



**Elite XL Commercial VWH (Volume Water Heater) Submittal
(ELX-400FVWHN / 500 / 650 / 800 / 1000 / 1500 / 2000)**

JOB NAME:

LOCATION:

ARCH./ENGR.:

WHOLESALE:

MECH. CONTRACTOR:

MODEL NUMBER:

TYPE OF GAS:

BTU/HR INPUT LOW – HIGH FIRE:

NOTES:

Heat Exchanger

- All Stainless Steel 160 PSI ASME stamped construction. National Board listed
- Gasketless heat exchanger design
- ASME 150 PSI relief valve
- Front service access to combustion chamber and burner

Combustion System

- Modulating burner with up to 10 to 1 turndown
- Up to 98% thermal efficiency
- High-Grade stainless-steel burner design
- Spark ignition with high capacity transformer for reliable ignition
- 400 – 1000 Models - Natural or LP Gas Operation; 1500 - 2000 Models – Natural Gas Operation Only
- Flame monitoring (Flame probe)
- Pneumatic Gas Valve System
- Gas Valve pressure range 3 ½” minimum to 14” maximum Water Column - 400 – 1000 models; 3 ½” minimum to 10.5” maximum WC – 1500 - 2000 models

Integrated Control System

- 928 Digital operating control with full color touch screen display
- Wifi embedded in the control system standard on all models
- Fault indicators for DHW Pump – System Fault – System Operation – Freeze Protection – Flame On – Fault Indication
- On/Off Switch
- Password protected
- Multiple 120-volt pump outputs – DHW pump
- 0-10 VDC input from a building management system
- VWH output regulation (adjustment of VWH output down to 10% of rated capacity)
- Field wiring connection board / Cascade wiring CAT 3 or 5
- Dry contact for alarm output
- Cascade up to eight (8) VWHs
- Return temperature sensor

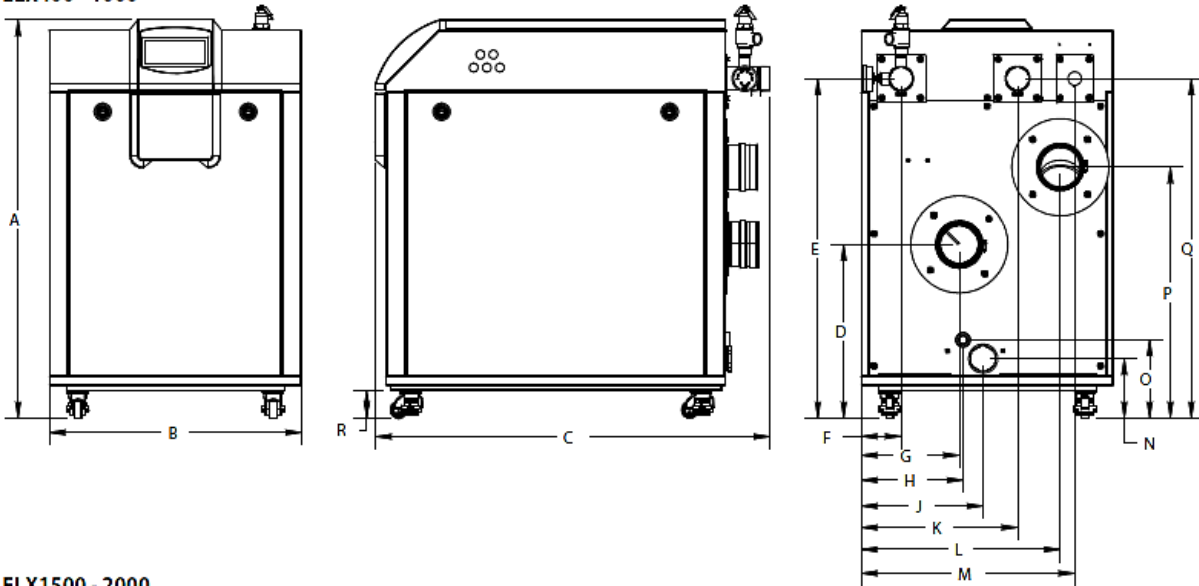
Additional Features

- Superior condensate collection system with float switch and 2 inch clean out
- Five (5) year limited warranty
- High resolution flow switch to ensure minimum flow rates through the heat exchanger (All Models)
- Vents in PVC - CPVC - stainless steel – polypropylene
- Integrated UL 353 certified CSD-1 compliant low water cut-off with manual reset
- Dual Water Supply Temperature Sensor / High Limit (210°F)
- Caster wheel with adjustable leveling pads (400 – 1000 Models)
- Flue High temperature limit with Manual reset
- Blocked vent pressure switch
- Pressure and temperature gauge
- Low NOx emissions – SCAQMD Certified

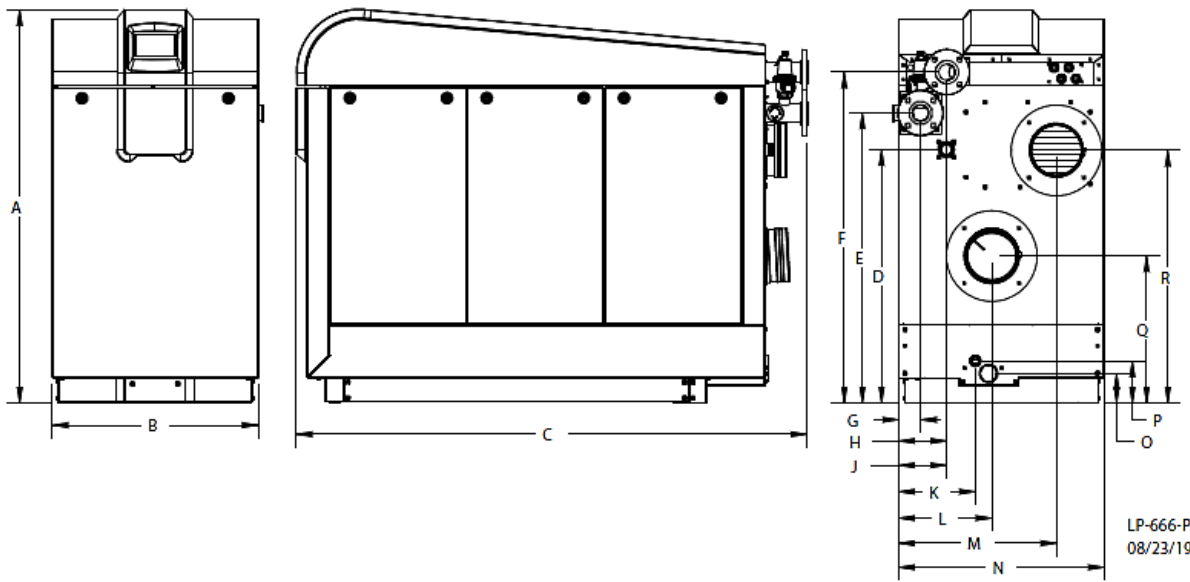
Optional Equipment

- Indirect Tank Sensor (Part # 7250P-325)
- System Sensor (7250P-324)
- 4” Stainless Steel Outside Termination Vent Kit (V2000)
- 6” Stainless Steel Outside Termination Vent Kit (V3000)
- 8” Stainless Steel Elbow (7550P-067)
- 8” Stainless Steel to PVC / CPVC Vent Pipe Adapter (7550P-064)
- High and Low Gas Pressure Switch Kit with Manual Reset 650 – 2000 Model (6300P-991); 500 Model (7550P-999)
- Alarm System to monitor any failure (7350P-602)
- Condensate Neutralizer (7350P-611)
- Modbus / BACnet (7350P-636)
- Mechanical Manual Reset High Temperature Limit (6300P-998)
- 928 PC Connection Kit (7450P-330)

ELX400 - 1000



ELX1500 - 2000



LP-666-P
08/23/19

400 - 2000 Model Dimensions

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														
ELX1500	60.8	31.8	66.5	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
ELX2000			79.0														

MODEL	SUPPLY / RETURN CONNECTION	VENT SIZE	AIR INTAKE	GAS CONNECTION	CONDENSATE
400	2" NPT	4"	4"	1"	3/4" PVC
500					
650		6"	6"	1-1/4"	
800					
1000	2 1/2" Flange	8"	8"	1-1/2"	
1500				2"	
2000					

400 – 2000 Model Dimensions and Specifications - *NOTE: All dimensions are approximate - *FOR REFERENCE ONLY

MODEL		400	500	650	800	1000	1500	2000	
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	150,000 / 1,500,000	200,000 / 2000,000	
Heating Capacity		391	490	637	784	980	1,470	1,960	
Flue System		Category IV, Sealed Combustion Direct Vent, Power Vent							
Min Combined Vent Run		10 feet					15 feet		
Max 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			76	86	
Shipping Weight (lbs)		538	545	680	700	745	1400	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					-0.07" WC		
Power Supply		120V, 60Hz, 6.3A						208/3PH, 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 and 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							
Dimensions (in Inches)	W	26					31.8		
	H	41					60.8		
	D	40.7		56.5			66.5	79	
VWH Water Content (Gallons)		3.8	4.3	5.6	6.6	8.1	12.9	16.25	
Minimum Flow Rate @ 20°F ΔT at Low Fire (GPM)		4	5	6.5	8	10	15	20	
Flow Switch Activation (GPM)		4					9		
DHW Setpoint Temperature Range		70-185°F							
Water Pressure (PSI)	Heat Exchanger MAWP	160							
	Relief Valve	Temperature: 210F / Pressure: 150							
Control Panel		7" Full Color Touch Screen							
Main Controller		928 SIT Control							
Connection Sizes	Supply / Return	2" NPT					2 ½" Flange		
	Gas Inlet	1" NPT		1 ¼" NPT			1 ½" NPT	2" NPT	
Materials	Cabinet	Powder Coated Galvanneal Steel							
	Heat Exchanger	316L Stainless Steel Water Tube							
Safety Devices		Flame Rectifier Probe, Dual Water Supply Temperature Sensor / High Limit (210°F), Freeze Protection, Condensate Trap with Float, Dual Flue Sensor (210°F), Blocked Vent Pressure Switch, High resolution flow switch, Internal UL 353 Approved Low Water Cut-off (LWCO), Optional temperature high limit							

400 – 2000 Model Technical Specifications

NOTE: HTP reserves the right to make product changes or updates without notice and will not be held liable for typographical errors in literature.