

TX1 COMMERCIAL INTEGRATED TANKLESS ON TANK

The TX1 condensing water heater combines tankless with a tank to deliver energy saving performance.

INTEGRATED CT-199 CONDENSING TANKLESS

- Delivers 96% thermal efficiency
- Modulating burner
- Heat exchanger constructed of commercial grade copper
- Secondary heat exchanger constructed of 316 grade stainless steel
- 185°F Max Temperature
- Available in natural gas or propane

119 GALLON STORAGE TANK

- Glass lined tank
- Multiple anodes protect the tank
- Front water inlet and top water outlet
- High density foam reduces standby heat losses
- Heavy gauge steel jacket
- 160 psi working pressure

COMMERCIAL-GRADE COMPONENTS

- 4.1 GPM pump
- Advanced electronic control
- Factory installed T&P and pressure relief valves

CODES AND STANDARDS

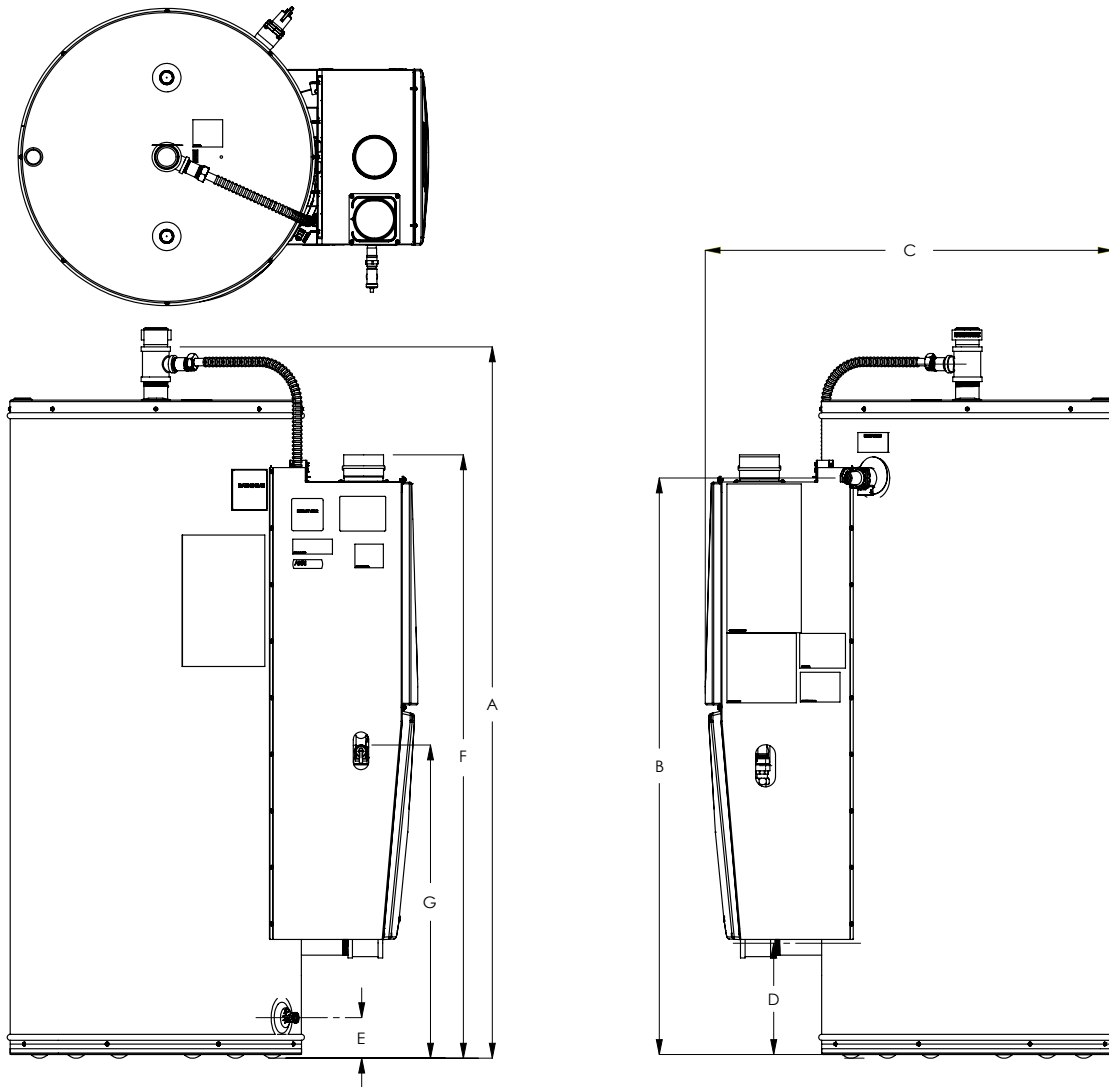
- CSA certified and ASME rated T&P relief valve
- Maximum hydrostatic working pressure: 160 psi
- All models are design certified by Underwriters Laboratories (UL), Inc., to ANSI Z21.10.3 - CSA 4.3 Standards
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition ASHRAE/IES 90.1
- Complies with SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements for ultra low-NOx emissions
- Complies with lead free standards

6 YEAR LIMITED HEAT EXCHANGER AND TANK, 5 YEAR LIMITED PARTS WARRANTY

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

ATX-199 MODEL





ATX-199

DIMENSIONS

| Dimensions | | | | | | | Approx. Ship Weight |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|
| A | B | C | D | E | F | G | |
| Inches (cm) | Inches (cm) | Inches (cm) | Inches (cm) | Inches (cm) | Inches (cm) | Inches (cm) | LBS (KG) |
| 72 (183) | 58.7 (149) | 41 (104) | 11.8 (30) | 4.3 (11) | 61.38 | 30 (76) | 520 (236) |

Electrical characteristics-120V-60Hz A.C., 5.0 A

Propane gas models available

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.



COMMERCIAL GAS WATER HEATERS

RECOVERY CAPACITIES

| | | | | U.S. Gallons/hr & liters/hr at temperature rise indicated | | | | | | | | | | | | |
|-------------|--------|-------|---------------------|---|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| Type of Gas | Input | | Thermal Efficiency% | °F | 30°F | 40°F | 50°F | 60°F | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F | 130°F | 140°F |
| | Btu/hr | kW | | °C | 17°C | 22°C | 28°C | 33°C | 39°C | 44°C | 50°C | 56°C | 61°C | 67°C | 72°C | 78°C |
| Natural | 199000 | 58.32 | 96 | GPH | 772 | 579 | 463 | 386 | 331 | 289 | 257 | 232 | 211 | 193 | 178 | 165 |
| Propane | | | | LPH | 2922 | 2192 | 1753 | 1461 | 1253 | 1094 | 973 | 878 | 799 | 731 | 674 | 625 |

STORAGE CAPACITY

| Model Number | U.S. Gallons | Liters |
|--------------|--------------|--------|
| ATX-199-N | 119 | 450.96 |
| ATX-199-P | 119 | 450.96 |

GAS PRESSURE REQUIREMENTS

| Manifold Pressure | | Minimum Supply Pressure | | Maximum Supply Pressure | |
|-----------------------|----------------------|-------------------------|-----------------------|-------------------------|----------------------|
| NATURAL GAS | PROPANE GAS | NATURAL GAS | PROPANE GAS | NATURAL GAS | PROPANE GAS |
| 2.95" W.C. (0.73 kPa) | 3.3" W.C. (0.82 kPa) | 4.0" W. C. (1.00 kPa) | 8.0" W. C. (1.99 kPa) | 10.5" W. C. (2.61 kPa) | 14" W. C. (3.49 kPa) |



COMMERCIAL GAS WATER HEATERS

SUGGESTED SPECIFICATION

(Natural or Propane) gas water heater(s) shall be A. O. Smith TX1 model # _____ or equal, minimum 96% thermal efficiency, a storage capacity of 119 gallons, an input rating of 199,000 BTUs per hour, a recovery rating of 232 gallons per hour (gph) at 100°F rise and a maximum hydrostatic working pressure of 160 psi. Water heater(s) shall: 1. Modulating gas burner that automatically adjusts the input based on demand. 2. Dual anodes. 3. Have seamless glass-lined steel tank construction, with glass lining applied to all water-side surfaces after the tank has been assembled and welded; 4. Meets the thermal efficiency and/or standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IES 90.1; 5. Have foam insulation and a CSA Certified and ASME rated T&P relief valve; 6. Have a condensing tankless with modulating burner as the heat source; 7. Be approved for 0" clearance to combustibles.

The control shall be an integrated solid-state temperature and ignition control device with integral diagnostics, graphic user interface, fault history display, and shall have digital temperature readout. 1. All models are design certified by Underwriters Laboratories (UL), Inc., according to ANSI Z21.10.3 - CSA 4.3 standards governing storage type water heaters; 2. Meet the thermal efficiency and standby loss requirements of the U. S. Department of Energy and current edition ASHRAE/IES 90.1; 3. Complies with SCAQMD Rule 1146.2 and other air quality management districts with similar requirements for low NOx emissions.

For Standard Power Venting: Water heater(s) shall be suitable for power venting using a (3" or 4") _____ diameter PVC pipe for a total distance of (70 ft or 100 ft.) _____ equivalent feet of vent piping. For Power Direct Venting: Water heater(s) shall be suitable for power direct venting using a (3" or 4") _____ diameter PVC pipe for a total distance of (70 ft or 100 ft.) _____ equivalent feet of vent piping and (50 ft. or 120 ft.) _____ equivalent feet of intake air piping.

Operation of the water heater(s) in a closed system where thermal expansion has not been compensated for (with a properly sized thermal expansion tank) will void the warranty.

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