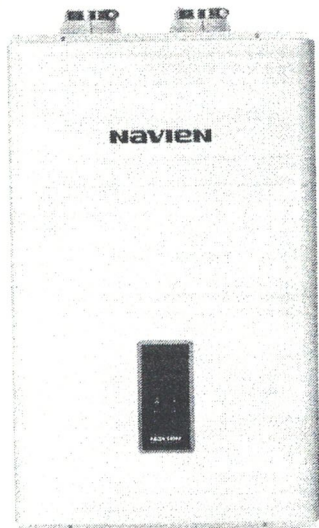


Navien NCB-240E

Condensing Combination Gas Boiler & Water Heater



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Product Description

Additional Information

Shipping Information

THIS MODEL IS FOR USE WITH NATURAL GAS OR PROPANE



The NCB-E Series Condensing Combination Gas Boiler & Water Heater is a high efficiency tankless condensing combination boiler with the capacity to supply both heat and domestic hot water for a wide variety of applications. The NCB-E features a Grundfos pump, an integral air vent, a PRV top connection, a quieter fan and a new front cover bevel design.

The NCB-E saves installation time and takes up 80% less space than a traditional floor standing boiler and tank water heater.

All NCB-E models allow for easy convertibility from Natural Gas to Propane. (NG to LP Conversion Kit Included)

Features

Ultra Condensing Efficiency

- Navien's Condensing Technology provides high efficiency.
- Energy and money savings over tanked and traditional water heaters.

Two Stainless Steel Heat Exchangers

- Higher resistance to corrosion and erosion compared to copper heat exchangers provides longer life expectancy.
- Cuts down on mineral deposits.

Low NOx Emissions (≤ 20ppm)

- Consistent air/gas mixture is delivered by new metal fiber burner design, improving combustion efficiency.
- Less green house effect, less acid rain.
- SCAQMD 1146.2 strict NOx emissions standard compliant.

2" PVC, CPVC, Polypropylene Venting Up To 60' Run

- Flue can be pulled through the existing vent with 2" venting option.
- Use 3" vents up to 150' with standard 2" x 3" adapters.

Utilizes Existing 1/2" Gas Line

- Better adaptability to low gas pressure applications due to negative pressure gas valve and fan with dual venturi operation.
- NCB models can be installed 1/2" gas lines up to 24'.

Field Convertible

- NCB models easily converted from NG to LP. (Conversion Kit Included)

Technology Meets Ecology, Combination Boiler

- The perfect solution for those who need both a space heating application and domestic hot water.
- Water is heated only when needed, making it cost efficient as well as environmentally friendly.

Hydronic Heating Benefits

- Clean: because there is no air movement, there is little chance to cause lower humidity or dust.
- Silent: no blowers are necessary for forced circulation resulting in silent heating.
- Comfort: floors are kept warm and indoor air fresh, making everyone feel comfortable.
- Coverage: heating from floor to ceiling is made possible because of radiant heat.
- Economical: warmth is transmitted throughout the house hours after turning off the heater through radiant heat in the floors.

Automatic Water Filling System

- When the unit detects a water shortage water fills automatically into the space heating pipes.

Powerful Anti-Freeze Feature

- The built-in control system is designed to keep the plumbing frost free during the winter.

Illuminated Front Panel with Advanced Hydronic and DHW Operation

- Self-diagnostics
- Display water flow rate and temperature
- Display cascade operation status
- Display temperature in °F or °C
- Easy to use interface
- Easy to setup

Combi-boiler Specifications

Gas Input Ranges

- **Minimum/Maximum Natural Gas Rate Input BTUs (Space Heating):** 18,000 - 120,000 BTU/H
- **Minimum/Maximum Propane Rate Input BTUs (Space Heating):** 18,000 - 120,000 BTU/H
- **Minimum/Maximum Natural Gas Rate Input BTUs (Domestic Hot Water):** 18,000 - 199,900 BTU/H
- **Minimum/Maximum Propane Rate Input BTUs (Domestic Hot Water):** 18,000 - 199,900 BTU/H
- **Heating Capacity (MBH):** 112
- **Net AHRI Rating, Water (MBH):** 97
- **AFUE:** 95.0%
- **Flow Rate (DHW) 77°F(43°C) Temp Rise:** 4.5 GPM (17.0 L/m)

General Combi-boiler Data

- **Manufacturer:** Navien
- **SKU:** NCB-240E
- **Manufacturer's Part Number:** NCB-240E
- **Dimensions:** 17"(W) x 28"(H) x 12"(D)
- **Weight:** 84 lbs (38kg)
- **Installation Type:** Indoor Wall-Hung
- **Venting Type:** Forced Draft Direct Vent
- **Ignition:** Electronic Ignition
- **Water Pressure (Hydronic/DHW):** 12-30 PSI / 15-150 PSI
- **Natural Gas Supply Pressure (from source):** 3.5" - 10.5" WC
- **Propane Supply Pressure (from source):** 8.0" - 13.5" WC
- **Natural Gas Manifold Pressure (min to max):** -0.06" WC to -1.2" WC
- **Propane Manifold Pressure (min to max):** -0.03" WC to -0.98" WC
- **Minimum Flow Rate (DHW):** 0.5 GPM (1.9 L/m)
- **Approved Fuel Type:** Natural Gas or Propane (NG to LP Conversion Kit Included)
- **Certifications:** CSA, ASME, NSF/ANSI 372 for Low Lead (DHW only), SCAQMD (Rule 1146.2 Type-1 - Complies with 14 ng/J or 20 ppm NOx @ 3% O2)
- **Warranty Information:** 10-Year Heat Exchanger and 5-Year Parts Warranty