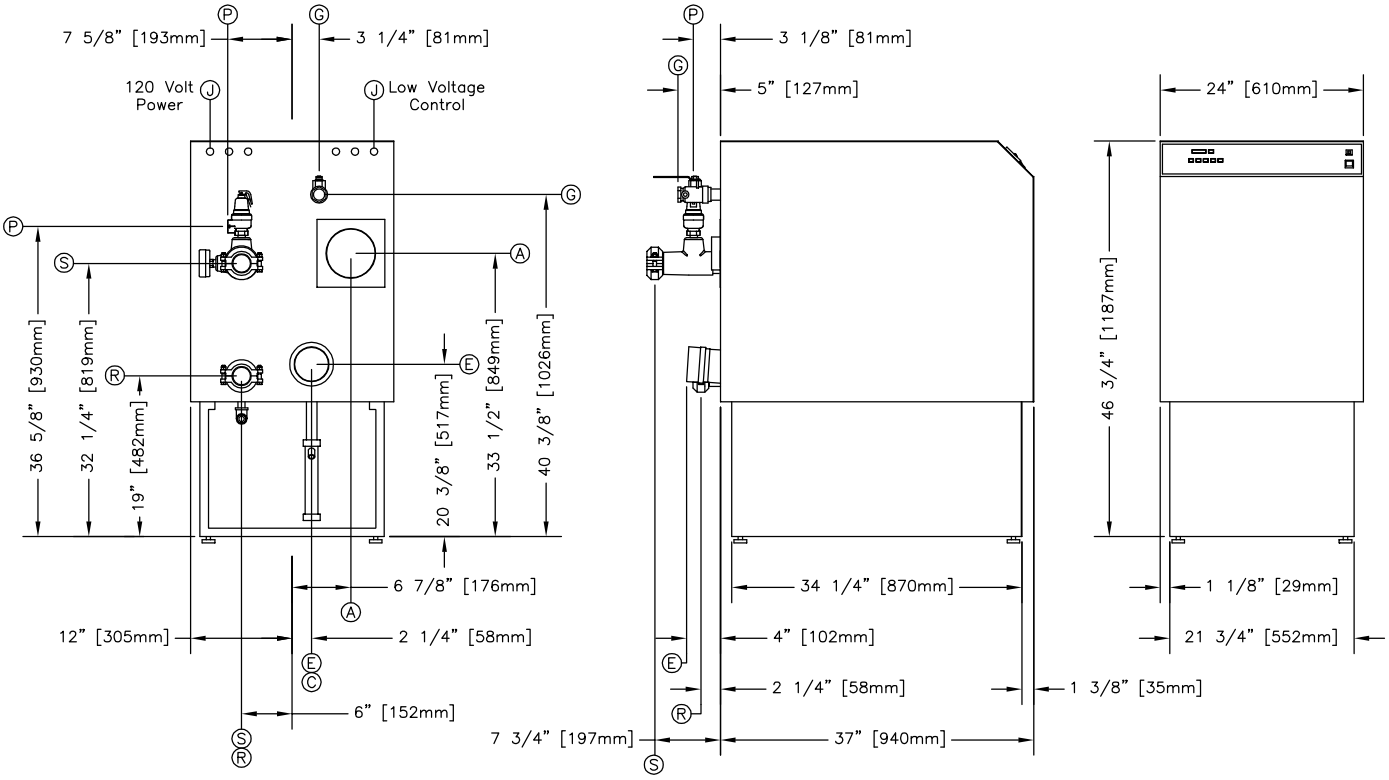
MACH ® Model C-300



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

The MACH® Boiler requires category IV venting (condensing–positive pressure) as defined in ANSI Z223.1/NFPA 54/CSA–B.149 Latest Edition. Patterson–Kelley reserves the right to make changes at any time without notification.

BOILER CONNECTIONS:	
Ⓐ Combustion Air Inlet	6" dia stub
Ⓒ Condensate Drain	3/4"
Ⓔ Exhaust Vent	100mm ID (4"nom ID)
Ⓖ Main Gas Connection	3/4" NPT–F
Ⓙ Wiring Junction Boxes	as marked
Ⓟ Pressure Relief Valve	see list for selection
Ⓡ Boiler Water Return, Victaulic clamp	2" pipe, grooved
Ⓢ Boiler Water Supply, Victaulic clamp	2" pipe, grooved

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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, MCBA Series
Operating Thermostat, 70°–195°F (21°–91°C)
High Limit Thermostat, Manual Reset, 100–200°F (38°–93°C)
High Exhaust Pressure Switch, Manual Reset
LWCO, Probe Type, Manual Reset
Air Switch, Differential Pressure Type
Combustion Blower, Variable Speed, 100 watt (0.13 hp)

C.S.A. CERTIFIED RATINGS AND CAPACITIES		
Fuel	☐ Natural Gas(NG)	☐ Propane(LP)
Input, BTU/hr		300,000
Output, BTU/hr		276,000
Boiler HP:		8.3
Maximum Inlet Gas Pressure:		14"w.c.
Minimum Inlet Gas Pressure:		3.5"w.c.

Electrical Requirements	120v, 1ph, 60hz
Total Operating Amps	less than 5 amps
Operating Weight	420 lbs.
Water Content	2.9 gallons

A.S.M.E. Section IV Design Data	
Maximum Pressure	80 psig
Maximum Temperature	200°F
Heated Wet Surface Area:	10.66 sq.ft.
Flow rate @ 20°F ΔT	28 GPM
Flow rate @ 40°F ΔT	14 GPM

Pressure Relief Valve	Press/Temp Gauge
☐ 80 PSIG 3/4" x 1" (standard)	0–240psi/30–240°F
☐ 30 PSIG 3/4"	0–100psi/30–240°F
☐ 50 PSIG 3/4"	0–100psi/30–240°F
☐ 60 PSIG 3/4"	0–100psi/30–240°F
☐ 75 PSIG 3/4" x 1"	0–240psi/30–240°F

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