

OptiTHERM for Optimal Thermal Efficiency

NEW 600-900,000 BTU Models

OPTiTHERM®

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

OptiTHERM Features

- Maximum inputs from 125,000 to 900,000 BTU/hr
 - Fully modulating from as low as 60,000 BTU/hr
- Up to 6:1 turndown ratio
- 99/100/125/130 gallon capacities
- Automatic cathodic corrosion protection system
 - No sacrificial anode rods
- PVC/CPVC/ABS venting
 - 240' maximum vent length
- Glass-fused-to-steel water tank and heat exchanger
- Ultra-Low NOx
- Natural gas or propane fuel
- Stealth Quiet operation
- Fits through a 36-inch door
- BACnet/BMS/BOCKnet remote access
- ASME/Non-ASME models

Five-Year Limited Tank/Heat Exchanger Warranty
- The Industry's Finest

Turboflue® High Performance Heat Exchanger:

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

Made in the USA

BOCK
WATER HEATERS



BUILT LIKE A BOCK

NEW

OT 600/700/800/900,000 BTU

- 130 Gallon Tank
- Extremely Efficient (99% at Low Fire/98% at High Fire)
- Touch Screen Controls
- Front Venting Intake/Exhaust for Zero Rear Clearance
- Built-in Pallet Jack Openings and Lifting Lugs
- Fits through a 36-inch Door



OT600N/OT700N/OT800N/OT900N

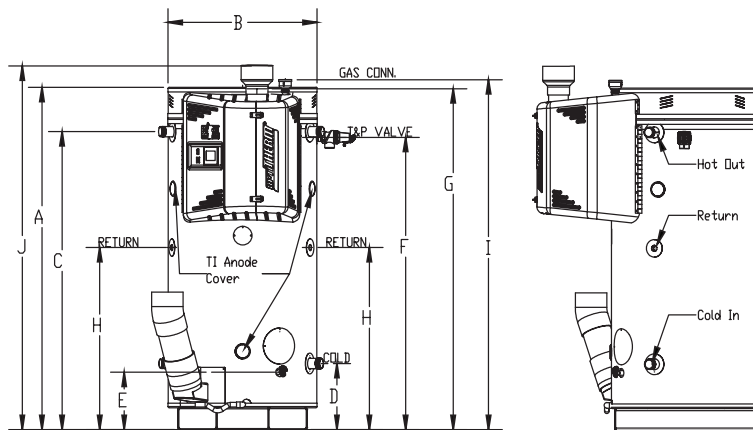
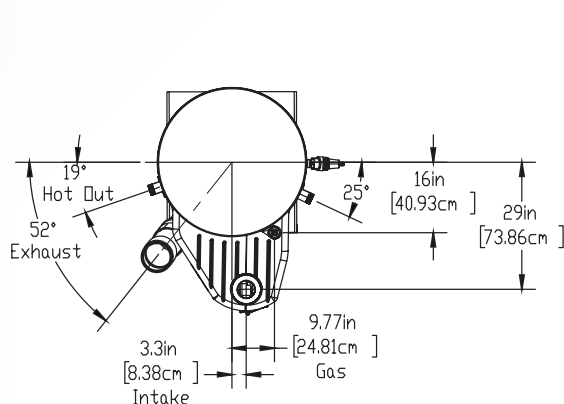
Minimum and Maximum Vent Lengths - 6" Pipe

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)
OT600N/OT700N/OT800N/OT900N	Power Direct Vent (2 Pipe)	20	20	100	100
	Power Vent (1 Pipe)	0	20	0	200

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 (%)
OT600N-A	130 (492)	600,000 (175)	140,000 (41)	706 (2,675)	797 (3,017)	98	99
OT700N-A	130 (492)	700,000 (205)	140,000 (41)	824 (3,121)	915 (3,464)	98	99
OT800N-A	130 (492)	800,000 (235)	140,000 (41)	941 (3,567)	1,032 (3,907)	98	99
OT900N-A	130 (492)	900,000 (264)	140,000 (41)	1,059 (4,013)	1,150 (4,353)	98	99

NOTE: OT 600/700/800/900 only ASME and high altitude models available.
Change the suffix from "N" to "LP" to designate liquid propane. "A" denotes ASME construction.



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	I	J							
OT600N-A	78 (199)	34 (86)	68 (173)	15 (38)	13 (33)	67 (170)	78 (198)	42 (106)	80 (203)	83 (211)	2"	2"	1"	2"	6"	6"	1,700 (773)
OT700N-A																	
OT800N-A																	
OT900N-A																	

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.

OPTiTHERM
Instantaneous

OT 300/400/500,000 BTU

- 119/125 Gallon Tanks
- Up to 6:1 Turndown Ratio
- **Improved** Efficiency (99% at Low Fire/96% at High Fire)
- **New** Front Venting Intake/Exhaust for Zero Rear Clearance
- **New** Minimum Gas Pressure
 - 3.5" WC (NAT) and 8" WC (LP)



OT300N2/OT400N2/OT500N2

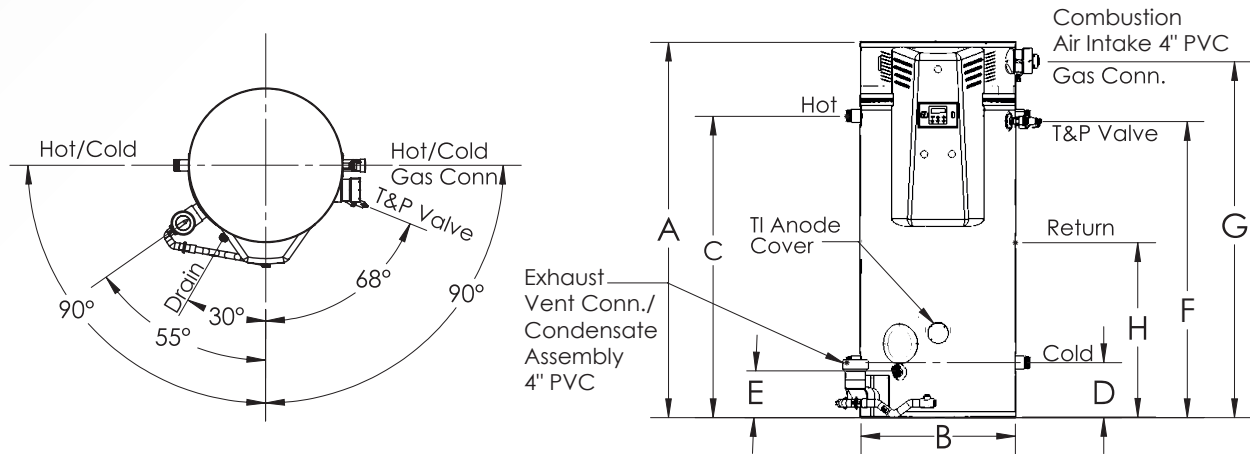
Minimum and Maximum Vent Lengths - 4" / 6" Pipe

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)
OT300N2/ OT400N2/ OT500N2	Power Direct Vent (2 Pipe)	20/50	20/50	50/120	50/120
	Power Vent (1 Pipe)	0/0	20/100	0/0	100/240

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 (%)
OT300N2-(A)	119/125 (473)	300,000 (87.9)	80,000 (23.4)	357 (1,351)	480 (1,817)	99	99
OT400N2-(A)	119/125 (473)	399,999 (117.2)	80,000 (23.4)	466 (1,764)	587 (2,222)	97	99
OT500N2-(A)	119/125 (473)	500,000 (146.5)	80,000 (23.4)	576 (2,180)	696 (2,635)	96	99

NOTE: OT 300/400/500 available with 119 gallon Non-ASME version.
Change the suffix from "N" to "LP" to designate liquid propane. "A" denotes ASME construction.



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							
OT300N2-(A)	78.8 (200)	32.2 (81.8)	62.75 (159)	11.4 (29)	9.4 (24)	61.7 (156)	74.0 (188)	36.3 (9.2)	2"	2"	1"	1.5"	4"	4"	1,100 (500)
OT400N2-(A)	78.8 (200)	32.2 (81.8)	62.75 (159)	11.4 (29)	9.4 (24)	61.7 (156)	74.0 (188)	36.3 (9.2)	2"	2"	1"	1.5"	4"	4"	1,100 (500)
OT500N2-(A)	78.8 (200)	32.2 (81.8)	62.75 (159)	11.4 (29)	9.4 (24)	61.7 (156)	74.0 (188)	36.3 (9.2)	2"	2"	1"	1.5"	4"	4"	1,100 (500)

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.

OPTiTHERM

OT 200/250/299,000 BTU

- 100 Gallon Tank
- Extremely Efficient (99% at Low Fire/96% at High Fire)
- ASME Models Available



OT200N/OT250N/OT299N

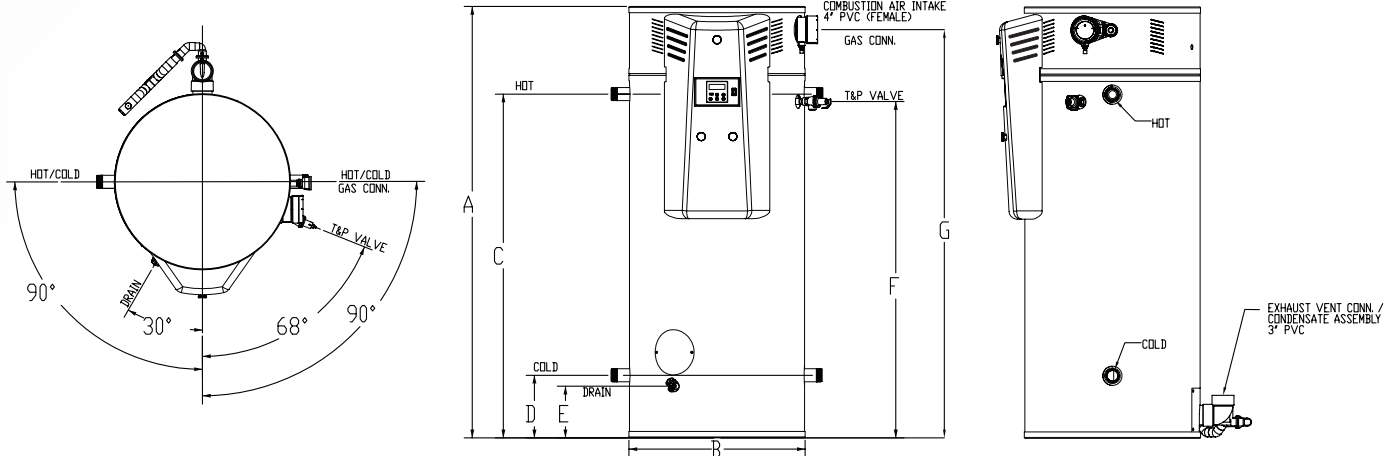
Minimum and Maximum Vent Lengths - 3" / 4" Pipe

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)
OT200N/ OT250N/ OT299N	Power Direct Vent (2 Pipe)	15/50	15/50	50/120	50/120
	Power Vent (1 Pipe)	0/0	15/50	0/0	100/240

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 (%)
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

NOTE: OT 200/250/299 available in ASME/Non-ASME versions and in high altitude models.
Change the suffix from "N" to "LP" to designate liquid propane. "A" denotes ASME construction.



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							
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)

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.

OT 125/150/199,000 BTU

- 99 Gallon Tank
- Extremely Efficient (99% at Low Fire/96% at High Fire)
- **New** Common Vent Kits Available



OT125N/OT150N/OT199N

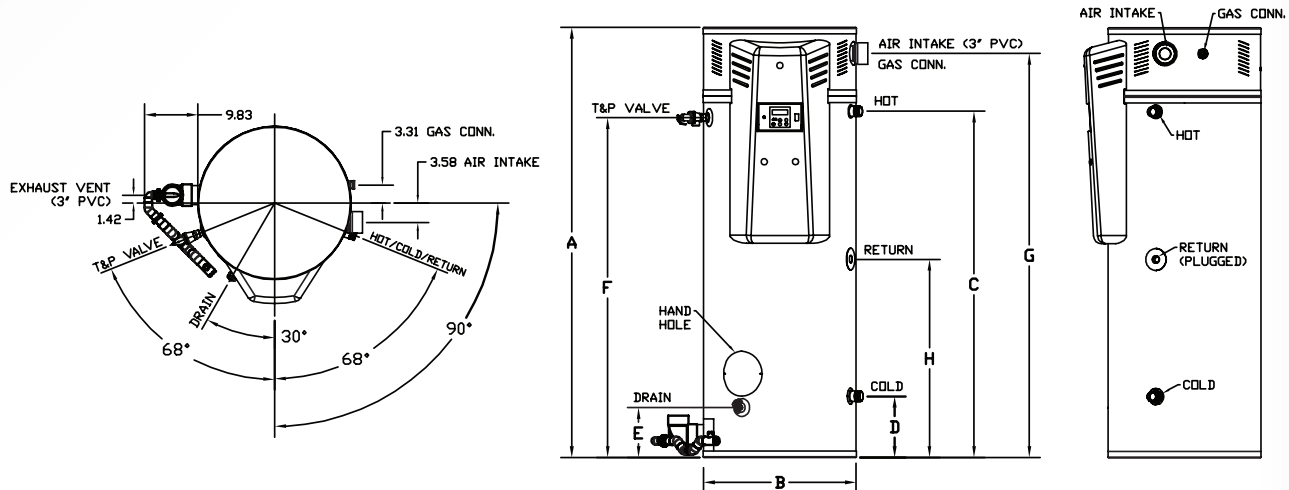
Minimum and Maximum Vent Lengths - 3" / 4" Pipe

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)
OT125/ OT150/ OT199	Direct Vent (2 Pipe)	18/50	18/50	50/120	50/120
	Power Vent (1 Pipe)	0/0	18/100	0/0	100/240

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-(A)	99 (375)	125,000 (36.6)	60,000 (17.6)	144 (545)	213 (806)	96	99
OT150N-(A)	99 (375)	150,000 (44.0)	60,000 (17.6)	173 (655)	242 (916)	96	99
OT199N-(A)	99 (375)	199,000 (58.3)	60,000 (17.6)	229 (867)	299 (1,132)	96	99

NOTE: OT 125/150/199 available in ASME/Non-ASME versions and in high altitude models. Change the suffix from "N" to "LP" to designate liquid propane. "A" denotes ASME construction.



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-(A)	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-(A)	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-(A)	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)

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.

Outdoor ODOT 125-500,000 BTU

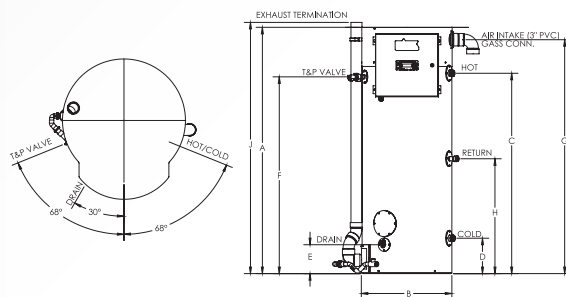
- Maximizes Space in Climate Acceptable Models
- 99/100/125 Gallon Tanks
- Ideal for Dry, Warm Climates
- UL Listed to ANSI Specifications for Outdoor Use



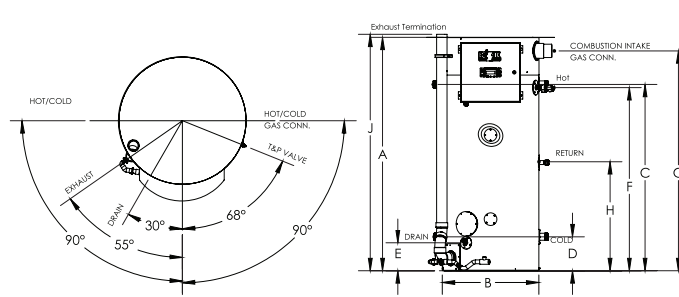
Storage, Inputs, Recovery & Efficiency

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 (%)
ODOT125N	99 (375)	125,000 (36.6)	60,000 (17.6)	144 (545)	213 (806)	96	99
ODOT150N	99 (375)	150,000 (44.0)	60,000 (17.6)	173 (655)	242 (916)	96	99
ODOT199N	99 (375)	199,000 (58.3)	60,000 (17.6)	229 (867)	299 (1,132)	96	99
ODOT200N-(A)	100 (378)	199,999 (58.6)	76,000 (22.3)	228 (863)	298 (1,128)	95	98
ODOT250N-(A)	100 (378)	250,000 (73.3)	76,000 (22.3)	282 (1,067)	352 (1,332)	94	98
ODOT299N-(A)	100 (378)	299,999 (87.9)	76,000 (22.3)	334 (1,264)	404 (1,529)	93	98
ODOT300N2-(A)	125 (473)	300,000 (87.9)	80,000 (23.4)	357 (1,351)	480 (1,817)	99	99
ODOT400N2-(A)	125 (473)	399,999 (117.2)	80,000 (23.4)	466 (1,764)	587 (2,222)	97	99
ODOT500N2-(A)	125 (473)	500,000 (146.5)	80,000 (23.4)	576 (2,180)	696 (2,635)	96	99

NOTE: ODOT 300/400/500 available with 119 gallon Non-ASME version. All OptiTherm's available as high altitude models.



ODOT125/ODOT150/ODOT199



ODOT200/ODOT250/ODOT299/ODOT300/ODOT400/ODOT500

Note: ODOT200/250/299 are Rear Venting

ODOT 300/400/500 are Front Venting as Shown

Dimensions and Connections

Model	Dimensions in Inches (cm)									Cold NPT	Hot NPT	Recirc. Return NPT	Gas NPT	Shipping Weight LBS (kg)
	A	B	C	D	E	F	G	H	J					
ODOT125N	78.50 (199)	28.00 (71)	63.50 (161)	11.25 (29)	9.19 (23)	62.43 (159)	74.25 (189)	36.43 (93)	80.75 (205)	1.5"	1.5"	1"	3/4"	755 (343)
ODOT150N	78.50 (199)	28.00 (71)	63.50 (161)	11.25 (29)	9.19 (23)	62.43 (159)	74.25 (189)	36.43 (93)	80.75 (205)	1.5"	1.5"	1"	3/4"	755 (343)
ODOT199N	78.50 (199)	28.00 (71)	63.50 (161)	11.25 (29)	9.19 (23)	62.43 (159)	74.25 (189)	36.43 (93)	80.75 (205)	1.5"	1.5"	1"	3/4"	755 (343)
ODOT200N-(A)	67.25 (171)	32.00 (81)	51.53 (131)	11.43 (29)	9.43 (24)	50.18 (127)	62.75 (159)	NA	69.50 (177)	2"	2"	NA	1"	1,195 (542)
ODOT250N-(A)	67.25 (171)	32.00 (81)	51.53 (131)	11.43 (29)	9.43 (24)	50.18 (127)	62.75 (159)	NA	69.50 (177)	2"	2"	NA	1"	1,195 (542)
ODOT299N-(A)	67.25 (171)	32.00 (81)	51.53 (131)	11.43 (29)	9.43 (24)	50.18 (127)	62.75 (159)	NA	69.50 (177)	2"	2"	NA	1"	1,195 (542)
ODOT300N2-(A)	78.80 (200)	32.50 (82)	62.75 (159)	11.40 (29)	9.40 (24)	61.70 (156)	74.00 (188)	36.30 (92)	79.66 (202)	2"	2"	1"	1.5"	1,185 (539)
ODOT400N2-(A)	78.80 (200)	32.50 (82)	62.75 (159)	11.40 (29)	9.40 (24)	61.70 (156)	74.00 (188)	36.30 (92)	79.66 (202)	2"	2"	1"	1.5"	1,185 (539)
ODOT500N2-(A)	78.80 (200)	32.50 (82)	62.75 (159)	11.40 (29)	9.40 (24)	61.70 (156)	74.00 (188)	36.30 (92)	79.66 (202)	2"	2"	1"	1.5"	1,185 (539)

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.

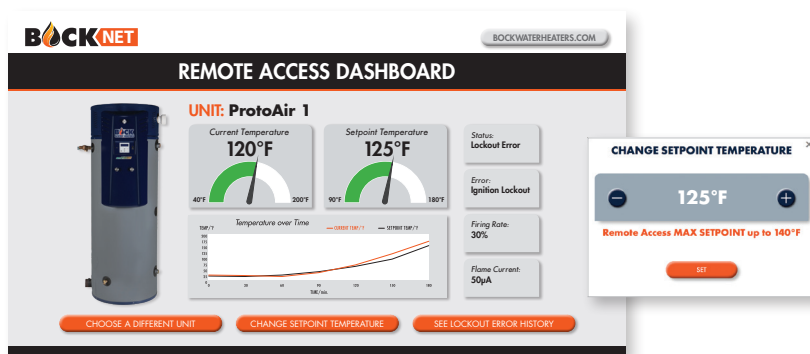
OPTITHERM
OUTDOOR

ACCESSORIES

BOCK[®]NET Remote Access

- Available on All BOCK OptiTHERM Models
- Allows Remote Access of Tank Temp/Setpoint Temp/Heater Status
- BACnet Compatible
- Manage from Mobile Phone or PC

From Your PC



From Your Phone

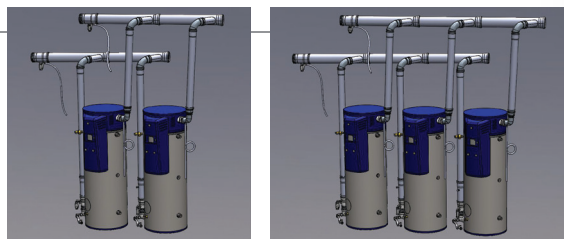


Monitor Current Temp/
Setpoint and Heater
Status

Safely change Setpoint
from App or PC

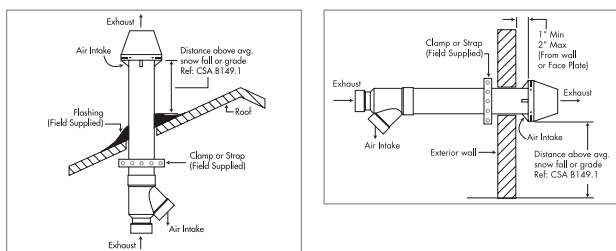
Common Venting Kits

- Available on OptiTHERM 125/150/199,000 BTU Models
- Kits Available for Two or Three OptiTHERM
- 150 Foot Total Vent Length (75' each intake/exhaust)
- Other OptiTHERM Sizes *Coming Soon*



Concentric Vent Kits

- Allows for Both Exhaust and Intake Pipes to Operate through One Hole



Seismic Standoff Kit

- Eliminates the Need to Build Framing to Adhere to Wall



Condensate Neutralizer

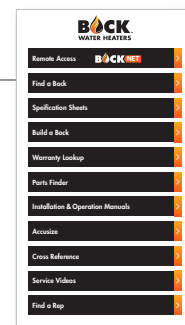
- Neutralizes Acidic Condensate Discharge



BOCK Phone App

- Quick and Easy Access from Your Phone
- Pricing/Parts/Specs/Warranty/Etc.

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Main Menu

BUILT LIKE A BOCK

**Operating Today in Major Hotels, Restaurants, Universities,
Corporate Headquarters and many other Commercial Locations**



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