NPE Series

NPE-A and NPE-S Condensing Tankless Water Heaters

Navien makes it easy to go tankless in residential and commercial applications.

New NaviLink Wi-Fi remote control system...Now available as an add-on accessory.
NPE-Advanced

Our advanced high efficiency condensing tankless water heater technology with exclusive ComfortFlow internal pump & buffer tank

ComfortFlow

Exclusive built-in recirculation system included on all NPE-A models

Navien ComfortFlow® was the first system to incorporate a built-in insulated buffer tank and recirculation pump. The buffer tank eliminates the “cold water sandwich” effect and issues of minimum flow rates commonly found in other tankless water heaters. The recirculation pump saves on water bills by reducing the time to get hot water. When activated, the optional ComfortFlow mode results in additional energy usage.
NPE-A and NPE-S series facts

Temperature rise

<table>
<thead>
<tr>
<th>Temp rise (°F)</th>
<th>150S GPM</th>
<th>180 series GPM</th>
<th>210 series GPM</th>
<th>240 series GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>6.8</td>
<td>8.4</td>
<td>10.1</td>
<td>11.2</td>
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<tr>
<td>40</td>
<td>5.9</td>
<td>7.4</td>
<td>8.8</td>
<td>9.8</td>
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<tr>
<td>45</td>
<td>5.3</td>
<td>6.5</td>
<td>7.8</td>
<td>8.7</td>
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<tr>
<td>50</td>
<td>4.8</td>
<td>5.9</td>
<td>7.1</td>
<td>7.8</td>
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<tr>
<td>55</td>
<td>4.3</td>
<td>5.3</td>
<td>6.4</td>
<td>7.1</td>
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<td>60</td>
<td>4.0</td>
<td>4.9</td>
<td>5.9</td>
<td>6.5</td>
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<tr>
<td>65</td>
<td>3.7</td>
<td>4.5</td>
<td>5.4</td>
<td>6.0</td>
</tr>
<tr>
<td>70</td>
<td>3.4</td>
<td>4.2</td>
<td>5.0</td>
<td>5.6</td>
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<tr>
<td>75</td>
<td>3.2</td>
<td>3.9</td>
<td>4.7</td>
<td>5.2</td>
</tr>
<tr>
<td>80</td>
<td>3.0</td>
<td>3.7</td>
<td>4.4</td>
<td>4.9</td>
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<tr>
<td>85</td>
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<td>3.5</td>
<td>4.2</td>
<td>4.6</td>
</tr>
<tr>
<td>90</td>
<td>2.6</td>
<td>3.3</td>
<td>3.9</td>
<td>4.4</td>
</tr>
<tr>
<td>100</td>
<td>2.4</td>
<td>2.9</td>
<td>3.5</td>
<td>3.9</td>
</tr>
<tr>
<td>110</td>
<td>2.2</td>
<td>2.7</td>
<td>3.2</td>
<td>3.6</td>
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<tr>
<td>120</td>
<td>2.0</td>
<td>2.5</td>
<td>2.9</td>
<td>3.3</td>
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<tr>
<td>130</td>
<td>1.8</td>
<td>2.3</td>
<td>2.7</td>
<td>3.0</td>
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<tr>
<td>140</td>
<td>1.7</td>
<td>2.1</td>
<td>2.5</td>
<td>2.8</td>
</tr>
</tbody>
</table>

DHW capacity

<table>
<thead>
<tr>
<th>Models</th>
<th>Natural gas (BTU/H)</th>
<th>Propane gas (BTU/H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPE-150S</td>
<td>18,000–120,000</td>
<td>18,000–120,000</td>
</tr>
<tr>
<td>NPE-180 A/S series</td>
<td>15,000–150,000</td>
<td>15,000–150,000</td>
</tr>
<tr>
<td>NPE-210 A/S series</td>
<td>19,900–180,000</td>
<td>19,900–180,000</td>
</tr>
</tbody>
</table>

Operating cost

- Navien tankless: 175 therms $191*
- Other tankless: 209 therms $228*
- Standard tank: 269 therms $290*

*Based on Energy Guide cost estimates using $1.09 per therm of natural gas. Cost is in US dollars.

U.S. Green Building Council LEED Points

<table>
<thead>
<tr>
<th>Water heater Location Recirculation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Point</td>
</tr>
<tr>
<td>2 Points</td>
</tr>
<tr>
<td>3 Points</td>
</tr>
</tbody>
</table>

Warranty

<table>
<thead>
<tr>
<th>Application</th>
<th>Labor</th>
<th>Parts</th>
<th>Heat exchanger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Standard or controlled recirculation</td>
<td>1 year</td>
<td>5 years</td>
<td>15 years</td>
</tr>
<tr>
<td>Uncontrolled recirculation</td>
<td>1 year</td>
<td>3 years</td>
<td>5 years</td>
</tr>
<tr>
<td>Commercial or Combi* Standard or controlled recirculation for units produced on or after Jan. 1, 2016</td>
<td>1 year</td>
<td>5 years</td>
<td>8 years</td>
</tr>
<tr>
<td>Standard or controlled recirculation for units produced before Jan. 1, 2016</td>
<td>1 year</td>
<td>3 years</td>
<td>10 years</td>
</tr>
<tr>
<td>Uncontrolled recirculation*</td>
<td>1 year</td>
<td>3 years</td>
<td>3 years</td>
</tr>
</tbody>
</table>

*Combi refers to a combination potable water and space heating application. Water heaters cannot be used in space heating only applications.

For complete details please refer to the full warranty at NavienInc.com.

Lower HERS home index score
When it comes to water heater performance… it’s all about the output

The NPE-S condensing tankless water heaters are so efficient that they outperform much larger capacity non-condensing competitors. More output for the money, lower installation costs and lower operating costs for customers makes it a smart choice.

**Cascade up to 16 units**

With Navien cascading technology, when a unit gets up to 75% capacity the next unit will turn on to help meet requirements. This flow and demand ratio will continue until all 16 units are generating hot water as needed. The Navien cascading system also balances out the workload of each unit for longer life.

**Common vent up to 8 units**

Building penetrations are reduced with Navien’s common venting feature.
World-class quality

The global leader in energy efficient technology

KD Navien was an early leader in developing condensing technology for boilers and water heaters. Condensing technology maximizes energy savings by capturing additional heat from the flue gases. As a result, energy consumption and greenhouse gases are significantly reduced.

Easy to sell, easy to install

Cuts installation time in half
Thanks to using ½" gas pipe (subject to local code) and 2" PVC venting, you can install a Navien tankless water heater in about half the time as competitive tankless heaters.

Fewer callbacks, longer life, faster heating
Navien was first to offer dual stainless steel heat exchangers, rather than copper, which extends the life of the unit by resisting corrosion.

Energy Star highest rated gas water heater
The NPE is the most energy efficient* tankless water heater in the industry. Our condensing technology delivers performance up to 0.97 UEF.

*EPA Energy Star Directory.

Brian Palm, Director of Sustainability and an environmental science teacher said, “Our tank system was more than 10 years old and from an efficiency perspective, we had some potential for savings.” He calculates the new Navien system will save the school $20,000 a year.

Contractors recommend Navien for its stainless steel heat exchanger. “It will last a lot longer than copper heat exchangers on other tankless units.”

J. Richards
NPE-A on-demand recirculation accessory

At the push of a button, the Navien HotButton activates the internal recirculation pump and gas-fired burner to heat up the water in the supply lines. This gives your customers hot water when they need it, saving water and money. This add-on accessory is available on all NPE-A series tankless water heater models, and is California Title 24 compliant.

NPE-A&S optional Wi-Fi remote control system

This add-on accessory will enable customers with smartphones and tablets to control temperatures remotely, access usage data and receive diagnostic notifications on all Navien products (NPE, NPN, NCB-E, NFC, NHB, NFB). Existing installations/stock may require the purchase of a new main PCB and front control panel.
NPE-A Combination space heating and DHW

The H₂Air Kit utilizes the NPE-A pump to circulate the hot water for the hydronic air handler. This removes the need to purchase an additional circulator for the heating system.

Designed for both retrofit and new construction residential applications, Navien’s H₂Air Kit* consists of an add-on controller that allows for space heating and DHW system integration between NPE-A series tankless water heater models and a hydronic air handler.

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**H₂Air is compatible with hydronic air handler models that require W1/W2/R terminals along with single or dual-stage thermostats.**

*Compatible with NPE-A series units produced on or after May 31, 2014.

**Self-powered thermostats only.

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**The Leader in Condensing Technology**

K.D. Navien®

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**H₂Air**

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THE LEADER IN CONDENSING TECHNOLOGY
The Leader in Condensing Technology

**PeakFlow™**
- PeakFlow™: GXXX001726
- PeakFlow™: GXXX001327

**Media Replacement**
- Residential: GXXX001323
- Commercial: GXXX001324 (up to 6 units)
- Commercial: GXXX001325 (up to 16 units)
- Commercial: GXXX001328 (up to 16 units)

**Dimensions**
- 17.3” W x 27.4” H x 13.2” D

**Specifications**
- **Heat capacity (input)**: Natural gas 18,000–120,000 BTU/H, Propane gas 15,000–150,000 BTU/H
- **Efficiency ratings**: UEF (NG & LP) 0.96, 0.96, 0.97, 0.96, 0.97, 0.96, 0.97
- **Flow rate (DHW)**: 35°F (19°C) temp rise 6.8 GPM (26 L/min), 45°F (25°C) temp rise 5.3 GPM (20 L/min), 67°F (30°C) temp rise 3.2 GPM (12 L/min)
- **Dimensions**: 17.3” W x 27.4” H x 13.2” D
- **Weight**: 55lbs (25kg), 75lbs (34kg)

**Installation type**
- Indoor or outdoor wall-hung

**Venting type**
- Forced draft direct vent

**Ignition**
- Electronic ignition

**Venting**
- Exhaust 2” or 3” PVC, CPVC, PP, SS / 2” or 3” special gas vent type BH (Class II, A/B/C)

**Heat exchangers**
- Primary heat exchangers: stainless steel, secondary heat exchangers: stainless steel

**Consumption**
- 200W (max 2A), 350W (max 4A) with external pump connected

**Main supply**
- 120V AC, 60 Hz

**Connection**
- Main supply: 3/4” NPT
- Gas inlet: 3/4” NPT

**Power supply**
- Maximum power consumption: 200W (max 2A), 350W (max 4A) with external pump connected

**Vent clearances**
- 0” to combustibles

**Flame rod, APS, ignition operation detector, water temperature high limit switch, exhaust temperature high limit sensor, power surge fuse**

**Safety devices**
- Flame rod, APS, ignition operation detector, water temperature high limit switch, exhaust temperature high limit sensor, power surge fuse

**NaviLink™**
- Wi-Fi Control
- AHU Kit
- Remote Controller
- Cascade Cable
- Plumb Easy Valve 3/4” with Relief Valve
- Plumb Easy 3 Valve Set for NPE-A
- Vent Cap NPE Series
- Common Vent Collar Kit
- 2” and 3” Wall Flange and Vent Terminator Kit

**H2 Air™ Kit**
- AHU Optimizer
- NPE Series

**Remote Controller**
- 30009757A

**Cascade Cable**
- GXXX000546 External Pump Wire

**Plumb Easy Valve 3/4” with Relief Valve**
- GXXX005253A

**Plumb Easy 3 Valve Set for NPE-A**
- 30022163A

**Vent Cap NPE Series**
- 30001604A

**Common Vent Collar Kit**
- 30014617A

**2” and 3” Wall Flange and Vent Terminator Kit**
- 2” – 30010707A
- 3” – 30003873B

**PeakFlow™ Anti-Scale System**
- GXXX001725
- Residential Neutralizer (1 unit)
- GXXX001322
- Residential Neutralizer (2 units)
- GXXX001324
- Residential Replacement Media GXXX001323

**Light Commercial Neutralizer**
- (up to 6 units) GXXX001325
- Commercial Replacement Media GXXX001328

**Commercial Neutralizer**
- (up to 16 units) GXXX001325
- Commercial Replacement Media GXXX001329

**Commercial Neutralizer**
- Designed to work with pipe cover GXXX00581A

**Pipe Cover NPE Series**
- 30012604A

**HotButton™ Control Kit**
- GXXX000460 Wall Plate GXXX001427

**Ready-Link® Rack Base (V3)**
- GFPM-KD1ZUS-005

**NaviCirc™**
- FFPP-WXX-001
- Ready-Link® Rack Add-on (V3) GFPM-KD1ZUS-006

**NaviCirc Kit**
- GXXX001319

**Cascade Cable**
- GXXX001319

**Pump Wire**
- GXXX000546

**Flange and Vent**
- 2” and 3” Wall

**Terminator Kit**
- GXXX001426

**Accessories**

NaviLink™ Wi-Fi Control
- PBCM-AS-001

H2 Air™ Kit
- AHU Optimizer
- PNBD-000001

Remote Controller
- 30009757A

Cascade Cable
- GXXX000546 External Pump Wire

Plumb Easy Valve 3/4” with Relief Valve
- GXXX005253A

Plumb Easy 3 Valve Set for NPE-A
- 30022163A

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- 30014367A

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NaviCirc™ FFPP-WXX-001

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