

NHB Series Hot Water Boilers Specification Sheet

- Certified design according to ANSI Z21.13-2013/CSA 4.9-2013 standards for indoor residential applications
- Gas Input Ranges

NHB-055 - 55,000 to 8,000 BTUh **NHB-080** - 80,000 to 8,000 BTUh **NHB-110** - 110,000 to 10,000 BTUh

NHB-150 - 150,000 to 10,000 BTUh

- Turndown Ratio (TDR) of up to 15:1 one of the highest in its product class
- Dual Primary and Secondary Stainless Steel Heat Exchangers for optimum efficiency and durability
- Compatible with 2" PVC vent up to 60 ft* and 3" PVC vent up to 150 ft*
 (* with no elbows)
- Backlit Front Panel allows adjustment of hot water temperatures and boiler functions including Outdoor Reset Curve settings, pump operation, Integrated Low Water Safety Control, indirect DHW priority, and unit output capacity
- Low Voltage Terminal Strip contacts for thermostat or zone controller, indirect DHW tank thermostat, outdoor reset, 24 VAC device relay, air handler interrupt, and LWCO
- High Voltage Terminal Strip 120V contacts for use with boiler, system, and DHW pump wiring**

 (** 2A max per pump)
- Temperature Options two boiler operating setpoints: hydronic heating temperature and DHW (indirect) settings range from 77°F (25°C) up to 194°F (90°C)
- Outdoor Reset Sensor (included) the unit controls will sense outdoor ambient temperatures and adjust the boiler operation for maximum comfort and efficiency
- External System Supply & Return Sensors (optional) additional controls provide optimum system performance
- **AFUE** Ratings **NHB-055/080/110/150** 95.0% (NG/LPG)
- Compatible with Natural Gas (NG) and Propane (LPG)***
 (*** requires installation of included Field Conversion Kit by a qualified gas servicer)
- Certified by CSA, ASME, SCAQMD (Rule 1146.2 Type 1 Complies with 14 ng/J or 20 ppm NOx @ 3% O2)
- 15-Year Heat Exchanger and 5-Year Parts Warranty (Residential)
 10-Year Heat Exchanger and 3-Year Parts Warranty (Commercial)****
 (**** see Navien Limited Warranty)
- Optional accessories are available (see below)



Sleek Design - Compatible with 2" PVC Vent



INCLUDED Illuminated Front Panel with Advanced Hydronic Operation





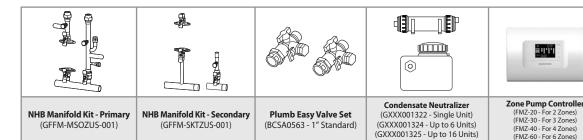




System Supply/Return

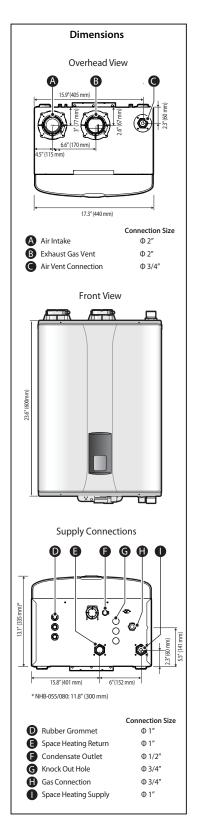
(GXXX001417)







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		Navien Condensing Boiler Space Heating Ratings				
Model Number ¹	Heating Input, MBH		Heating Capacity ² ,	Net AHRI Rating, Water ³ ,	AFUE²,	
	Min	Max	MBH	MBH	%	
NHB-055	8	55	51	44	95.0	
NHB-080	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.

Specifications								
Item		NHB-055	NHB-080	NHB-110	NHB-150			
Dimensions		24in. (H) x 17in. (W) x 12in. (D)		24in. (H) x 17in. (24in. (H) x 17in. (W) x 13in. (D)			
Weight		73 lb (33 kg)		80 lb (36 kg)	80 lb (36 kg)			
Installation Type		Indoor Wall-Hung						
Venting Type		Forced Draft Direct Vent						
Ignition		Electronic Ignition						
Natural Gas Supply Pressure (from source)		3.5 in.–10.5 in. WC						
Propane Gas Supply Pressure (from source)		8.0 in.–13.5 in. WC						
Natural Gas Manifold Pressure		-0.03 in. WC	-0.08 in. WC	-0.10 in. WC	-0.40 in. WC			
Propane Gas Manifold Pressure		-0.03 in. WC	-0.07 in. WC	-0.09 in. WC	-0.30 in. WC			
Gas Connection Size		3/4 in. 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: Stainless Steel						
Venting	Exhaust	2 in. or 3 in. PVC, CPVC, approved polypropylene* (* see Installation Manual for more details) 2 in. or 3 in. Special Gas Vent Type BH (Class III, A/B/C)						
	Intake	2 in. or 3 in. PVC, CPVC, polypropylene 2 in. or 3 in. Special Gas Vent Type BH (Class III, A/B/C)						
	Vent Clearance	0 in. to combustibles						
Safety Devices		Flame Rod, APS, Gas Valve Operation Detector, Ignition Operation Detector Water Temperature High Limit Switch, Exhaust Temperature High Limit Sensor						