

125,000 to 299,999 BTU/hr

# BOCK

## WATER HEATERS

### Modulating Condensing Commercial Water Heaters

*Up to 99% Thermal Efficiency by Modulating Fuel Input  
to Supply Variable Domestic Hot Water Demand*

■ Five-Year Limited Tank/Heat Exchanger Warranty  
– THE INDUSTRY'S FINEST

#### OptiTherm® for Optimal Thermal Efficiency:

- Maximum inputs from 125,000 to 299,999 BTU/hr  
– Fully modulating from as low as 60,000 BTU/hr
- 99/100 gallon capacities
- Up to 99% thermal efficiency
- Automatic cathodic corrosion protection system  
– No sacrificial anode rods
- PVC/CPVC/ABS venting - 240' maximum  
power vent length
- LCD user interface with optional BMS interface
- Ecomate® insulation
- Glass-fused-to-steel water tank  
and heat exchanger
- SCAQMD certified Ultra-Low NOx
- Natural gas or propane fuel
- Stealth Quiet™ operation
- Fits through a 36-inch door
- Concentric vent kit available

#### Turboflue® High Performance Heat Exchanger:

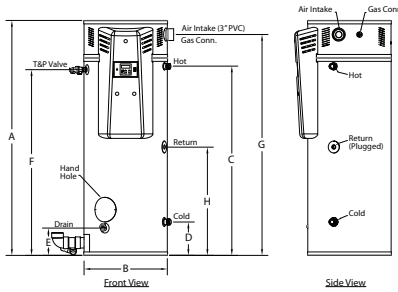
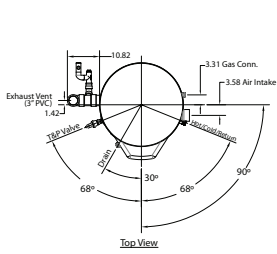
- Patented helical-fin multi-stage design
- Superior heat conduction  
and fuel efficiency

Made in the USA

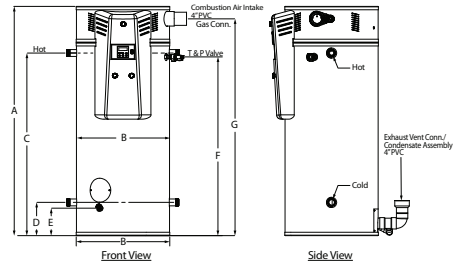
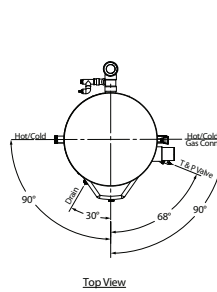


# OPTiTHERM®

BUILT LIKE A BOCK



OT125/OT150/OT199



OT200/OT250/OT299

**Minimum and Maximum Vent Lengths - 3" / 4" / 6" Pipe**

| Model             | Pipe Arrangement           | Minimum Equivalent Pipe Length (per pipe run) |           | Maximum Equivalent Pipe Length (per pipe run) |            |
|-------------------|----------------------------|---|-----------|---|------------|
|                   |                            | Air Intake (ft)                               | Vent (ft) | Air Intake (ft)                               | Vent (ft)  |
| OT125/OT150/OT199 | Direct Vent (2 Pipe)       | 18/50/NA                                      | 18/50/NA  | 50/120/NA                                     | 50/120/NA  |
|                   | Power Vent (1 Pipe)        | 0/0/NA  | 18/100/NA | 0/0/NA  | 100/240/NA |
| OT200/OT250/OT299 | Power Direct Vent (2 Pipe) | 15/50/NA                                      | 15/50/NA  | 50/120/NA                                     | 50/120/NA  |
|                   | Power Vent (1 Pipe)        | 0/0/NA  | 15/50/NA  | 0/0/NA  | 100/240/NA |

**Storage, Inputs, Recovery & Efficiency**

| Model      | Storage GAL (L) | Max. Rated Input BTU/HR (KW) | Min. Rated Input BTU/HR (KW) | Recovery @ 100°F Rise GAL/HR (L/HR) | 1st Hr. Del. @ 100°F Rise GAL (L) | Thermal Efficiency @ Max Input (%) | Thermal Efficiency @ Min Input (%) |
|------------|-----------------|------------------------------|------------------------------|-------------------------------------|-----------------------------------|------------------------------------|------------------------------------|
| OT125N     | 99 (375)        | 125,000 (36.6)               | 60,000 (17.6)                | 144 (545)                           | 213 (806)                         | 96                                 | 99                                 |
| OT150N     | 99 (375)        | 150,000 (44.0)               | 60,000 (17.6)                | 173 (655)                           | 242 (916)                         | 96                                 | 99                                 |
| OT199N     | 99 (375)        | 199,000 (58.3)               | 60,000 (17.6)                | 229 (867)                           | 299 (1,132)                       | 96                                 | 99                                 |
| OT200N-(A) | 100 (378)       | 199,999 (58.6)               | 76,000 (22.3)                | 228 (863)                           | 298 (1,128)                       | 95                                 | 98                                 |
| OT250N-(A) | 100 (378)       | 250,000 (73.3)               | 76,000 (22.3)                | 282 (1,067)                         | 352 (1,332)                       | 94                                 | 98                                 |
| OT299N-(A) | 100 (378)       | 299,999 (87.9)               | 76,000 (22.3)                | 334 (1,264)                         | 404 (1,529)                       | 93                                 | 98                                 |

**Dimensions and Connections**

| Model      | Dimensions in Inches (cm) |            |             |            |           |             |             |            | Cold NPT | Hot NPT | Recirc. Return NPT | Gas NPT | Air Intake PVC | Exhaust Vent PVC | Shipping Weight LBS (kg) |
|------------|---------------------------|------------|-------------|------------|-----------|-------------|-------------|------------|----------|---------|--------------------|---------|----------------|------------------|--------------------------|
|            | A                         | B          | C           | D          | E         | F           | G           | H          |          |         |                    |         |                |                  |                          |
| OT125N     | 78.50 (199)               | 28.00 (71) | 63.50 (161) | 11.25 (29) | 9.19 (23) | 62.43 (159) | 74.25 (189) | 36.43 (93) | 1.5"     | 1.5"    | 1"                 | 3/4"    | 3"             | 3"               | 670 (304)                |
| OT150N     | 78.50 (199)               | 28.00 (71) | 63.50 (161) | 11.25 (29) | 9.19 (23) | 62.43 (159) | 74.25 (189) | 36.43 (93) | 1.5"     | 1.5"    | 1"                 | 3/4"    | 3"             | 3"               | 670 (304)                |
| OT199N     | 78.50 (199)               | 28.00 (71) | 63.50 (161) | 11.25 (29) | 9.19 (23) | 62.43 (159) | 74.25 (189) | 36.43 (93) | 1.5"     | 1.5"    | 1"                 | 3/4"    | 3"             | 3"               | 670 (304)                |
| OT200N-(A) | 67.25 (171)               | 32.00 (81) | 51.53 (131) | 11.43 (29) | 9.43 (24) | 50.18 (127) | 62.75 (159) | NA         | 2"       | 2"      | NA                 | 1"      | 4"             | 3"               | 1,110 (503)              |
| OT250N-(A) | 67.25 (171)               | 32.00 (81) | 51.53 (131) | 11.43 (29) | 9.43 (24) | 50.18 (127) | 62.75 (159) | NA         | 2"       | 2"      | NA                 | 1"      | 4"             | 3"               | 1,110 (503)              |
| OT299N-(A) | 67.25 (171)               | 32.00 (81) | 51.53 (131) | 11.43 (29) | 9.43 (24) | 50.18 (127) | 62.75 (159) | NA         | 2"       | 2"      | NA                 | 1"      | 4"             | 3"               | 1,110 (503)              |

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

**NOTE: "A" denotes ASME construction.**

**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.

www.bockwaterheaters.com

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