

Item		NPN-Universal Model			NPN-Exterior Model		
		NPN-100U	NPN-120U	NPN-150U	NPN-100E	NPN-120E	NPN-150E
Heat capacity (Btu/h) natural gas/propane gas		10,700- 190,000 (BTU/h)	10,700- 190,000 (BTU/h)	10,700- 190,000 (BTU/h)	10,700- 190,000 (BTU/h)	10,700- 190,000 (BTU/h)	10,700- 190,000 (BTU/h)
Efficiency Rating for NG & LP		0.81 UEF			0.81 UEF		
Flow rate (GPM)	35°F (15°C) temp rise	7.6 GPM (28.3 L/m)	8.5 GPM (32.2 L/m)	9.5 GPM (35.0 L/m)	7.6 GPM (28.3 L/m)	8.5 GPM (32.2 L/m)	9.5 GPM (35.0 L/m)
	45°F (22°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)
	55°F (30°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)	5.0 GPM (18.9 L/m)
Dimensions		14.0" W x 23.0" H x 9.3" D			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 (vent kit option for outdoor)			Only outdoor wall-hung		
Venting type		Concentric			No venting outdoor installation only		
Ignition type		Electronic ignition			Electronic ignition		
Water pressure		15-150 PSI			15-150 PSI		
Natural gas supply pressure (from source)		3.5" WC - 10.5" WC			3.5" WC - 10.5" WC		
Propane gas supply pressure (from source)		8" WC - 10" WC			8" WC - 10" 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	2.90" WC, 0.53" WC
Propane gas manifold pressure (min-max)		5.50" WC, 1.38" WC	5.28" WC, 1.31" WC	6.50" WC, 1.31" WC	5.34" WC, 1.38" WC	5.35" WC, 1.28" WC	6.61" WC, 1.28" WC
Minimum flow rate		0.5 GPM (1.9 L/m)			0.5 GPM (1.9 L/m)		
Connection size	Cold water inlet	3/4" NPT			3/4" NPT		
	Hot water outlet	3/4" NPT			3/4" NPT		
	Gas inlet	3/4" NPT			3/4" NPT		
Power supply	Main supply	120V AC, 60 Hz			120V AC, 60 Hz		
	Normal	90 W	98 W	120 W	90 W	98 W	120 W
	Standby	4 W	4 W	4 W	4 W	4 W	4 W
Power supply	Anti-frost	114 W			114 W		
	External pump	< 150 W, 1.5 A			< 150 W, 1.5 A		
	Fuel	5.0 A			5.0 A		
Materials	Casing	Cold rolled carbon steel			Cold rolled carbon steel		
	Heat exchanger	Stainless steel			Stainless steel		
Safety devices		Flame rod, APS, overheat protection, ignition operation detector			Flame rod, APS, 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.



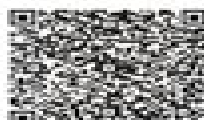
Application		Labor	Parts	Heat Exchanger
Residential	Standard	1 year	3 years	10 years
	Uncontrolled Recirculation <sup>2</sup>	1 year	3 years	5 years
Commercial or Comb <sup>2</sup>	Standard	1 year	5 years	5 years
	Uncontrolled Recirculation <sup>2</sup>	1 year	3 years	3 years

<sup>3</sup>Combi refers to a combination potable-water and space heating application. Water heaters cannot be used in space heating-only applications.

[illegible]

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.

Five compounds that are present in the 2000 assessment are also present in the



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**G Psacharopoulos**



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the ad831 is a low distortion wide dynamic range monolithic mixer for use in such applications as rf to if down conversion in hf and vhf receivers the second mixer in dmr base

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the direct conversion transmitter starts with an active double balanced gilbert cell followed by a driver amplifier a 9 1 frequency multiplier circuit realized by two successive tripler stages

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