

NWP500 Series



## NEW NWP500 Heat Pump Water Heaters

High-efficiency, eco-friendly heat pump water heater with durable stainless steel tank and aluminum coils



# Introducing the NWP500 Heat Pump Water Heater



reddot winner 2025



Another Navien innovation with stainless steel to enhance performance and durability in water heating technology

Navien is a world innovator in tankless water heaters, boilers, combi-boilers, HVAC, and water treatment products. Their advanced stainless steel heat exchanger technology was one of the many advancements behind their number 1 selling wall-hung boilers and gas tankless water heaters in North America. The new NWP500 Heat Pump Water Heater is also built around the same innovative technology with a durable stainless steel tank...unlike many competitors who use enamel-coated steel and anodes to protect their water heaters.



Stainless steel tank and aluminum coils for improved durability.



Designed to meet NEEA AWHs Tier 4 requirements.



Top and side connection options.



Energy Star rating: up to 4.05 UEF.



Demand Response Ready with built-in EcoPort™ (CTA-2045 Port).



Quiet operation, less than 45 dBA.



Built-in Wi-Fi powered by NaviLink® with over-the-air software updates.



Ambient operating range of 41°F–113°F.

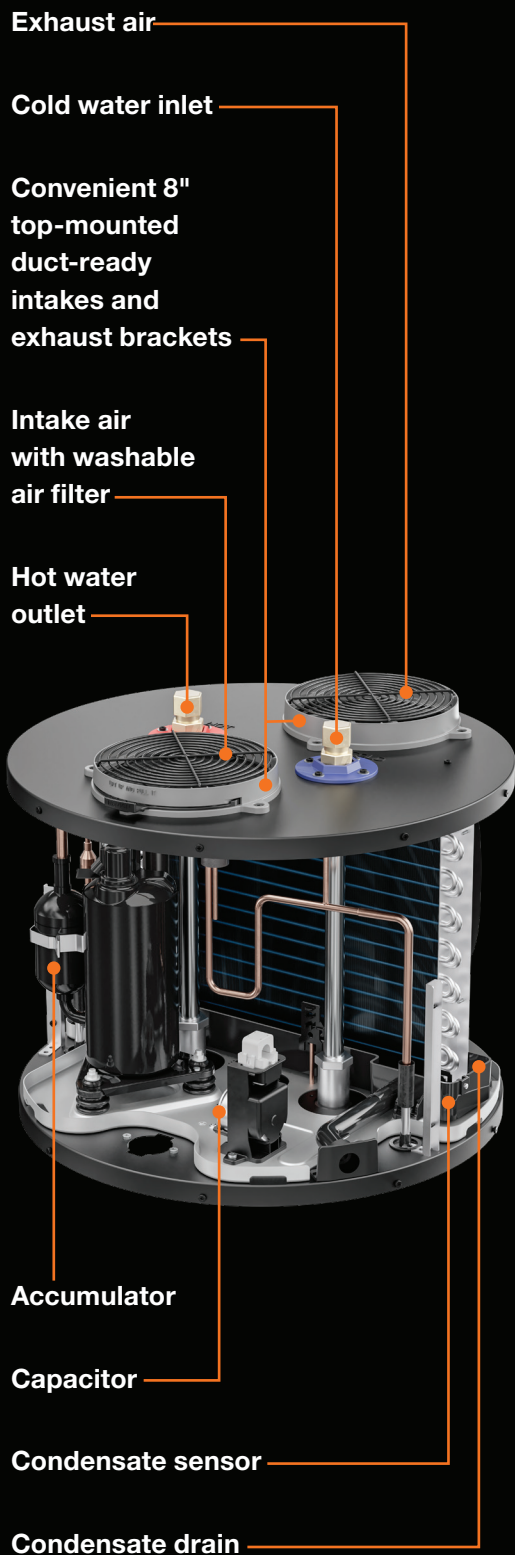
NWP500...a great reason in any season to save energy and utility costs



Customers can lower utility bills by switching from a traditional electric water heater to an NWP500 heat pump water heater.

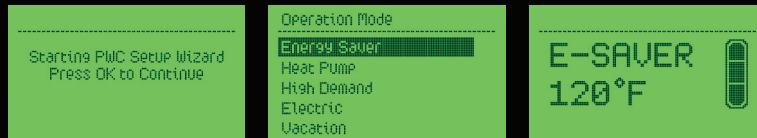


# The Inside Story: stainless steel tank and so much more



# More advantages inside and out

Intuitive LED control panel display  
for easy set-up and operation



Easy setup  
with built-in  
setup wizard.

Easily choose  
between different  
operation modes.

View operation  
mode and  
heat level.

- Available in 3 models:

- 50-gallon
- 65-gallon
- 80-gallon

- Built-in audible  
condensate alarm and  
dry-fire water sensing

- 5 operation modes  
for maximum  
performance  
and efficiency:

- Energy Saver
- Heat Pump
- High Demand
- Electric
- Vacation

- Optional add-ons:  
mixing valve, auto shut  
off, and leak detector

- Qualifies for  
many local and/or  
statewide rebates

Easy electrical  
access panel

Easy-to-clean  
fingerprint and  
smudge-resistant  
matte grey  
pre-coated finish

ECO (Energy Cut Off)

Easy access panels  
and covers for heating  
element rods

Incoloy stainless steel  
backup and direct  
heating elements

Safe, eco-friendly  
(non-CNC) insulation

Built-in dip tube  
diffuser for better  
water mixing



# Easy to install in small or large homes, and designed to perform in all climates



Most heat pump water heaters were designed for warm climates, but the engineers at Navien have changed all that. The NWP500 is another innovation from Navien that performs well in any climate. The models match standard tank water heater sizes and fit in tight spaces with zero clearance on

the sides and back. They can be installed in attics, utility rooms/closets, garages and basements in large and small homes.

The NWP500's multiple top and side connections, duct-ready mounting brackets, and intuitive controls for easy setup make retrofit and new construction installations hassle-free.

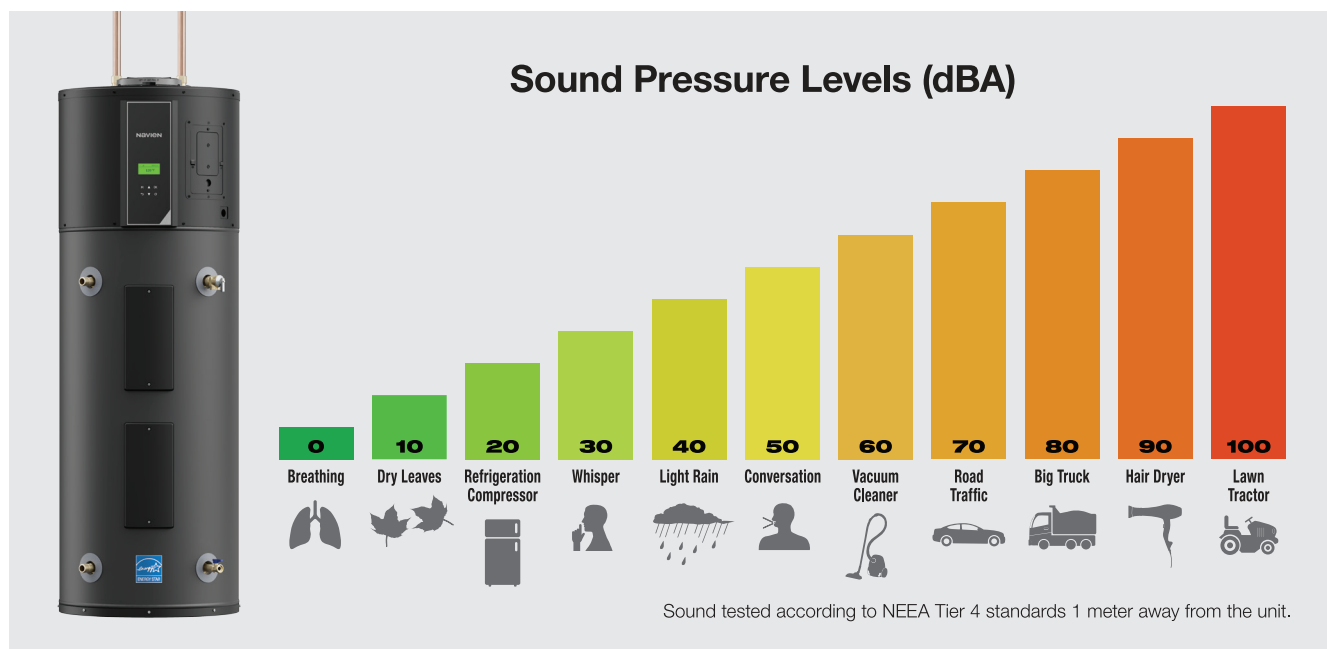


Cold climate installations would use indoor air for intake, and use exhaust ductwork to remove cold air from heated area in the home.










Warm climates would use intake ductwork for hot outdoor air, and the cold exhaust air can help cool installation areas.

## Quiet operation: less than 45 dBA



Specifications

Items			Model			
			NWP500-50		NWP500-65	NWP500-80
Capacity & Efficiency						
Dimensions			Ø 21.7" × 63" (Ø 552 mm × 1,600 mm)		Ø 25" × 63" (Ø 636 mm × 1,600 mm)	Ø 25" × 71.6" (Ø 636 mm × 1,819 mm)
Nominal capacity (gallons)			50		65	80
Rated storage volume (gallons)			45.2		63.2	76.1
UEF (Uniform Energy Factor)			3.85		4.03	4.05
First hour rating (gallons)			65		80	85
AHRI number			217191097		217191098	217191099
Product General Data						
Installation location			Indoor			
Water pressure			15–150 psi			
Connections size	Cold water inlet		3/4" NPT			
	Hot water outlet					
	Drain					
	T&P relief valve					
	Condensate drain					
	Heating element					
Materials	Casing		Cold rolled carbon steel			
	Storage tank		Stainless steel			
	Condenser		Aluminum coil			
Air in/out size	Air intake		Ø 8"			
	Air exhaust					
Safety devices			Condensate level sensor, ECO (Energy Cut Off) Temperature & Pressure (TP) relief valve			
Shipping weight			229 lbs (104 kg)		265 lbs (120 kg)	282 lbs (128 kg)
Net weight			181 lbs (82 kg)		204 lbs (92.7 kg)	220 lbs (99.6 kg)
Electrical Data						
Power supply			208/240V AC, 60 Hz, 1 Phase			
MCA			208V (25.9A) / 240V (28.8A)			
Circuit breaker — Amps			30A			
Wire size			Up to 10 AWG (Suitable for 167°F [75°C])			
Component Data						
Compressor (LRA)			11.6A			
Fan motor (FLA)			0.22A			
208 V	Compressor (RLA)		2.0A			
	Heating element	Upper	3,755W			
		Lower				
240 V	Compressor (RLA)		1.75A			
	Heating element	Upper	5,000W			
		Lower				
Maximum pressure		Discharge	2.654 MPa / 385 PSIG			
		Suction	1.724 MPa / 250 PSIG			
Refrigerant			R-134a			
Refrigerant charge			28.2 oz / 800 g			
Certifications			<div></div>			

Navien reserves the right to change specifications at any time without prior notice. Please refer to [www.navieninc.com](http://www.navieninc.com) to verify you have the most current information.

Warranty

Model	Labor	Parts	Tank
NWP500-50	1 Year	10 Years	10 Years
NWP500-65			
NWP500-80			

Navien's warranty (which may be changed without prior notice) is subject to the terms and conditions found at [www.navieninc.com/warranties](http://www.navieninc.com/warranties).

Navien, Inc. [navieninc.com](http://navieninc.com) 800-519-8794  
20 Goodyear, Irvine, CA 92618

We are @Navieninc everywhere



Navien Canada, Inc. [navieninc.ca](http://navieninc.ca) 800-519-8794  
555 Hanlan Rd., Unit 7, Vaughan, ON L4L 4R8

