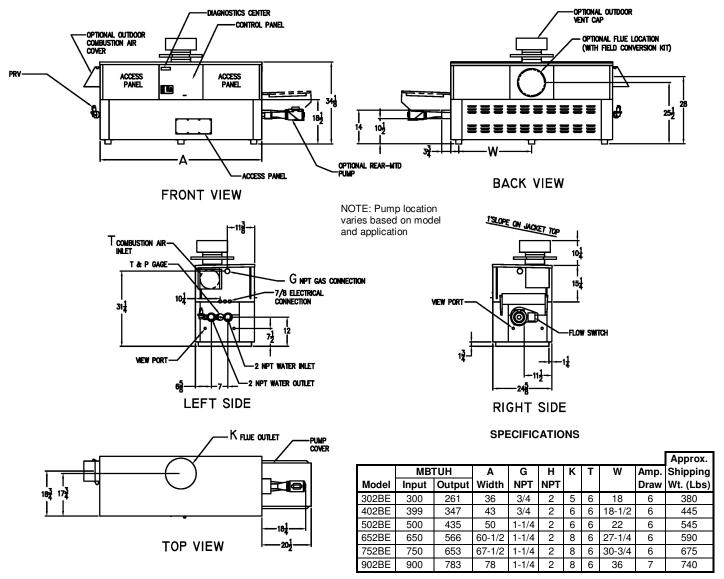
Job:	H	Hi Delta [®] - Type H						
Engineer:		Hydronic Heating Boiler						
Contractor:		Models 302BE-902BE						
	Date:	87% Efficiency						
	Indoor/Outdoor:	MBTUH Input:						
 100% Factory Fire Tested Efficiency: 87% Maximum Outlet Temperature: 23 Minimum Non-Condensing Inlet Thermal Shock Proof Heat Excha Limited Twenty-Year Thermal Sh Limited Ten-Year Heat Exchange Full Safety Diagnostics with Faul PolyTuf Powder Coated Cabinet No Combustible Floor Shield Rec Fan-Assisted 	Temperature: 120°F anger nock Warranty er Warranty It History quired	Patent No. 7,044,124						
Patented Burner Security Blanket	Proudly Made in the U	SA						
Heat Exchanger Headers Glass-Lined Cast Iron – Standard Brass – Option A-1 ASME Inspected and Stamped 160 PSIG Working Pressure National Board Approved Fin Tubing Copper – Standard Cupro Nickel – Option A-3 ASME Steel Tube Sheet Silicone High Temp O-Rings Pressure Relief Valve, ASME 45 PSIG – Standard on Models 302BE and 402BE GO PSIG – Standard on Models 502BE-902BE PSIG – Optional Temperature and Pressure Gauge Water Connections Left – Standard Right – Option A-6 Controls 120V, 60Hz, 1∅ Power Supply 120/24V 60Hz Transformer 100% Shutoff/Lockout Hot Surface Ignition Remote Flame Sensor High Limit Control, Manual Reset On/Off Power Switch Manual Shut-Off, Front-Mounted Flow Switch Blocked Vent Pressure Switch Combustion Air Proving Switch Economaster Pump Time Delay Diagnostics Panel with LCD Display,	Gas Train Manual Gas Shut-Off Valve(s) Combo Valve(s) Firing Mode On/Off (H4): Models 302BE and 402BE 2-Stage (H3): Models 302BE - 902BE Fuel Natural Gas Propane Gas Design Certified ANSI Z21.13/ CSA 4.9 Venting Vent Location Top – Standard Rear – Option D-14 Vent Termination Cap Outdoor D-11 Indoor, Vertical (by others) Combustion Air In-Line Filter Kit (Recommended with Ducted-In Air Only) D-17 Air Intake Elbow D-16 Extractor - Optional By Others Not Required Construction Indoor/Outdoor Construction Enclosed Front Controls CSA Low Lead (≤ .25 Pb)	Ultra-Low NOx: Less than 20 PPM Temperature Controls □ B-6 Aquastat, 2-Stage (100-200°F) □ B- TempTracker Digital Controller, 2-Stage □ B- TempTracker Digital Controller, 4-Stage □ B- TempTracker Mod+ Hybrid (2-16 Boilers) □ B-60 Stage Interface Options □ C-6 Ignition Module, Manual Reset □ D-21 TruSeal® Direct Vent □ F-10 Low Water Cut-Off, Remote Probe □ I-1 High Limit Control, Auto Reset □ P- Pump: HP, 120V, 1∅, 60Hz □ Cast Iron □ Bronze □ Mounted □ Loose □ Front □ Rear □ P- Cold Water Start (See 2000.48) □ S-1 Low Gas Pressure Switch, Manual □ S-2 High Gas Pressure Switch, Manual □ X-1 SureRack™ Kit □ X-2 SureRack Add-on □ Regulatory Agency Requirements □ Regulatory Agency Requirements						



Hi Delta – Type H

Models 302BE-902BE, 87% Efficiency





Dimensions are in inches.

RATES OF FLOW AND PRESSURE DROPS

	10°F ∆T		20 °F ∆T		30°F ∆T		Min. Flow		Max. Flow			
Model	GPM	∆ P (ft)	GPM	∆ P (ft)	GPM	ΔP (ft)	GPM	∆ P (ft)	ΔT	GPM	ΔP (ft)	ΔT
302BE	52	3.4	26	<1	N/A	N/A	20	<1	26	90	9.8	6
402BE	69	5.8	35	1.5	23	<1	20	<1	35	90	10.0	8
502BE	87	9.9	44	2.5	29	1.2	22	<1	40	90	10.5	10
652BE	N/A	N/A	57	4.3	38	2.0	28	1.2	40	90	10.7	13
752BE	N/A	N/A	65	5.8	44	2.7	33	1.7	40	90	11.0	15
902BE	N/A	N/A	78	9.0	52	4.1	39	2.4	40	90	11.8	17

Basis is 20 GPM or 40 $^{\circ}\! F$ ΔT for minimum flow, 90 GPM for maximum flow.

NOTES: 1. Rates shown are for natural or propane gas, and elevations up to 4,500 feet. For installation above 4,500 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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