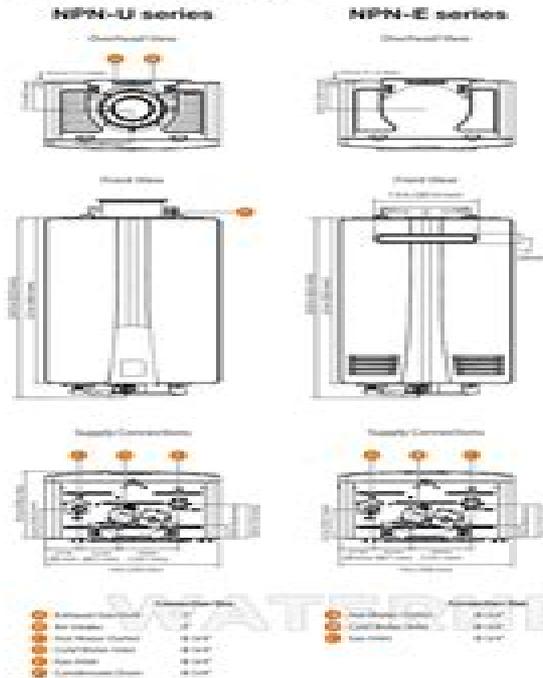


## Dimensions



## Ratings & specifications

Item	NPN-Universal Model			NPN-Exterior Model			
	NPN-100U	NPN-150U	NPN-200U	NPN-150E	NPN-180E	NPN-199E	
Heat capacity (ImpV) natural gas/propane gas	50,700- 160,000 (BTU/h)	50,700- 160,000 (BTU/h)	50,700- 160,000 (BTU/h)	50,700- 160,000 (BTU/h)	50,700- 160,000 (BTU/h)	50,700- 160,000 (BTU/h)	
Efficiency Rating for NG & LP	0.81 UEF						
Flow rate (GPM)	35°F (10°C) temp rise	7.6 GPM (28.8 L/m)	9.5 GPM (35.2 L/m)	9.5 GPM (35.0 L/m)	7.6 GPM (28.8 L/m)	9.5 GPM (35.0 L/m)	
	45°F (10°C) temp rise	5.8 GPM (22.3 L/m)	6.6 GPM (25.0 L/m)	7.4 GPM (28.0 L/m)	5.8 GPM (22.3 L/m)	7.4 GPM (28.0 L/m)	
	57°F (17°C) temp rise	4.0 GPM (15.1 L/m)	4.5 GPM (17.0 L/m)	5.0 GPM (18.0 L/m)	4.0 GPM (15.1 L/m)	4.5 GPM (17.0 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	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 - 12" WC						
Natural gas manifold pressure (min-max)	2.80" WC 0.70" WC	2.25" WC 0.57" WC	2.81" WC 0.57" WC	2.23" WC 0.69" WC	2.36" WC 0.57" WC	2.99" WC 0.57" WC	
Propane gas manifold pressure (min-max)	9.50" WC 1.38" WC	9.28" WC 1.31" WC	9.52" WC 1.31" WC	8.34" WC 1.26" WC	8.28" WC 1.26" WC	8.87" WC 1.26" WC	
Minimum flow rate	0.5 GPM (1.9 L/m)						
Connection sizes	Cold water inlet Hot water outlet Gas inlet 3/4" NPT						
Power supply	Max supply	120V AC, 60 Hz					
	Normal	90 W	90 W	100 W	90 W	90 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, AFRS, overheat protection, 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.



## Warranty

	Application	Labor	Parts	Heat Exchanger
Residential	Standard	1 year	3 years	10 years
	Uncontrolled Recirculation*	1 year	3 years	5 years
Commercial or Combi†	Standard	1 year	3 years	5 years
	Uncontrolled Recirculation*	1 year	3 years	3 years

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

†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 [www.Navieninc.com](http://www.Navieninc.com).



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# Navien Service Manual

**Hussin A.Rothana**



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