

HIGH EFFICIENCY Crossover

Hybrid Water Heater

The Best Features of Both a Tank & Tankless Water Heater Combined into 1 Superior Unit







To place an order contact your local representative www.htproducts.com/rep









Crossover E



Hybrid Water Heater

The Best Features of Both a Tank & Tankless Water Heater Combined into 1 Superior Unit

Top 10 Features

Advanced modulating 10 to 1 turndown ratio

Beautiful design

Durable 316L stainless steel w/ up to 3.5 gallon fire tube heat exchanger - Zero Flow Activation & Scale Prevention Technology Endless hot water - advanced temperature control

Available in LP and Natural Gas

Eco-friendly and low NOx combustion system

Bottom connections

Internal & external recirculation modes:

Pulse, Smart-Auto Learn & Time Sequenced

Air handler application: Combination heating and DHW

Advanced hi-fin heat exchanger design for superior performance up to 96% thermal efficiency & up to .94 UEF

Crossover [-

incorporates the best of both worlds in one unit with its tank and tankless components. The result is one appliance that exceeds all of your hot water needs

The Crossover allows you to enjoy the benefits of a high efficiency unit without surrendering your need for endless hot water and an abundance of water pressure.

Endless benefits:

- · Holds up to 3.5 gallons in the built-in fire tube 316L stainless steel tank/heat exchanger
- · Wall mounted unit
- · Built in building recirculation pump
- · Bottom connections
- · Up to 96% thermal efficiency & up to .94 UEF
- · Zero flow activation
- · Can be installed outside with enclosure kit (only for the RGH-199 sold separately)

Performance:

Immediate start up & endless hot water: HTP's integrated system delivers hot water on demand, when you need it most! Additionally, because some hot water is stored, the Crossover does not burn unnecessary gas when small amounts of water are needed.

The hybrid design prevents spontaneous bursts of cold water, which are typical for most tankless water heaters. As user demand increases, the Crossover can provide hot water at higher pressures for multiple fixtures.

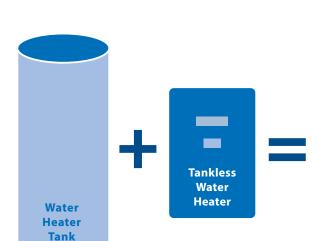


High Efficiency: Saving money!

The Crossover has up to 96% thermal efficiency rating, meaning that for every dollar spent on fuel, 96 cents is used to heat your hot water. That is great savings! The industry average is as low as 70% for standard tanks and 84% for tankless heaters.

The unit's self-cleaning design allows for extremely low maintenance operation.

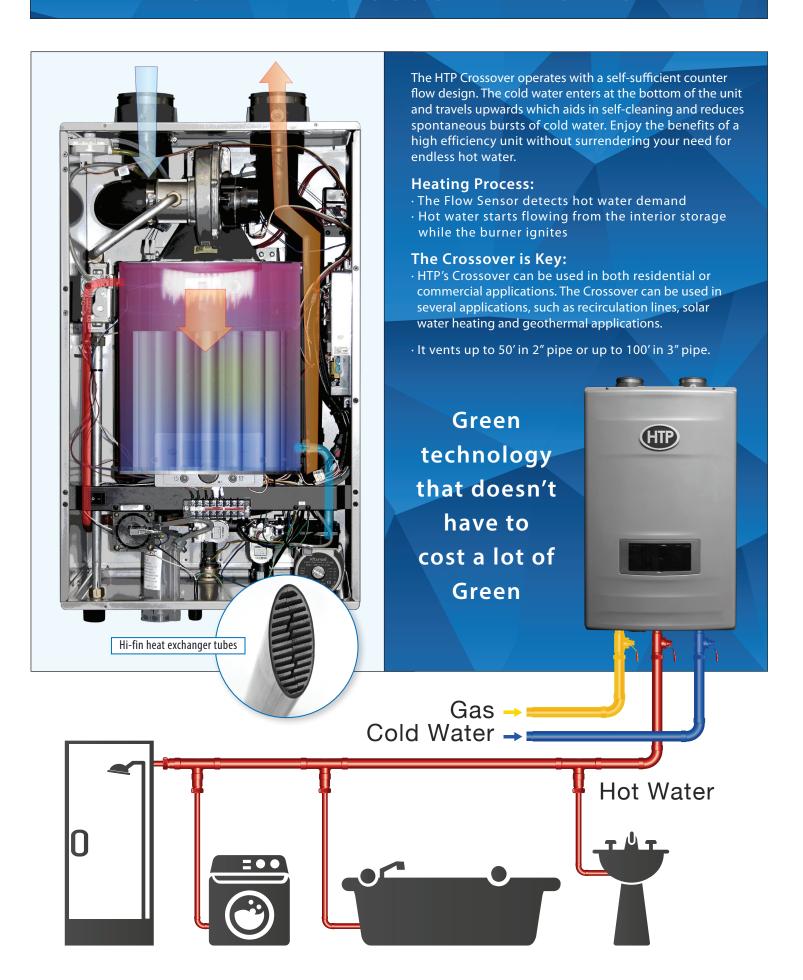
This modulating unit allows for higher efficiencies, which saves energy and money!





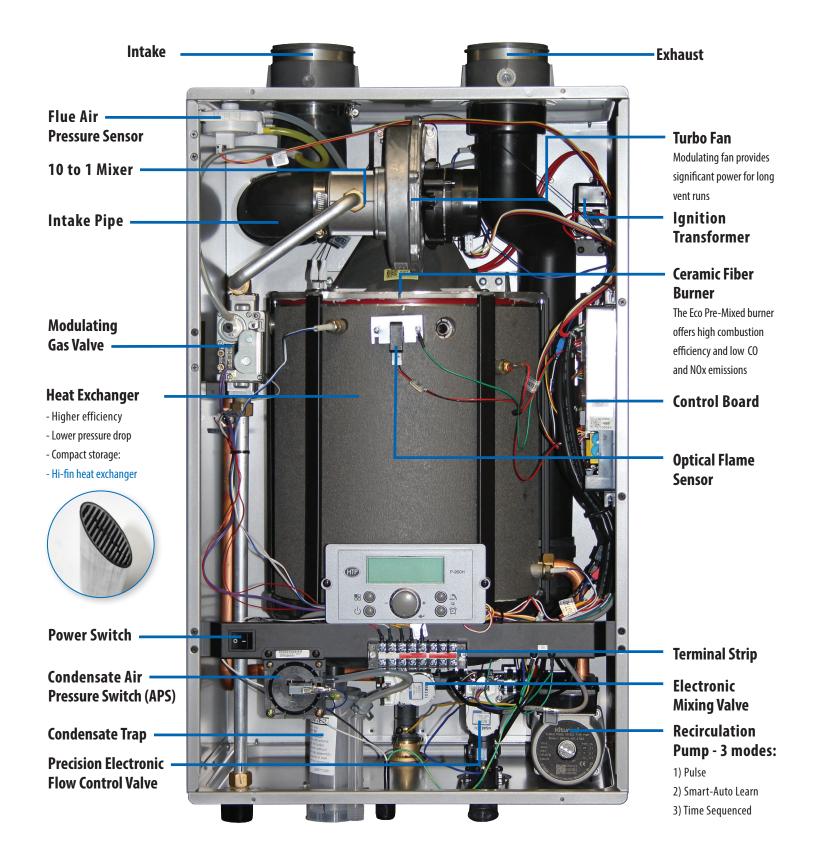


HOW THE CROSSOVER WORKS

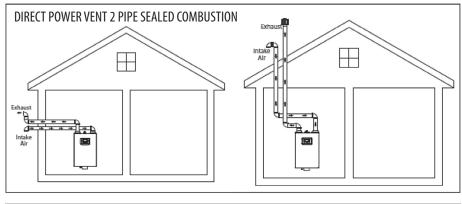


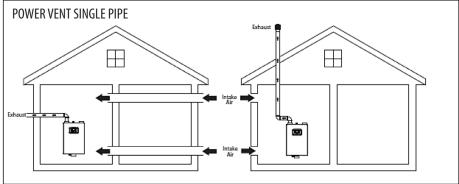


A CLOSER LOOK



MULTIPLE VENTING CONFIGURATIONS

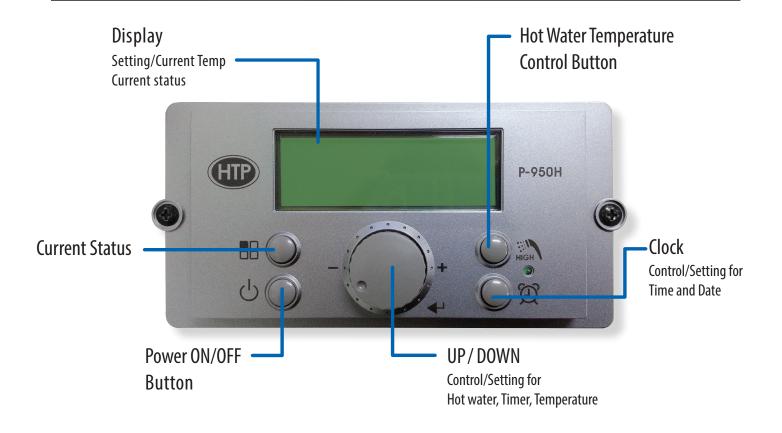




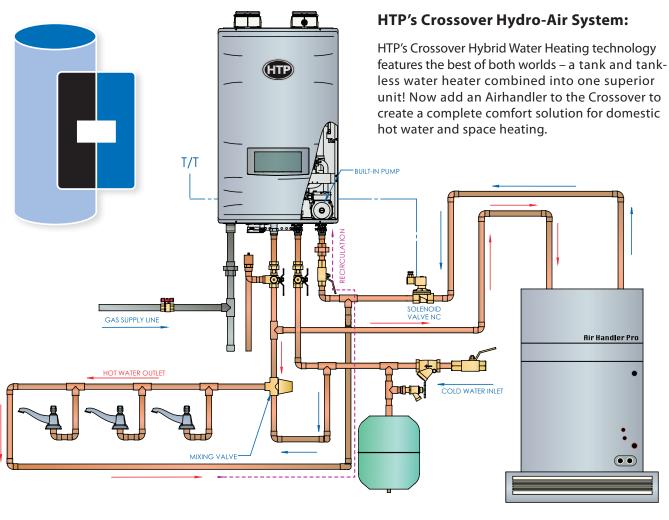
MULTIFUNCTION CONTROL PANEL

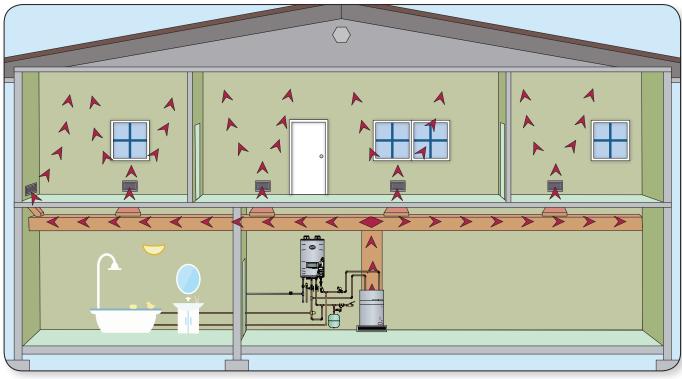
Customized Temperature Control

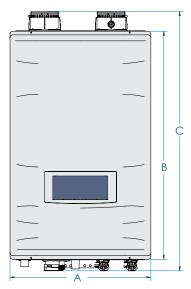
Advanced user friendly technology of FLOW CONTROL, FLOWSENSOR and heat capacity control makes DHW even more comfortable by maintaining constant temperature during usage

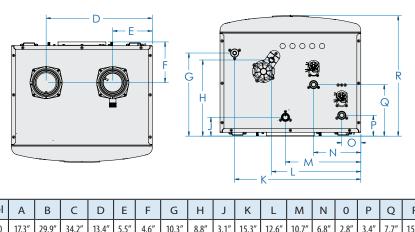


THE CROSSOVER WITH AN AIR HANDLER (HYDRO AIR): DOMESTIC HOT WATER & SPACE HEATING COMBINATION









Model	Α	В	C	D	Е	F	G	Н	J	K	L	М	Ν	0	Р	Q	R
RGH-150	17.3"	29.9"	34.2"	13.4"	5.5"	4.6"	10.3"	8.8"	3.1"	15.3"	12.6"	10.7"	6.8"	2.8"	3.4"	7.7"	15.4"
RGH-199	19.7"	31.9"	36.3"	14.8"	5.5"	5.7"	11.6″	10.6"	2.6"	17.6"	12.5"	10.5"	6.6"	5.7"	2.9"	7.2"	16.8"

12 Year Residential & 5 Year Commercial Limited Warranty

*Add "LP" to end of Model Number for Liquid Propane Units • Model Numbers that have an "O" on the end are OUTDOOR units

MOD	EL	RGH-150 / RGH-150O*	RGH-199 / RGH-1990*				
Installa	tion	(Indoor or Outdoor Units) Wall Hung, Fully Condensing					
Minimum / Maximu	ım Input (Btuh)	15,000 / 150,000	19,900 / 199,000				
DOE Rated Stor	rage Volume	2.3 gallons	3.5 gallons				
UEF (Uniform Energy Facto	r) / Thermal Efficency	.94 / 95%	.92 / 96%				
Recovery E	fficiency	97%	95%				
Max GPM Rating	Bin / Max GPM	High / 4.4	High / 5.8				
	35°F Rise	8.2 Gal. Per Minute	11 Gal. Per Minute				
Hot Water Capacity	45°F Rise	6.4 Gal. Per Minute	8.5 Gal. Per Minute				
	77°F Rise	3.7 Gal. Per Minute	5 Gal. Per Minute				
Weight	(lbs)	90	100				
Flue Sys	stem	Sealed Combustion Direct Vent; Power Vent					
Ven		2" (50 ft), 3" (100ft) Schedule 40 PVC, CPVC, PP					
	NG (Orifice/Needle)	.284" (7.2 mm)	.374" (8.3 mm)				
Orifice Size	LP (Orifice/Needle)	.217" (5.5 mm)	.240" (6.2 mm)				
	NG	3.5" to 14" WC					
Gas Supply Pressure	LP	3.5" to 14" WC					
	Min (3")	NG / LP: 0.006" WC	NG: 0.003" / LP: -0.04" WC				
Manifold Pressure	Max (3")	NG / LP: -0.13" WC	NG: -0.19" / LP: -0.20" WC				
	Main Supply	120V 60					
Power Supply	Max power Consumption	72W (With Pump 100W)					
General Operatir	ng Conditions	Ambient Temperature Range: 33 – 104°F (0.6 – 40°C) Operating Relative Humidity: Up to 90% at 104°F (40°C) Shipping and Storage Temperature Range: -4 – 176°F (-20 – 80°C) Input Ratings Power Supply and Communication (CN4): 14V DC Product Approvals and Requirements EMC: 89/336/EEC - LVD: 73/23/EEC					
Ignition S	votom	Direct Electric Ignition / Automatic Flame Sensing					
Burner S	•	Single Orifice Premixed Fuel Modulation / Ceramic Fiber Burner					
Gas Valve		Air Ratio Valve					
Internal Pipe		Copper					
Dimensions (Copper W17.5" – H30" – D15.5" W 19.7" – H 32" – D 16.3"					
Heat Exchanger V	· ·	Under 2.5 Gallons	Under 3.5 Gallons				
Control Panel/Ma		1 11 11 11 11	NGTH-10C				
Water Pre		Min 12 – Max 150 PSI					
Connection Sizes	Water inlet & Outlet Recirculation Inlet	3/4" NPT					
Connection Sizes	Gas Inlet	3/4" NPT					
	Cabinet	Cold Rolled Carbon Steel					
Materials	Heat Exchange	316L Stainless Steel					
Safety De	9	Optical Flame Sensor, Burner Plate High Limit (392°F), Water Temperature High Limit Sensor (203°F), Freeze Protection (Three Stage Operation - Activates at 46°F – See Freeze Protection in Installer Menufor Details), Exhaust Temperature High Limit Sensor (190°F), Blocked Flue and Intake Sensor, Condensate Switch, Built-In Low Water Cut-Off Probe					

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