

LP-576 rev. 6.12.20

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## Hydra Smart Tankless Wall Mounted Water Heater Submittal Sheet Models: RTC-199

JOB NAME:		
LOCATION:		
ARCH. / ENGR.:		
WHOLESALER:		
MECH. CONTRACTOR:		
MODEL NUMBER:	BTU/HR INPUT LOW - HIGH FIRE:	
TYPE OF GAS:		
NOTES:		
Stainless Steel Heat Exchanger     Low pressure drop, gasketless, vertical tube combustion exchanger design – provides maintenance-free operation internal buildup of material inside the combustion cham     High fin fire tube heat exchanger design provides high efficiency and low pressure drop in a very compact size    Combustion System	<ul> <li>Superior condensate collection system with overflow protection switch</li> <li>Vents in Plastic PVC - CPVC - Stainless Steel – ULC S636 flexible polypropylene vent liner (chimney lining only)</li> <li>Vents up to 100 combined equivalent feet – 3 inch venting, and 50 combined equivalent feet – 2 inch venting</li> <li>10 Year Limited Warranty</li> <li>Manual reset high temperature limit</li> <li>Included wall mount bracket</li> <li>Built-in low water cutoff</li> <li>Low NOx emissions – SCAQMD Certified</li> <li>NSF 372 Lead Free Compliant, as required by the Safe Drinking Water Act, Section 1417</li> <li>Optional Outdoor Enclosure Kit offers greater installation</li> </ul>	
Optical Flame monitoring	flexibility Optional Components	
<ul> <li>Integrated Control System</li> <li>Digital operating control and display to program and monitor boiler operation</li> <li>Programmable settings: Outdoor Reset Curve – DHW Supply Set Point – Step Sequence for delayed response f smart zones – Boost Response – Internal Storage Tank Setpoint Temperature</li> <li>Field Connection Board – Line voltage terminal strip wi 120 VAC / 60 Hertz power / low voltage terminal strip w multiple contacts</li> <li>0-10 VDC input</li> <li>Low water protection device</li> <li>Freeze protection</li> </ul>	th 3" Polypro Flex Vent Kit (8400P-001)	
LP-576 rev. 6.12.20	☐ Condensate Neutralizer (7450P-212)	

Outdoor Enclosure Kit (7850P-107)

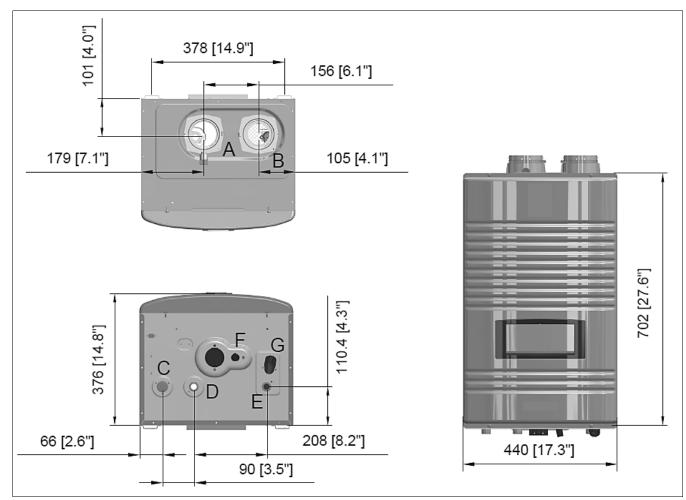


Figure 1 – Specifications and Dimensions

	DESCRIPTION	DIAMETER
Α	Exhaust Outlet Pipe 3"	
В	Air Intake	3"
С	Gas Inlet	3/4"
D	DHW Outlet Adapter	3/4"
E	DHW Inlet Adapter	3/4"
F	Condensate Adapter	1/2"
G	DHW Inlet Filter	N/A

Table 1 – Adapter Specifications

MODEL		RTC-199	
Installation		Indoor, Wall Hung, Fully Condensing	
Minimum / Maximum Input (Btu/Hr)		19,900 / 199,000	
	35°F Rise	11 Gal	
Hot Water Capacity	45°F Rise	8.5 Gal	
	77°F Rise	5 Gal	
Uniform Energy Factor (UEF)		0.93	
Flue System		Sealed Combustion Direct Vent	
Vent Run		2" (50 feet), 3" (100 feet), Schedule 40 PVC, CPVC, PP	
Weight (lbs)		88	
Orifice Size	NG	.374" (9.5 mm)	
	LP	Consult Factory	
	NG	3.5" to 14" WC	
Gas Supply Pressure	LP	3.5" to 14" WC	
Manifold Pressure	Min (3")	NG: -0.01" / LP: -0.05" WC	
	Max (3")	NG: -0.11" / LP: -0.06" WC	
	Main Supply	120V 60 Hz	
<b>Power Supply</b>	Maximum Power	12514/	
	Consumption	135W	
General Operating Conditions		<ul> <li>Ambient Temperature Range: 33 – 104°F (0.6 – 40°C)</li> <li>Operating Relative Humidity: Up to 90% at 140°F (40°C)</li> <li>Shipping and Storage Temperature Range: -4 – 176°F (-20 – 80°C)</li> <li>Input Ratings         <ul> <li>Power Supply and Communication (CN4): 14V DC</li> </ul> </li> <li>Product Approvals and Requirements         <ul> <li>EMC: 89/336/EEC</li> <li>LVD: 73/23/EEC</li> </ul> </li> </ul>	
Ignition S	System	Direct Electronic Ignition / Automatic Flame Sensing	
Burner System		Single Orifice Premixed Fuel Modulation Metal Fiber Infrared	
Gas Valve System		Air Ratio Valve	
Minimum F		0.5 GPM	
Internal Pipe Material		Stainless Steel	
Dimens		W 17.3" – H 27.6" – D 14.8"	
Sub Heat Exchanger Water Capacity (DHW)		Under 2 Gallons	
Main Controller / Control Panel		P-920C / GTH-9500C	
Water Pr		Min 15 – Max 150 PSI	
DHW Setpoint Temperature Range		95°F – 182°F (35°C – 83°C)	
Connection Sizes	Cold Water Inlet /	¾" NPT	
	Hot Water Outlet		
	Gas Inlet	3/4" NPT	
Materials	Cabinet	Cold Rolled Carbon Steel	
	Heat Exchanger	Primary Heat Exchanger: Stainless Steel Secondary Heat Exchanger: Stainless Steel	
Safety Devices		Flame Rod, Burner Overheat Cut Off Device 302°F (150°C), Flue High Limit Switch 190°F (87°C), Water Temperature High Limit Switch 199°F (93°C), Freeze Protection Ceramic Heater (Turns on at 41°F / 5°C, Turns off at 59°F / 15°C)	

**Table 2 – Technical Specifications** 

**NOTE:** HTP reserves the right to make product changes or updates without notice and will not be held liable for typographical errors in literature.