

NPN Series



# NPN-Universal & NPN-Exterior Premium Tankless Water Heaters

Navien  
innovation  
now in  
non-condensing  
tankless



NaviLink Wi-Fi remote control system...  
available as an add-on accessory.



NON-CONDENSING TANKLESS REINVENTED

# NPN NAVIEN PREMIUM NON-CONDENSING TANKLESS WATER HEATERS

No one has put more non-condensing ingenuity into tankless than Navien

The new Navien NPN series is the first and only non-condensing tankless water heater series that offers a durable stainless-steel heat exchanger and a patented stainless steel burner design, all with Navien's dedication to advanced engineering, elegant design and exceptional product quality and support.

- Patented NaviTech™ stainless steel heat exchanger and stainless steel burner with precision control flame technology for eco-friendly low NO<sub>x</sub> emissions comparable to condensing burners
- 0.81 Uniform Energy Factor (UEF) for all models
- Choice of universal indoor/outdoor or outdoor only operation
- Strong residential and commercial warranties
- NaviVent™ concentric 3" x 5" venting
- Units available in either Natural Gas (NG) or Liquid Propane (LP) gas

NAVITECH™  
STAINLESS STEEL  
HX AND BURNER

PREMIUM  
INTEGRATED  
CONTROL

0.81 UEF

98°-140°  
TEMP RANGE

9.5 GPM  
@ 35° TEMP RISE

RESIDENTIAL &  
COMMERCIAL

CASCADE  
CAPABLE



**NPN-Universal**  
Indoor/outdoor

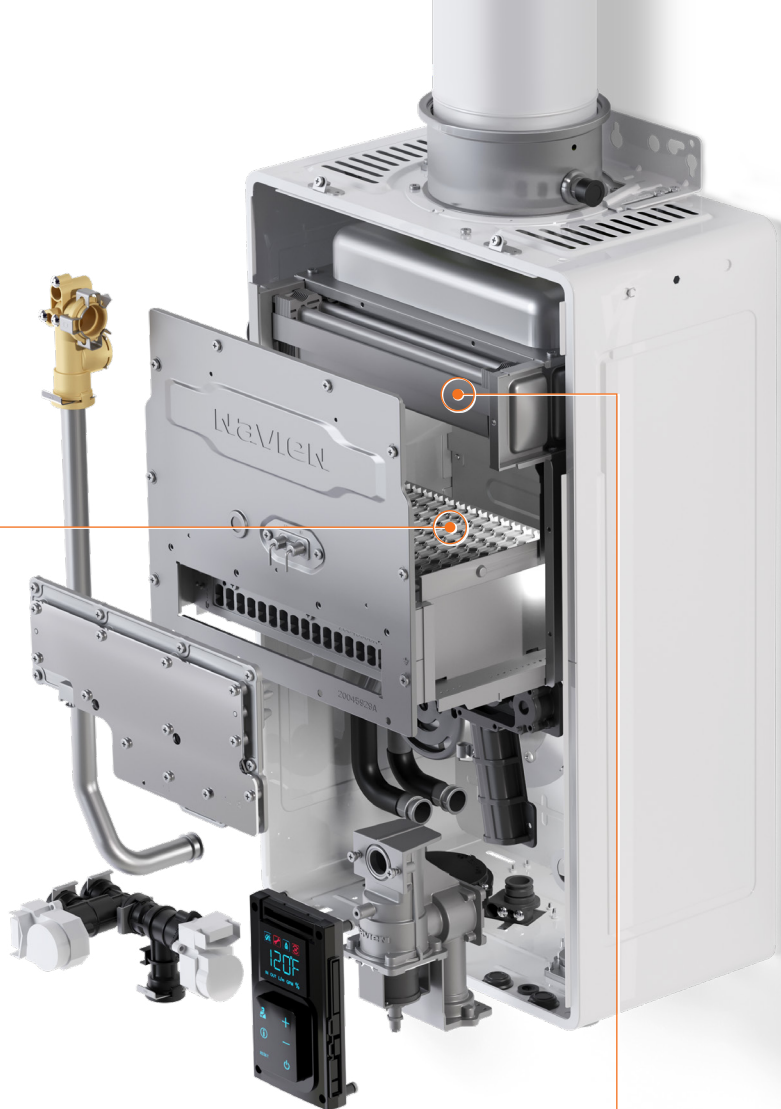
## NaviTech™ PATENTED NON-CONDENSING STAINLESS STEEL TECHNOLOGY

Navien NPN stainless steel heat exchangers and burners give you unmatched performance and durability

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



**NPN-Exterior**  
Outdoor only



**Patented NaviTech™ stainless steel burner** with precision control flame technology for eco-friendly low NO<sub>x</sub> emissions comparable to condensing burners.



**Exclusive NaviTech™ stainless steel heat exchanger.** NPN is the first non-condensing unit with a stainless steel heat exchanger. The corrosion resistant heat exchanger is another innovation created from Navien's industry leading NPE condensing tankless stainless steel technology.



# COMPARE OUR ADVANTAGES TO OTHER NON-CONDENSING TANKLESS

**Flexible Navien NPN-U** universal indoor or outdoor unit and **NPN-E** exterior dedicated outdoor unit. NPN-E outdoor models also feature remote control and built-in button controls for easy service.



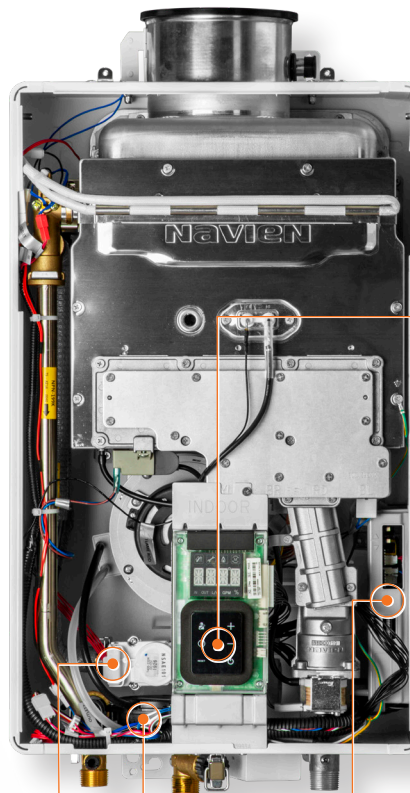
**NPN-U** Universal indoor configuration.



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



**NPN-E** Exterior outdoor use only.



• **NPN series integrated control panel** allows you to adjust water temperature, operation status and troubleshooting.



**NPN-U**

**NPN-E**

• **Circuitry with built-in recirculation control and software.** No need to add separate controller saving installation time and money.



• **Built-in Air Pressure Sensor (APS)** monitors and maintains air/gas pressure ratio during operation. Also ensures consistent DHW output during partial air blockage.



• **Built-in Water Adjustment Valve (WAV) and Mixing Valve** controls flow to maintain setpoint and stabilizes temperature during flow changes.



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





**Approved for mobile/manufactured homes.**

Navien NPN Series is the perfect domestic hot water system for eco-friendly tiny houses to larger high-tech homes.



**Space saving and lighter weight design.**

These sleek wall-hung units use much less space and are substantially lighter than traditional tank water heaters.



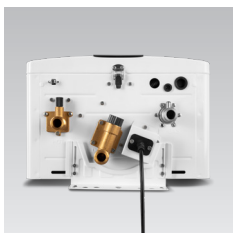
**Low noise levels.**

Installations in or near media rooms, recreation rooms or any living areas of the house are possible with the quiet running NPN water heaters.



**Cascading capability.**

For increased domestic hot water flow demand, the NPN can be cascaded with another NPN unit.



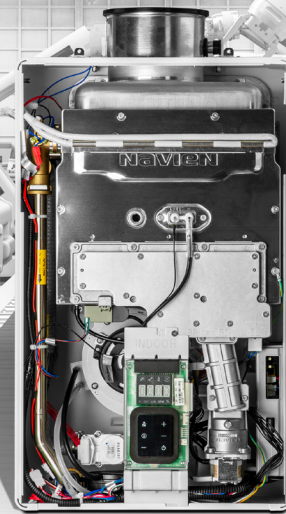
**Pin-to-pin design.**

Matches configuration of other tankless models for easy retrofit installation.



**Low NO<sub>x</sub>.**

The NPN series non-condensing eco-friendly stainless steel burner emits very low NO<sub>x</sub> levels, like our industry leading NPE series condensing tankless water heaters.



**90%+** OF NPN IS  
DESIGNED  
AND BUILT BY NAVIEN

Navien is the only non-condensing tankless water heater manufacturer to design and produce stainless steel heat exchangers and high efficiency NaviTech™ burners. Instead of assembling parts from various suppliers, we engineer and produce 90% of the components in our NPN series units and use advanced robotics to assure manufacturing integrity.



# NPN

## WATER HEATER ACCESSORIES



**PeakFlow®S**  
scale prevention  
system  
GPWC110001AC001



**Outdoor  
vent cap kit  
(NPN-U only)**  
30023991A



**Plumb easy  
valve set (V2)**  
3/4" with  
relief valve  
GXXX002139



**Pipe cover  
NPN series**  
30024017A



**Remote  
controller  
(optional for  
NPN-U models)**  
30022717B



**Cascade cable**  
GXXX000546  
**External  
pump wire**  
GXXX001319



**Recess box  
(NPN-E only)**  
30023550A  
(Lock not  
included)



**NaviLink™**

### Wi-Fi remote control

This optional accessory enables you to control temperatures remotely, access usage data and receive diagnostic notifications from your smart phone or tablet.



**NaviLink™  
Wi-Fi control**  
PBCM-AS-001



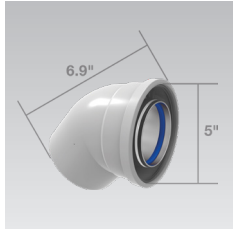
**H2Air™ kit  
AHU optimizer**  
PNBD-000001



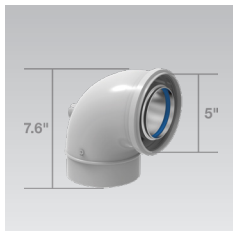
**HotButton™  
control kit**  
PZZZ-00046  
**Wall plate**  
GXXX001427  
**Push button**  
GXXX001426



## 3" x 5" CONCENTRIC VENTING ACCESSORIES



**Elbow**  
80-125 mm 45°  
GXXX001894



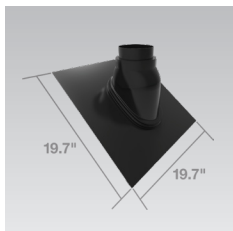
**Elbow**  
80-125 mm 90°  
GXXX001895



**Condensate trap kit**  
GXXX001952



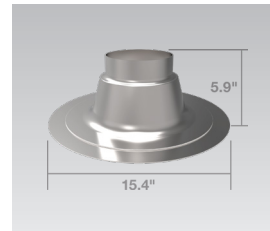
**Metal wall strap**  
GXXX001902



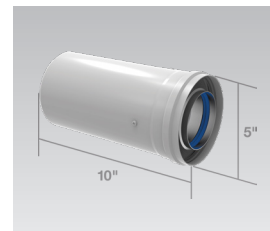
**Adjustable roof flashing**  
GXXX001901



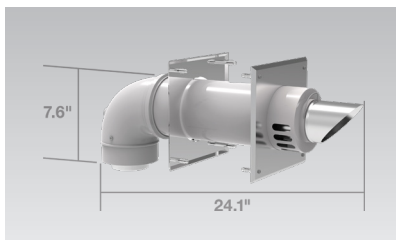
**Concentric roof termination**  
13" (330mm)  
GXXX001893



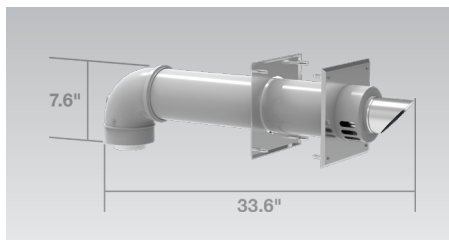
**Flat roof flashing**  
GXXX001900



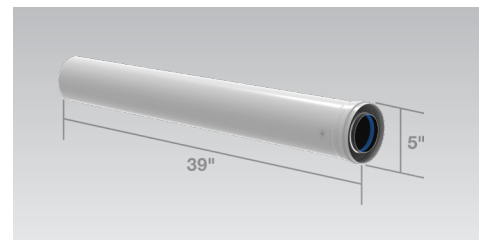
**Vent pipe extension**  
10" (254mm)  
GXXX001896



**Sidewall termination kit**  
11.5" (292mm)  
GXXX001891



**Sidewall termination kit**  
21" (533mm)  
GXXX001892

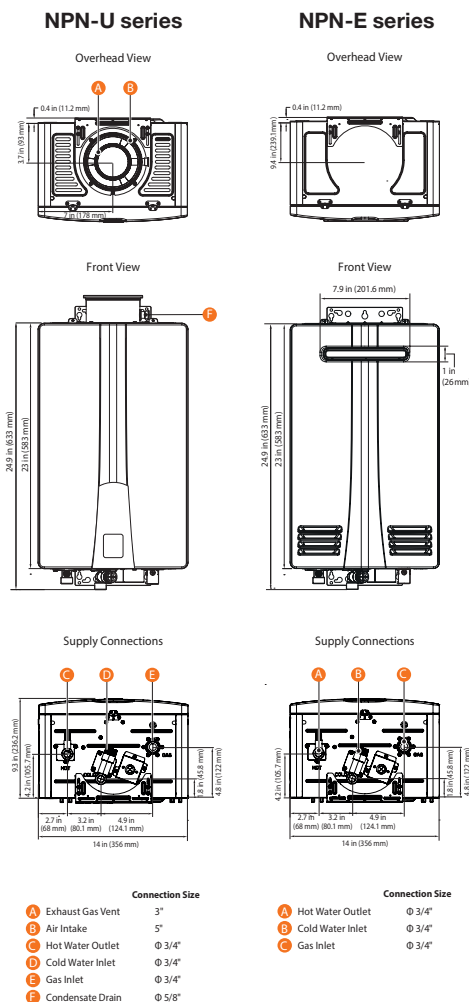


**Vent pipe extension**  
39" (991mm)  
GXXX001897





## Dimensions



## Ratings & 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 (19°C) temp rise	7.6 GPM (28.8 L/m)	8.5 GPM (32.2 L/m)	9.5 GPM (36.0 L/m)	5.6 GPM (21.2 L/m)	7.6 GPM (28.8 L/m)	8.5 GPM (32.2 L/m)	9.5 GPM (36.0 L/m)
	45°F (25°C) temp rise	5.8 GPM (22.3 L/m)	6.6 GPM (25.0 L/m)	7.4 GPM (28.0 L/m)	4.4 GPM (17 L/m)	5.8 GPM (22.3 L/m)	6.6 GPM (25.0 L/m)	7.4 GPM (28.0 L/m)
	67°F (37°C) temp rise	4.0 GPM (15.1 L/m)	4.5 GPM (17.0 L/m)	5.0 GPM (18.9 L/m)	2.9 GPM (11.0 L/m)	4.0 GPM (15.1 L/m)	4.5 GPM (17.0 L/m)	5.0 GPM (18.9 L/m)
Dimensions		14.0" W x 23.0" H x 9.3" D						
Weight		55.0 lbs. (25 kg)	60.0 lbs. (27 kg)	60.0 lbs. (27 kg)	55.0 lbs. (25 kg)	55.0 lbs. (25 kg)	60.0 lbs. (27 kg)	60.0 lbs. (27 kg)
Installation type		Indoor or outdoor wall-hung (vent kit option for outdoor)			Only outdoor wall-hung			
Venting type		Concentric			No venting (outdoor installation 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	Cold water inlet	3/4" NPT						
	Hot water outlet							
	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, overheat protection, ignition operation detector, water temperature high limit switch, power surge fuse						

## Warranty

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



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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