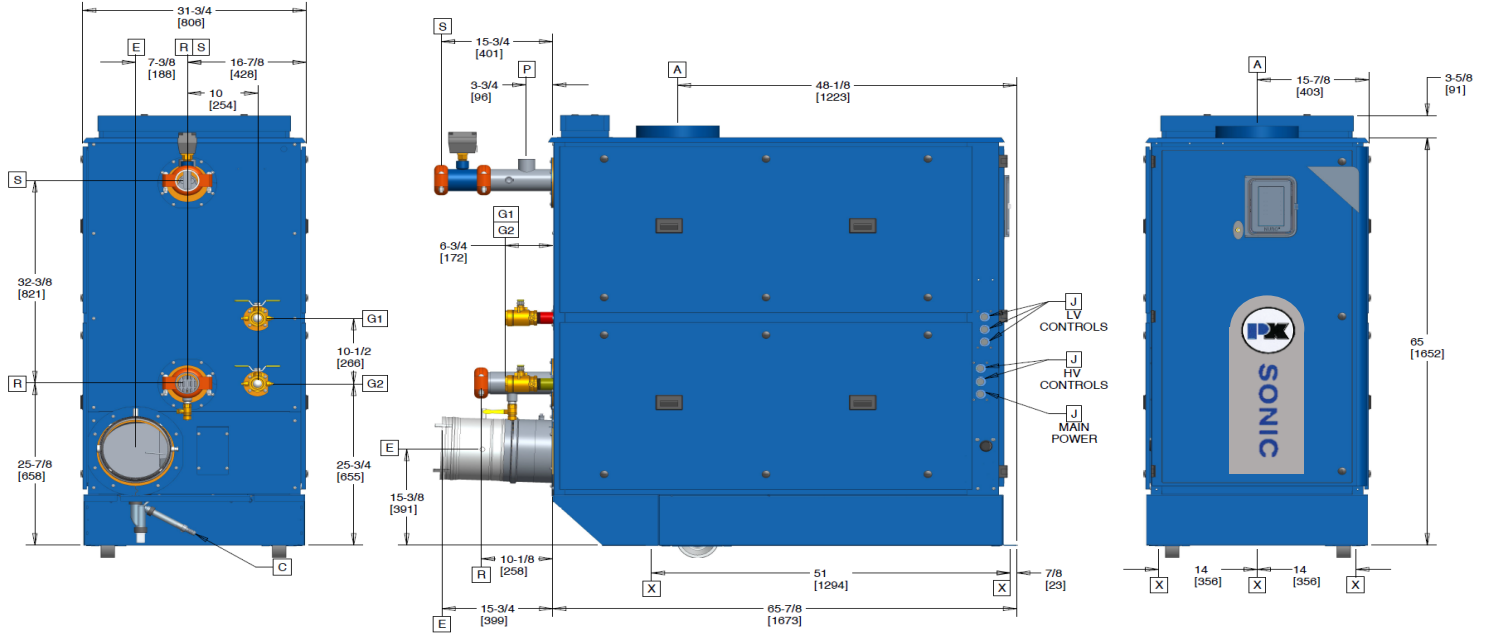


Rep Name: _____

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 CONECTIONS	
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"/> DUAL FUEL		<input type="checkbox"/> SC-2000 <input type="checkbox"/> DUAL FUEL	
Fuel Options	<input type="checkbox"/> NG <input type="checkbox"/> LP		<input type="checkbox"/> NG <input type="checkbox"/> LP	
Min Inlet Gas Pressure	3.5" w.c.	7.0" w.c.	4.0" w.c.	7.0" w.c.
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			

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 Setpoint	185°F	
Heated Surface Area	95.2 ft²	
Flow Rate @ 20°FΔT	145.5 GPM	192 GPM
Min Flow Rate @ All Firing Rates (Flow Switch Setting)	46 GPM	62 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
 - Patterson-Kelley reserves the right to make changes at any time without notification
 - Dual fuel models are not designed to run both fuels simultaneously



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