



Cold Climate Heat Pump Water Heaters

Heat pumps are central to enabling a zero-emission future. Cold climate heat pump water heaters enable electrification in more climate zones.

Heating domestic hot water with a heat pump in cold ambient conditions is quite different from heating air for space heating. People often point to HVAC heat pumps, which can heat their home when the ambient temperature is 0°F or below, and ask why our heat pumps can't make hot water when it is that cold. If they can do it, why can't Nyle?

There are a few major differences in the application of a heat pump to these different demands which yield different results.

1. Domestic hot water is much hotter than the warm air needed for space heating.
2. Potable water operates across a wide temperature range.
3. Demand for space heating is generally stable and constant, slowly rising and falling with ambient conditions whereas demand for hot water comes in surges of high-demand.
4. The US has very specific requirements for drinking water.

As a result, heat pump systems which are designed for potable water heating are engineered with materials and performance optimized to meet these unique requirements. Heat pump systems which are not designed specifically for potable water heating and/or if they are not manufactured specifically for the US market will have deficiencies or other characteristics which make them less than ideal for the application of heating potable water.

Nyle Water Heating Systems' Heat Pump Water Heaters are designed and manufactured in North America exclusively for heating potable water, meeting all certification requirements for use in all fifty states and Canada.

With continuous operation down to 10°F, our e-Series heat pump water heaters are designed to efficiently produce domestic hot water in colder climates where ambient temperatures can reach 0°F. Hybrid systems are utilized where temperatures reach temperatures colder than 0°F.

If the option exists, the domestic water heating heat pump system can be connected to a water-based, or hydronic HVAC system which completely alleviates issues with cold-ambient temperatures. These come in many varieties, all of which are compatible with water-source HPWH systems; condenser water loops, geothermal, chilled water etc. The types of systems listed operate at low to

medium temperatures which make them an ideal source for a domestic hot water heat pump. Furthermore, the more efficient a building's envelope is, the more cooling dominant it tends to be which puts the domestic HPWH in a waste heat recovery cycle for most of the year.

Sincerely,
NWHS
The Way Water Heating Should Be

2022 AHR Expo

Nyle Water Heating Systems will be at booth **N8400** at the AHR Expo, from January 31 to February 2, 2022.



Nyle News

Nyle Hires



Nyle would like to welcome the two newest members of the team; Michelle Swope as a Marketing Assistant, and James Burke as an Inside Salesman!

Michelle Swope recently graduated with her Masters in Business Administration/BA in marketing management. She enjoys spending time outdoors, which feeds her interest in preserving the environment. By working for a company that puts sustainability at the forefront of all it does, she can use her degree in a way that works for the environment!

James Burke lived in Texas most of his life, but moved to the North to follow his family. He has spent the past 12 years in HVAC residential/light commercial retrofit sales. When James moved to Maine, he started basement waterproofing/structural/foundation repair sales.

Both hires will be a strong addition to the Nyle team! We look forward to having them both be a part of the innovative work done at Nyle Water Heating Systems.

In addition to these hires, we have expanded our Inside Sales Team as well. This serves the purpose of better supporting our reps, and being able to more quickly answer our many inquiries about the coming e8.



Industry News

Company Enhancements

Over the past year Nyle has doubled manufacturing and office space, invested in modern manufacturing equipment and, perhaps the improvements we're most proud of are to employee betterment programs, such as health insurance, 401k matching and profit sharing.

A state of the art environmental chamber expands our testing capabilities and allows Nyle to more efficiently verify performance and capacity for regulatory bodies and our customers on our entire product line. Adjacent to the environmental chamber is a full-scale, automated, fluidized testing system which was designed and constructed in-house to meet the rigors of research & development and end-of-line production testing. The incredible insight these combined systems provide, at a level typically only available at national laboratories, will accelerate product development efforts and manufacturing improvement feedback loops. The investment in these systems and technologies is in service to you, our customer, ensuring that our people are delivering the quality and performance you expect in every unit we produce. See the photos below of our testing station and chamber!





Resources

Classes & Webinars

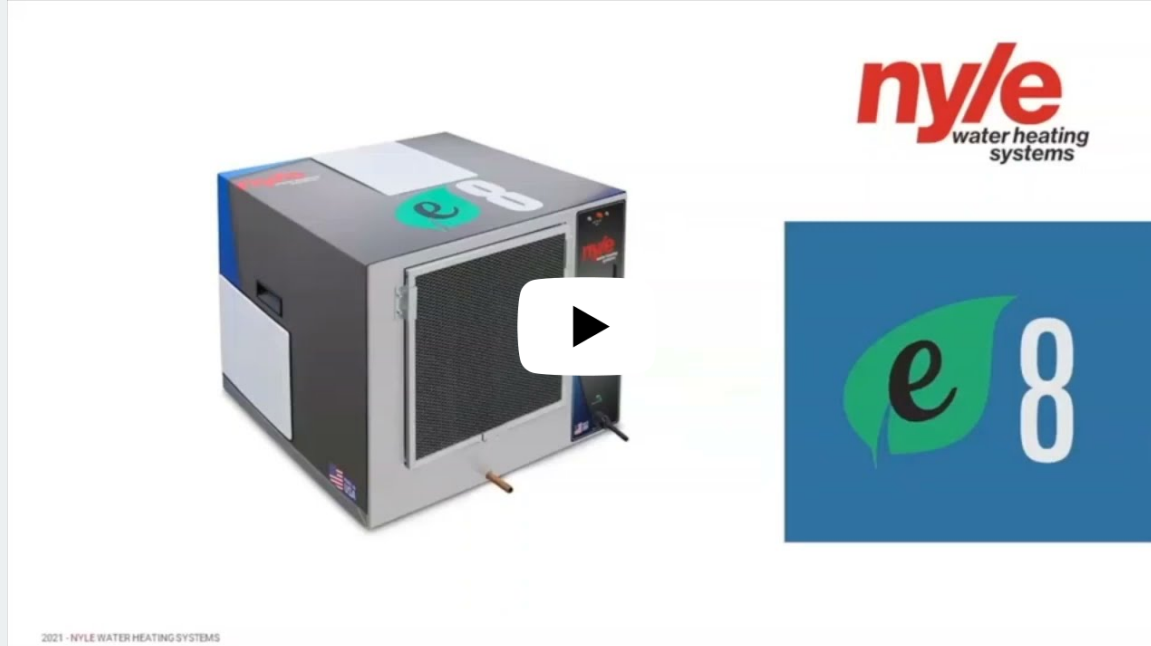
Want to learn more about commercial heat pump water heaters? Check out these free classes and webinars by Lighting Design Lab. From engineering, to design, to maintenance, these webinars will provide you with a wealth of knowledge.

[Register Here](#)

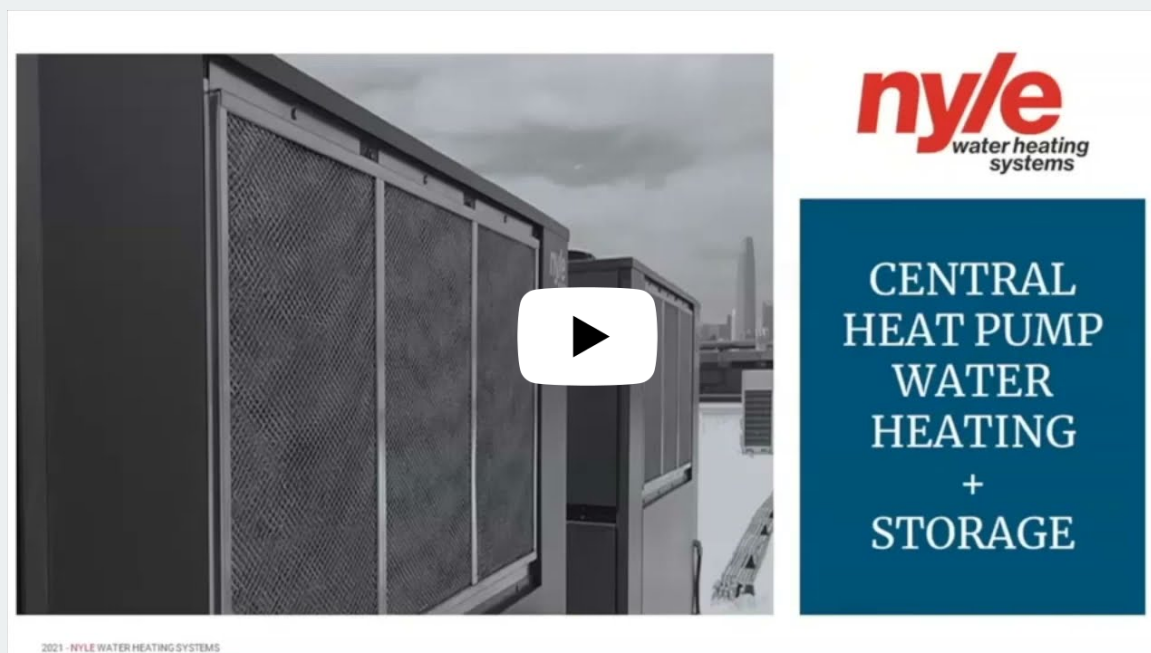
Nyle Presentations

On December 1, 2021, the President of Nyle Water Heating Systems, Ryan Hamilton presented during the Fall 2021 Energy Star Products Webinar Series. In his presentation, he highlights Nyle's newest creation, the e8, and all the benefits that accompany the new heat pump water heater. Part one of this presentation focuses on residential settings, as part two focuses on multifamily and commercial settings. Watch below!

Part 1: Residential Settings



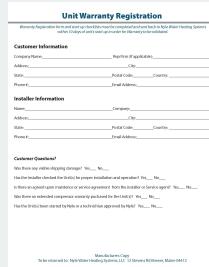
Part 2: Multifamily and Commercial Settings



2022 Hot Water Forum

This Forum takes place in Atlanta, Georgia, but it will be live-streamed as well. On Wednesday, March 23 from 9:00 am – 10:30 am, the president of Nyle Water Heating Systems, Ryan Hamilton, will be on a panel session titled "Residential 120V Heat Pump Water Heaters: The Manufacturers Perspective." In addition to this, Ryan Green, Director of Strategic Accounts, will be making a presentation on March 22 titled, "Load Shifting Opportunity Using DHW Heat Pumps."

[Click Here for More Information](#)



Submit your warranty

Life does not always go as planned, and despite our efforts for perfection - stuff happens! We have encountered instances lately where customers have had an issue with the water heating system they purchased but did not submit their Warranty Forms properly. That can make it challenging for us to address problems that may relate to the warranty. Please be sure to send in your warranty forms to Nyle **at the time of installation.**

[Click Here for Warranty Information](#)

Sizing is just a click away

If you need assistance with system design and/or component selection, we're here to help! Simply go to the resources page on our website, click on the "Request for System Sizing," fill in the information on the form, and click submit. Nyle will be in touch within 24 hours to assist.

[Click Here for Sizing Requests](#)

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