

CYCLONE® Xi

MODELS BTX AND BTXL 100

96% THERMAL EFFICIENT POWER DIRECT VENT MODELS.

The Cyclone® Xi is a light-duty, power direct vent, fully condensing commercial gas water heater with an internal helical heat exchanger. This helical heat exchanger helps Cyclone® Xi achieve 96% thermal efficiency and deliver outstanding hot water output.

ADVANCED ELECTRONIC CONTROL

- Large LCD display.
- Temperature control up to 181°F.
- Advanced diagnostics.
- iCOMM™ Compatible and can be monitored from remote locations. Call 1.888.WATER02 for more information.

ENERGY STAR® QUALIFIED

HELICAL INTERNAL HEAT EXCHANGER

- Spiral heat exchanger keeps hot combustion gases in the tank longer to lengthen the heat transfer cycle.
- Positioned in the center of the tank for more even heat distribution.
- Operates at 96% thermal efficiency, which saves money on operating costs compared to a standard 80% efficient gas water heater.

POWER DIRECT VENT DESIGN

- Combined vertical and horizontal runs terminating through the roof or an outside wall. Vents using PVC, CPVC or polypropylene piping. Canadian installations require ULC S636 approved pipe for venting.
- 2" pipe, vents up to 45 equivalent feet.
- 3" pipe, vents up to 125 equivalent feet.

CONDENSING DESIGN

- 96% efficient condensing design.
- Equipped with condensate drain tee.

SIDE-MOUNTED HOT AND COLD RECIRCULATING TAPS

- Allows Cyclone® Xi to be installed as part of combination space heating/water heating applications.

COREGARD™ ANODE ROD

- Our anode rods have a stainless steel core that extends the life of the anode rod allowing superior tank protection far longer than standard anode rods.

BLUE DIAMOND® GLASS COATING

- Provides superior corrosion resistance compared to industry-standard glasslining.

TOP FIRED ULTRA-LOW NOx GAS BURNER

- Enhanced Ultra-low NOx burner complies with SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements for NOx emissions of less than 14 ng/J or 20 ppm.

AVAILABLE IN NATURAL GAS OR PROPANE

MAXIMUM HYDROSTATIC WORKING PRESSURE: 150 PSI

STANDARDS AND CERTIFICATIONS

- Design-certified by CSA International according to ANSI Z21.10.3 - CSA 4.3 Standards.
- These models meet the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition ASHRAE/IES 90.1.
- CSA certified and ASME rated T&P relief valve.
- Approved for Canada.

3-YEAR LIMITED TANK AND 1 YEAR LIMITED PARTS WARRANTY

- For complete warranty information, consult written warranty or go to hotwater.com.

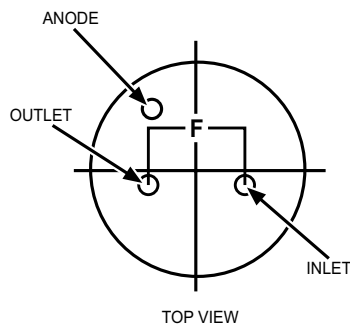
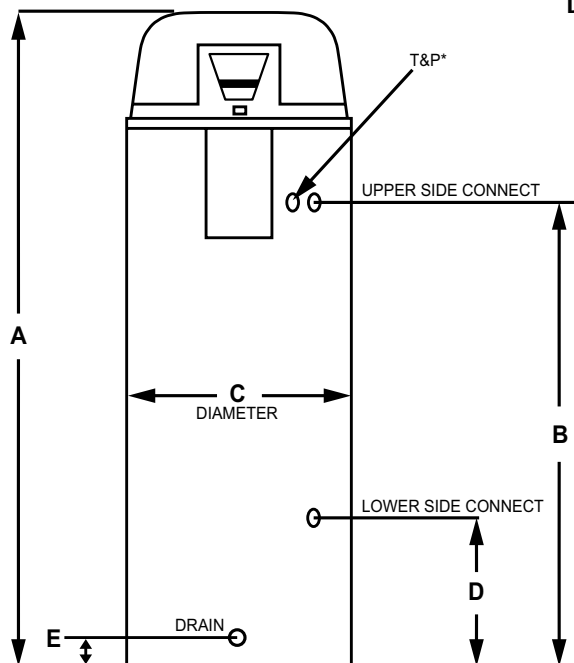


BTXL 100

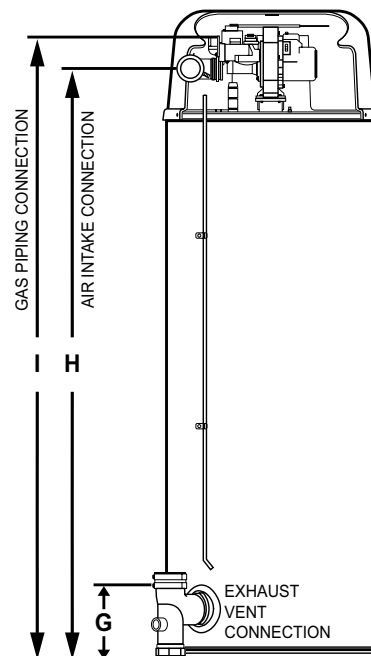
BTX 100



DIMENSIONS FOR BTX-100



*INSTALL IN ACCORDANCE WITH LOCAL CODES.



ROUGH-IN DIMENSIONS

Model Number	Approximate Capacity		Units	A	B	C	D	E	F	G	H	I
	U.S. Gals.	Liters										
BTX-100	50	189	Inches	66.75	49.25	22	15.75	3	8	8	62	65
			cm	169.5	125.09	55.88	40	7.62	20.32	20.32	157.48	165.1

Specify when ordering propane (LP) gas.

Standard model certified from sea level to 10,100 ft. elevation.

Optional Concentric Vent Kit (9006328005) and Condensate Neutralization Kit (9007959005).

Top Inlet and Outlet: 3/4" NPT

Side Inlet and Outlet: 3/4" NPT

Gas Inlet: 1/2" NPT

Condensate drain outlet: 1/2" NPT

Electrical Characteristics: 120V 60Hz <5 amps

The manifold pressure is factory set and is not adjustable. A negative pressure will be seen with just the blower running without the Gas Control Valve open.

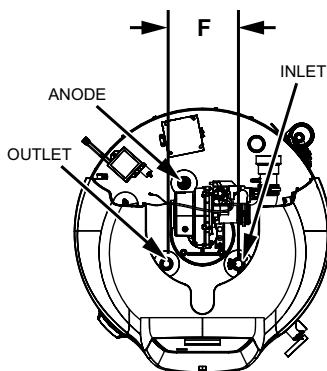
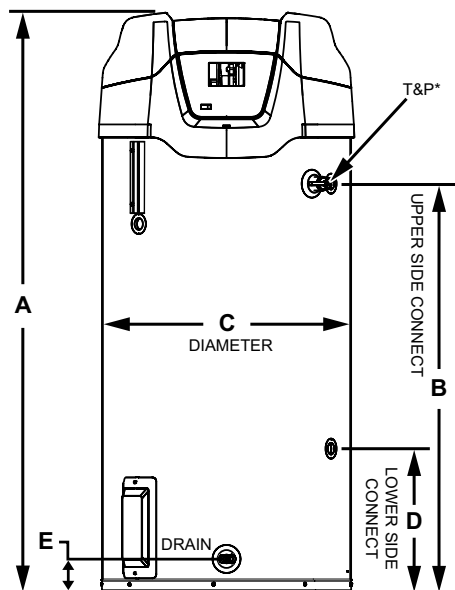
All models - Maximum Supply Pressure: 14 inches W.C. (3.48kPa)

Minimum Supply Pressure for Natural Gas: 3.50" (.87kPa)

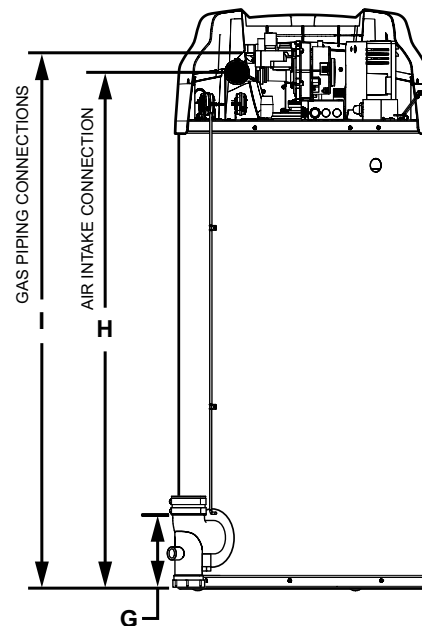
Minimum Supply Pressure for Propane Gas: 8.00" (1.99kPa)

Minimum pressure must be maintained under both load and no load (dynamic and static) conditions.

DIMENSIONS FOR BTXL-100



*INSTALL IN ACCORDANCE WITH LOCAL CODES.



ROUGH-IN DIMENSIONS

Model Number	Approximate Capacity		Units	A	B	C	D	E	F	G	H	I
	U.S. Gals.	Liters										
BTXL-100	75	284	Inches	65.25	45.64	27.75	16	3.71	8	7.93	57.36	58.98
			cm	165.7	115.9	70.5	40.6	9.4	20.32	20.1	145.7	149.8

Specify when ordering propane (LP) gas.

Standard model certified from sea level to 10,100 ft. elevation.

Optional Concentric Vent Kit (9006328005) and Condensate Neutralization Kit (9007959005).

Top Inlet and Outlet: 1" NPT

Side Inlet and Outlet: 1" NPT

Gas Inlet: 1/2" NPT

Condensate drain outlet: 1/2" NPT

Electrical Characteristics: 120V 60Hz <5 amps

The manifold pressure is factory set and is not adjustable. A negative pressure will be seen with just the blower running without the Gas Control Valve open.

All models - Maximum Supply Pressure: 14 inches W.C. (3.48kPa)

Minimum Supply Pressure for Natural Gas: 3.50" (.87kPa)

Minimum Supply Pressure for Propane Gas: 8.00" (1.99kPa)

Minimum pressure must be maintained under both load and no load (dynamic and static) conditions.



Commercial Gas Water Heater

RECOVERY CAPACITIES - BTX AND BTXL

Input		Recovery Capacities													
Rating (Btu/hr)	Rating (Kw)	Temp Rise	F	30	40	50	60	70	80	90	100	110	120	130	140
			C	17	22	28	33	39	44	50	56	61	67	72	78
		GPH		387	291	233	194	166	145	129	115	106	97	90	83
		LPH		1465	1102	882	734	628	549	488	439	401	367	341	314
100,000	29.3														

MAXIMUM VENTING DISTANCE - BTX AND BTXL

Number of 90° Elbows	2" Maximum Pipe-ft. (m)	3" Maximum Pipe-ft. (m)
1	40 (12.19)	120 (36.57)
2	35 (10.66)	115 (35.05)
3	30 (9.14)	110 (33.52)
4	25 (7.62)	105 (32)
5	20 (6.09)	100 (30.48)
6	15 (4.57)	95 (28.95)

Note: See the Instruction Manual for the most current and detailed venting information.

SUGGESTED SPECIFICATION

(Natural or Propane) gas water heater(s) shall be A. O. Smith Cyclone Xi model with 96% thermal efficiency with storage capacity _____; an input rating of 100,000 BTUs per hour, a recovery rating of 116 gallons per hour at 100°F rise and a maximum hydrostatic working pressure of 150 psi. Water heater(s) shall be of power direct vent design, using 2" or 3" PVC, CPVC, or polypropylene pipe for horizontal and/or vertical vent runs. Water heater(s) shall have: 1: Steel tank construction with seamless glass lining and a spiral-shaped heat exchanger placed entirely inside the tank, which shall be glasslined on the flue gas side to protect against acidic condensate. 2: Advanced electronic control w/ LCD display and actual diagnostic. 3: A 3-year limited warranty against tank leaks. Water heater(s) shall meet the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1 and be design-certified by UL (Underwriters Laboratories) according to ANSI Z21.10.3-CSA 4.3 standards governing storage tank water heaters. Water heater should incorporate the iCOMM™ system connection for remote monitoring, leak detection and fault alert.

For Technical Information, call 800-527-1953. A. O. Smith Corporation reserves the right to make product changes or improvements without prior notice.