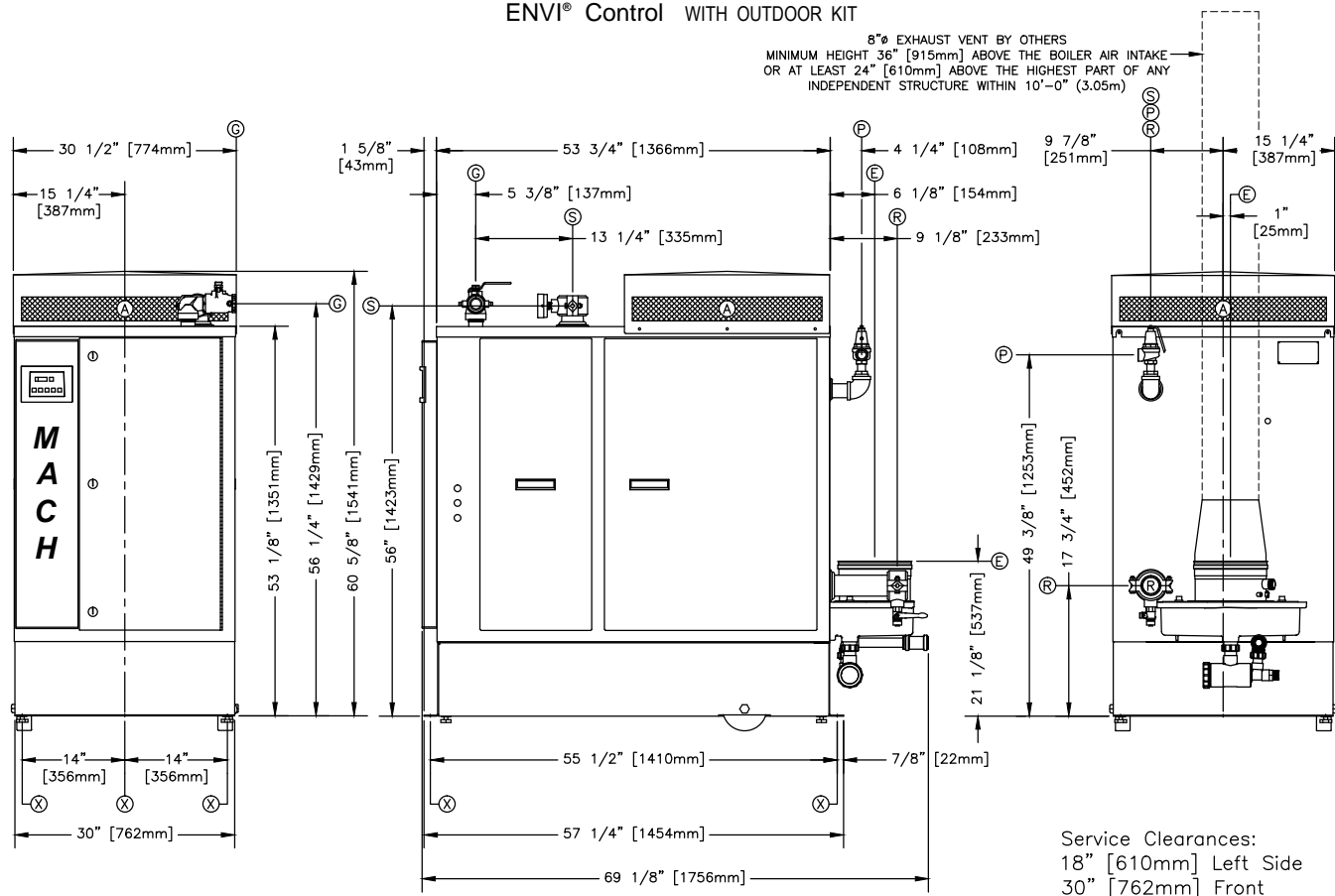


MACH® Model C-1500

ENVI® Control WITH OUTDOOR KIT



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:

Ⓐ Combustion Air Inlet	10" dia stub
Ⓒ Condensate Drain	1" PVC
Ⓔ Exhaust Vent	250mm ID (10"nom ID)
Ⓒ Main Gas Connection	1 1/2" NPT-F
Ⓐ Wiring Junction Boxes	inside cabinet
Ⓐ Pressure Relief Valve	see list for selection
Ⓐ Boiler Water Return, Victaulic® clamp	2 1/2" pipe, grooved
Ⓐ Boiler Water Supply, Victaulic® clamp	2 1/2" pipe, grooved
Ⓐ 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

LWCO, Probe Type, Manual Reset

Air Switch, Differential Pressure Type

Combustion Blower, Variable Speed, 880 watt (1.18 hp)

RATINGS AND CAPACITIES

Fuel	<input type="checkbox"/> Natural Gas(NG) <input type="checkbox"/> Propane(LP)
Input, BTU/hr	1,500,000
Output, BTU/hr	1,440,000
Boiler HP:	43.0
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 1350 lbs.
Water Content 19 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:	74.9 sq.ft.
Flow rate @ 20°F ΔT	144 GPM
Flow rate @ 40°F ΔT	72 GPM

Pressure Relief Valve/Press-Temp Gauge Shipped Loose for Field Installation

<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"/> 100 PSIG	3/4"	0-240psi/30-240°F
<input type="checkbox"/> 125 PSIG	3/4"	0-240psi/30-240°F

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