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Elite XL Commercial Condensing Heating Boiler Submittal

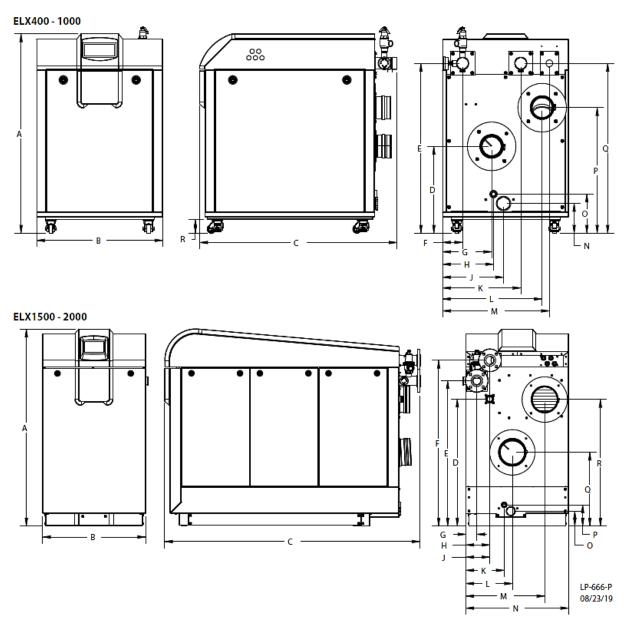
(ELX-400FBN / 500	/ 650 / 800 / 1000 / 1500 / 2000)
JOB NAME:	
LOCATION:	
ARCH./ENGR.:	
WHOLESALER:	
MECH. CONTRACTOR:	
MODEL NUMBER: TYPE OF GAS:	BTU/HR INPUT LOW – HIGH FIRE:
NOTES:	
 316L Stainless Steel Water Tube 160 PSI ASME stamped construction. National Board listed Gasketless heat exchanger design ASME 50 PSI relief valve Front service access to combustion chamber and burner Modulating burner with up to 10 to 1 turndown Up to 97% thermal efficiency High-Grade stainless-steel burner design Reliable spark ignition with high capacity transformer 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 	Additional Features Superior condensate collection system with float switch and 2 inch clean out Ten (10) 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)
 Integrated Control System 928 Digital operating control with color touchscreen display Embedded Wi-Fi control standard on all models Fault indicators for System Pump – Boiler Pump – DHW Pump – System Fault – System Operation – Freeze Protection – Flame On – Fault Indication On/Off Switch Password protected Outdoor reset with indirect priority – An outdoor sensor is supplied with the boiler Multiple 120-volt pump outputs – boiler pump – system pump – DHW pump 0-10 VDC input from a building management system 0-10V output A allows offers variable speed pump support, which controls pump speed via an analog VDC signal 0-10V output B relates to one of the following values: boiler or cascade power, fan speed, alarm status, temperature based on outdoor reset curve, or flame 	 □ 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 500 Model (7550P-999); 650 – 2000 Model (7550P-988) □ Alarm System to monitor any failure (7350P-602) □ Condensate Neutralizer (7350P-611)
 Boiler output regulation (adjustment of boiler 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 8 boilers Return temperature sensor ☐ Mechanical Manual Reset High Temperature Limit (6300P-998)

928 PC Connection Kit (7450P-330)



400 - 2000 Model Dimensions

MODEL#	Α	В	С	D	E	F	G	н	J	К	L	М	N	0	Р	Q	R	
ELX-400-500	41.0	0 26.0	40.7	17.9 3	35.0	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*	
ELX-650-1000	41.0		41.0 20.0	56.5	17.9	33.0	4.1	10.1	10.5	12.0	10.1	20.5	22.0	0.1	0.1	25.8	33.0	2.6
ELX-1500	- 60.8	- 60.8 31.8	21.0	66.5	39.2	44.8	51.2	3.4	7.4	7.5	11.9	14.4	24.4	21 0	4.6	6.5	22.7	20.1
ELX-2000			31.8	79.0	39.2	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

MODEL	SUPPLY / RETURN CONNECTION	VENT SIZE	AIR INTAKE	GAS CONNECTION	CONDENSATE	
400		4"	4"			
500		4	4	1"	3/4" PVC	
650	2" NPT	6"				
800			6"	1 1/4"		
1000				1-1/4"		
1500	2 4 11 5	0"	0"	1-1/2"		
2000	2 ½" Flange	8″	8″	2"		

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

МС	ODEL	400	500	650	800	1000	1500	2000				
Insta	allation	Indoor, Floor Standing, Fully Condensing										
	Maximum Input tu/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	g Capacity	387	485	630	776	970	1,455	1,940				
Flue	System			Category IV, Seale	d Combustion Direc	t Vent, Power Vent						
Min Combi	ned Vent Run		15	feet								
Max Combi	ined Vent Run	4" (125 feet) 6" (125 feet) 8'										
	Exhaust Vent terials	PVC, CPVC, PP, Stainless Steel										
Packaging	w			32.25			4.	43.25				
Dimensions	Н		6	64.25								
(in Inches)	D		48		64		76 86					
Shipping	Weight (lbs)	538	545	5 680 700		745	1400	1750				
Gas Supp	oly Pressure			10.5" WC ONLY)								
Manifold Pressure	Min/Max	NG/LP: -0.08" WC -0										
Powe	r Supply			208/3PH, 60HZ, 10A/Leg								
	onnection Board erage Ratings	2 Amps										
General Opera	ating Conditions		SME Code									
Ignitio	n System			Direct Electron	ic Spark Ignition/Fla	me Rectification						
Burne	r System	Premixed Fuel Modulation/Stainless Steel Burner										
Gas Val	ve System	Pneumatic Gas Valve										
Dimensions	W	26										
(in Inches)	Н			60.8								
	D		40.7		56.5	T	66.5	79				
	Content (Gallons)	3.8	4.3	5.6	6.6	8.1	12.9	16.25				
	v Rate @ 20 ⁰ F ∆T Fire (GPM)	4	5	6.5	8	10	15	20				
Flow Switch A	Activation (GPM)	4 9										
	int Temperature ange	50-190°F / 32-190°F (with Outdoor Reset Curve)										
	rect Setpoint sture Range	70-185°F										
Water Pressure	Heat Exchanger MAWP	160										
(PSI)	Relief Valve											
	ol Panel	7" Full Color Touch Screen										
	Controller	928 SIT Control 2" NPT 2 ½"										
Connection Sizes	Supply / Return Gas Inlet		2 ½" 1 ½" NPT	Flange 2" NPT								
SIZES	Cabinet	1" NPT 1 ½" NPT 1 ½" NPT 1 ½" NPT										
Materials	Heat Exchanger	316L Stainless Steel Water Tube										
Safety	Devices			r Supply Temperature I Vent Pressure Switc	e Sensor / High Limit	(210°F), Freeze Protec ow switch, Internal UL						