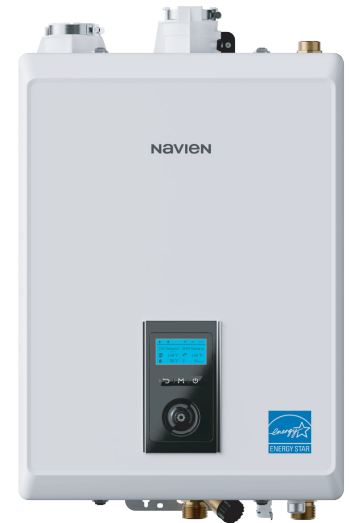


- Certified design according to **CSA/ANSI Z21.13:22 • CSA 4.9:22**
- Gas Input Ranges

| | | | |
|-----------------|-----------------------|-----------------|-------------------------|
| 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 94°F (90°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



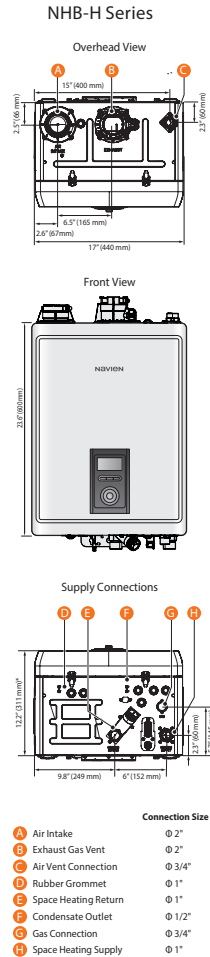
EZNav
back-lit control panel



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</p> <p>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</p> <p>Residential Neutralizer Replacement Media GXXX001323</p> | <p>Light Commercial Neutralizer (up to 6 units) GXXX001324</p> <p>Light Commercial Neutralizer Replacement Media GXXX001328</p> <p>Commercial Neutralizer (up to 16 units) GXXX001325</p> <p>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 | Actual supply and return temperatures vary depending on the selected outdoor reset curve. |
| | Return | |

* Navien reserves the right to change specifications at any time without prior notice