High Efficiency Commercial Modulating, Condensing Boilers

PACKED WITH FEATURES

- Large Color Touch Screen
- Up to 96.6% Thermal Efficiency
- 5 Models 399 to 850 MBH
- Vent up to 100 feet, Horizontal or Vertical
- Zero Clearance to Combustibles for Tight Installations
NeoTherm is a direct vent, sealed combustion, condensing boiler with thermal efficiency as high as 96.6% that modulates with a 5 to 1 turndown.

Low NOx emissions, for a package that’s easy to use and easy on the environment.

Available for propane gas, with a selection of factory mounted options, and five models (399 to 850 MBH), these indoor models are suitable for a broad variety of residential and commercial applications.

The boiler features an ASME stainless steel heat exchanger, optional boiler pump and LAARS control system.

**NeoTherm Controls Features:**

- Large, easy to navigate color touch screen
- Easy to use menus for login, quick start, advanced setup, tests and diagnostics
- Integrated PID temperature and ignition control
- Accepts 4-20mA or 0-10VDC input for modulation
- Cascade up to 8 NeoTherm boilers
- Quick start feature for easy one boiler setups
- Outdoor reset with customizable reset curves, DHW override and warm weather shutdown
- Complete diagnostics for analog and digital inputs
- Test feature allows for forced min and max firing
- Display holds, alerts and errors in clear text form
- Password protected parameters for installer use
LAARS® NEOThERM® HYDRONIC BOILER

Standard Equipment:
- High condensing efficiency
- Modulation down to 20% of full fire (5:1 turndown)
- Sealed combustion chamber
- Stainless Steel Heat Exchanger
- Pre-mix stainless steel burner
- Low NOx system
- Horizontal or vertical direct vent
- Horizontal vent and air terminals
- Vent and air pipe lengths of up to 100 equivalent feet (each)
- Built-in condensate trap
- Vent temperature cutoff feature
- Integrates with Building Automation Systems
- Spark ignition system
- 160 psi maximum working pressure
- Stainless steel heat exchanger with welded construction (no gaskets)
- ASME “H” stamp
- 75 psi (517 kPa) ASME rated pressure relief valve
- Temperature & pressure gauge
- Drain valve
- Multiple pump control for boiler pump, system pump and indirect domestic water pump, each with delay
- Connections from top of unit
- Electronic PID modulating control
- Large color touch screen
- Alarm output
- Accepts external 4-20mA modulation control (0-10V optional)
- Indirect water heater priority with sensor
- Outdoor reset with sensor
- On/off toggle switch
- Manual reset high limit
- Burner sight glass
- Zero clearance to combustible surfaces for alcove and closet installations
- 10 year limited warranty

NeoTherm Boiler

<table>
<thead>
<tr>
<th>Size</th>
<th>Natural Gas</th>
<th>Propane</th>
<th>Input MBH</th>
<th>Input kW</th>
<th>Output MBH</th>
<th>Output kW</th>
<th>Connection Size (NPT)</th>
<th>Water Dia</th>
<th>Water Gas lbs.</th>
<th>Shipping Weight lbs.</th>
<th>Shipping Weight kg</th>
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<tbody>
<tr>
<td>NRH 399</td>
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<td>399</td>
<td>117.2</td>
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<td>113.1</td>
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<td>1/2&quot;</td>
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<td>1/2&quot;</td>
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<td>1/2&quot;</td>
<td>503</td>
<td>228</td>
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Dimensional Data

*NeoTherm boilers are shipped with adapters for the air and vent collars that accept 4" or 6" pipe