

MicroMagic

Membrane Filtration System



MicroMagic-100

Microfiltration Benefits

- *Improved Cleaner Performance*
- *Improved Process Consistency*
- *Greatly Extended Cleaner Life*
- *Reduced Oil Dragout*
- *Reduced Waste Volume*
- *Reduced Waste Treatment Costs*
- *Lower Sludge Volume*
- *Component of 0-Discharge System*

System Operation

Aqualogic's MicroMagic filtration systems allow the user of cleaning baths to extend the life of their cleaning solutions up to ten times the unfiltered life. The Micro-Magic system uses microfiltration to remove emulsified oils and spent surfactants, allowing cleaner salts and active surfactants to pass, returning purified cleaner to the process tank. Through continuous purification of the cleaner, the bath is maintained at highly effective levels, providing consistent product quality. Bath life of subsequent process solutions is also extended due to the reduction of the drag-in of emulsified oils.

Microfiltration employs a membrane with a larger pore size than Ultrafiltration, which has been used to purify oily water. The larger pore size of microfiltration will reject most oils and spent surfactants that are tied up with the oil while allowing virgin surfactants and detergent builders to pass through for reuse.

Microfiltration has been shown to be particularly effective in reducing the loading on waste treatment systems. Lower dump volumes of detergents reduce chemical use and sludge generation. Reduced oil loading improves solids settling and sludge filterability.

