

# EQUIPMENT MAINTENANCE

## SENTRY VEHICLE DISINFECTING SYSTEM

Preventative maintenance will keep the Sentry Vehicle Disinfecting System working better, longer.

There are some things to keep in mind as you begin the cleaning and maintenance process:

- Incoming water supply pressure must be greater than 25 PSI and not exceed 65 PSI.
- DO NOT run the pump and motor during the flushing procedure.

To prepare the system for use:

- Isolate the motor voltage at the circuit breaker.
- Activate the control circuit voltage at the circuit breaker.
- Verify all filter cartridges have been installed in the systems filtration assembly.
- Slowly and only partially open the isolation valve for the incoming water supply, allowing water to slowly enter the filter housing assembly. This MUST be done slowly to prevent an air pocket from forming within the filter housing assembly.
- When the 0-100 PSI gauges on the filter assembly indicate full pressure, fully open the incoming water supply isolation valve.
- Turn on the controller to flush the arch. Flush for 1 minute.
- When finished flushing, turn off the controller.
- Close isolation valves at the start of the spray arch.
- Activate the motor voltage at the circuit breaker.
- Pressurize the system to verify all compression fittings are secure.
- Turn on the pump unit. The units inlet solenoid will open and there will be a short delay before the motor will start.
- Maximum system pressure is achieved when all automatic drain valves are closed.
- Required adjustments to system pressure can be made by adjusting the brass nut on the pump unit pressure regulator.

- Place the pump unit in auto mode.

Throughout the hot weather season, we recommend following a maintenance schedule.

**Daily:**

- Check system for leaks.

**Weekly:**

- Check system pressure. If there's a 10 PSI drop, replace 5 micron filter. If it persists, replace 1 micron filter.

**Monthly:**

- Add 4 drops of light weight oil in the small weep hole in the side of the regulator.
- Inspect the automatic drain. Replace if drain does not seal during operation.
- Inspect and clean nozzles.
- Inspect pressure gauges.

**Quarterly:**

- Change pump crankcase oil after first 50 hours of operation, then every 300 hours (or three months, whichever comes first). Refill with General Pump Series 100 oil, 16 oz bottle. Pump capacity is 40.6 oz.

**Semi-annually:**

- Inspect and clean filter housing.

**Yearly:**

- Grease motor bearings with Polyrex EM grease.