

## 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 94% 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 94% 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 71 1/8" 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

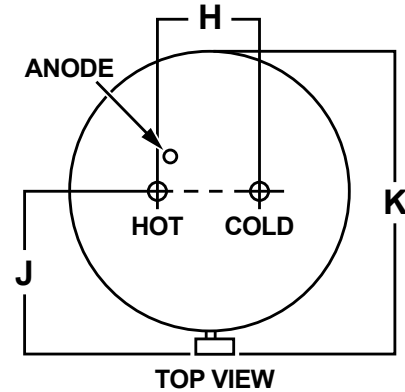
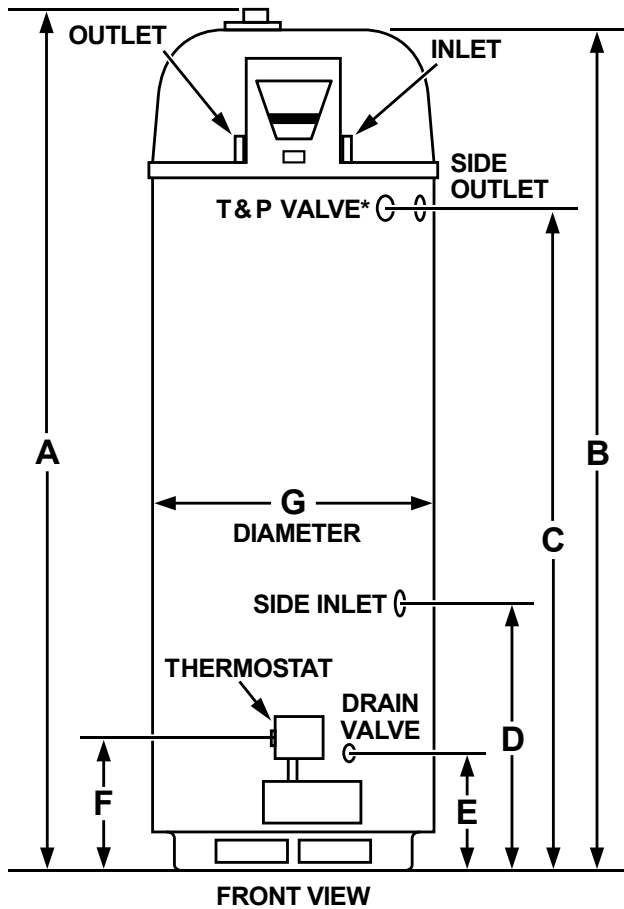
- For complete warranty information, consult written warranty or go to [hotwater.com](http://hotwater.com).

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



SERIES 120





\*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)
					Inches	68 3/4	51 7/8	20 7/8	9-1/8	12	22	8	15-3/4	27	
BTX-80	50/189	95	76,000		71-1/8	68 3/4	51 7/8	20 7/8	9-1/8	12	22	8	15-3/4	27	225/102
					cm	181	175	132	53	23	30	56	20	40	

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 100112380).  
 Electrical characteristics: 120 volt, 60 Hz <5 amps

Model Number	Recovery Capacities													
	Temperature 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
BTX-80	GPH		286	215	172	143	123	107	95	86	78	72	66	61
	LPH		1084	813	651	542	465	407	361	325	296	271	250	232

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