

navien
 Condensing **98%**
 Tankless Gas Water Heaters



Distributor:

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KD navien

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Save 30% of the cost,
 up to \$1,500!



The Ultimate in Energy Efficiency with Hi-Tech Comfort

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Tankless Water Heaters

Navien Condensing 98%

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Why Navien?



With Navien Condensing 98%, you get the best of both worlds: the Best Value and "Ultra Condensing Efficiency," which offers substantial savings and contributes to a green-friendly environment. Plus, the installation and venting processes are easy, cost effective, and Navien's products are simply the best in quality and performance.

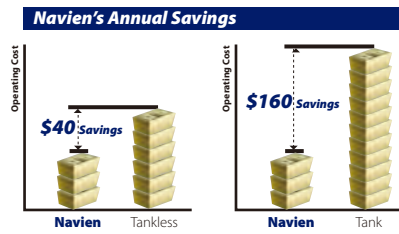


Ultra Condensing Efficiency

Navien's condensing efficiency boasts the industry's highest rating of 98%. Customers can take advantage of the low annual operating costs and receive the best value and payback, compared with conventional tankless or tank-type water heaters.

Navien's Condensing Tankless offers the highest gallons-per-minute (GPM) when comparing input BTUs.

* Based on DOE operating cost and AGA Sept/07 Natural gas price.



Extended Lifecycle

Navien utilizes dual stainless steel heat exchangers, providing 3.8 to 4.5 times longer life-expectancy and erosion resistance over the copper heat exchangers used in other brands.

Navien's stainless steel heat exchangers operate with relatively low water temperatures, minimizing damage from hard water conditions and maintains high efficiency levels.



Endless Hot Water Supply

Navien Condensing tankless heaters offer safety and an unlimited amount of hot water supply. Consumers love the endless supply of hot, soothing water!

Easily Installed PVC Venting

The high efficiency of Navien's Condensing Tankless results in lower exhaust temperatures, allowing for the use of 3" PVC.

- PVC venting offers significant savings in cost and makes installation a breeze.
- Three-inch PVC venting up to 100ft with a maximum of 6 elbows*.

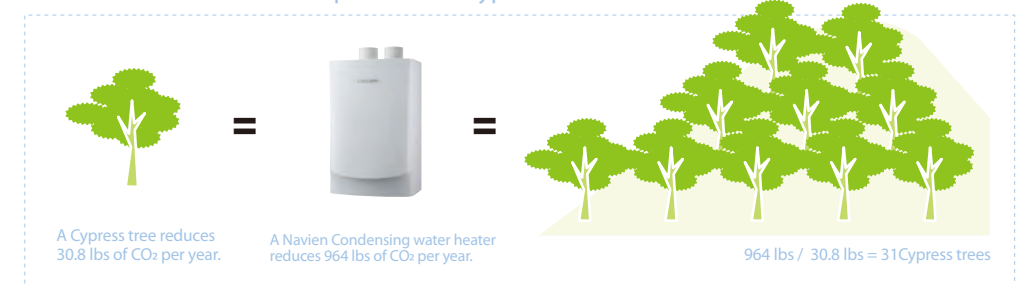
* Each elbow deduct 5' off of venting length

Eco Navien Technology

- Navien's condensing technology uses less gas than conventional water heaters, resulting in less CO₂ Emissions.
- The Eco Pre-mixed Burner dramatically reduces NO_x emission levels, making it the lowest emission levels in the industry.
- Navien Condensing 98% has become more eco-friendly by dissolving NO_x in condensed water to neutralize the alkaline sewage in your house, improving water quality.



Each Navien Unit Installed Equates to 31 Cypress Trees.



A Navien Condensing water heater reduces up to 964 lbs of CO₂ per year compared to a conventional water heater, and up to 324 lbs of CO₂ per year compared to a tankless water heater.

Optional Circulation Pump and Mini Buffer Tank (Model "A")

- No minimum flow rate required with optional internal circulation mode
- Minimize hot/cold/hot stacking, the so called "Cold Water Sandwich"
- Save installation cost with optional circulation pump and buffer tank

* More than one water heaters in Ready-Link® System are with "A" models, the remaining are "Non-A" models. Combining multiple "A" or/and multiple "Non-A" models with "A" create a hot water circulating cascade system, resulting in water conservation and money savings.

Core Components

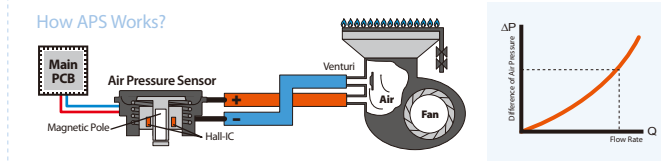
Advanced Technology

1 Enhanced Safety with Dual Microprocessors

Navien's two microprocessors offer better control and safer operation by continuously cross monitoring each other's performance to assure proper operation at all times. These two microprocessors not only control the burner for ideal combustion but also maintain the steady hot water temperature.

2 Optimal and Stable Combustion with APS and GPS

APS (Air Pressure Sensor) maximizes combustion efficiency by sensing and controlling the air required for optimal combustion even in high-wind locations and installations with long vent runs.



GPS (Gas Pressure Sensor) offers stable combustion by sensing gas pressure and controlling the fan speed to maintain optimal combustion, even under a wide range of gas-pressure changes.

3 Three-phased, Pre-Mixed Burner

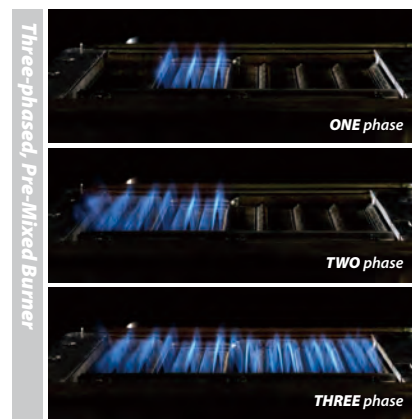
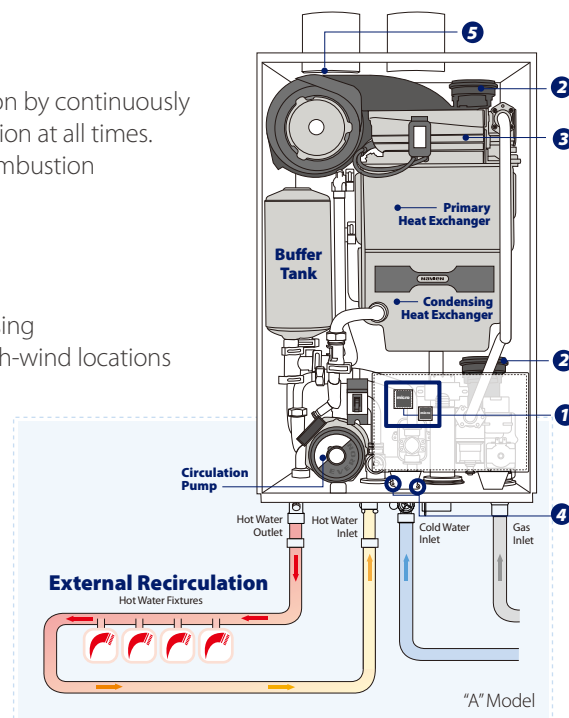
Controls flame by pre-mixing optimal ratio of gas and air before combustion, reducing emissions and enhancing heat efficiency.

4 Leak Detector

Built-in leak detector prevents damage to water heater as well as personal property.

5 Air Intake Filter

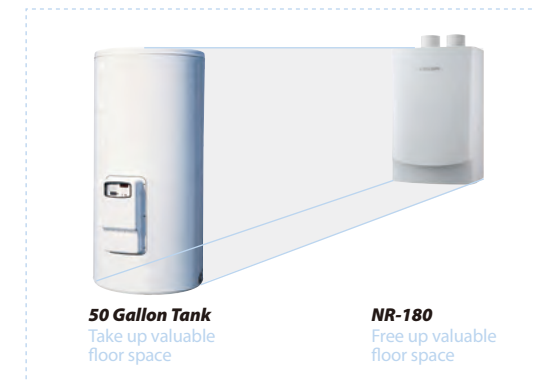
An air intake filter prevents foreign substances, such as dust or insects, from entering the system, freeing the burner from elements that would normally cause unstable combustion or energy inefficiency.



Space Saving Design

Navien's condensing tankless water heater occupies approximately 90% less space than a tank-type water heater.

In addition, a Navien mounts on your wall freeing up valuable floor space.



50 Gallon Tank
Take up valuable floor space

NR-180
Free up valuable floor space

Navien's 98 Ready Link® Cascade System

Navien's 98 Ready Link® System is the best alternative for large volumes of hot water. With its easy venting and installation, up to 98 compact-sized Navien Water Heaters can be set up as one system. Unlike tank-type water heaters, sudden hot-water cutoffs can be avoided.

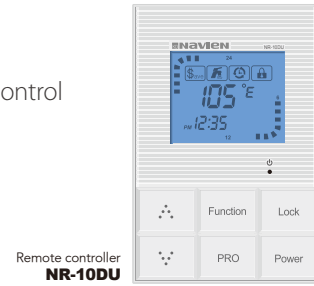
- Largest Volume of Hot Water in the Industry; can link up to 98 units, the largest number of units
- Energy Saving; industry's most efficient multi-unit system with an exceptional 98% efficiency
- Easy Wiring Connection; simple wiring link without complicated communication cables and controllers
- Easy Ventilating; built-in APS for longer length vent pipe
- Easy Water Piping; eliminates the need to add electrically activated water valves during installation
- Low Maintenance Cost; even if one unit of the system fails, the rest will operate without any problems
- Full Modulation System; whole Cascade system acts like one system with system modulation



* The design of the product may change without prior notice to improve the quality or performance.

Remote Control NR-10DU

- Advanced water heater diagnosis capability and error feedback
- Touch activated backlight function and Easy-to-Use button type control
- Built-in recirculation timer for water and energy savings
- Key-pad lock button prevents inadvertent temperature changes
- Temperature adjustment in 1°F increments between 98-120°F



Hot-Water Flow Chart

Ground Water Temp. Model	35 °F	40 °F	45 °F	50 °F	55 °F	60 °F	65 °F	70 °F
NR-180	4.2 GPM	4.5 GPM	4.9 GPM	5.3 GPM	5.8 GPM	6.5 GPM	7.3 GPM	8.3 GPM
NR-210	5.0 GPM	5.4 GPM	5.8 GPM	6.3 GPM	7.0 GPM	7.8 GPM	8.7 GPM	10.0 GPM
NR-240 / NP-240	5.5 GPM	5.9 GPM	6.4 GPM	7.0 GPM	7.7 GPM	8.6 GPM	9.7 GPM	11.0 GPM

• Hot Water Set Temperature: 105°F

Right Model?

Ground Water Temp. Model	40 °F	55 °F	70 °F
NR-180	4.5 GPM	5.8 GPM	8.0 GPM
NR-210	5.4 GPM	7.0 GPM	10.0 GPM
NR-240 / NP-240	5.9 GPM	7.7 GPM	11.0 GPM

- Above GPM rates and shower capabilities are based on a standard 2.5 GPM shower head and a shower temperature of 105 °F.
- The ground water temperature may change with the seasons.
- Use the winter water temperatures to make your selection.

Industry's Best Warranty

Item	Warranty Period	NR Series		
		DHW use only	Residential Application	Commercial Application
Heat Exchanger	15 years	15 years	10 years	
Other Parts and Components	5 years	5 years	5 years	
Labor	1 year	1 year	1 year	

* Navien's 15 year warranty is the best in the industry – it's like a bonus.



Toll Free **1-800-519-8794**

Specifications

Navien America offers a complete line of condensing water heaters for residential, commercial and combination space heating applications.

Model		NR-180A / NR-180	NR-210A / NR-210	NR-240A / NR-240 NP-240A / NP-240
Heat Capacity (Input)	Natural Gas	Min: 15,000 Btu/h Max: 150,000 Btu/h	Min: 17,000 Btu/h Max: 180,000 Btu/h	Min: 17,000 Btu/h Max: 199,000 Btu/h
	LP Gas	Min: 15,000 Btu/h Max: 150,000 Btu/h	Min: 17,000 Btu/h Max: 180,000 Btu/h	Min: 17,000 Btu/h Max: 199,000 Btu/h
Thermal Efficiency		98.0 %	98.0 %	98.0 %
Energy Factor (DOE) <i>(Natural Gas)</i>	NR-A / NR	0.94 / 0.96	0.94 / 0.97	0.95 / 0.97
	NP-A / NP	-	-	0.95 / 0.95
Dimensions (W x H x D)		17"x 28"x 14"	17"x 28"x 15"	17"x 28"x 15"
Weight	NR / NP-A	77 lbs	86 lbs	86 lbs
	NR / NP	67 lbs	77 lbs	77 lbs
Installation Type		Indoor / Outdoor Wall-Hung		
Venting Type		Direct Vent		
Ignition		Electronic Ignition		
Water Pressure (min-max)		15 - 150 PSI		
Gas Supply Pressure (from source; min-max)		NG: 3.75"WC ~ 10.5"WC / LP: 8"WC ~ 13.5"WC		
Minimum Flow Rate to activate Water Heater		For "A" Model 0 GPM (no minimum flow rate requirement), Otherwise 0.5 GPM		
Connection Sizes	Cold Water Inlet	3/4" NP		
	Hot Water Outlet	3/4" NP		
	Gas Inlet	3/4" NP		
Power Supply	Main Supply	120VAC, 60Hz 200W (max 2A)		
Heat Exchangers		Primary Heat Exchanger: Stainless Steel Condensing Heat Exchanger: Stainless Steel		
Venting (0" Clearance)	Exhaust (ø3")	PVC, Navien Stainless Steel or Special Gas Vent Type BH Class IIA (PVC) in Canada		
	Intake (ø3")	PVC, Flex Aluminum, Flex Stainless Steel, ABS		

* Navien America reserves the right to change specifications at anytime without prior notice.

Model Description Legend

Model	Description
NR	Navien Regular (potable domestic hot water only) Maximum Temperature: 140°F
NP	Navien Premium (potable domestic hot water and commercial applications) Maximum Temperature: 185°F
A	With Circulation Pump and 0.5 US gallon (2 liter) Mini-Buffer Tank