

MODU-FIRE® Forced Draft

Boiler Models N750MFD & N1000MFD

VELOX™

Boiler Models N750VX & N1000VX



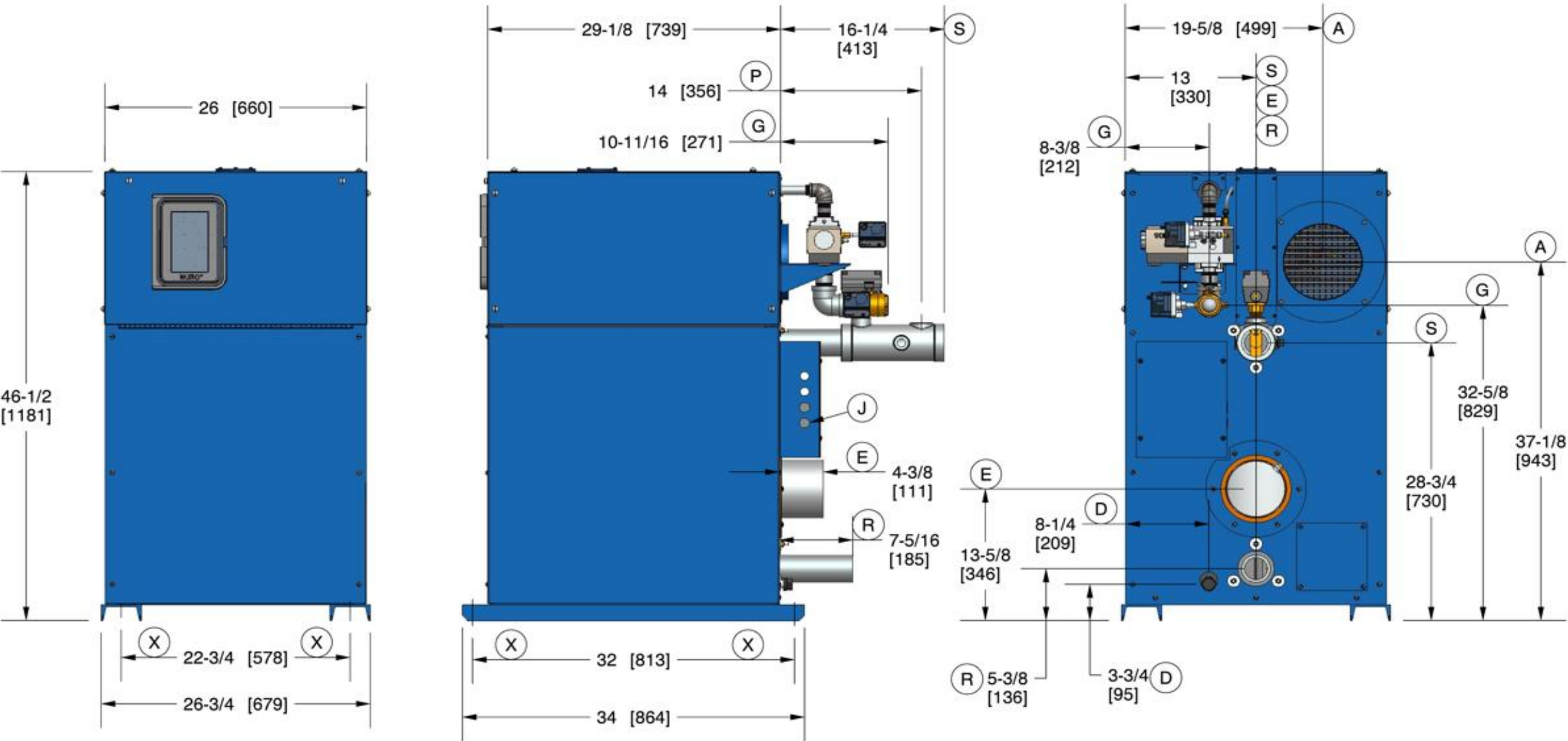
PATTERSON-KELLEY

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
D	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, 130°-220°F (54.4°-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, 372.8 Watts		
A.S.M.E. SECTION IV DESIGN DATA		
	N750MFD	N750VX
	N1000MFD	N1000VX
Max Pressure	160 psig	
Max Allowable Temperature	250°F	
Maximum Setpoint	220°F	
Heated Wet Surface Area	116 sq. ft.	
Flow Rate @ 20°FΔT	63.8 GPM	85 GPM

MODEL SELECTION				
Boilers	☐ N750MFD	☐ N750VX	☐ N1000MFD	☐ N1000VX
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	
☐	30 PSIG 1 1/4"x 1 1/4"
☐	50 PSIG 1"x 1 1/4"
☐	60 PSIG 1"x 1"
☐	75 PSIG 1"x 1"
☐	80 PSIG 3/4"x 1"
☐	100 PSIG 3/4"x 3/4"
☐	125 PSIG 3/4"x 3/4"
☐	150 PSIG 3/4"x 3/4"

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

Notes:

