

NPE-A2 and NPE-S2 Condensing Tankless Water Heaters

The best selling high-efficiency condensing tankless water heaters in North America





Innovative advancements in the NPE-2 condensing tankless water heaters make it easier than ever to go tankless.

PE-2 PREMIUM EFFICIENCY CONDENSING TANKLESS WATER HEATERS

Navien...the proven leader in condensing tankless, makes it even easier to sell, install and set up with new NPE-2 series

Cuts installation time in half

Thanks to using 1/2" gas pipe and 2" PVC venting, you can install a Navien tankless water heater in about half the time as competitive tankless heaters. Not to mention, Navien EZNav™ intuitive controls with setup wizard makes startup a simple and fast process.

Fewer callbacks, longer life, faster heating

Navien was first to offer dual stainless steel heat exchangers which helps extend the life of the unit by resisting corrosion.

Saves energy, easier on the planet

Navien condensing stainless steel heat exchangers recover extra heat that would be lost in non-condensing units. Lower CO₂ emissions and low exhaust temperatures allows for less expensive venting materials like schedule 40 PVC.



NPE-2 temperature rise

Temp Rise (°F)			210A2/S2 GPM (L/m)	240A2/S2 GPM (L/m)	
35	6.8 (26)	8.4 (32) 10.1 (38)		11.2 (42)	
40	5.9 (22)	7.4 (28)	8.8 (33)	9.8 (37)	
45	5.3 (20)	6.5 (25)	7.8 (30)	8.7 (33)	
50	4.8 (18)	5.9 (22)	7.1 (27)	7.8 (30)	
55	4.3 (16)	5.3 (20)	6.4 (24)	7.1 (27)	
60	4.0 (15)	4.9 (19)	5.9 (22)	6.5 (25)	
65	3.7 (14)	4.5 (17)	4.5 (17) 5.4 (20)		
70	3.4 (13)	4.2 (16)	5.0 (19)	5.6 (21)	
75	3.2 (12)	3.9 (15)	4.7 (18)	5.2 (20)	
80	3.0 (11)	3.7 (14)	4.4 (17)	4.9 (19)	
85	2.8 (11)	3.5 (13)	4.2 (16)	4.6 (17)	
90	2.6 (10)	3.3 (12)	3.9 (15)	4.4 (17)	
100	2.4 (9)	2.9 (11)	3.5 (13)	3.9 (15)	
110	2.2 (8)	2.7 (10)	2.7 (10) 3.2 (12) 3.6 (14)		
120	2.0 (8)	2.5 (9)	2.9 (11)	3.3 (12)	
130	1.8 (7)	2.3 (9)	2.7 (10)	3.0 (11)	
140	1.7 (6)	2.1 (8)	2.5 (9)	2.8 (11)	

NPE-2 DHW capacity

Models	Natural gas (BTU/H)	Propane gas (BTU/H)
NPE-150S2	18,000-120,000	18,000–120,000
NPE-180A2/S2	10,000-150,000	10,000–150,000
NPE-210A2/S2	12,000-180,000	12,000–180,000
NPE-240A2/S2	13,300-199,900	13,300–199,900

NPE-2 operating cost

Navien tankless	179 therms	3195*		
Other tankless	209 therms	\$228*		
Standard tank	269 therms	\$293*		

^{*}Based on Energy Guide cost estimates using \$1.09 per therm of natural gas. Cost is in US dollars.

U.S. Green Building Council LEED Points*

Water heater	Location	Recirculation		
1.5 Points	2 Points	3 Points		

Lower HERS home index score*

*Please consult your Energy/LEED consultant.

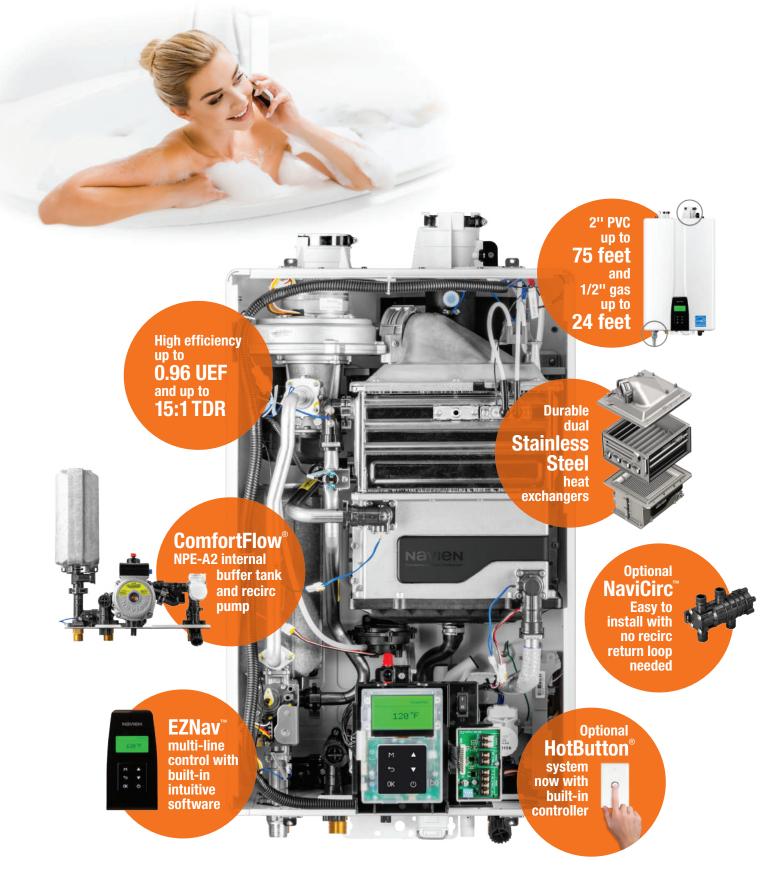
NPE-2 warranty

	Application	Labor	Parts	Heat exchanger
Residential	Standard or controlled recirculation	1 year	5 years	15 years
	Uncontrolled recirculation	1 year	3 years	5 years
Commercial or Combi*	Standard or controlled recirculation	1 year	5 years	8 years
or Combi	Uncontrolled recirculation	1 year	3 years	3 years

 $^{^{\}star}\text{Combi}$ refers to a combination potable water and space heating application.

Water heaters cannot be used in space heating only applications.

For complete details please refer to the full warranty at Navieninc.com.



It's **easy** to spot why Navien NPE-2 is the best selling condensing tankless...**again**



NPE-A2

NAVIEN PREMIUM EFFICIENCY ADVANCED CONDENSING TANKLESS WATER HEATERS

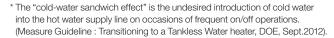


Our advanced ultra high efficiency tankless technology with built in recirc pump, buffer tank and more

ComfortFlow

NPE-A2 built-in recirculation system

Navien's patented ComfortFlow® system is the first to include a buffer tank, recirculation pump and fine-tuned controls into a tankless water heater, resolving the cold-water sandwich effect* and issues of minimal flow rates commonly found in other tankless water heaters.



























Multi-line control with built-in intuitive software

Navien's new backlit EZNav™ control panel uses simple text and icons to make set up, operation status and troubleshooting faster and easier than ever before.





Optional NPE-2 recirculation valve

Designed for recirculation of domestic hot water in applications where a dedicated return line is not available. External pump neccessary for NPE-S2 not included.



HøtButton®

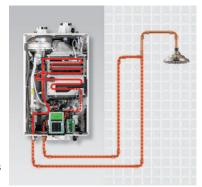
Optional NPE-2 hot water activation system

At the push of a button, the HotButton® hot water system

activates internal recirculation pump and gas fired burner to heat water in the supply lines to provide hot water only when needed. NPE-2 comes with a built-in HotButton controller.



External pump neccessary for NPE-S2 is not included.

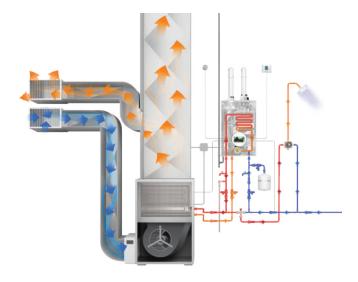


H₂Air_®

NPE-A2 combination heating & DHW system

The optional H2Air® Kit utilizes the NPE-A2 pump to circulate the hot water for the hydronic air handler.

This removes the need to purchase an additional circulator for the heating system. Designed for retrofit and new construction, the Navien H2Air Kit includes an add-on controller to integrate space heating and DHW between any NPE-A2 Series tankless water heater and a hydronic air handler.





NPE-S2

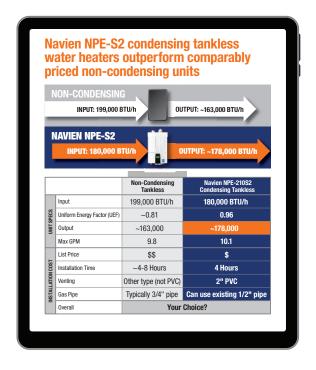
NAVIEN PREMIUM EFFICIENCY STANDARD CONDENSING TANKLESS WATER HEATERS



Our standard ultra high efficiency tankless with higher performance and technology

When it comes to water heater performance... it's all about the output

The NPE-S2 condensing tankless water heaters are so efficient that they outperform much larger capacity non-condensing competitors. More output for the money, lower installation costs and lower operating costs for customers making it the best choice for your next installation.







2"VENT 2 1/"GAS 2 UP TO 75 FEET 24 FEET











With Navien cascading technology, when a unit gets up to 80% capacity the next unit will turn on to help meet requirements. This demand ratio will continue until all 32 units are generating hot water. The Navien cascading system also balances out the workload of each unit for longer life. Building penetrations are reduced with Navien's common venting feature.



More innovative accessories for NPE-2 tankless water heaters



Optional Wi-Fi remote control system





These add-on accessories will enable customers with smartphones and tablets to control temperatures remotely, access usage data and receive diagnostic notifications on all Navien NPE-A2 and NPE-S2 tankless water heaters. NaviLink can support up to 24 Navien units and NaviLink Lite can support 1 Navien unit.

Ready-Link®

Modular manifold mounting on wall or rack

- Simply no waiting for custom racks
- Simply easy to install, easy to assemble
- Simply more profitable
- Simply visit your local Navien wholesaler and pick up everything you need for your installation today.





Dimensions

NPE-A2 NPE-S2 Front View Front View Supply Connections Air Intake Exhaust Gas Vent Ф 2" Exhaust Gas Vent Ф 2* Hot Water Outlet Hot Water Outlet Gas Inlet Ф 3/4" Ф 3/4" Condensate Outlet Cold Water Inlet Recirculation Inlet

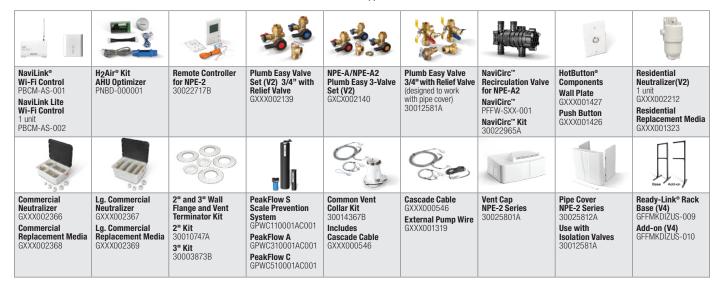
Specifications

Item		NPE-150S2	NPE-180A2	NPE-180S2	NPE-210A2	NPE-210S2	NPE-240A2	NPE-240S2	
Heat capacity (input)	Natural gas	18,000- 120,000 BTU/H	10,000–150,000 BTU/H		12,000–180,000 BTU/H		13,300-199,900 BTU/H		
Energy factor	UEF (for NG & LP)	0.93	0.95	0.96	0.95	0.96	0.95	0.96	
	35°F (19°C) temp rise	6.8 GPM (26 L/m)	8.4 GPM (32 L/m)		10.1 GPM (38 L/m)		11.2 GPM (42 L/m)		
Flow rate (DHW)	45°F (25°C) temp rise	5.3 GPM (20 L/m)	6.5 GPM (25 L/m)		7.8 GPM (30 L/m)		8.7 GPM (33 L/m)		
	67°F (36°C) temp rise	3.4 GPM (13 L/m)	4.3 GPM (16 L/m)	4.4 GPM (17 L/m)	5.1 GPM (19 L/m)	5.3 GPM (20 L/m)	5.6 GPM (21 L/m)	5.8 GPM (22 L/m)	
Dimensions		17.3" (W) x 27.4" (H) x 13.2" (D)							
Weight		62 lbs (28 kg)	73 lbs (33 kg)	68 lbs (31 kg)	77 lbs (35 kg)	73 lbs (33 kg)	77 lbs (35 kg)	73 lbs (33 kg)	
Installation type)	Indoor or outd	Indoor or outdoor wall-hung						
Venting type		Forced draft direct-vent							
Ignition		Electronic ignition							
Water pressure		15-150 PSI							
Natural gas sup (from source)	pply pressure	3.5" WC-10.5" WC							
Propane gas supply pressure (from source)		8" WC-13" WC							
Natural gas ma (min-max)	nifold pressure	-0.04" WC- -0.40" WC	-0.03" WC- -0.55" WC		-0.03" WC- -0.76" WC		-0.03" WC- -0.96" WC		
Propane gas m (min-max)	anifold pressure	-0.03" WC- -0.40" WC	-0.02" WC- -0.55" WC		-0.02" WC- -0.76" WC -0.96" WC				
Minimum flow r	ate	0.5 GPM (1.9 L/m), < 0.01 GPM (0.04 L/m) option for "A2" models*							
0	Cold water inlet	3/4" NPT							
Connection sizes	Hot water outlet	3/4" NPT							
01200	Gas inlet	3/4" NPT							
	Main supply	120V AC, 60 Hz							
Power supply	Maximum power consumption								
	Casing	Cold rolled carbon steel							
Materials	Heat exchangers	Primary heat exchanger: stainless steel Secondary heat exchanger: stainless steel							
	Exhaust	2" or 3" PVC, CPVC, approved polypropylene and stainless steel 2" or 3" special gas vent type BH (Class II, A/B/C)							
Venting	Intake	2" or 3" PVC, CPVC, approved polypropylene and stainless steel 2" or 3" special gas vent type BH (Class II, A/B/C)							
	Vent clearances	0" to combust	ibles						
High elevations		10,100 feet for both NG or LP gas. Please refer to Installation Manual for additional details and instructions.							
Safety devices		Flame rod, APS, ignition operation detector, water temperature high limit switch, exhaust temperature high limit sensor, power surge fuse, burner high limit fuse, vent installation detector (VID)							
Certifications		(A) (NSF) (A-1704) CERTIFIED							

"Available for "A2" models configured in an optional ComfortFlow® recirculation mode. Energy consumption will increase when the system is configured for recirculation. Navien reserves the right to change specifications at any time without prior notice. Please refer to navieninc.com to verify you have the most current information.

Accessories

Cold Water Inlet



Navien Inc., 20 Goodyear, Irvine, CA 92618 800-519-8794 navieninc.com Navien Canada, Inc., 555 Hanlan Rd., Unit 7 Vaughan, ON L4L 4R8 800-519-8794 navieninc.ca



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