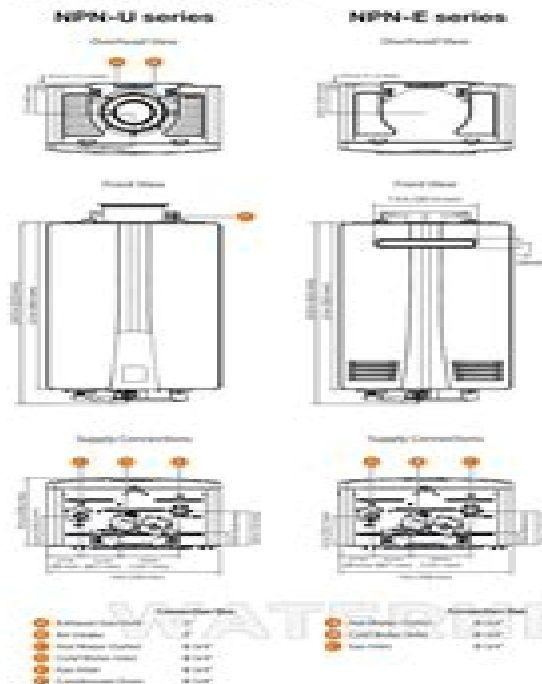


## Dimensions



## Ratings & specifications

Item		NPN-Universal Model			NPN-Exterior Model		
		NPN-100U	NPN-100U	NPN-100U	NPN-100E	NPN-100E	NPN-100E
Heat capacity (input) natural gas/propane gas		10,700- 160,000 (BTU/h)	10,700- 160,000 (BTU/h)	10,700- 160,000 (BTU/h)	10,700- 160,000 (BTU/h)	10,700- 160,000 (BTU/h)	10,700- 160,000 (BTU/h)
Efficiency Rating for NG & LP		0.81 UEF					
Flow rate (GPM)	35°F (19°C) temp rise	7.6 GPM (28.8 L/m)	8.5 GPM (32.2 L/m)	9.5 GPM (35.0 L/m)	7.6 GPM (28.8 L/m)	8.5 GPM (32.2 L/m)	9.5 GPM (35.0 L/m)
	45°F (23°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)	6.6 GPM (25.0 L/m)	7.4 GPM (28.0 L/m)
	57°F (27°C) temp rise	4.0 GPM (15.1 L/m)	4.6 GPM (17.0 L/m)	5.0 GPM (18.9 L/m)	4.0 GPM (15.1 L/m)	4.6 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)	55.0 lbs. (25 kg)	55.0 lbs. (25 kg)	55.0 lbs. (25 kg)	55.0 lbs. (25 kg)	55.0 lbs. (25 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, 0.50" WC	2.81" WC, 0.50" WC	3.23" WC, 0.69" WC	2.38" WC, 0.50" WC	2.99" WC, 0.50" WC
Propane gas manifold pressure (min-max)		5.50" WC, 1.38" WC	5.28" WC, 1.31" WC	5.52" WC, 1.31" WC	6.34" WC, 1.35" WC	5.38" WC, 1.28" WC	6.07" WC, 1.28" WC
Minimum flow rate		0.5 GPM (1.9L/m)					
Connection size	Cold water inlet Hot water outlet Gas inlet	3/4" NPT					
	Main supply	120V AC, 60 Hz					
Power supply	Normal	90 W	90 W	120 W	90 W	90 W	120 W
	Standby	4 W					
	Anti-frost	114 W					
	External pump, if use	< 150 W, 1.5 A, 5.0 A					
Materials	Casing	Cold rolled carbon steel					
	Heat exchanger	Stainless steel					
Safety devices		Flame rod, APR, 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.



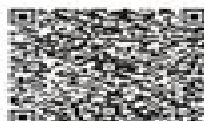
## Warranty

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

**John Harold Haynes, Tim Parker**



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## **Table of Contents Navien Service Manual**

1. Understanding the eBook Navien Service Manual
  - The Rise of Digital Reading Navien Service Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Navien Service Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Navien Service Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Navien Service Manual
  - Personalized Recommendations
  - Navien Service Manual User Reviews and Ratings
  - Navien Service Manual and Bestseller Lists
5. Accessing Navien Service Manual Free and Paid eBooks
  - Navien Service Manual Public Domain eBooks
  - Navien Service Manual eBook Subscription Services
  - Navien Service Manual Budget-Friendly Options
6. Navigating Navien Service Manual eBook Formats

- ePub, PDF, MOBI, and More
- Navien Service Manual Compatibility with Devices
- Navien Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Navien Service Manual
  - Highlighting and Note-Taking Navien Service Manual
  - Interactive Elements Navien Service Manual
- 8. Staying Engaged with Navien Service Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Navien Service Manual
- 9. Balancing eBooks and Physical Books Navien Service Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Navien Service Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Navien Service Manual
  - Setting Reading Goals Navien Service Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Navien Service Manual
  - Fact-Checking eBook Content of Navien Service Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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