

## Quarterly Preventative Maintenance

Maintenance to be Performed by an Experienced Technician Once Per Quarter on all Steampunk Machines

- **Review Technical Bulletins**
  - Detailed technical bulletins can be found on our website, listed below
  - Check for any relevant updates
- **Deep Clean Machine**
  - Wipe down the outside of machine
  - Clean grooves in between glass and metal flanges
- **Disassemble Crucible Pour Spouts**
  - Remove 4x HW-136 with a small flathead screwdriver
  - Remove spout plug.
  - Remove spout internal
  - Clean all components
- **Check Bottom Glass Torque**
  - Check torque on bottom glass before reattaching pour spout
  - Torque on glass should be exactly 0.5 N-m (4.5 inch-lbs)
- **Reassemble Crucible Pour Spouts**
  - Replace OR-017 pour spout to bottom flange O-Ring
  - Apply food-grade Loctite (HW-248) to 4x HW-136
  - Firmly fasten to bottom flange
- **Start Five-Minute Vacuum Test**
  - Test bottom chamber for leaks
- **Rebuild Pistons**
  - Replace all relevant O-Rings using piston O-ring kit
- **Disassemble Crucible Slider Blocks**
  - Remove 2x HW-143
  - Remove 2x HW-130
  - Clean all components
- **Check Top Glass Torque**
  - Check torque on top glass before reattaching slider block
  - Torque on glass should be exactly 0.5 N-m (4.5 inch-lbs)
- **Reassemble Crucible Slider Blocks**
  - Apply food-grade Loctite (HW-248) to HW-143 and HW-130
  - Firmly fasten to top flange
- **Check Water Quality**
  - Check water filtration quality, pressure (60+ psi), and flow rate (6+ liters/minute) according to Steampunk specifications
- **Inspect Boiler**
  - Inspect boiler for signs of mineral buildup or leakage
- **Dial in Pressure Regulator Box**
  - During fill process ensure that Boiler regulator psi is between 40-70 psi (when water is flowing)
  - Ensure that crucible psi is accurate for appropriate fill temp
- **Inspect Drain System**
  - Inspect drain system for proper pitch and clogs