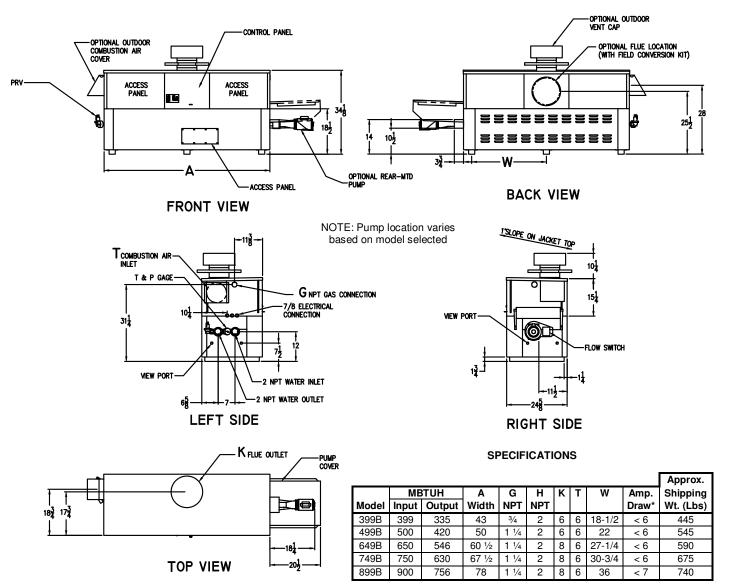
Job:	Delta	Limited™ - Type H
Engineer:		e Heating/Hot Water Boilers
Contractor:		Models 399B-899B
Prepared By: Dat	e:	
Model: Inc	door/Outdoor:	MBTUH Input:
100% Factory Fire Tested Efficiency: 84% Maximum Outlet Temperature: 230°F Minimum Non-Condensing Inlet Temp Thermal Shock Proof Heat Exchanger Limited Twenty-Year Thermal Shock V Limited Ten-Year Closed-System Heat Warranty PolyTuf Powder Coated Cabinet No Combustible Floor Shield Required Fan-Assisted Patented Burner Security Blanket	Varranty Exchanger	Shown with outdoor air inlet and pump covers Proudly Assembled in the USA
Heat Exchanger Headers Glass-Lined Cast Iron – Standard Bronze – 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 HSPIG – Standard on Model 399B FOBIG – Standard on Models 499B-899B FSIG – Optional Temperature and Pressure Gauge Water Connections Left – Standard Right – Option A-6	Gas Train Manual Gas Shut-Off Valve(s) Combination Valves Firing Mode On/Off: Model 399B 2-Stage: Models 499B-899B Fuel Natural Gas Propane Gas Design Certified - ANSI Z21.13/CSA 4.9 Burner Ultra-Low NOx: Less than 20 PPM Construction Indoor/Outdoor Construction Enclosed Front Controls CSA Low Lead Certified (≤ .25% Lead)	Temperature Controls □ B-6
Controls 120V, 60Hz, 1 Phase Power Supply 120/24V 60Hz Transformer 100% Shut-Off/Lockout Hot Surface Ignition Remote Flame Sensor High Limit Control, Manual Reset On/Off Power Switch Manual Shut-Off, Front-Mounted Switch Flow Switch Blocked Vent Pressure Switch Combustion Air Proving Switch Pump Time Delay Relay Status Display Lights	Venting ■ Vent Location □ Top, Outdoor – Standard □ Top, Indoor – Option D-20 □ Rear – Option D-14 ■ Vent Termination Cap □ Outdoor D-11 □ Indoor, Horizontal D-15 □ Indoor, Vertical (by others) ■ Extractor – Optional □ By others □ Not required Delta	☐ X-2 SureRack Add-on ☐ Regulatory Agency Requirements ☐



Catalog No.: 2000.461D Effective: 05-01-15 Replaces: 03-15-14



* Pump not included

Dimensions are in inches.

Rates shown are for natural or propane gas, and elevations up to 4,500 feet. For installation above 4,500 feet, please contact manufacturer.

Recommended natural gas supply pressure is 7 – 10.5" WC. Recommended propane gas supply pressure is 11 - 13" WC.

RATES OF FLOW AND PRESSURE DROPS

	10°F ∆T		20°F ∆T		30 °F ∆T		Min. Flow			Max. Flow		
Model	GPM	ΔP (ft)	GPM	ΔP (ft)	GPM	ΔP (ft)	GPM	ΔP (ft)	$\Delta \mathbf{T}$	GPM	ΔP (ft)	$\Delta \mathbf{T}$
399B	68	5.4	34	1.5	22	<1	20	<1	34	90	10.0	7
499B	85	9.2	42	2.3	28	1.1	21	<1	40	90	10.5	9
649B	N/A	N/A	55	4.0	36	1.8	28	1.1	40	90	10.7	12
749B	N/A	N/A	64	5.5	42	2.5	32	1.6	40	90	11.0	14
899B	N/A	N/A	76	8.5	51	3.8	38	2.2	40	90	11.8	16

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

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