



QuickFacts

NHW-S Series



Non-Condensing Tankless Water Heaters

Navien Certification Summary

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	
NHW700-160SE-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	

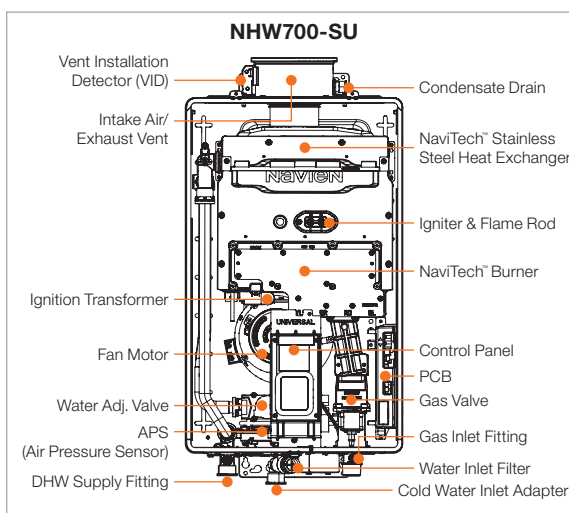
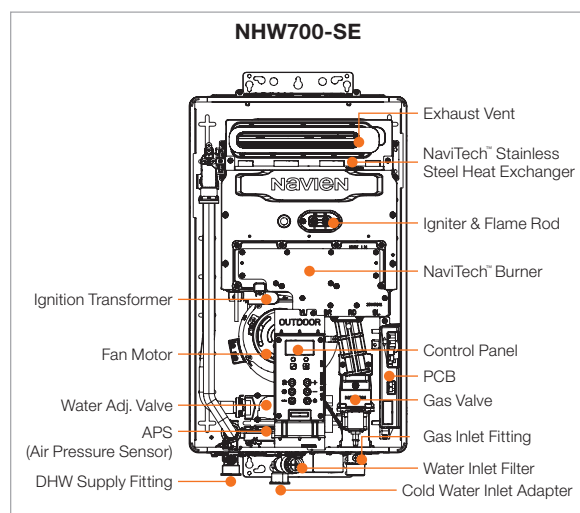
*Based on U.S. Department of Energy (DOE) test procedures.

Available now. Coming soon.

Temp Rise (maximum output)

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

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



Product Features

NAVITECH™
STAINLESS STEEL
HX AND BURNER

**PREMIUM
INTEGRATED
CONTROL**

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

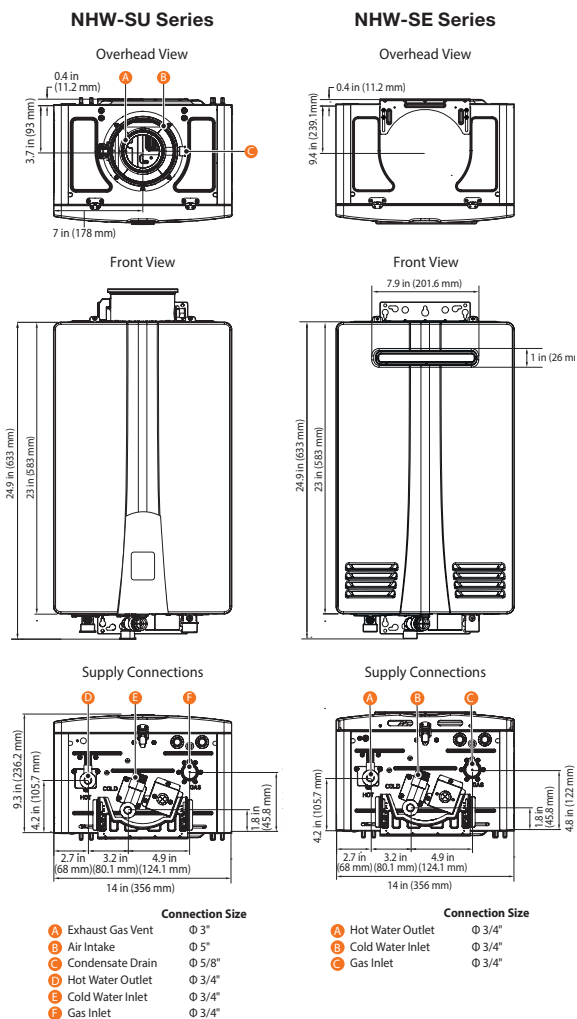
¹Combi refers to a combination potable water and space heating application. Water heaters cannot be used in space heating only applications.

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		NHW700 — Universal Model			NHW700 — Exterior Model		
		160SU	180SU	199SU	160SE	180SE	199SE
Available now		160SU-NG	180SU-NG				199SE-NG
Coming soon		160SU-LP	180SU-LP	199SU-NG 199SU-LP	160SE-NG 160SE-LP	180SE-NG 180SE-LP	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		14.0" 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)	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					
Materials	Fuse	5.0 A					
	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.

Accessories

NaviLink® Lite Wi-Fi Control (1 unit) PBCM-AS-002 	Plumb Easy Valve Set (V2) 3/4" with Relief Valve GXXX002139 For Pipe Cover 30012581A 	Cascade Cable GXXX000546 External Pump Wire GXXX001319 	PeakFlow® S Scale Prevention System GPWC110001AC001 	Outdoor Vent Cap Kit NHW700-SU Only 30023991A 	Recess Box NHW700-SE Only (Lock not included) 30023550A
NaviLink® Wi-Fi Control PBCM-AS-001 	H2Air™ Kit AHU Optimizer PNBD-000001 	Remote Controller (Optional for NHW700-SU) 30022717B 	HotButton™ Control Kit PZZZ-00046 Wall Plate GXXX001427 Push Button GXXX001426 	NaviCirc™ Recirculation Valve for NHW700-S NaviCirc™ PFFW-SXX-001 NaviCirc™ Kit 30022965A 	Pipe Cover NHW700-S Series 30024017A



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