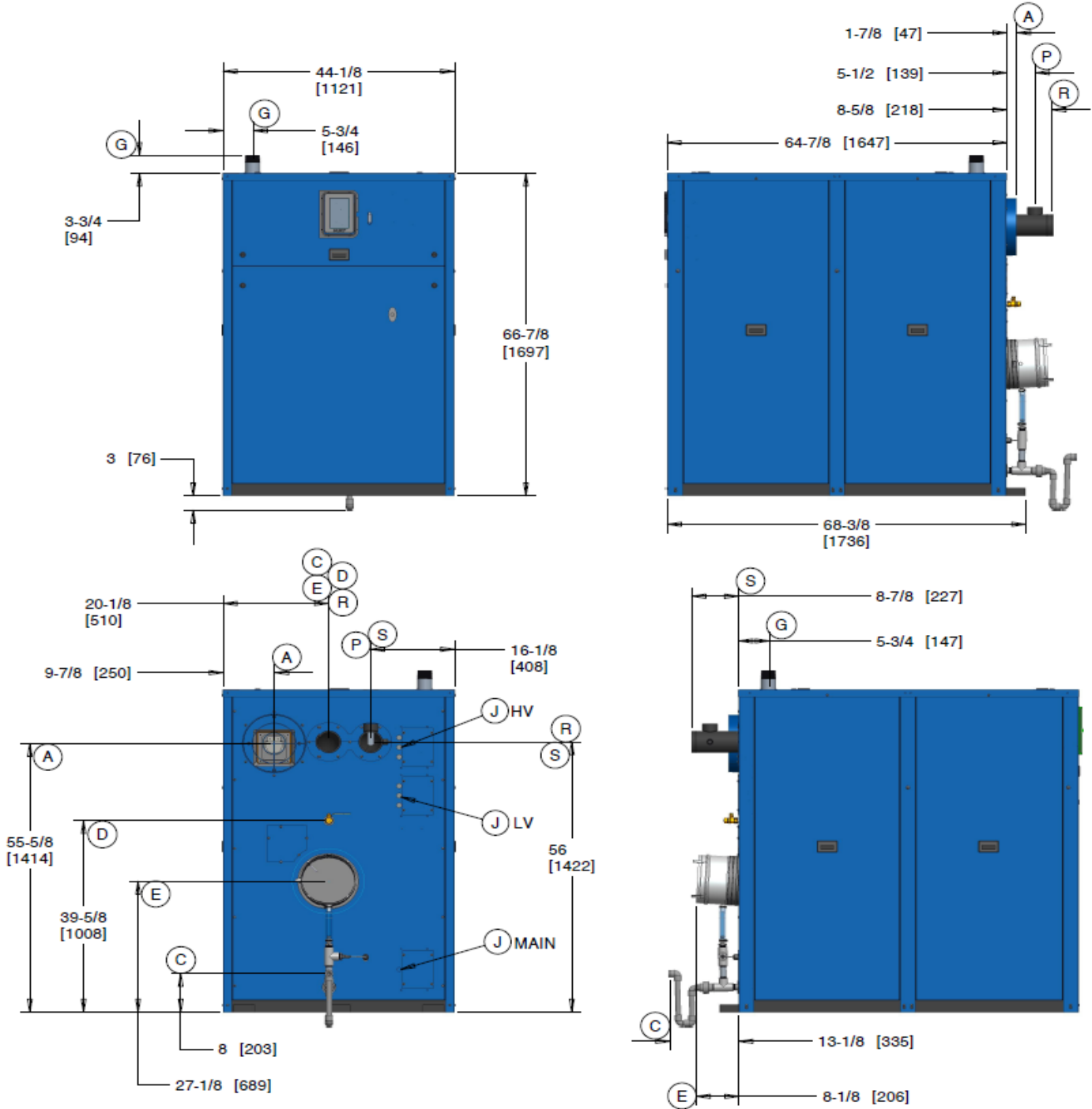


Rep Name: _____
Phone Number: _____

Email: _____
Date: _____ / _____ / _____

ST-2500 & ST-3000

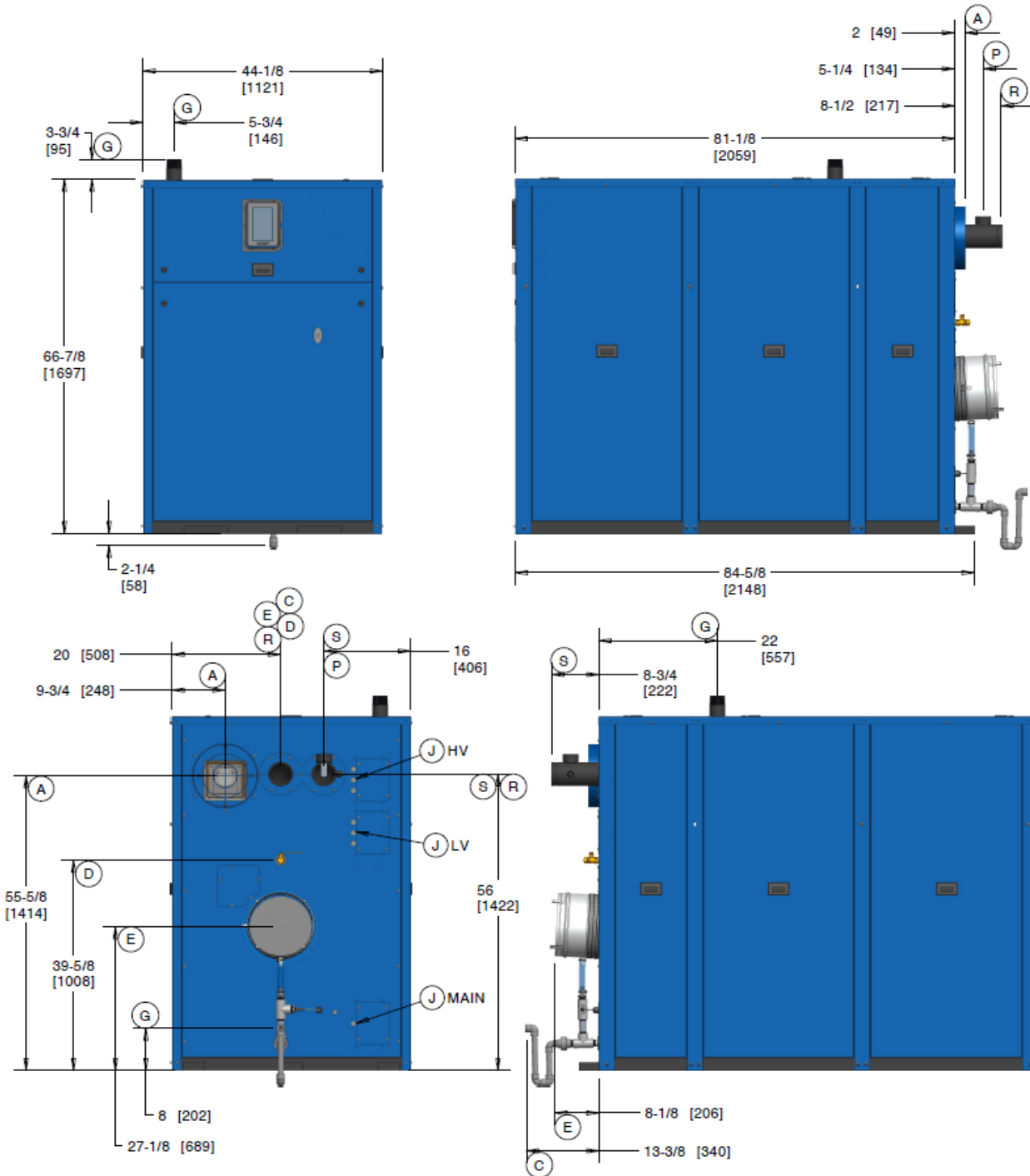


Primary dimensions are in inches. The secondary dimensions, [in brackets], are in millimeters.

This boiler requires Category IV venting (condensing-positive pressure) or Category II venting[†] (condensing -negative pressure as defined in ANSI Z223.1/NFPA 54/CSA-B.149 latest edition).

[†]Category II venting must include the optional combustion air damper

ST-3500 & ST-4000



Primary dimensions are in inches. The secondary dimensions, [in brackets], are in millimeters.

This boiler requires Category IV venting (condensing-positive pressure) or Category II venting[†] (condensing -negative pressure as defined in ANSI Z223.1/NFPA 54/CSA-B.149 latest edition.

[†]Category II venting must include the optional combustion air damper

BOILER CONNECTIONS		
A	Combustion Air Inlet	12" dia. stub
C	Condensate Drain	3/4" hose
E	Exhaust Vent	10" dia. (2500-3000) 12" dia. (3500-4000)
G	Natural Gas	2" NPT-F
J	Wiring Junction Boxes	inside cabinet
P	Pressure Relief Valve	see list for options
R†	Boiler Return, Victaulic® clamp	4" pipe, grooved
S†	Boiler Supply, Victaulic clamp	4" pipe, grooved
	Anchor Bolt Locations	(4) 9/16" Bolt Holes (2 inside cabinet)

BOILER CONTROLS
ASME CSD-1 is standard
Complies with: GE GAP (IRI) guidelines GAP.4.1.0 and GAP.4.1.3 FM Global 6-4 Section 1.0
Main Gas Train with Dual Shut-off
Integrated Boiler Control, NURO Series
Operating Thermostat, 42°-195°F (5.6°-91°C)
High Limit Thermostat, Manual Reset, 100°-197°F (38°-92°C)
High Exhaust Back Pressure Switch
LWCO/Flow Switch, Paddle Type & LWCO, Probe Type
Combustion Air Proving Switch, Differential Pressure Type
Combustion Blower, Variable Speed, 1625 Watt

A.S.M.E. SECTION IV DESIGN DATA	ST-2500	ST-3000	ST-3500	ST-4000
Max Pressure	160 PSIG			
Max Allowable Temperature	210°F			
Max Operating Temperature	200°F			
Heated Wet Surface Area	277.23 ft ²	277.23 ft ²	371.25 ft ²	371.25 ft ²
Flow Rate @ 20°FΔT	242.5GPM	291 GPM	339.5 GPM	388 GPM
Min Flow Rate @ All Firing Rates (Flow Switch Setting)	83 GPM	83 GPM	117 GPM	117 GPM

MODEL SELECTION				
Boilers	<input type="checkbox"/> ST-2500	<input type="checkbox"/> ST-3000	<input type="checkbox"/> ST-3500	<input type="checkbox"/> ST-4000
Fuel Options	<input type="checkbox"/> NG			
Min Inlet Gas Pressure	3.5" w.c.			
Max Inlet Gas Pressure	14" w.c.			
Max Input (BTU/hr)	2,500,000	3,000,000	3,500,000	4,000,000
Max Output (BTU/hr)	2,425,000	2,910,000	3,395,000	3,880,000
Boiler HP	72	87	101	116
Min Input (BTU/hr)	250,000	300,000	350,000	400,000
Min Output (BTU/hr)	242,500	291,000	339,500	388,000
Turndown Ratio	10:1			
Operating Weight	2329 lbs.	2329 lbs.	2772 lbs.	2772 lbs.
Shipping Weight	2200 lbs.	2200 lbs.	2600 lbs.	2600 lbs.
Boiler Water Content	27 gal	27 gal	35 gal	35 gal
Shipping Dimensions	79"x48"x75-5/8" (LxWxH)		95"x48"x75-5/8" (LxWxH)	
Power Supply	<input type="checkbox"/> 208-240V 3ph 60Hz		<input type="checkbox"/> 440-480V 3ph 60Hz	
Operating Current	20 Amps (240V)		10 Amps (480V)	
Recommended Minimum Circuit Capacity	20 Amps (240V)		10 Amps (480V)	

PRESSURE RELIEF VALVE/PRESSURE-TEMPERATURE GAUGE		
<input type="checkbox"/>	30 PSIG 1-1/2"x 2"	15-160 psi/0-250°F
<input type="checkbox"/>	60 PSIG 1-1/4"x 1-1/4"	15-160 psi/0-250°F
<input type="checkbox"/>	75 PSIG 1-1/4"x 1-1/4"	15-160 psi/0-250°F
<input type="checkbox"/>	80 PSIG 1-1/4"x 1-1/4"	15-160 psi/0-250°F
<input type="checkbox"/>	100 PSIG 1"x 1-1/4"	15-160 psi/0-250°F
<input type="checkbox"/>	125 PSIG 1"x 1"	15-160 psi/0-250°F
<input type="checkbox"/>	150 PSIG 1"x 1"	15-160 psi/0-250°F

RECOMMENDED CLEARANCE FOR SERVICE ACCESS				
Front - 36"	Rear - 18"	Top - 24"	Left Side - 24"	Right Side - 6"

Notes:

- Victaulic is a registered trademark of Victaulic Company, Easton PA, USA
- Patterson-Kelley reserves the right to make changes at any time without notification