



Heat Transfer Fluid Systems Operational Challenges

When using heat transfer fluids for process temperature control, contamination can result in significant downtime and potentially costly maintenance. Fluid contamination increases your system's energy consumption, reduces its efficiency and causes internal components to break down prematurely.

Fortunately, there is a simple solution to reduce contamination in your heat transfer fluid system – the ClearFlo System from Mokon.

A number of circumstances can cause heat transfer fluid to degrade and become contaminated. 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 and /or creating a micro-sandblast effect that will wear down parts.

The ClearFlo System continuously filters heat transfer fluids without disrupting system operation, significantly reducing downtime and maintenance costs to your heat transfer system.



Designed to Perform. Built to Last.

ClearFlo System

Heat Transfer Fluid
Filtration System

- ▶ **Reduces downtime and maintenance labor costs**
- ▶ **Improves efficiency of your heat transfer system**
- ▶ **Reduces wear and damage to rotating parts**
- ▶ **Can triple the life of your heat pumps**
- ▶ **Reduces frequency of fluid changes**
- ▶ **Removes particles as small as 10 microns**



Typical new clean filter (left) with used filter (right).
Between 50-70% of all Heat Transfer System breakdowns can be traced to contaminated fluid.

ClearFlo System keeps your machine up and running



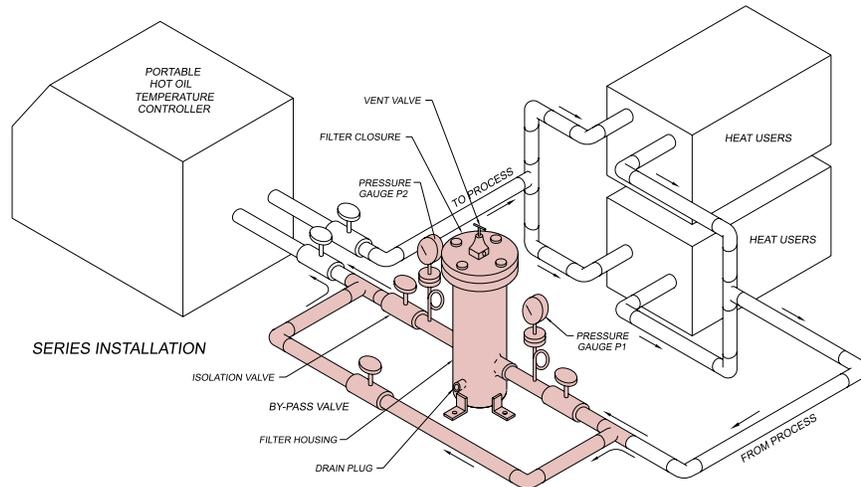
Portable version in-line with a Mokon HTF System, featuring the optional Delta P gauge.



Permanent version in use.

If you consider downtime, maintenance labor and part replacement costs, the ClearFlo 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 heat 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 up to \$1,200, a reduction in the number of fluid changes will result in significant savings.
- Improve the efficiency of your heat transfer system.



The ClearFlo System removes particles as small as 10 microns, then reintroduces the filtered fluid downstream or to the suction side of the existing recirculation system. The fluid passes through the filter at least 15-20 times per day to ensure continuous filtering. 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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