

QuickFacts



NHB Series Condensing Boilers

Navien Certification Summary

	Model			
	NHB-55	NHB-80	NHB-110	NHB-150
	Product Approvals			
CSA	Yes	Yes	Yes	Yes
SCAQMD 1146.2 (NO _x , <20 ppm)	Yes	Yes	Yes	Yes
ASME	Yes "H" stamp	Yes "H" stamp	Yes "H" stamp	Yes "H" stamp
AHRI Number	7501495	7501496	7501497	7501498
Energy Star	Yes	Yes	Yes	Yes
	Space Heating Ratings			
AFUE, %	95.0	95.0	95.0	95.0
Heating Capacity, BTU/H	51,000	74,000	102,000	138,000

Gas Input Ranges

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

Product Features

TDR UP TO 15:1

2" VENT UP TO 60 FEET & 3" VENT UP TO 150 FEET

ADJUSTABLE DELTA T RANGES

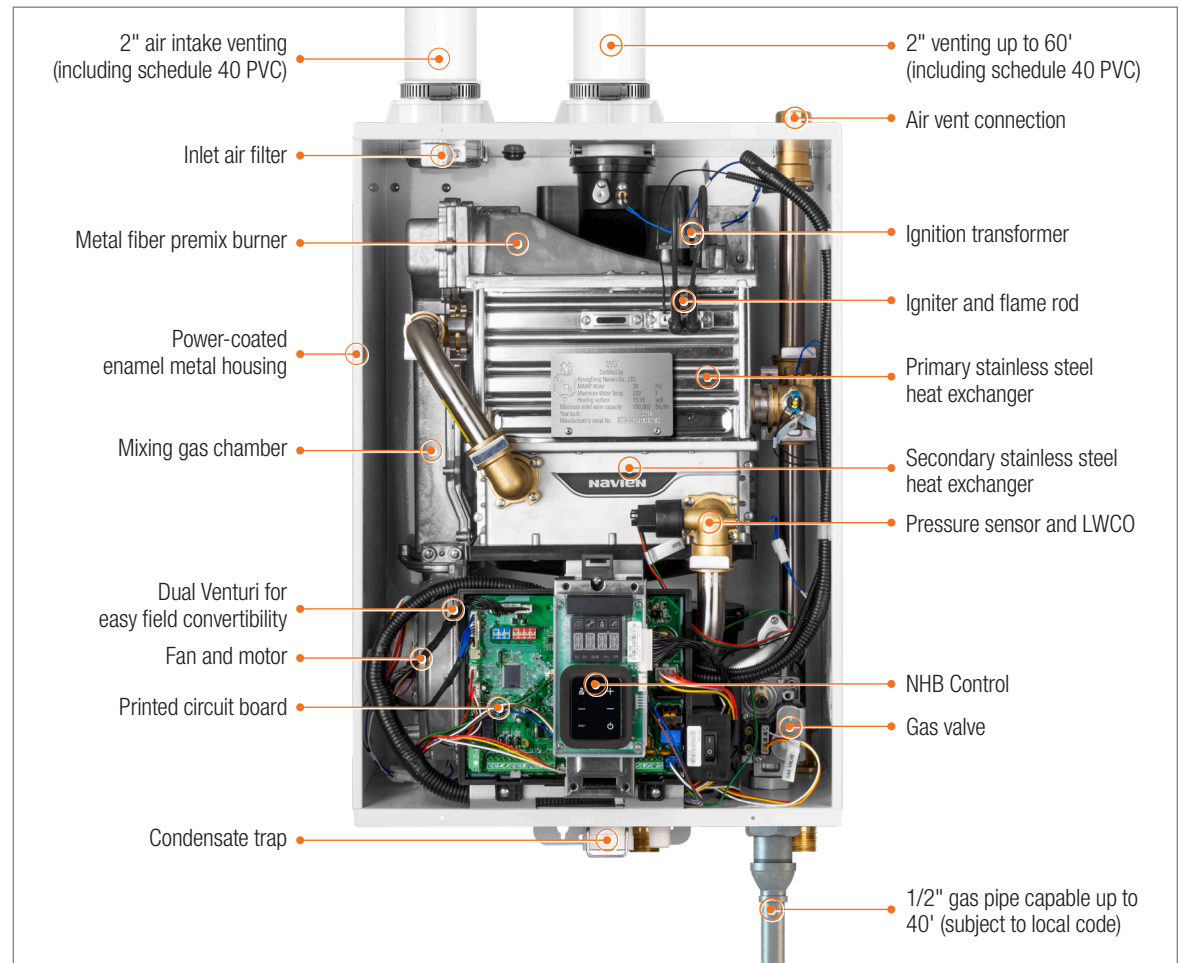
NG OR LP FIELD GAS CONVERTIBLE

NHB CONTROL

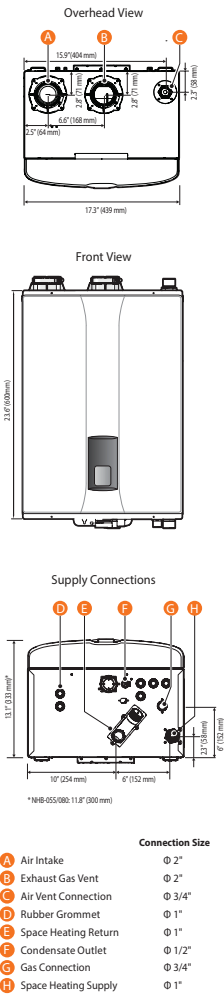
1/2" GAS CAPABILITY UP TO 40 FT

AFUE 95.0%
ENERGY STAR

NHB: The Inside Story



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-55	8,000	55,000	51,000	44,000	95.0
NHB-80	8,000	80,000	74,000	64,000	95.0
NHB-110	10,000	110,000	102,000	89,000	95.0
NHB-150	10,000	150,000	138,000	120,000	95.0

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

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

³The 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.

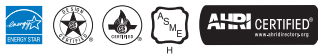
Specifications				
Item	NHB-55	NHB-80	NHB-110	NHB-150
Dimensions	24" (H) x 17" (W) x 12" (D)		24" (H) x 17" (W) x 13" (D)	
Weight	73 lbs (33 kg)		80 lbs (36 kg)	
Installation type	Indoor wall-hung			
Venting type	Forced draft direct vent			
Ignition	Electronic ignition			
Natural gas supply pressure (from source)	3.5" –10.5" WC			
Propane gas supply pressure (from source)	8.0" –13.5" WC			
Natural gas manifold pressure	-0.03" WC	-0.08" WC	-0.10" WC	-0.40" WC
Propane gas manifold pressure	-0.03" WC	-0.07" WC	-0.09" WC	-0.30" WC
Gas connection size	3/4" NPT (female)			
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, water pressure sensor, ignition operation detector, water temperature high limit switch, exhaust temperature high limit sensor			

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

NaviLink™ Wi-Fi Control PBCM-AS-001	NHB Primary Manifold Kit GFFM-MSOZUS-001	NHB Secondary Manifold Kit GFFM-SKTZUS-001	Plumb Easy Valve Set 1" Standard 30010950A	Residential Neutralizer (1 unit) GXXX001322	Light Commercial Neutralizer (up to 6 units) GXXX001324	Commercial Neutralizer (up to 16 units) GXXX001325	NaviClean™ Magnetic Filter GXXX001727	Zone Pump Controller 2 Zones: PFMZ-02P-001	System Supply & Return Sensors GXXX001417	Common Vent Collar Kit 30014367B	Ready-Link® Rack Base (V3) GFFM-KDIZUS-005
				Residential Replacement Media GXXX001323	Light Commercial Replacement Media GXXX001328	Commercial Replacement Media GXXX001329		3 Zones: PFMZ-03P-001		Cascade Cable GXXX000546	Ready-Link® Rack Add-on (V3) GFFM-KDIZUS-006
								4 Zones: PFMZ-04P-001			
								6 Zones: PFMZ-06P-001			



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