



# **ny/e** water heating systems

Energy Efficient Water Heater Systems

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# NYLE'S STORY

## ...SO FAR...

Nyle Water Heating Systems (NWHS) is an innovative, rapidly growing leader in the Heat Pump Water Heating industry. We develop, manufacture, market and sell heat pump water heaters for residential and large commercial applications such as multi-family and commercial buildings. NWHS is a subsidiary of Nyle Systems, a company with 40 years history in industrial heat pump applications ([www.nyle.com](http://www.nyle.com)). Nyle's manufacturing and design operations are in Brewer, Maine.

At Nyle, our mission is to enable Energy Efficiency and the Electrification of industrial and commercial processes, allowing our customers to transition towards a renewable, sustainable energy system.

We strive to:

- ▶ Be the best at what we do to offer our customers the best product for the best value.
- ▶ Create a workplace for our associates that gives opportunities to grow professionally and offers a safe place to work and provide for our families.
- ▶ Generate a good return on investment to our shareholders, proving that sustainability is a solid business proposition.

Since 2010, Nyle has doubled in size every 3-4 years. We plan to keep this growth going for the long-term to have a meaningful impact in transitioning our world onto a sustainable path for the next generations.





## Nyle Systems Stands For:

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Nyle has a culture that blends traditional values such as commitment to our customers and delivering quality and value, with forward-looking values like innovation and sustainability.

### **Quality**

Every product we build is the result of a design that combines the highest quality components and workmanship with the lowest overall ownership cost. We remove complexity in favor of durable, long-lasting parts sourced from partners in our supply chain. This approach and our commitment to value pricing and energy efficiency mean our customers receive the best products in the industry.



### ***Long-Term Relationships***

We look to build long-lasting relationships with our customers. These relationships allow us to understand our customers' needs better, allowing us to direct our innovative spirits to solve their problems. Our high percentage of repeat customers convince us every day that this is the right approach!

### ***Customer Support***

When you buy a Nyle Systems product, you are not only buying the equipment, but you are also buying the support. We define support as not just how the equipment works, but also how to best use it for your application. Contact us; we look forward to discussing your questions and suggestions.

### ***Innovation***

We've used innovative solutions to allow our heat pump water heating systems to operate at ideal conditions for your water heating needs. While such breakthroughs happen only once in a while, more incremental innovation takes place all the time. We use innovation of all kinds to stay at the forefront in this business and ultimately maintain a leading-edge value proposition to our customers.

### ***Made in the USA***

Nyle Systems' products are made and supported right here in the USA. Manufacturing in the USA is not always easy; we face competition in all of our markets and leverage it to stay sharp and improve our value proposition. As a result, we are growing rapidly. We are living proof that American ingenuity can thrive in today's global markets.

### ***Energy Efficiency***

Nyle's water heating systems substantially reduce energy costs when compared to conventional technologies. Leveraging this energy efficiency to reduce our customers' operating costs and increasing their competitive advantage is part of our culture.



## C-SERIES AIR SOURCE HEAT PUMP WATER HEATERS

Our C-Series is a high-efficiency air-to-water heat pump water heater that can be tailored to your needs in several ways. These units range in capacity from 60 MBH to 250 MBH, generating 77 to 550 gallons of hot water per hour.

In addition to heating water for potable or process water purposes, the C-Series provides cool air that can be used to offset air conditioning costs.

## ***Product Features***

- Heats water up to 160°F (72°C)
- Can be used as a preheater for higher temperature systems
- Coefficient of performance (COP) up to 5.0
- Heating capacity from 60,000 BTU to 250,000 BTU
- Cooling capacity from 50,000 BTU to 220,000 BTU
- Recovery rates from 77 to 550 gallons per hour
- Removes unwanted heat & humidity from the air
- Uses environmentally friendly R134a or R513a refrigerant
- Double-wall condenser for potable water heating
- BACnet compatible logic controller optional
- Integrated potable water approved pump

## ***Product Comparison Chart***

Model	Water Flow GPM	Heating Capacity Btu/h	Heating COP	Cooling Capacity Btu/h	Cooling COP	Combined COP	Dimensions (LxWxH)
C60A	13	63,225	5.05	48,425	4.13	9.18	64 ¼" x 32 ¾" x 34 ¾"
C90A	20	110,725	5.25	83,625	4.15	9.40	70 ¼" x 32 ¾" x 40 ¼"
C125A	28	144,275	4.93	108,500	3.98	8.91	84 ¾" x 37 ¼" x 36 ½"
C185A	40	224,675	5.33	172,375	4.33	9.66	72 ¾" x 45 ¼" x 43"
C250A	50	272,450	4.58	218,000	3.88	8.46	84 ½" x 54 ¾" x 70"



## C-SERIES WATER SOURCE HEAT PUMP WATER HEATERS

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Our C-Series is a high-efficiency water-to-water heat pump water heater that can be tailored to your needs in several ways. These units range in capacity from 60 MBH to 185 MBH, generating 50 to 500 gallons of hot water per hour.

While these units are heating water to 160°F, they also provide cool water on the source side that can be used for chiller water for air conditioning systems or process water for equipment.



## Product Features

- Heats water up to 160° F (72° C)
- Can be used as a preheater for higher temperature systems
- COP up to 5.0 generating significant savings
- Heating capacity from 60,000 BTU to 250,000 BTU
- Cooling capacity from 50,000 BTU to 220,000 BTU
- Recovery rates from 77 to 550 gallons per hour
- Absorbs heat from water sources, including process and groundwater.
- Uses environmentally friendly R134a or R513a refrigerant
- Double-wall condenser for potable water heating
- BACnet compatible logic controller optional
- Integrated potable water approved pump

## Product Comparison Chart

Model	Source Water Flow GPM	Heated Water Flow GPM	Heating Capacity Btu/h	Heating COP	Cooling Capacity Btu/h	Cooling COP	Combined COP	Dimensions (LxWxH)
C60W	9.6	13	57,423	4.80	43,025	3.83	8.63	38 ¼" x 26 ¼" x 28 ¾"
C90W	15	20	111,175	5.0	86,225	4.0	9.0	38 ¼" x 26 ¼" x 28 ¾"
C125W	20	25	146,792	5.28	110,775	4.28	9.56	49" x 31 ¼" x 38 ¼"
C185W	30	40	222,950	4.80	171,750	3.88	8.68	49" x 31 ¼" x 38 ¼"



## **C-SERIES MODULAR WATER SOURCE HEAT PUMP WATER HEATERS**

Our CWM Series is a high-efficiency, modular water-to-water heater.

These units range in heating capacity from 270MBH to over 2,000MBH generating from 323 to 2,584 gallons of hot water per hour.

While these units are heating water to 160°F (condenser side), they also cool the source water (evaporator side), which can be used for chiller water for air conditioning systems or process water for cooling equipment.

## Product Features

- Heats water up to 160° F (72° C)
- Use as a preheater for higher temperature systems
- Heating capacity from 270,000 BTU to > 2,000,000 BTU
- Cooling capacity from 210,000 BTU to > 1,686,000 BTU
- Recovery rates from 323 to 2,584 gallons per hour
- Absorbs heat from water sources, including return chiller water, process, and groundwater.
- Uses environmentally friendly R134a or R513a refrigerant
- Double-wall condenser for potable water heating
- BACnet compatible logic controller optional

## Product Comparison Chart

Model	Water Flow GPM	Heating Capacity Btu/h	Heating COP	Cooling Capacity Btu/h	Cooling COP	Combined COP	Dimensions (LxWxH)
C270WM	50	277,100	4.8	210,000	3.8	8.6	34 <sup>7</sup> / <sub>8</sub> " x 36 <sup>1</sup> / <sub>4</sub> " x 67 <sup>1</sup> / <sub>4</sub> "
C540WM	100	554,200	4.8	414,450	3.8	8.6	67 <sup>1</sup> / <sub>4</sub> " x 36 <sup>1</sup> / <sub>4</sub> " x 67 <sup>1</sup> / <sub>4</sub> "
C810WM	150	831,300	4.8	632,500	3.8	8.6	99 <sup>1</sup> / <sub>2</sub> " x 36 <sup>1</sup> / <sub>4</sub> " x 67 <sup>1</sup> / <sub>4</sub> "
C1080WM	200	1,108,400	4.8	843,350	3.8	8.6	131 <sup>3</sup> / <sub>4</sub> " x 36 <sup>1</sup> / <sub>4</sub> " x 67 <sup>1</sup> / <sub>4</sub> "
C1350WM	250	1,385,500	4.8	1,054,200	3.8	8.6	163 <sup>7</sup> / <sub>8</sub> " x 36 <sup>1</sup> / <sub>4</sub> " x 67 <sup>1</sup> / <sub>4</sub> "
C1620WM	300	1,662,600	4.8	1,265,000	3.8	8.6	Based on Configuration
C1890WM	350	1,939,700	4.8	1,475,600	3.8	8.6	Based on Configuration
C2160WM	400	2,216,800	4.8	1,725,600	3.8	8.6	Based on Configuration



## E-SERIES LOW GWP AIR SOURCE HEAT PUMP WATER HEATERS

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Our e-Series heat pump water heaters are specifically designed for residential, multi-family, commercial, and industrial domestic water heating applications in colder climates and tight spaces. Leveraging an environmentally friendly refrigerant that has a drastically reduced Global Warming Potential (GWP) compared to refrigerants traditionally found in this type of system, we have designed these heat pump water heaters for the future.



## ***Product Features***

- Heats water up to 160°F (72°C)
- Use as a preheater for higher temperature systems
- Heating capacity from 8,000 BTU to 360,000 BTU
- Removes unwanted heat & humidity from the air
- Uses environmentally friendly R513a refrigerant
- Double-wall condenser for potable water heating
- BACnet compatible logic controller optional
- Integrated potable water approved pump

## ***Product Comparison Chart***

Model	Nominal Heating Capacity (Btu/h)	Ambient Operating Temperatures	Max Water Temperature	Max Working Pressure	Dimensions (LxWxH)
E8	8,000	38°F-120°F	150°F	125 PSIG	21 ¾"x21 ½"x18 ¾"
E60	60,000	10°F - 120°F	160°F	150 PSIG	42" x34" x73 ¾"
E360	360,000	10°F - 120°F	160°F	150 PSIG	41" x72" x 89"

Being Nyle's newest creation, the e-series offers a flexible install in a variety of spaces! One of its greatest benefits is its rapid hot water delivery.



## THERMACHARGE TANKS

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Our ThermaCharge water tanks provide wide-range application for any hot water implementation. All tanks are designed for potable hot water storage, and are constructed with high-quality craftsmanship and materials. A unique port and temperature measurement configuration enhances the operation of the tanks when paired with a heat pump water heater.

### ***Product Features***

- Suitable for:
  - Single-Family Homes
  - Multi-Family Homes
  - Commercial Settings
  - Industrial Settings
- The tank will be constructed with one of the following:
  - Glass Lined
  - Cement Lined
  - Stainless Steel

### ***Product Comparison Chart***

Model	Capacity Range (Gallons)	Warranty	Lining
ThermaCharge+	119	5 Years	Glass
Round Glass Lined	80-200	5 Years	Glass
Round ASME	257-940	5 Years	Glass
Square ASME	1,250-2,500	5 Years	Glass
Stainless Steel	60-119	10 Years	N/A
Round Cement Lined	50-80	10 Years	Cement

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## **Contact Us!**



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