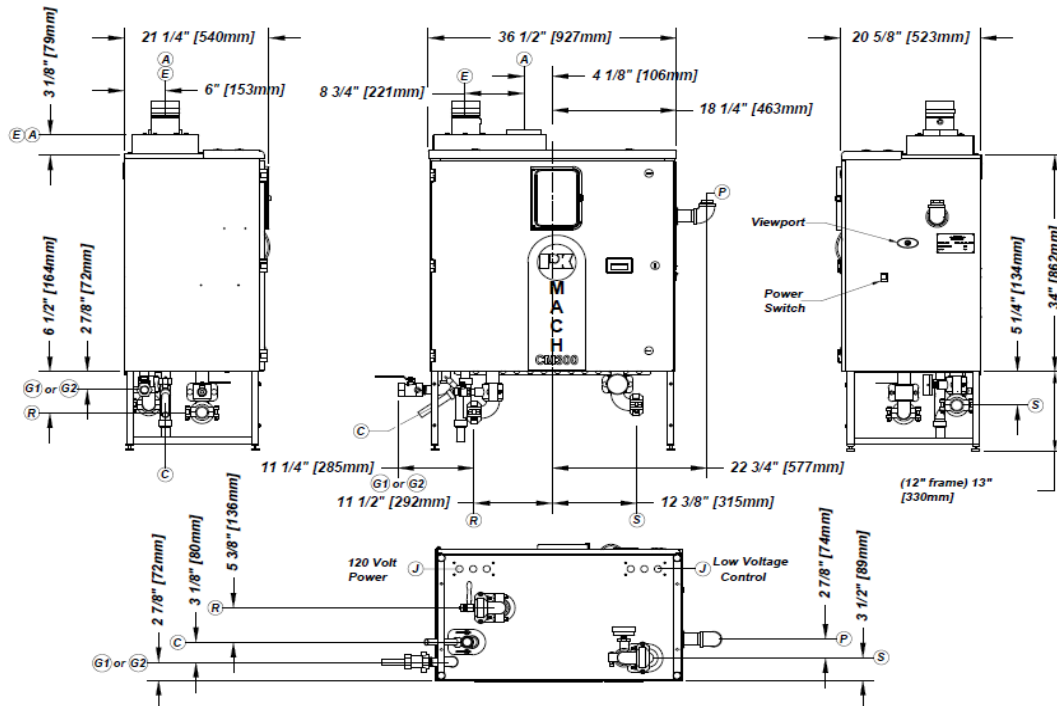


Rep Name: _____

Email: _____

Phone Number: _____

Date: _____ / _____ / _____



This MACH boiler requires Category IV venting (condensing-positive pressure) or Category II venting[†] (condensing -negative pressure) as defined in ANSI Z223.1/NFPA 54/CSA-B.149 latest edition.

[†]Category II venting must include the optional combustion air damper

BOILER CONECTIONS		
A	Combustion Air Inlet	5" dia. stub
C	Condensate Drain	3/4" hose
E	Exhaust Vent	4"
G1	Propane Gas	1" NPT-F
G2	Natural Gas	1" NPT-F
J	Wiring Junction Boxes	inside cabinet
P	Pressure Relief Valve	see list for options
R	Boiler Return, Victaulic® clamp	1 1/2" pipe, grooved
S	Boiler Supply, Victaulic clamp	1 1/2" pipe, grooved

BOILER CONTROLS	
ASME CSD-1 is standard	
Complies with: GE GAP (IRI) guidelines GAP.4.1.0 and GAP.4.1.3	
FM Global 6-4 Section 1.0	
Main Gas Train with Dual Shut-off	
Integrated Boiler Control, NURO Series	
Operating Thermostat, 42°-195°F (5.6°-91°C)	
High Limit Thermostat, Manual Reset, 100°-197°F (38°-92°C)	
High Exhaust Back Pressure Switch	
LWCO, Probe Type, Manual Reset	
Combustion Air Proving Switch, Differential Pressure Type	
Combustion Blower, Variable Speed, 300 Watt	

A.S.M.E. SECTION IV DESIGN DATA	
Max Pressure	80 PSIG
Max Allowable Temperature	250°F
Max Setpoint	185°F
Heated Wet Surface Area	12.29 sq. ft.
Flow Rate @ 20°FΔT	28 GPM
Flow Rate @ 40°FΔT	14 GPM

MODEL SELECTION		
Boilers		
Fuel Options	☐ Natural Gas	☒ CM-300
Min Inlet Gas Pressure	3.5" w.c.	☐ Liquid Propane 7.0" w.c.
Max Inlet Gas Pressure	14" w.c.	
Input (BTU/hr)	300,000	
Output (BTU/hr)	279,000	
Boiler HP	8.3	
Operating Weight	290 lbs.	
Shipping Weight	420 lbs.	
Boiler Water Content	1.2 gallons	
Shipping Dimensions	58"x38"x63" (LxWxH)	
Power Supply	120V 1ph 60 Hz	
Operating Current	< 5 Amps	
Recommended Minimum Circuit Capacity	10 Amps	

PRESSURE RELIEF VALVE/PRESSURE-TEMPERATURE GAUGE		
Shipped Loose for Field Installation		
☐ 30 PSIG 3/4"x 1"	15-160 psi/0-250°F	
☐ 50 PSIG 3/4"x 1"	15-160 psi/0-250°F	
☐ 60 PSIG 3/4"x 1"	15-160 psi/0-250°F	
☐ 75 PSIG 3/4"x 1"	15-160 psi/0-250°F	
☐ 80 PSIG 3/4"x 1"	15-160 psi/0-250°F	

RECOMMENDED CLEARANCE FOR SERVICE ACCESS				
Front - 36"	Rear - 0"	Top - 24"	Left Side - 2"	Right Side - 24"

Notes:
 - Victaulic is a registered trademark of Victaulic Company, Easton PA, USA
 - Patterson-Kelley reserves the right to make changes at any time without notification



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