

In an effort to service customers using high levels of oxidizers in their spray equipment that face testing for heavy metals, Dramm conducted trials with their Hydra line of spray equipment to determine if the brass components leached any materials into the water circulated and pressurized with the piston pump on the unit.

Initial testing occurred with our existing, standard equipment that utilized a number of brass fittings and manifolds in both the bypass and spray pressure systems. Testing occurred as follows:

1. Machine was filled with 20 gallons of water. A sample of this water was taken and labelled "plain water."
2. This plain water was circulated through the bypass system of the Hydra for 1 hour and a sample was taken and labelled "recirculated water."
3. System was drained and refilled with 20 gallons of water and 51.2 oz of ZeroTol*, representing a 1:50 ratio. A sample was taken and labelled "water and ZeroTol."
4. This water and ZeroTol was circulated through the bypass system of the Hydra for 1 hour and a sample was taken and labelled "recirculated water and ZeroTol."

Each sample was sent to an independent lab for analysis with the following results.

Plain water, recirculated water, water and ZeroTol all showed no-lead. Recirculated water and ZeroTol showed 700 ppb of lead indicated that lead had leached from the metals used in the system.

HYDRA-CRF

Dramm's new Corrosion Resistant Fittings (CRF) version of the Hydra eliminates the brass fittings replacing them with stainless or plated components. The pump still contains some brass components that are minorly wetted.

The same testing procedure was employed as with the standard HYDRA sprayer using the new CRF version and found that no detectible levels of lead were present after recirculation with water and ZeroTol at a 1:50 ratio.

The New HYDRA-CRF is available for use with corrosive oxidizers.

WARNING: Do not use any sprayer with reverse osmosis water (RO) as this can damage even stainless steel components. RO water with oxidizers or acids will cause damage more quickly.

Please contact us with questions.

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**ZeroTol is a product of BioSafe Systems, LLC*