

Dimensions



Ratings & specifications

Item	NPN-Universal Model			NPN-Exterior Model		
	NPN-100U	NPN-150U	NPN-200U	NPN-150E	NPN-180E	NPN-199E
Heat capacity (input) natural gas/propane gas	50,700- 150,000 (BTU/h)	50,700- 150,000 (BTU/h)	50,700- 150,000 (BTU/h)	50,700- 150,000 (BTU/h)	50,700- 150,000 (BTU/h)	50,700- 150,000 (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)	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 (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 0.53" WC	2.81" WC 0.53" WC	2.25" WC 0.69" WC	2.38" WC 0.53" WC	2.99" WC 0.53" 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	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	90 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	Standard	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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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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web calculate the size of the single phase transformer solution secondary voltage 240v load current 62.5a transformer rating $p = v \times i$ putting the values $p = 240v \times 62.5a = 15000\ va = 15\ kva$ sizing a three phase transformer rating of a three phase transformer $p = 3 \times v \times i$ where v primary or secondary voltage

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web apr 15 2023 for 3 phase transformers the primary full load current i_e the current in the primary windings is equal to $i_p = \frac{p}{3 \times v_p}$ where i_p ka the current flowing through the primary windings p kva the rated 3 phase power of the transformer v_p kv the 3 phase voltage at the primary windings