



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 500,000 BTU/hr
- Fully modulating from as low as 60,000 BTU/hr
- 99/100/125 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



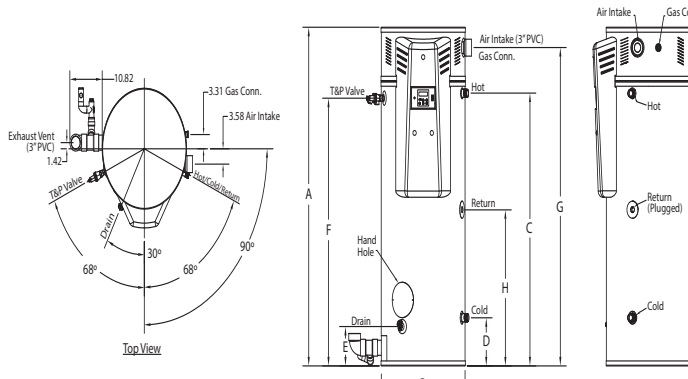
OPTiTherm®

BUILT LIKE A BOCK

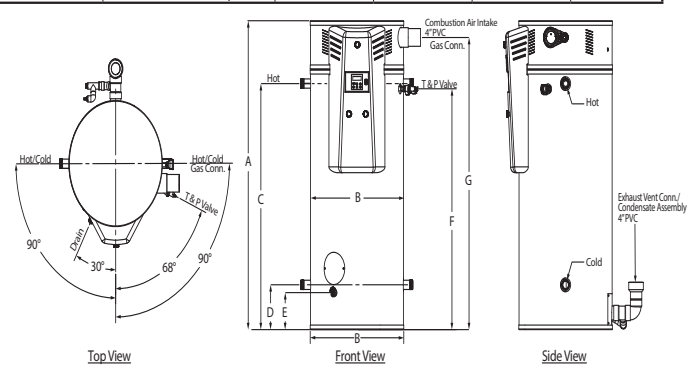


Minimum and Maximum Vent Lengths - 3" / 4" / 6" Pipe

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	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
OT300/OT400/OT500	Direct Vent (2 Pipe)	NA/20/50	NA/20/50	NA/50/120	NA/50/120
	Power Vent (1 Pipe)	NA/0/0	NA/20/50	NA/0/0	NA/100/240



OT125/OT150/OT199



OT200/OT250/OT299/OT300/OT400/OT500

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
OT300N-(A)	119/125 (473)	300,000 (87.9)	135,000 (39.6)	342 (1,295)	430 (1,627)	95	97
OT400N-(A)	119/125 (473)	399,999 (117.2)	135,000 (39.6)	451 (1,707)	539 (2,040)	94	97
OT500N-(A)	119/125 (473)	500,000 (146.5)	135,000 (39.6)	558 (2,112)	646 (2,445)	93	97

NOTE: OT 300/400/500 available with 119 gallon Non-ASME version. All OptiTherms available as high altitude models.

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)
OT300N-(A)	78.50 (199)	32.00 (81)	62.78 (159)	11.43 (29)	9.43 (24)	61.43 (156)	74.00 (188)	NA	2"	2"	NA	1.5"	4"	4"	1,200 (544)
OT400N-(A)	78.50 (199)	32.00 (81)	62.78 (159)	11.43 (29)	9.43 (24)	61.43 (156)	74.00 (188)	NA	2"	2"	NA	1.5"	4"	4"	1,200 (544)
OT500N-(A)	78.50 (199)	32.00 (81)	62.78 (159)	11.43 (29)	9.43 (24)	61.43 (156)	74.00 (188)	NA	2"	2"	NA	1.5"	4"	4"	1,200 (544)

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

110 South Dickinson Street Madison, Wisconsin 53703

Toll Free 800-794-2491 • Phone 608-257-2225 • Fax 608-257-5304



(on selected models)



NSF/ANSI 5

