NHW-S Series

NAVIEN

NEW NHW-S Tankless Water Heaters

Premium non-condensing tankless technology built around our patented NaviTech™ stainless steel burner and heat exchanger



Introducing the NHW-SU and NHW-SE

NAVITECH™ STAINLESS STEEL HX AND BURNER

PREMIUM INTEGRATED CONTROLS

0.81 UEF

98°–140° TEMP RANGE

UP TO 9.5 GPM @ 35° TEMP RISE

RESIDENTIAL & COMMERCIAL

CASCADE CAPABLE

OPTIONAL NaviLink™ WI-FI CONTROL



NHW-SU (Universal)
indoor use



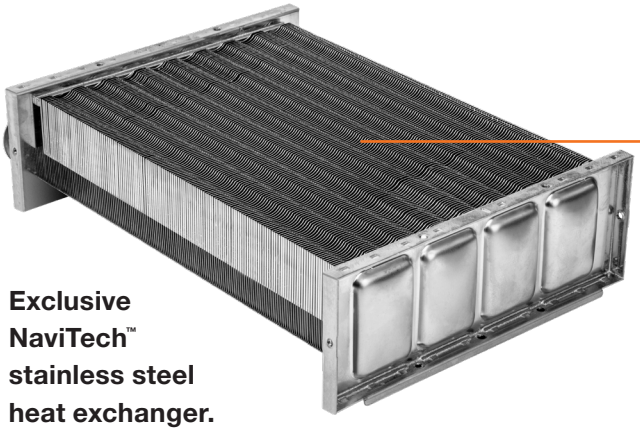
NHW-SU (Universal)
with vent cap for outdoor use



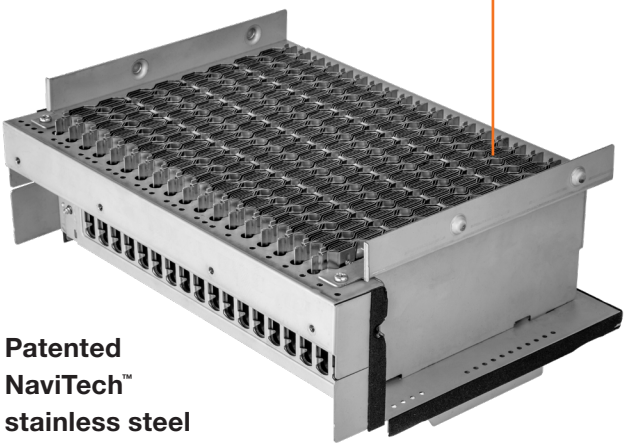
NHW-SE (Exterior)
outdoor only

Endless hot water, innovation and quality in non-condensing tankless with the NaviTech™ patented stainless steel technology

Navien is the first and only non-condensing tankless water heater manufacturer that offers a durable stainless-steel heat exchanger and a patented stainless steel burner design, all with Navien's dedication to advanced engineering, elegant design and exceptional product quality, support and strong warranties.



Exclusive NaviTech™ stainless steel heat exchanger.
The corrosion resistant heat exchanger is another advancement created from Navien's industry leading gas tankless water heating technology.



Patented NaviTech™ stainless steel burner with precision control flame technology for eco-friendly low NO_X emissions comparable to condensing water heaters.

LowNOx emissions
Complies with SCAQMD rule 1146.2

An inside look at the NHW-S

Featuring added durability, functionality & safety



Vent Installation Detector (VID).

Choice of universal indoor/outdoor or outdoor only operation.

For residential/commercial use and cascade capable.

NaviVent™ concentric 3" x 5" venting.

Units available in either Natural Gas (NG) or Liquid Propane (LP) gas.

Built-in Air Pressure Sensor (APS) monitors vent system for blockage, helps maintain proper air/gas ratio and ensures consistent DHW output during changing conditions.

Built-in Water Adjustment Valve (WAV) and mixing valve controls flow to maintain setpoint and stabilizes temperature during flow changes.

NHW Series integrated control panel allows you to adjust water temperature, view operation status and troubleshoot.

Circuitry with built-in recirculation control and software. No need to add separate controller saving installation time and money.



More innovative features and benefits:

Navien is the only non-condensing tankless water heater manufacturer to design and produce stainless steel heat exchangers and high efficiency NaviTech™ burners. Instead of assembling parts from various suppliers, we engineer and produce the majority of the components in our NHW series units and use advanced robotics to assure manufacturing integrity.

- Approved for mobile/manufactured homes. Navien NHW Series is the perfect domestic hot water system for eco-friendly tiny houses to larger high-tech homes
- Pin-to-pin design, aligns with configurations of other tankless models for easy retrofit installations
- Available in 3 interior and 4 exterior models (120,000, 160,000, 180,000 & 199,900 BTU/h)
- Available in Natural Gas (NG) or Liquid Propane (LP) models
- Optional NaviLink® and NaviLink Lite™ Wi-Fi remote control make it easy to adjust water temperatures, review operation status and troubleshoot from anywhere Internet service is available
- Vent Installation Detector (VID) for added safety





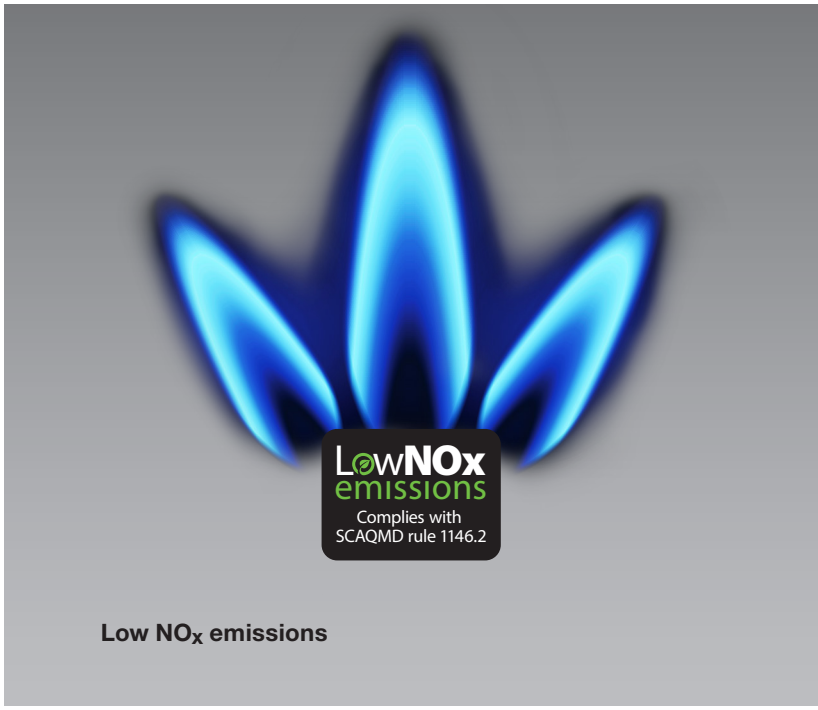
Options to install outside or inside



Endless hot water



NaviLink® optional WiFi remote control



Low NO_x emissions



Up to 80% smaller than traditional tanks

Space saving and lightweight design



Cascading capability

Accessories

For all optional accessories

NHW-SU

NHW-SE

Product availability and specifications subject to change. See back page for details.

NaviVent™ 3" x 5" Concentric Venting for NHW-SU Series

For all venting accessories



NaviLink® Wi-Fi Control
PBCM-AS-001



NaviLink Lite™ Wi-Fi Control (1 Unit)
PBCM-AS-002

Plumb Easy Valve Set (V2)
GXXX002987



Outdoor Vent Cap Kit (NHW700-SU Only)
30023991A



Pipe Cover NHW-S Series
30024017A



H2Air™ Kit AHU Optimizer
PNBD-000001



PeakFlow® Scale Prevention Systems

PeakFlow® A
GPWC310001AC001

PeakFlow® S
GPWC110001AC001





Recess Box (NHW-SE Only) (Lock not included)
30023550A



HotButton™ Control Kit
PZZZ-00063

Wall Plate
GXXX001427

Push Button
GXXX001426



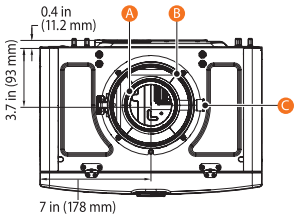
Remote Controller
30022717B



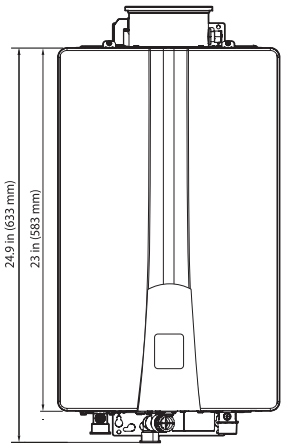
Dimensions

NHW-SU Series

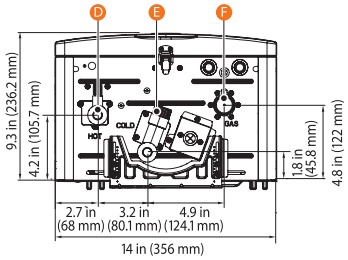
Overhead View



Front View



Supply Connections

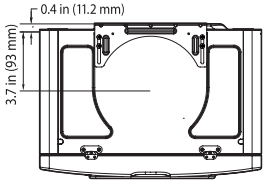


Connection Size

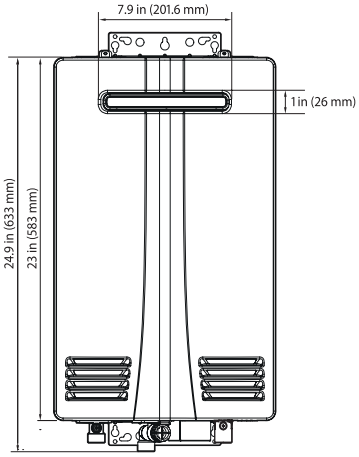
A	Exhaust Gas Vent	Φ 3"
B	Air Intake	Φ 5"
C	Condensate Drain	Φ 5/8"
D	Hot Water Outlet	Φ 3/4"
E	Cold Water Inlet	Φ 3/4"
F	Gas Inlet	Φ 3/4"

NHW-SE Series

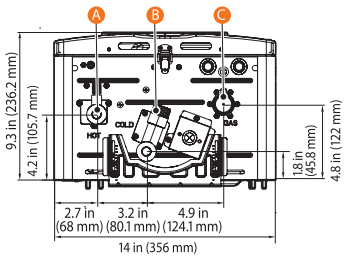
Overhead View



Front View



Supply Connections



Connection Size

A	Hot Water Outlet	Φ 3/4"
B	Cold Water Inlet	Φ 3/4"
C	Gas Inlet	Φ 3/4"





Customer support and advanced training makes Navien your best choice for tankless

Besides supplying innovative and energy efficient systems for residential and commercial applications, Navien provides extensive field support, webinars and training events for builders, architects and contractors. Our full-time customer support network provides quick answers to installation and operational questions.

Specifications

Item		NHW700 — Universal Model			NHW700 — Exterior Model			
		160SU-NG 160SU-LP	**180SU-NG 180SU-LP**	**199SU-NG 199SU-LP**	**120SE-NG 120SE-LP**	**160SE-NG 160SE-LP**	**180SE-NG 180SE-LP**	**199SE-NG 199SE-LP**
Heat capacity (input) natural gas/propane gas		10,700–160,000 (BTU/h)	10,700–180,000 (BTU/h)	10,700–199,900 (BTU/h)	10,700–160,000 (BTU/h)	10,700–160,000 (BTU/h)	10,700–180,000 (BTU/h)	10,700–199,900 (BTU/h)
Efficiency rating for NG & LP		0.81 UEF						
Flow rate (DHW)	35°F (18°C) temp rise	7.5 GPM (28 L/m)	8.5 GPM (32 L/m)	9.5 GPM (36 L/m)	5.7 GPM (21.6 L/m)	7.5 GPM (28 L/m)	8.5 GPM (32 L/m)	9.5 GPM (36 L/m)
	45°F (23°C) temp rise	5.8 GPM (22 L/m)	6.6 GPM (25 L/m)	7.4 GPM (28 L/m)	4.4 GPM (16.7 L/m)	5.8 GPM (22 L/m)	6.6 GPM (25 L/m)	7.4 GPM (28 L/m)
	67°F (36°C) temp rise	4.1 GPM (16 L/m)	4.8 GPM (18 L/m)	5.1 GPM (19 L/m)	3 GPM (11.4 L/m)	4.0 GPM (15 L/m)	4.7 GPM (18 L/m)	5.1 GPM (19 L/m)
Dimensions		14" W x 23" H x 9.3" D						
Weight (gross) propane gas		60 lbs (27 kg)	65 lbs (29 kg)	65 lbs (29 kg)	60 lbs (27 kg)	60 lbs (27 kg)	65 lbs (29 kg)	65 lbs (29 kg)
Installation type		Indoor or outdoor wall-hung (vent cap kit required for outdoor)			Outdoor wall-hung			
Venting type		Forced draft direct vent (indoor only)						
Ignition type		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 (max-min)		2.8" WC, 0.7" WC	2.3" WC, 0.7" WC	2.8" WC, 0.7" WC	3.5" WC, 10.5" WC	3.2" WC, 0.8" WC	2.6" WC, 0.8" WC	3.2" WC, 0.8" WC
Propane gas manifold pressure (max-min)		5.8" WC, 1.3" WC	4.5" WC, 1.3" WC	5.4" WC, 1.3" WC	8" WC, 13" WC	6.1" WC, 1.4" WC	4.9" WC, 1.3" WC	6.0" WC, 1.3" WC
Minimum flow rate		0.26 GPM (1.0 L/m)						
Activation flow rate		0.4 GPM (1.5 L/m)						
Connection sizes		3/4" NPT cold water inlet 3/4" NPT hot water outlet 3/4" NPT gas inlet						
Power supply	Main supply	120V AC, 60 Hz						
	Normal	95 W	100 W	115 W	95 W	99 W	81 W	96 W
	Maximum power consumption	120 W (Max 2 A), 350 W (Max 4 A) with external pump connected						
	External pump	<150 W, 1.5 A						
	Fuse	5.0 A						
Materials	Casing	Cold rolled carbon steel						
	Heat exchangers	Stainless steel						
Safety devices		Flame rod, APS, vent installation detector, ignition operation detector, water temperature high limit switch, power surge fuse						

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.

Warranty

Application		Labor	Parts	Heat Exchanger
Residential	Standard	1 year	5 years	15 years
	Uncontrolled recirculation[2]	1 year	3 years	5 years
Commercial or Combi[1]	Standard	1 year	5 years	5 years
	Uncontrolled recirculation[2]	1 year	3 years	3 years

[1] Combi refers to a combination potable water and space heating application. Water heaters cannot be used in space heating only applications.

[2] 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.

Navien's warranty (which may be changed without prior notice) is subject to the terms and conditions found at www.Navieninc.com.

Accessories and components are subject to change or discontinuation without notice. Images are for illustrative purposes only and actual products may vary based on current vendor availability. Navien reserves the right to substitute equivalent accessories or components from alternative vendors as necessary. For the most up-to-date product information and current accessory availability, please visit navieninc.com or contact your local Navien representative.

We are @Navieninc everywhere

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