

# P-K STORM™

Boiler Models ST-1250, ST-1500, ST-1750, & ST-2000  
Natural Gas with NURO® Control

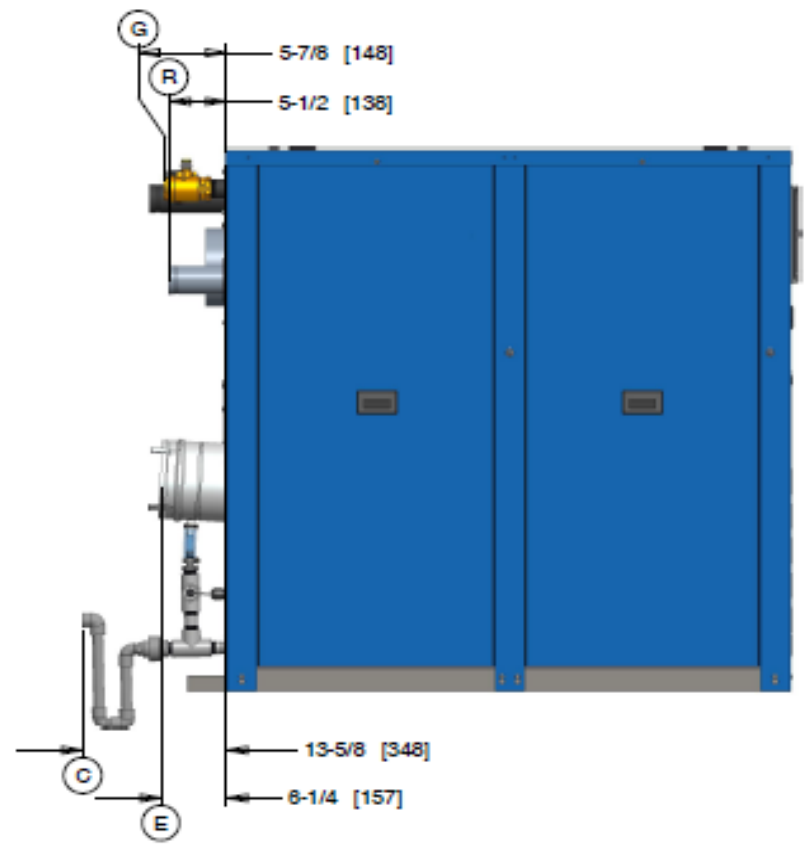
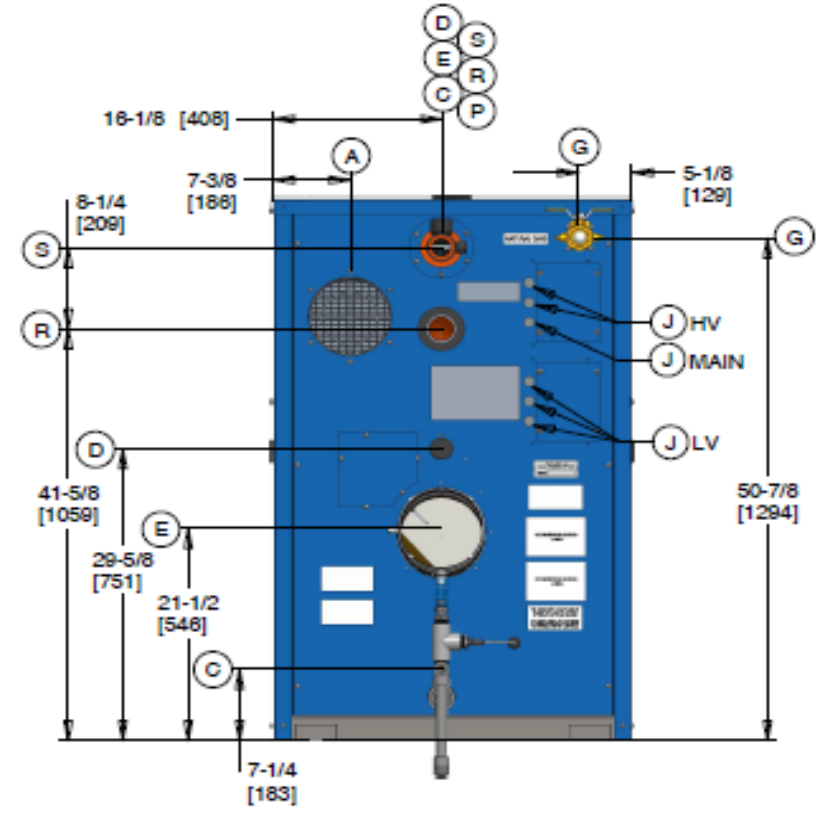
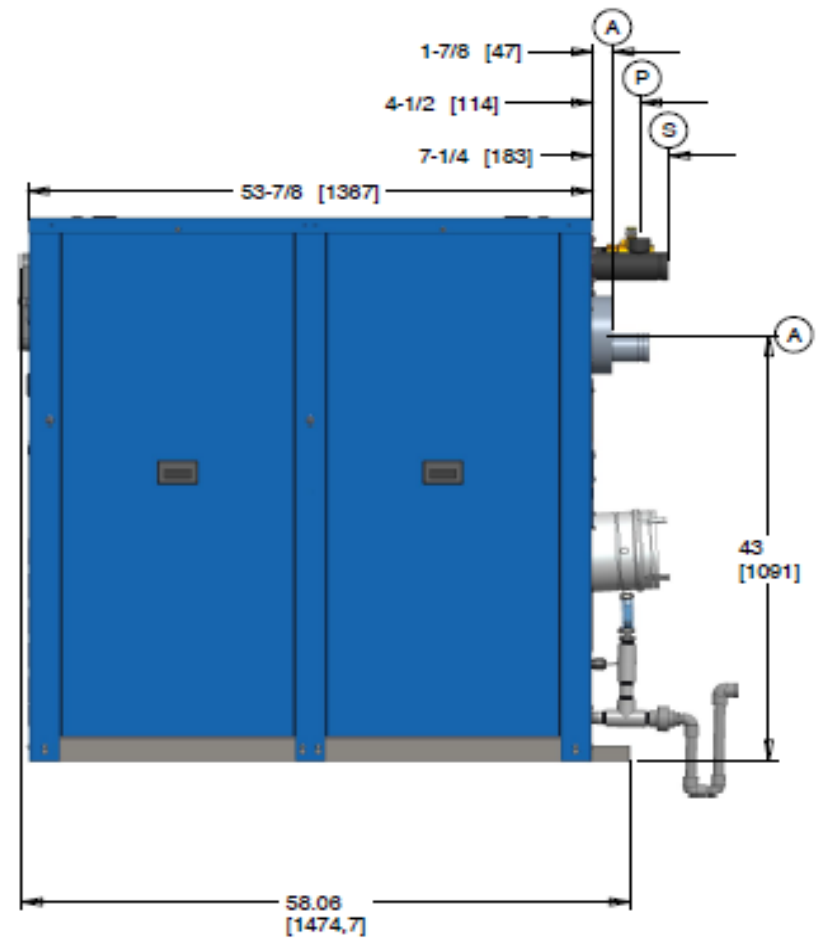
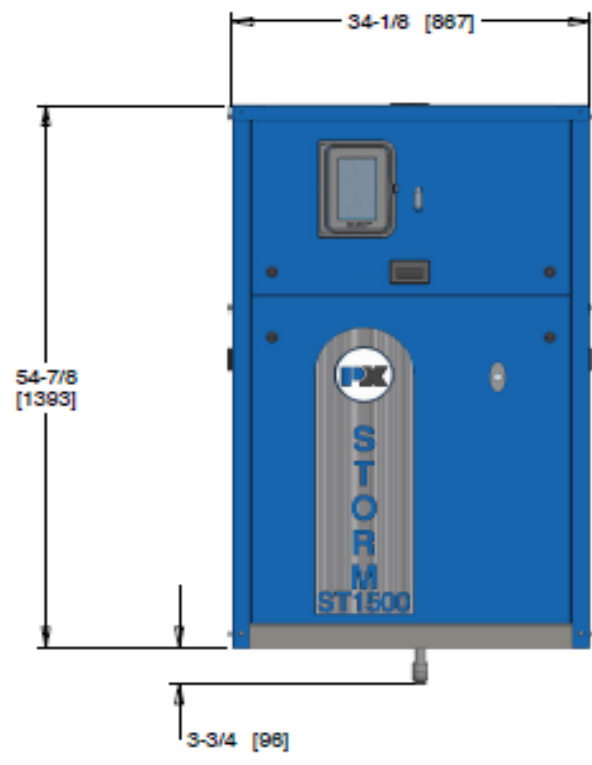


Rep Name: \_\_\_\_\_

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

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

Date:                    /                    /



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 CONECTIONS		
A	Combustion Air Inlet	8" dia. stub
C	Condensate Drain	3/4" hose
E	Exhaust Vent	8"
G	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	2 1/2" pipe, grooved
S†	Boiler Supply, Victaulic clamp	2 1/2" pipe, grooved
	Anchor Bolt Locations	(4) 9/16" Bolt Holes (2 inside cabinet)

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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-1250	ST-1500	ST-1750	ST-2000
Max Pressure	160 PSIG			
Max Allowable Temperature	210°F			
Max Operating Temperature	200°F			
Heated Wet Surface Area	100.17 ft <sup>2</sup>	119.8 ft <sup>2</sup>	153.19 ft <sup>2</sup>	153.19 ft <sup>2</sup>
Flow Rate @ 20°FΔT	120.6 GPM	146 GPM	170 GPM	194 GPM
Min Flow Rate @ All Firing Rates (Flow Switch Setting)	38 GPM	46 GPM	54 GPM	62 GPM

MODEL SELECTION				
Boilers	<input type="checkbox"/> ST-1250	<input type="checkbox"/> ST-1500	<input type="checkbox"/> ST-1750	<input type="checkbox"/> ST-2000
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)	1,250,000	1,500,000	1,750,000	2,000,000
Max Output (BTU/hr)	1,212,500	1,455,000	1,697,500	1,940,000
Boiler HP	36.0	43.0	50.0	58.0
Min Input (BTU/hr)	125,000	150,000	175,000	200,000
Min Output (BTU/hr)	121,250	145,500	169,750	194,000
Turndown Ratio	10:1			
Operating Weight	1112 lbs.	1208 lbs.	1305 lbs.	1305 lbs.
Shipping Weight	1070 lbs.	1150 lbs.	1220 lbs.	1220 lbs.
Boiler Water Content	11 gal	12.9 gal	16.2 gal	16.2 gal
Shipping Dimensions	72"x38"x60" (LxWxH)			
Power Supply	208/240V, 1ph, 60Hz			
Operating Current	20 Amps			
Recommended Minimum Circuit Capacity	20 Amps			

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 - 18"	Rear - 12"	Top - 0"	Left Side - 6"	Right Side - 0"

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