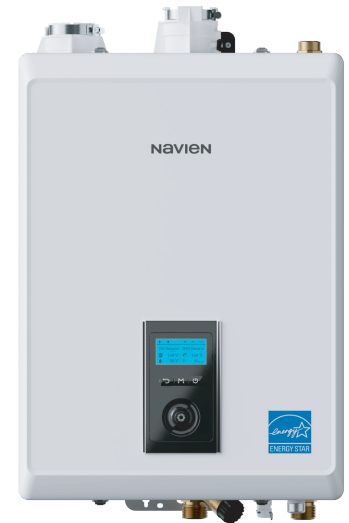


- Certified design according to **CSA/ANSI Z21.13:22 • CSA 4.9:22**
- Gas Input Ranges

NHB-055H	55,000 to 8,000 BTU/h	NHB-110H	110,000 to 10,000 BTU/h
NHB-080H	80,000 to 8,000 BTU/h	NHB-150H	150,000 to 15,000 BTU/h
- **Turn Down Ratio (TDR) up to 15:1** - one of the highest in its product class
- **Dual Primary and Secondary Stainless-Steel Exchangers** for optimum efficiency and durability
- Compatible with **2" PVC vent up to 65 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 setting, pump operation, Integrated Low Water Safety Control, indirect DHW priority, and unit output capacity
- **Low Voltage Terminal Strip**- contacts for thermostats or zone controller, Indirect DHW tank thermostat, outdoor reset, 24 VAC device relay, air handler interrupt, and LWCO
- **Built-in control for 3-zone pumps or 3-zone valves.**
Connections are powered, not just dry contact relays. PCB board supply power is 120VAC for zone pumps and 24VAC for zone valves
- **High Voltage Terminal Strip**- 120V contacts for use with boiler, system, and DHW pump wiring**
** 2A max per pump
- **Temperature Options** – two boilers operating setpoints: hydronic heating temperature and DHW (indirect) setting range from **77°F (25°C) up to 185°F (85°C)**
- **Ready-Link Cascade Compatible** for up to 16 units with the use of Communication Cables # GXXX000546 (**NHB-110H and NHB-150H ONLY**)
- **Common Vent Compatible** – allow cascade system to use single exhaust and/or intake pipe for up to 8 units with the use of Common Vent Backflow Damper Collar Kit #30014367A (NHB-110H and NHB-150H only)
- Compatible with **NaviLink Wi-Fi Control** (#PBCM-AS-001)
- **Outdoor Reset Sensor (included)** - the unit controls will sense outdoor ambient Temperature and adjust the boiler operations for maximum comfort and efficiency
- **External Supply & Return Sensor** (optional)- additional controls provide optimum system performance
- **AFUE Ratings : NHB-055H/080H/110H/150H - 95% (NG/LP)**
- Compatible with **Natural Gas (NG)** and **Propane (LP)*****
***requires installation of included Field Conversion Kit by qualified gas service
- Certified by **CSA, ASME, SCAQMD** (Rule 1146.2 Type 1- complies with 14 ng/l or 20 ppm at 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



Sleek Design
Compatible with 2" PVC Venting



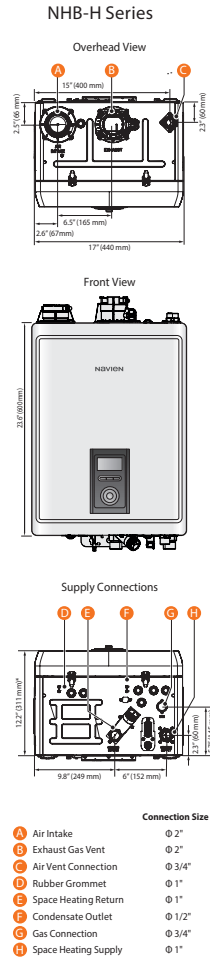
EZNav
back-lit control panel



Accessories

<p>NaviClean[™] Magnetic Filter GXXX001727</p>	<p>Plumb Easy Valve Set 1" Standard BCSA056</p>	<p>Ready-Link Communications Cable GXXX000546</p>	<p>Universal Temperature Sensor GXXX001769</p>	<p>Common Vent Collar Kit 30014367B (Includes Cascade Cable)</p>	<p>Ready-Link Rack Base (V3) GFFM-KDIZUS-005 Ready-Link Rack Add-on (V3) GFFM-KDIZUS-006</p>
<p>NHB-H Primary Manifold Kit GXXX002396</p>	<p>NaviLink[™] Lite Wi-Fi Control (1 unit) PBCM-AS-002</p>	<p>Residential Neutralizer (1 unit) GXXX001322 Residential Neutralizer Replacement Media GXXX001323</p>	<p>Light Commercial Neutralizer (up to 6 units) GXXX001324 Light Commercial Neutralizer Replacement Media GXXX001328</p>	<p>Commercial Neutralizer (up to 16 units) GXXX001325 Commercial Neutralizer Replacement Media GXXX001329</p>	<p>Zone Pump Controller 2 Zones: PFMZ-02P-001 3 Zones: PFMZ-03P-001 4 Zones: PFMZ-04P-001 6 Zones: PFMZ-06P-001</p>

Dimensions



Item	NHB-055H	NHB-080H	NHB-110H	NHB-150H
Dimensions	17.3 in (W) x 12.8 in (D) x 23.8 in (H)			
Weight	73 lb (33 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	-0.11 in WC	-0.17 in WC	-0.26 in WC	-0.40 in WC
Propane Gas Manifold Pressure	-0.11 in WC	-0.17 in WC	-0.25 in WC	-0.41 in WC
Gas Connection Size	¾ in NPT			
Power Supply	Main Supply	120V AC, 60Hz		
	Maximum Power Consumption	Less than 15 amperes		
Materials	Casing	Cold-rolled carbon steel		
	Heat Exchangers	Primary and Secondary Heat Exchangers: Stainless Steel		
Venting	Exhaust	2 in or 3 in PVC, CPVC, approved polypropylene* 2 in or 3 in Special Gas Vent Type BH (Class III, A/B/C), Stainless Steel		
	Intake	2 in or 3 in PVC, CPVC, polypropylene 2 in or 3 in Special Gas Vent Type BH (Class III, A/B/C), Stainless Steel		
	Vent Clearance	0 in to combustibles		
Safety Devices	Flame Rod, APS, Ignition Operation Detector Water Temperature High Limit Switch, Exhaust Temperature High Limit Sensor, Water Pressure Sensor, Vent Installation Detector (VID)			

* For more information about the approved vent material, refer to "5.4 Selecting Vent Pipe Materials" on page 61.

Temperature Setting Range

Item	Temperature Setting Range	Remarks
Space Heating	Supply	77–185°F (25–85°C)
	Return	68–158°F (20–70°C)
		Actual supply and return temperatures vary depending on the selected outdoor reset curve.