

# QuickFacts

## NPN Series Tankless Water Heaters



**NPN-Universal**  
indoor version

**NPN-Universal**  
with vent cap  
for outdoor use

**NPN-Exterior**  
outdoor only

### Navien certification summary

Model	Product Approvals				Efficiency Ratings*	
	CSA	NSF (Standard 5)	Low Lead ( $<0.25\%$ )	Ultra Low NOx	Uniform Energy Factor (UEF)	Max GPM (35°F Rise)
NPN-160U-NG	Yes	Yes	Yes	Yes	0.81	7.5
NPN-160U-LP	Yes	Yes	Yes	Yes	0.81	7.5
NPN-180U-NG	Yes	Yes	Yes	Yes	0.81	8.5
NPN-180U-LP	Yes	Yes	Yes	Yes	0.81	8.5
NPN-199U-NG	Yes	Yes	Yes	Yes	0.81	9.5
NPN-199U-LP	Yes	Yes	Yes	Yes	0.81	9.5
NPN-160E-NG	Yes	Yes	Yes	Yes	0.81	7.5
NPN-160E-LP	Yes	Yes	Yes	Yes	0.81	7.5
NPN-180E-NG	Yes	Yes	Yes	Yes	0.81	8.5
NPN-180E-LP	Yes	Yes	Yes	Yes	0.81	8.5
NPN-199E-NG	Yes	Yes	Yes	Yes	0.81	9.5
NPN-199E-LP	Yes	Yes	Yes	Yes	0.81	9.5

\*Based on U.S. Department of Energy (DOE) test procedures.

\*\*Based on a national average natural gas cost of \$1.09/therm, propane cost of \$2.41/gallon.

### Temperature rise (maximum output)

Temp Rise (°F)	Flow Rate (GPM)		
	NPN-160	NPN-180	NPN-199
30	8.7	10.0	11.1
35	7.5	8.5	9.5
40	6.6	7.5	8.3
45	5.8	6.6	7.4
50	5.2	6.0	6.6
55	4.8	5.4	6.0
60	4.4	5.0	5.5
65	4.0	4.6	5.1
70	3.7	4.3	4.7
75	3.5	4.0	4.4
80	3.3	3.7	4.1
85	3.1	3.5	3.9
90	2.9	3.3	3.7
100*	2.6	3.0	3.3

\*Max temperature setting is 140°F (60°C).

### DHW capacity

Models	Natural Gas/Propane Gas
NPN-160 U/E series	10,700–160,000 (BTU/H)
NPN-180 U/E series	10,700–180,000 (BTU/H)
NPN-199 U/E series	10,700–199,900 (BTU/H)

### Warranty

Application		Labor	Parts	Heat Exchanger
Residential	Standard	1 year	5 years	15 years
	Uncontrolled Recirculation <sup>2</sup>	1 year	3 years	5 years
Commercial or Combi <sup>1</sup>	Standard	1 year	5 years	5 years
	Uncontrolled Recirculation <sup>2</sup>	1 year	3 years	3 years

<sup>1</sup>Combi refers to a combination potable water and space heating application. Water heaters cannot be used in space heating only applications.

<sup>2</sup>Uncontrolled-Recirculation: External pumps configured to circulate continuously through the water heater are subject to the uncontrolled recirculation warranty terms. An aquastat is the minimum pump control requirement for DHW or storage tank recirculation in order to maintain the full controlled recirculation warranty.

For complete details please refer to the full warranty at [NavienInc.com](http://NavienInc.com).

### Product features

<b>NAVITECH<sup>®</sup></b> STAINLESS STEEL HX AND BURNER	Stainless steel heat exchanger and burner
<b>PREMIUM INTEGRATED CONTROLS</b>	Premium integrated controls
<b>0.81 UEF</b>	Uniform energy factor 0.81
<b>98°–140°</b> TEMP RANGE	Temperature range 98°F to 140°F
<b>9.5 GPM</b> @ 35° TEMP RISE	Up to 9.5 GPM at 35° rise
<b>RESIDENTIAL &amp; COMMERCIAL</b>	For residential and commercial applications
<b>CASCADE CAPABLE</b>	Cascade ready for up to 2 units
<b>OPTIONAL Navilink<sup>™</sup></b> WI-FI CONTROL	This add-on accessory enables remote access to control temperatures, usage data and diagnostic notifications via smartphone or tablet.

## Dimensions

NPN-U Series	NPN-E Series
<p><b>Overhead View</b></p> <p><b>Front View</b></p> <p><b>Supply Connections</b></p> <p><b>Connection Size</b></p> <ul style="list-style-type: none"> <li>A Exhaust Gas Vent 3"</li> <li>B Air Intake 5"</li> <li>C Hot Water Outlet <math>\phi</math> 3/4"</li> <li>D Cold Water Inlet <math>\phi</math> 3/4"</li> <li>E Gas Inlet <math>\phi</math> 3/4"</li> <li>F Condensate Drain <math>\phi</math> 5/8"</li> </ul>	<p><b>Overhead View</b></p> <p><b>Front View</b></p> <p><b>Supply Connections</b></p> <p><b>Connection Size</b></p> <ul style="list-style-type: none"> <li>A Hot Water Outlet <math>\phi</math> 3/4"</li> <li>B Cold Water Inlet <math>\phi</math> 3/4"</li> <li>C Gas Inlet <math>\phi</math> 3/4"</li> </ul>

## Specifications

Item		NPN-Universal Model			NPN-Exterior Model		
		NPN-160U	NPN-180U	NPN-199U	NPN-160E	NPN-180E	NPN-199E
Heat capacity (input) natural gas/propane gas		10,700– 160,000 (BTU/H)	10,700– 180,000 (BTU/H)	10,700– 199,900 (BTU/H)	10,700– 160,000 (BTU/H)	10,700– 180,000 (BTU/H)	10,700– 199,900 (BTU/H)
Uniform Energy Factor for NG & LP		0.81 UEF					
Flow rate (DHW)	35°F (18°C) temp rise	7.5 GPM (28 L/m)	8.5 GPM (32 L/m)	9.5 GPM (36 L/m)	7.5 GPM (28 L/m)	8.5 GPM (32 L/m)	9.5 GPM (36 L/m)
	45°F (23°C) temp rise	5.8 GPM (22 L/m)	6.6 GPM (25 L/m)	7.4 GPM (28 L/m)	5.8 GPM (22 L/m)	6.6 GPM (25 L/m)	7.4 GPM (28 L/m)
	67°F (36°C) temp rise	4.0 GPM (15 L/m)	4.6 GPM (17 L/m)	5.1 GPM (19 L/m)	4.0 GPM (15 L/m)	4.6 GPM (17 L/m)	5.1 GPM (19 L/m)
Dimensions		14.0" W x 23.0" H x 9.3" D					
Weight		55 lbs (25 kg)	60 lbs (27 kg)	60 lbs (27 kg)	55 lbs (25 kg)	60 lbs (27 kg)	60 lbs (27 kg)
Installation type		Indoor wall-hung (vent kit option for outdoor)			Only outdoor wall-hung		
Venting type		Forced draft direct vent (indoor only)					
Ignition type		Electronic ignition					
Water pressure		15–150 PSI					
Natural gas supply pressure (from source)		3.5" WC – 10.5" WC					
Propane gas supply pressure (from source)		8" WC – 13" WC					
Natural gas manifold pressure (min-max)		2.83" WC, 0.70" WC	2.25" WC, 0.53" WC	2.81" WC, 0.53" WC	3.23" WC, 0.69" WC	2.38" WC, 0.53" WC	2.99" WC, 0.52" WC
Propane gas manifold pressure (min-max)		5.93" WC, 1.38" WC	5.28" WC, 1.31" WC	6.55" WC, 1.31" WC	6.34" WC, 1.35" WC	5.39" WC, 1.28" WC	6.61" WC, 1.28" WC
Minimum flow rate		0.5 GPM (1.9L/m)					
Connection sizes		3/4" NPT cold water inlet 3/4" NPT hot water outlet 3/4" NPT gas inlet					
Power supply	Main supply	120V AC, 60 Hz					
	Normal	90 W	88 W	120 W	90 W	88 W	120 W
	Standby	4 W					
	Anti-frost	114 W					
	External pump	< 150 W, 1.5 A					
Materials	Fuse	5.0 A					
	Casing	Cold rolled carbon steel					
Safety devices	Heat exchanger	Stainless steel					
		Flame rod, APS, ignition operation detector, water temperature high limit switch, power surge fuse					

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.

## Accessories

<p><b>NaviLink™ Wi-Fi Control</b> PBCM-AS-001</p>	<p><b>Plumb Easy Valve 3/4" with Relief Valve</b> 30009323A</p>	<p><b>Cascade Cable</b> GXXX000546 <b>External Pump Wire</b> GXXX001319</p>	<p><b>PeakFlowE™ Anti-Scale System</b> GXXX001725 <b>PeakFlowE™ Replacement Media</b> GXXX001726 <b>PeakFlowE™ Replacement Media</b> GXXX001327</p>	<p><b>Outdoor Vent Cap Kit (NPN-U Only)</b> 30023991A</p>	<p><b>Recess Box (NPN-E Only)</b> 30023550A</p>
<p><b>H2Air™ Kit AHU Optimizer</b> PNB0-000001</p>	<p><b>Remote Controller (Optional for NPN-U Models)</b> 30022717A</p>	<p><b>HotButton™ Control Kit</b> PZZZ-00046 <b>Wall Plate</b> GXXX001427 <b>Push Button</b> GXXX001426</p>	<p><b>Pipe Cover NPN Series</b> 30024017A</p>		



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