



Quick Facts

NHW-S Series



NHW-SE
Exterior

NHW-SU
Indoor Use

NHW-SU
With Vent Cap/Outdoor Use

Non-Condensing Tankless Water Heaters

Navien Certification Summary

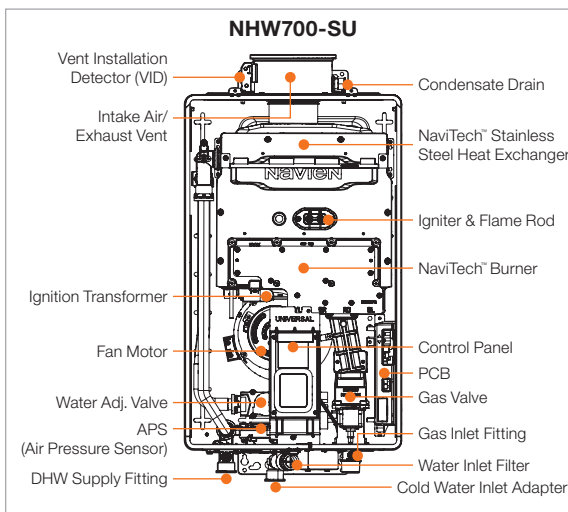
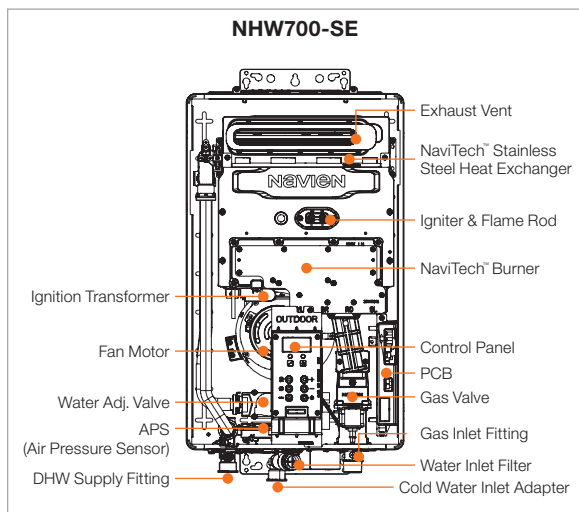
Temp Rise (maximum output)

Model	Product Approvals					Efficiency Ratings*
	CSA	NSF (Standard 5)	Low Lead (<0.25%)	Low NOx	AHRI Number	Uniform Energy Factor (UEF)
NHW700-160SU-NG	Yes	Yes	Yes	Yes	214268876	0.81
NHW700-160SU-LP	Yes	Yes	Yes	Yes	214390698	0.81
NHW700-180SU-NG	Yes	Yes	Yes	Yes	214268877	0.81
NHW700-180SU-LP	Yes	Yes	Yes	Yes	214390699	0.81
NHW700-199SU-NG	Yes	Yes	Yes	Yes	214268878	0.81
NHW700-199SU-LP	Yes	Yes	Yes	Yes	214390700	0.81
NHW700-120SE-NG	Yes	Yes	Yes	Yes	217476336	0.81
NHW700-120SE-LP	Yes	Yes	Yes	Yes	217476335	0.81
NHW700-160SE-NG	Yes	Yes	Yes	Yes	214268879	0.81
NHW700-160SE-LP	Yes	Yes	Yes	Yes	214390701	0.81
NHW700-180SE-NG	Yes	Yes	Yes	Yes	214268880	0.81
NHW700-180SE-LP	Yes	Yes	Yes	Yes	214390702	0.81
NHW700-199SE-NG	Yes	Yes	Yes	Yes	214268881	0.81
NHW700-199SE-LP	Yes	Yes	Yes	Yes	214390703	0.81

Temp Rise (°F)	Flow Rate (GPM)			
	NHW700-120	NHW700-160	NHW700-180	NHW700-199
30	6.6	8.7	10.0	11.1
35	5.7	7.5	8.5	9.5
40	5	6.6	7.5	8.3
45	4.4	5.8	6.6	7.4
50	4	5.2	6.0	6.6
55	3.6	4.8	5.4	6.0
60	3.3	4.4	5.0	5.5
65	3.1	4.0	4.6	5.1
67	3	4.0	4.5	5.0
70	2.8	3.7	4.3	4.7
75	2.7	3.5	4.0	4.4
80	2.5	3.3	3.7	4.1
85	2.3	3.1	3.5	3.9
90	2.2	2.9	3.3	3.7
100*	2	2.6	3.0	3.3

*Max temperature setting is 140°F (60°C)

*Based on U.S. Department of Energy (DOE) test procedures.



Product Features

NAVITECH™
STAINLESS STEEL
HX AND BURNER

**PREMIUM
INTEGRATED
CONTROLS**

0.81 UEF

98°-140°
TEMP RANGE

9.5 GPM
@ 35° TEMP RISE

**RESIDENTIAL &
COMMERCIAL**

**CASCADE
CAPABLE**

**OPTIONAL
NaviLink™
WI-FI CONTROL**

DHW Capacity

Models	Natural Gas/ Propane Gas
NHW700-160 SU/SE series	10,700-160,000 (BTU/H)
NHW700-180 SU/SE series	10,700-180,000 (BTU/H)
NHW700-199 SU/SE series	10,700-199,900 (BTU/H)

Warranty

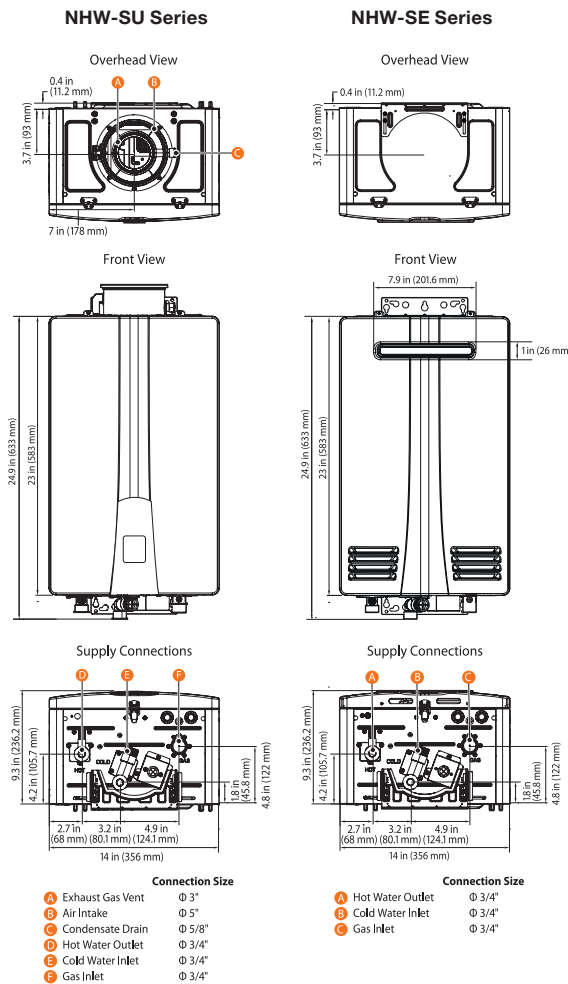
Application		Labor	Parts	Heat Exchanger
Residential	Standard	1 year	5 years	15 years
	Uncontrolled recirculation ²	1 year	3 years	5 years
Commercial or Combi ¹	Standard	1 year	5 years	5 years
	Uncontrolled recirculation ²	1 year	3 years	3 years

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

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.

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

Dimensions



Specifications

Item	NHHW700 – Universal Model			NHHW700 – 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)
	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)
	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)
Dimensions	14.0" W x 23.0" H x 9.3" D						
Weight (gross)	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						
	Main supply						
Power supply	120V AC, 60 Hz						
	Normal	95 W	100 W	115 W	95 W	99 W	81 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					
Materials	Fuse	5.0 A					
	Casing	Cold rolled carbon steel					
Safety devices	Heat exchangers	Stainless steel					
	Flame rod, APS, vent installation detector, ignition operation detector, water temperature high limit switch, power surge fuse						
Certifications							

Accessories*

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.

NaviLink® Lite Wi-Fi Control (1 unit) PBCM-AS-002 	Plum Easy Valve Kit (V3) GXXX002987 For Pipe Cover 30012581A 	Cascade Cable External Pump Wire GXXX001319 	PeakFlow® S Scale Prevention System GPWC110001AC001 	Outdoor Vent Cap Kit NHHW700-SU Only 30023991A 	Recess Box NHHW700-SE Only (Lock not included) 30023550A
NaviLink® Wi-Fi Control PBCM-AS-001 	H2Air™ Kit AHU Optimizer PNBD-000001 	Remote Controller (Optional for NHHW700-SU) 30022717B 	HotButton™ Control Kit PZZZ-00063 Wall Plate GXXX001427 Push Button GXXX001426 	NaviCirc™ Recirculation Valve for NHHW700-S NaviCirc™ PFFW-SXX-001 NaviCirc™ Kit 30022965A 	Pipe Cover NHHW700-S Series 30024017A

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 www.navieninc.com or contact your local Navien representative.

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