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Preparing for Spring High Pressure Fogging

Preventative maintenance will keep high pressure fog systems working better, longer.

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

- Always discard dirty filter cartridges. Never wash and reuse them.
- On new systems, change crankcase oil after first 50 hours of operation.
- Required adjustments to the system pressure can be made by adjusting the brass nut on the pump unit's pressure regulator.

To prepare the fogging system for use:

- ☐ Remove all automatic drain valve assemblies or flush valve kits from the ends of the nozzle lines or mainline tubing.
- ☐ Lock-out tag-out the motor circuit for the pump assembly. Leave power to the pump control.
- ☐ Close all isolation ball valves EXCEPT ONE.
- ☐ Verify all filter cartridges are installed.
- ☐ Verify the high pressure hose is connected to the discharge pump and mainline tubing.
- ☐ If using a 10TS water treatment injection system, verify it is assembled and ready to be primed.
- ☐ SLOWLY and ONLY PARTIALLY open the isolation valve. This must be done slowly to prevent air pockets forming in the filter housing.
- ☐ Fully open the isolation valve when the 0-100 PSI gauge is at full pressure.
- ☐ Place pump unit controller in the ON/MANUAL position.
- ☐ Allow water to flush the open nozzle line for one minute for every 100 feet of nozzle line.
- ☐ Open the ball valve at the next nozzle line, and close the previous one. Repeat until all lines have been flushed.
- ☐ Turn off pump unit controller.
- ☐ Reinstall automatic drain valves or flush valve kits.
- ☐ Open all isolation ball valves.
- ☐ Turn on power to the system.
- ☐ Pressurize the system and check all compression fittings are secure.
- ☐ Turn on pump units. The pump unit solenoid will open. There will be a short delay before the pump motor starts.
- ☐ Maximum system pressure is achieved when all automatic drain valves are closed.

See Page 2 for routine maintenance guidelines.
Throughout the hot weather season, we recommend following a maintenance schedule.

Daily:
- ☐ Check system for leaks.

Weekly:
- ☐ Observe nozzle operation. Clean any debris build-up from exterior of nozzle orifice with a nozzle cleaning brush while the system is in operation.

Monthly:
- ☐ Check that drain valves seal completely when the system is fully pressurized and drain for several seconds when the system shuts off. If they do not, remove the valves and inspect for debris around the spring or plunger.
- ☐ Check filter cartridges. If the 0-100 supply gauges show a 10 PSI differential between them, the primary (5 micron) filter cartridge should be changed. If the differential persists, the 1 micron filter should be replaced.
- ☐ Oil Pressure Regulator with lightweight oil. BR5 gets two drops; BR10 gets four drops. See Image 1.
- ☐ Inspect gauges and replace if faulty.
- ☐ Check that belts are not worn or cracked, if applicable. Replace if needed

Quarterly:
- ☐ Change pump oil with General Pumps 30 weight non-detergent oil. Amount and grade may vary depending on pump model.



Image 1

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