Lync

Complete Engineered System Solutions

Superior Safety
Maximum Efficiency
Improved Water Quality

Lyncbywatts.com

Lync® by WATTS

Expertly Designed Hot Water Solutions

Lync combines advanced technologies and innovative design with industry-leading manufacturing expertise to deliver complete, cost-effective commercial water technology system solutions from a single source.

Lync's complete, fully engineered system solutions address the growing concerns about degrading water quality conditions, the need to mitigate the risks of infection from waterborne pathogens, as well as the increasingly complex task of installing the best water system that provides maximum reliability, energy efficiency and low lifecycle costs while meeting rigorous building codes.

Our fully assembled, integrated solutions provide your building with maximum efficiency, superior safety and improved water quality while minimizing planning, design and installation time to reduce costs and increase your return on investment.

Our Full Range of Solutions:

Aegis®
CO_2 Heat Pump Water Heaters

WQ Series
Water Quality Systems

Accessories & Tanks
AquaSolve®, DigiTemp® Jr., Bolt®, Bolt® Mini

Engage™
Design Development and Project Execution

Built to Provide Multiple Benefits

Save Money

- **Reduced energy costs**
  Lync's high efficiency water heating solutions and state-of-the-art technologies help reduce energy and water flow for superior efficiency and savings
- **Lower cost of ownership**
  The fully engineered, pre-assembled systems provide increased equipment life expectancy, reduced maintenance needs and lower operational costs
- **Compact footprints**
  The compact design of all the solutions can facilitate a smoother, less labor-intensive install process and free up more space to be used for other revenue and value-generating purposes

Simplify Planning, Installation and Maintenance

- **Easy, quick installation**
  Fully designed and assembled solutions with known specs and dimensions are less skill intensive to install and simplify retrofits
- **Faster troubleshooting and service**
  Single-source solutions wholly designed and assembled by the manufacturer offer one point of contact for support and troubleshooting
- **Reduced maintenance**
  Solutions are optimized for peak performance and feature low-maintenance components, and technologies that simplify operation and improve system efficiency

Increase Safety

- **Mitigates risks of Legionella and waterborne pathogens**
  - AquaSolve and sediment filtration mitigate scale and sediment buildup, which can help reduce the development of and the associated risks of developing bacteria and biofilm
  - Thermal sanitization to help reduce the growth of waterborne pathogens
  - UV disinfection of Legionella bacteria (99.9999% reduction)
- **Mitigates scalding**
  Precise temperature control reduces risks of scalding

Improve Efficiency and Sustainability

- **Superior efficiency**
  High thermal efficiency heaters; electric CO_2 heat pumps with a COP of 5.0 or higher
- **Less chemical byproducts**
  Anti-scale media has no backwash cycle resulting in less water usage; UV disinfection creates no byproducts
- **Longer-lasting systems**
  Longer product lifespans with durable materials, expert design and construction, and scale prevention

Aegis A and Aegis W

Aegis high-efficiency, commercial heat pump water heaters leverage the superior qualities of natural refrigerant-grade CO_2 (R744) to produce reliable, domestic hot water up to 170°F at a wider ambient temperature range than most alternatives.

- CO_2 (R744) refrigerant
- 100% electric operation
- Air and water sources
- Highly energy efficient (COP of 5.0+)
- Environmentally friendly
- Wide ambient operating range

Reliable, Year-Round Hot Water

The use of R744 enables Aegis to operate at a wider temperature range than commonly used refrigerants, R134a and R410a. This makes Aegis a reliable source of year-round hot water production at temperatures down to -4°F (14°F if water sourced) reducing or eliminating the need for a backup water heating system in colder months, as is typically the case with heat pump water heaters.

Superior Energy Efficiency

Powered by electricity and the superior qualities of R744, the Aegis heat pump water heaters are one of the most energy efficient ways available to heat domestic water with a Coefficient of Performance of 5.0 or higher. By absorbing the “free” ambient heat from either an air or water source, Aegis outperforms electric resistance and gas in terms of energy efficiency.

Safe and Eco-Friendly Refrigerant

Aegis leverages the CO_2 refrigerant R744, which is equally non-toxic and non-flammable with no negative impact on the ozone layer. This refrigerant-grade CO2 has a dramatically lower GWP (Global Warming Potential) with a value of 1 compared to 1,430 (R134a) and 2,088 (R410a).

Meets Strict Carbon Emission Codes

Aegis is a great solution in places with no-gas laws and meets ever stricter building codes regarding building decarbonization and electrification. The high COP can help reduce energy costs substantially and allow buildings to leverage ‘load shifting’ and ‘load shaving’ strategies to maximize their benefits.

Eco-Friendly CO_2 Heat Pump Water Heaters

Aegis A (Air Source)

Aegis W (Water Source)

A Variety of Applications

- Air, water, or air with water source recovery
- 250, 350, or 500 MBH*
- Ideal for new and retrofit applications
- Markets: multifamily, university, hospitality, office buildings, industrial, healthcare, and more

Year-Round Hot Water Production

- Hot water production up to 170°F (77°C)
- Wide ambient operation from -4°F (-20°C) to 113°F (45°C) (from 14°F for Aegis W)
- Reduces or eliminates reliance on back-up heating
- Advanced defrost cycle with electric coil**

Energy Efficient and Eco-Friendly

- Coefficient of Performance of 5.0 or higher
- Non-toxic and non-flammable CO_2 refrigerant
- No negative impact on the ozone layer
- Global Warming Potential (GWP) of just 1.0
- 100% electric operation

Options

- Electric storage tank increases system flexibility
- Corrosion-resistant outdoor tanks
- Cool recovery function**
- Fan coil coating for coastal areas**
- EC fan for additional energy savings**

Aegis heat pumps are the ideal solution to:

- Adapt to no-gas laws
- Reduce CO_2 emissions
- Cut energy costs
- Improve the benefits of ‘load shifting’ and ‘load shaving’
- Support ESG Initiatives
- Implement a hybrid heating solution

*Varies with unit size and source temperature.
**Applicable to Aegis A only

Lync Bolt Electric Storage Tank

Lync's Bolt electric storage water heaters are versatile heaters that can be used to drive or support a variety of electrification efforts, whether they are used with heat pumps as building a recirculation heater, as full system backup, or as a standalone heater. The all-LDX stainless steel construction, does not require anode rods and is ideal for use at higher temperatures with heat pumps, solar thermal water heating, or other energy-efficient solutions. The optional outdoor coating allows these to be installed outdoors for further application flexibility.

Unmatched Corrosion Resistance with Duplex Stainless Steel

Our revolutionary engineered design combines duplex stainless-steel alloy with highly specialized and proprietary manufacturing process. The result is a long-lasting, reliable water heater with superior corrosion-resistance.

Save Money, Save Energy, Save the Planet

The Bolt tanks are wrapped with R-22 insulation made of fiberglass without formaldehyde. This makes the Bolt ideal for use in high temperature applications such as backup to a heat pump water heater, where higher storage temperatures are often used, while ensuring minimal thermal losses.

Superior Heating and Controls

The Bolt features bundles of 9 or 18 kW Incoloy sheathed heating elements, controlled by a TempTrac electronic controller with staging capabilities, for quick recovery and maximum temperatures of 180°F. These controls include Modbus RTU capability to enable plant monitoring through standard building automation systems. An optional gateway is available for BACnet control.

Monolithic Welded Construction

Factory-installed base head ring and clip systems welded directly to the tank body provide sturdy mounting to accommodate installation in areas that require extra restraint, such as high-wind locations on rooftops.

Flexibility in all Lync Applications

- **Input from 18 kW to 144 kW, ETL listed to UL 1453 and CAN/CSA-22.2**
- **ASME stamped as per BPV Section IV HLW rated to 150 psi**
- **Third party reviewed in accordance with NSF-372**
- **Corrosion-resistant duplex stainless steel for higher water temperatures**
- **Rhino polymer outer coating and R-22 fiberglass insulation**
- **Coating resistant to impacts, abrasions & UV light**
- **Sizes: 250 and 500 gallons**
- **25-year tank warranty**

Bolt Mini: Perfect Partner for Aegis Heat Pumps

Whether serving as a recirculation heater, booster, sidearm backup, or even a standalone solution, Bolt Mini electric water heater provides dependable performance across diverse applications. Its advanced design makes it the ideal choice for sustainable building systems and electrification projects.

Why Bolt Mini Complements Aegis

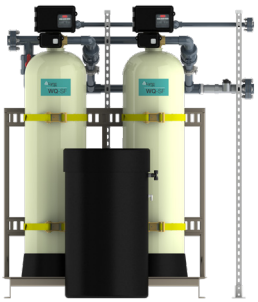
Any heat pump water heater excels at efficiency, but peak demand or recirculation needs can challenge the system. Bolt Mini bridges that gap by providing targeted heating support, keeping water temperatures stable and ensuring uninterrupted comfort.

Features and Benefits

- 480V, 3-phase standard construction
- Incoloy sheathed heating elements
- Superior corrosion resistance – no tank lining needed
- No anode rods or impressed current anodes are required
- More durable than 316L or 304L stainless steel in potable water
- Highly resistant to chloride stress corrosion cracking
- Inherently resistant to aqueous corrosion in potable water

WQ-AS and WQ-SF

Lync's WQ Series consists of unique solutions engineered by our water quality experts to address a range of water quality issues that negatively impact water heaters, plumbing systems, building occupants and the environment.



- Pre-assembled, configurable systems
- Effective, low-maintenance technologies
- Anti-scale technology
- UV disinfection and sediment pre-filtration
- Water softener with sodium and potassium

Configurable Systems to Match Site Conditions

WQ Series are available in several configurations, and each system offers distinct features to meet specific site conditions, requirements, and water quality issues.

Pathogen Mitigation with No Added Chemicals

WQ-AS effectively mitigate the risks of pathogen growth in water systems without adding chemicals that can change the taste, smell, and safety of the water. They utilize a highly effective UV light to inactivate bacteria*. An integrated sediment pre-filtration ensures water clarity for greater effectiveness.

Long-Lasting, Low-Maintenance System

The systems are designed to require minimal maintenance. The anti-scale technology in WQ-AS operates with no backwashing, salt or chemicals and its UV disinfection system features automatic self-cleaning wipers and built-in purging to prevent fouling of the quartz sleeve. The metered control valves in WQ-SF maximize the softener regeneration efficiency and minimize the salt consumption.

Environmentally Friendly, Non-Toxic Solutions

Unlike chemicals-based disinfection processes, UV light disinfection, as utilized by WQ-AS is an entirely physical process. Highly effective yet non-toxic, it produces no harmful byproducts. The anti-scale media in WQ-AS requires no backwash cycle resulting in less water usage. WQ-SF can reduce soap and cleaning product consumption by up to 50% by softening the water.

*6-log reduction of Legionella bacteria

Complete Systems for Optimal Water Quality

WQ-AS

Multi-Barrier Protection Against Pathogens and Scale

- Scale mitigation with no backwashing or salt
- UV light disinfection for bacteria*
- Sediment pre-filtration (5 microns)
- 40, 70, and 100 GPM configurations
- Low-maintenance components
- Fully assembled and fastened onto steel skid

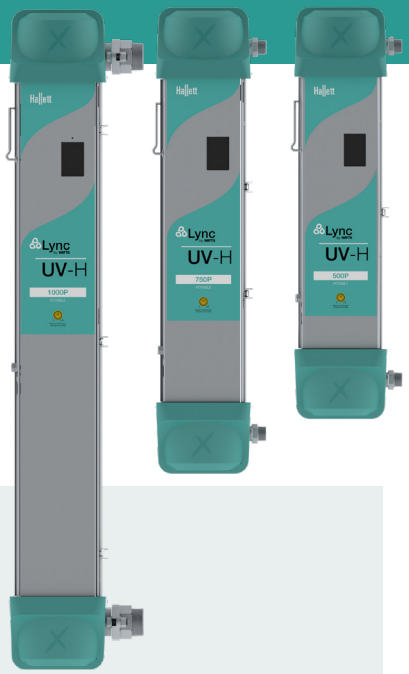
WQ-SF

Effective, Low-Maintenance Water Softener

- Configurable tanks hold ion exchange resin
- Brine tank for regeneration solution
- Metered control valves for automatic operation
- Twin Alternating models (25 and 50 GPM)
- Progressive Flow models (75, 100, 200 and 300 GPM)
- Fully assembled and fastened onto steel skid
- High flow versions available

*Tested and validated for minimum of 6-log reduction of Legionella bacteria

Advanced UV Light Disinfection Solutions



Lync's UV-H provides an advanced, effective, and virtually maintenance-free UV light disinfection solution to treat inlet water for a variety of application types. It mitigates the presence of many waterborne pathogens and the buildup of biofilm to protect building occupant health and improve the longevity of the water system.

Hard Water? No Problem!

The advanced design of the UV-H enables treating low-quality waters with hardness levels as high as 50 grains per gallon and iron levels up to 3 mg/L without the need to use softeners or other scale control solutions.

Protect Occupants and Plumbing Equipment

With a UV-H system in place, buildings can sustainably and effectively mitigate health concerns related to Legionella bacteria in the water coming into the building. Lync UV-H can effectively inactivate 99.9999% of Legionella bacteria (6-log). It can also help mitigate the risks of microbiologically induced corrosion and pitting corrosion (related to chlorine usage).

Trouble-free Maintenance

UV-H is engineered for trouble-free maintenance and minimum downtime. Automatic self-cleaning wipers and built-in purging prevents fouling of the quartz sleeve by mineral scaling and biofilm, making it up to 10 times more effective than conventional UV systems in difficult water applications. The UV lamps are placed in the front cabinet to make replacing them a simple task and to eliminate the need for maintenance clearance at top and bottom of the system for instant space savings.

Advanced, Proprietary Design

Through a state-of-the-art 360-degree UV light emission provided by Crossfire Technology™ and a two-lamp design, the reactor leaves minimal opportunity for microorganisms to be blocked from the UV light by particles. UV-H remains effective at hardness levels as high as 50 grains per gallon and iron levels up to 3 mg/L.

Potable

Wastewater

Reuse and Rainwater

Engage™ with Us

Complete design development and project execution with one convenient point of contact.

Finding the right, cost-effective system for your building can be a long, confusing, overwhelming process. With so many moving parts, it is often difficult to zero in on what exactly your building needs are in terms of energy efficiency, water safety, regulatory compliance, and water technologies.

With Lync's Engage, you get a planner, a designer and a single point of sourcing and responsibility to develop and execute your project tailored to your needs and circumstances.

As experts in heating, hot water, and water quality products and systems, we leverage decades of industry knowledge, our vast network of connections and direct insider access to a broad product portfolio to give you the best plan of action specifically tailored to your site.

Project Capabilities

Domestic Hot Water Systems • Hydronic Hot Water Systems • Water Quality Systems • More

For more info, visit lyncbywatts.com or email us at engage@lyncbywatts.com.

Complete Engineered System Solutions

Superior Safety. Maximum Efficiency. Improved Water Quality.

Lync combines advanced technologies and innovative design with industry-leading manufacturing expertise to deliver complete, cost-effective commercial water technology system solutions from a single source.

Our fully assembled, integrated solutions provide your building with maximum efficiency, superior safety and improved water quality while minimizing planning, design and installation time to reduce costs and increase your return on investment.

Lyncbywatts.com

Lync® by WATTS

Engineered Solutions

Fort Worth, TX • (817) 335-9531 • lyncbywatts.com