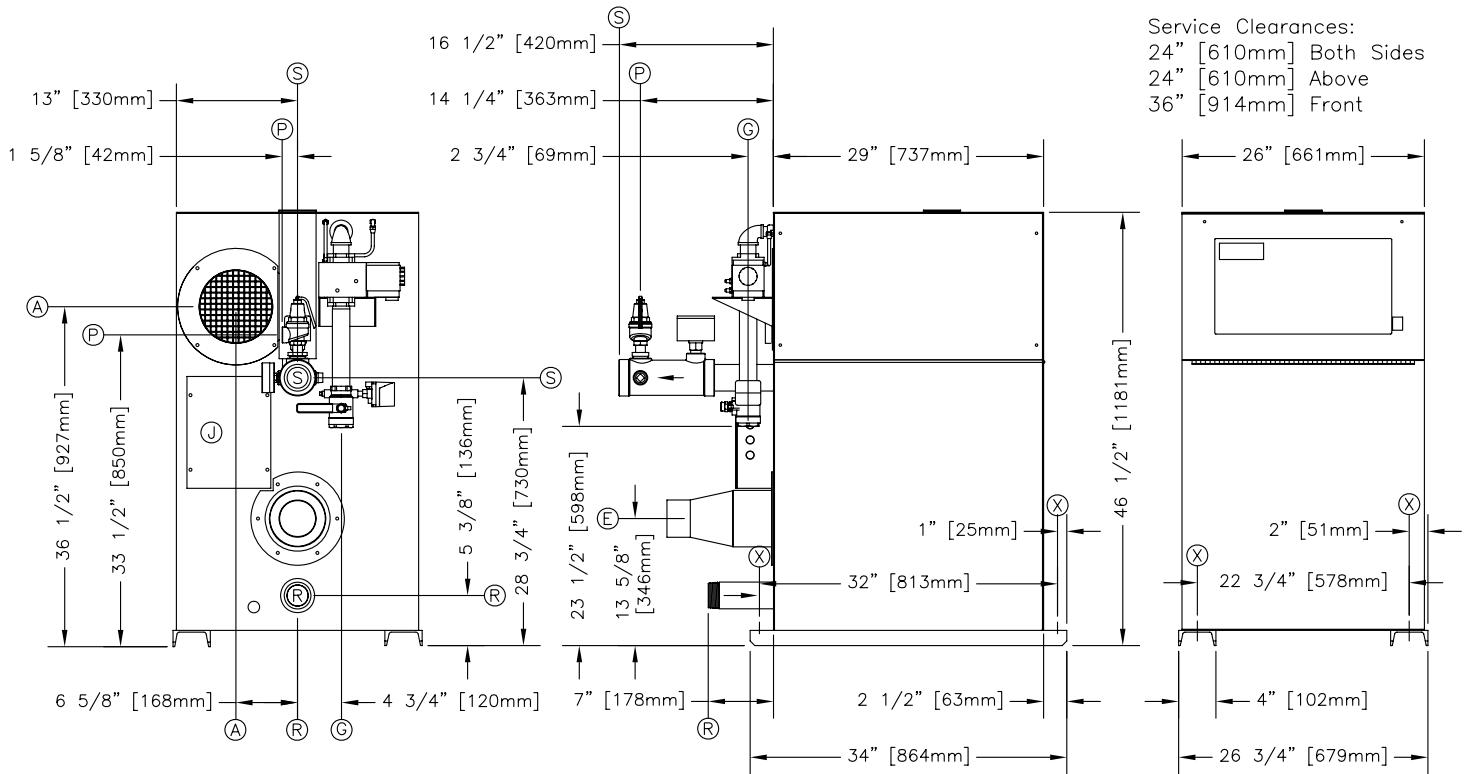


# Modu-Fire® FD Model N750MFD 4" Vent

ENVI™ Control



The Modu-Fire® FD Boiler requires category IV venting (condensing—positive pressure) 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
(E) Exhaust Vent	4" OD
(G) Main Gas Connection	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, ENVI™ Series	
Operating Thermostat, 140°-220°F (60°-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	

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	
Fuel	<input type="checkbox"/> Natural Gas(NG) <input type="checkbox"/> Propane(LP)
Input, BTU/hr	750,000max/200,000min
Output, BTU/hr	637,500max/170,000min
Boiler HP	19.0
Maximum Inlet Gas Pressure	14" w.c.
Minimum Inlet Gas Pressure	NG: 5" w.c. LP: 7" w.c.

Electrical Requirements	208/230v, 1ph w/neutral, 60hz
Total Operating Amps	less than 12 amps
Operating Weight	800 lbs.
Water Content	6.2 gallons

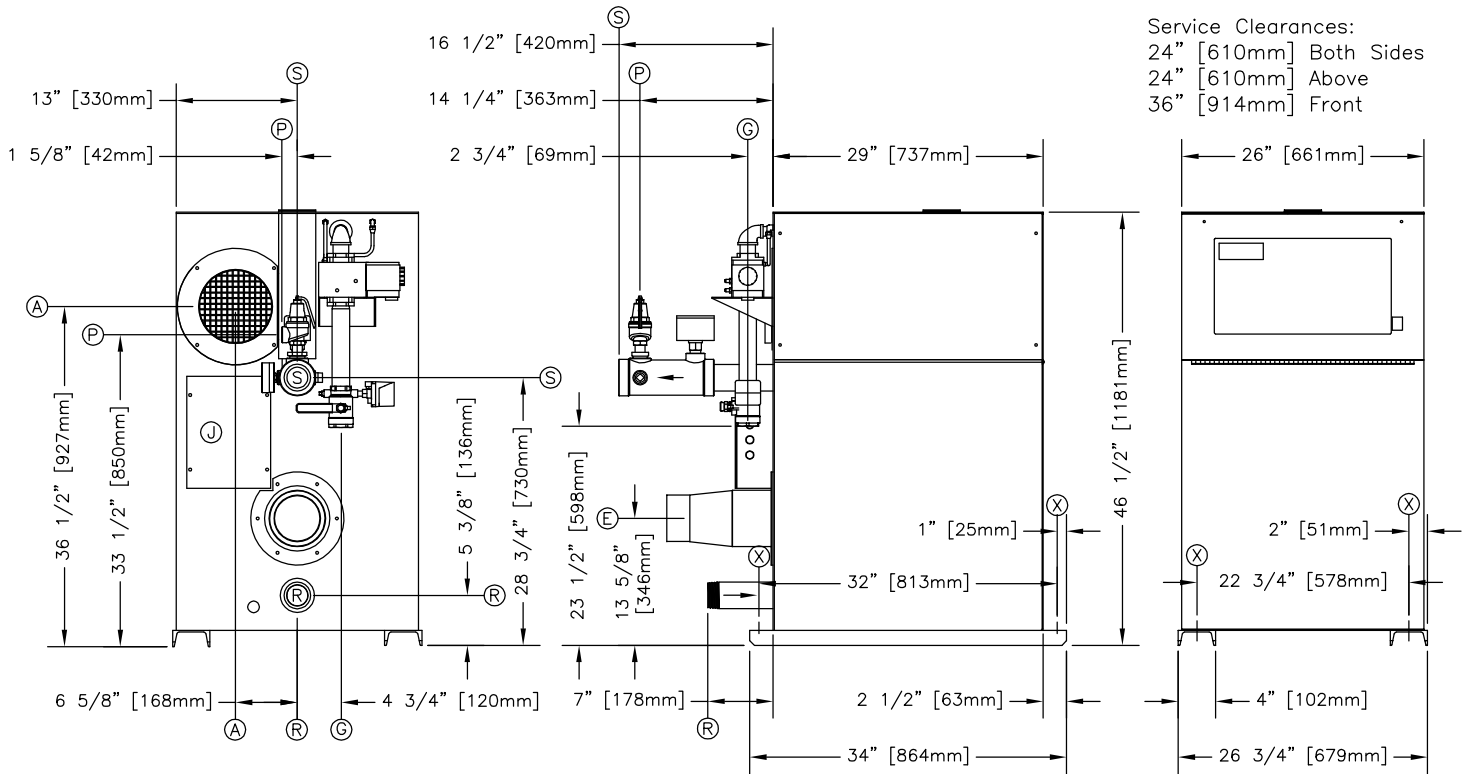
A.S.M.E. Section IV Design Data	
Maximum Pressure	160 psig
Maximum Temperature	250°F
Heating Surface	116 sq ft
Flow Rate, GPM	60min/120max

Pressure Relief Valve/Press-Temp Gauge		
<input type="checkbox"/>	100 PSIG 3/4" (standard)	0-240psi/30-240°F
<input type="checkbox"/>	30 PSIG 1 1/4"	0-100psi/30-240°F
<input type="checkbox"/>	50 PSIG 1" x 1 1/4"	0-100psi/30-240°F
<input type="checkbox"/>	60 PSIG 1"	0-100psi/30-240°F
<input type="checkbox"/>	75 PSIG 1"	0-240psi/30-240°F
<input type="checkbox"/>	80 PSIG 3/4" x 1"	0-240psi/30-240°F
<input type="checkbox"/>	125 PSIG 3/4"	0-240psi/30-240°F
<input type="checkbox"/>	150 PSIG 3/4"	0-240psi/30-240°F

**HARSCO**  
**INDUSTRIAL**  
**Patterson-Kelley**

# Modu-Fire® FD Model N750MFD 5" Vent

ENVI™ Control



The Modu-Fire® FD Boiler requires category IV venting (condensing—positive pressure) 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
(E) Exhaust Vent	5" OD
(G) Main Gas Connection	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, ENVI™ Series	
Operating Thermostat, 140°-220°F (60°-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	

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	
Fuel	<input type="checkbox"/> Natural Gas(NG) <input type="checkbox"/> Propane(LP)
Input, BTU/hr	750,000max/200,000min
Output, BTU/hr	637,500max/170,000min
Boiler HP	19.0
Maximum Inlet Gas Pressure	14" w.c.
Minimum Inlet Gas Pressure	NG: 5" w.c. LP: 7" w.c.

Electrical Requirements	208/230v, 1ph w/neutral, 60hz
Total Operating Amps	less than 12 amps
Operating Weight	800 lbs.
Water Content	6.2 gallons

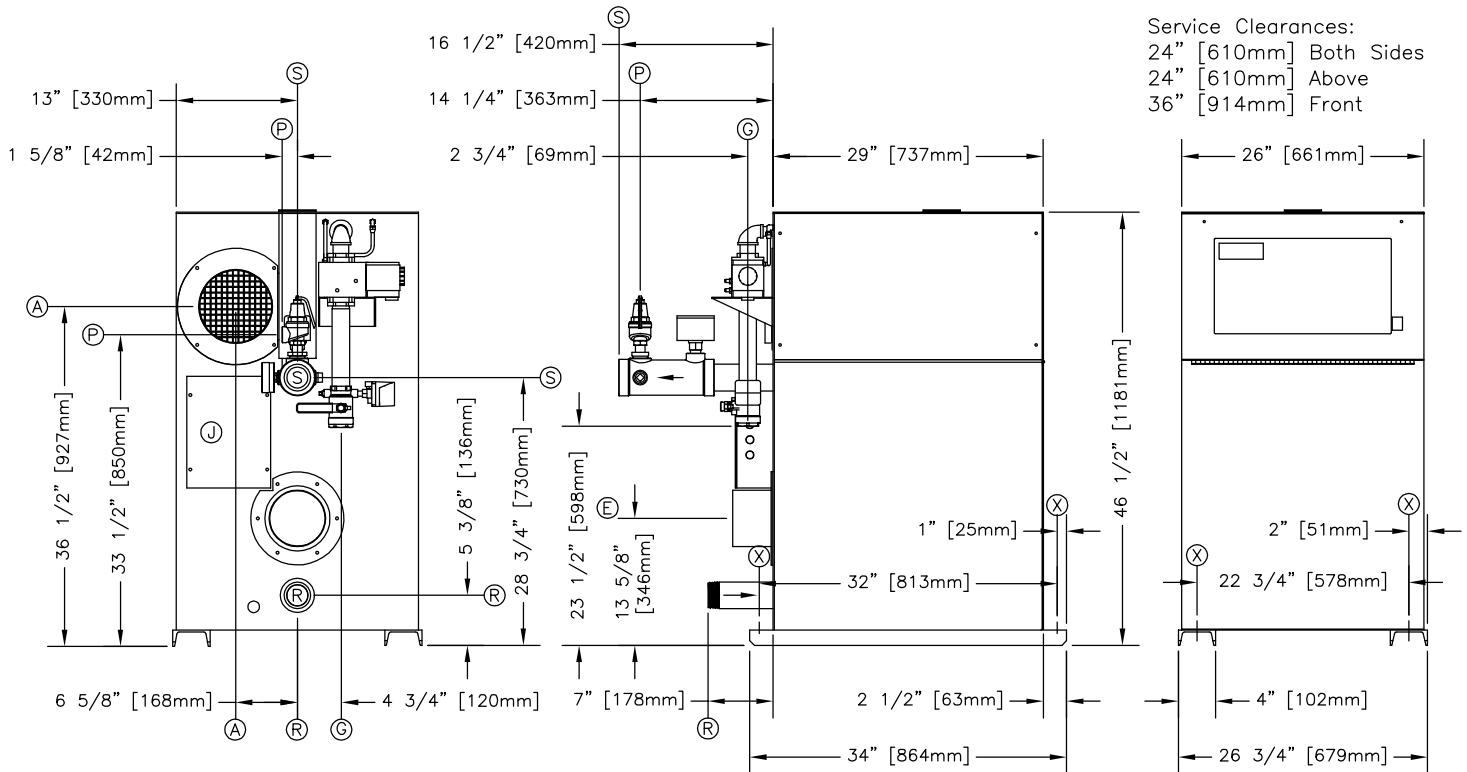
A.S.M.E. Section IV Design Data	
Maximum Pressure	160 psig
Maximum Temperature	250°F
Heating Surface	116 sq ft
Flow Rate, GPM	60min/120max

Pressure Relief Valve/Press-Temp Gauge		
<input type="checkbox"/>	100 PSIG 3/4" (standard)	0-240psi/30-240°F
<input type="checkbox"/>	30 PSIG 1 1/4"	0-100psi/30-240°F
<input type="checkbox"/>	50 PSIG 1"x 1 1/4"	0-100psi/30-240°F
<input type="checkbox"/>	60 PSIG 1"	0-100psi/30-240°F
<input type="checkbox"/>	75 PSIG 1"	0-240psi/30-240°F
<input type="checkbox"/>	80 PSIG 3/4"x 1"	0-240psi/30-240°F
<input type="checkbox"/>	125 PSIG 3/4"	0-240psi/30-240°F
<input type="checkbox"/>	150 PSIG 3/4"	0-240psi/30-240°F

**HARSCO**  
**INDUSTRIAL**  
 Patterson-Kelley

# P-K Modu-Fire® FD Model N750MFD 6" Vent

ENVI™ Control



The Modu-Fire® FD Boiler requires category IV venting (condensing—positive pressure) 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
(E) Exhaust Vent	6" OD
(G) Main Gas Connection	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, ENVI™ Series	
Operating Thermostat, 140°-220°F (60°-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	

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)

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C.S.A. CERTIFIED RATINGS AND CAPACITIES	
Fuel	<input type="checkbox"/> Natural Gas(NG) <input type="checkbox"/> Propane(LP)
Input, BTU/hr	750,000max/200,000min
Output, BTU/hr	637,500max/170,000min
Boiler HP	19.0
Maximum Inlet Gas Pressure	14" w.c.
Minimum Inlet Gas Pressure	NG: 5" w.c. LP: 7" w.c.

Electrical Requirements	208/230v, 1ph w/neutral, 60hz
Total Operating Amps	less than 12 amps
Operating Weight	800 lbs.
Water Content	6.2 gallons

A.S.M.E. Section IV Design Data	
Maximum Pressure	160 psig
Maximum Temperature	250°F
Heating Surface	116 sq ft
Flow Rate, GPM	60min/120max

Pressure Relief Valve/Press-Temp Gauge		
<input type="checkbox"/>	100 PSIG 3/4" (standard)	0-240psi/30-240°F
<input type="checkbox"/>	30 PSIG 1 1/4"	0-100psi/30-240°F
<input type="checkbox"/>	50 PSIG 1" x 1 1/4"	0-100psi/30-240°F
<input type="checkbox"/>	60 PSIG 1"	0-100psi/30-240°F
<input type="checkbox"/>	75 PSIG 1"	0-240psi/30-240°F
<input type="checkbox"/>	80 PSIG 3/4" x 1"	0-240psi/30-240°F
<input type="checkbox"/>	125 PSIG 3/4"	0-240psi/30-240°F
<input type="checkbox"/>	150 PSIG 3/4"	0-240psi/30-240°F

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