

CYCLONE® HE POWER VENT

The Cyclone® HE is a light-duty, power vent, fully condensing commercial gas water heater with an internal helical heat exchanger, similar to the design of A. O. Smith's industry-leading Cyclone® models. This helical heat exchanger helps Cyclone® HE achieve 90% thermal efficiency and deliver outstanding hot water output.

INTELLI-VENT™* GAS CONTROL WITH SILICON NITRIDE HOT SURFACE IGNITOR

- Premium-grade hot surface ignitor eliminates standing pilot.
- Electronic circuitry provides superior system diagnostics capabilities plus extremely precise temperature control.
- Temperature control up to 181°F.

POWER VENT DESIGN FOR INSTALLATION VERSATILITY

- Modular blower, with 6-foot cord and standard 3-prong connector.
- Combined vertical and horizontal runs terminating through an outside wall, using Schedule 40 PVC, CPVC or polypropylene pipe: Canadian installations require ULC S636 approved pipe for venting.
 - 2" pipe allows vent runs up to 25 equivalent feet
 - 3" pipe allows vent runs up to 65 equivalent feet
 - 4" pipe allows vent runs up to 128 equivalent feet

HIGH OUTPUT WITH SMALL FOOTPRINT

- 22" diameter, combined with 90% efficiency, 50-gallon tank and 76,000 BTU input means Cyclone® HE can be installed in less space than a larger 75-gallon unit, with equal or better performance.
- Total height is 70-5/8" to top of blower outlet.

GREEN CHOICE® GAS BURNER

- Patented eco-friendly burner design reduces NOx emissions by up to 33% and complies with Low-NOx emission requirements of less than 40 ng/J.

SIDE-MOUNTED TAPS FOR RECIRCULATING SYSTEMS

- Hot and cold side taps allow Cyclone® Power Vent to be used for combination systems for water heating plus space heating, radiant floor heating or other applications requiring a recirculating hot water loop.

BLUE DIAMOND® GLASS COATING WITH TWO HEAVY DUTY ANODE RODS

- Provides superior corrosion resistance compared to industry standard glass lining.

DYNACLEAN™ DIFFUSER DIP TUBE

MAXIMUM HYDROSTATIC WORKING PRESSURE: 150 PSI

STANDARDS AND CERTIFICATIONS

- Meets UBC, CEC and ICC National Codes.
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1.
- Design certified by Underwriters Laboratories Inc. under American National Standard/CSA Standard for Gas Water Heaters ANSI Z21.10.3 - CSA 4.3 (current edition).
- CSA certified and ASME rated T&P relief valve.
- Not recommended for sanitation rinse.

3-YEAR LIMITED TANK AND 1-YEAR LIMITED PARTS WARRANTY

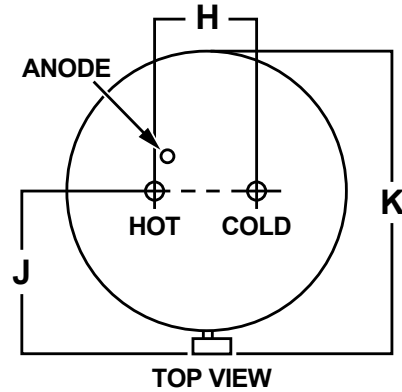
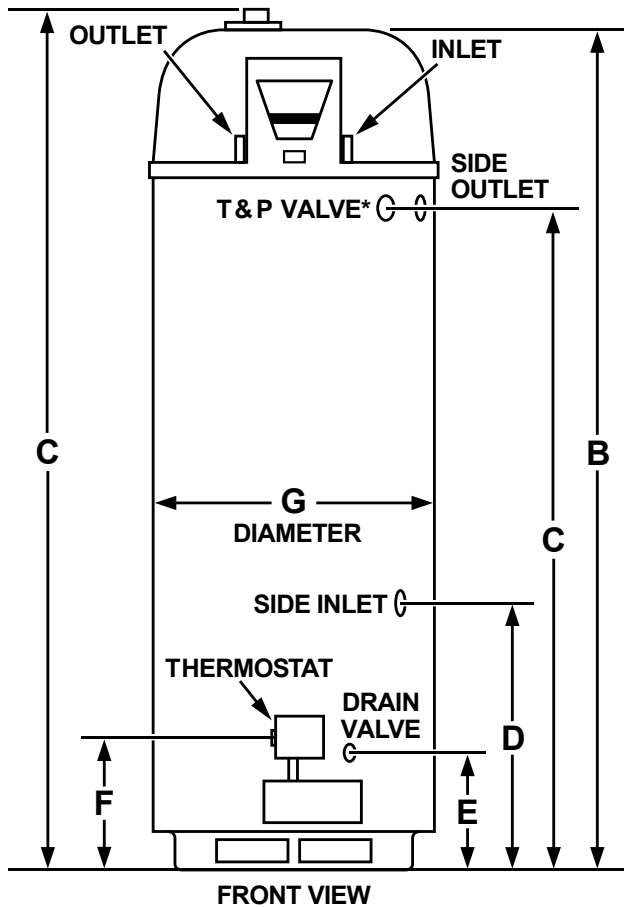
- For complete warranty information, consult written warranty or go to hotwater.com.

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



SERIES 110





* INSTALL IN ACCORDANCE WITH LOCAL CODES

Model Number	Gallon/Litre Capacity	Recovery @ 90°F Rise Gallon Per Hour	BTU Input Per Hour	Dimensions	A	B	C	D	E	F	G	H	J	K	Approx. Shipping Weight (lbs/kg)
BTX-80	50/189	92	76,000	Inches	71-1/8	68-5/8	52	21	9-1/8	12	22	8	15-3/4	27	210/95
				cm	180	174	132	53	23	30	56	20	40	68	

Available in natural gas only.

Top inlet and outlet connections: 3/4" male NPT.

Circulation loop connections: 3/4" female NPT.

Standard model certified for sea level to 5,300 ft. elevation. Order SMR K30 for elevations to 10,100 ft.

Optional Condensate Neutralizer Kit available (Part Number 9007959005).

Electrical characteristics: 120 volt, 60 Hz <5 amps

Model Number	Temperature Rise	Recovery Capacities												
		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
BTX-80	GPH		275	206	165	138	118	104	92	83	75	69	64	59
	LPH		1041	780	625	522	447	394	348	314	284	261	242	223

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