

New NPE-A2 and NPE-S2 Condensing Tankless Water Heaters

The best selling
condensing
tankless water
heater just got
even better



The original Navien NPE is the leading condensing unit on the market and the new NPE-2 will extend that lead with more advancing technology.

NPE-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, rather than copper, which extends 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-A2
Advanced water heaters

NPE-S2
Standard water heaters



NPE-2 temperature rise

Temp Rise (°F)	150S2 GPM (L/m)	180A2/S2 GPM (L/m)	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)	5.4 (20)	6.0 (23)
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)	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	\$195*
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
	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. For complete details please refer to the full warranty at Navieninc.com.



2" PVC
up to
75 feet
and
1/2" gas
up to
24 feet



High efficiency
up to
0.96 UEF
and up to
15:1 TDR

Durable
dual
**Stainless
Steel**
heat
exchangers



ComfortFlow[®]
NPE-A2 internal
buffer tank and recirc
pump

Optional
NaviCirc[™]
Easy to
install with
no recirc
return loop
needed



EZNav[™]
multi-line
control with
built-in
intuitive
software

Optional
HotButton[®]
system
now with
built-in
controller



It's **easy** to spot why Navien will be 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 ComfortFlow[®] is the first to incorporate a built-in insulated buffer tank and recirculation pump. The insulated buffer tank enables the NPE-A2 to operate at minimal flow rates. The built-in recirculation pump allows the NPE-A2 to recirculate water either through an external recirc line or through existing supply lines while using NaviCirc[®], without the need for external pumps or controls.



EZNav[™]

Multi-line control with built-in intuitive software

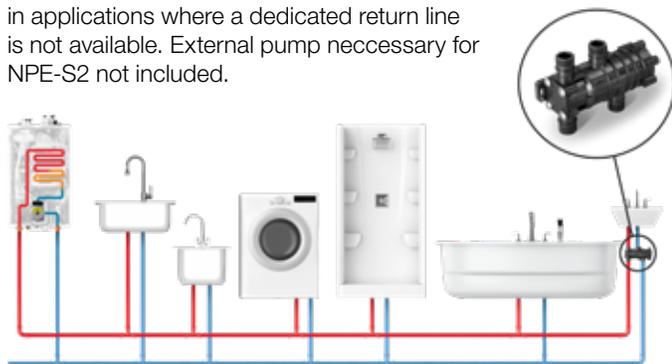
Navien's new backlit EZNav[™] control panel uses simple text and icons to make set up, operation status and troubleshooting faster and easier than ever before.



NaviircTM

Optional NPE-2 recirculation valve

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



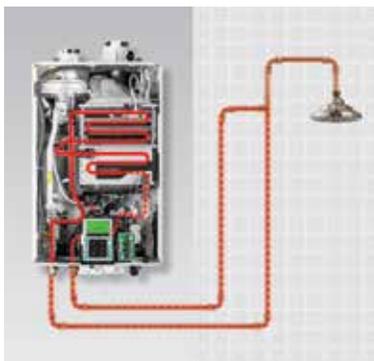
HotButton[®]

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 necessary for NPE-S2 is not included.

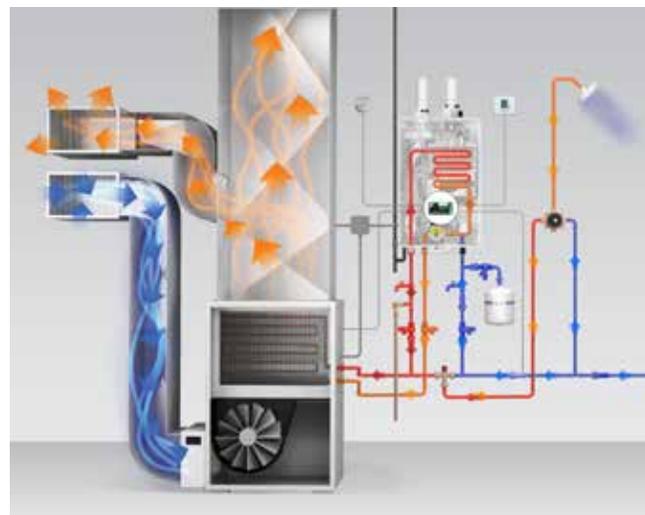


H2Air[®]

NPE-A2 combination heating & DHW system

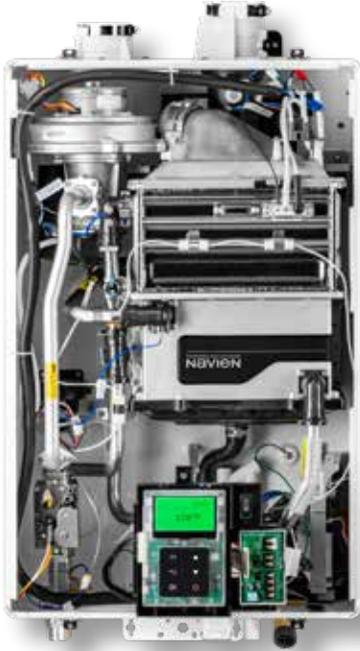
The optional H2Air[®] Kit utilizes the NPE-A2 pump to circulate the hot water for the hydronic air handler.

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.

Navien NPE-S2 condensing tankless water heaters outperform comparably priced non-condensing units

NON-CONDENSING

INPUT: 199,000 BTU/H → [Unit] → OUTPUT: ~163,000 BTU/H

NAVIEN NPE-S2

INPUT: 180,000 BTU/H → [Unit] → OUTPUT: ~178,000 BTU/H

	Non-Condensing Tankless	Navien NPE-210S2 Condensing Tankless
UNIT SPECS		
Input	199,000 BTU/H	180,000 BTU/H
Uniform Energy Factor (UEF)	~0.81	0.96
Output	~163,000	~178,000
Max GPM	9.8	10.1
List Price	\$\$	\$
INSTALLATION COST		
Installation Time	~4-8 Hours	4 Hours
Venting	Other type (not PVC)	2" PVC
Gas Pipe	Typically 3/4" pipe	Can use existing 1/2" pipe
Overall		Your Choice?



Cascade up to 32 units and common vent up to 12 units



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

Navilink®

Optional Wi-Fi remote control system



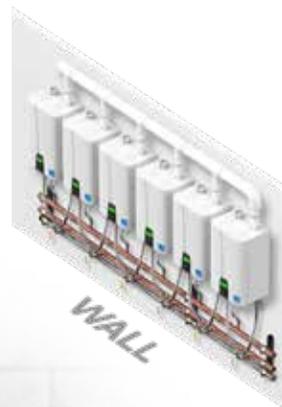
This add-on accessory will enable customers with smartphones and tablets to control temperatures remotely, access usage data and receive diagnostic notifications on all Navien NPE-A2 and NPE-S2 tankless water heaters.



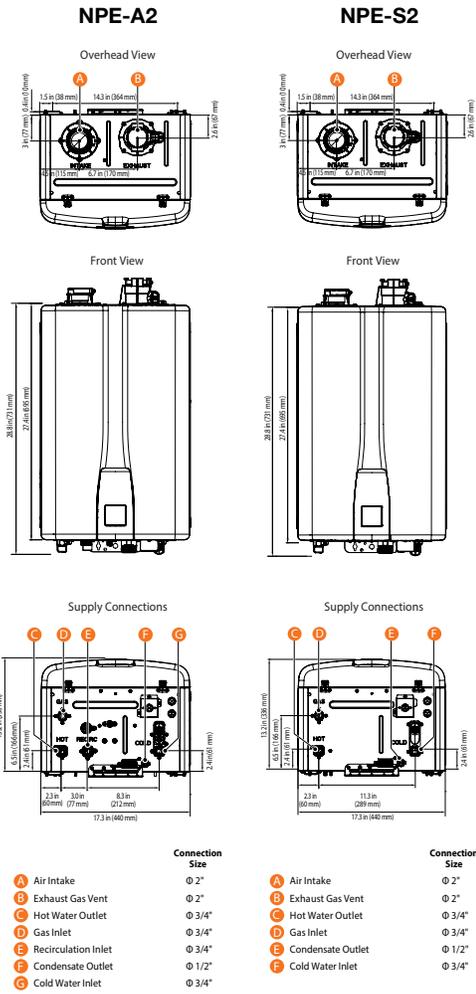
Ready-Link®

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



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
Flow rate (DHW)	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)	
	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)
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 outdoor wall-hung						
Venting type	Forced draft direct-vent						
Ignition	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–13" WC						
Natural gas manifold pressure (min-max)	-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 manifold pressure (min-max)	-0.03" WC– -0.40" WC	-0.02" WC– -0.55" WC		-0.02" WC– -0.76" WC		-0.02" WC– -0.96" WC	
Minimum flow rate	0.5 GPM (1.9 L/m), < 0.01 GPM (0.04 L/m) option for "A2" models*						
Connection sizes	Cold water inlet	3/4" NPT					
	How water outlet	3/4" NPT					
	Gas inlet	3/4" NPT					
Power supply	Main supply	120V AC, 60 Hz					
	Maximum power consumption	200 W (max 2 A), 350 W (max 4 A) with external pump connected					
Materials	Casing	Cold rolled carbon steel					
	Heat exchangers	Primary heat exchanger: stainless steel Secondary heat exchanger: stainless steel					
Venting	Exhaust	2" or 3" PVC, CPVC, approved polypropylene and stainless steel 2" or 3" special gas vent type BH (Class II, A/B/C)					
	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 combustibles					
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)						

*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 www.Navieninc.com to verify you have the most current information.



Accessories

NaviLink® Wi-Fi Control PBCM-AS-001	H2Air® Kit AHU Optimizer PNBD-000001	Remote Controller for NPE-2 30022717B	Plumb Easy Valve 3/4" with Relief Valve 30009323A	Plumb Easy 3 Valve Set for NPE-A2 30022163A	Plumb Easy Valve 3/4" with Relief Valve (designed to work with pipe cover) 30012581A	NaviCirc™ Recirculation Valve for NPE-A2 NaviCirc™ PFFW-SXX-001 NaviCirc™ Kit 30022965A	HotButton® Components Wall Plate GXXX001427 Push Button GXXX001426	Residential Neutralizer 1 unit GXXX001322 Residential Replacement Media GXXX001323
Light Commercial Neutralizer GXXX001324	Commercial Neutralizer GXXX001325	2" and 3" Wall Flange and Vent Terminator Kit 2" Kit 30010747A 3" Kit 30003873B	PeakFlow™ Anti-scale System GXXX001725 PeakFlow™ Replacement Media GXXX001726 PeakFlow™ Replacement Media GXXX001327	Common Vent Collar Kit 30014367B Includes Cascade Cable GXXX000546	Cascade Cable GXXX000546 External Pump Wire GXXX001319	Vent Cap NPE-2 Series 30025801A	Pipe Cover NPE-2 Series 30025812A Use with Isolation Valves 30012581A	Ready-Link® Rack Base (V3) GFFMKDIZUS-005 Add-on (V3) GFFMKDIZUS-006

Navien Inc., 20 Goodyear, Irvine, CA 92618 800-519-8794 Navieninc.com



THE LEADER IN CONDENSING TECHNOLOGY