

# 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.



# **NPE-A**dvanced

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









1/2 GAS CAPABILITY UP TO 24 FT

CASSAIL 16

# **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.







RESIDENTIAL & COMMERCIAL



# **NPE-S**tandard

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	
30	6.8	8.4	10.1	11.1	
35	6.8	8.4	10.1	11.1	
40	5.9	7.3	8.7	9.7	
45	5.2	6.5	7.8	8.6	
50	4.7	5.8	7.0	7.8	
55	4.3	5.3	6.3	7.1	
60	3.9	4.9	5.8	6.5	
65	3.6	4.5	5.4	6.0	
70	3.4	4.2	5.0	5.5	
75	3.1	3.9	4.7	5.2	
80	2.9	3.6	4.4	4.8	
85	2.8	3.4	4.1	4.6	
90	2.6	3.2	3.9	4.3	
100	2.4	2.9	3.5	3.9	
110	2.1	2.6	3.2	3.5	
120	2.0	2.4	2.9	3.2	
130	1.8	2.2	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	151 therms	\$165*	
Other tankless	183 therms	\$200*	
Standard tank	250 therms		\$272*

<sup>\*</sup>Based on Energy Guide cost estimates using \$1.09 per therm of natural gas. Price is in US Dollars.

### Lower HERS home index score

### 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	
C	or Combi	Uncontrolled recirculation	1 year	3 years	3 years	

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

## U.S. Green Building Council LEED Points

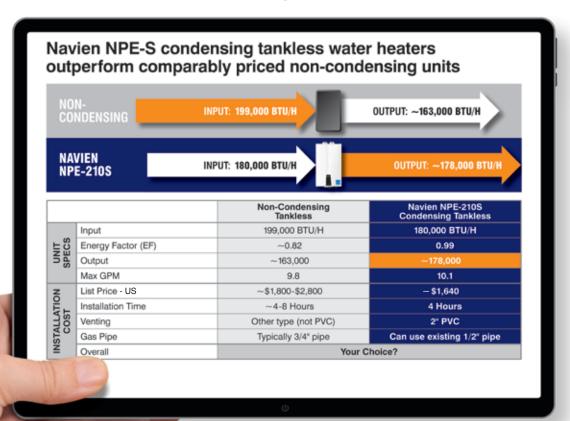
Water heater	Location	Recirculation		
1 Point	2 Points	3 Points		



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

# **NPE-S**tandard

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



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 16 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 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.

### 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.

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.

> 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.



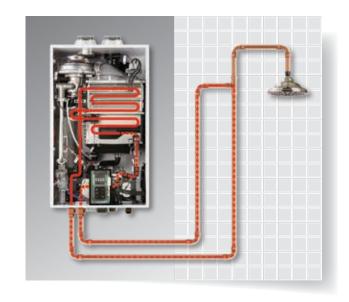


# **NPE-A**dvanced

# **HotButton**

# 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.



# H<sub>2</sub>Air

# Combination space heating and DHW

The H<sub>2</sub>Air 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 H<sub>2</sub>Air 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.





### Dimensions

# Connection Size Air Intake Exhaust Gas Vent Description of the connection of the

### 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	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 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	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	/ре	Indoor or outdoor wall-hung							
Venting type		Forced draft direct vent							
Ignition		Electronic ignition							
Water pressu	ıre	15–150 PSI							
Natural gas s (from source	supply pressure	3.5"-10.5" WC							
Propane gas (from source	s supply pressure	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 -0.58" WC				
Propane gas manifold pressure (min-max)		-0.04" WC to -0.42" WC	-0.05" WC to -0.50" WC -0.10" WC to -0.66" WC -0.10"		-0.10" WC to	-0.10" WC to -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							
SIZES	Gas inlet	3/4" NPT							
_	Main supply	120V AC, 60 Hz							
Power supply Maximum power consumption  Casing		200W (max 2A), 350W (max 4A) with external pump connected							
		Cold rolled carbon steel							
Materials	Heat exchangers	Primary heat exchangers: stainless steel, secondary heat exchangers: stainless steel							
	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)							
	Vent clearances	0" to combustibles							
Safety devices									

\*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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