



QuickFacts

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

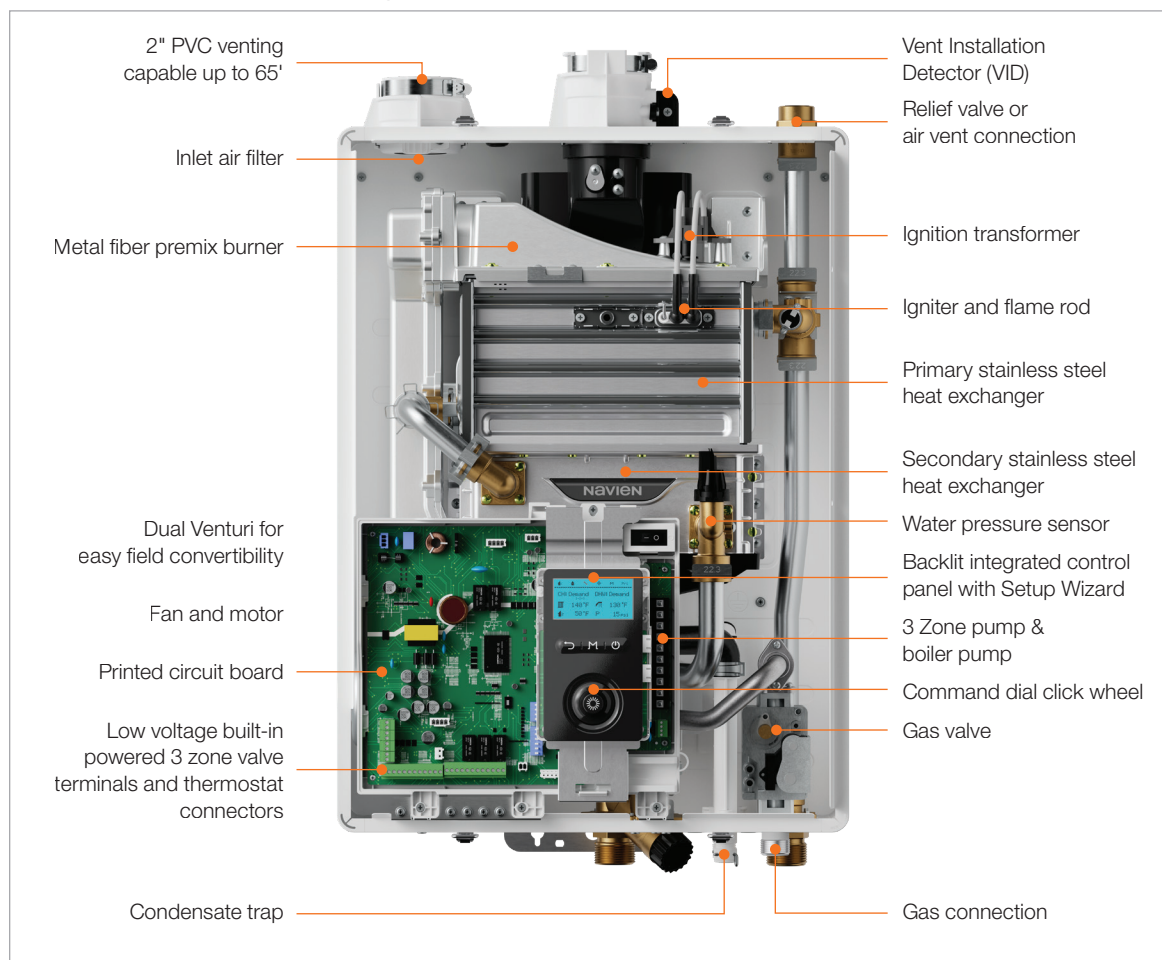
Model	Range (BTU/h)	TDR
NHB-55H	8,000–55,000	7:1
NHB-80H	8,000–80,000	10:1
NHB-110H	10,000–110,000	11:1
NHB-150H	10,000–150,000	15:1

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**

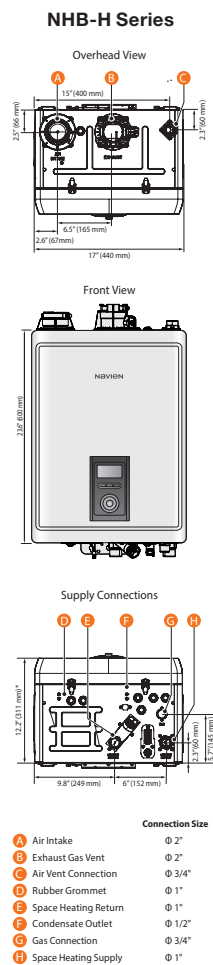
2"–3" VENTING
LONG DISTANCES

NG OR LP FIELD GAS CONVERTIBLE

3 ZONES
VALVES or PUMPS

AFUE 95.0%

Dimensions



Ratings & Specifications


Navien Condensing Boiler Space Heating Ratings					
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

NaviClean™ Magnetic Filter GXXX001727	Plumb Easy Valve Set 1" Standard BCSA056	Ready-Link® Communications Cable GXXX000546	Universal Temperature Sensor GXXX001769	Common Vent Collar Kit 30014367B (Includes Cascade Cable)	Ready-Link® Rack Base (V4) GFFM-KDIZUS-009 Ready-Link® Rack Add-on (V4) GFFM-KDIZUS-010
NHB-H Primary Manifold Kit GXXX002396	NaviLink® Lite Wi-Fi Control (1 unit) PBCM-AS-002	Residential Neutralizer (V2) (1 unit) GXXX002212 Residential Neutralizer Replacement Media GXXX001323	Commercial Neutralizer (up to 6 units) GXXX002366 Commercial Neutralizer Replacement Media GXXX002368 Lg. Commercial Neutralizer (up to 16 units) GXXX002367 Lg. Commercial Neutralizer Replacement Media GXXX002369	Zone Pump Controller 2 Zones: PFMZ-02P-001 3 Zones: PFMZ-03P-001 4 Zones: PFMZ-04P-001 6 Zones: PFMZ-06P-001	
NaviLink® Wi-Fi Control PBCM-AS-001					

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