

# MODU-FIRE® Forced Draft

Water Heater Models W1500MFD & W2000MFD

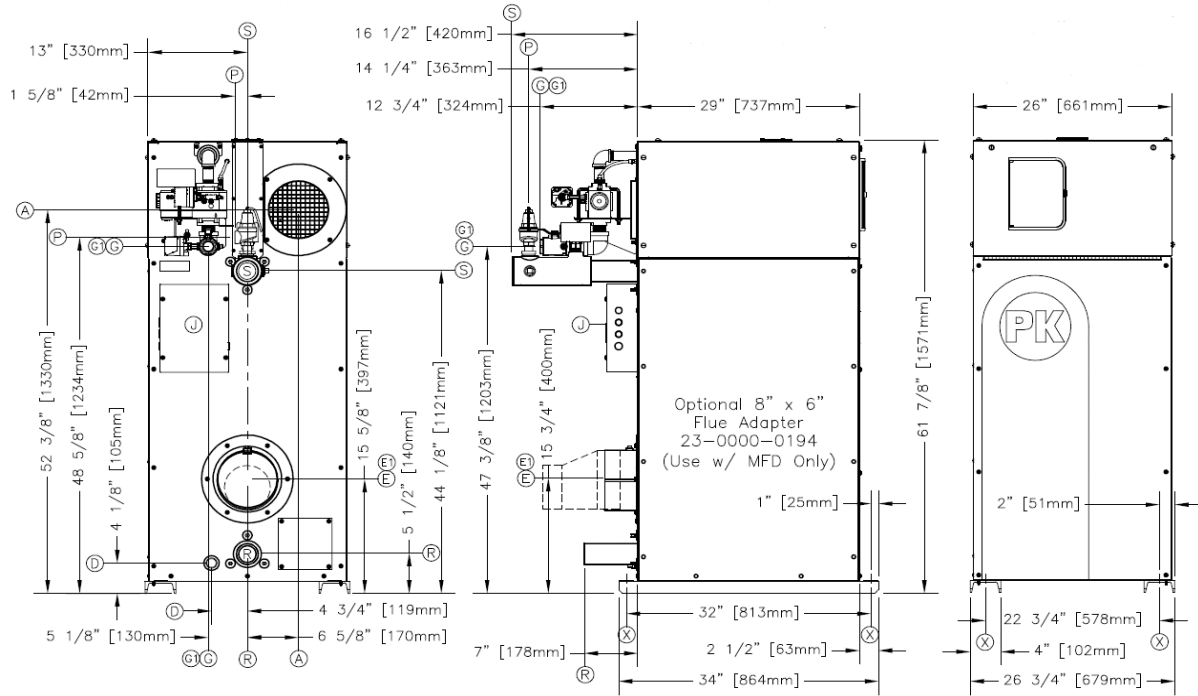
## VELOX™

Water Heater Models W1500VX, W1700VX, & W2000VX



Rep Name: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_

Email: \_\_\_\_\_  
 Date: / /



MODU-FIRE®/ FD water heaters require Category II (condensing-negative pressure) or Category IV (condensing-positive pressure) venting and VELOX™ / water heaters 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.
C	Drain (Fireside)	3/4" NPT-M
E	Exhaust Vent	8"
E1	Exhaust Vent (With Adapter - MFD Only)	6"
G	Main Gas Connection W1500	1 1/4" NPT-F
G1	Main Gas Connection W1700/W2000	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, 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, 300 Watt	

A.S.M.E. SECTION IV DESIGN DATA	W1500	W1700	W2000
Max Pressure	160 PSIG		
Max Allowable Temperature	250°F		
Max Setpoint	190°F		
Heated Wet Surface Area	206 sq. ft.		
Flow Rate @ 20°FΔT	127.5 GPM	144.5 GPM	170 GPM

MODEL SELECTION					
Boilers	<input type="checkbox"/> W1500MFD	<input type="checkbox"/> W1500VX	<input type="checkbox"/> W1700VX	<input type="checkbox"/> W2000MFD	<input type="checkbox"/> W2000VX
Fuel Options	<input type="checkbox"/> NG <input type="checkbox"/> LP				
Min Inlet Gas Pressure	4" w.c.	7.0" w.c.	3.5" 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.				
Boiler Water Content	7.3 gallons				
Shipping Dimensions	54"x32"x68" (LxWxH)				
Power Supply	<input type="checkbox"/> 120V 1ph 60Hz (VX ONLY)		<input type="checkbox"/> 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		
<input type="checkbox"/> 30 PSIG 1 1/4"x 1 1/4"	15-160 psi/0-250°F	
<input type="checkbox"/> 50 PSIG 1"x 1 1/4"	15-160 psi/0-250°F	
<input type="checkbox"/> 60 PSIG 1"x 1"	15-160 psi/0-250°F	
<input type="checkbox"/> 75 PSIG 1"x 1"	15-160 psi/0-250°F	
<input type="checkbox"/> 80 PSIG 3/4"x 1"	15-160 psi/0-250°F	
<input type="checkbox"/> 100 PSIG 3/4"x 3/4"	15-160 psi/0-250°F	
<input type="checkbox"/> 125 PSIG 3/4"x 3/4"	15-160 psi/0-250°F	
<input type="checkbox"/> 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

