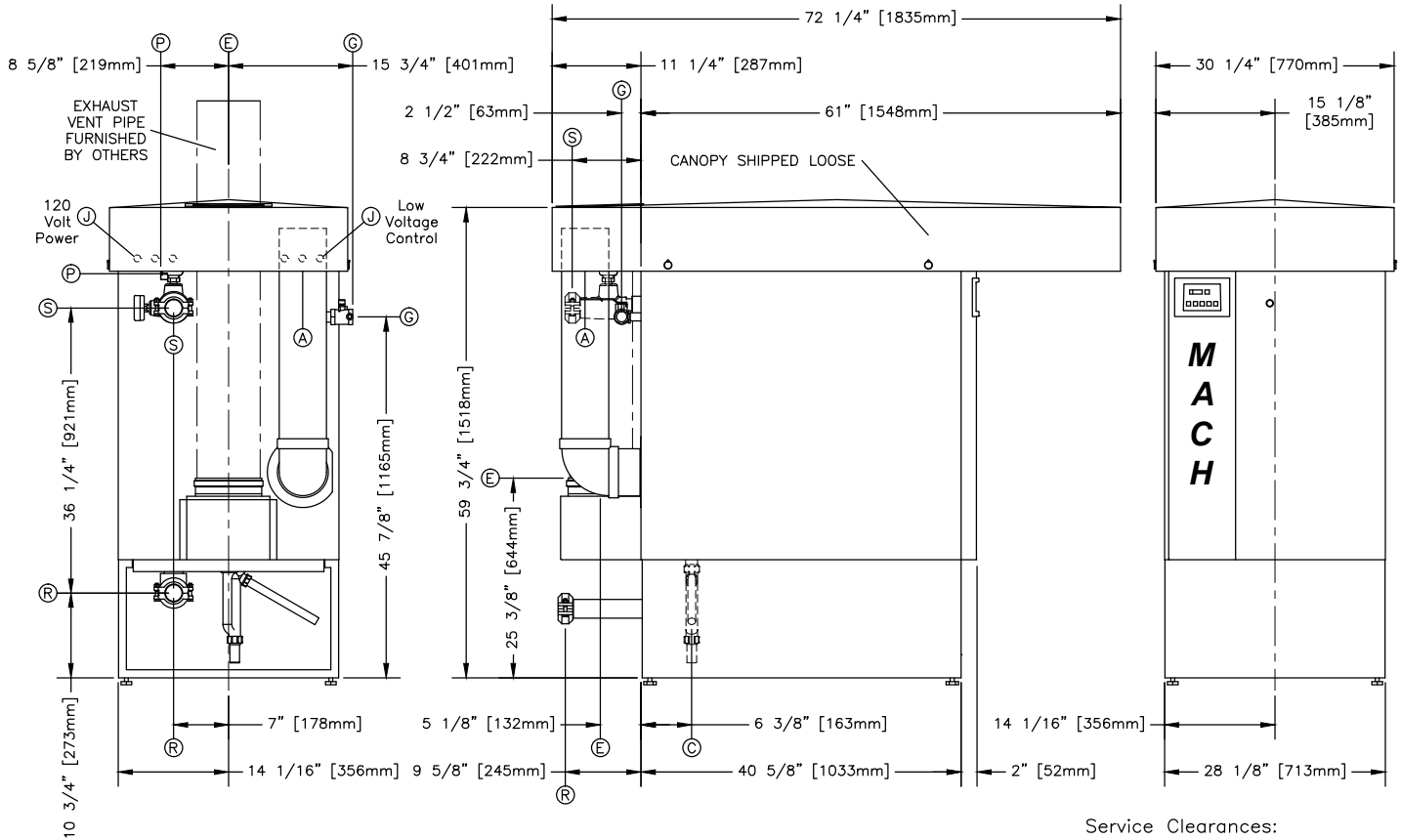


# MACH<sup>®</sup> Model C-1050

ENVI<sup>®</sup> Control WITH OUTDOOR KIT



Service Clearances:  
 30" [610mm] Above  
 36" [914mm] Front

The MACH<sup>®</sup> 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	6" pipe (under canopy)
(C) Condensate Drain	3/4"
(E) Exhaust Vent	200mm ID (8"nom ID)
(G) Main Gas Connection	1" NPT-F
(J) Wiring Junction Boxes	as marked
(P) Pressure Relief Valve	see list for selection
(R) Boiler Water Return, Victaulic <sup>®</sup> clamp	2" pipe, grooved
(S) Boiler Water Supply, Victaulic <sup>®</sup> clamp	2" pipe, grooved

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 <sup>®</sup> Series	
Operating Thermostat, 70°-195°F (21°-91°C)	
High Limit Thermostat, Manual Reset, 100-200°F (38°-93°C)	
High Exhaust Pressure Switch	
LWCO, Probe Type, Manual Reset	
Air Switch, Differential Pressure Type	
Combustion Blower, Variable Speed, 300 watt (0.4 hp)	

C.S.A. CERTIFIED RATINGS AND CAPACITIES	
Fuel	<input type="checkbox"/> Natural Gas(NG) <input type="checkbox"/> Propane(LP)
Input, BTU/hr	1,050,000
Output, BTU/hr	987,000
Boiler HP:	29.5
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	840 lbs.
Water Content	7.3 gallons

A.S.M.E. Section IV Design Data	
Maximum Pressure	80 psig
Maximum Allowable Temperature	200°F
Maximum Operating Temperature	194°F
Heated Wet Surface Area:	25.69 sq.ft.
Flow rate @ 20°F ΔT	99 GPM
Flow rate @ 40°F ΔT	50 GPM

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

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