

NPE-A and NPE-S Condensing Tankless Water Heaters

Navien makes it easy to go tankless in residential and commercial applications.



New NaviLink Wi-Fi remote control system...Now available as an add-on accessory.

THE LEADER IN CONDENSING TECHNOLOGY

NPE-Advanced

Our advanced high efficiency condensing tankless water heater technology with the only internal pump and buffer tank





ComfortFlow

Exclusive built-in recirculation system included on all NPE-A models

Navien ComfortFlow® is the first and only system that incorporates a built-in insulated buffer tank and recirculation pump. The buffer tank eliminates the "cold water sandwich" effect and issues of minimum flow rates commonly found in other tankless water heaters. The recirculation pump saves on water bills by reducing the time to get hot water. When activated, the optional ComfortFlow mode results in additional energy usage.



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NPE-Standard

Our standard ultra condensing tankless technology with the industry's top rated unit for energy efficiency





NPE-A and NPE-S series facts

Temperature rise

Temp rise (°F)	NEW 150S GPM	180 series GPM	210 series GPM	240 series GPM
35	6.8	8.4	10.1	11.2
40	5.9	7.4	8.8	9.8
45	5.3	6.5	7.8	8.7
50	4.8	5.9	7.1	7.8
55	4.3	5.3	6.4	7.1
60	4.0	4.9	5.9	6.5
65	3.7	4.5	5.4	6.0
70	3.4	4.2	5.0	5.6
75	3.2	3.9	4.7	5.2
80	3.0	3.7	4.4	4.9
85	2.8	3.5	4.2	4.6
90	2.6	3.3	3.9	4.4
100	2.4	2.9	3.5	3.9
110	2.2	2.7	3.2	3.6
120	2.0	2.5	2.9	3.3
130	1.8	2.3	2.7	3.0
140	1.7	2.1	2.5	2.8

DHW capacity

Models	Natural gas (BTU/H)	Propane gas (BTU/H)		
NEW NPE-150S	18,000–120,000	18,000–120,000		
NPE-180 A/S series	15,000–150,000	15,000–150,000		
NPE-210 A/S series	19,900–180,000	19,900–180,000		
NPE-240 A/S series	19,900–199,900	19,900–199,900		

Operating cost

Navien tankless	175 therms \$191*					
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 Point	2 Points	3 Points	

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
	Standard or controlled recirculation for units produced on or after Jan. 1, 2016	1 year	5 years	8 years
Commercial or Combi*	Standard or controlled recirculation for units produced before Jan. 1, 2016	1 year	3 years	10 years
	Uncontrolled recirculation ³	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.

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

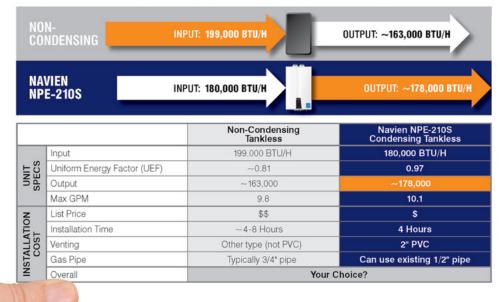
Lower HERS home index score



NPE-Standard

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

Navien NPE-S condensing tankless water heaters outperform comparably priced non-condensing units



The NPE-S 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 makes it a smart choice.



Cascade up to 16 units

With Navien cascading technology, when a unit gets up to 80% capacity the next unit will turn on to help meet requirements. This flow and demand ratio will continue until all 16 units are generating hot water as needed. The Navien cascading system also balances out the workload of each unit for longer life.

Common vent up to 8 units

Building penetrations are reduced with Navien's common venting feature.

World-class quality

The global leader in energy efficient technology

KD Navien was an early leader in developing condensing technology for boilers and water heaters. Condensing technology maximizes energy savings by capturing additional heat from the flue gases. As a result, energy consumption and greenhouse gases are significantly reduced.

Easy to sell, easy to install

Cuts installation time in half

Thanks to using ½" gas pipe and 2" PVC venting, you can install a Navien tankless water heater in about half the time as competitive tankless heaters.

Fewer callbacks, longer life, faster heating

Navien was first to offer dual stainless steel heat exchangers, rather than copper, which extends the life of the unit by resisting corrosion.

Energy Star highest rated gas water heater

The NPE is the most energy efficient* tankless water heater in the industry. Our condensing technology delivers performance up to 0.97 UEF/0.99 EF.

*EPA Energy Star Directory.

Contractors recommend Navien for its stainless steel heat exchanger. "It will last a lot longer than copper heat exchangers on other tankless units."

J. Richards



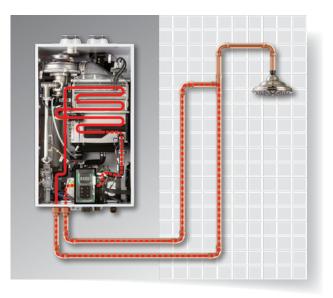
Brian Palm, Director of Sustainability and an environmental science teacher said, "Our tank system was more than 10 years old and from an efficiency perspective, we had some potential for savings." He calculates the new Navien system will save the school \$20,000 a year.

THE LEADER IN CONDENSING TECHNOLOGY

NPE-Advanced

Optional on-demand recirculation accessory

At the push of a button, the Navien HotButton activates the internal recirculation pump and gas fired burner to heat up the water in the supply lines. This gives your customers hot water when they need it, saving water and money. This add-on accessory is available on all NPE-A series tankless water heater models, and is California Title 24 compliant.



H2Air Combination space heating and DHW

The H₂Air Kit utilizes the NPE-A 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 both retrofit and new construction residential applications, Navien's H₂Air Kit* consists of an add-on controller that allows for space heating and DHW system integration between NPE-A series tankless water heater models and a hydronic air handler.



Optional new Wi-Fi remote control system

This add-on accessory will enable customers with smartphones and tablets to control temperatures remotely, access usage data and receive diagnostic notifications on all Navien products (NPE-A, NPE-S, NCB-E, NHB). Existing installations/stock may require the purchase of a new main PCB and front control panel.

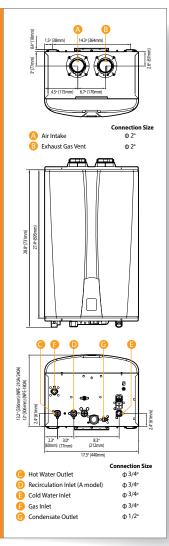




H₂Air is compatible with hydronic air handler models that require W1/W2/R terminals along with single or dual-stage thermostats.**

*Compatible with NPE-A series units produced on or after May 31, 2014. **Self-powered thermostats only.

Dimensions



Specifications

Item		Model							
		NPE-150S	NPE-180A	NPE-180S	NPE-210A	NPE-210S	NPE-240A	NPE-240S	
Heat	Natural gas	18,000-							
capacity (input)	Propane gas	120,000 BTU/H	15,000–150,0	15,000–150,000 BTU/H		19,900-180,000 BTU/H		19,900–199,900 BTU/H	
Efficiency	UEF (NG & LP)	0.96	0.96	0.97	0.96	0.97	0.96	0.97	
ratings	EF (Canada NG & LP)	0.97	0.97	0.99	0.97	0.99	0.97	0.99	
	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	6.5 GPM (25 L/m)		7.8 GPM (30 L/m)		8.7 GPM (33 L/m)	
	67°F (36°C) temp rise	3.2 GPM (12 L/m)	4.3 GPM (16 L/m)	4.2 GPM (16 L/m)	5.0 GPM (19 L/m)	5.2 GPM (20 L/m)	5.6 GPM (21 L/m)	5.7 GPM (22 L/m)	
Dimensions		17.3"W x 27.4	"H x 13.2"D						
Weight		55lbs (25kg)	75lbs (34kg)	67lbs (30kg)	82lbs (37kg)	75lbs (34kg)	82lbs (37kg)	75lbs (34kg)	
Installation ty	/pe	Indoor or out	door wall-hun	g					
Venting type		Forced draft	direct vent						
Ignition		Electronic ignition							
Water pressu	ıre	15-150 PSI							
Natural gas supply pressure (from source)		3.5"-10.5" WC							
Propane gas supply pressure (from source)		8"-13" WC							
Natural gas manifold pressure (min-max)		-0.04" WC to -0.38" WC	-0.04" WC to	-0.84" WC	-0.05" WC to -0.36" WC		-0.05" WC to	-0.05" WC to -0.58" WC	
Propane gas (min-max)	manifold pressure	-0.04" WC to -0.42" WC	-0.05" WC to	-0.50" WC	-0.10" WC to -0.66" WC -0.10" WC to -0.78		-0.78" WC		
Minimum flow	w rate	0.5 GPM (1.9 L/m), < 0.01 GPM (0.04 L/m) option for "A" models*							
	Cold water inlet	3/4" NPT							
Connection sizes	Hot water outlet	3/4" NPT							
31203	Gas inlet	3/4" NPT							
Devues	Main supply	120V AC, 60 Hz							
Power supply Maximum power consumption		200W (max 2A), 350W (max 4A) with external pump connected							
Meteriala	Casing	Cold rolled carbon steel							
Materials	Heat exchangers	Primary heat exchangers: stainless steel, secondary heat exchangers: stainless steel						el	
	Exhaust	2" or 3" PVC, CPVC, polypropylene / 2" or 3" special gas vent type BH (Class II, A/B/C)						3/C)	
Venting	Intake	2" or 3" PVC, CPVC, polypropylene / 2" or 3" special gas vent type BH (Class II, A/B/C)					3/C)		
	Vent clearances	0" to combustibles							
Safety devices						١,			

*Available for "A" models configured in an optional ComfortFlow recirculation mode. Additional energy use will occur when using recirculation. Navien reserves the right to change specifications at any time without prior notice. Please refer to www.navien.com to verify you have the most current information.

Accessories

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NaviLink™ Wi-Fi Control PBCM-AS-001	H₂Air [™] Kit AHU Optimizer PNBD-000001	Remote Controller 30009757A	Cascade Cable GXXX000546 External Pump Wire GXXX001319	Plumb Easy Valve 3/4" with Relief Valve 30009323A	2" and 3" Wall Flange and Vent Terminator Kit 2" – 30010747A 3" – 30003873B	Vent Cap NPE Series 30010604A	Common Vent Collar Kit 30014367A
	620 C			No. A	-		F)
PeakFlow™ Anti-Scale System GXXX001326 PeakFlow™ Replacement Media GXXX001327	Residential Neutralizer (1 unit) GXXX001322 Residential Replacement Media GXXX001323	Light Commercial Neutralizer (up to 6 units) GXXX001324 Light Commercial Replacement Media GXXX001328	Commercial Neutralizer (up to 16 units) GXXX001325 Commercial Replacement Media GXXX001329	Plumb Easy Valve 3/4" with Relief Valve Designed to work with pipe cover 30012581A	Pipe Cover NPE Series 30012634A Use with Isolation Valves 30012581A	HotButton [™] Control Kit PZZZ-00046 Wall Plate GXXX001427 Push Button GXXX001426	Ready-Link® Rack Base GFFM-KDIZUS-001 Ready-Link® Rack Add-on GFFM-KDIZUS-002

NPE-BR002-1711

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