## High-Efficiency Condensing Gas Combination Boilers

### Noble Fire Tube Combi

**SMART CONTROL™**

Enhanced Operating System

### Three Sizes:
- 110,000, 150,000 and 199,999 BTU/HR

### Industry-Leading DHW Delivery Up to 4.8 GPM

### True Instantaneous Response

### Easy Installation and Serviceability

### User-Friendly Interface

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**Most Efficient 2017**
www.energystar.gov

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95% AFUE Efficiency

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Lochinvar
High Efficiency Boilers & Water Heaters

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10 Year Heat Exchanger
5 Year Parts Warranty

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Lochinvar
USA
What Makes NOBLE The Best Combi Boiler?

DELIVERS MORE HOT WATER
It’s sized large enough to quickly meet domestic hot water (DHW) load. Provides DHW from 2.6 (NKC110) to 4.8 gpm (NKC199) at a 77°F temperature rise.

FASTER DHW RESPONSE TIME
With many combi boilers when you turn on a hot water faucet, you initially get hot water and then a brief burst of cold water before the hot water resumes. Thanks to its patent-pending control technology, this combi boiler eliminates this cold water “sandwich.”

QUIET OPERATION
Operates so silently that you often have to look at the user-friendly interface to see if it’s running.

EASIER TO INSTALL AND PROGRAM
With our Set-Up Wizard, you can program the boiler in less than two minutes. The user-friendly interface uses real words—not confusing codes—to guide the installer in setting up vital system parameters.

BETTER TECHNICAL SUPPORT AND TRAINING
Answers are accessible whether online or on-campus. LochinvarU.com is always on, 24/7 for technical support. And Lochinvar University is the industry’s best-equipped training center.

10:1 TURNDOWN RATIO
Operates as low as 10% of the maximum firing rate, preventing on/off short cycling at the lowest DHW demands or small heating demands.

AIR HANDLER INTERLOCK
Prevents cool air circulation in Hydro-Air installations when the appliance is making DHW.

CONSUMER FINANCING AVAILABLE
Check with your local Sales Representative for additional information.

A Game-Changer In Combi Water Heating
Lochinvar has long been the innovation leader in commercial boilers—and now it’s bringing that engineering excellence to residential combi boilers. Lochinvar’s legendary reliability and performance are now available for apartments and homes, where the combi boiler’s next-generation fire tube design can provide hot water supply and space heating faster and more efficiently than ever before.

The NOBLE™ combi boiler provides a space-saving choice for builders and specifiers, lowering installation costs by reducing the mechanical equipment needed to provide rapid, reliable hot water supply and efficient space heating. It also gives plumbing contractors a money-saving alternative for single-family housing with 1 or 2 bathrooms.
Raising the Bar in Combi Boiler Design

Removing the front panel provides convenient access to the combustion system, control panel and key components. This simple-to-install-and-service combi boiler is making an impact on the industry.

The unique fire tube heat exchanger design is what enables NOBLE to produce the results users deserve and have come to expect from Lochinvar.

1 ADAPTER-FREE FLUE CONNECTION
Multi-material connector allows either PVC, CPVC, polypropylene or stainless steel connection directly to the appliance without adapters. NOBLE also has a built-in combustion analyzer port.

2 DIRECT VENTING UP TO 100 FEET
Offers five venting options for tremendous installation flexibility. It permits direct-vent air intake and exhaust runs up to 100 equivalent feet using either PVC, CPVC, polypropylene or AL29-4C stainless steel vent pipe.

3 ADVANCED NEGATIVE REGULATION TECHNOLOGY
Safely and reliably operates with supply gas pressure as low as 4 inches water column. Its negative regulation (neg/reg) technology eliminates mechanical dampers as it automatically adjusts fan speed to ensure the correct volume and mix of fuel and air throughout the firing range.

4 INNOVATIVE FIRE-TUBE HEAT EXCHANGER
The fire tube design can produce a higher heat transfer coefficient than traditional fire tubes.

5 BRAZED PLATE HEAT EXCHANGER
Stainless Steel Heat Exchanger that quickly transfers heat from the boiler system to the domestic water satisfying DWH load.

6 WATER CONNECTIONS FOR EASY INSTALLATION
NPT water connections make installation easy, especially with our optional isolation valves.

The product images shown are for illustration purposes only and may not be an exact representation of the product.
**Noble Combi Boiler Dimensions and Specifications**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Input (MBH) Max. Min.</th>
<th>AFUE%</th>
<th>Heating Capacity MBH Net AHRI Rating MBH</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<td>NKC110N</td>
<td>110</td>
<td>11</td>
<td>95.0</td>
<td>102</td>
<td>17-1/4”</td>
<td>18”</td>
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<td>6-3/4”</td>
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<tr>
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<td>11-1/2”</td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions and Specifications**

- **Model**: NKC110N
- **Input (MBH)**: Max. 110, Min. 11
- **AFUE%**: 95.0
- **Heating Capacity MBH**: 102
- **Net AHRI Rating MBH**: 17-1/4”
- **Dimensions**:
  - **A**: 18”
  - **B**: 2-3/4”
  - **C**: 18”
  - **D**: 2-3/4”
  - **E**: 6-1/2”
  - **F**: 2-3/4”
  - **G**: 11-1/2”

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**Features**

- **Air Handler Interlock**
- **Flow Switch Contacts**
- **Low-Water Cutoff Connection**
- **System Sensor Contacts**
- **Outdoor Air Sensor Contacts**
- **Cascade Contacts**
- **Time Clock for Data Logging**
- **Last 10 Lockouts**
- **Backup High Limit**
- **Low-Water Flow Safety Control & Indication**
- **Password Security**
- **Built-in Cascading Sequencer for up to 8 units**
- **Condensate Trap**
- **Built-in Circulating Pump**
- **2000534158**

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**Lochinvar**

High Efficiency Boilers & Water Heaters

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