

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 (NOx, <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, MBH	51	74	102	138

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

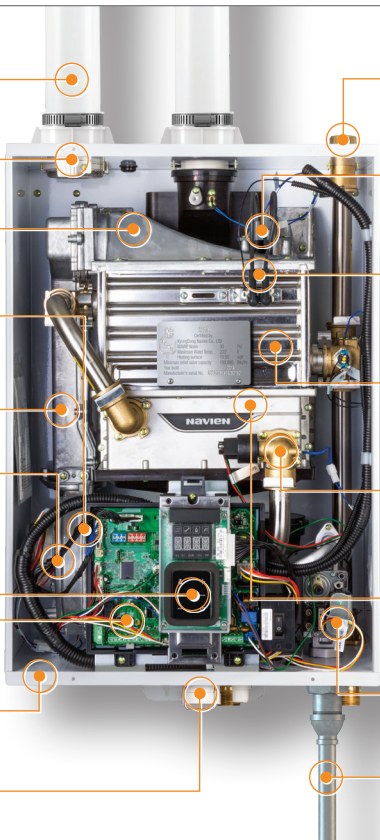
*Applies to single family residential locations.
For complete details please refer to the full warranty at NavienInc.com.

Product features

- TDR UP TO 15:1**
Industry's largest turn down ratio
- AFUE 95.0%**
Recognized as the most efficient in 2019 by Energy Star
- 2"-3" VENTING LONG DISTANCES**
2" PVC venting up to 60'
3" PVC venting up to 150'
- ADJUSTABLE DELTA T RANGES**
Gives the installer the ability to maximize boiler performance and temperature control.
- NHB CONTROL**
Smart integrated control provides industry-leading options and features in the boiler operation parameters

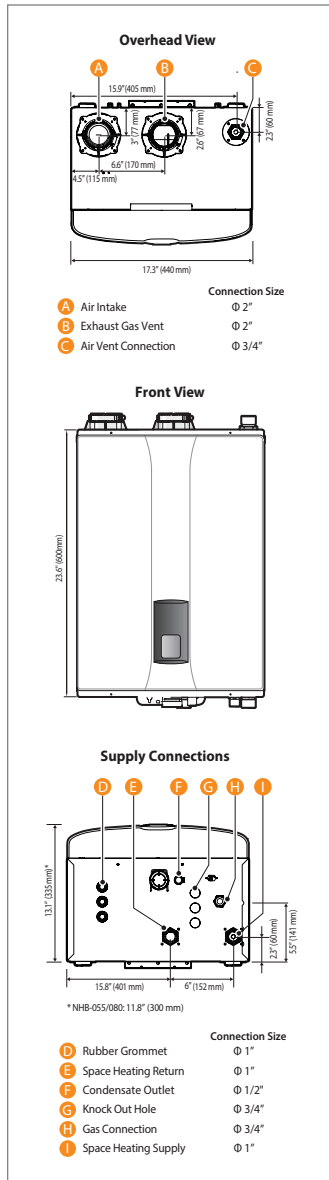


NHB: the inside story



- 2" PVC exhaust venting capable up to 60'
- Inlet air filter
- Metal fiber premix burner
- Dual Venturi for easy field convertibility
- Mixing gas chamber
- Fan and motor
- NHB Control
- Printed circuit board
- Power-coated enamel metal housing
- Condensate trap
- Air vent connection
- Ignition transformer
- Igniter and flame rod
- Primary stainless steel heat exchanger
- Pressure sensor and LWCO
- Secondary stainless steel heat exchanger
- Gas valve
- 1/2" gas pipe capable up to 40' (subject to local code)

Dimensions



Ratings & specifications

Navien Condensing Boiler Space Heating Ratings					
Model Number ¹	Heating Input, MBH		Heating Capacity ² , MBH	Net AHRI Rating, Water ³ , MBH	AFUE ² , %
	Min	Max			
NHB-55	8	55	51	44	95.0
NHB-80	8	80	74	64	95.0
NHB-110	10	110	102	89	95.0
NHB-150	10	150	138	120	95.0

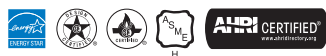
¹ Ratings are the same for Natural Gas models converted to Propane use.
² Based on U.S. Department of Energy (DOE) test procedures.
³ The NET AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15. Consult Navien before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.

Specifications				
Item	NHB-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, gas valve operation detector, 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 BCSA056	Residential Neutralizer (1 unit) GXXX001322 Residential Replacement Media GXXX001323	Light Commercial Neutralizer (up to 6 units) GXXX001324 Light Commercial Replacement Media GXXX001328	Commercial Neutralizer (up to 16 units) GXXX001325 Commercial Replacement Media GXXX001329	NaviClean™ Magnetic Filter GXXX001727	Zone Pump Controller 2 Zones: PFMZ-02P-001 3 Zones: PFMZ-03P-001 4 Zones: PFMZ-04P-001 6 Zones: PFMZ-06P-001	System Supply & Return Sensors GXXX001417	Common Vent Collar Kit 30014367A Cascade Cable GXXX000546	Ready-Link® Rack Base (V2) GFFM- KDIZUS-003 Ready-Link® Rack Add- on (V2) GFFM- KDIZUS-004



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