

navien

Quick Facts

NHB-H Series



Condensing Boilers

Navien Certification Summary

	Model			
	NHB-55H	NHB-80H	NHB-110H	NHB-150H
Product Approvals				
CSA	Yes	Yes	Yes	Yes
SCAQMD 1146.2 (NOx, <20 ppm)	Yes	Yes	Yes	Yes
ASME	Yes "H" stamp	Yes "H" stamp	Yes "H" stamp	Yes "H" stamp
AHRI Number	213313053	213313054	213313055	213313056
Energy Star	Yes	Yes	Yes	Yes
Space Heating Ratings				
AFUE, %	95.0	95.0	95.0	95.0
Heating Capacity, MBH	51	74	102	138

Gas Input Ranges

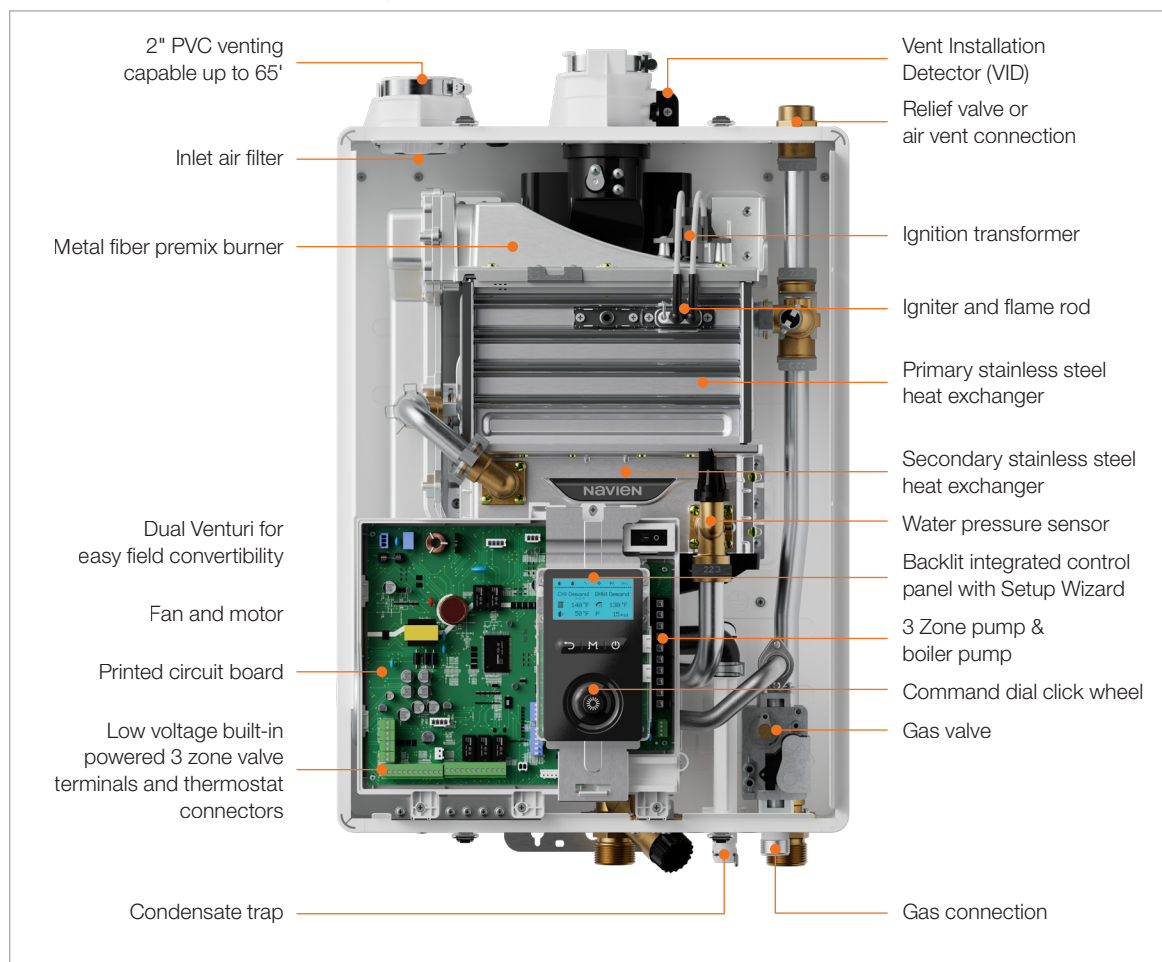
Model	Range (BTU/h)	TDR
NHB-55H	8,000–55,000	7:1
NHB-80H	8,000–80,000	10:1
NHB-110H	10,000–110,000	11:1
NHB-150H	10,000–150,000	15:1

Warranty

Type	Residential*	Commercial
Heat exchangers	15 year limited warranty	10 year limited warranty
Parts	5 years	3 years
Labor	1 year	1 year

*Applies to single family residential locations.
For complete details please refer to the full warranty at Navieninc.com.

NHB-H: The Inside Story



Product Features

DUAL STAINLESS STEEL HEAT EXCHANGERS

ADVANCED USER INTERFACE

TDR UP TO 15:1

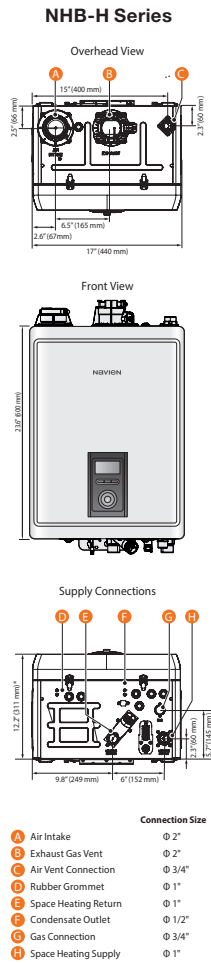
2"–3" VENTING LONG DISTANCES

NG OR LP FIELD GAS CONVERTIBLE

3 ZONES VALVES or PUMPS

AFUE 95.0%

Dimensions



Ratings & Specifications

Model Number ¹	Heating Input BTU/h		Heating Capacity ² BTU/h	Net AHRI Rating Water ³ BTU/h	AFUE ² %
	Min	Max			
NHB-55H	8,000	55,000	51,000	44,000	95.0
NHB-80H	8,000	80,000	74,000	64,000	95.0
NHB-110H	10,000	110,000	102,000	89,000	95.0
NHB-150H	10,000	150,000	138,000	120,000	95.0

¹ Ratings are the same for Natural Gas models converted to Propane use.

² Based on U.S. Department of Energy (DOE) test procedures.

³ The NET AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15.

Consult Navien before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.

Specifications				
Item	NHB-55H	NHB-80H	NHB-110H	NHB-150H
Dimensions	17.3" (W) x 12.8" (D) x 23.8" (H)			
Weight	73 lbs (33 kg)		80 lbs (36 kg)	
Installation type	Indoor wall-hung			
Venting type	Forced draft direct vent			
Ignition	Electronic ignition			
Natural gas supply pressure (from source)	3.5" – 10.5" WC			
Propane gas supply pressure (from source)	8.0" – 13.5" WC			
Natural gas manifold pressure	-0.11" WC	-0.17" WC	-0.26" WC	-0.40" WC
Propane gas manifold pressure	-0.11" WC	-0.17" WC	-0.25" WC	-0.41" WC
Gas connection size	3/4" NPT (male)			
Power supply	Main supply	120V AC, 60Hz		
	Maximum power consumption	Less than 10A		
Materials	Casing	Cold rolled carbon steel		
	Heat exchangers	Primary and secondary heat exchangers: stainless steel		
Venting	Exhaust	2" or 3" PVC, CPVC, PP, SS (see installation manual for more details) 2" or 3" special gas vent type BH (Class III, A/B/C)		
	Intake	2" or 3" PVC, CPVC, PP, SS 2" or 3" special gas vent type BH (Class III, A/B/C)		
	Vent clearances	0" to combustibles		
Safety devices	Flame rod, APS, gas valve operation detector, ignition operation detector, water temp high limit switch, exhaust temp high limit sensor, Vent Installation Detector (VID)			
Certifications				

Navien reserves the right to change specifications at any time without prior notice. Please refer to Navieninc.com to verify you have the most current information.

Accessories

<p>NaviClean™ Magnetic Filter GXXX001727</p>	<p>Plumb Easy Valve Set 1" Standard BCSA056</p>	<p>Ready-Link® Communications Cable GXXX000546</p>	<p>Universal Temperature Sensor GXXX001769</p>	<p>Common Vent Collar Kit 30014367B (Includes Cascade Cable)</p>	<p>Ready-Link® Rack Base (V3) GFFM-KDIZUS-005</p> <p>Ready-Link® Rack Add-on (V3) GFFM-KDIZUS-006</p>
<p>NHB-H Primary Manifold Kit GXXX002396</p>	<p>NaviLink® Lite Wi-Fi Control (1 unit) PBCM-AS-002</p> <p>NaviLink® Wi-Fi Control PBCM-AS-001</p>	<p>Residential Neutralizer (1 unit) GXXX001322</p> <p>Residential Neutralizer Replacement Media GXXX001323</p>	<p>Light Commercial Neutralizer (up to 6 units) GXXX001324</p> <p>Light Commercial Neutralizer Replacement Media GXXX001328</p> <p>Commercial Neutralizer (up to 16 units) GXXX001325</p> <p>Commercial Neutralizer Replacement Media GXXX001329</p>	<p>Zone Pump Controller</p> <p>2 Zones: PFMZ-02P-001</p> <p>3 Zones: PFMZ-03P-001</p> <p>4 Zones: PFMZ-04P-001</p> <p>6 Zones: PFMZ-06P-001</p>	

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