125,000 to 250,000 BTU/hr

Now with Longer Vent Lengths

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 250,000 BTU/hr
  - Fully modulating from as low as 40,000 BTU/hr
- 100 gallon capacity
- Up to 99% thermal efficiency
- Higher turndown ratio - up to 6:1
- Automatic cathodic corrosion protection system
  - No sacrificial anode rods
- PVC/CPVC/ABS venting - 270' maximum power vent length
  - 2"/3"/4" piping
- 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:

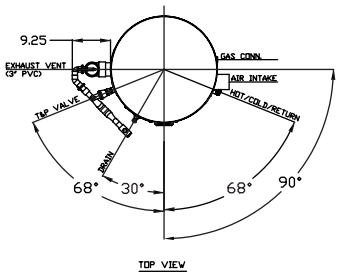
- Patented helical-fin multi-stage design
- Superior heat conduction and fuel efficiency

OPTITHERM®

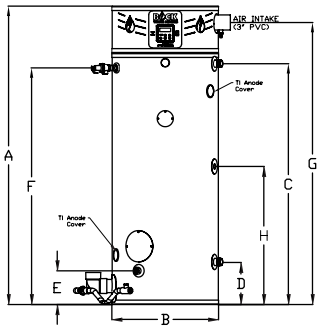
MANUFACTURED IN AMERICA
USING THE FINEST MATERIALS & COMPONENTS FROM AROUND THE WORLD

BUILT LIKE A BOCK

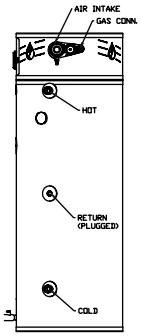
BOCK OPTITHERM®



TOP VIEW



FRONT VIEW



SIDE VIEW

Minimum and Maximum Vent Lengths – 2" / 3" / 4" 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)
OT125N2 OT150N2 OT199N2 OT250N2	Direct Vent (2 Pipe)	20/20/20	20/20/20	45*/125/135	45*/125/135
	Power Vent (1 Pipe)	0/0/0	20/20/20	0/0/0	45*/250/270

*For OT250 High Altitude models (N/LP), maximum equivalent pipe length is 30 feet for 2" diameter pipe.

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 (%)
OT125N2-(A)	100 (379)	125,000 (36.6)	40,000 (11.7)	146 (553)	216 (818)	97	99
OT150N2-(A)	100 (379)	150,000 (44.0)	40,000 (11.7)	175 (662)	245 (927)	97	99
OT199N2-(A)	100 (379)	199,000 (58.3)	40,000 (11.7)	229 (867)	299 (1,132)	96	99
OT250N2-(A)	100 (379)	250,000 (73.3)	40,000 (11.7)	285 (1,079)	355 (1,344)	95	99

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							
OT125N2-(A)	78.75 (200)	28.00 (71)	63.50 (161)	11.25 (29)	8.90 (24)	62.43 (159)	74.40 (189)	36.43 (93)	1.5"	1.5"	1"	3/4"	3"	3"	600 (273)
OT150N2-(A)	78.75 (200)	28.00 (71)	63.50 (161)	11.25 (29)	8.90 (24)	62.43 (159)	74.40 (189)	36.43 (93)	1.5"	1.5"	1"	3/4"	3"	3"	600 (273)
OT199N2-(A)	78.75 (200)	28.00 (71)	63.50 (161)	11.25 (29)	8.90 (24)	62.43 (159)	74.40 (189)	36.43 (93)	1.5"	1.5"	1"	3/4"	3"	3"	600 (273)
OT250N2-(A)	78.75 (200)	28.00 (71)	63.50 (161)	11.25 (29)	8.90 (24)	62.43 (159)	74.40 (189)	36.43 (93)	1.5"	1.5"	1"	3/4"	3"	3"	600 (273)

NOTE: OT125/150/199/250 available in ASME/Non-ASME versions and in high altitude models.
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.

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ASME
GAS-FIRED c UL us LISTED
CLASSIFIED UL EPH NSF/ANSI 5
MADE IN THE USA

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.

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