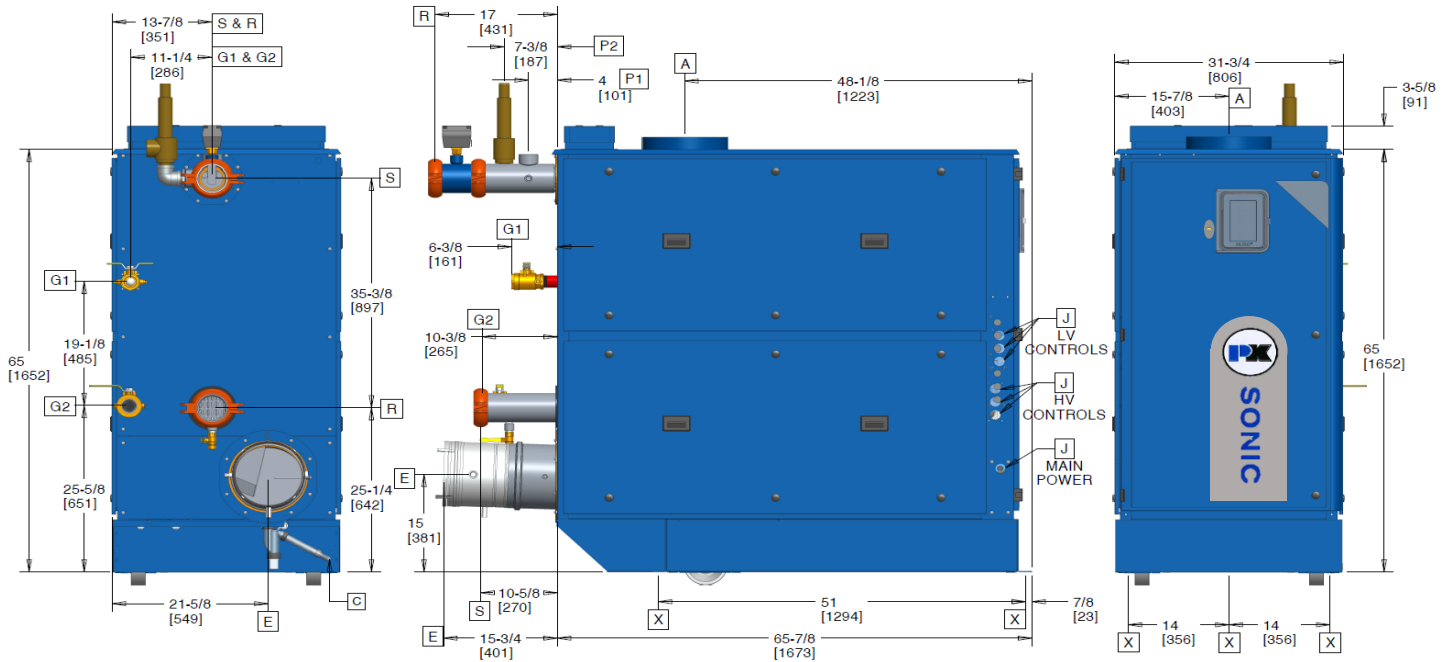


Rep Name: _____

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

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	

A.S.M.E. SECTION IV DESIGN DATA	SC-3000	SC-4000
Max Pressure	160 PSIG	
Min Pressure	14.5 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	290.7 GPM	384 GPM
Min Flow Rate @ All Firing Rates (Flow Switch Setting)	93 GPM	125 GPM

MODEL SELECTION				
Boilers	□ SC-3000		□ SC-4000	
	□ DUAL FUEL			
Fuel Options	□ NG	□ LP	□ NG	□ LP
Min Inlet Gas Pressure	3.5" w.c.	7.0" w.c.	3.5" w.c.	7.0" w.c.
Max Inlet Gas Pressure	14" w.c.			
Max Input (BTU/hr)	3,000,000		4,000,000	
Max Output (BTU/hr)	2,907,000		3,840,000	
Boiler HP	86.9		114.7	
Min Input (BTU/hr)	581,400		768,000	
Turndown Ratio	5:1		5:1	
Estimated Operating/Shipping Weight †	2045* lbs.		2095* lbs.	
Boiler Water Content	35 gallons			
Shipping Dimensions	36"x84"x80" (LxWxH)			
Power Supply	□ 208/240V 3ph 60 Hz		□ 208/240V 3ph 60 Hz	
	□ 440/480V 3ph 60 Hz		□ 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

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

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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DESIGNED & ASSEMBLED
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