

Fluitec Stealth Benefits

- Prevents atmospheric contamination from reaching the reservoir.
- Removes water not only from the headspace but also from the fluid itself as the fluid reaches equilibrium with the very dry air flowing across it.
- Prevents acid formation and contamination in the fluid.
- The exhausting air is dry enough to continually regenerate the desiccant breather, eliminating the time and labor associated for breather maintenance.
- A fraction of the price of any other water removal technology – provides extremely rapid ROI.

Application Profile 1: Electrohydraulic Control Systems

The phosphate esters (PE) in EHC fluids act like a sponge; they readily absorb large amounts of water from the air. Although OEMs typically allow water limits of 2000 ppm, this is far too high. Research shows that phosphate ester fluids hydrolyze to form acids and deposits at levels below 500 ppm.

EHC users are well aware of the damage to their systems caused by elevated water levels. Many plants have purchased vacuum dehydration systems to maintain acceptable moisture levels in their fluids. Vacuum dehydration systems are expensive to install (\$40,000+), expensive to operate, and expensive to maintain. Even with motors, PLCs, vacuum pumps and other sensitive components, these systems have been justified for appropriate maintenance practices on EHC system. Installing a Sahara system maintains moisture levels around 250ppm or below at a small fraction of the cost competing technologies.

This graph shows the immediate impact of installing a Stealth system on an EHC reservoir. In addition to lower water levels, this plant realized improved resistivity values, lower oxidation rates and less frequent change-outs of their acid scavenging filters.

