

P-K MODU-FIRE FORCED DRAFT®

Boiler Models N-2500 & N-3000
Natural Gas with NURO® Control

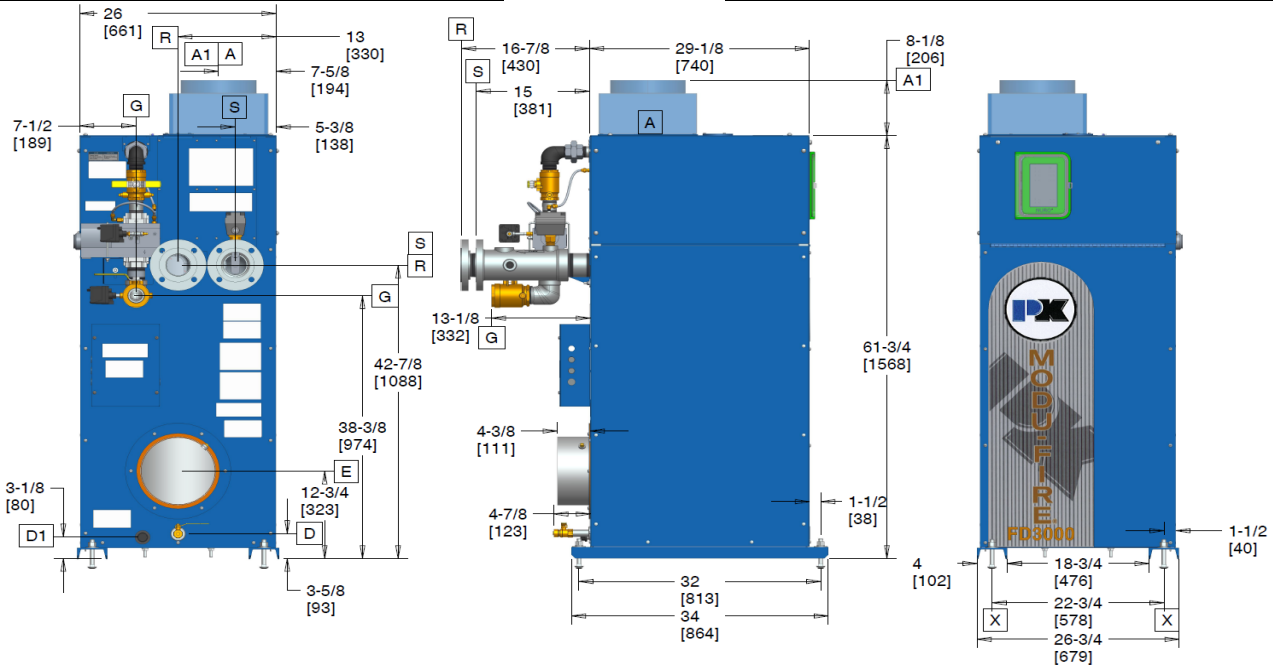


Rep Name: _____

Email: _____

Phone Number: _____

Date: _____ / _____ / _____



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

These MODU-FIRE FD boilers 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 11-3/4" Square
A1	Combustion Air Inlet (Optional Air Intake Adapter Installed) 10" Diameter
D	Drain (Heat Exchanger) 3/4" NPT-F
D1	Drain (Fireside) 3/4" NPT-F
E	Exhaust Vent 10" OD Nominal
G	Main Gas Connection 2" NPT-F
J	Wiring Junction Box 3" Pipe, Grooved
P	Pressure Relief Valve See List for Selection
R	Boiler Water Return 3"-150# ANSI Flange
S	Boiler Water Supply 3"-150# ANSI Flange
X	Anchor Bolt Locations (4) 3/4" Diameter Holes

MODEL SELECTION	
Boilers	<input type="checkbox"/> N-2500 <input type="checkbox"/> N-3000
Fuel Options	<input type="checkbox"/> NG <input type="checkbox"/> NG
Min Inlet Gas Pressure	4" w.c.
Max Inlet Gas Pressure	14" w.c.
Max Input (BTU/hr)	2,500,000 3,000,000
Max Output (BTU/hr)*	2,200,000 2,640,000
Boiler HP	63.4 76.1
Min Input (BTU/hr)	500,000 600,000
Turndown Ratio	5:1 5:1
Estimated Operating/Shipping Weight †	1217* lbs.
Boiler Water Content	12.6 Gallons
Shipping Dimensions	54"x32"x68" (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 6-4/12-69 Section 1.0
Main Gas Train with Dual Shut-off
Integrated Boiler Control, NURO Series
Operating Thermostat, 140°-220°F (60°-104°C)
High Limit Thermostat, Manual Reset, 100°-240°F (38°-116°C)
High Exhaust Back Pressure Switch
LWCO/Flow Switch, Paddle Type
Combustion Air Proving Switch, Differential Pressure Type
Combustion Blower, Variable Speed, 1865 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/70-320°F
<input type="checkbox"/> 50 PSIG 1-1/4" x 1-1/2"	0-100 psi/70-320°F
<input type="checkbox"/> 60 PSIG 1-1/4" x 1-1/4"	0-100 psi/70-320°F
<input type="checkbox"/> 75 PSIG 1-1/4" x 1-1/4"	0-240 psi/70-320°F
<input type="checkbox"/> 80 PSIG 1-1/4" x 1-1/4"	0-240 psi/70-320°F
<input type="checkbox"/> 100 PSIG 1" x 1-1/4"	0-240 psi/70-320°F
<input type="checkbox"/> 125 PSIG 1" x 1"	0-240 psi/70-320°F
<input type="checkbox"/> 150 PSIG 3/4" x 1"	0-240 psi/70-320°F

A.S.M.E. SECTION IV DESIGN DATA	N-2500	N-3000
Max Pressure	160 PSIG	
Max Allowable Temperature	250°F	
Max Operating Temperature	200°F	
Heated Surface Area	357 ft²	
Optimal Flow Rate @ 20°FΔT	270 GPM	325 GPM
Min Flow Rate @ Low Fire	165 GPM	165 GPM

RECOMMENDED CLEARANCE FOR SERVICE ACCESS				
Front - 36"	Rear - 24"	Top - 24"	Left Side - 24"	Right Side - 24"

Notes:
-Patterson-Kelley, LLC reserves the right to make changes at any time without notification
* Maximum Output is based off of CSA published efficiency of 88%



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DESIGNED & ASSEMBLED
IN THE U.S.A.