

## 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 (33°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)	60.0 lbs. (27 kg)	55.0 lbs. (25 kg)	55.0 lbs. (25 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, 0.50" WC	2.81" WC, 0.50" WC	2.23" 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	5.50" WC, 1.31" WC	5.34" WC, 1.35" WC	5.38" WC, 1.28" WC	5.81" 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, AFS, Overheat protection, ignition operation detector.					

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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web a what is the source of all energy in the pyramid in model 1 b how much energy does this source provide to a square meter of the earth per year be sure your answer includes units label the pyramid levels in model 1 with the following primary producers primary consumers secondary consumers and tertiary consumers

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web consider model 1 a what two terms are used to describe the enthalpy changes for the reactions b what is the symbol for the change in enthalpy c what sign or does the change in enthalpy have when the reaction releases heat energy to the surroundings 2 pogil activities for ap biology 2 refer to model 1

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web energy level 5 to energy level 2 refer to models 1 and 2 for the following questions a label the picture with n 5 to n 2 and list the corresponding color of light emitted b this electron transition absorbs releases energy c this electron moves from a lower higher energy state to a lower higher energy state d

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web jul 24 2020 1 the diagram of atp in model 1 has three parts use your knowledge of biomolecules to label the molecule with an adenine section a ribose sugar section and a phosphate groups section 2 refer to model 1 a what is meant by the tri in the name adenosine triphosphate 3 phosphates b

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