



Heat Transfer Systems Operational Challenges

When using heat transfer fluids for process temperature control, fluid contamination – especially the presence of water in the fluid – can result in significant downtime and potentially costly maintenance. Fluid contamination and water build-up increase your system's energy consumption, are a source of nuisance failures and cause internal components to break down prematurely.

Fortunately, there is a simple solution to reduce fluid contamination and water build-up in your heat transfer system – the ClearFlo PLUS System from Mokon.

In addition to the possibility of water being introduced to the heat transfer fluid, there are other causes for fluid contamination and degradation. When the heat transfer fluid breaks down, it produces carbon, which turns the fluid black. These concentrations of carbon will transform into coke residue – fine particles that quickly build up, coating heat transfer surfaces.

The presence of water in the fluid can also cause other problems, as it can alter the chemical composition of the fluid. If this happens, the fluid would act out of character, causing vapor pockets to occur, pumping problems due to viscosity changes and rusting of internal surfaces. The end results are nuisance shutdowns of heat transfer fluid systems, shortened fluid life, damaged system components and increased maintenance costs.

The ClearFlo PLUS System easily connects to your heat transfer fluid system's cool oil reservoir to remove contaminants, water and, in some cases, reduces the acidity of the fluid for longer fluid life and trouble-free system operation.



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ClearFlo PLUS System

*Heat Transfer Fluid Filtration
and Water Removal System*

- **Removes water from heat transfer fluid**
- **Reduces downtime and maintenance labor costs**
- **Reduces “nuisance” shutdowns caused by water vapor pockets**
- **Improves efficiency of your heat transfer system**
- **Reduces wear and damage to rotating parts**
- **Extends the life of pumps up to three times longer**
- **Reduces frequency of fluid changes**
- **Removes particles as small as 1/10 micron**

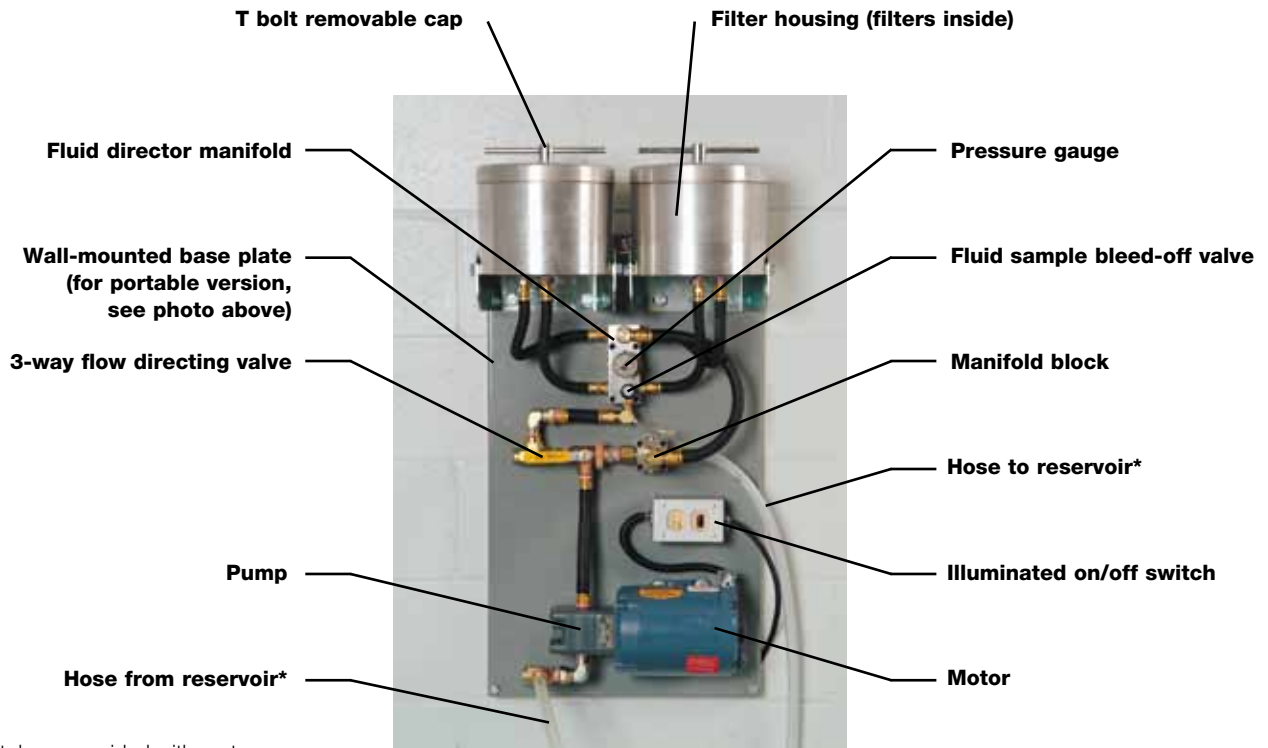
ClearFlo PLUS System keeps your machine up and running



If you consider downtime, maintenance labor and part replacement costs, the ClearFlo PLUS System should provide a **full return on investment** within six months to one year of installation. Typical results you can expect:

- Extend the life of pumps up to three times. (Typical pump repair can average \$900 per breakdown.)
- Reduce wear of rotating parts, including pump rotors, impellers, seals, valves and stems.
- Reduce frequency of fluid changes. With the replacement cost of a 55-gallon drum averaging about \$1,200, a reduction in the number of fluid changes will result in significant savings.
- Improve the efficiency of your heat transfer system.
- Can also be used as a transfer pump or to filter other fluids, such as hydraulic or lubricating oils.

ClearFlo PLUS portable design, connected to a Mokon HTF System.



*10 ft. hose provided with system

Permanent design

The ClearFlo PLUS System removes particles as small as 1/10 micron. Fluid flows downward between filter layers, trapping contaminants and water in the upper portion of the filter. Clean fluid then passes out the bottom of the unit and back into the system. When the filter is ready to be replaced, properly dispose of the used filter. Replace it with a new filter for continued fluid filtration. There are countless benefits to adding fluid filtration to your heat transfer system, the most significant being the **reduction of downtime and maintenance labor costs**.

Technical data shown is subject to change without notice. The company will endeavor to supply the equipment as illustrated but reserves the right to make dimensional and other design changes as required.



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