

Condensing 98 %
NAVIEN
Navigating Energy and Environment



Navien Condensing Tankless Water Heaters

The Ultimate in Energy Efficiency with Hi-Tech Comfort



Why Navien Condensing Water Heaters?

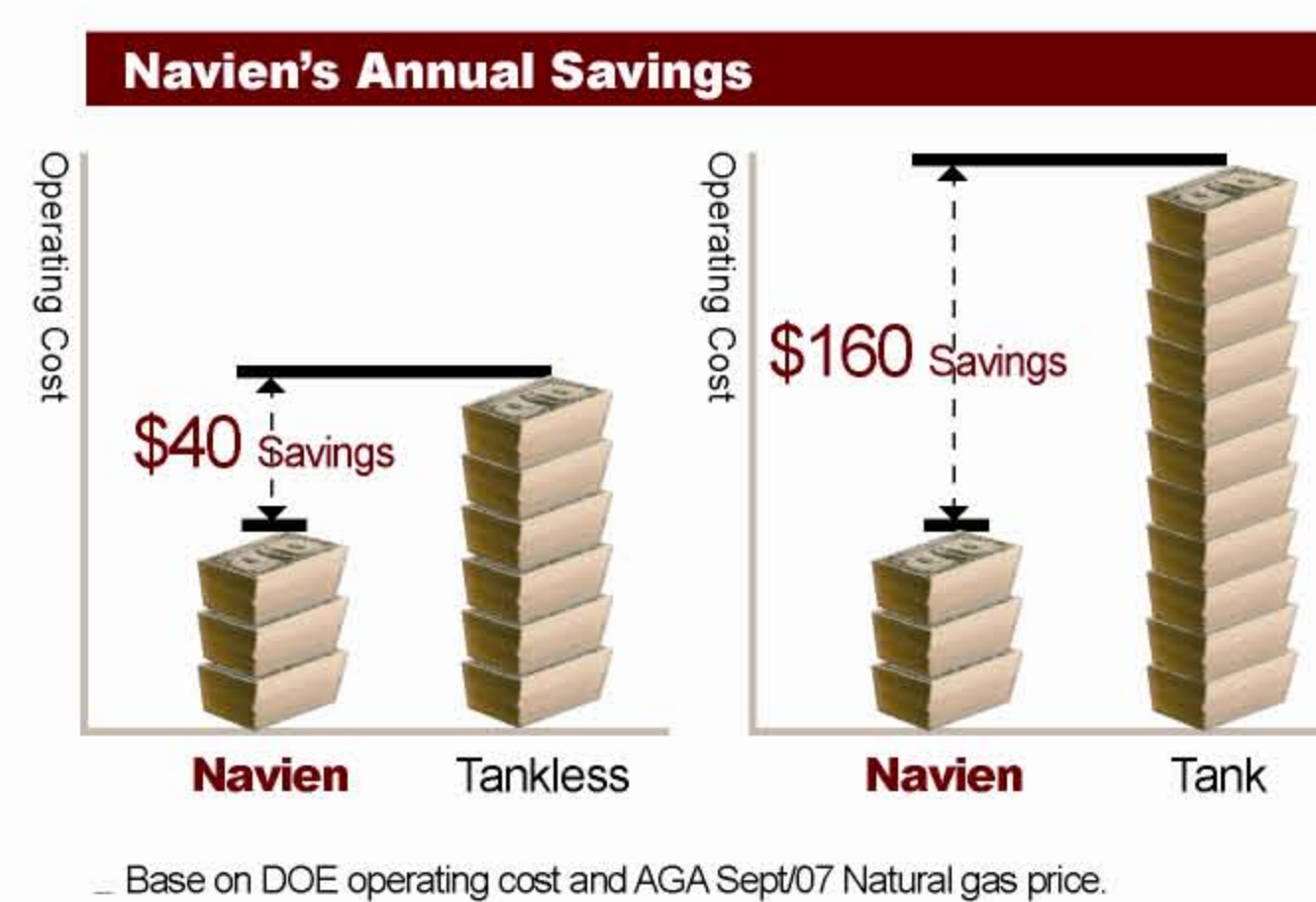
Endless Supply of Hot Water

Navien Condensing Tankless Water Heaters supply unlimited hot water at a steady temperature whenever you need it and for as long as you need it. Navien water heaters create a more comfortable living environment.



Ultra Condensing Efficiency

- ❖ The industry's highest energy efficiency at 98% means the lowest annual operating costs and the best payback compared with conventional tankless or tank-type water heaters.
- ❖ Saves, on average, more than \$160 per year over conventional tank type gas water heaters and \$40 per year over conventional tankless gas water heaters.
- ❖ Shortest payback of any tankless water heater on the market.
- ❖ Best gallons per minute performance when comparing input BTU.



Eco-Navien Technology

- ❑ Ultra efficient burner uses less gas resulting in substantial CO₂ and NO_x emissions reductions.
- ❑ Less NO_x and CO₂ means less acid rain and less green house gases minimizing ozone layer depletion.



Extended Lifecycle

- ❑ Navien's dual stainless steel heat exchangers are up to 20 times more resistant than copper heat exchangers to erosion and condensation damage.

Easy Venting

- ❑ The higher efficiency of Navien water heaters result in lower exhaust temperatures that allow the use of PVC or other plastic venting materials.
- ❑ Plastic venting offers significant cost savings and much easier installations.
- ❑ 3" PVC venting runs to 100' with 6 elbows

Advanced Technology

Enhanced Safety with Dual Microprocessors

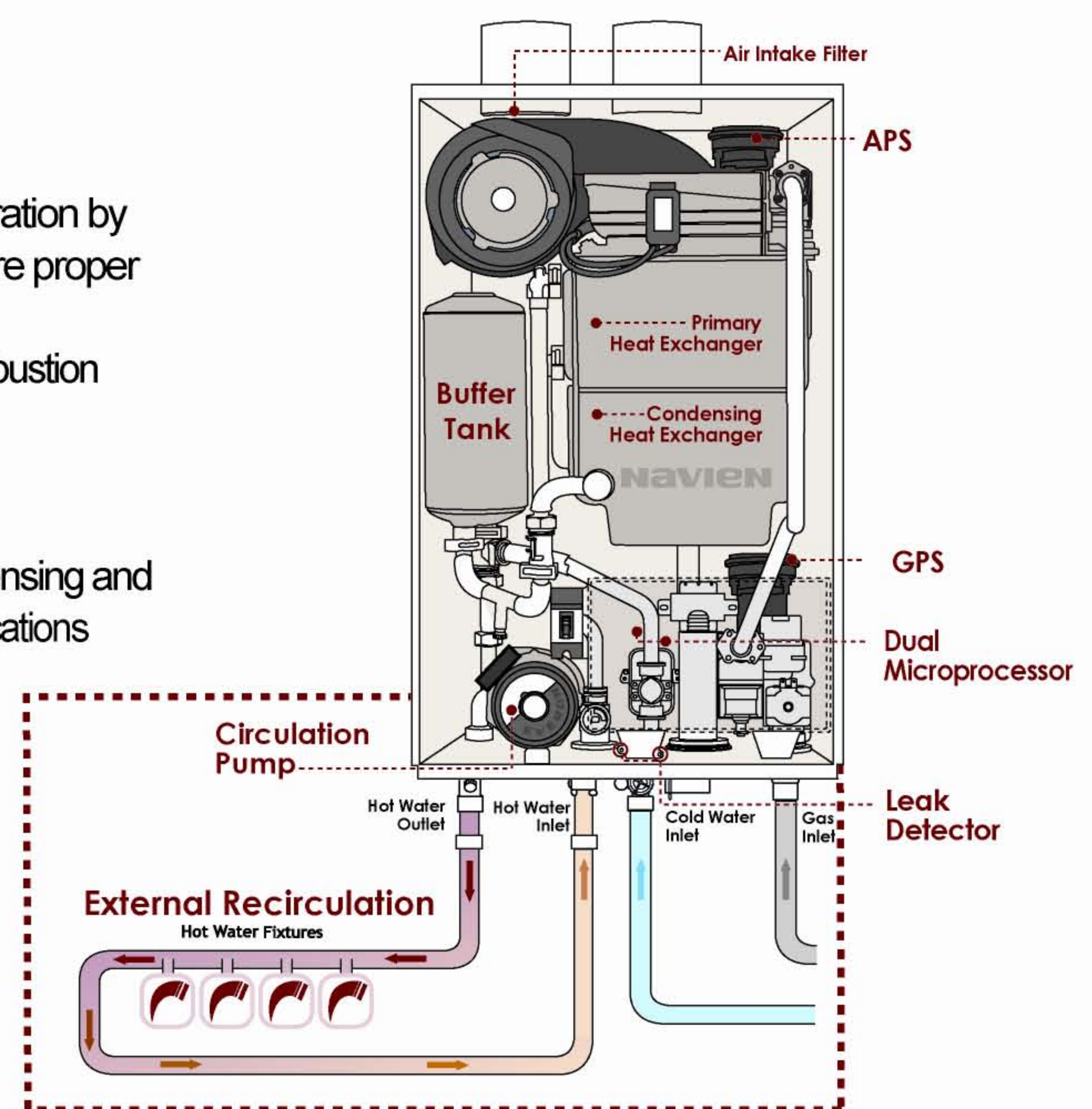
- Navien's two microprocessors offer better control and safer operation by continuously cross monitoring each other's performance to assure proper operation at all times.
- These two microprocessors not only control the burner for ideal combustion but also maintain a steady hot water temperature.

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 or in 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 changing gas pressure .

Leak Detector

- Built-in leak detector prevents damage to the water heater and to personal property caused by a water leak.

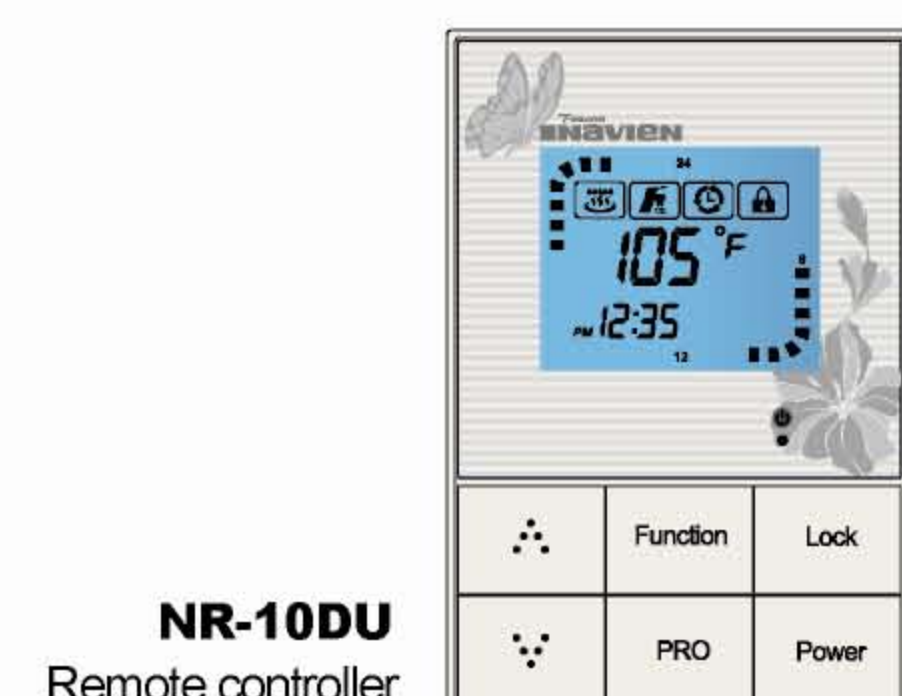


Built-in Circulation Pump with Mini Buffer Tank ("A" Model only)

- Delivers hot water to fixtures quickly resulting in water conservation.
- No minimum flow rate: get hot water even at very low flow rates of 0.1 or 0.2 GPM.
- Eliminates any hot/cold/hot stacking, the so-called "Cold Water Sandwich".
- Saves additional money and time by eliminating the pump purchase cost and on-site installation costs.
- Prevents heat exchanger from freezing.

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.



NR-10DU
Remote controller

Right Model?

Model	Cold Water Temperature	40°F		55°F		70°F	
		USA	GPM	USA	GPM	USA	GPM
CR - 180 CC - 180		2	4.6	3	5.9	4	8.5
CR - 210 CC - 210		2	5.3	3	6.9	4	9.8
CR - 240 CC - 240		3	6.0	3	7.8	5	11.1

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

Specifications

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

Item		CR-180, CR-180A, CC-180, CC-180A	CR-210, CR-210A, CC-210, CC-210A	CR-240, CR-240A, CC-240, CC-240A
Heat Capacity (Input)	Natural Gas	Min: 15,000 Btu/h Max: 150,000 Btu/h	Min: 17,000 Btu/h Max: 175,000 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: 175,000 Btu/h	Min: 17,000 Btu/h Max: 199,000 Btu/h
Thermal Efficiency		98.8 %	98.0 %	97.3 %
Energy Factor (DOE)		0.98	0.95	0.95
Dimensions		W17" x H28"x D10"	W17" x H28"x D12"	W17" x H28"x D12"
Weight	CR/CC-A	77 lbs	86 lbs	86 lbs
	CR/CC	67 lbs	77 lbs	77 lbs
Installation Type		Indoor 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" 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" NPT		
	Hot Water Outlet	3/4" NPT		
	Gas Inlet	3/4" NPT		
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
CR	Condensing Residential (potable domestic hot water only) Maximum Temperature: 140°F
CC	Condensing Commercial (potable domestic hot water with space heating and commercial applications) Maximum Temperature: 185°F
A	With Circulation Pump and 0.5 US gallon (2 liter) Mini-Buffer Tank



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