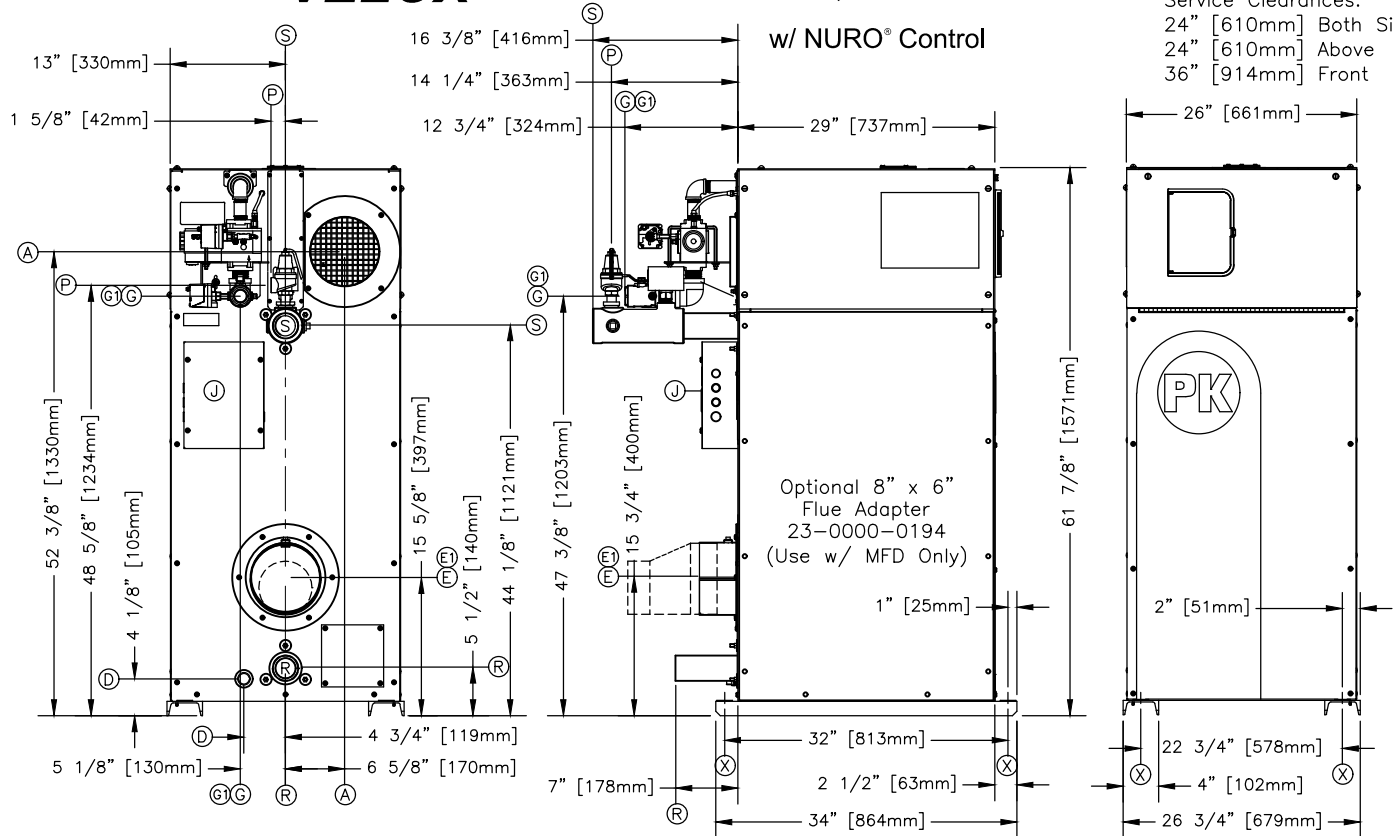


# MODU-FIRE® Forced Draft Boiler Models N1500MFD & N2000MFD

# VELOX™ Boiler Models N1500VX, N1700VX & N2000VX

Service Clearances:  
 24" [610mm] Both Sides  
 24" [610mm] Above  
 36" [914mm] Front



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. Harsco Industrial, Patterson-Kelley reserves the right to make changes at any time without notification.

| BOILER CONNECTIONS:                        |                        |
|--------------------------------------------|------------------------|
| (A) Combustion Air Inlet                   | 8" dia                 |
| (D) Drain (Fireside)                       | 3/4" NPT-M             |
| (E) Exhaust Vent                           | 8" OD Nominal          |
| (E) Exhaust Vent (With Adapter - MFD Only) | 6"                     |
| (C) Main Gas Connection N1500              | 1 1/4" NPT-F           |
| (G) Main Gas Connection N1700/N2000        | 1 1/2" NPT-F           |
| (J) Wiring Junction Box                    |                        |
| (P) Pressure Relief Valve                  | see list for selection |
| (R) Boiler Water Return                    | 2 1/2" NPT-M           |
| (S) Boiler Water Supply                    | 2 1/2" NPT-F           |
| (X) Anchor Bolt Location                   | (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. |  |
| Complies with FM Global 6-4/12-69 Section 1.0                  |  |
| Main Gas Train: see gas train submittal                        |  |
| 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 Temperature Switch, Manual Reset                  |  |
| High Exhaust Back Pressure Switch                              |  |
| LWCO/Flow Switch, Paddle Type                                  |  |
| Air Switch, Differential Pressure Type                         |  |
| Combustion Blower, Variable Speed, 1hp                         |  |

| A.S.M.E. Section IV Design Data - "H" Stamp |           |
|---------------------------------------------|-----------|
| Maximum Pressure                            | 160 psig  |
| Maximum Temperature                         | 250°F     |
| Heating Surface                             | 206 sq ft |

| FACTORY OPTIONS:         |                                                                |
|--------------------------|----------------------------------------------------------------|
| <input type="checkbox"/> | Probe Type Low Water Cut Off, Manual Reset (factory installed) |
| <input type="checkbox"/> | Probe Type Low Water Cut Off, Manual Reset (shipped loose)     |

| C.S.A. CERTIFIED RATINGS AND CAPACITIES |                                                                           |              |           |
|-----------------------------------------|---------------------------------------------------------------------------|--------------|-----------|
| Max Input BTU/Hr                        | 1,500,000                                                                 | 1,700,000    | 2,000,000 |
| Max Output BTU/Hr                       | 1,275,000                                                                 | 1,445,000    | 1,700,000 |
| Boiler HP                               | 38.0                                                                      | 43.2         | 50.8      |
| Max/Min Flow GPM                        | 150/90                                                                    | 165/100      | 180/120   |
| MFD Boiler Model                        | N1500MFD                                                                  | -            | N2000MFD  |
| Turndown Ratio                          | 6:1                                                                       | -            | 6:1       |
| Min Input BTU/Hr                        | 250,000                                                                   | -            | 335,000   |
| VELOX Boiler Model                      | N1500VX                                                                   | N1700VX      | N2000VX   |
| Turndown Ratio                          | 1.5:1                                                                     | 1.6:1        | 1.8:1     |
| Min Input BTU/Hr                        | 1,005,000                                                                 | 1,050,000    | 1,100,000 |
| Fuel                                    | <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas |              |           |
| Max Gas Pressure                        | 14" w.c.                                                                  |              |           |
| Min Gas Pressure                        | NG-4" w.c.                                                                | NG 3.5" w.c. |           |
|                                         | LP-7" w.c.                                                                |              |           |
| Power Requirements                      | <input type="checkbox"/> 120v, 1ph, 60hz (VELOX Only)                     |              |           |
|                                         | <input type="checkbox"/> 208-240v, 1ph w/neutral, 60hz                    |              |           |
| Max Operating Amps                      | Less than 10 Amps                                                         |              |           |
| Operating Weight                        | 985 Lbs.                                                                  |              |           |
| Water Content                           | 7.3 Gallons                                                               |              |           |

| Pressure Relief Valve/Press-Temp Gauge Shipped Loose for Field Installation |                     |                   |
|-----------------------------------------------------------------------------|---------------------|-------------------|
| <input type="checkbox"/>                                                    | 30 PSIG 1 1/4"      | 0-100psi/70-320°F |
| <input type="checkbox"/>                                                    | 50 PSIG 1" x 1 1/4" | 0-100psi/70-320°F |
| <input type="checkbox"/>                                                    | 60 PSIG 1"          | 0-100psi/70-320°F |
| <input type="checkbox"/>                                                    | 75 PSIG 1"          | 0-240psi/70-320°F |
| <input type="checkbox"/>                                                    | 80 PSIG 3/4" x 1"   | 0-240psi/70-320°F |
| <input type="checkbox"/>                                                    | 100 PSIG 3/4"       | 0-240psi/70-320°F |
| <input type="checkbox"/>                                                    | 125 PSIG 3/4"       | 0-240psi/70-320°F |
| <input type="checkbox"/>                                                    | 150 PSIG 3/4"       | 0-240psi/70-320°F |



N1500MFD-N2000MFD &  
 N1500VX-N1700VX-N2000VX \_NURO  
 08.14.18