

# Thermal Equipment Corporation Preventative Maintenance Service

## COMBUSTION HEATED AUTOCLAVE

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*During a Preventative Maintenance, the following items will be completed to ensure that your system is running correctly and safely. A qualified TEC maintenance technician should complete these items regularly.*

### A. PNEUMATIC SYSTEMS

- Drain and adjust all instruments and valve air regulators
- Test, clean and range all I/P transducers
- Inspect and range all pneumatic control valves
  - ◆ Pressuring / vent valves
  - ◆ Vacuum / vent valves
  - ◆ Cooling valve

### B. COMBUSTION SYSTEMS

- Calibrate "heat – cool" I/P (current to pressure) transducer
- Inspect / adjust main gas line regulator
- Inspect / adjust high gas pressure safety device
- Inspect / adjust low gas pressure safety device
- Inspect / adjust main gas valves proof of closure device
- Inspect / adjust blowers pressure switch safety devices
- Replace ignition spark plug (Type: UY6) and cable
- Adjust pilot flame intensity
- Set flame intensity on both ranges high and low fire
- Test all safety interlocks.
- Calibrate combustion chamber "over temperature" controller

### C. COOLING SYSTEM

- Inspect cooling system
- Inspect cooling coil & flex hoses for reliability

\*\*\*Water treatment excluded and is a customer responsibility\*\*\*

### D. MOTORS, PUMPS, ETC.

- Inspect and grease fan motor
  - Check fan motor cooling coil to ensure proper cooling
  - Pressure test if needed for leaks
  - Replace fan motor gasket if needed (Customer to supply replacement seal)
  - Inspect and grease all motors and pumps
- \*\*\*Customer to supply required crane\*\*\*

### E. VACUUM SYSTEM

- Inspect / drain all vacuum receivers for water / condensation
- Inspect / clean any strainers on water type pump
- Replace oil and filter on oil type pump
- Inspect operation of vacuum source valves
- Inspect 715-2000 valve filters

Customer Signature: \_\_\_\_\_

TEC Technician: \_\_\_\_\_

### F. DOOR SYSTEM

- Inspect / clean and grease door wedges
- Inspect and adjust manual door bolt
- Perform visual on door lock ring system – yearly
- Inspect door seal and heat seal (Customer to supply replacement seals)
- NDE of door quoted as an option
- Grease rear ring of autoclave door system

### G: MOTOR CONTROL CENTER

- Inspect motor starters
- Inspect & tighten all load side connections

### H. SAFETY SYSTEMS

- Back flush pressure sense line
  - Adjust and test pressure in autoclave switch
  - Adjust and test autoclave over pressure switch
  - Test "Person-in-Clave" system
  - Test over temperature alarm
  - Replace rupture disc and relief valves
- \*\*\*Customer to supply certified valves & discs\*\*\*

### I. PART MONITORING SENSORS

- Test T/C panels and passthroughs
- Test vacuum transducers
- Assist with system calibration, if required
- Record and document all control settings (i.e. software configuration, controllers, chart recorder, etc)

**FINAL REPORT:** TEC will supply a report on the overall condition of the autoclave and components after the PM has been completed. TEC can also provide a quotation for repairs or upgrades if requested.

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