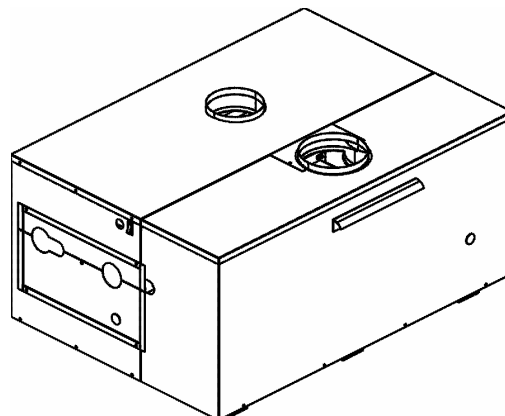


Job: \_\_\_\_\_  
 Engineer: \_\_\_\_\_  
 Contractor: \_\_\_\_\_  
 Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Model: \_\_\_\_\_ Indoor/Outdoor: \_\_\_\_\_ MBH Input: \_\_\_\_\_

# Hi Delta<sup>®</sup> - Type WH

Water Heaters  
 Models 122-322

- TruSeal<sup>®</sup> Direct Vent**
- Sealed Combustion Chamber**
- 100% Factory Fire Tested**
- Efficiency: 85%**
- Maximum Outlet Temperature: 210°F**
- Minimum Non-condensing Inlet Temperature: 105°F**
- Thermal Shock Proof Heat Exchanger**
- Limited Twenty-year Thermal Shock Warranty**
- Limited Five-year Heat Exchanger Warranty**
- Fault Indicator LED**
- PolyTuf Powder Coated Cabinet**
- No Combustible Floor Shield Required**
- Fan-assisted**



### Heat Exchanger

- HLW Stamp
- Headers
  - Bronze - Standard
  - Cast Iron, Glass-lined – Option A-2
- ASME Inspected and Stamped 160 PSIG Working Pressure
- National Board Approved
- Finned Tubing
  - Copper - Standard
  - Cupro Nickel – Option A-3
- ASME Steel Tube Sheet
- Silicone High Temp O-Rings
- ASME Pressure Relief Valve
  - 125 PSIG – Standard
  - \_\_\_\_\_ PSIG – Optional
- Temperature and Pressure Gauge
- Left-hand Water Connections

### Controls

- 120V, 60Hz, 1Ø Power Supply
- 120/24V 60Hz Transformer
- 100% Pilot Shutoff/Lockout
- Hot Surface Ignition
- Remote Flame Sensor
- Fixed High Limit Control, Auto Reset
- Fixed High Limit Control, Manual Reset
- On/Off Power Switch
- Blocked Vent Pressure Switch
- Combustion Air Proving Switch
- Pump Relay

### Gas Train

- Manual Gas Shut-off Valve(s)
- Gas Pressure Regulator
- Safety Shut-off Valve
- Firing Control Valve
- Firing Mode
  - On/Off (WH1) – Standard
  - 2 Stage (WH3) – Optional
- Fuel
  - Natural Gas
  - Propane Gas
- Design Certified - ANSI Z21.10.3/CSA 4.3

### Construction

- Indoor/Outdoor Construction
- Front Controls Enclosed
- PolyTuf Powder Coat Finish
- TruSeal<sup>®</sup> Direct Vent
- Filter Kit

### Venting

- Vent Termination Cap
  - Outdoor – Option D-11
  - Indoor, Horizontal – Option D-15
  - Indoor, Vertical (by others)
- Combustion Air
  - Air Intake Elbow – Option D16
- Extractor – Optional
  - By Others
  - Not Required

### Burner

- Ultra-Low NOx (<30 ppm)

### Temperature Controls

- B-2 1-Stage Controller, 100-200°F
- B-3 2-Stage Controller, 100-200°F
- B-\_\_ Remote Controller
  - By others:

### Options

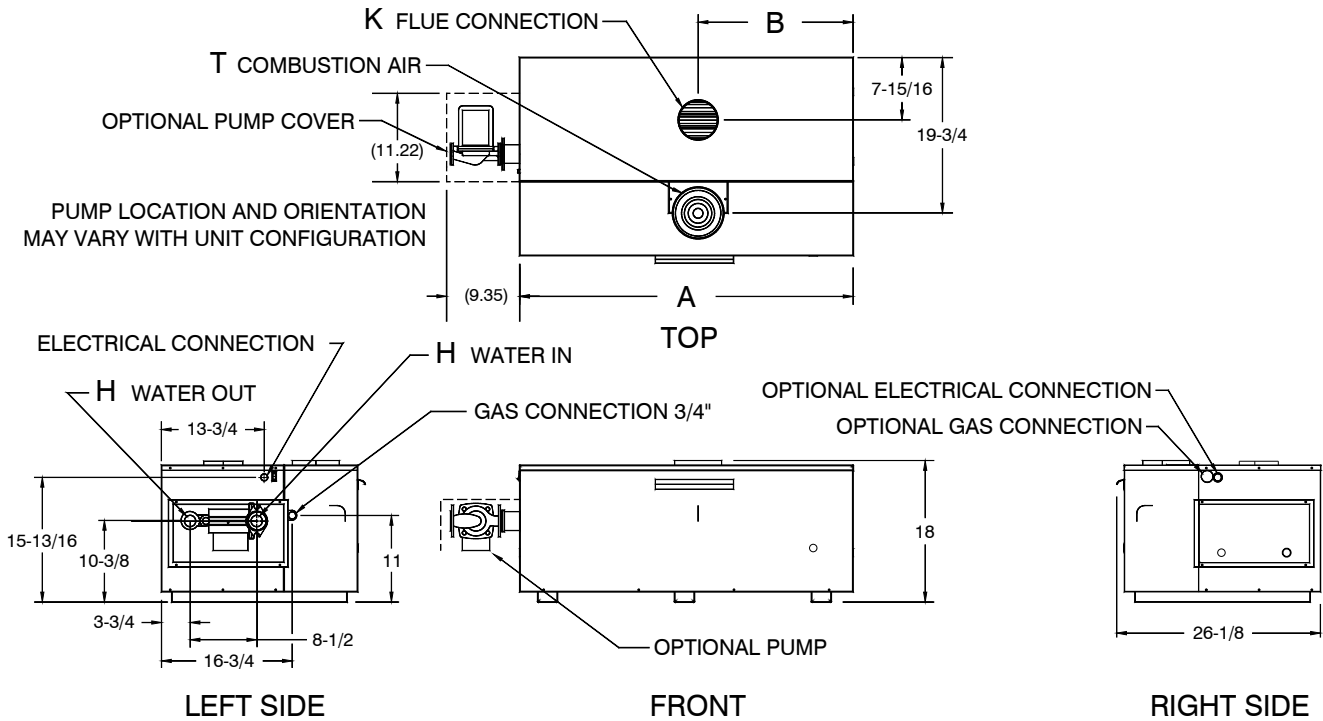
- F-1 Flow Switch (shipped loose)
- F-10 Low Water Cut-off, Remote Probe
- I-1 Adjustable High Limit Control, Auto Reset
- I-2 Adjustable High Limit Control, Manual Reset
- P-\_\_ Pump: \_\_\_\_\_ HP, 120V, 1Ø, 60 Hz
  - Bronze  Mounted
  - Cast Iron  Loose
- X-1 SureRack<sup>™</sup> Kit
  - Two-high
  - Three-high



**Raypak<sup>®</sup>**  
 A Rheem<sup>®</sup> Company

# Hi Delta – Type WH Models 122-322

Model \_\_\_\_\_



## SPECIFICATIONS

## WATER HEATER RECOVERY RATES (GPH)

MODEL	MBTUH		FIRING STAGES	A	B	H NPT	K	T
	INPUT	OUTPUT						
WH 122	120	102	1*	24-7/8	10-3/4	1-1/4	4	5
WH 162	160	136	1*	28-1/2	12-9/16	1-1/4	5	5
WH 202	199	169	1*	32-1/8	14-3/8	1-1/4	5	5
WH 242	240	204	1*	35-1/2	16-3/16	1-1/2	5	5
WH 322	320	272	1*	42-5/8	19-13/16	1-1/2	6	5

MODEL	TEMPERATURE RISE IN °F								
	20°	30°	40°	50°	60°	70°	80°	90°	100°
WH 122	618	412	309	247	206	177	155	137	124
WH 162	824	549	412	330	275	235	206	183	165
WH 202	1030	687	515	412	343	294	258	229	206
WH 242	1236	824	618	495	412	353	309	275	247
WH 322	1648	1099	824	659	549	471	412	366	330

\* 2 stage optional  
 Dimensions are in inches.

## RATES OF FLOW AND PRESSURE DROPS

MODEL	10°F ΔT		20°F ΔT		MIN. FLOW			MAX. FLOW		
	GPM	ΔP (ft)	GPM	ΔP (ft)	GPM	ΔP (ft)	ΔT	GPM	ΔP (ft)	ΔT
WH 122	20	2.5	N/A	N/A	20	2.5	10	30	5.4	7
WH 162	27	4.5	N/A	N/A	20	2.5	14	30	5.5	9
WH 202	35	5.5	N/A	N/A	20	2.6	17	35	5.5	10
WH 242	41	10.4	21	2.7	20	2.7	21	44	11.8	9
WH 322	N/A	N/A	27	4.7	20	2.7	27	44	12.2	12

Basis is 20 GPM for minimum flow, 44 GPM for maximum flow (except for 1.25" header).

NOTES: 1. Rates shown are for natural or propane gas, and elevations up to 5,000 feet. For installations above 5,000 feet, please contact manufacturer.  
 2. Required natural gas pressure is 7 – 10.5" WC. Required propane gas pressure is 11 - 13" WC.

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