



Navien innovation.

Now available in a space-saving wall-hung boiler.

New NaviLink Wi-Fi remote control system...

Now available as an add-on accessory.

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 95.0% and turn down ratios up to 15:1. The NHB boiler is now available is four sizes: 55 MBH, 80 MBH, 110 MBH and 150 MBH.

Space saving



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.

TDR 15:1

installation with multiple zones while maintaining high operational efficiencies.

Industry's largest turn down ratio providing ease of



Recognized as the most efficient in 2016 by Energy Star.



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).



Gives the installer the ability to maximize boiler performance and temperature control.

The cascading feature for 150 and 110 models



will enable 1-16 units based on demand and balance workload for longer life.



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 gas convertible



Total control

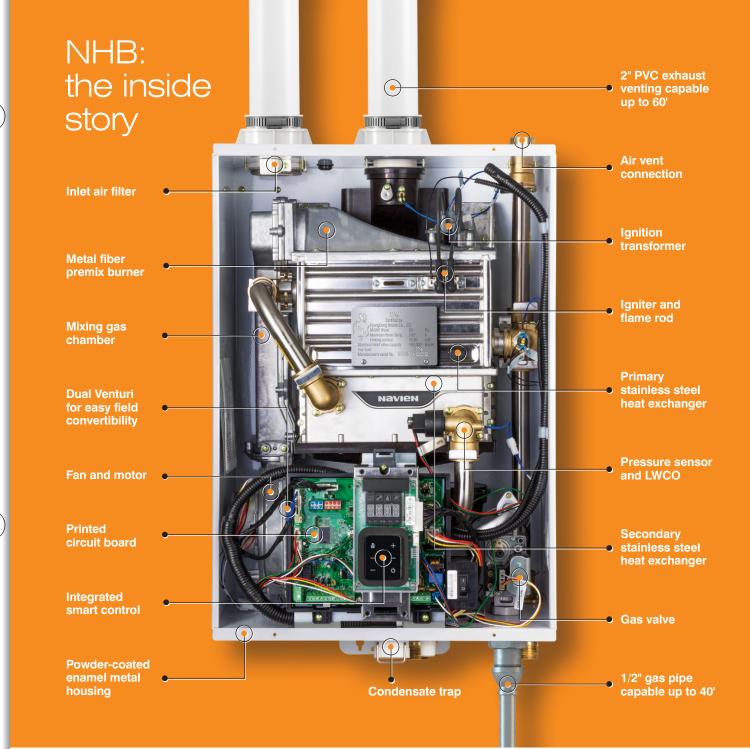
All system operations and troubleshooting available at your fingertips.

Before



After





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

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



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IUK 15:1

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

Recognized as the most efficient in 2016 by Energy Star.

2"-3" VENTING LONG DISTANCES

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).

ADJUSTABLE DELTA T RANGES

INTEGRATED SMART CONTROL

Gives the installer the ability to maximize boiler performance and temperature control.

The cascading feature for 150 and 110 models will enable 1-16 units based on demand and balance workload for longer life.

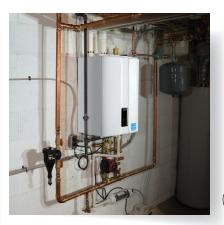
The smart control provides industry-leading options and features in the boiler operation parameters, including:

- 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
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Before



After



Common venting and



Navien's two largest condensing boilers, NHB-110 and NHB-150, can be cascaded and common vented

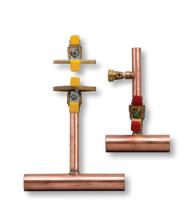
With our cascading technology, when a unit gets up to 70% capacity determined by the supply and return temperatures, the next unit will enable to help meet the hydronic space heating requirements. This hydronic space heating requirement and demand ratio will continue until all units are generating the needed hydronic space heat up to the maximum cascaded capacity. The Navien cascading system also balances out the workload of each unit for longer life. The NHB is dual certified for single and 2-pipe venting applications.

Manifold Kits

Navien's Manifold kits are ideal for hydronic space heating applications. With these manifolds we have done the piping work for you. Both primary and secondary loop manifold kits are designed to work on all NHB models for fast and clean installations. All you need to add is your own appropriately sized pump.



NHB Primary Manifold Kit GFFM-MSOZUS-001



NHB Secondary Manifold Kit GFFM-SKTZUS-001

Accessories



NaviLink™ Wi-Fi Control

This add-on accessory will enable customers with smartphones and tablets to control temperatures remotely, access usage data and receive diagnostic notifications on all Navien products (NPE-A, NPE-S, NCB-E, NHB).

PBCM-AS-001



SmartZone+ **Pump Controller**

Zone pump controller designed to work with NHB series units allowing control from 2 to 6 zone pumps. 2 Zones: PFMZ-02P-001

3 Zones: PFMZ-03P-001 4 Zones: PFMZ-04P-001 6 Zones: PFMZ-06P-001



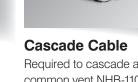
System Supply & **Return Sensors**

and return temperature of your hydronic heating system. Works with all NHB series boilers. (Sold in pairs.)

GXXX001417



Designed to sense supply



Required to cascade and common vent NHB-110 and NHB-150 models.

GXXX000546



Residential Neutralizer Kit. Single Unit

Residential condensate neutralizer for NHB series units designed to neutralize the condensate of one unit.

GXXX001322

Replacement Media for Residential Neutralizer

GXXX001323



Light commercial condensate neutralizer for NHB series units designed to neutralize

to 6 units.

Replacement Commercial Neutralizer

GXXX001328



GXXX001325

Neutralizer

GXXX001329

Replacement Media

for Commercial

Commercial Neutralizer

Commercial condensate neutralizer for NHB series units designed to neutralize the condensate of up the condensate of up to 16 units.

GXXX001324

Media for Light



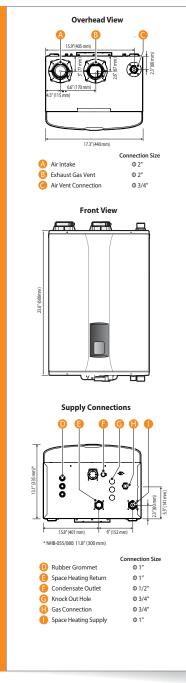
Plumb Easy Valve Set, 1"

1" isolation valves without relief valve designed to work on NHB series units. Allows for easy and quick servicing of hydronic space heating systems.

30010950A



Dimensions



Ratings & specifications

	N	lavien Cond	lensing Boiler Space He	eating Ratings	
Model Number ¹	Heating Ir	put, MBH	Heating Capacity ² ,	Net AHRI Rating, Water ³ ,	AFUE ² ,
woder Number	Min	Max	MBH	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.
- 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 1	24" (H) x 17" (W) x 13" (D)		
Weight		73 lbs (33 kg)		80 lbs (36 kg)			
Installation type	9	Indoor wall-hung					
Venting type		Forced draft direct vent					
Ignition		Electronic ignition					
Natural gas sur (from source)	oply pressure	3.5"-10.5" WC					
Propane gas su (from source)	upply pressure	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		e rod, APS, gas valve operation detector, ignition operation detector, temperature high limit switch, exhaust temperature high limit sensor					











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