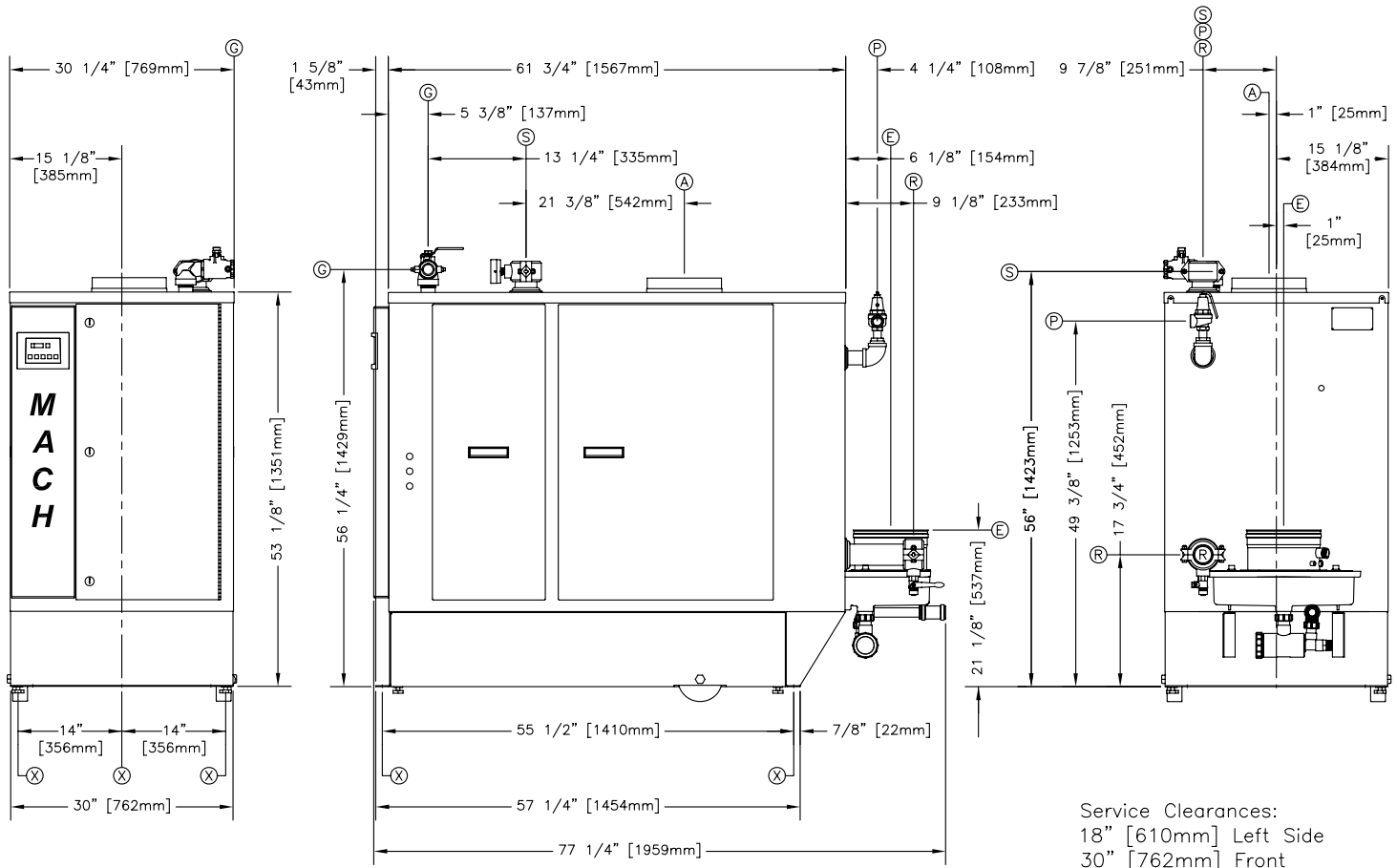


MACH[®] Model C-2000

ENVI[®] Control



The MACH[®] Boiler requires category II venting (condensing–negative pressure) or 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	10" dia stub
(C) Condensate Drain	1" PVC
(E) Exhaust Vent	250mm ID (10"nom ID)
(G) Main Gas Connection	1 1/2" NPT–F
(J) Wiring Junction Boxes	inside cabinet
(P) Pressure Relief Valve	see list for selection
(R) Boiler Water Return, Victaulic [®] clamp	2 1/2" pipe, grooved
(S) Boiler Water Supply, Victaulic [®] clamp	2 1/2" pipe, grooved
(X) Anchor Bolt Locations	(6) 9/16" dia holes

Victaulic is a registered trademark of Victaulic Company, Easton, PA, USA

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, 70°–195°F (21°–91°C)
High Limit Thermostat, Manual Reset, 100–197°F (38°–92°C)
High Exhaust Pressure Switch, Manual Reset
LWCO, Probe Type, Manual Reset
Air Switch, Differential Pressure Type
Combustion Blower, Variable Speed, 880 watt (1.18 hp)

C.S.A. CERTIFIED RATINGS AND CAPACITIES

Fuel	<input type="checkbox"/> Natural Gas(NG)	<input type="checkbox"/> Propane(LP)
Input, BTU/hr	2,000,000	
Output, BTU/hr	1,920,000	
Boiler HP:	57.4	
Maximum Inlet Gas Pressure:	14" w.c.	
Minimum Inlet Gas Pressure:	3" w.c.	

Electrical Requirements	120v, 1ph, 60hz
Total Operating Amps	less than 15 amps
Operating Weight	1600 lbs.
Water Content	24.6 gallons

A.S.M.E. Section IV Design Data

Maximum Pressure	100 psig
Maximum Allowable Temperature	200°F
Maximum Operating Temperature	194°F
Heated Wet Surface Area:	99.9 sq.ft.
Flow rate @ 20°F ΔT	192 GPM
Flow rate @ 40°F ΔT	91 GPM

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

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