

NWP500 Series

 **navien**

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.



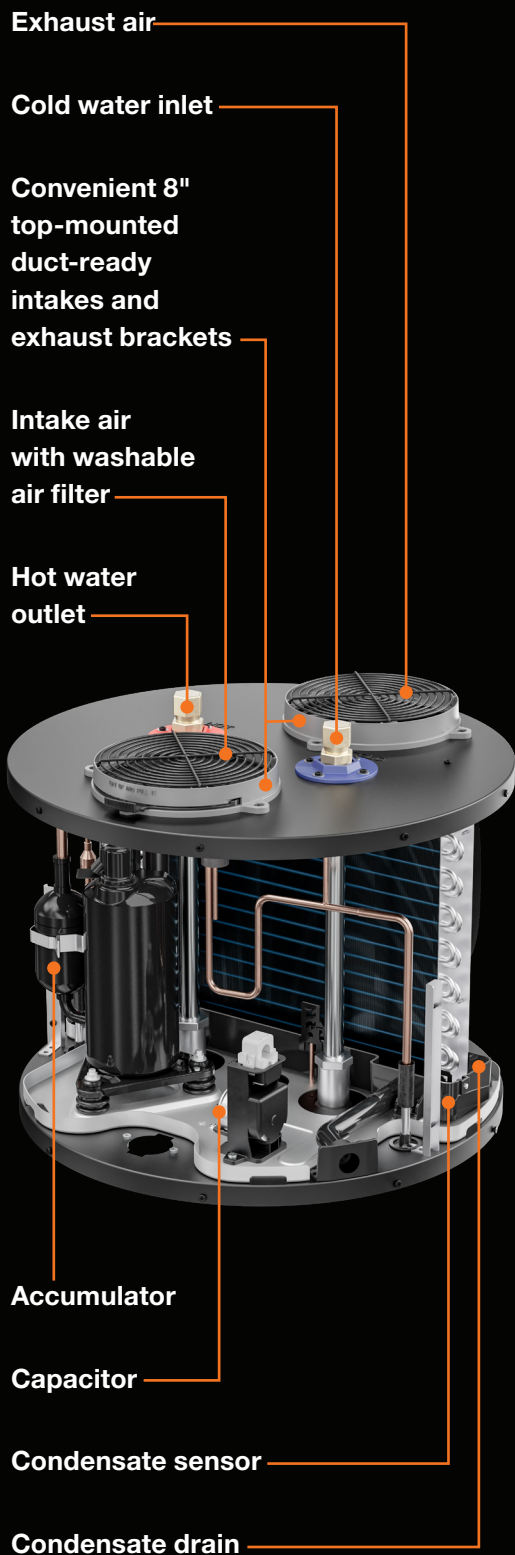
Ambient operating range of 41°F–113°F.

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



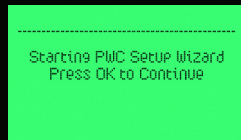
Customers can lower utility bills by switching from a traditional electric water heater to an NWP500 heat pump water heater.

The Inside Story: stainless steel tank and so much more

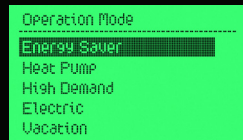


More advantages inside and out

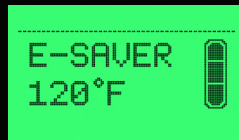
Intuitive LED control panel display
for easy set-up and operation



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-CFC) 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.



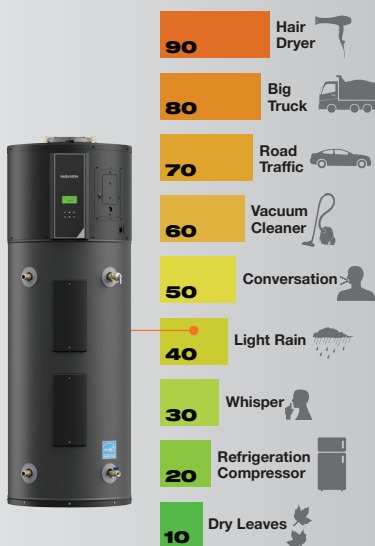
Cold climate installations would use indoor air for intake, and use exhaust ductwork to remove cold air from heated area in the home.



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

Quiet operation under 45 dBA Accessories

Sound Pressure Levels (dBA)



Sound tested according to NEEA Tier 4 standards
1 meter away from the unit.



ComfortCirc™ Recirculation Kit PFFW-SS2-001

Optimizes recirculation operation and minimizes energy loss for NWP500. Automatically adjusts during Demand-Response (CTA-2045).









*Compatible with NWP500 units manufactured in or after November 2025.



Leak Detection Sensor Kit GXXX002964

Monitors NWP500 installation for any potential leaks and included automatic shut-off valve reduces potential water discharge. Smart monitoring and notifications via NaviLink app.

Specifications

| Items | Model | | |
|----------------------------------|--|------------------------------------|--------------------------------------|
| | NWP500-50 | NWP500-65 | NWP500-80 |
| Capacity & Efficiency | | | |
| Dimensions | Ø21.7" × 63" (Ø552 mm × 1,600 mm) | Ø25" × 63" (Ø636 mm × 1,600 mm) | Ø25" × 71.6" (Ø636 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 | Ø8" | |
| | 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 | 208/240VAC, 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 |         | | |

Navien reserves the right to change specifications at any time without prior notice. Please refer to 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.

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