HIGH EFFICIENCY CONDENSING COMBINATION BOILERS

COMFORT DONE RIGHT.

95% AFUE Efficiency

LOCHINVAR

DEIGNED ★ ENGINEERED ★ ASSEMBLED USA

10 YEAR HEAT EXCHANGER ★ 5 YEAR PARTS★ 5 YEAR LABOR

95% AFUE Efficiency
A HISTORY OF INNOVATION

For nearly 80 years, Lochinvar, an American company, has been a leader of innovation and high-efficiency water heating. Through Lochinvar’s pride in leadership and commitment to excellence, the company has continually improved year after year.

Today, Lochinvar touts the broadest line of high-efficiency water heating solutions, a world-class research & development department, comprehensive service with every sale and industry-leading training through Lochinvar University.

NO ONE BRINGS IT ALL TOGETHER LIKE LOCHINVAR

Lochinvar is the industry leader that other leading companies call upon for the most advanced and efficient water heating products in the world. For that reason, Lochinvar is trusted to go beyond the call of duty to find a solution for every project, no matter the size. You will not find a water heating company that works harder or cares more.

That’s why no one brings it all together quite like Lochinvar.
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 DHW load.

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

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.

Advanced Electronic Control
The backlit, user-friendly LCD display provides diagnostic information and system status in real words, not codes. The Set-Up Wizard display makes it simple to set system parameters in just minutes, including:

- Space Heat Set Point (Coldest Day)
- Domestic Hot Water Set Point
- Maximum Space Heat Set Point
- Space Heat Rate Limiting
- Auto Reset High Limit
- Outdoor Temperature/Warm Weather Shutdown
- 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 TRUE ALL-IN-ONE SOLUTION

Heat and hot water everywhere you need it.

The Noble™ fire tube combi boiler is a money-saving solution that delivers both immediate hot water and comfortable home heating.

**Lower Your Energy Bills**
The ENERGY STAR® qualified Noble combi boiler delivers 95% efficiency, which means 95 cents out of every energy dollar gets converted into dependable hot water and comfortable space heating.

**Save Space**
At about the size of a suitcase the Noble combi boiler is small enough to fit in a closet or small room, so it doesn’t dominate your living space.

**Endless Hot Water**
The Noble combi boiler delivers 4.8 gallons of hot water per minute*—the highest capacity in the combi market—so users can run multiple fixtures at the same time.

**Quicker Hot Water**
With the patented control technology of the Noble combi boiler, Noble can make immediate hot water for showers, cooking and more.

**Rugged Reliability**
Noble’s simple design is easy to service and its commercial grade construction ensures long lasting reliability.

**Outstanding Warranty**
You get 10 worry-free years of protection on the boiler heat exchanger, plus five years of coverage on all other parts.
**Noble Combi Boiler Dimensions and Specifications**

**Model Number** | **Input (MBH) Max.** | **Min.** | **AFUE%** | **Heating Capacity MBH** | **Net AHRI Heating Rating MBH** | **Gas Conn.** | **Water Conn.** | **Air Inlet** | **Vent Size** | **Ship Wt.**
---|---|---|---|---|---|---|---|---|---|---
NKC110N | 110 | 11 | 95.0 | 102 | 89 | 32-1/2” | 17-1/4” | 18” | 14-3/4” | 2.3/4” | 6-1/2” | 3/4” | 2-3/4” | 1.9
NKC150N | 150 | 15 | 95.0 | 139 | 121 | 32-1/2” | 18-3/4” | 18” | 6-3/4” | 2.3/4” | 6-1/2” | 3/4” | 11-3/4” | 3.9
NKC199N | 199 | 19.9 | 95.0 | 185 | 161 | 32-1/2” | 18-3/4” | 18” | 5-1/2” | 2.3/4” | 6-1/2” | 3/4” | 11-1/2” | 5.9

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**Noble Combi Boiler**

- Low Voltage Terminal Strip
- 120 VAC / 60 Hertz / 1 Phase Power Supply
- High-Voltage Junction Box
- Smart Control™ Features
  - Programmable System Efficiency Optimizers
    - DHW Response Time
    - DHW Pre Heat
    - Outdoor Air Reset Curve
  - Two Pump Control
    - System Pump
    - Boiler Pump
  - High-Voltage Junction Box
    - 120 VAC / 60 Hertz / 1 Phase Power Supply
  - Low Voltage Terminal Strip
- Energy Star Most Efficient Recognition
- 95% DOE AFUE Efficiency
- Modulating Burner with 10:1 Turndown
- Direct-Spark Ignition
- Low-Nox Operation
- ASME Stainless Steel Heat Exchanger
  - 50 psi Working Pressure w/ASME Relief Valve
- Vertical & Horizontal Direct-Vent
  - PVC, CPVC, Polypropylene or SS Venting
  - up to 100 feet
- Condensate Trap
- Other Features
  - Automatic Reset High Limit
- Adjustable High Limit w/Manual Reset
- Built-In Circulating Pump
- Wall-Mount Bracket
- Zero Clearances to Combustible Materials
- 10-Year Warranty
- (See Warranty for Details)
- 5-Year Parts Warranty
- Firering Codes
  - M9 Standard Construction/California Code

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*Lochinvar should be consulted before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.*

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**Notes:** Indoor installation only. All information subject to change. Change “N” to “L” for LP gas models. *The Net AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15.*