



Advanced Heating
& Hot Water Systems

High Efficiency Hydra Smart Residential



Condensing Gas Tankless Water Heater

10 to 1 turndown ratio

Durable high grade stainless
steel heat exchanger

Endless hot water, advanced
temperature control

Advanced modulating
water heater with
up to **.96 UEF**

Available in
LP and natural gas

Eco-friendly and low
NOx combustion system

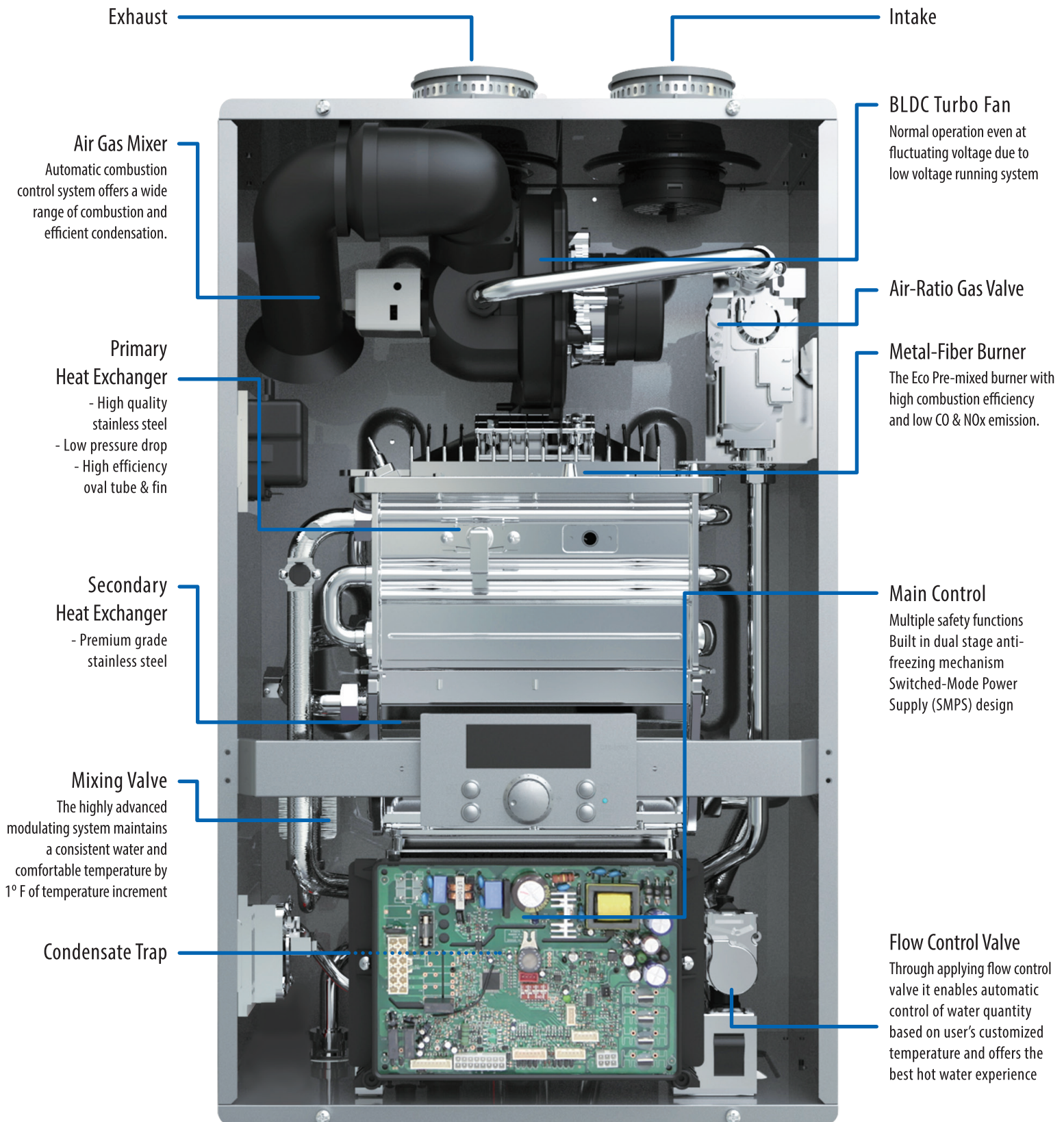


Outdoor Unit Available:
RTO-199

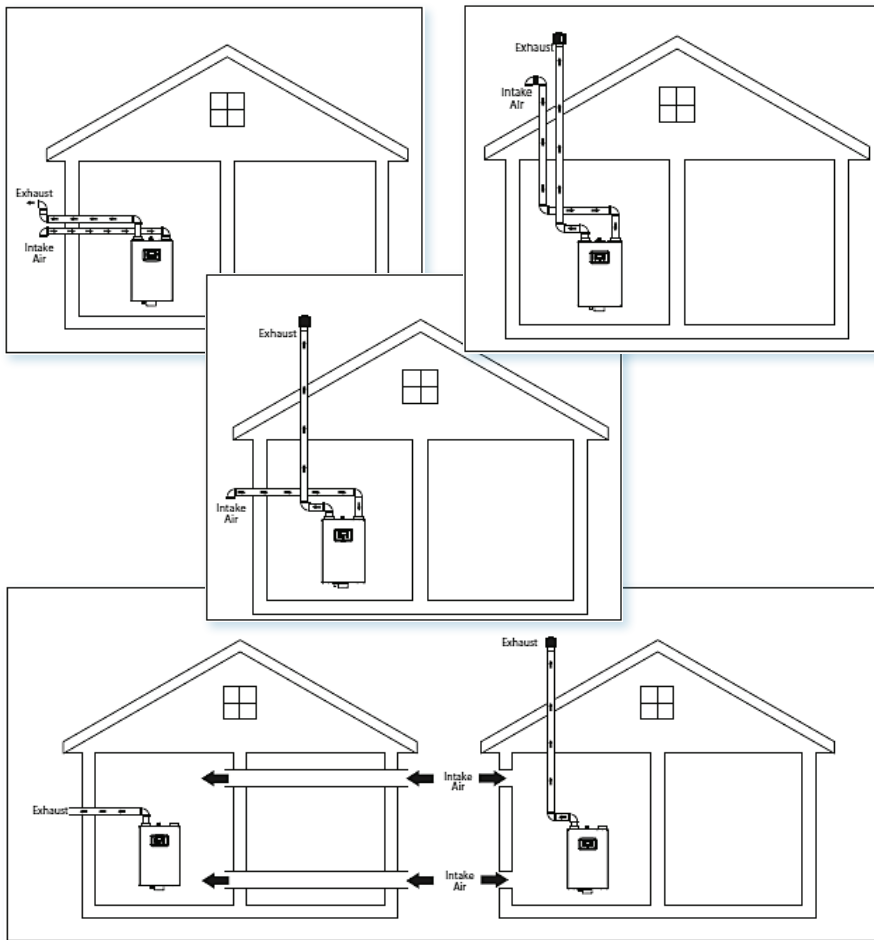


Hydra Smart

A CLOSER LOOK AT THE RT-199



VENT TERMINATION



TESTING



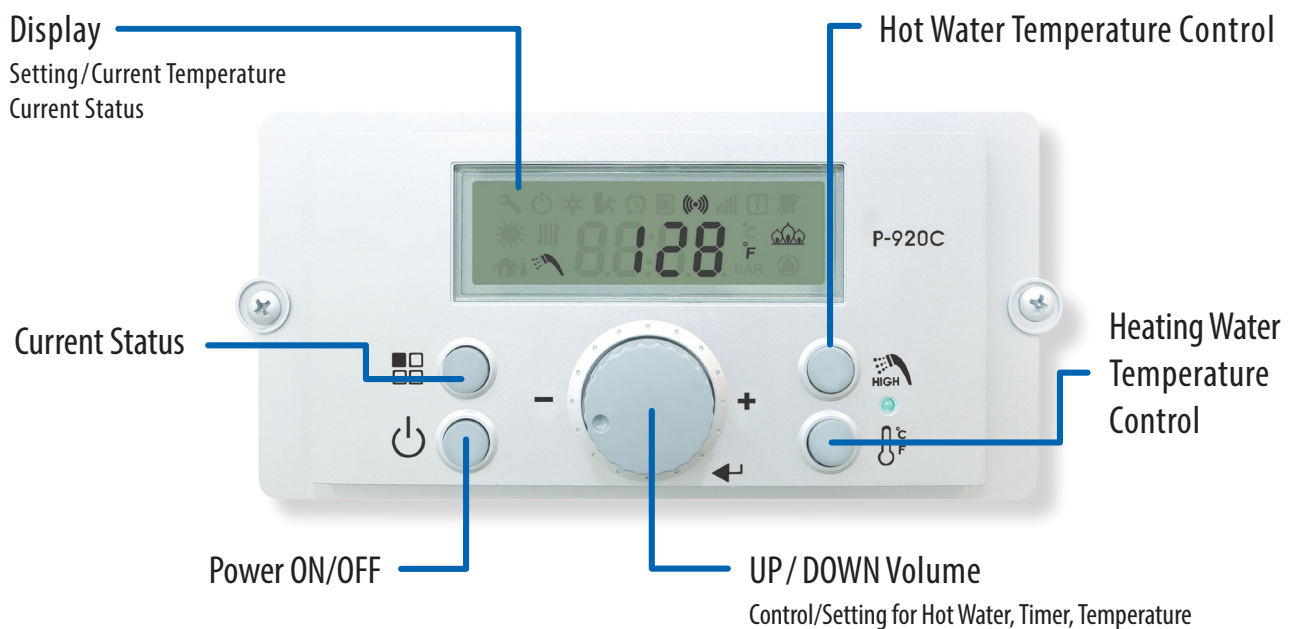
All Hydra Smart - RT Units are properly Tested and Assembled in Massachusetts to ensure that its quality is at the highest level



MULTIFUNCTION CONTROL PANEL

Customized Temperature Control

Advanced user friendly technology of FLOW CONTROL, FLOW SENSOR and HEAT CAPACITY CONTROL makes DHW even more comfortable by maintaining constant temperature during usage

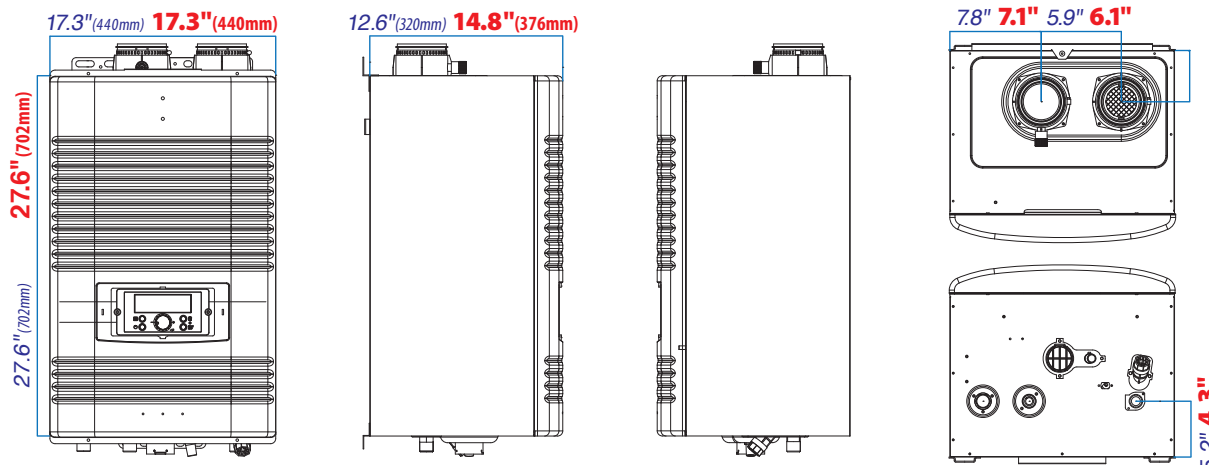


SPECIFICATIONS

12 Year Residential & 5 Year Commercial Limited Warranty

Dimensions for the RT-199 (Red)

Dimensions for the RT-150 (Blue)



*Must be ordered as LP units or Natural Gas units, NOT field convertible

MODEL		*RT-150	*RT-199/RTO-199 (outdoor)
Gas Input Rate	Max	150,000 Btuh	199,000 Btuh
	Min	15,000 Btuh	19,900 Btuh
UEF (Uniform Energy Factor) / EF (Energy Factor)		.93 UEF / .95 EF	.96 UEF / .98 EF
Recovery Efficiency		94%	99%
Max GPM Rating Bin / Max GPM		High / 4.5	High / 5.9
Hot Water Capacity	35°F Rise	8.1 Gal. Per Minute	11.0 Gal. Per Minute
	45°F Rise	6.3 Gal. Per Minute	8.5 Gal. Per Minute
	77°F Rise	3.7 Gal. Per Minute	5.0 Gal. Per Minute
Installation		(Indoor or Outdoor Units) Wall Hung, Fully Condensing	
Flue System		Sealed Combustion Direct Vent, Power Vent	
Vent		2" (50 ft), 3" (100ft) Schedule 40 PVC, CPVC, PP	
Orifice Size	NG (Orifice/Needle)	.303" (7.7 mm)	.374" (9.5 mm)
	LP (Orifice/Needle)	Consult Factory	
Gas Supply Pressure	NG	3.5" WC ~ 14" WC	
	LP	3.5" WC ~ 14" WC	
Manifold Pressure	Min (3")	NG: -0.07" WC / LP: -0.07" WC	NG: -0.10" WC / LP: -0.05" WC
	Max (3")	NG: -0.366" WC / LP: -0.366" WC	NG: -0.11" WC / LP: -0.06" WC
Power Supply	Main Supply	120V 60Hz	
	Max power Consumption	125W	135W
Ignition System		Direct Electric Ignition / Automatic Flame Sensing	
Burner System		Single Orifice Premixed Fuel Modulation Metal Fiber Infrared	
Gas Valve System		Air Ratio Gas Valve	
Minimum Flow Rate		0.5 GPM	
Internal Pipe Material		Stainless Steel	
Dimensions (W x H x D)		17.3" X 27.6" X 12.6"	17.3" X 27.6" X 14.8"
Weight		64 lbs	88 lbs
Heat Exchanger Water Capacity		Under 2 Gallons	
Control Panel / Main Controller		P-920C / NGTH-8000C	P-920C / GTH-9500C
Water Pressure	Max	150 psi	
	Min	15 psi	
Connection Sizes	(Cold/Hot) Water inlet/Outlet	3/4" NPT	
	Gas Inlet	3/4" NPT	
	Condensate	1/2" 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, Flue High Limit Switch 190°F, Water Temperature High Limit Switch 199°F, Freeze Protection Ceramic Heater (Turns on at 41°F, Turns off at 59°F), Water Leak Detect Sensor (RT-150)	