• Certified design according to ANSI Z21.13 - CSA 4.9-2014 standards for indoor residential applications

• Gas Input Ranges (Space Heating / DHW)

  NCB-150E - 60,000 (120,000 for DHW) to 12,000 BTUh
  NCB-180E - 80,000 (150,000 for DHW) to 14,000 BTUh
  NCB-210E - 100,000 (180,000 for DHW) to 18,000 BTUh
  NCB-240E - 120,000 (199,900 for DHW) to 18,000 BTUh

• Domestic Hot Water Flow Rate Capacity (*based on 77°F temperature rise)

  NCB-150E - 2.6 GPM
  NCB-180E - 3.4 GPM
  NCB-210E - 4.0 GPM
  NCB-240E - 4.5 GPM

• Dual Primary and Secondary Stainless Steel Heat Exchangers for optimum efficiency and durability

• Stainless Steel Flat Plate Heat Exchanger* for DHW

(* certified to IAPMO 59 05-2013 standards)

• Domestic Hot Water Priority

• Ready-Link Cascade Compatibility with Navien water heater models - can be connected with up to 15 tankless water heaters for increased DHW output

• Compatible with Navilink, Wi-Fi Control

• Internal Circulation Pump - comes included with a primary circulation pump and air vent for added value and convenience

• Low Voltage Terminal Strip - contacts for thermostat or zone controller, outdoor reset, 24 VAC device relay, air handler interrupt, and LWCO

• Temperature Options - two boiler setpoints: hydronic heating temperature settings range from 77°F up to 194°F and from 86°F to 140°F for DHW temperatures

• Outdoor Reset Sensor (included) - when installed with an NCB Series model, the unit controls will sense outdoor ambient temperatures and adjust the boiler operation for maximum comfort and efficiency

• AFUE Ratings

  NCB-150E/-180E/-210E/-240E - 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, NSF/ANSI 372 for Low Lead (DHW only)

• SCAQMD (Rule 1146.2 Type 1 - Complies with 14 ng/ft³ or 20 ppm NOx @ 3% O2)

• CRN - 2002.9YT (NCB-150E), 2003.9YT (NCB-180E), 0H6835.4 and 2004.9YT (NCB-210E), 0H6835.4 and 2005.9YT (NCB-240E)

• 10-Year Heat Exchanger and 5-Year Parts Warranty****

  (**** see Navien Limited Residential Warranty)

• Optional accessories are available (see below)

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** NCB Primary Manifold  
(GFMN-M12US-001)  
Plumb Easy Valve Set  
(3000932A - 3/4" Standard)  
(3002581A - 3/4" for Pipe Cover)  
Condensate Neutralizer  
(GX0000132 - Single Unit)  
(GX0000133 - Up to 6 Units)  
Ready-Link Cascade Communication Cable  
(GX00000546)  
Navilink™ Wi-Fi Control  
(FBCCM-A5-001)  
SmartZone™ Pump Controller  
(FPMW-SZP-001 - For 2 zones)  
(FPMW-SZP-002 - For 3 zones)  
(FPMW-SZP-003 - For 4 zones)  
(FPMW-SZP-004 - For 2 zones)  
(FPMW-SZP-005 - For 6 zones)  
(FPMW-SZP-006 - For 8 zones)  
3" Vent Termination Caps and Wall Flanges  
(GX0003873B)
### NCB Series Combination Boilers

#### Specification Sheet

<table>
<thead>
<tr>
<th>Model Number</th>
<th>NCB-150E</th>
<th>NCB-180E</th>
<th>NCB-210E</th>
<th>NCB-240E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating Input, MBH</td>
<td>Min</td>
<td>Max</td>
<td>Min</td>
<td>Max</td>
</tr>
<tr>
<td>Space Heating</td>
<td>12,000-60,000 BTU/H</td>
<td>14,000-80,000 BTU/H</td>
<td>18,000-100,000 BTU/H</td>
<td>18,000-120,000 BTU/H</td>
</tr>
<tr>
<td>Domestic Hot Water</td>
<td>12,000-120,000 BTU/H</td>
<td>14,000-150,000 BTU/H</td>
<td>18,000-180,000 BTU/H</td>
<td>18,000-199,900 BTU/H</td>
</tr>
</tbody>
</table>

#### Other Specifications

- **Water Pressure:** 12-30 psi
- **Water Connection Size:** 1 in NPT

### Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>NCB-150E</th>
<th>NCB-180E</th>
<th>NCB-210E</th>
<th>NCB-240E</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gas Input</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Space Heating</td>
<td>12,000-60,000 BTU/H</td>
<td>14,000-80,000 BTU/H</td>
<td>18,000-100,000 BTU/H</td>
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<td>18,000-199,900 BTU/H</td>
</tr>
<tr>
<td>Flow Rate (DHW)</td>
<td>2.6 GPM (9.8 L/m)</td>
<td>3.4 GPM (12.9 L/m)</td>
<td>4.0 GPM (15.1 L/m)</td>
<td>4.5 GPM (17.0 L/m)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>17&quot; (W) x 28&quot; (H) x 12&quot; (D)</td>
<td>17&quot; (W) x 28&quot; (H) x 12&quot; (D)</td>
<td>17&quot; (W) x 28&quot; (H) x 12&quot; (D)</td>
<td>17&quot; (W) x 28&quot; (H) x 12&quot; (D)</td>
</tr>
<tr>
<td>Weight</td>
<td>66 lbs (30kg)</td>
<td>74 lbs (34kg)</td>
<td>84 lbs (38kg)</td>
<td>84 lbs (38kg)</td>
</tr>
</tbody>
</table>

### Power Supply

- **Main Supply:** 120V AC, 60Hz
- **Maximum Power Consumption:** 200W (up to 2 amperes)

### Materials

- **Casing:** Cold Rolled Carbon Steel
- **Heat Exchangers:** Primary/Secondary Heat Exchanger: Stainless Steel, DHW Heat Exchanger: Stainless Steel

### Venting

- **Exhaust:** 2” or 3” PVC, CPVC, Approved Polypropylene, 2” or 3” Special Gas Vent Type BH (Class II, A/B/C)
- **Intake:** 2” or 3” PVC, CPVC, Polypropylene, 2” or 3” Special Gas Vent Type BH (Class II, A/B/C)
- **Vent Clearances:** 0” to Combustibles

### Safety Devices

- Flame Rod, APS, Gas Valve Operation Detector, Ignition Operation Detector, Water Temperature High Limit Switch, Exhaust Temperature High Limit Sensor

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

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