

NHB Series

Condensing Boilers

Quick Facts Sheet



Navien Certification Summary

Model	Product Approvals						Space Heating Ratings	
	CSA	SCAQMD 1146.2 (NOx, <20ppm)	Low Lead (<0.25%)	ASME	AHRI Number	Energy Star	AFUE, %	Heating Capacity, MBH
NHB-55	Yes	Yes	Yes	Yes "H" Stamp	7501495	Yes	95.0	51
NHB-80	Yes	Yes	Yes	Yes "H" Stamp	7501496	Yes	95.0	74
NHB-110	Yes	Yes	Yes	Yes "H" Stamp	7501497	Yes	95.0	102
NHB-150	Yes	Yes	Yes	Yes "H" Stamp	7501498	Yes	95.0	138

*Note all NHB Models are field convertible from NG to LP gas.


Gas Input Ranges

Model	Range	TDR
NHB-55	8,000-55,000 BTU/H	7.1
NHB-80	8,000-80,000 BTU/H	10:1
NHB-110	10,000-110,000 BTU/H	11:1
NHB-150	10,000-150,000 BTU/H	15:1

Warranty Package

	Labor	Parts	Heat Exchanger
Residential	1 Year	5 Year	15 Year
Commercial	1 Year	3 Year	10 Year

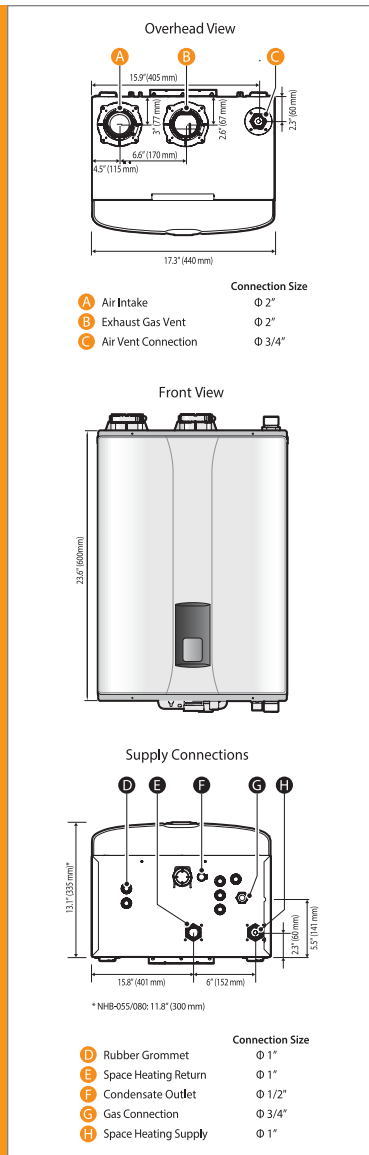
Product Features

TDR UP TO 15:1	Industry's largest turn down ratio
AFUE 95%	The most efficient in 2015 by Energy Star
2"-3" VENTING LONG DISTANCES	2" PVC venting up to 60' 3" PVC venting up to 150'
ADJUSTABLE DELTA T RANGES	The most efficient in 2015 by Energy Star
INTEGRATED SMART CONTROL	The smart control provides industry-leading options and features in the boiler operation parameters
 Most Efficient 2015 ENERGY STAR www.energystar.gov	

NHB: the inside story

- Inlet air filter
- Metal fiber pre-mix burner
- Mixing gas chamber
- Dual Venturi for easy field convertibility
- Fan and motor
- Printed circuit board
- Integrated smart control
- Powder-coated enamel metal housing
- Condensate trap
- 2" PVC exhaust venting capable up to 60'
- 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'

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			
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, approved polypropylene (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, polypropylene 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 www.navien.com to verify you have the most current information.

Accessories

NHB Primary Manifold Kit (GFFM-MSOZUS-001)	Secondary Manifold Kit (GFFM-SKTZUS-001)	Plumb Easy Valve Set 1" Standard (30010950A)	Residential Neutralizer (1 unit) (GXXX001322) Replacement Media (GXXX001323)	Light Commercial Neutralizer (up to 6 units) (GXXX001324) Replacement Media (GXXX001328)	Commercial Neutralizer (up to 16 units) (GXXX001325) Replacement Media (GXXX001329)	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)



To learn more, contact your Navien representative, wholesaler, or visit www.BoilersMadeSmart.com, or www.Navien.com

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