MNavien

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

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



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



Industry's largest turn down ratio providing ease of installation with

AFUE 95%



2" PVC venting up to 60', 3" PVC venting up to 150'.

in 2015 by EnergyStar.

Recognized as the most efficient

high operational efficiencies.

multiple zones while maintaining

ADJUSTABLE DELTA T RANGES

temperature control. maximize boiler performance and

Gives the installer the ability to



industry-leading options and features in the boiler operation

The smart control provides

parameters, including:

Adjustable heat capacity.

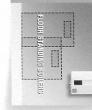
A timed hydronic supply water boost feature.

Adjustable anti-cycle timer.

Freeze protection.

Space

space than traditional floor standing boilers. design uses much less



Easy

help reduce



installation time.





otal contro

troubleshooting available at operations and All system setup

your fingertips.



saving

The sleek wall-hung

1/2" gas connections and 2" PVC venting to install

> Adjustable outdoor temperature reset curves. Outdoor reset and domestic hot water priority.

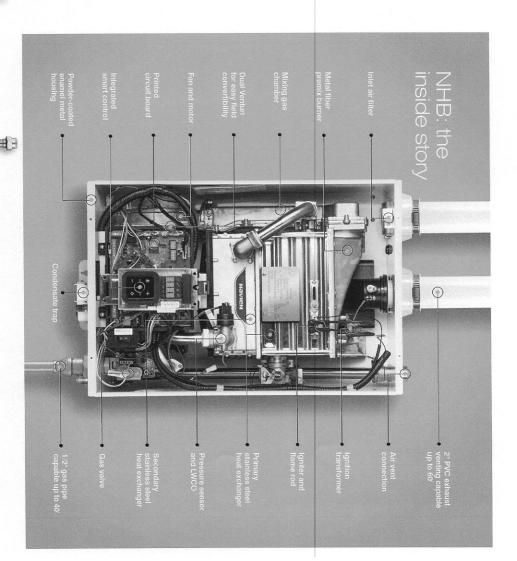
 Adjustable turn down ratio timing. Adjustable minimum burner time setting. Pressure LWCO with manual reset.

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	153
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





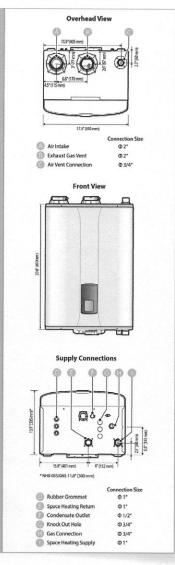
Primary Manifold Kit



Secondary Manifold Kit

Navien

Dimensions



Ratings & specifications

	Na	vien Conde	ensing Boiler Space H	leating Ratings	
Model Number ¹	Heating Input, MBH		Heating Capacity ² ,	Net AHRI Rating, Water ³ ,	AFUE2
Model Number	Min	Max	МВН	MBH,	%
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

Ratings are the same for Natural Gas models converted to Propane use.
Based on U.S. Department of Energy (DOE) test procedures.
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) :	24" (H) x 17" (W) x 13" (D)	
Weight		73 lbs (33 kg)		80 lbs (36 kg)	80 lbs (36 kg)	
Installation	type	Indoor wall-hung	g			
Venting typ	е	Forced draft dire	ect 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 Main supply		120V AC, 60Hz				
supply	Maximum power consumption	Less than 10A				
Materials	Casing	Cold rolled carbon steel				
Materials	Heat exchangers	Primary and secondary heat exchangers		ers: stainless steel		
	Exhaust	2" or 3" PVC, CPVC, approved polypropy (see installation manual for more details) 2" or 3" special gas vent type BH (Class		s)		
Venting Intake			VC, polypropylene jas vent type BH (Clas	s III, A/B/C)		
	Vent clearances	0" to combustibles				
Safety devices	Flame rod, APS, gas valve operation detector, ignition ope water temperature high limit switch, exhaust temperature h		ration detector,			

Accessories



NHB Primary Manifold Kit (GFFM-MSOZUS-001)



NHB Secondary Manifold Kit (GFFM-SKTZUS-001)



Plumb Easy Valve Set (BCSA0563) 1" Standard



Residential Neutralizer (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)











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

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