

Introducing the NHW-SU and NHW-SE



INTEGRATED CONTROLS

0.81 UEF

98°-140°

9.5 GPM 0.35° TEMP RISE

RESIDENTIAL & COMMERCIAL







NHW-SU (Universal) indoor use



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

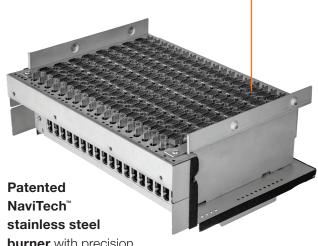


NHW-SE (Exterior)
outdoor only

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.





SCAQMD rule 1146.2

burner with precision control flame technology for eco-friendly low NO_X emissions comparable to condensing water heaters.

heating technology.

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.

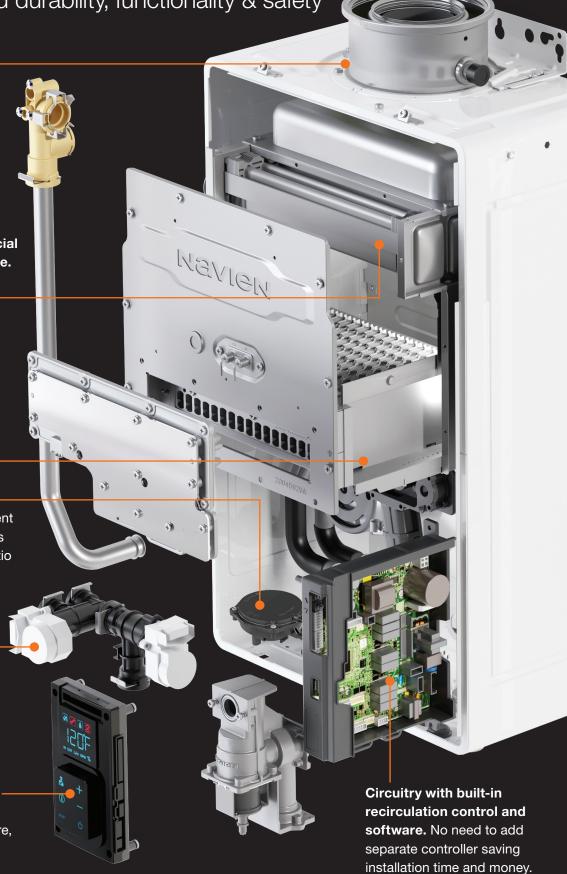
NaviVent[™] concentric 3" x 5" venting.

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.





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 3 exterior models (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











Low NO_x emissions





Cascading capability

Accessories

For all optional accessories





NHW-SE













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





Wall Plate GXXX001427

Push Button



Remote Controller (Optional for NHW-SU Models Only)

30022717B



Dimensions

NHW-SE Series NHW-SU Series Overhead View Overhead View 0.4 in (11.2 mm) √ 0.4 in (11.2 mm) 7 in (178 mm) Front View Front View 7.9 in (201.6 mm) 1in (26 mm) 24.9 in (633 mm) 24.9 in (633 mm) 23 in (583 mm) 23 in (583 mm) navien **Supply Connections Supply Connections** 9.3 in (236.2 mm) 4.2 in (105.7 mm) 4.2 in (105.7 mm) 2.7 in 3.2 in 4.9 in (68 mm) (80.1 mm) (124.1 mm) 2.7 in 3.2 in 4.9 in (68 mm) (80.1 mm) (124.1 mm) 14 in (356 mm) 14 in (356 mm) Connection Size **Connection Size** A Exhaust Gas VentB Air IntakeCondensate Drain ♠ Hot Water Outlet Φ 3/4" Φ3" B Cold Water Inlet Gas Inlet Ф 5" Ф 3/4" Φ 5/8" Φ 3/4" Hot Water Outlet Φ 3/4" Cold Water Inlet Φ 3/4" Φ 3/4" Gas Inlet



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			NHV	W700 - Exterior M	lodel		
		160SU-NG 160SU-LP	180SU-NG 180SU-LP	199SU-NG 199SU-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)	10,700-180,000 (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)	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)	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)	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)	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	3.2" 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	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	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 dev	vices	Flame rod, APS, ve power surge fuse	ent installation detec	tor, ignition operation	n detector, water ten	nperature high limit s	switch,		

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
Residerillar	Uncontrolled recirculation ²	1 year	3 years	5 years
O	Standard	1 year	5 years	5 years
Commercial or Combi	Uncontrolled recirculation ²	1 year	3 years	3 years

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

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







We are @Navieninc everywhere









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²Uncontrolled-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.