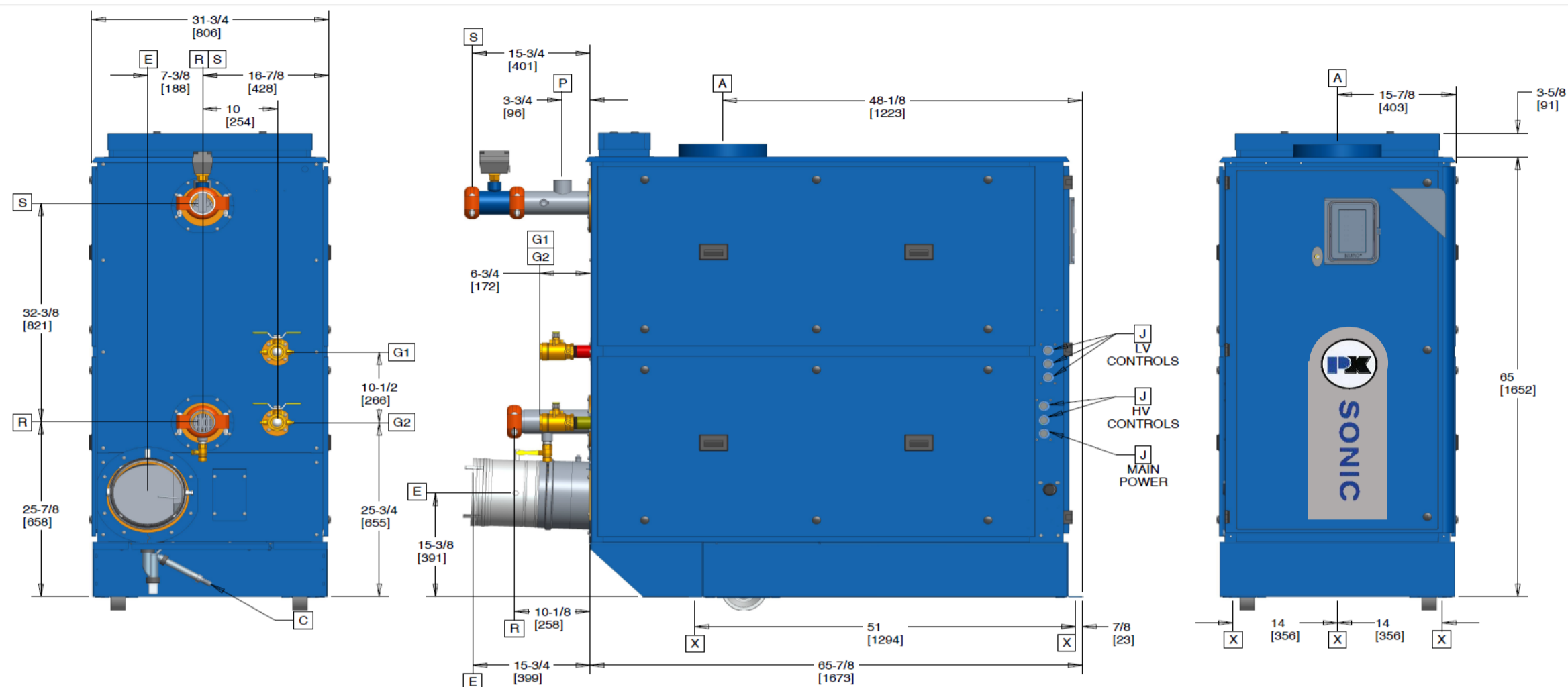


Rep Name: \_\_\_\_\_

Email: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_



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

This SONIC 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"
G1	Propane Gas	1-1/2" NPT-F
G2	Natural Gas	1-1/2" NPT-F
J	Wiring Junction Boxes	inside cabinet
P	Pressure Relief Valve	see list for options
R	Boiler Return, Victaulic® clamp	3" pipe, grooved
S	Boiler Supply, Victaulic clamp	3" pipe, grooved
X	Anchor Bolt Locations	(6) 9/16" Bolt Holes

MODEL SELECTION			
Boilers	<input type="checkbox"/> SC-1500	<input type="checkbox"/> SC-2000	
Fuel Options	<input type="checkbox"/> DUAL FUEL		<input type="checkbox"/> DUAL FUEL
	<input type="checkbox"/> NG	<input type="checkbox"/> LP	<input type="checkbox"/> NG <input type="checkbox"/> LP
Min Inlet Gas Pressure	3.5"w.c. for NG and 7.0" w.c. for LP		4"w.c. for NG and 7.0" w.c. for LP
Max Inlet Gas Pressure	14" w.c.		
Max Input (BTU/hr)	1,500,000	2,000,000	
Max Output (BTU/hr)	1,456,000	1,928,000	
Boiler HP	43.5	57.4	
Min Input (BTU/hr)	291,000	384,000	
Turndown Ratio	5:1	5:1	
Estimated Operating/Shipping Weight †	1450* lbs.		
Boiler Water Content	23.9 Gallons		
Shipping Dimensions	36"x84"x80" (LxWxH)		
Power Supply	208/240V 1ph 60 Hz		
Operating Current	< 15 Amps		
Recommended Minimum Circuit Capacity	15 Amps		

†Add 100 lbs. to the listed values when considering a dual fuel models

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, 890 Watt	

PRESSURE RELIEF VALVE/PRESSURE-TEMPERATURE GAUGE	
Shipped Loose for Field Installation	
<input type="checkbox"/> 30 PSIG 1-1/4"x 1-1/4"	0-100 psi/30-240°F
<input type="checkbox"/> 50 PSIG 1"x 1-1/4"	0-100 psi/30-240°F
<input type="checkbox"/> 60 PSIG 1"x 1"	0-100 psi/30-240°F
<input type="checkbox"/> 75 PSIG 1"x 1"	0-240 psi/30-240°F
<input type="checkbox"/> 80 PSIG 3/4"x 1"	0-240 psi/30-240°F
<input type="checkbox"/> 100 PSIG 3/4"x 3/4"	0-240 psi/30-240°F
<input type="checkbox"/> 125 PSIG 3/4"x 3/4"	0-240 psi/30-240°F
<input type="checkbox"/> 150 PSIG 3/4"x 3/4"	0-240 psi/30-240°F

A.S.M.E. SECTION IV DESIGN DATA	SC-1500	SC-2000
Max Pressure	160 PSIG	
Max Allowable Temperature	210°F	
Max Operating Temperature	200°F	
Heated Surface Area	95.2 ft <sup>2</sup>	
Flow Rate @ 20°FΔT	145 GPM	192 GPM
Min Flow Rate @ All Firing Rates (Flow Switch Setting)	46 GPM	62 GPM

RECOMMENDED CLEARANCE FOR SERVICE ACCESS				
Front - 30"	Rear - 12"	Top - 24"	Left Side - 12"	Right Side - 12"

Notes:

- Victaulic is a registered trademark of Victaulic Company, Easton PA, USA
- Harsco Industrial Patterson-Kelley reserves the right to make changes at any time without notification
- Dual fuel models are not designed to run both fuels simultaneously

