

MODU-FIRE® Forced Draft

Boiler Models W750MFD & W1000MFD

VELOX™

Boiler Models W750VX & W1000VX



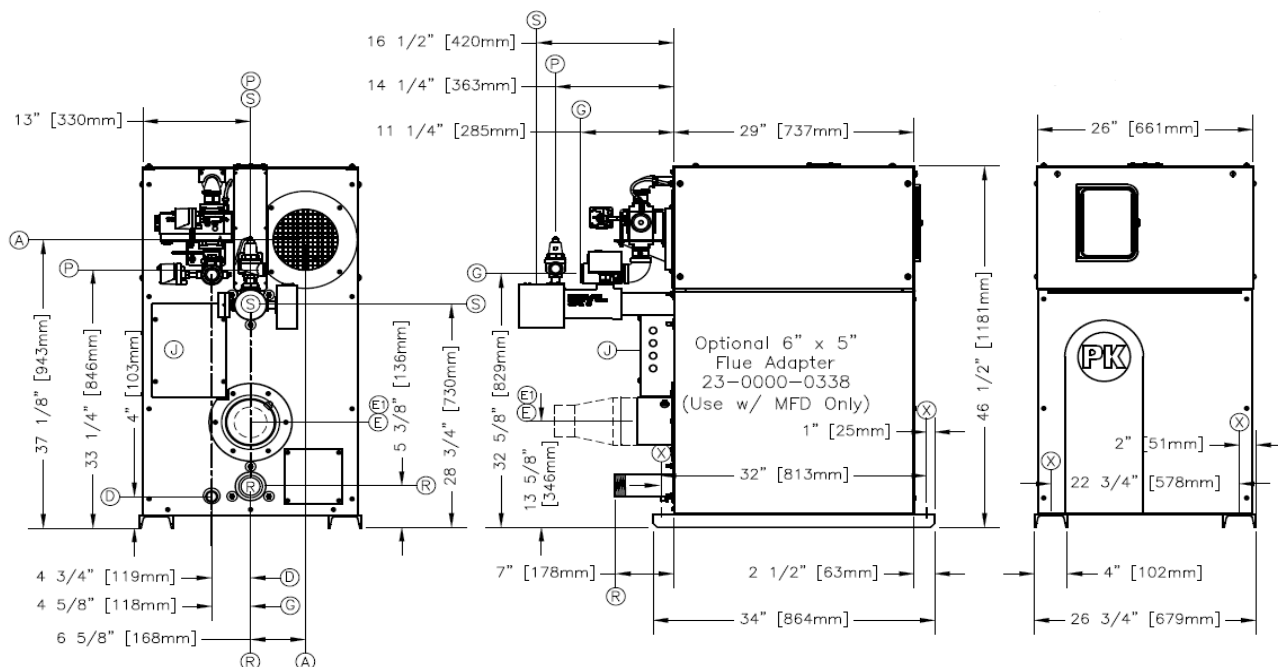
PATTERSON-KELLEY

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 CONNECTIONS

A	Combustion Air Inlet	8" dia. stub
C	Drain (Fireside)	3/4" NPT-M
E	Exhaust Vent	6"
E1	Exhaust Vent (With Adapter - MFD Only)	5"
G1	Propane Gas	1 1/4" NPT-F
G2	Natural Gas	1 1/4" 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, 140°-190°F (60°-88°C)

High Limit Thermostat, Manual Reset, 100°-197°F (38°-92°C)

High Exhaust Back Pressure Switch

LWCO/Flow Switch, Paddle Type

Combustion Air Proving Switch, Differential Pressure Type

Combustion Blower, Variable Speed, 315 Watts

MODEL SELECTION

Boilers	☐ W750MFD	☐ W750VX	☐ W1000MFD	☐ W1000VX
Fuel Options	☐ Natural Gas ☐ Liquid Propane			
Turndown Ratio	5:1	1.2:1	5:1	1.6:1
Min Inlet Gas Pressure	NG - 3.5" w.c. / LP - 7" w.c.			
Max Inlet Gas Pressure	14" w.c.			
Input (BTU/hr)	750,000			1,000,000
Output (BTU/hr)	638,000			850,000
Min Input (BTU/hr)	150,000	604,000	166,000	610,000
Boiler HP	19.0		25.4	
Operating Weight	800 lbs.			
Shipping Weight	820 lbs.			
Boiler Water Content	6.2 gallons			
Shipping Dimensions	54"x32"x52" (LxWxH)			
Power Supply	☐ 208-240V, 1ph, w/neutral, 60Hz ☐ 120V, 1ph, 60Hz (VELOX Only)			
Operating Current	< 6 Amps			
Recommended Minimum Circuit Capacity	10 Amps			

PRESSURE RELIEF VALVE/PRESSURE-TEMPERATURE GAUGE

☐ 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"	Rear - 24"	Top - 24"	Left Side - 24"	Right Side - 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

A.S.M.E. SECTION IV DESIGN DATA

Max Pressure	160 psig
Max Allowable Temperature	210°F
Max Operating Temperature	194°F
Heated Wet Surface Area	116 sq. ft.
Flow Rate @ 20°FΔT	63.8 GPM 85 GPM



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