

NHB Condensing Boilers

Navien
innovation.

Now available
in a boiler.

- Turn down ratios up to 15:1
- AFUE 95%
- Advanced burner system
- Four sizes: 55, 80, 110, 150 BTU/H



Navien NHB condensing boilers

As the leader in condensing technology, Navien has already reinvented the water heating industry with the award-winning NPE tankless water heaters and the NCB combi-boilers. The new NHB boiler series is the next in line of innovations from Navien. All NHB boilers have Navien's advanced burner system, an industry-leading AFUE of 95% and



turn down ratios up to 15:1. Now available in four sizes NHB-55, NHB-80, NHB-110 and NHB-150.



Space saving

The sleek wall-hung design uses much less space than traditional floor standing boilers.



Easy to install

1/2" gas connections and 2" PVC venting help reduce installation time.



Total control

All system setup, operations and troubleshooting available at your fingertips.

TDR UP TO 15:1

Industry's largest turn down ratio providing ease of installation with multiple zones while maintaining high operational efficiencies.

AFUE 95%

Recognized as the most efficient in 2015 by EnergyStar.

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.

INTEGRATED SMART CONTROL

The smart control provides industry-leading options and features in the boiler operation parameters, including:

- Adjustable heat capacity.
- A timed hydronic supply water boost feature.
- Adjustable anti-cycle timer.
- Freeze protection.
- Pressure LWCO with manual reset.
- Adjustable minimum burner time setting.
- Adjustable turn down ratio timing.
- Outdoor reset and domestic hot water priority.
- Adjustable outdoor temperature reset curves.
- Field convertibility.

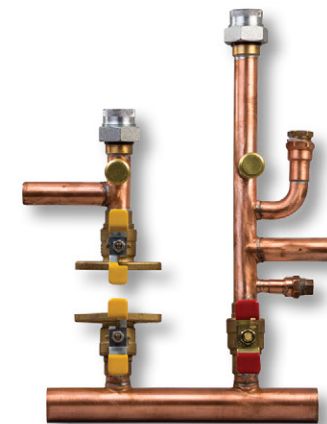
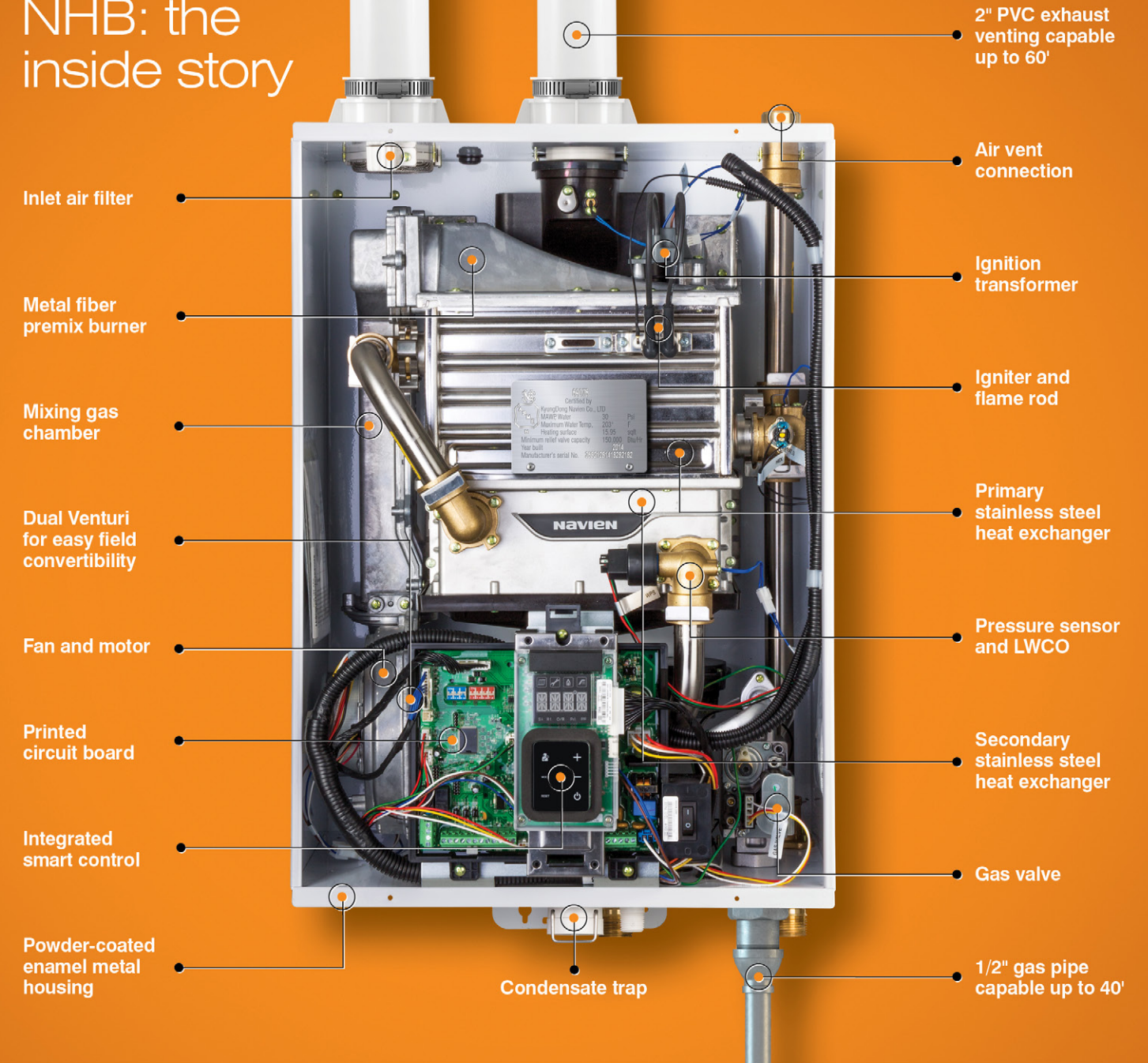
Gas input ranges

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

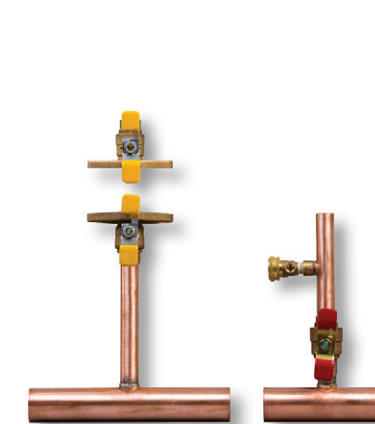
Warranty

Type	Heat Exchanger	Parts	Labor
Residential	15 years	5 years	1 year
Commercial	10 years	3 years	1 year

NHB: the inside story



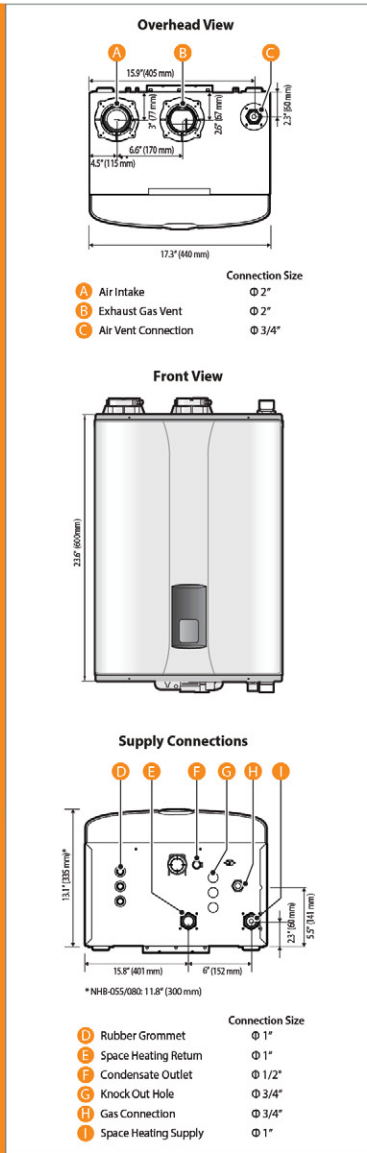
Primary Manifold Kit



Secondary Manifold Kit



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, 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			

Accessories

NHB Primary Manifold Kit (GFFM-MSOZUS-001)	NHB Secondary Manifold Kit (GFFM-SKTZUS-001)	Plumb Easy Valve Set (BCSA0563) 1" Standard	Residential Neutralizer (1 unit) (GXXX001322) Media Refill (GXXX001323)	Light Commercial Neutralizer (up to 6 units) (GXXX001324) Media Refill (GXXX001328)	Commercial Neutralizer (up to 16 units) (GXXX001325) Media Refill (GXXX001329)	Zone Pump Controller (FMZ-20) 2 Zones (FMZ-30) 3 Zones (FMZ-40) 4 Zones (FMZ-60) 6 Zones	System Supply/Return Sensors (GXXX001417)



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

