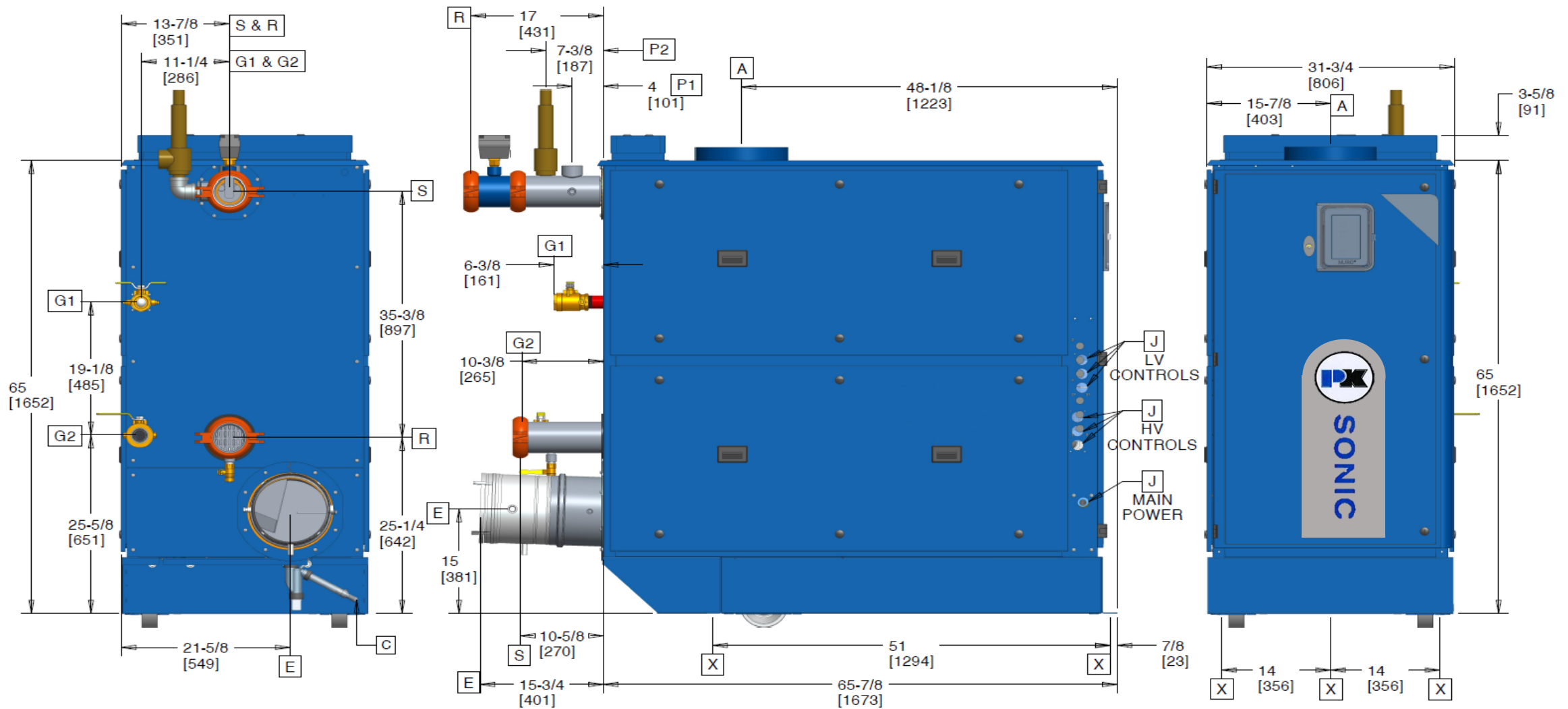


Rep Name: _____

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 2" NPT-F
J	Wiring Junction Boxes inside cabinet
P1	Pressure Relief Valve see list for options
P2	Pressure Relief Valve see list for options
R	Boiler Return, Victaulic® clamp 4" pipe, grooved
S	Boiler Supply, Victaulic clamp 4" pipe, grooved
X	Anchor Bolt Locations (6) 9/16" Bolt Holes

MODEL SELECTION	
Boilers	<input type="checkbox"/> SC-3000 <input type="checkbox"/> SC-4000
Fuel Options	<input type="checkbox"/> DUAL FUEL <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
Max Inlet Gas Pressure	14" w.c.
Max Input (BTU/hr)	3,000,000
Max Output (BTU/hr)	2,907,000
Boiler HP	86.9
Min Input (BTU/hr)	581,400
Turndown Ratio	5:1
Estimated Operating/Shipping Weight †	2045* lbs.
Boiler Water Content	35 gallons
Shipping Dimensions	36"x84"x80" (LxWxH)
Power Supply	<input type="checkbox"/> 208/240V 3ph 60 Hz <input type="checkbox"/> 440/480V 3ph 60 Hz
Operating Current	< 20 Amps
Recommended Minimum Circuit Capacity	20 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, 2500 Watt	

PRESSURE RELIEF VALVE/PRESSURE-TEMPERATURE GAUGE	
Shipped Loose for Field Installation	
<input type="checkbox"/> 30 PSIG 1-1/2"x 2"	0-100 psi/30-240°F
<input type="checkbox"/> 50 PSIG 1-1/4"x 1-1/4"	0-100 psi/30-240°F
<input type="checkbox"/> 60 PSIG 1-1/4"x 1-1/4"	0-100 psi/30-240°F
<input type="checkbox"/> 75 PSIG 1-1/4"x 1-1/4"	0-240 psi/30-240°F
<input type="checkbox"/> 80 PSIG 1-1/4"x 1-1/4"	0-240 psi/30-240°F
<input type="checkbox"/> 100 PSIG 1"x 1-1/4"	0-240 psi/30-240°F
<input type="checkbox"/> 125 PSIG 1"x 1"	0-240 psi/30-240°F
<input type="checkbox"/> 150 PSIG 1"x 1"	0-240 psi/30-240°F

A.S.M.E. SECTION IV DESIGN DATA	SC-3000	SC-4000
Max Pressure	160 PSIG	
Max Allowable Temperature	210°F	
Max Operating Temperature	200°F	
Heated Surface Area, Section IV	106 ft ²	
Heated Surface Area, Section VIII	840 ft ²	
Flow Rate @ 20°FΔT	285 GPM	384 GPM
Min Flow Rate @ All Firing Rates (Flow Switch Setting)	93 GPM	125 GPM

RECOMMENDED CLEARANCE FOR SERVICE ACCESS				
Front - 32"	Rear - 12"	Top - 12"	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

