

CONSERVATIONIST® ULTRA-LOW NOX

FEATURES

The BLN-80 commercial gas water heater meets California Air Quality Management District Requirements for NOx emissions of 14 ng/j or 20 ppm. This model is equipped with a pre-wired, factory-mounted blower. This blower provides more efficient control of heat and helps ensure an adequate supply of make-up air. Prior to ignition, the control proves a working draft.

FACTORY-INSTALLED BLOWER

- Control proves draft prior to ignition
- No draft hood or barometric damper required
- Blower is factory-mounted with a 6-foot power cord: requires 120V, 3 amp or less electrical system connection

INTELLI-VENT™ GAS CONTROL

- Equipped with nearly indestructible silicon nitride hot surface ignitor
- Advanced electronics for precise control of water temperature
- Easy-to-understand system diagnostics

RATED AS CATEGORY I APPLIANCE

- Category I appliance: uses standard metal, single-wall or "B" type vent
- May be common vented with other Category I appliances
- Vent connects directly to blower outlet

FULLY AUTOMATIC CONTROL SYSTEM

- Auto-reset gas shutoff device prevents excessive water temperature
- Adjustable thermostat with 120°F - 180°F range
- Gas pressure regulator

GLASSLINED TANK

- Exclusive CoreGard™ anode rods with stainless steel core provides additional corrosion protection

HANDHOLE CLEANOUT

- Allows easy access to tank interior for cleaning

CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

MAXIMUM HYDROSTATIC WORKING PRESSURE: 150 PSI

80% THERMAL EFFICIENCY

CODES AND STANDARDS

- Design-certified according to ANSI Z21.10.3-CSA 4.3 standards governing storage-type water heaters
- California Energy Commission
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1
- Design-certified by Underwriters Laboratories
- Certified for use on combustible flooring
- Complies with SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements of 14 ng/j or 20 ppm

THREE YEAR LIMITED TANK AND ONE YEAR LIMITED PARTS WARRANTY

- For complete warranty information, consult written warranty or contact A. O. Smith.

OPTIONS

OPTIONAL LEG KIT TO MEET NSF STANDARD 5

- (Part #9006645005)

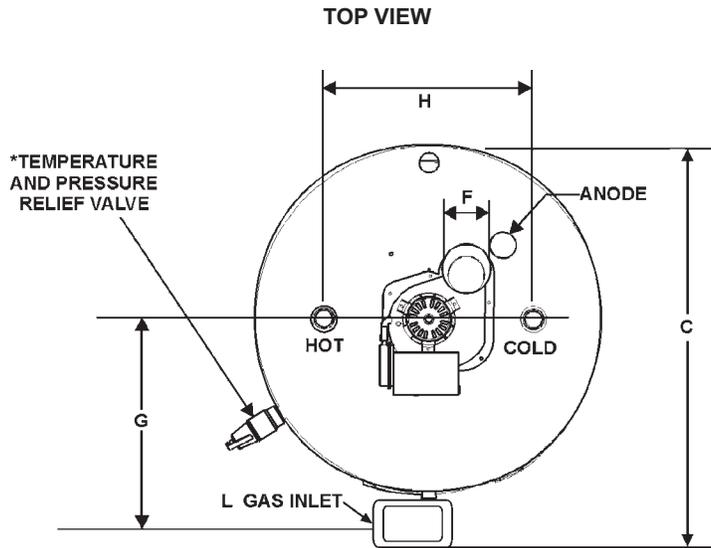
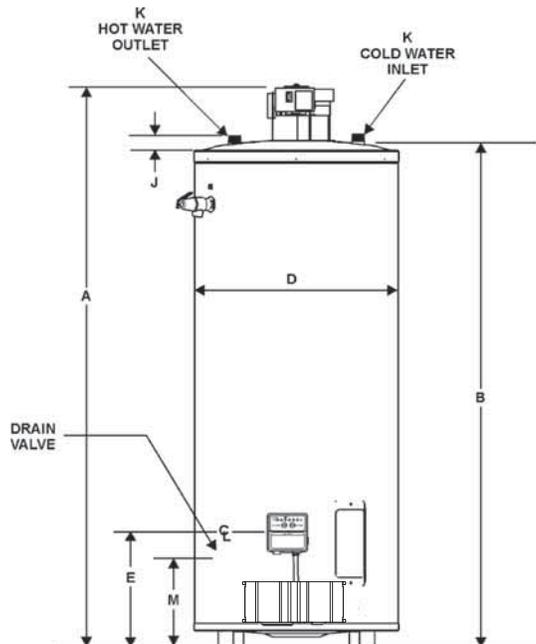
Intelli-Vent™ is a registered trademark of Emerson Electric Company

BLN-80



Low Lead Content





*INSTALL IN ACCORDANCE WITH LOCAL CODES

Dimensions in Inches/centimeters

Model	Units	A	B	C	D	E	F	G	H	J	K	L	M
BLN-80	INCHES	65-7/8	57-7/8	30-15/16	25-1/4	15-1/2	4	15-3/8	16	2-1/4	1	1/2	12-1/4
	CM	167.22	145.23	78.58	64.14	38.6	10.2	40.0	40.6	5.71	NPT	NPT	31.1

Recovery Capacities (based on 80% thermal efficiency)

Model	Approximate Capacity		Input Rating		Type of Gas	Temperature Rise											
	Gallons	Litres	Btu/Hr.	kW/Hr.		30°F/17°C	40°F/23°C	50°F/28°C	60°F/33°C	70°F/39°C	80°F/44°C	90°F/50°C	100°F/56°C	110°F/61°C	120°F/67°C	130°F/72°C	140°F/78°C
BLN-80	74	280	75,100	22	GPH	243	182	145	122	104	91	81	73	66	60	56	52
						LPH	920	688	549	460	392	344	306	277	251	228	213

Gas and Electrical Characteristics

Model	Manifold Pressure			Electrical Characteristics	
	Type of Gas	Inches W.C.	kPa	Volts/Hz	Amperes
BLN-80	Natural	4.0	1.12	120/60	<5

SUGGESTED SPECIFICATION

Natural gas water heater(s) shall be A. O. Smith BLN _____ or equal, with a storage capacity of _____ gallons, an input rating of _____ BTUs per hour, a recovery rating of _____ GPH at 100°F rise and a maximum hydrostatic working pressure of _____ psi. Water heaters(s) shall be supplied with a factory-installed blower and 6-foot power cord; control will prove draft prior to ignition. Glasslined water heater(s) shall also be protected against electrolytic corrosion by a factory-installed A. O. Smith CoreGard™ anode rod. In addition, water heater(s) shall be equipped with: 1) An Intelli-Vent™ gas control system with silicon nitride hot surface ignitor, advanced electronics for precise control of water temperature, and easy-to-understand system diagnostics. 2) An auto-reset gas shutoff device, a gas pressure regulator, CSA Certified and ASME rated T&P relief valve. 3) Certification by Underwriters Laboratories under Volume III tests for commercial water heaters for delivery of 180°F water. 4) Design certification according to ANSI Z21.10.3 - CSA 4.3 standards governing storage-type water heaters. 5) Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1 and meets Ultra-low NOx emissions of 14 ng/j or 20 ppm. 6) Have a 3-year limited tank and 1-year limited parts warranty against corrosion as outlined in the written warranty.