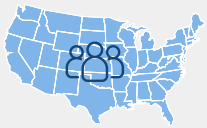
The iChlor system streamlines residual control across complex water systems through dosing, automation and digital visibility

- Point-of-entry dosing designed to establish an early residual and support stability as water moves through complex plumbing
- Digitally enabled performance visibility, including alarms and trending through 3D TRASAR™ Technology powered by the secure, cloud-based ECOLAB3D™ platform
- Industry-leading control logic and safeguards that help maintain target residuals without constant manual adjustment

MONOCHLORAMINE: Established Use Across Water Systems

Used in **~30%** of large U.S. water systems[6, 7]

Treating drinking water[4] since the **1900s**



Serves more than **1 in 3** Americans[6, 7]

Documented in hospital contaminant management[2, 4, 8]

Serving Healthcare and a Range of Building and Institutional Environments

Hospitals | **Long-term Care** | **Hospitality** | **Gaming** | **Commercial Buildings** | **Universities**

Science-Backed. Precision Dosing. Clear System Visibility.

The iChlor system brings together Nalco Water's deep water safety expertise with a turnkey, low-touch system design to support the establishment of a stable residual across complex networks, helping teams move forward with confidence and lesser operational complexity.

1. The Water Research Foundation (1994). Chloramine effects on distribution system materials (Project 508). https://www.waterrf.org/research/projects/chloramine-effects-distribution-system-materials
2. Centers for Disease Control and Prevention (2024, February 14). About water disinfection with chlorine and chloramine. https://www.cdc.gov/drinking-water/about/about-water-disinfection-with-chlorine-and-chloramine.html [1](https://www.epa.gov/sites/production/files/2015-10/documents/legionella-factsheet.pdf)
3. Lee, W. H., Wahman, D. G., Bishop, P. L., & Pressman, J. G. "Free chlorine and monochloramine application to nitrifying biofilm: comparison of biofilm penetration, activity, and viability." Environmental Science & Technology (2011). The authors report that for equivalent chlorine concentrations, monochloramine initially penetrated biofilm 170 times faster than free chlorine.
4. Chloramines in Drinking Water | US EPA, The Role and Behavior of Chloramines in Drinking Water
5. CDC Affiliated, Peer Reviewed Hospital Study (City Wide Exposure) Risk of Hospital Acquired Legionnaires' Disease in Cities Using Monochloramine Versus Other Water Disinfectants Authors: Heffelfinger et al.Journal: Infection Control & Hospital Epidemiology Year: 2003 Peer reviewed | CDC associated Article record: https://thslc-houston.primo.exlibrisgroup.com/discovery/fulldisplay/cdi_proquest_journals_235224536/01TEXASHEALTH_HOUSTON:TMC_INST [savvycitizenapp.com]
6. What's In My Water | Monochloramines (Article: https://drinktap.org/Water-Info/Whats-in-My-Water/Monochloramines)
7. Water Quality Association | Chloramine Fact Sheet (https://wqa.org/resources/chloramine/)
8. CDC – Peer-Reviewed, Public Health Journal Reducing *Legionella* Colonization of Water Systems with Monochloramine [Authors: Flannery et al.] Journal: Emerging Infectious Diseases Publisher: U.S. Centers for Disease Control and Prevention Year: 2006 Peer-reviewed | Federal | Open-access Direct CDC link: https://stacks.cdc.gov/view/cdc/7903 [independent.co.uk]

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