

Commercial Solutions



T H E L E A D E R I N C O N D E N S I N G T E C H N O L O G Y



North America
United States
Canada

Europe	
The Netherlands	Poland
UK	Spain
Ireland	Portugal
Denmark	Greece
Germany	Turkey

Asia & Oceania
China
Japan
New Zealand
Australia

Russia & the Commonwealth of Independent States	
Russia	Armenia
Ukraine	Georgia
Belarus	Kazakhstan
Azerbaijan	Uzbekistan

Navigator/Energy/Environment

Three words from which the company name was created

Mission

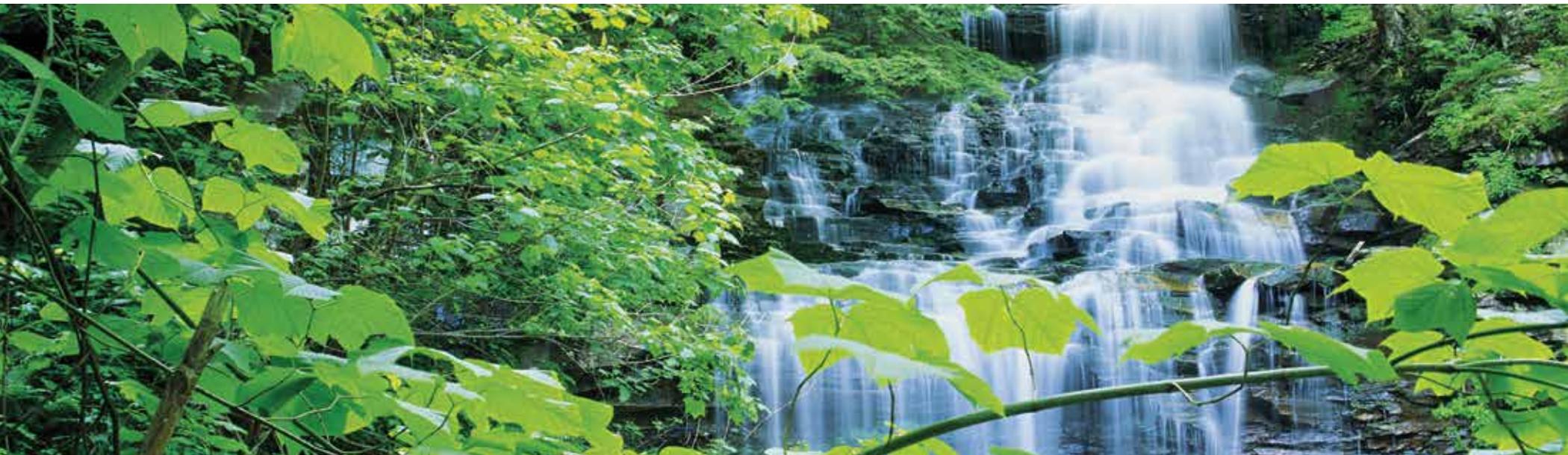
To provide customers with the ultimate comfortable living environment through energy efficient products by using innovative technology to create a healthier environment for our future generations.

Global vision

KD Navien was the first to adopt the EN (European) standard for all its boilers. This assures world-class quality in every country where our products are sold. Today KD Navien retains the largest market share for condensing gas water heaters in North America; is ranked top in technology patents; and as a leading boilermaker, is the largest exporter of boilers from Korea. KD Navien proudly exports that leadership in dependability, design, green technology, social responsibility and customer service to over 30 countries.

A world leader in energy efficient technology

KD Navien was an early leader in developing condensing technology for boilers and water heaters. Condensing technology maximizes energy by using unused heat emitted from flue gasses. As a result, energy consumption and green house gases are significantly reduced. Emission temperatures are much lower too.



Navien NPE-2 Series leads the industry with these innovations

1/2" gas pipe capabilities up to 24' reduces installation time for retrofit applications.

Dual stainless steel heat exchangers resist corrosion better than copper.

2" PVC venting up to 75'. No need to cut new chases, saving time and money.

NPE-2 condensing tankless water heaters have an efficiency rating of up to 0.96 UEF.



EZNav™ Multi-line control with built-in intuitive software.

Cascade capability up to 32 NPE-2 units.

Common vent capability up to 12 NPE-2 units.

Energy Star certification, meeting strict EPA efficiency specifications.

Advanced technology for a cleaner world

KD Navien's high efficiency and eco-friendly technology has reduced energy consumption by 20% and cut down the emissions of green house gases. Our NPE-2 condensing tankless gas water heaters provide an ultra-high efficiency rating up to 0.96 UEF.

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The following case histories describe how Navien tankless water heaters solved issues of reliability, durability, operating efficiency, energy and water conservation, installation challenges and customer support.

Navien products are installed daily across the United States, Canada and the world, in both commercial and residential locations, in new construction and retrofit applications.

This book, by way of introduction to our many solutions and satisfied customers, is a very small sampling of our capabilities. We invite you to visit us on an ongoing basis at Navieninc.com.



RESTAURANTS

Biaggi's Ristorante Italiano
Deer Park, IL



Four Navien NPE-240 units use cascading technology to assure a steady and dependable flow of hot water.

Biaggi's chain restaurant "Service" honoree, replaces tank system with four cascading Navien NPE units in overnight installation

Situation

Biaggi's Ristorante in Deer Park, Illinois, found their inefficient 200-gallon tank could barely keep up with dishwashing demand and they would replace tanks every two or three years.

Solution

Gregg Bickus of Bickus Plumbing convinced the owners to replace their old system with four cascaded Navien NPE-240 units. The Bickus crew started about a half hour after the restaurant closed and had continuous hot water up and running by 10:30 the next morning.

Benefits

Instant hot water supply: Unlike other tankless systems, the Navien NPE features a buffer tank and recirculating pump to provide an uninterrupted flow of hot water. This prevents a condition known as "cold water sandwich" which sends cold water before the heater reaches full temperature.

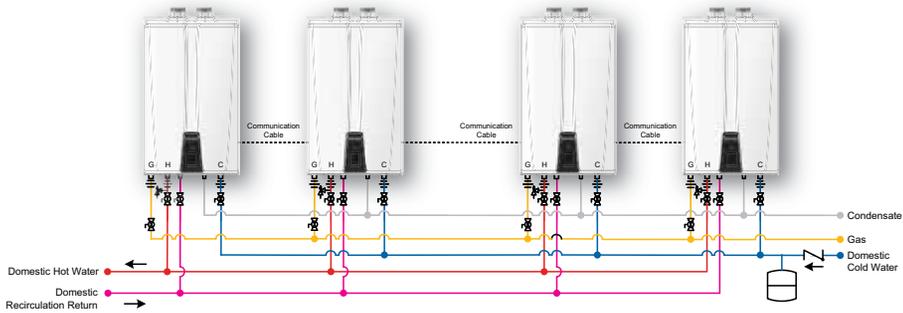
Greg commented, "We don't have to add any pumps on any of the piping. So this saves money and adds value."

Water conservation: Mark Brickey of Metropolitan Industries added, "The pump saves thousands of gallons of water a year. In some areas like the city of Chicago, their code says that you need water saving devices such as this pump. I've seen savings in excess of 12,000 gallons of water a year."

Reliability: The four NPE units at Biaggi's are linked together through cascading technology. Mark explained, "When a unit gets up to 80% capacity, then another one will come on to help meet the flow and demand required. They'll both ride up to about 80% and then the third one will come on. It keeps the flow more even so that there aren't any spikes or drops."

Durability: Stainless dual steel heat exchangers, a Navien exclusive, last longer than other tankless heaters with aluminum or copper heat exchangers. Stainless resists corrosion from hard water and Navien NPE units don't have to be cleaned as often other tankless heaters.

Faster, less expensive installation: One of the reasons Gregg's crew could replace the old system so quickly is the ability to use 2" PVC venting. Gregg said, "PVC is cheaper, available everywhere and all the plumbers use PVC fittings." Since the NPE uses 2" venting, PVC can be run in existing vent chases, saving many hours of installation time.



Four NPE Tankless External Recirculation Mode

This drawing is for demonstration purposes only. All CAD drawings and specifications may be found at <https://www.navieninc.com/specs>



Biaggi's offers an extensive menu of classic Italian dishes served in a family-friendly, casual environment.



"With the new NPE model we have had zero problems," Gregg Bickus (right) remarked. Mark Brickey of Navien distributor Metropolitan Industries adds, "With over 95% efficiency we use less fuel and what we use, we burn more efficiently."

Additional Navien restaurant projects:

- The Keg, Newmarket, ON, Canada
- Wendy's, Vancouver, BC, Canada
- McDonald's, Multiple Locations
- Moxies, Surrey, BC, Canada
- Little Restaurant, North Vancouver, BC, Canada
- GoodeWolfe Restaurant, Yaletown, BC, Canada
- Tim Hortons, Multiple Locations
- Red Robin, Multiple Locations
- Joe's Crab Shack, Sacramento, CA
- Chipotle Mexican Grill, Multiple Locations
- Applebee's, Multiple Locations
- Moxie's Restaurant, Langley, BC, Canada
- Bob's Steak and Chop House, Plano, TX
- Fudrucker's, Grapevine, TX
- Texas Roadhouse, Sugarland, TX
- Taco Bueno, Multiple Locations, TX
- El Fenix, Multiple Locations, TX
- Burger King, Multiple Locations
- Rock Fish Grill, Multiple Locations, TX
- Wendy's, Multiple Locations
- Taco Bell, Columbia City, IN
- Texas Roadhouse, Multiple Locations
- Velvet Taco, Charlotte, NC
- Chelo's Restaurant, Multiple Locations, RI
- Whiskey Creek Restaurant, Kokomo, IN
- 5 Guys Burgers and Fries, Multiple Locations
- Firehouse Subs, Multiple Locations
- Sonic, Multiple Locations

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Burton's Grill
Westford, MA



Ponderosa Steak House
Plymouth, IN



Roland Gonzales, Mechanical Supervisor for Pasadena Independent School District, led the charge to implement this new Navien tankless water heater system

High school football team scores by saving money on gas, water and electricity costs after switching to a Navien NPE-240 cascade system

Situation

The fieldhouse at Pasadena Memorial High School consists of 18 showers, 3 full bathrooms, 10 lavatory sinks and a clothes washer and dryer. All of these fixtures were struggling to get hot water from the old system that consisted of three inefficient and massive 120-gallon hybrid tank type water heaters that would constantly need repair, leak water, or just shut down completely. When the old system was working, it would continuously be heating water even when there was no need for it, causing unnecessary use of gas which led to higher utility bills.

Solution

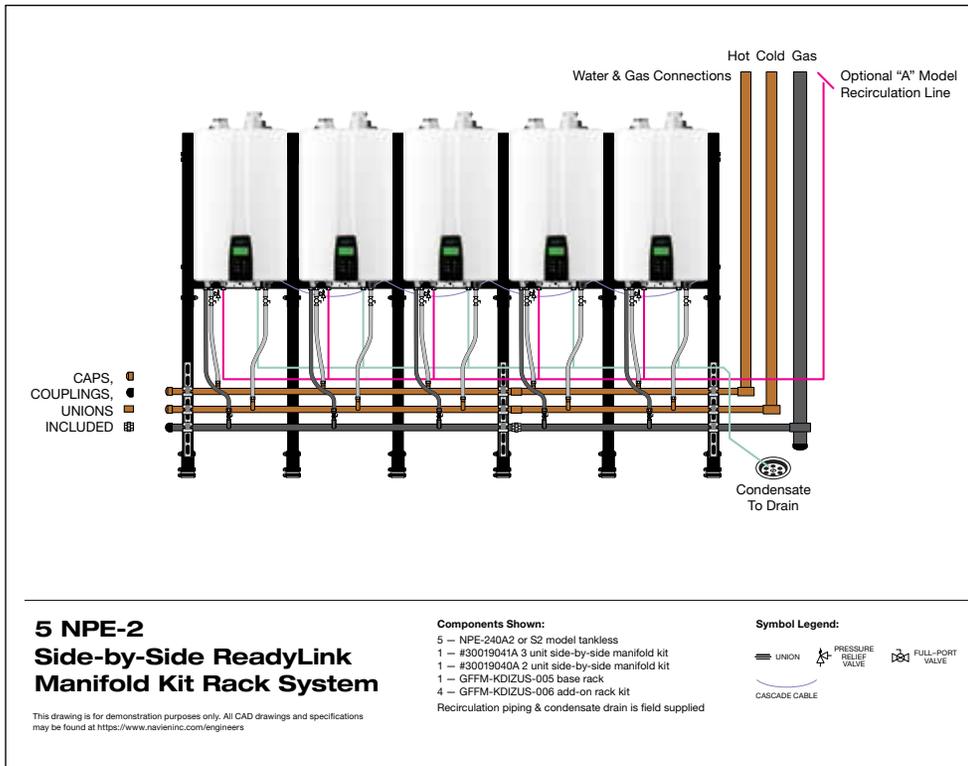
Roland Gonzales, Responsible Master Plumber and Maintenance Supervisor for Pasadena Independent School District knew that the best route was to replace the old technology with a new, more efficient and space-saving system that would benefit the district for many years to come. Gonzales worked with Bayside Plumbing and local Navien representatives to install a new tankless water heater system that consists of five compact Navien NPE-240A2 ultra high-efficiency condensing tankless water heaters. The five tankless water heaters were designed to supply endless hot water for all the showers and sinks in the fieldhouse to be running at the same time, and only when hot water is needed.

Benefits

Operating efficiency: The redundancy of the cascaded Navien tankless water heater system allows all the units to share the load and only provide the amount of hot water that is being demanded. If one unit is on and providing hot water, the next time there is a demand for hot water a different unit will turn on, improving the lifespan of each unit.

Space-saving and easy serviceability: The system is more accessible for service and operation due to the space-saving design of the tankless water heaters and the mounting on racks which freed up most of the room that was taken up by the old bulky tanks. Also, should one unit need to be serviced, the other four units will still be able to run and provide hot water for the facility.

Consistent temperatures and happy residents: With the new high-efficiency Navien tankless water system heaters, the students and coaches using the athletic fieldhouse now have the peace of mind that they will never run out of hot water when they need it most, and the district knows they're saving money on each utility bill that comes in.



Five NPE-2 Tankless Water Heaters were installed with the Ready-Link Manifold System.

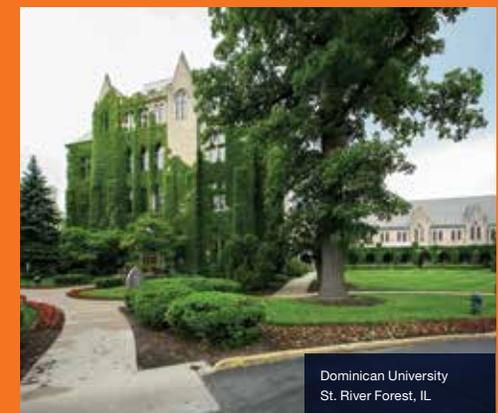


The fieldhouse at Pasadena ISD consists of 18 showers, 3 full bathrooms, 10 lavatory sinks and a clothes washer and dryer. The Navien on-demand tankless system was the cost effective solution.

Additional Navien school projects:

- Cape Fear Academy, Wilmington, NC
- UNC Wilmington, Wilmington, NC
- CMU Student Housing, Mt. Pleasant, MI
- CMU Football Stadium, Mt. Pleasant, MI
- Oakland University, Rochester, MI
- Hazel Park Schools, Hazel Park, MI
- Wastenaw Community College, Ann Arbor, MI
- Prairie High School, Cedar Rapids, IA
- Phillips Academy Andover, Andover, MA
- Clovis Unified School District, Clovis, CA
- Fresno Unified School District, Fresno, CA
- Langley High School, Langley, BC, Canada
- BCIT, Vancouver, BC, Canada
- Nait, Edmonton, AL, Canada
- Seneca College, King City, ON, Canada
- Sheridan College, Etobicoke, ON, Canada
- Simon Fraser Elementary, Vancouver, BC, Canada
- Resurrection Christian School, Loveland, CO
- Prairie PK-12, New Raymer, CO
- University of IL-Apt. Building, Urbana, IL
- Stanford-Staff Housing, Stanford, CA
- Hickory Ridge Elementary School, Harrisburg, NC
- Forest Park High School, Ferdinand, IN
- Benedictine High School, Cleveland, OH
- UNM Athletic Facility, Albuquerque, NM
- Clover School System, Clover, SC
- Lagrange High School Gym, Lagrange, GA
- Highland School Field House, Highland, AR
- St. John's Elementary, Lima, OH
- Lincoln Elementary, Lockport, NY
- Thomas Berry Hall - Berry College, Rome, GA
- Unc Charlotte Student Union, Charlotte, NC
- Lakehead University, Thunder Bay, ON, Canada
- Golden Valley School, Merced, CA
- Ridgecrest Elementary, Shoreline, WA
- Walker School, Ft Knox, KY

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Scott Reed, design engineer for Evansville Winnelson said, "It's great when you can show off your products in a nicely designed installation. We really appreciate the craftsmanship from Altstadt Plumbing."

The Courtyard by Marriott in Evansville, Indiana, uses seven Navien NPE-240 units to provide a steady supply of hot water for high and low demand

Situation

The Courtyard by Marriott has to supply hot water on demand to 119 rooms as well as a laundry facility and a small restaurant. Demand varies greatly depending on the number of guests and restaurant traffic, so the hotel needed a system to provide the flexibility of handling peak loads and off times.

Solution

Design engineer Scott Reed from Evansville Winnelson, the Navien distributor, designed a hot water supply system with seven Navien NPE-240 water heaters and three unheated tanks to circulate water to and from the Navien heaters. Joe Cox from Altstadt Plumbing worked with Scott to plan and install the system. The entire installation took less than two weeks.

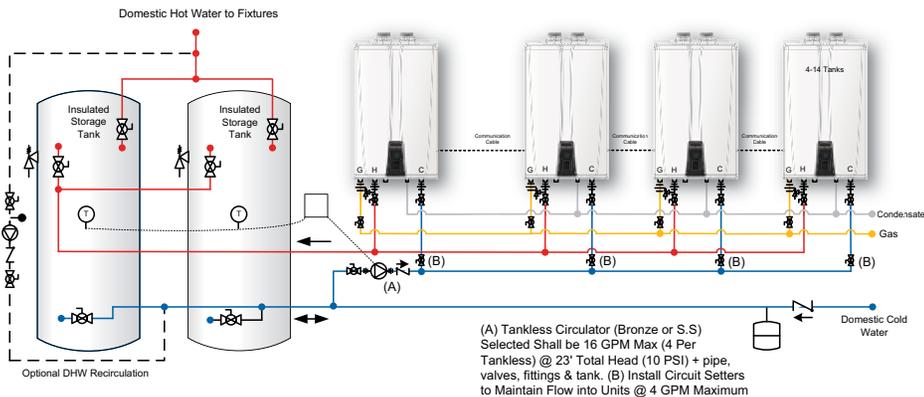
Benefits

Efficiency for high and low demand: Joe explained how they configured the water heating system. "You've got to consider how many rooms there are based on the fixtures and the amount of occupancy you can have at one time and then basing that on gallons per minute, get the size of the equipment needed to handle that load. But you don't want equipment running constantly when it's not needed. That's where Navien becomes a benefit because in times of low use they can run minimally or not run at all. Then in highest demand periods, all seven Navien's kick in."

Scott added, "We used unheated storage tanks to supply plenty of water to the Navien heaters. At any one point in time there's 119 gallons times three which is close to 360 gallons that can be drawn out for heating."

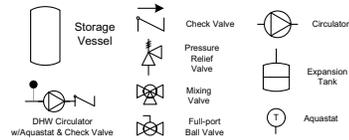
Easier venting installation: "On this installation we used schedule 40 PVC solid core for intake and CPVC schedule 80 for exhaust," Joe said.

Durability: Joe likes the long-term reliability of the NPE unit. "With the two stainless steel heat exchangers you don't have to worry about scaling and corrosion so much. And basically the warranties are great."



Multiple NPE with Multiple Storage Tanks to meet Flow/Temp Rise Requirements

This drawing is for demonstration purposes only. All CAD drawings and specifications may be found at <https://www.navieninc.com/specs>



The dining room is served by a kitchen that requires high volumes of hot water provided by the Navien system.

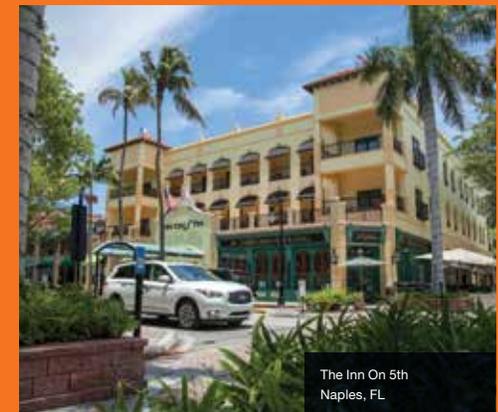


High demand applications such as the laundry room may require all seven NPE-240 units to run while supplying hot water to a guest shower may only take one.

Additional Navien hotel projects

- Hampton Inn, Multiple Locations
- Motel Grande Prairie, Grande Prairie, AB, Canada
- MGM Grand-Private Executive Houses, Las Vegas, NV
- Best Western, Multiple Locations
- The Lodge at Woodloch, Hawley, PA
- Sandman Signature Hotel, Multiple Locations, Canada
- Marriott, Multiple Locations
- White Oaks Resort, Niagara-On-The-Lake, ON, Canada
- Comfort Suites, Multiple Locations
- Holiday Inn, Multiple Locations
- Hilton Garden Inn, Multiple Locations
- Days Inn, Multiple Locations
- Pelican Bay, Naples, FL
- Westin, Chattanooga, TN
- Terrace Fishing Lodge, Terrace, BC, Canada
- Fairfield Inn, Multiple Locations
- Sheraton Downtown Asheville, Asheville, NC

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11 cascading Navien NPE-240A units provide endless hot water to the 137-bed facility, complete with commercial kitchen and laundry.

Pennsylvania nursing facility uses Navien and achieves golden reliability

Situation

The existing storage-type, electric water heating system at Golden Living had begun to fail. Temperature fluctuation was a problem, as well as the inability to meet peak demand. The 137-bed facility, complete with commercial kitchen and laundry, requires upward of 40-45 gallons per minute of hot water.

To make things more complicated, two different supply temperatures were needed. The various appliances in the kitchen, as well as the laundry, call for a temperature of 160 F. Even more importantly, Legionella bacteria can't survive at higher water temperatures. This is critical in an elder care facility where residents are more susceptible to Legionnaires' disease, the illness caused by the bacteria.

After learning that the existing water heater would need to remain in service until the new system was operational, the search narrowed to wall-hung condensing models, based on space constraints.

Solution

Over the course of a long week, a four-man KMB crew hung 11 of the 199,900 BTU/H Navien NPE series tankless water heaters in the basement mechanical room. The 6-inch PVC venting

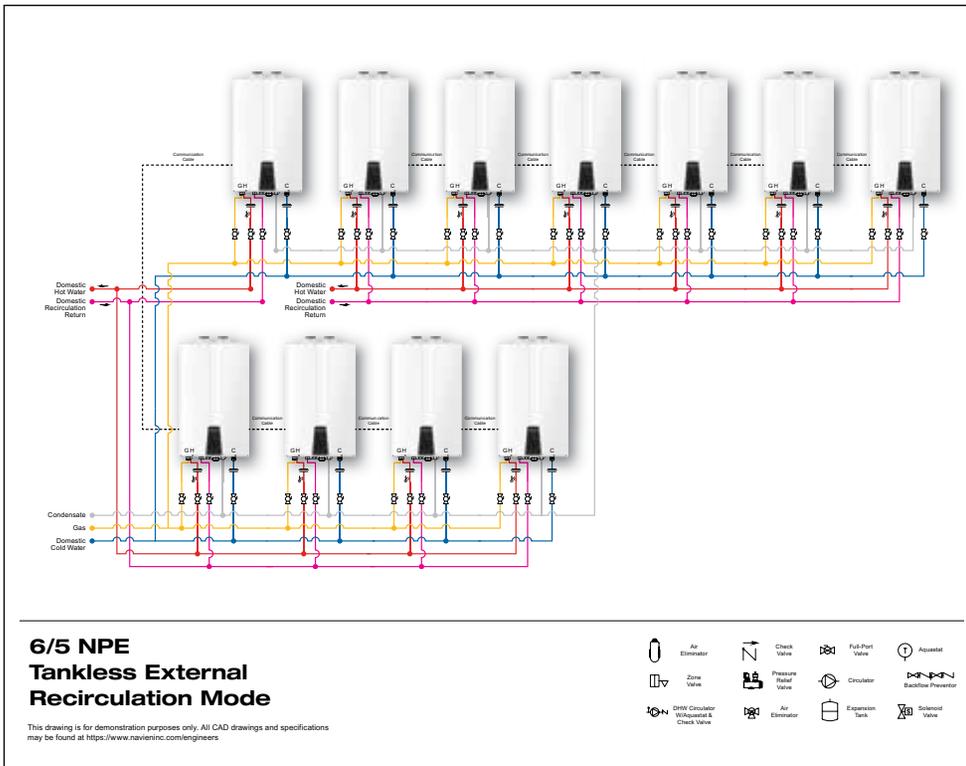
was installed even before gas lines or copper piping were added. Between a door and the electrical service, there was just enough room on the exterior wall for four penetrations.

Benefits

Efficiency, redundancy and reliability: The units feature ultra-high efficiency levels, as well as a 10:1 turndown. This means that, in addition to plenty of redundancy with 11 units, the multiple unit approach provides 55 stages of input for the high-temp loop, and the low-temp loop has 66. Dual stainless steel heat exchangers in the Navien NPE-240A offer a stronger resistance against corrosion.

Reduced space requirements: The wall-hung, space-saving design of the Navien NPE tankless water heaters allowed the KMB team to install the new system without having to disrupt the old system and cause a lengthy period with no hot water. With the Navien system now functional, the removal of the old electric storage heater has freed up a lot of floor space.

Consistent temperatures and happy residents: "The new system is quite awesome," said Mike Hetzel, who at the time was executive director at Golden Living. "The water temperature no longer fluctuates, and we haven't heard a single resident complaint. It's done everything that Kevin promised, and then some."



Kevin Berry from KMB had to adjust the temperature setting for each set of tankless water heaters to fit the two supply temperatures needed.



The team at KMB worked with APR Supply to size and install the 11-unit NPE tankless water heater system.

Additional Navien medical facility projects:

- Mirasol Senior Community, Loveland, CO
- Broadmoor Medical Lodge, Rockwall, TX
- Royal Glenora Club, Edmonton, AB, Canada
- McInain Surgical Arts, Huntsville, AL
- Batesville Nursing Home, Batesville, AR
- Plaza Healthcare, Scottsdale, AZ
- Kaiser, Richmond, CA
- Trinity Rehab Facility, Trinity, FL
- Physicians Urgent Care, Villia Rica, GA
- Centegra Hospital, Woodstock, IL
- Oasis Dementia Care, Evansville, IN
- Hickory Woods, Murray, KY
- Delhi Medical Clinic, Delhi, LA
- Heritage Assisted, Springfield, MA
- Waltonwood Assisted Living, Novi, MI
- Missouri Valley Hospital, Columbia, MO
- Southport Health And Rehab, Southport, NC
- Merc Pharmaceutical Building, Omaha, NE
- VA Hospital, Butler, PA
- River Park Senior Living, Little River, SC
- Edmonds Gastroenterology Knoxville, TN
- Dentist Office, San Antonio, TX
- Behive Nursing Home, Cedar City, UT
- Consulate Health Care Of Norfolk, Norfolk, VA
- Munson Funeral Home, Baldwin, WI
- Ohio Valley Health Care, Parkersburg, WV

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10 NPE tankless water heaters replaced a failing 1.9 million BTU/H boiler to indirect tank system.

Meat packing company saves big on space and utilities with Navien

Situation:

Momence Packing in Momence, IL uses over 600,000 gallons of water each month and their old hot water system was not able to keep up with the demand at an efficient rate. The 1.9 million BTU/H boiler to indirect tank system ran at .60 efficiency and consistently experienced bursting pipes, failing electronics and drops in temperature. A cramped boiler room and oversized boiler made the unit difficult to work on for Utilities Lead, Jason Osborn and his team.

Solution:

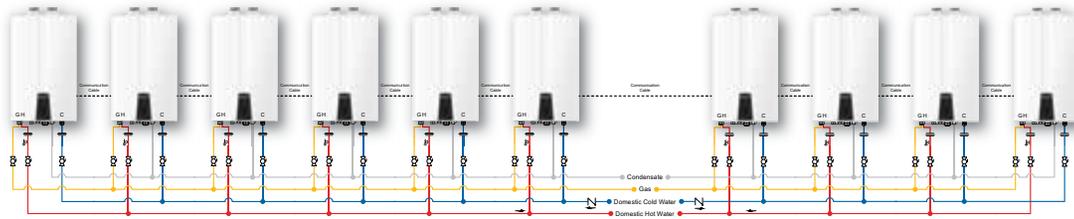
Zachary Hiser of Ron's Plumbing and Heating recommended a 10-unit NPE tankless water heater system, cascaded and common vented, for a more efficient water heating experience. The space-saving NPE tankless water heaters were wall-hung to free up floor space in the boiler room and allow easy access to each unit.

Benefits:

High efficiency and cost savings: The NPE series tankless water heaters offer an ultra-high efficiency rating, well over the 0.60 UEF that the old boiler system had. This boost of efficiency led to a \$700/month savings on utilities costs for Momence Packing.

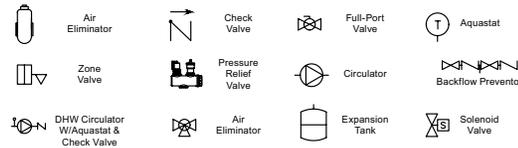
Redundancy and reliability: "Our Navien system has been much more reliable than our old boiler, and we maintain much better temperature on our water," said Osborn. The built-in redundancy of 10 NPE tankless water heaters allows the high demand of water to be shared across all the units, which helps to maintain consistent temperature, improves life longevity of the system, and continues to provide hot water should a unit need maintenance.

Space-saving and easy serviceability: The wall-hung NPE tankless water heaters freed up tons of space in the boiler room and allowed easy access to each unit for service and maintenance. Hiser commented, "With the old system, everything was so jam packed that they couldn't work on the boiler or any other objects within the boiler room. With the new Navien system mounted on the wall, they are in love with the space that has opened up and allowed them to work on items in the boiler room."



10 NPE Tankless Water Heaters

This drawing is for demonstration purposes only. All CAD drawings and specifications may be found at <https://www.navieninc.com/engineers>



Momence Packing uses over 600,000 gallons of water a month and has seen a savings of \$700 a month on utilities since switching to Navien NPE tankless water heaters.



“With the new Navien system mounted on the wall, they are in love with the space that has opened up and allowed them to work on items in the boiler room,” said Zachary Hiser of Ron’s Plumbing and Heating.

Additional Navien industrial projects:

- Kasco Pharmaceuticals, Detroit, MI
- Raytheon, Woburn, MA
- City of Calgary Water Treatment Plant, Calgary, AB, Canada
- Water Treatment Plant, Calgary, AB, Canada
- Navy Base, Port Hueneme, CA
- Kellogg’s Plant, Blue Anchor, NJ
- Altec, Lexington, KY
- Buffalo Trace Distillery, Lexington, KY
- P-Fab Facility, Saginaw, MI
- Bender Farm, Bellglade, FL
- Corralles Dairy, Roswell, NM
- Pepsi Bottling Plant, Detroit, MI
- Frontgate Manufacturing, West Chester, OH
- Cincinnati Industrial, Cincinnati, OH
- Qualcomm Manufacturing, Salem, VA
- Decatur Dairy Operation, Decatur, IN
- Carson Oil, Portland, OR
- Solar Turbines, Dallas, TX
- Sanderson Farms, Hazelhurst, MS
- Rocky Mountain Agronomics Project, Burley, ID
- Coca-Cola Factory, Cincinnati, OH
- Gmit, Chandler, AZ
- Jarden Farms, Bunker Hill, IL
- Ford Meter Box, Wabash, IN
- Moraine Vineyards, Baroda, MI
- Ab Concrete, Edmonton, AB, Canada
- Best Made Food Processing, River Falls, WI
- Truck Fill, Fort St. John, BC
- RV Sales Distribution, Indianapolis, IN
- London Food Processing Plant, London, ON, Canada
- Coggins Farm, Valdosta, GA
- Qulified Refrigeration, Omaha, NE
- Uncle Charley’S Sausage, Vandergrift, PA
- Garrett Dairy Farm, Garrett, IN
- La Espanola Meats, Inc., Harbor City, CA
- Cal-Maine - Egg Washing Plant, Bafoon, SC
- Trans-Mate Incorporated, North Billerica, MA
- Dairy Farm, Gainesville, FL
- Stemler Design Build, Louisville, KY
- Dairy Farm, Thorndell, TX
- Zinetti Food Products, Surrey, BC, Canada
- E Carbon, St. Mary, PA
- Arrent Machinery, Portland, OR
- Aptheca Plant, Gainesville, GA
- Emergency Station Allor, Brighton, MI
- Norwalk Concrete, Sandusky, OH
- Milking Parlor, Berne, IN
- Dana Axle Plant, Fort Wayne, IN
- Kombucha Tea Factory, Austin, TX
- Sesame Court-Commercial, Vancouver, BC, Canada
- Gold Mine Process (Gold Lake), Cochrane, ON, Canada
- Illini Precast Concrete, Sellersburg, IN
- A&R Logistics, Jeffersonville, IN

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Randall Yazzie and Adrian Greigo of Bosque Heating and Cooling set the Navien tankless water heaters to 160 Degrees F to serve the vat cleaning needs of Gruet Winery.

Expanding winery in New Mexico cuts tank filter time in half with efficient Navien units

Situation

With 43 wine vats, or holding tanks, cleaning consumed a lot of time and even more hot water. The tanks range in size from 10,000 to 60,000 gallons. The sanitation process included the use of an electric “hot cart” or mobile hot water production system. The unit was capable of providing only 10 GPM of 160 degree water, meaning that it took Gruet employees the better part of two days to sanitize a single tank. “Our production capacity was limited by our ability to clean the stainless steel tanks in a timely manner,” said Larry Rodriguez, Gruet production supervisor and maintenance manager. “The faster we can sanitize the tanks between batches, the more wine we can produce. Our supply of hot water was the biggest factor holding us back. We need about 1,200 gallons of hot water each day.”

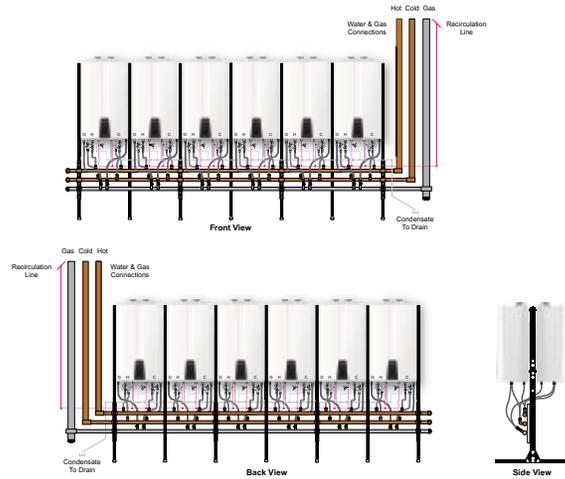
Solution

Gruet contacted Bosque Heating and Cooling, a local company they’d used on various occasion in the past. After several discussions about potential solutions, Gruet and Bosque agreed to use 12 Navien NPE-240S series tankless water heaters for two main reasons: redundancy, and physical space within the building. Navien Ready-Link® Manifold Systems were used to simplify the installation and save space.

Benefits

Abundant flow and consistent temperature: “Getting and keeping the water up to the correct temperature is critical for us. We’ve seen a tremendous improvement since the first day these came online. We’re able to sanitize the tanks much faster and more thoroughly. The new Navien system even allows us to use new, larger wine filters. We can now filter a tank of wine in six hours, versus the 14 hours it used to take,” Rodriguez said.

Space savings and ease-of-installation: the 12-unit system was installed on an elevated catwalk in the filtering room using Navien Ready-Link Racks that allowed the units to be installed back-to-back. This kept the water heaters off the floor and out of harm’s way, but also allowed Gruet to utilize the space under the system for wine filtration equipment. “Multiple-unit installations are very common on commercial jobs like this one, so being able to cascade the units is a big advantage. You simply run Navien’s cascade cable from one unit to the next. The cascading feature, the rack and the manifold system make an installation like this one a breeze,” said Carlos Griego, CEO at Bosque.



12 NPE Back-to-Back RL Manifold Kit Rack System

This drawing is for demonstration purposes only. All CAD drawings and specifications may be found at <https://www.navieninc.com/engineers>

Components Shown:
 12 — NPE-240 S model tankless
 3 — #30019042A 4 unit back-to-back manifold kits
 1 — GFFM-KDIZUS-005 base rack
 5 — GFFM-KDIZUS-006 add-on rack kits
 Recirculation piping & condensate drain is field supplied



Bosque and Gruet worked with Dave Modica of WinSupply Albuquerque to size and prepare the Navien tankless installation.



The new Navien systems provides consistent temperature that allows Gruet to sanitize faster and produce more wine.

Additional Navien leisure projects:

- Proud Lake State Park, Wixom, MI
- Macatawa State Park, Holland, MI
- Plymouth Ice Arena, Plymouth, MI
- Moncton TriPlex, Moncton, NB, Canada
- Municipal City Pool and Gym, Las Vegas, CA
- Body Works Fitness, Lubbock, TX
- Knockouts, Multiple Locations, TX
- Renaissance Point YMCA, Fort Wayne, IN
- Lennonheads Salon And Spa, Worthington, OH
- Lipski Project, Englewood Cliffs, NJ
- Minor League Baseball Stadium, Utica, MI
- Gangnam Spa, Houston, TX
- South Padre Island RV Resort, South Padre Island, TX
- Indian Wells Country Club, Indian Wells, CA
- Schlitterban, South Padre, TX
- Olympic Tennis Center, Columbus, OH
- Maria Stein Salon, Lima, OH
- G'S Salon, Orlando, FL
- Planet Fitness, Multiple Locations
- Hockey Rink, Austin, TX
- Fox Hollow Golf And Country Club, Trinity, FL
- Fox Fire County Club, Naples, FL
- Jeff Jordan Wrestling Gym, Springfield, OH
- UFC Gym, Lombard, IL
- New Albany Country Club, New Albany, OH
- Milford Practice Facility, Milford, OH
- Salon Lofts, Jacksonville, FL
- Irwin Country Club, Irwin, PA
- Yoga, Vancouver, BC, Canada
- YMCA - Multiple Locations
- Crunch Fitness, Sarasota, FL
- Tampabay Lightning Training Facility, Tampa, FL
- Top Golf, Brandon, FL
- Newark Symphony Hall, Newark, NJ
- Hammam Spa, Toronto, ON, Canada
- Charter Fitness, Multiple Locations
- 24 Hour Fitness, Lakewood, CO
- Giants Minor League Baseball Facility, Scottsdale, AZ

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Pawtucket Country Club,
Pawtucket, RI

MULTI-FAMILY

Westmore Condominiums
Houston, TX



Scott Alexander, Superintendent and Daren Strutton, President and CEO at Strutton Plumbing proudly stand next to the eight NPE-A2 units that they installed on the roof of the Westmore complex.

Westmore condominiums uses Navien technology to provide year-round water heating efficiency

Situation

The Westmore mid-rise luxury condominiums is a seven story building that is located in Houston, Texas. This housing complex has thirty-three units with each unit having two bedrooms and two and a half baths. It is crucial to have a reliable and efficient hot water system in order to make sure the people living at Westmore are comfortable and stress-free. In addition, an efficient hot water system will benefit Westmore by reducing their energy costs and saving space.

Solution

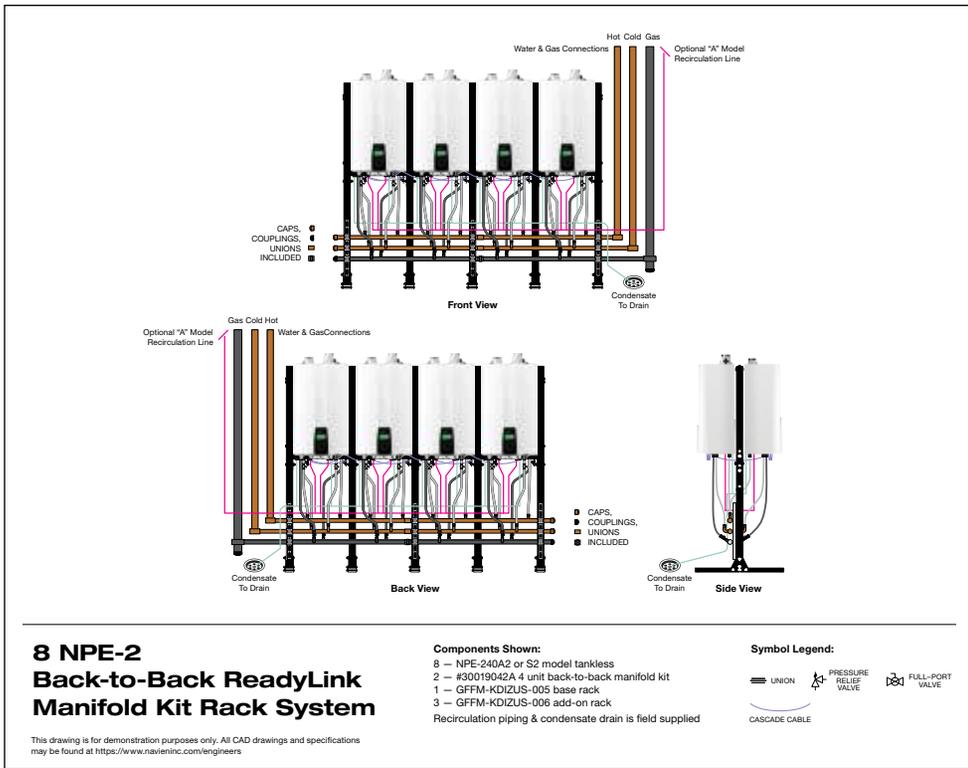
Daren Strutton, President and CEO and Scott Alexander, Superintendent at Strutton Plumbing Company installed eight Navien NPE-A2 ultra high-efficiency condensing tankless water heaters onto the roof of the Westmore complex. These eight NPE-A2 units were mounted on a ReadyLink Manifold system which provided a space saving solution. The eight tankless water heaters were designed to supply endless hot water to all of the condo units at Westmore.

Benefits

Consistent hot water supply: Scott Alexander said, "The tenants here don't have to worry about losing any hot water. The NPE-A2 units stay online." Westmore residents can live worry free as they will always have consistent water temperatures whenever they need it.

Operating efficiency: Scott Alexander continues, "A big benefit of this system is redundancy. The units will share the work load and they will last longer. If one unit goes out then the other units will pick up the slack." The NPE-A2 units work together in order to remain efficient and reliable.

Utility savings: The redundancy, combined with durable stainless-steel heat exchangers and ultra-high efficiency of the NPE-A2 units provides instant utility savings and peace of mind for the future.



Westmore Midrise Luxury Condominiums is a seven story building with thirty-three units. Each unit has two bedrooms and two and half baths.

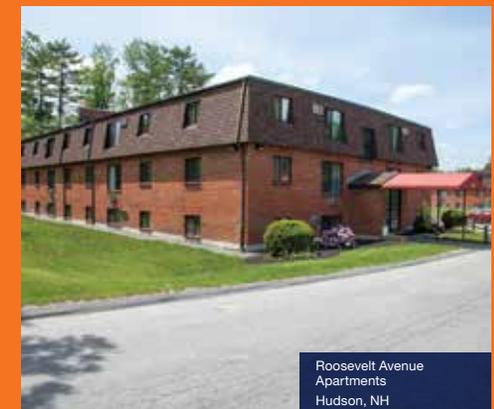


Eight Navien NPE-A2 Tankless Water Heaters were installed with the Ready-Link Manifold System.

Additional Navien multi-family projects:

- The Mustard Seed Low Income Transitional Housing, Calgary, AB, Canada
- Golden Age Towers, North Bay, ON, Canada
- University of Illinois Apartment Building, Urbana-Champaign, IL
- Arbor Creek Apts, Elk Grove, CA
- Paseo Santa Barbara, Santa Barbara, CA
- Paseo Leuz, Santa Barbara, CA
- The Hacienda's-150 Apts, Salinas, CA
- Roger's Walk-55+ Community, Mt. Laurel, NJ
- Allison Apartments, Marlton, NJ
- Sesame Court-Apt., Vancouver, BC, Canada
- Cornerstone, Langley, BC, Canada
- Widner Properties, Midland/Odessa, TX
- Fort Wayne Housing Authority Senior Apartments, Fort Wayne, IN
- Kunkel Square Apartments, Evansville, IN
- Willow Glenn Assisted Living, New Castle, IN
- Enterprise Apartments, Muncie, IN
- Clawson Apartments, Clawson, MI
- Colonial Village, Holiday, UT
- Tsawwassen Tsm, Richmond, BC, Canada
- Buffalo Run, Commerce City, CO
- Sheets Tri-Plex, Fort Wayne, IN
- Dismas Charities, Louisville, KY
- Bella Vista Apartments, Phoenix, AZ
- Ocean Reef Towers, Boca Raton, FL
- Camden Properties, Fairfax, VA

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OTHERS

Village of Worth Public Works Department
Worth, IL



The Public Works Department for the Village of Worth, Illinois, washes as many as five trucks a day from their 30-truck fleet.

Navien delivers steady stream of hot water to wash as many as five big trucks a day, plus supply all other hot water needs

Situation

The Village of Worth, Illinois, was looking to reduce energy costs and still supply enough hot water for their utility facility. The village maintains a fleet of 30 trucks and needs to wash as many as five a day, plus supply plenty of hot water to showers and wash up sinks for the 10-man work crew. Their old 80-gallon water heater was not up the job.

Solution

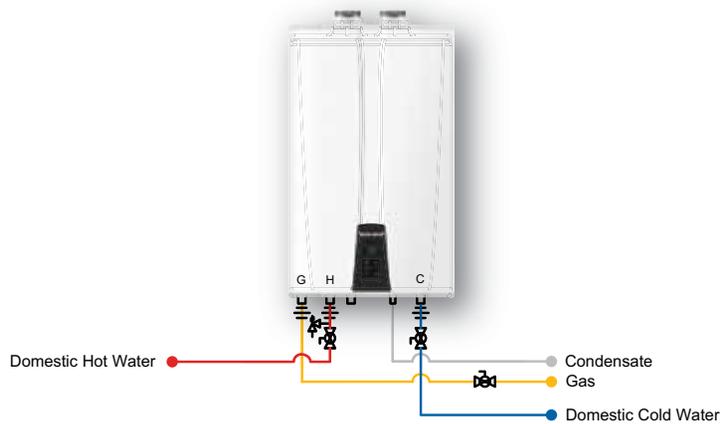
Wayne Demonbreun, Superintendent of Public Works at the Village of Worth, researched alternatives. When he studied Navien tankless heaters, he liked the efficiency and ability to supply all the hot water they needed, but only what they needed. Working with Mark Brickey of Metropolitan Industries, they replaced their outdated system with a Navien NPE-240A.

Benefits

Energy savings: Wayne told us, "We looked at this Navien unit simply for the purpose of saving money on gas. Our gas bill most likely would go down with this unit because it doesn't have to work all the time. That was valuable to the Village. So far, it's been working out very nicely and it accommodates our hot water use very well."

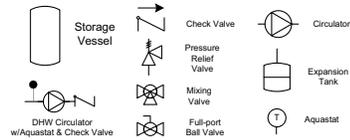
Steady supply of hot water: "The Navien unit is designed to give us hot water when we need it as long as we need it, and it does that," Wayne said. "At our facility, it accommodates every part of the hot water needs for a regular public works department of our size. We can wash trucks at about the same rate as with the 80-gallon heater, but now we don't run out of hot water. It's pretty much a smart machine. It doesn't keep the water hot when you're not using it. You have an output of so many degrees at the end of that hose no matter what."

Quiet, cool operation: The Navien system runs quieter than traditional tank water heaters. "You don't even hear them run," said Wayne. "Another thing," he added, "they run a lot cooler because they are so efficient. That's a real advantage in the summer when we're trying to keep the room cooler."



One NPE Tankless Internal Recirculation Mode

This drawing is for demonstration purposes only. All CAD drawings and specifications may be found at <https://www.navieninc.com/specs>



Municipal governments struggle to manage DPW costs. The Navien system helps the Village of Worth supply all the hot water they need at the most affordable cost.



The Navien system is also used to supply hot water to wash up sinks and showers for the DPW crew.

Additional Navien commercial projects:

- Alvin Fire Department, Alvin, TX
- Napoleon Township Hall, Napoleon, MI
- Nicholas Air Comporate HQ, Oxford, MS
- Waukegan Park District, Waukegan, IL
- O&H Danish Bakery, Racine, WI
- Opa-Sktn, Saskatoon, SK
- Dekalb County Jail, Auburn, IN
- Austin Transitional Center, Austin, TX
- River Valley Campground Laundry, Cherokee, NC
- Dairy Barn, Lloydminster County, AB
- Burton Fire Station, Burton, MI
- Car Wash Bays, Grande Prairie, AL, Canada
- Hy-Vee Grocery Store, Ankeny, IA
- Bryan Federal Prison, Bryan, TX
- Jefferson County Jail, Beaumont, TX
- Pilot Travel Center / Truck Stop, Fort Wayne, IN
- Ft Knox Admin Building, Ft Knox, KY
- Mike's Truck Wash, Lebanon, IN
- Verizon , Tyrone, FL
- Poarch Band Of Creek Indians, Atmore, AL
- Emerson Nice Brewery, Owasso, OK
- Princeton Fire, Princeton, NJ
- Camp Barny For Kids, Gainesville, GA
- Loves Truck Stop, Not Reported, TX
- Remodeling Concepts, Stafford, TX
- Salvation Army, Dallas, TX
- St. Xaivers Bee Farm, St. Xavier, MT
- Clear Lake II, Clear Lake, TX
- Cleveland Airport Hanger, Cleveland, TN
- Southside Church Newnan, Newnan, GA
- Toyota Dealership, Edmonton, AB
- Summit Gm, Fort McMurray, AB
- Stevenson Ti, Denver, CO
- Cobb Hatchery, Cleveland , GA
- Stevenson Ti, Boulder , CO
- Pizza Dough, Columbus, OH
- FCC Prison, Beaumont, TX
- Fedex, Mobile, AL
- Jensen P&H, Lake Mills, WI
- Scottsdale Airpark New Hangar, Scottsdale , AZ
- Strathmore Arena, Strathmore, AB, Canada
- Security Central Storage, Knoxville, TN
- Johnstone Supply Rapid City, Rapid City, SD
- Kennelton Camp, Shaver Lake, CA
- Golden Mile Flour Mill, Brantford, ON
- Klenk Trucking, Ashley, IN
- Mesker Park Zoo, Evansville, IN
- MN Dot Courtland Truck Center, Courtland, MN
- Passport Foods, Ontario, CA
- Camp Kon-O-Kwee, Lake Mead, OH
- Centerville Library, Centerville, MA
- Guru Nanak Sikh Gurdwara Temple, Surrey, BC, Canada
- Stripes Convenience Stores, Multiple Locations, TX

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Global technology. Local solutions.

Contact your local Navien representative to learn how Navien tankless technology is bringing the most energy efficient hot water to your customer's business and/or residence.

To learn more visit: Navieninc.com/commercial



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T H E L E A D E R I N C O N D E N S I N G T E C H N O L O G Y