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## **TECHNICAL BULLETIN 245**

### **Conversion to a Mi-Glow<sup>®</sup> Oil Bath From An Oil Bath System**

#### **Cleaning Instructions Prior To Initial Charge**

Before charging a system for the first time with Mi-Glow<sup>®</sup> oil-based particles, it is important that the system be thoroughly cleaned and flushed. The Mi-Glow<sup>®</sup> particles may not be compatible with those previously used; causing interactions between the different particles that will adversely affect performance. This thorough clean-out should include not only the tank itself, but also all of the pumps, hoses, and recirculating equipment. These are the most likely areas for particles to settle, as well as get hung up. This will permit optimum operating conditions for the oil-based Mi-Glow<sup>®</sup> products.

The following procedure is recommended for cleaning out the tank prior to recharging. Be aware that clean-out of a oil bath system can be difficult due to the fact that oil coats all exposed surfaces with a continual film, hence most exposed surfaces will contain varying amounts of residual particles. The clean-out is complicated by the fact that ordinary cleansers cannot be easily used. The following recommendations will offer an initial clean-out. It will not provide a complete clean-out due to the aforementioned complications, and the user should be aware that varying degrees of contamination might be present during the first few conversions.

1. Drain the tank system completely.
2. Fill the tank with CircleSol MT<sup>™</sup>, or other approved refined petroleum distillate, to the normal operating level. Turn on the recirculating pump and any other agitation that is present. Run the solution through the discharge hoses. Scrubbing of certain areas may be required. The length of time for this operation will depend upon individual situations but 15 minutes is generally sufficient.
3. Drain the system.
4. Fill the tank with solvent and charge the system.

**IMPORTANT!** The cleaning process above should be effective for removing gross contaminants and most residual foreign materials in the system. The oil-bath chemistry in Circle Systems products continues to remove remaining residual materials as it is used. It is typical that the first bath of Circle Systems products will show the effects of contamination (including reduced brightness and/or sensitivity of particle indications). The second and succeeding baths should not show these signs unless the bath is subject to continued contamination.

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