

## Hydra Smart Residential Tankless Water Heater Submittal Sheet Model: RT-150 / 199

BTU/HR INPUT LOW - HIGH FIRE:
Additional Features  Maximum Outlet Temperature of 140°F  Superior condensate collection system with overflow protection switch  Vents in Plastic PVC - CPVC - Stainless Steel – ULC S636 flexible polypropylene vent liner (chimney lining only)  Vents up to 100 combined equivalent feet – 3 inch venting, and 50 combined equivalent feet – 2 inch venting  Twelve (12) Year Residential Limited Warranty  Five (5) Year Commercial Limited Warranty  Manual reset high temperature limit  Included wall mount bracket  Low NOx emissions – SCAQMD Certified  NSF 372 Lead Free Compliant, as required by the Safe Drinking Water Act, Section 1417  Optional Outdoor Enclosure Kit offers greater installation flexibility
Optional Components  EF)  150 PSI Pressure Relief Valve (7850P-103)
☐ 3/4" Tankless DHW Isolation Valves (7850P-090) ☐ 2" Vent Screens (7850P-088) ☐ 3" Polypro Flex Vent Kit (8400P-001)
<ul> <li>□ 3" (80mm) PP Concentric Vent Kit (KGAVT0601CVT)</li> <li>□ 3" Stainless Steel Termination Vent Kit (V1000)</li> <li>□ 4" Stainless Steel Termination Vent Kit (V2000)</li> <li>□ Condensate Neutralizer (7450P-212)</li> </ul>

Outdoor Enclosure Kit (7850P-107)

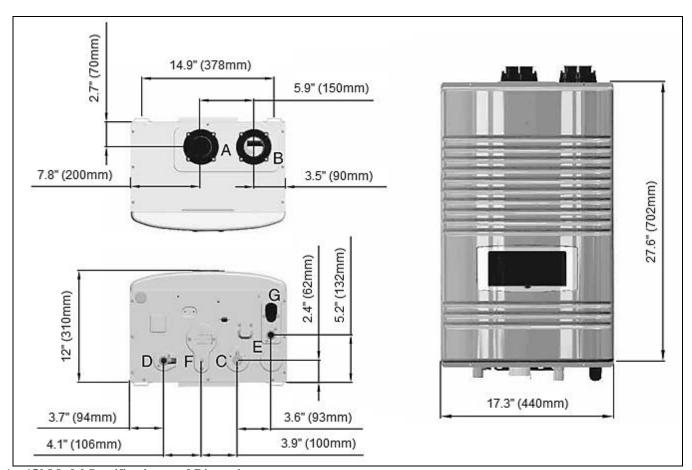


Figure 1 – 150 Model Specifications and Dimensions

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	DESCRIPTION	DIAMETER		
Α	Exhaust Outlet Pipe	2"		
В	Air Intake	2"		
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 – 150 Model Adapter Specifications** 

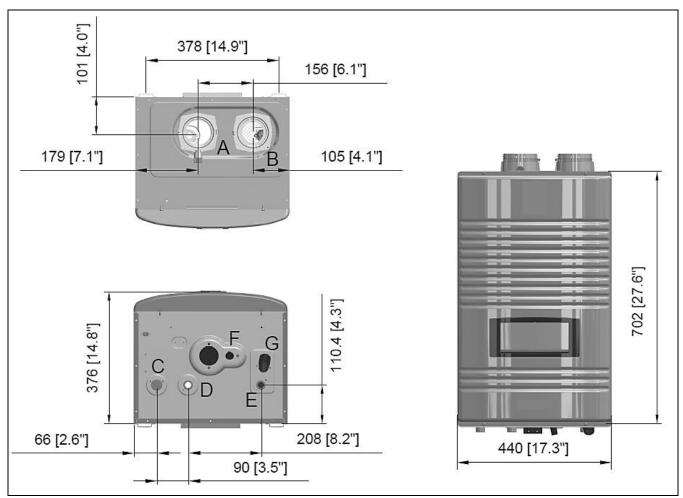


Figure 2 – 199 Model Specifications and Dimensions

	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 2 – 199 Model Adapter Specifications** 

MODEL		RT-150	RT-199	
Installation		Indoor, Wall Hu	ng, Fully Condensing	
Minimum / Maximum Input (Btu/Hr)		15,000 / 150,000	19,900 / 199,000	
Hat Mateu	35°F Rise	8.1 Gal	11 Gal	
Hot Water	45°F Rise	6.3 Gal	8.5 Gal	
Capacity	77°F Rise	3.7 Gal	5 Gal	
Flue System		Sealed Combustion Direct Vent, Power Vent		
Vent Run		2" (50 feet), 3" (100 feet), Schedule 40 PVC, CPVC, PP		
Weight (lbs)		64	88	
Energy Factor (EF)		0.95	0.98	
Uniform Energ	y Factor (UEF)	0.93	0.96	
Orifice Size	NG	.303" (7.7 mm)	.374" (9.5 mm)	
Offinee Size	LP	Consult Factory		
Gas Supply	NG		to 14" WC	
Pressure	LP		to 14" WC	
Manifold	Min (3")	NG: -0.07" / LP: -0.07" WC	NG: -0.10" / LP: -0.05" WC	
Pressure	Max (3")	NG: -0.366" / LP: -0.366" WC	NG: -0.11" / LP: -0.06" WC	
	Main Supply	120	V 60 Hz	
Power Supply	Maximum Power	1	.35W	
	Consumption	Temperature		
General Opera	ting Conditions	<ul> <li>Operating Relative Humidity: Up to 90% at 140°F (60°C)</li> <li>Shipping and Storage Temperature Range: -4 – 176°F (-20 – 80°C)</li> <li>Input Ratings</li> <li>Power Supply and Communication (CN4): 14V DC</li> <li>Product Approvals and Requirements</li> <li>EMC: 89/336/EEC</li> <li>LVD: 73/23/EEC</li> </ul>		
Ignition System		Direct Electronic Ignition / Automatic Flame Sensing		
Burner System		<u> </u>	Modulation Metal Fiber Infrared	
Gas Valve System		Air Ratio Valve		
	Flow Rate	0.5 GPM		
	pe Material	Stainless Steel		
	nsions	W 17.3" – H 27.6" – D 12.6"	W 17.3" – H 27.6" – D 14.8"	
Sub Heat Exchanger Water Capacity (DHW)		Under 2 Gallons		
Control Panel /	Main Controller	P-920C / NGTH-8000C	P-920C / GTH-9500C	
Water F	Pressure		- Max 150 PSI	
DHW Setpoint Te	mperature Range	95°F – 140°F (35°C – 60°C)		
	Cold Water Inlet /	¾" NPT		
Connection Sizes	Hot Water Outlet			
	Gas Inlet	¾" NPT		
	Cabinet	Cold Rolled Carbon Steel		
Materials	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), Water Leak Detection Sensor (150 Model Only)		

**Table 3 – 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.