

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 (18.9 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 (see kit option for outdoor)			Only outdoor wall-hung		
Venting type	Concentric			No-venting (outdoor installation only)		
Ignition type	Electronic ignition					
Water pressure	75-150 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	2.20" WC 0.60" WC	2.36" WC 0.50" WC	2.99" WC 0.50" WC
Propane gas manifold pressure (min-max)	9.50" WC 1.38" WC	9.28" WC 1.31" WC	9.50" WC 1.31" WC	9.34" WC 1.35" WC	9.28" WC 1.28" WC	9.87" WC 1.28" WC
Minimum flow rate	0.5 GPM (1.9 L/m)					
Connection size	Cold water inlet	3/4" NPT				
	Hot water outlet Gas inlet	3/4" NPT				
Power supply	Main supply	120V AC, 60 Hz				
	Normal	90 W	90 W	90 W	90 W	100 W
	Standby	4 W				
	Anti-frost	114 W				
	External pump	< 150 W, 1.5 A				
Materials	Flue	5.0 A				
	Casing	Cold rolled carbon steel				
Safety devices	Heat exchanger	Stainless steel				
		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 to verify you have the most current information.



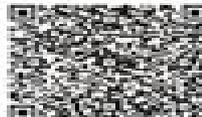
Warranty

	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.



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NON-CONDENSING TANKLESS REINVENTED

Navien Service Manual

Emilie Sanchez



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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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persuasive techniques symbolism cartoonists use simple objects or symbols to stand for larger concepts or ideas after you

identify the symbols in a cartoon think about what the cartoonist means each symbol to stand for

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web 1 symbol and metaphor 2 visual distortion 3 irony in words and images 4 stereotype and caricature 5 an argument not a

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web explain ways that people can become informed before developing views about issues and institutions identify artistic and persuasive techniques used in political cartoons analyze issues addressed in political cartoons use research evidence to formulate an opinion on an issue expressed in a political cartoon

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web jul 17 2023 draw a political cartoon for an issue or a cause have students draw editorial cartoons about a school community or national issue post the cartoons on the walls around the classroom and host a gallery walk ask the class to evaluate the accuracy and truthfulness of each cartoon analyze a political cartoon as a primary source

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web this political cartoon by lisa benson demonstrates the effects of symbolism analogy and exaggeration in satirical illustrations there are two women sitting on a sofa one appearing more put together and mature as she reads the newspaper the other is holding a heart shaped box with obama written on the outside

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web compare two political cartoons that are on the same side of an issue identify the different methods like symbols allusions or exaggeration that the two cartoons use to persuade their audience advanced select a political cartoon think about the point of view of the cartoonist describe or draw how the cartoon might be different if

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web jan 16 2023 1 scan the cartoon for recognizable symbols or figures when you first look at a political cartoon quickly identify the main visual elements can you recognize any people like politicians or celebrities what kinds of expressions are they making how about any major symbols or places like the capital or a country

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web uncle sam u s government american people sphinx a great king with absolute power tortoise someone who moves slowly

a winner hare someone who moves quickly a loser capitol building dome congress white house the president scales a balance supreme court justice fairness eagle american government the constitution laurel wreath

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web working with primary sources like cartoons drawings paintings and photographs can sometimes prove to be challenging particularly if you have little experience analyzing images political cartoons for example appear in newspapers across the country everyday but they cannot be read in the same way as editorials and other articles

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web introduction to lessons political cartoons or satires as they were referred to in the eighteenth century have provided a visual means by which individuals could express their opinions they have been used throughout history to engage viewers in a discussion about an event issue or individual

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web at this time explain to students that there are two areas to look at when evaluating political cartoons the subject and the artistic techniques these two areas help us to understand the meaning or message the artist is trying to convey 1 begin this session by asking students the purpose of political cartoons

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web analyzing a political cartoon can lead to a deeper understanding of the issues addressed by the cartoon as well as the historical context from which the issues arose however it can also raise interesting questions about the point of view of the cartoonist and shed light on the methods different cartoonists use to persuade their audience

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web in this activity students will closely examine political cartoons about the stamp act make inferences about the political social and economic situations depicted therein and offer informed speculations concerning each creator s point of view

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