Paratherm™ LC

Heat Transfer Fluid

Cleans Large Systems — On The Fly — Safe, Easy Use ENGINEERING BULLETIN LC 1016

- Restores System Performance
- Dissolves Sludge as System Runs
- Maximum recommended use temperature 550°F (288°C)
- Minimal Downtime
- Compatible with any Mineral-Oil Based Fluid

Benefits

The Paratherm™ LC System Cleaner Liquid is specifically formulated to dissolve and suspend sludge deposits that can reduce flow — and thus heat transfer — in larger continuously operated systems. Compatible with mineral-oil based fluids, it operates while the system runs, eliminating the downtime involved with flushing fluids or chemical cleaning agents.

Instructions For Use

1. Install a 60 mesh screen in the Y-strainer to catch any large lumps that break loose.
2. Drain the equivalent amount of fluid from the system before adding the LC cleaner.
3. Add LC cleaner slowly using a positive displacement transfer pump and hoses of appropriate temperature range. Either pump LC cleaner liquid directly into system (near pump suction if possible) or pump into expansion tank and drain into system.
4. Allow cleaner to circulate until all loops are at operating temperature. Run system normally. Minimum suggested time is 3 weeks, maximum time is 1 year.
5. Clean Y-strainer screen as necessary.
6. To drain cleaner and fluid, shut off heater but allow pump to circulate until system temperature is cool enough to handle (180°F to 200°F). Do not turn off pump and allow system to cool as this will permit particles to settle out and contaminate the new fluid.
7. Drain system with pump running. Continue to run pump until it begins to cavitate or the low pressure switch shuts it off.
8. Continue draining as quickly as possible. Any delay will allow sludge to settle out in the piping where it will contaminate the new fluid.
9. Fill system with Paratherm fluid or a compatible brand and restart system.
10. One week after startup, send sample to fluid supplier for testing.

How Much Paratherm LC Cleaner To Use In Your System

a. Replace 3 to 12% of the volume of the system.

b. The percentage will vary depending upon how long you plan to let the cleaning continue as your system runs. For more precise information, contact your Paratherm representative about a fluid analysis and review.

NOTE: The cleaner can be used to clean the expansion tank if the heater is equipped with a warm-up valve. Make sure the tank is purged with nitrogen while the warm-up valve is open.

CAUTION: HOT FLUID CAN CAUSE SERIOUS BURNS. USE ADEQUATE PROTECTIVE CLOTHING AND FACE PROTECTION.

Visit http://paracalc.paratherm.com for detailed properties in a choice of temperature increments.

Paratherm™ HEAT TRANSFER FLUIDS
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