optiTHERM®

Modulating Condensing Commercial Water Heater

Optimizes thermal efficiency by modulating fuel input to supply variable Domestic Hot Water demand

**optiTHERM** features:

- Maximum inputs from 125,000 to 500,000 BTU/H
- Fully modulating from as low as 60,000 BTU/H
- Up to 99% thermal efficiency
- 99, 100 and 125 gallon capacities
- Five-year tank/heat exchanger limited warranty
- Automatic cathodic corrosion protection system
- **NO SACRIFICIAL ANODE RODS**
- PVC/CPVC/ABS venting - 240' max. power vent length
- LCD user interface with optional BMS interface
- **Turboflue®** helical-fin multi-stage heat exchanger
- **ecomate®** insulation
  - Does not contribute to global warming
- Glass-fused-to-steel water vessel and heat exchanger
- SCAQMD certified Ultra-Low NOx
- Natural gas or propane fuel
- Stealth Quiet™ operation

We take water heaters very personally!
Caution: The recommended maximum hot water temperature setting for normal residential use is 120°F. Bock recommends a tempering valve or anti-scald valve be installed and used according to the manufacturer's directions to prevent scalding.

NOTE: "A" denotes ASME construction.

Storage, Inputs, Recovery & Efficiency

<table>
<thead>
<tr>
<th>Model</th>
<th>Storage GAL (L)</th>
<th>Max. Rated Input BTU/HR (KW)</th>
<th>Min. Rated Input BTU/HR (KW)</th>
<th>Recovery @ 100°F Rise GAL/L/HR</th>
<th>1st Hr. Del. @ 100°F Rise GAL (L)</th>
<th>Thermal Efficiency @ Max Input (%)</th>
<th>Thermal Efficiency @ Min Input (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT125N</td>
<td>99 (375)</td>
<td>125,000 (36.6)</td>
<td>60,000 (17.6)</td>
<td>144 (545)</td>
<td>213 (806)</td>
<td>96</td>
<td>99</td>
</tr>
<tr>
<td>OT150N</td>
<td>99 (375)</td>
<td>150,000 (44.0)</td>
<td>60,000 (17.6)</td>
<td>173 (655)</td>
<td>242 (916)</td>
<td>96</td>
<td>99</td>
</tr>
<tr>
<td>OT199N</td>
<td>99 (375)</td>
<td>199,000 (58.3)</td>
<td>60,000 (17.6)</td>
<td>229 (867)</td>
<td>299 (1,132)</td>
<td>96</td>
<td>99</td>
</tr>
<tr>
<td>OT200N-A</td>
<td>100 (378)</td>
<td>199,999 (58.6)</td>
<td>76,000 (22.3)</td>
<td>228 (863)</td>
<td>298 (1,128)</td>
<td>95</td>
<td>98</td>
</tr>
<tr>
<td>OT250N-A</td>
<td>100 (378)</td>
<td>250,000 (73.3)</td>
<td>76,000 (22.3)</td>
<td>282 (1,067)</td>
<td>352 (1,332)</td>
<td>94</td>
<td>98</td>
</tr>
<tr>
<td>OT299N-A</td>
<td>100 (378)</td>
<td>299,999 (87.9)</td>
<td>76,000 (22.3)</td>
<td>334 (1,264)</td>
<td>404 (1,529)</td>
<td>93</td>
<td>98</td>
</tr>
<tr>
<td>OT300N-A</td>
<td>125 (473)</td>
<td>300,000 (87.9)</td>
<td>135,000 (39.6)</td>
<td>342 (1,295)</td>
<td>430 (1,627)</td>
<td>95</td>
<td>97</td>
</tr>
<tr>
<td>OT400N-A</td>
<td>125 (473)</td>
<td>399,999 (117.2)</td>
<td>135,000 (39.6)</td>
<td>451 (1,707)</td>
<td>539 (2,040)</td>
<td>94</td>
<td>97</td>
</tr>
<tr>
<td>OT500N-A</td>
<td>125 (473)</td>
<td>500,000 (146.5)</td>
<td>135,000 (39.6)</td>
<td>558 (2,112)</td>
<td>646 (2,445)</td>
<td>93</td>
<td>97</td>
</tr>
</tbody>
</table>

Dimensions and Connections

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions in Inches (cm)</th>
<th>Cold NPT</th>
<th>Hot NPT</th>
<th>Recirc. Return NPT</th>
<th>Gas NPT</th>
<th>Air Intake PVC</th>
<th>Exhaust Vent PVC</th>
<th>Shipping Weight LBS (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT125N</td>
<td>A: 78.50 (199) B: 28.00 (71) C: 63.50 (161) D: 11.25 (29) E: 9.19 (23) F: 62.43 (159) G: 74.25 (189) H: 36.43 (93)</td>
<td>1.5&quot;</td>
<td>1.5&quot;</td>
<td>1&quot;</td>
<td>3/4&quot;</td>
<td>3&quot;</td>
<td>3&quot;</td>
<td>670 (304)</td>
</tr>
<tr>
<td>OT150N</td>
<td>A: 78.50 (199) B: 28.00 (71) C: 63.50 (161) D: 11.25 (29) E: 9.19 (23) F: 62.43 (159) G: 74.25 (189) H: 36.43 (93)</td>
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<td>3/4&quot;</td>
<td>3&quot;</td>
<td>3&quot;</td>
<td>670 (304)</td>
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<td>A: 78.50 (199) B: 28.00 (71) C: 63.50 (161) D: 11.25 (29) E: 9.19 (23) F: 62.43 (159) G: 74.25 (189) H: 36.43 (93)</td>
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<td>1&quot;</td>
<td>3/4&quot;</td>
<td>3&quot;</td>
<td>3&quot;</td>
<td>670 (304)</td>
</tr>
<tr>
<td>OT300N-A</td>
<td>A: 78.50 (199) B: 32.00 (81) C: 62.78 (159) D: 11.43 (29) E: 9.43 (24) F: 61.43 (156) G: 74.00 (188) H: NA</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>NA</td>
<td>1.5&quot;</td>
<td>4&quot;</td>
<td>4&quot;</td>
<td>1,200 (544)</td>
</tr>
<tr>
<td>OT400N-A</td>
<td>A: 78.50 (199) B: 32.00 (81) C: 62.78 (159) D: 11.43 (29) E: 9.43 (24) F: 61.43 (156) G: 74.00 (188) H: NA</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>NA</td>
<td>1.5&quot;</td>
<td>4&quot;</td>
<td>4&quot;</td>
<td>1,200 (544)</td>
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<tr>
<td>OT500N-A</td>
<td>A: 78.50 (199) B: 32.00 (81) C: 62.78 (159) D: 11.43 (29) E: 9.43 (24) F: 61.43 (156) G: 74.00 (188) H: NA</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>NA</td>
<td>1.5&quot;</td>
<td>4&quot;</td>
<td>4&quot;</td>
<td>1,200 (544)</td>
</tr>
</tbody>
</table>

NOTE: Change the suffix from "N" to "LP" to designate liquid propane.

T&P valve and brass drain valve factory installed.

Standard Voltage (all): 120V, 60 Hz, 1P

Maximum Working Pressure: 150 psi (1034 kPa)

These models meet or exceed current ASHRAE standards.

Warning: Installation should be in accordance with all national and/or local codes. In the absence of local codes, refer to NFPA 54 or CSA B149.1.

Caution: The recommended maximum hot water temperature setting for normal residential use is 120°F. Bock recommends a tempering valve or anti-scald valve be installed and used according to the manufacturer’s directions to prevent scalding.