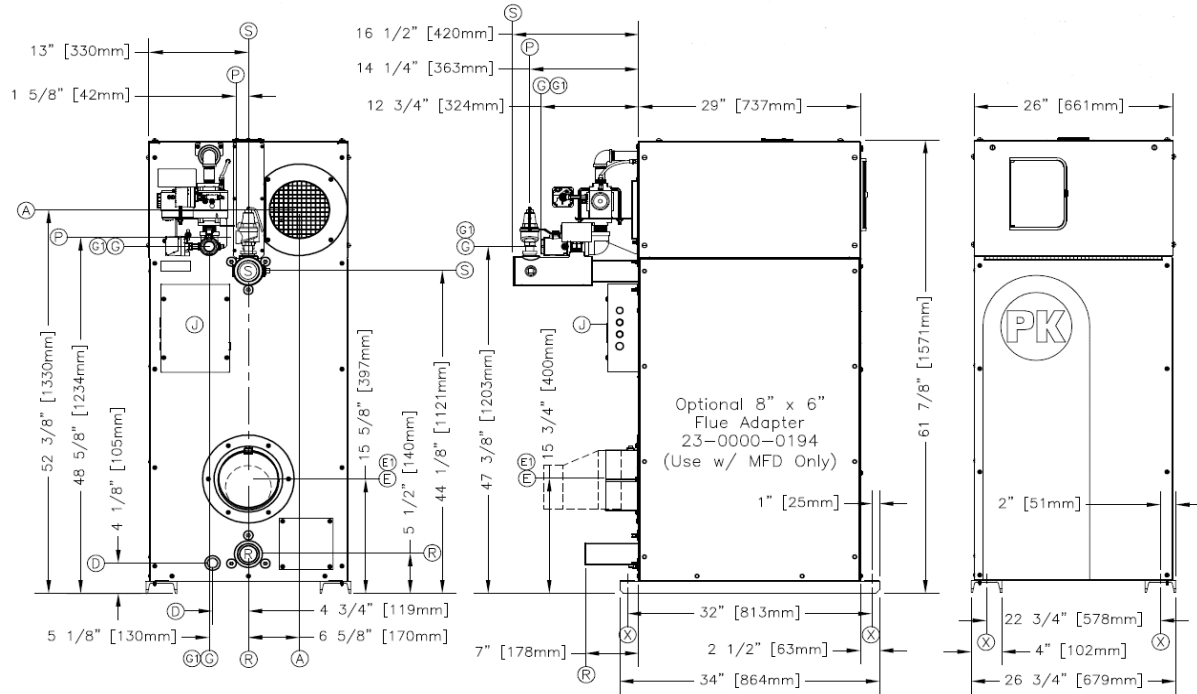




**Email:**

**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 GasPac (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<br>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<br><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"x1"          | 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



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