

HTP • 272 Duchaine Blvd, New Bedford, MA 02745 • www.htproducts.com

## Crossover Floor Mounted Water Heater Submittal Sheet Models: RGH20-100F

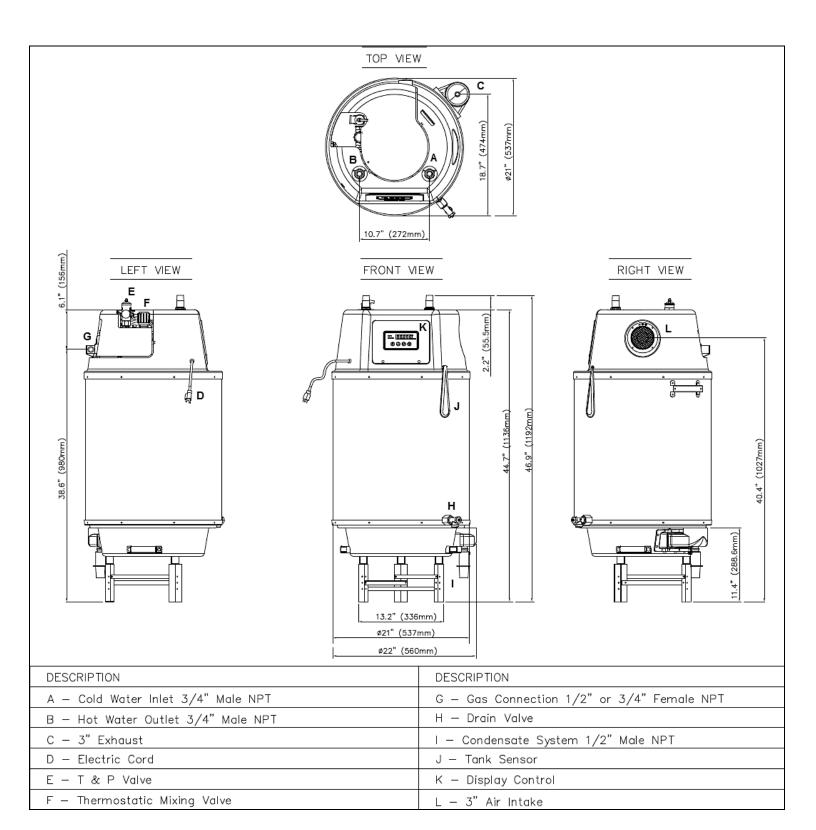
JOB NAME:	
LOCATION:	
ARCH. / ENGR.:	
WHOLESALER:	
MECH. CONTRACTOR:	
MODEL NUMBER: B'	TU/HR INPUT LOW - HIGH FIRE:
MODEL NOMBER.	TO/TIX INFOT LOW - THEIT FIRE.
TYPE OF GAS:	
NOTES:	
<ul> <li>High Efficiency Fire Tube Heat Exchanger</li> <li>Corrosion resistant 316L stainless steel construction for superior service life</li> <li>Gasketless heat exchanger design</li> <li>Fire tube design enhances condensate drainage and minimizes build-up inside the secondary portion of the exchanger to enhance the long-term efficiency of the unimizes Steel Storage Tank</li> <li>High-quality stainless-steel tank construction</li> <li>All plumbing connections are stainless steel</li> <li>Combustion System</li> <li>Modulating burner with up to 2 to 1 turndown for bettemperature control</li> <li>Low NOx operation exceeds the most stringent standary (SCAQMD Approved)</li> <li>High Grade Inconel mesh premix burner</li> <li>Reliable direct spark ignition</li> <li>Models ship ready to fire on Natural Gas</li> <li>Field convertible to LP Gas operation (Kit included weater heater)</li> </ul>	CPVC, Stainless Steel, or Polypropylene Pipe  Exhaust support bracket supports exhaust pipe on the water heater (Additional supports are required. See installation manual for further details)  Lead Free Compliant as required by the Safe Drinking Water Act, Section 1417  Six (6) Year Limited Residential Tank Warranty  Three (3) Year Limited Commercial Tank Warranty  High altitude compliant models certified up to 10,000 feet above sea level  Water heater extension legs keep water heater bottom from corroding for longer service life  Water inlet and outlet connections are on the top of the water heater for easy replacement of existing water heaters  All major components can be easily serviced from the top of the water heater  ASSE 1017 rated domestic water thermostatic valve
• Flame monitoring through flame rod	☐ 3" Power Vent Exhaust Termination (Part # 8100P-029)
<ul> <li>Energy Efficiency</li> <li>Up to 0.87 Uniform Energy Factor (UEF)</li> </ul>	☐ 3" Exhaust Extension Adapter w/ Combustion Test Port (8100P-030) ☐ 3" Polypro Flex Vent Kit (8400P-001)
Integrated Control System	THE DAY OF COMMENT AND A STATE OF COMMENTAL OF THE COMMENT OF THE
<ul> <li>LCD control display enables user to monitor and cont storage tank temperature setting, faults, and system</li> </ul>	rol 3" PVC Concentric Vent Kit (KGAVT0601CVT)
parameters	☐ 3" Stainless Steel Termination Vent Kit (V1000)
<ul> <li>Fan speed is adjusted automatically through pulse wit signal provided from the control, enabling the unit to modulate its firing based on tank temperature set point</li> </ul>	Condensate Neutralizer (7450P-212)

Heating Application Kit (8100P-049)

System safeties are constantly monitored through the control

to ensure the unit is operating within designed parameters Safeties include: Flue Pressure, ECO Water Temperature Limiting Sensor, Burner Temperature Sensor, Flame

Rectification Current Monitoring High altitude fan adjustment switch



MODEL		RGH-100F
Uniform Energy Factor (UEF) (*)		0.87
Installation		Indoor, Floor Mount, Fully Condensing
Minimum to Maximum Input (Btu/Hr)		50,000 to 100,000
Condensate pH Level		4 pH
Flue System		Sealed Combustion Direct Vent, Power Vent
3" Vent Run		100 feet, 6 elbows max, 5 ft deduction per 90° elbow
		Schedule 40 PVC, CPVC, PP
Weight (lbs)		110
Gas Type		Pre-set for NG / LP Conversion Kit Included
Orifice Size	NG	5.3 mm (0.208")
OTHICE SIZE	LP	3.5 mm (0.137")
Gas Supply	NG	3.5" to 14" WC
Pressure	LP	NG 0.15%/LD 0.10%WG
Manifold	Min (3")	NG: -0.15" / LP: -0.10" WC
Pressure	Max (3")	NG: -0.15" / LP: -0.10" WC
D C 1	Main Supply	Dedicated 120VAC 60 Hz with 3 Pronged Power Cord
Power Supply	Maximum Power Consumption	53W
Ignition System		Direct Electronic Spark Ignition with Automatic Flame Sensing
Burner System		Single Orifice Premixed Fuel Injection Metal Fiber Premix Burner
Gas Valve System		Dual Stage Air Ratio Negative Pressure
Minimum Flow Rate		Zero activation with 20 gallons capacity tank
Internal Pipe Material		Copper
Dimensions		21" Diameter – 47" Height
Reserve Tank		20 Gallons
First Hour Rating at 90°F Rise		130 Gallons
Water Pressure		Min 12 – Max 150 PSI
DHW Setpoint Temperature Range		Mechanical Tempering Valve from 70°F – 145°F (21°C – 63°C)
		Factory Preset to 120°F (48.9°C)
Activation Sensing		Tank Temperature
Tem	perature Control	Thermistor Starts with Heating Cycle
	Cold Water Inlet / Hot	<u> </u>
Connection Sizes	Water Outlet	<sup>3</sup> / <sub>4</sub> " Male NPT
	Gas Inlet	½", ¾" Female NPT
Materials	Cabinet	Cold Rolled Carbon Steel
	Heat Exchanger	Stainless Steel
		T&P Valve, Flame Rod, Remaining Flame Detection, Fan RPM Check, Vent
		Blockage Detection, ECO Burner Plate (305°F), ECO Hot Water Cutoff (194°F),
		1 x 5A Fuse, Intake Blockage Detection

**Table 1 – 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.

<sup>\*</sup>Maximum manifold pressure is indicated on the rating label on right side of the unit.

<sup>\*</sup>Independent DOE tested.

<sup>\*</sup>AHRI Certified.