

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	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 (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 0.57" 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	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 sizes	Cold water inlet Hot water outlet Gas inlet 3/4" NPT						
Power supply	Min 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					
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.



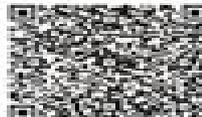
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	Application	Labor	Parts	Heat Exchanger
Residential	Standard	1 year	3 years	10 years
	Uncontrolled Recirculation*	1 year	3 years	5 years
Commercial or Combi†	Standard	1 year	3 years	5 years
	Uncontrolled Recirculation*	1 year	3 years	3 years

*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 DWH 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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web so basing on my understanding of this so far an atom is an element that has the same number of protons and neutrons an ion is an element that has different numbers of protons and electrons an ion is positive when it has more protons than electrons and negative when it has more electrons than ions while isotopes are the same element with

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web figure pageindex 2 the formation of a chlorine ion on the left the chlorine atom has 17 electrons on the right the chloride ion has 18 electrons and has a 1 charge with two oppositely charged ions there is an electrostatic attraction between them because opposite charges attract

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