



**Submittal and Specification Sheet for CT-250 Commercial Tankless Water Heaters**

**JOB NAME:**

**LOCATION:**

**ARCH./ENGR.:**

**WHOLESALE:**

**MECH. CONTRACTOR:**

**MODEL NUMBER: CT-250**

**BTU/HR INPUT LOW - HIGH FIRE: 30,000 – 250,000 BTU/HR**

**ELECTRICAL SPECIFICATIONS:**

**NOTES:**

Heat Exchanger

- Laser welded 316L enhanced finned tube – single circuit helical design expands to avoid long term heat exchanger failure
- Large diameter tubes enhance overall performance and minimize fouling to avoid scale build up over time
- Heat exchanger has no weld joints and is connected through multiple EPDM seals to enhance durability

Combustion System

- 8 to 1 turndown ratio
- Up to 98% combustion efficiency
- Fully modulating fan
- Wide gas pressure range of 3 ½” to 14” inlet pressure
- Built-in outlet check for cascade system limits potential back pressure issues
- Spark ignition
- Flame monitor system with flame probe
- Highly durable NIT burner offers clean flame stability

Control System

- Provides accurate temperature control
- Allows up to 10 units to be cascaded together, increasing system turndown
- Masterless cascade management – Any unit in the chain can automatically change the setting of all of the connected units
- Flow isolation can be enabled or disabled, allowing user to flow through an individual unit in a cascaded loop to increase overall system efficiency
- High temperature control up to 190°F
- Programmable vent material selection (PVC to CPVC) feature avoids safety issues when operating unit vent temperatures exceed 140°F

Additional Features

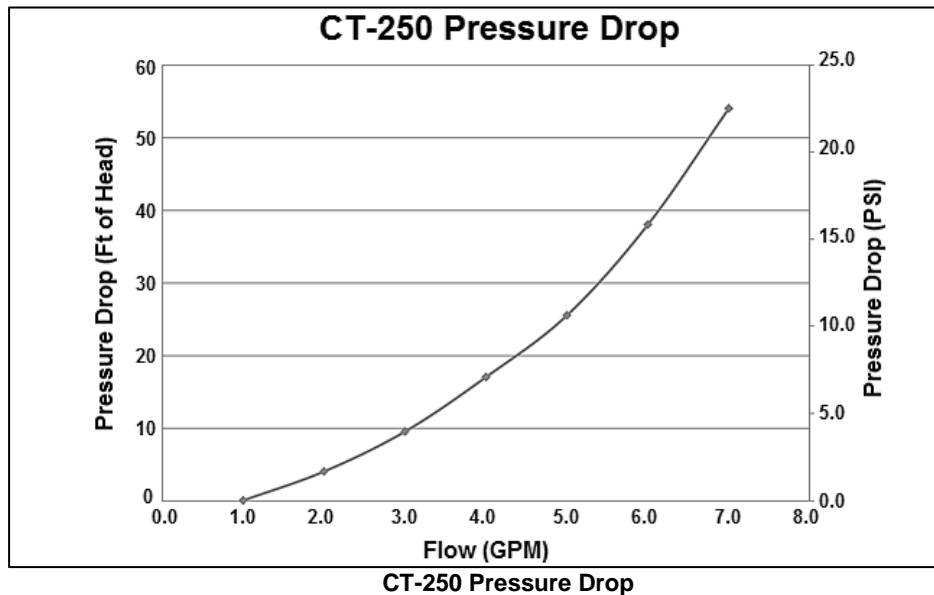
- Industry-best 6-year Commercial Heat Exchanger Limited Warranty
- Up to 96% thermal efficiency
- Vents in PVC, CPVC, Polypropylene, or Stainless Steel
- Vents up to 130 combined feet in 3” PVC
- Wall mounted
- Compact size – fits into very tight spaces
- Can be installed with or without storage tanks for design flexibility
- Blocked Vent Switch
- ASME HLW Certified
- Low NOx Certified to SCAQMD Rule 1146.2
- Lead Free Compliant, as required by the Safe Drinking Water Act, Section 1417

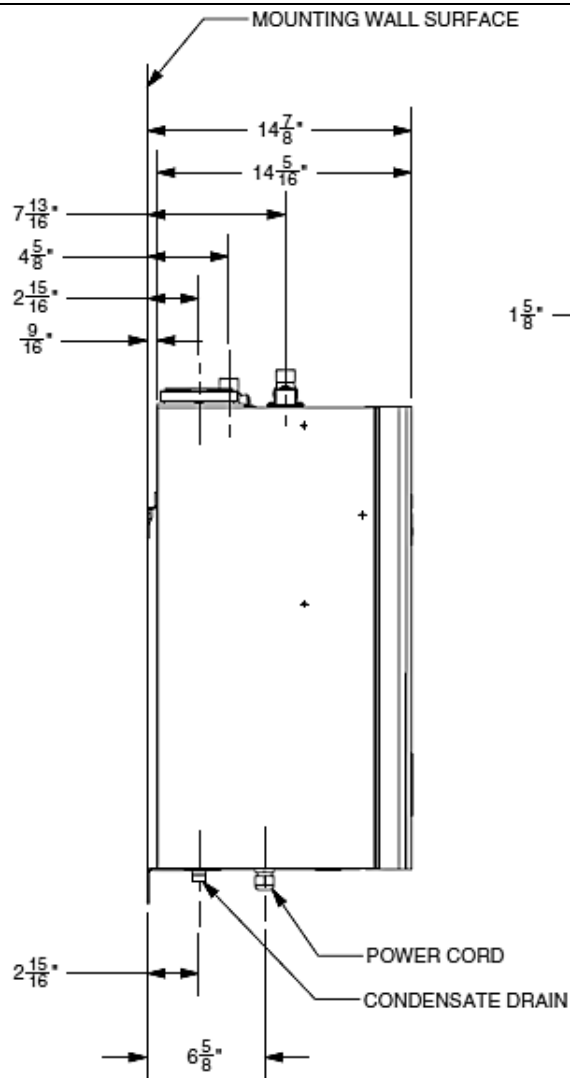
Optional Equipment

- Condensate Neutralizer (Part # 7350P-611)
- 3” Sidewall Vent Kit (V1000)
- 4” Sidewall Vent Kit (V2000)
- 6” Sidewall Vent Kit (V3000)
- 3” Concentric Vent Kit (Part # KGAVT0601CVT)
- Universal Boiler Stand Kit (7500P-300)
- Tankless Isolation Valve Kit (7850P-090)

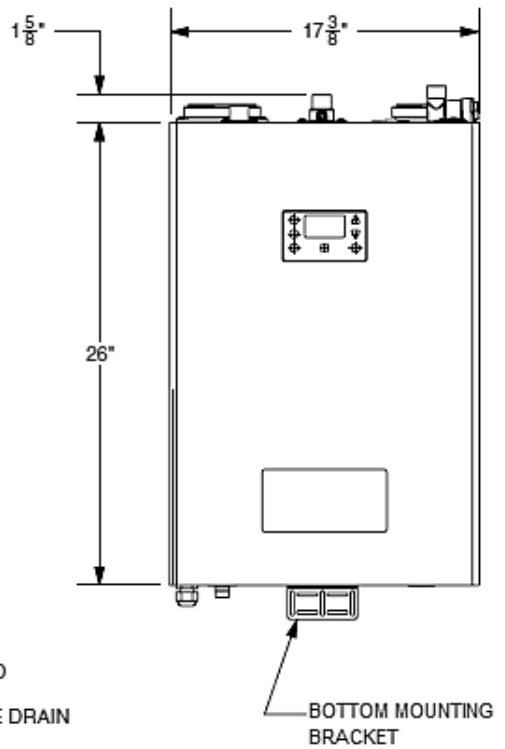
Model	CT-250
Type	Indoor, Wall Hung, Fully Condensing
Fuel	Preset for NG / LP Convertible
Minimum / Maximum Input (Btu/Hr)	30,000 / 250,000
Thermal Efficiency	96%
Energy Factor	N/A
Dimensions H X W X D (Inches)	26 X 17.4 X 14.9 (3.9 cu. ft.)
Weight (lbs)	90
Water Inlet / Outlet Connection	¾" NPT
Gas Inlet Connection	¾" NPT
Minimum Flow Rate for Activation	0.6 GPM
Ignition	Electronic Spark Ignition
Venting Type	Direct Vent (2 pipe – intake and exhaust), Power vent (1 pipe, exhaust only)
Venting Materials	Sch. 40 PVC, Sch. 40 CPVC, Polypropylene, Stainless Steel
Max 3" Vent Length – Single Pipe / Power Vent	130 ft, deduct 5 ft per 90° elbow and 2 feet per 45° elbow
Max 3" Vent Length – Two Pipe / Direct Vent	65 ft, deduct 5 ft per 90° elbow and 2 feet per 45° elbow
Common Venting	Yes
Safety	Flame Rod, Thermal Fuse, Overheat Prevention Device, Blower Speed Monitor, Flue Temperature Monitor, Blocked Vent Detector, Water Shut Off Valve, 2X10A Fuse, Dual Flame Sensing, Flue Damper
Water Pressure Min / Max (PSI)	30 / 160
NG/LP Minimum Static Gas Pressure ½" Black Iron	6"
NG/LP Minimum Static Gas Pressure ¾" Black Iron	2.5"
NG/LP Maximum Static Gas Pressure	14"
Gas Pressure for Adjustments	8" for NG, 11" for LP
Electrical	120V AC, 60 Hz
Power Consumption	500W (Max 4.2 Amps), 8W (Standby)
<b>Features</b>	
Listing	ETL (Z21.10.3 / CSA 4.3), ASME HLW
Cascading	Masterless, Up to 10 water heaters
Heat Exchanger	Expandable, Stainless 316L
<b>Performance</b>	
Hot Water Capacity (35°F Rise)	13.8 gallons
Hot Water Capacity (45°F Rise)	10.7 gallons
Hot Water Capacity (77°F Rise)	6.3 gallons
Domestic Mode Temp. Settings	100 – 140°F
Commercial Mode Temp. Settings	100 – 190°F
Warranty (With Recirculation)	Heat Exchanger Coil – 6 years, Parts – 1 year

CT-250 Technical Specifications – Due to HTP's policy of continuous product improvements, design and technical specifications are subject to change without notice.

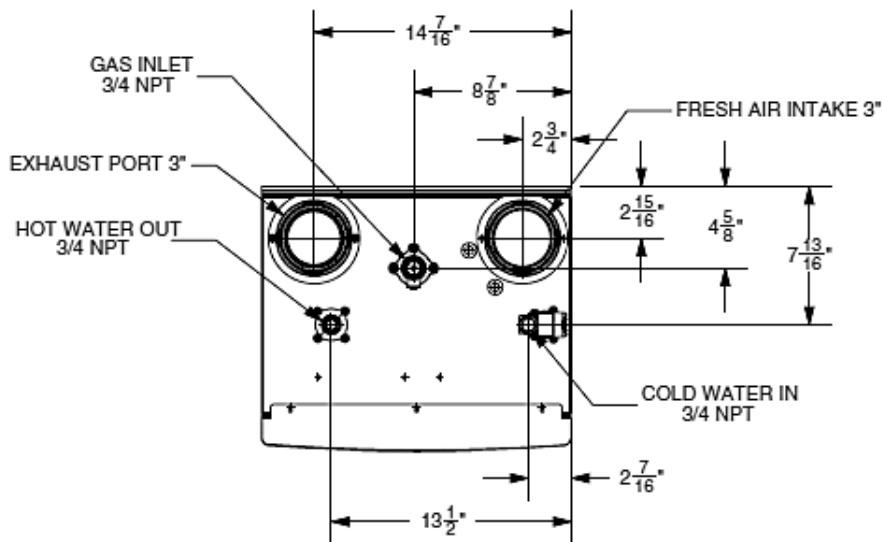




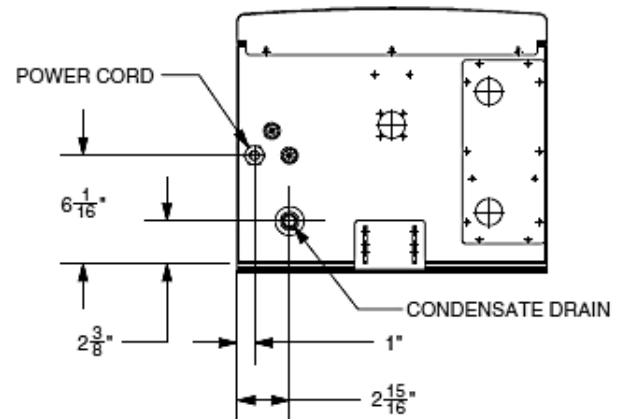
SIDE VIEW



FRONT VIEW



TOP VIEW



BOTTOM VIEW

CT-250 Dimensions – Due to HTP's policy of continuous product improvements, design and technical specifications are subject to change without notice.