

QuickFacts



NPN Series Tankless Water Heaters

Navien Certification Summary

Model	Product Approvals					Efficiency Ratings*
	CSA	NSF (Standard 5)	Low Lead (<0.25%)	Ultra Low NOx	AHRI Number	Uniform Energy Factor (UEF)
NPN-160U-NG	Yes	Yes	Yes	Yes	205042074	0.81
NPN-160U-LP	Yes	Yes	Yes	Yes	205042075	0.81
NPN-180U-NG	Yes	Yes	Yes	Yes	204524353	0.81
NPN-180U-LP	Yes	Yes	Yes	Yes	204524354	0.81
NPN-199U-NG	Yes	Yes	Yes	Yes	204524349	0.81
NPN-199U-LP	Yes	Yes	Yes	Yes	204524350	0.81
NPN-120E-NG	Yes	Yes	Yes	Yes	207236397	0.81
NPN-120E-LP	Yes	Yes	Yes	Yes	207236398	0.81
NPN-160E-NG	Yes	Yes	Yes	Yes	205042076	0.81
NPN-160E-LP	Yes	Yes	Yes	Yes	205042077	0.81
NPN-180E-NG	Yes	Yes	Yes	Yes	204524355	0.81
NPN-180E-LP	Yes	Yes	Yes	Yes	204524356	0.81
NPN-199E-NG	Yes	Yes	Yes	Yes	204524351	0.81
NPN-199E-LP	Yes	Yes	Yes	Yes	204524352	0.81

*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-120	NPN-160	NPN-180	NPN-199
30	6.6	8.7	10.0	11.1
35	5.6	7.5	8.5	9.5
40	4.9	6.6	7.5	8.3
45	4.4	5.8	6.6	7.4
50	3.9	5.2	6.0	6.6
55	3.6	4.8	5.4	6.0
60	3.3	4.4	5.0	5.5
65	3.0	4.0	4.6	5.1
70	2.8	3.7	4.3	4.7
75	2.6	3.5	4.0	4.4
80	2.5	3.3	3.7	4.1
85	2.3	3.1	3.5	3.9
90	2.2	2.9	3.3	3.7
100*	2.0	2.6	3.0	3.3

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

DHW Capacity

Models	Natural Gas/Propane Gas
NPN-120E series	10,700–120,000 (BTU/H)
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	5 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

NAVITECH[®]
STAINLESS STEEL
HX AND BURNER

**PREMIUM
INTEGRATED
CONTROLS**

0.81 UEF

98°–140°
TEMP RANGE

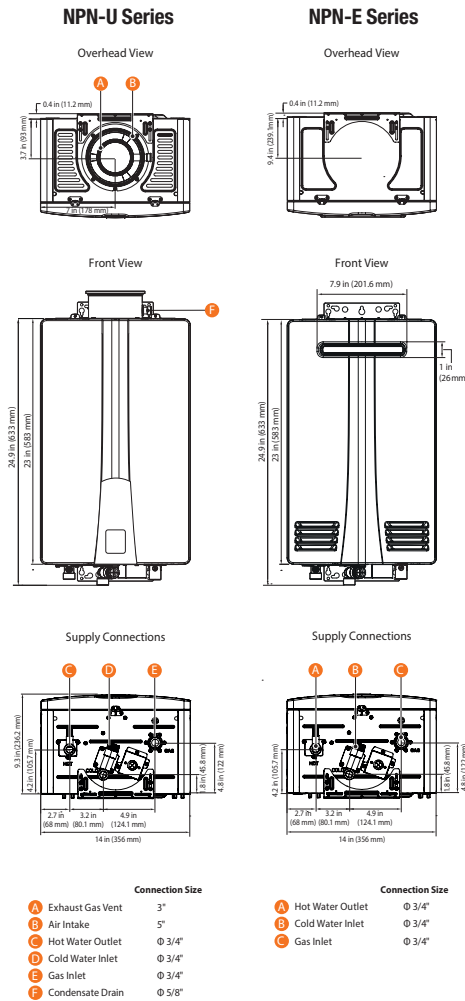
9.5 GPM
@ 35° TEMP RISE

**RESIDENTIAL &
COMMERCIAL**

**CASCADE
CAPABLE**

**OPTIONAL
Navilink[™]**
WI-FI CONTROL

Dimensions



Specifications

Item		NPN-Universal Model			NPN-Exterior Model			
		NPN-160U	NPN-180U	NPN-199U	NPN-120E	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– 120,000 (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)	5.6 GPM (21 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)	4.4 GPM (17 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)	2.9 GPM (11 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)	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	2.99" WC, 0.67" 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	6.65" WC, 1.54" 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	90 W	88 W	120 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

NaviLink™ Wi-Fi Control PBCM-AS-001	Plumb Easy Valve 3/4" with Relief Valve 30009323A	Cascade Cable GXXX000546 External Pump Wire GXXX001319	PeakFlow® S Scale Prevention System GPWC110001AC001	Outdoor Vent Cap Kit (NPN-U Only) 30023991A	
H2Air™ Kit AHU Optimizer PNBD-000001	Remote Controller (Optional for NPN-U Models) 30022717B	HotButton™ Control Kit PZZZ-00046 Wall Plate GXXX001427 Push Button GXXX001426		Pipe Cover NPN Series 30024017A	Recess Box (NPN-E Only) 30023550A



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



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