MODU-FIRE® Forced Draft

Boiler Models N1500MFD & N2000MFD

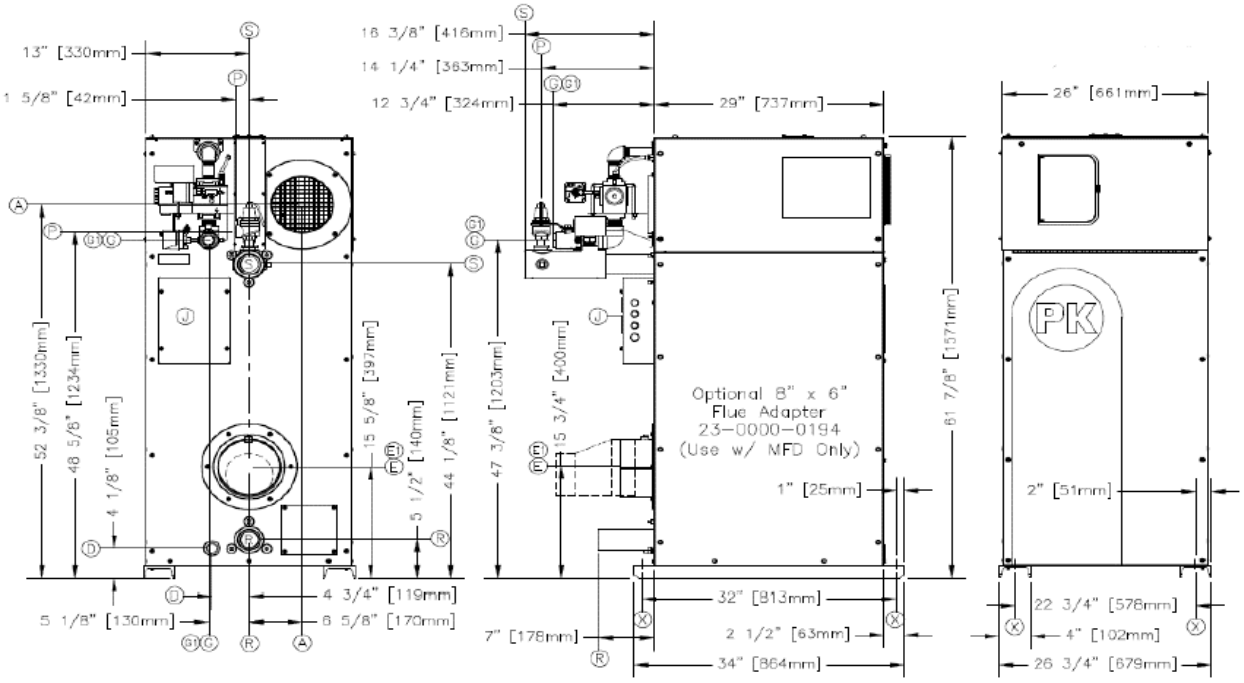
VELOX™

Boiler Models N1500VX, N1700VX, & N2000VX

PATTERSON-KELLEY

Rep Name: _____ **Email:** _____

Phone Number: _____ **Date:** ____ / ____ / ____



MODU-FIRE®/ FD boilers require Category II (condensing-negative pressure) or Category IV (condensing-positive pressure) venting and VELOX™ / boilers require Category I (non-condensing) venting as defined in ANSI Z223.1/NFPA 54/CSA-B.149 Latest Edition.

BOILER CONECTIONS		
A	Combustion Air Inlet	8" dia. stub
C	Drain (Fireside)	3/4" NPT-M
E	Exhaust Vent	8"
E1	Exhaust Vent (With Adapter - MFD Only	6"
G	Main Gas Connection N1500	1 1/4" NPT-F
G1	Main Gas Connection N1700/N2000	1 1/2" NPT-F
J	Wiring Junction Boxes	inside cabinet
P	Pressure Relief Valve	see list for options
R	Boiler Return	2 1/2" NPT-M
S	Boiler Supply	2 1/2" NPT-F
X	Anchor Bolt Locations	(4) 3/4" dia 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, 130º-220ºF (54.4º-104ºC)
High Limit Thermostat, Manual Reset, 100º-240ºF (38º-116ºC)
High Exhaust Back Pressure Switch
LWCO/Flow Switch, Paddle Type
Combustion Air Proving Switch, Differential Pressure Type
Combustion Blower, Variable Speed, 745.7 Watt

A.S.M.E. SECTION IV DESIGN DATA	N1500	N1700	N2000
Max Pressure	160 PSIG		
Max Allowable Temperature	250°F		
Max Setpoint	220°F		
Heated Wet Surface Area	206 sq. ft.		
Flow Rate @ 20°FΔT	127.5 GPM	144.5 GPM	170 GPM

MODEL SELECTION						
Boilers	☐ N1500		☐ N1700		☐ N2000	
Fuel Options	☐ NG	☐ LP	☐ NG	☐ LP	☐ NG	☐ LP
Min Inlet Gas Pressure	4" w.c.	7.0" w.c.	3.5" w.c.	7.0" w.c.	3.5" w.c.	7.0" w.c.
Max Inlet Gas Pressure	14.0" w.c.					
Input (BTU/hr)	1,500,000		1,700,000		2,000,000	
Output (BTU/hr)	1,275,000		1,445,000		1,700,000	
Boiler HP	38.0		43.2		50.8	
Operating Weight	985 lbs.					
Shipping Weight	960 lbs.		960 lbs.		990 lbs.	
Boiler Water Content	7.3 gallons					
Shipping Dimensions	54"x32"x68" (LxWxH)					
Power Supply	☐ 120V 1ph 60Hz (VX ONLY)		☐ 208-220V 1ph 60Hz (MFD OR VX)			
Operating Current	< 10 Amps					
Recommended Minimum Circuit Capacity	10 Amps					

PRESSURE RELIEF VALVE/PRESSURE-TEMPERATURE GAUGE Shipped Loose for Field Installation		
☐	30 PSIG 1 1/4"x 1 1/4"	15-160 psi/0-250°F
☐	50 PSIG 1"x 1 1/4"	15-160 psi/0-250°F
☐	60 PSIG 1"x1"	15-160 psi/0-250°F
☐	75 PSIG 1"x 1"	15-160 psi/0-250°F
☐	80 PSIG 3/4"x 1"	15-160 psi/0-250°F
☐	100 PSIG 3/4"x 3/4"	15-160 psi/0-250°F
☐	125 PSIG 3/4"x 3/4"	15-160 psi/0-250°F
☐	150 PSIG 3/4"x 3/4"	15-160 psi/0-250°F

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

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

PROUDLY DESIGNED & ASSEMBLED IN THE U.S.A.

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