

QuickFacts



NPN-Universal
indoor version

NPN-Universal
with vent cap for outdoor use

NPN-Exterior
outdoor only

NPN Series Tankless Water Heaters

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 ²	1 year	3 years	5 years
Commercial or Combi ¹	Standard	1 year	5 years	8 years
	Uncontrolled recirculation ²	1 year	3 years	3 years

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

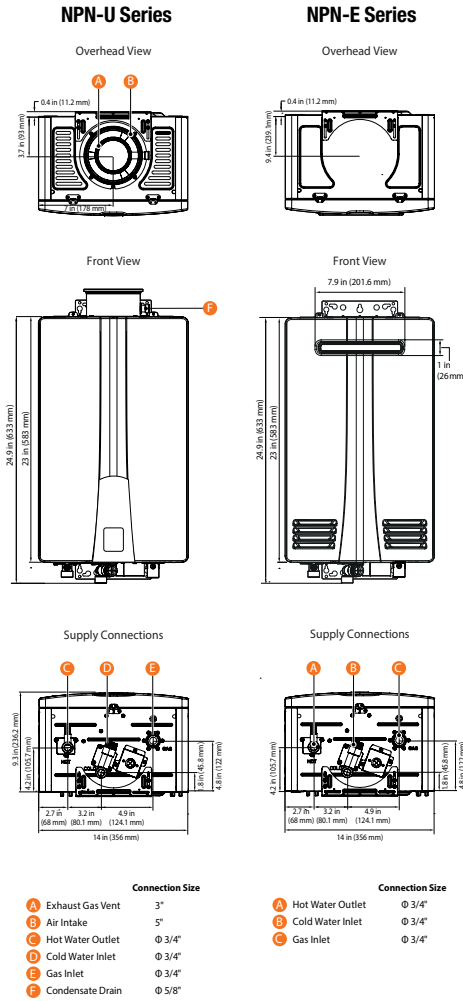
²Uncontrolled-Recirculation: External pumps configured to circulate continuously through the water heater are subject to the uncontrolled recirculation warranty terms. An aquastat is the minimum pump control requirement for DHW or storage tank recirculation in order to maintain the full controlled recirculation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

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

Product Features



Dimensions



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)
Efficiency rating 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)
	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)
	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)
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
	Standby	4 W				
	Anti-frost	114 W				
	External pump	< 150 W, 1.5 A				
Fuse	5.0 A					
Materials	Casing	Cold rolled carbon steel				
	Heat exchanger	Stainless steel				
Safety devices	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 to verify you have the most current information.

Accessories



Navien Inc., 20 Goodyear, Irvine, CA 92618 800-519-8794 NavienInc.com



N O N - C O N D E N S I N G T A N K L E S S R E I N V E N T E D