

Job: _____

Engineer: _____

Contractor: _____

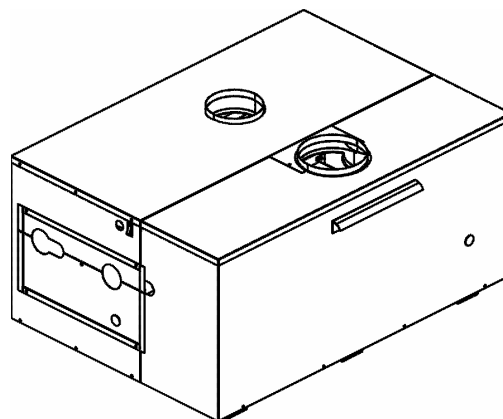
Prepared By: _____ Date: _____

Model: _____ Indoor/Outdoor: _____ MBTUH Input: _____

Hi Delta[®] - Type H

Space Heating/Hot Water Boiler Models 122-322

- TruSeal[®] Direct Vent**
- Sealed Combustion Chamber**
- 100% Factory Fire Tested**
- Efficiency: 84%**
- Maximum Outlet Temperature: 230°F**
- Minimum Non-condensing Inlet Temperature: 105°F**
- Thermal Shock Proof Heat Exchanger**
- Limited Twenty-year Thermal Shock Warranty**
- Limited Five-year Closed-System Heat Exchanger Warranty**
- Fault Indicator LED**
- PolyTuf Powder Coated Cabinet**
- No Combustible Floor Shield Required**
- Fan-assisted**



Heat Exchanger

- Headers
 - Cast Iron, Glass-lined – Standard
 - Bronze – Option A-1
- 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
- Pressure Relief Valve - ASME
 - 45 PSIG - Standard
 - _____ PSIG - Optional
- Temperature and Pressure Gauge (shipped loose)
- 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
 - Two-stage (H3) - Standard
 - On/Off (H4) - Optional
- Fuel
 - Natural Gas
 - Propane Gas
- Design Certified
ANSI Z21.13/CSA 4.9

Burner

- Ultra-low NOx (<30 ppm)

Construction

- Indoor/Outdoor Construction
- Front Controls Enclosed
- PolyTuf Powder Coat Finish
- TruSeal[®] 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 D-16
 - In-line Filter Kit – Option D-17
- Extractor – Optional
 - By others
 - Not required

Temperature Controls

- B-3 1-Stage Controller, 100-200°F
- B-4 2-Stage Outdoor Reset Control
- B-6 2-Stage Controller, 130-230°F
- B-__ Remote Controller
- By others: _____

Options

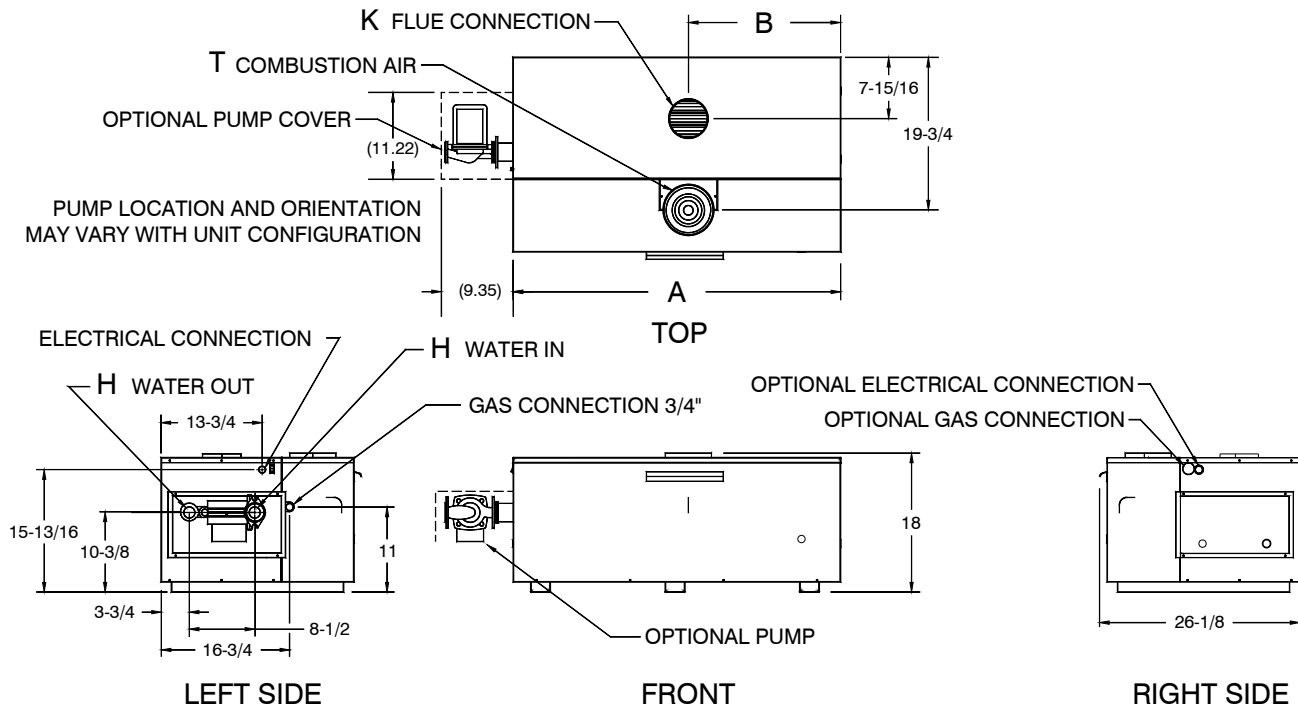
- F-1 Flow Switch (shipped loose)
- F-10 Low Water Cut-off, Remote Probe
- I-1 Adjustable High Limit Control, Auto Reset
- I-2 Adjustable High Limit Control, Manual Reset
- P-__ Pump: _____ HP, 120V, 1Ø, 60 Hz
 - Bronze Mounted
 - Cast Iron Loose
- X-1 SureRack[™] Kit
 - Two-high
 - Three-high



Hi Delta 122-322

Type H - Hydronic Heating

Model _____



MODEL	MBTUH		AFUE (%)	FIRING STAGES	A	B	H NPT	K	T	APPROX. SHIP WT. (LBS.)
	INPUT	OUTPUT								
H 122	120	101	84	2*	24-7/8	10-3/4	1-1/4	4	5	225
H 162	160	134	84	2*	28-1/2	12-9/16	1-1/4	5	5	240
H 202	199	167	84	2*	32-1/8	14-3/8	1-1/4	5	5	255
H 242	240	202	84	2*	35-1/2	16-3/16	1-1/2	5	5	270
H 322	320	269	N/A	2*	42-5/8	19-13/16	1-1/2	6	5	300

Dimensions are in inches.

* 1 stage optional

RATES OF FLOW AND PRESSURE DROPS

MODEL	10°F ΔT		20°F ΔT		30°F ΔT		MIN. FLOW			MAX. FLOW		
	GPM	ΔP (ft)	GPM	ΔP (ft)	GPM	ΔP (ft)	GPM	ΔP (ft)	ΔT	GPM	ΔP (ft)	ΔT
H 122	20	2.5	10	<1.0	N/A	N/A	10	<1.0	20	30	5.3	7
H 162	27	4.5	13	1.1	N/A	N/A	10	<1.0	27	30	5.4	9
H 202	34	7.2	17	1.85	11	<1.0	10	<1.0	34	30	5.5	11
H 242	40	10.0	20	2.65	14	1.3	10	<1.0	40	44	11.8	9
H 322	N/A	N/A	27	4.7	18	2.2	14	1.35	40	44	12.2	12

Basis is 10 GPM or 40°F ΔT 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. Recommended natural gas pressure is 7 – 10.5" WC. Recommended propane gas pressure is 11 - 13" WC.

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