HTP

EliteXL VWH
HOT WATER SUPPLY BOILER

Direct vent up to 150 feet (2,000,000 Btuh Units) and up to 125 feet (399,000 to 1,000,000 Btuh Units) using PVC, CPVC, Polypropylene or Stainless Steel

The **4 pass heat exchange**r with large internal circuits reduces pressure drop, allowing the unit to be used in variable flow system

Durable **316L stainless steel** construction pressure rated at 160 PSI bears the ASME Stamp

Combustion System - **10** to **1** turndown

7" High Resolution Touchscreen

Cascade sequencing up to **8 volume water heaters** – Redundancy of operation (no downtime) – providing a much larger turndown ratio and increasing the overall system efficiency and performance with unit runtime rotation

HTP LINK - A WiFi solution that enables remote monitoring of the appliance and system
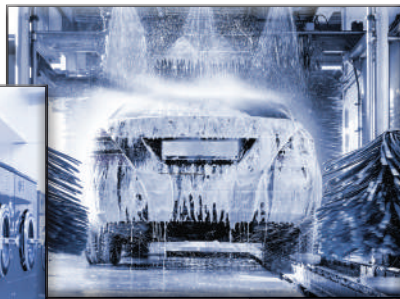
Up to 6 Inputs From 399,000 to 2,000,000 Btuh

98% Thermal Efficiency

HTP LINK

laundromat   car-wash

hotel   brewery

One of a Kind Design from the Inside, Out!

Power You Can Depend On
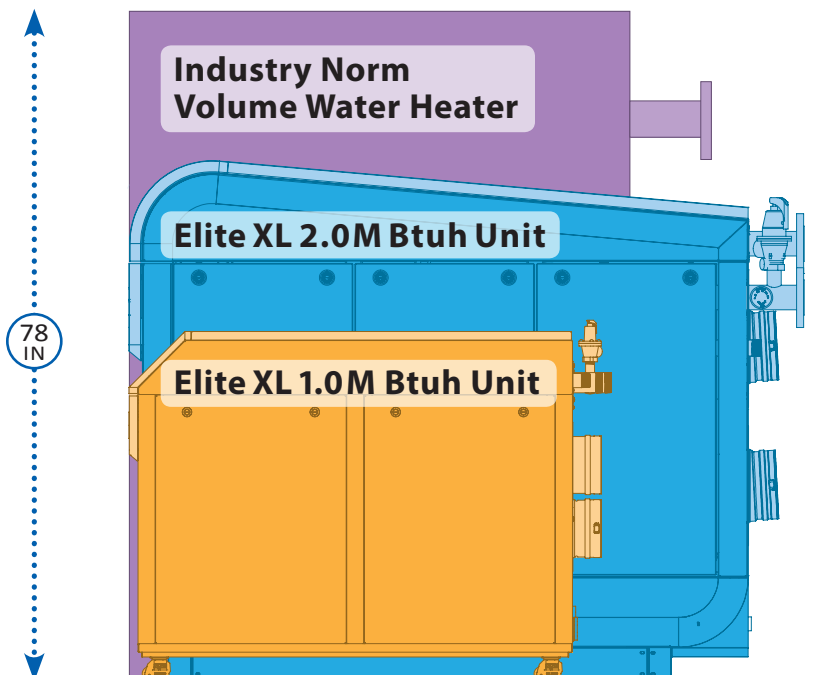
EliteXL VWH

399,000 & 500,000 Btuh

650,000 • 800,000 & 1,000,000 Btuh

2,000,000 Btuh

6 Sizes: 399,000 Btuh to 2,000,000 Btuh
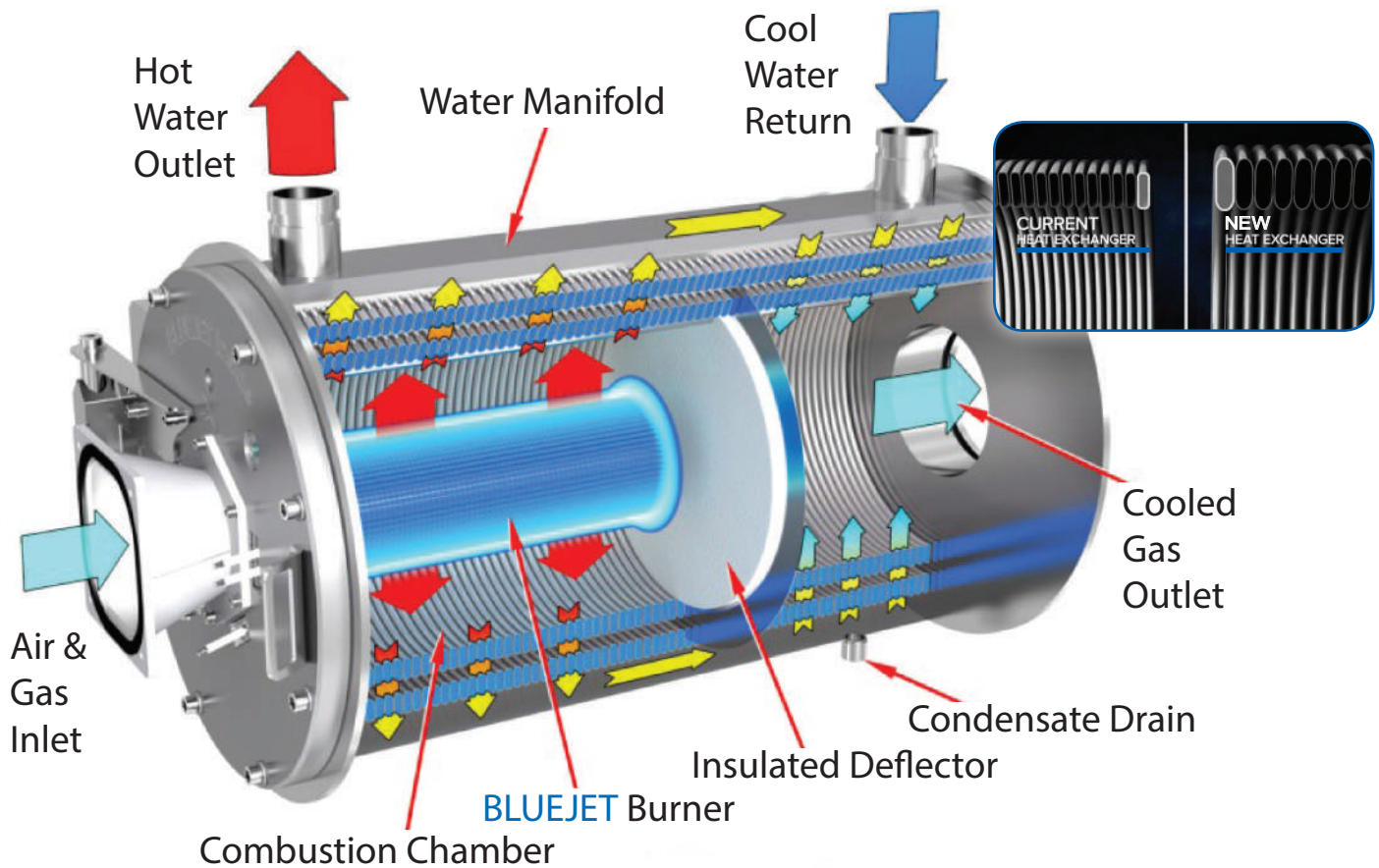
Contractor Approved Sizing!

Space should never be compromised to obtain a desired output. The HTP high efficiency Elite XL Volume Water Heater was engineered with contractor accessibility in mind. This powerful volume water heater has a 4 pass heat exchanger designed to increase heat transfer while allowing for a small footprint. Compared with the industry norm, the Elite XL's size advantage makes installation in smaller spaces a reality.

Industry Norm Volume Water Heater

Elite XL 2.0 M Btuh Unit

Elite XL 1.0 M Btuh Unit

78 IN

The Industry Norm VS Our 2 Million Btuh Unit VS Our 1 Million Btuh Unit

Elite XL VWH   A CLOSER LOOK

Hot Water Outlet

Water Manifold

Cool Water Return

CURRENT HEAT EXCHANGER

NEW HEAT EXCHANGER

Cooled Gas Outlet

Air & Gas Inlet

Condensate Drain

Insulated Deflector

BLUEJET Burner

Combustion Chamber
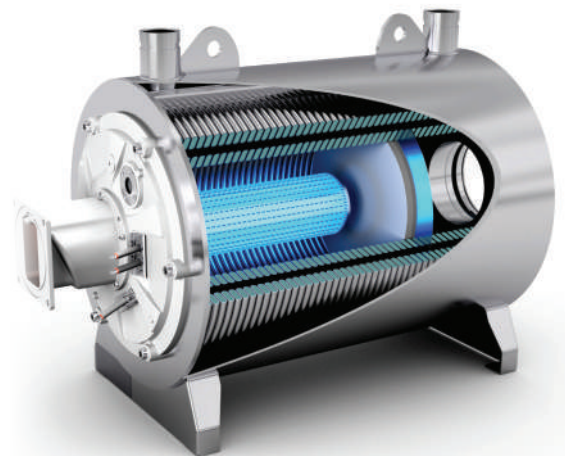
Why BLUEJET?

Patented Blue Jet Combustion burner technology, low NOX operation and a unique design provide a uniform stable flame for years of trouble-free operation, while avoiding clogging and hot spots normally seen on other premix burners.

- Highest Quality Stainless Steel Heat Exchanger
- The Highly Efficient 4 Pass Heat Exchanger Design Multiplies the Heat Transfer
- Reduced Pressure Drop Allows for Small Pumps, Reducing Installation Costs

Elite XL VWH — A LOOK INSIDE

1 — **The 4 Pass Heat Exchanger Design Multiplies the Heat Transfer:**

1a - The domestic heating fluid-return makes the **1st** pass, heating up, in the inner stainless steel tubes of the condensing chamber.

1b - The domestic heating fluid makes the **2nd** pass, picking up even more heat in the outer-tubes of the exhaust chamber.

1c - The domestic heating fluid makes the **3rd** pass, multiplying the heat in the outer-tubes of the burner chamber.

1d - The domestic heating fluid makes the **4th** and final pass, on the domestic supply, maximizing the heat in the inner-tubes of the burner chamber.

2 Burner Sight Glass

3 Domestic Return

4 Domestic Supply

5 Condensate Drain

MAKING SERVICEABILITY EASIER

Our talented team of design engineers oversaw every aspect of the Elite XL including the combustion assembly with a unique hinged sliding door, which is ideal for complete access when maintenance is necessary (2 mil Btuh). In 3 easy steps the combustion assembly is accessible. Simply slide, swing and secure.

Featuring Removable Side & Front Panels
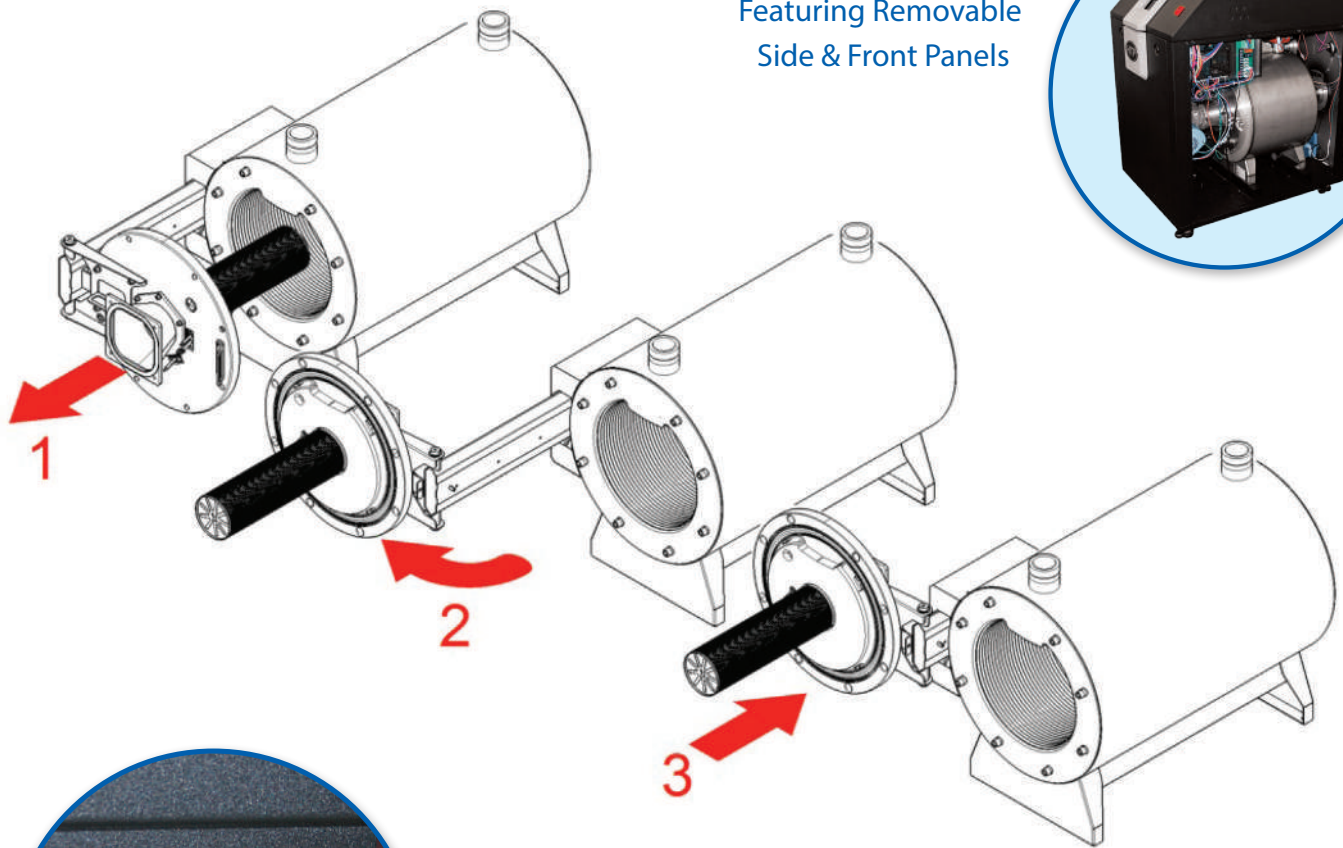
1. Slide 2. Swing 3. Secure

Moves Easily

Footmaster wheels on the 399K - 1,000K models eases moving the VWH and locking it in place

HTPL:NK

## Multiple Platforms on the Cloud

Internal

FLUE	Lock Temp. 212°F 132°F
Supply	Max Temp. 194°F 170°F
Delta T	20°F
Return	150°F

CH ● Demand ○ DHW

RUNNING
- Command: Heat 22
- Run Time: 525 days & 23 Minutes
- Blocking: None
- Lockout: None

Flame Current 6uA
Min. Flame Current 1uA

Setpoint: 180°F

Modulation: 80%

External

Outdoor Temperature
33°F

System Supply Temperature
112°F

DHW Temperature

Technical Support

Remotely link to a factory technician to assist in system monitoring, troubleshooting and overall system efficiency.
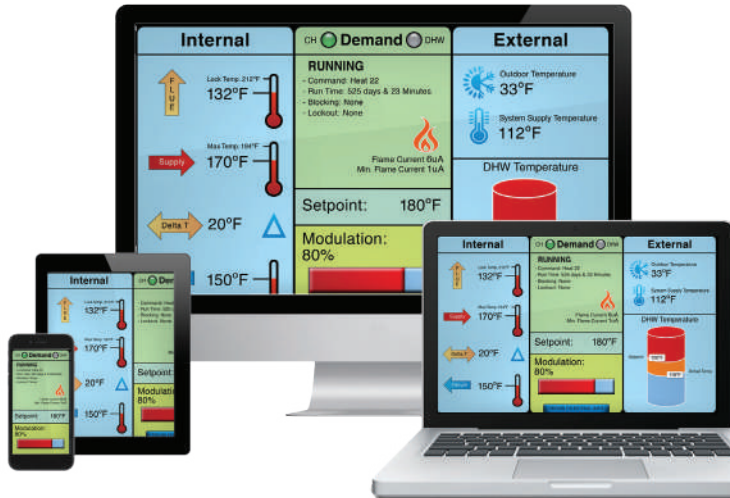
Building / Property Manager

Remotely link to monitor multiple units in multiple locations. Get text and email alerts to critical system events such as faults. Continuous system monitoring optimizes system performance and efficiency.
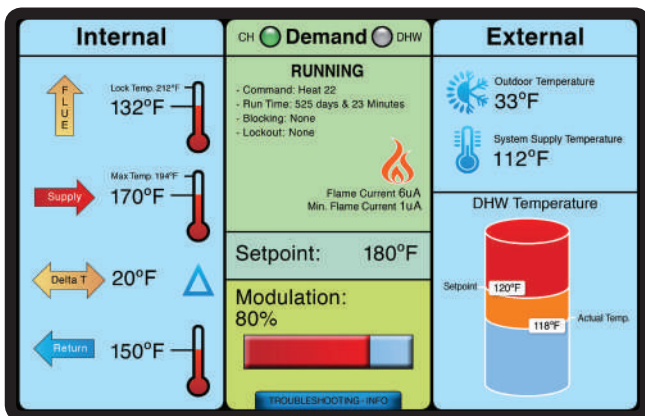
Contractor / Maintenance

Receive text and email notifications and remotely link to assist the customer with system issues. Get key information to quickly and efficiently troubleshoot before arriving on the job.

The HTP Link Touch Display
Take Total Control of Your Heating System

Internal

FLUE	Lock Temp. 212°F 132°F
Supply	Max Temp. 194°F 170°F
Delta T	20°F
Return	150°F

CH ● Demand ○ DHW

RUNNING
- Command: Heat 22
- Run Time: 525 days & 23 Minutes
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Flame Current 6uA
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Setpoint: 180°F

Modulation: 80%

TROUBLESHOOTING · INFO

External

Outdoor Temperature
33°F

System Supply Temperature
112°F

DHW Temperature

Setpoint 120°F
118°F Actual Temp.

Each Elite XL comes with a **High Resolution 7" Touchscreen**

THE TOUCHSCREEN DISPLAY

7" High Resolution color touchscreen display provides clear visual monitoring of the unit's parameters and programing to maximize the efficiency of the unit. Display screen color will change to help clearly identify the status of the unit, making monitoring and trouble-shooting easy.

Stand-By/Running (Green Color)
Fault (Red Color)
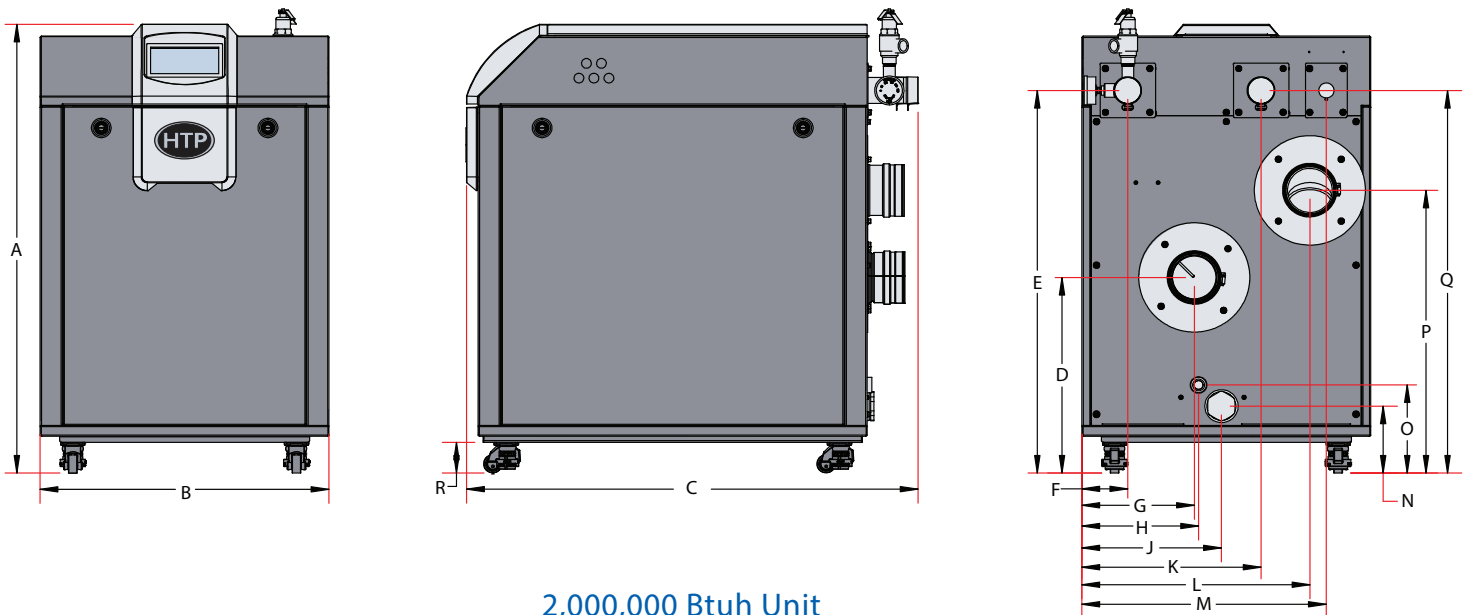**Blocking Code (Yellow Color)**

Model Number	Input Max (MBH)	Input Min (MBH)	Turndown	TE %	Water Pressure Drop (Ft-Hd)/Flow (GPM)		
					40 F ΔT	30 F ΔT	20 F ΔT
EXL-400FVWHN	399	39.9	10:1	98	4 Ft @ 19 GPM	7.2 Ft @ 26 GPM	12 Ft @ 39 GPM
EXL-500FVWHN	500	50	10:1	98	3.2 Ft @ 24 GPM	5.4 Ft @ 32 GPM	11.4 Ft @ 48 GPM
EXL-650FVWHN	650	65	10:1	98	4 Ft @ 31 GPM	6.2 Ft @ 42 GPM	11.5 Ft @ 63 GPM
EXL-800FVWHN	800	80	10:1	98	3 Ft @ 39 GPM	6 Ft @ 52 GPM	12 Ft @ 77 GPM
EXL-1000FVWHN	1000	100	10:1	98	4.7 Ft @ 48 GPM	7 Ft @ 64 GPM	14 Ft @ 96 GPM
EXL-2000FVWHN	2000	200	10:1	98	6.7 Ft @100 GPM	11.5 Ft @ 133 GPM	21 Ft @ 200 GPM

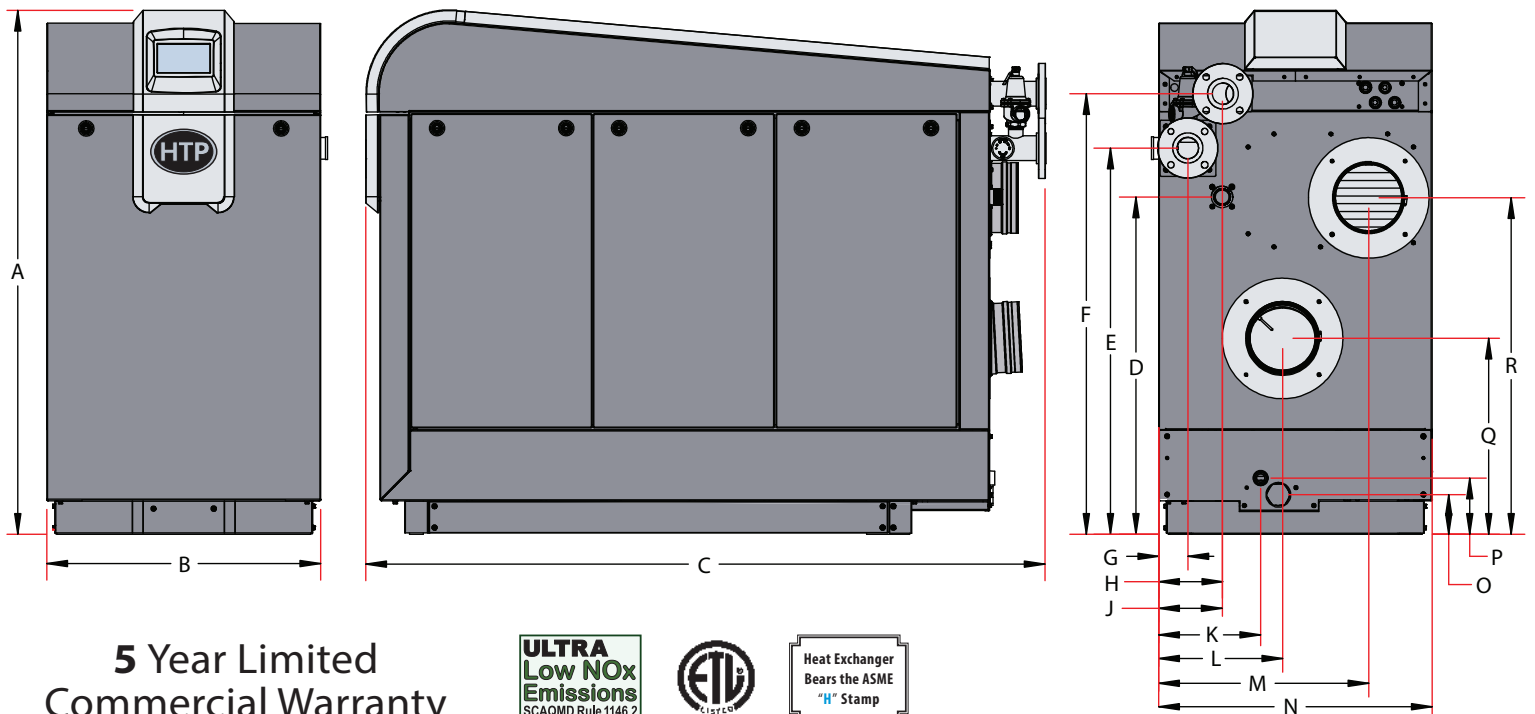| Model		EXL-400FVWHN	EXL-500FVWHN	EXL-650FVWHN	EXL-800FVWHN	EXL-1000FVWHN	EXL-2000FVWHN
Installation		Indoor, Floor Standing, Fully Condensing					
Minimum / Maximum Input (Btu/Hr)		39,900 / 399,000	50,000 / 500,000	65,000 / 650,000	80,000 / 800,000	100,000 / 1,000,000	200,000 / 2,000,000
Heating Capacity (MBH)		387	485	630	776	970	1,940
Flue System		Category IV, Sealed Combustion Direct Vent, Power Vent					
Minimum Combined Vent Run		10 feet					15 feet
Maximum Combined Vent Run		4" (125 feet)		6" (125 feet)			8" (150 feet)
Approved Exhaust Vent Materials		PVC, CPVC, PP, Stainless Steel					
Packaging Dimensions (in Inches)	W	32.25					43.25
	H	49.625					64.25
	D	48		64			86
Shipping Weight (lbs)		538	545	680	700	745	1750
Gas Supply Pressure		3.5" to 14" WC (NG or LP)					3.5" to 10.5" WC (NG ONLY)
Manifold Pressure	Min / Max	NG/LP: -0.08" WC					NG: -0.07" WC
Power Supply		120V 60 Hz, 6.3A					208/3PH WYE, 60Hz, 10A/Leg
Customer Connection Board Fuse Amperage Ratings		2 Amps					5 Amps
General Operating Conditions		Ambient Temperature Range: 33 – 104°F (0.6 – 40°C) Product Approvals and Requirements: ANSI Z21.13 / CSA 4.9, CSD-1 ASME Code					
Ignition System		Direct Electronic Spark Ignition / Flame Rectification					
Burner System		Premixed Fuel Modulation / Stainless Steel Burner					
Gas Valve System		Pneumatic Gas Valve					Electronic Gas Valve
Dimensions (in Inches)	W	26					31.8
	H	41					60.8
	D	40.7		56.5			79
VWH Water Content (Gallons)		3.8	4.3	5.6	6.6	8.1	16.25
Minimum Flow Rate @ 20°F ΔT at Low Fire (GPM)		4	5	6.5	8	10	9
DHW Setpoint Temperature Range		70 – 185°F					
Water Pressure (PSI)	Heat Exchanger MAWP	160					
	Temperature & Pressure Relief Valve	Temperature: / Pressure: 150					
Connection Sizes	Supply / Return	2" NPT					2 1/2" Flange
	Gas Inlet	1" NPT		1 1/4" NPT			2" NPT
Materials	Cabinet	Powder Coated Galvaneal Steel					
	Heat Exchanger	316L Stainless Steel Water Tube					
Safety Devices		Flame Rectifier Probe, Dual Water Supply Temperature Sensor / High Limit (210oF), Freeze Protection, Condensate Trap with Float, Dual Flue Sensor (210oF), Blocked Vent Pressure Switch, Internal UL 353 Approved Low Water Cut-Off (LWCO), High Resolution Flow Switch					

Model	Water Connection		Vent Size	Air Intake	Gas Connection	Condensate
400 - 500	2" NPT		4"	4"	1"	3/4" PVC
650			6"	6"	1"	
800 - 1000					1-1/4"	
2000	2 1/2" Flange		8"	8"	2"	1" PVC

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R
ELX400-500	41.0	26.0	40.7	17.9	35.0	4.1	10.1	10.5	12.6	16.1	20.5	22.0	6.1	8.1	25.8	35.0	2.8*
ELX650-1000			56.5														
ELX2000	60.8	31.8	79.0	39.2	44.8	51.2	3.4	7.4	7.5	11.9	14.4	24.4	31.8	4.6	6.5	22.7	39.1

399,000 to 1,000,000 Btuh Units

2,000,000 Btuh Unit

5 Year Limited Commercial Warranty

ULTRA Low NOx Emissions
SCAQMD Rule 1146.2

ETL Listed

Heat Exchanger Bears the ASME "H" Stamp