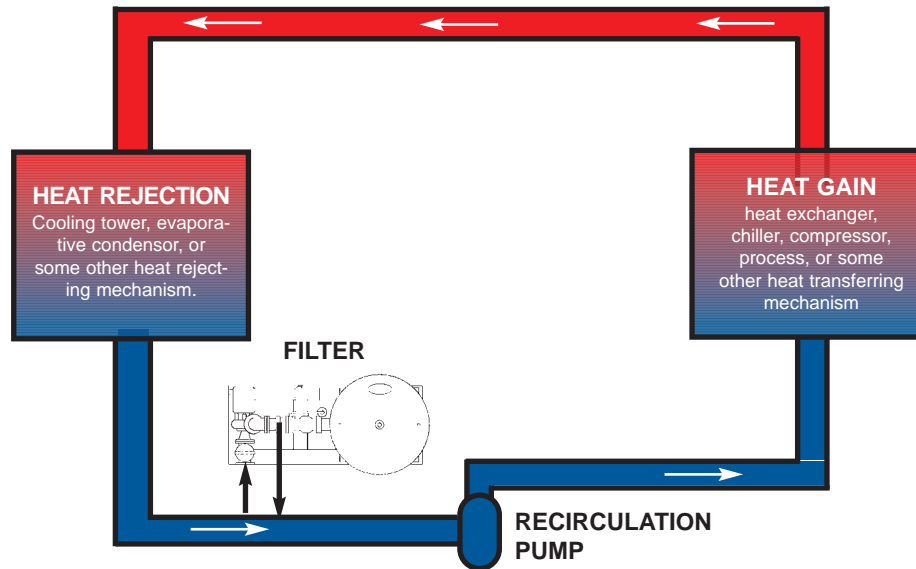




Installation Style - SLIP STREAM SUCTION SIDE



SLIP STREAM - SUCTION SIDE - Filter draws water from and returns it to the cooling water recirculation system at a point under the suction influence of the cooling water recirculation pump; either open or closed loop. Typically, slip stream from suction side installation is significantly less effective than the recommended side stream style for open loops or the loop-the-pump style for closed loops. The condenser water recirculation pump is almost always of such a larger size than the filter pump that the filter pump's suction influence can attract very little, particulate to the filter for removal. See our Technical Bulletin regarding Sidestream vs. Slipstream Installation on page 10. **Installation of a Tower-Flo® Filter on a slip stream from the suction side is NOT the best nor most beneficial application of Tower-Flo® Filters.** See our Technical Bulletin regarding Sidestream vs. Slipstream Installation on page 10.

Considerations:

1. Totally dependent on the existing cooling water re-circulation system.
2. Consider line pressure; is the filter vessel rated for the line pressure at the point of installation?
3. Slip stream installations are sometimes motivated by the desire to avoid the addition of a pump for the filter system.
 - a. In the slip stream from suction side installation style, the filter pump would be absolutely necessary to get any flow to the filter.
4. Consider backwash water source;
 - a. System water (standard);
 - b. Fresh water from municipal (city) supply; NOT recommended in slip stream - suction side installations;
 - 1) Flow control is provided by Tower-Flo®, pressure regulation and backflow prevention is by others.
 - c. Fresh water from static (another non-pressurized source of filtered water) supply.
 - 1) Accumulation tank and fill valve and control are required.
5. Consider backwash disposal (flow rate as well as environmental constraints).
 - a. Is fail safe vacuum/siphon breaker or solenoid valve necessary in backwash line to waste?
 - b. Is a throttling valve necessary in backwash line to waste?
6. Consider additional plumbing requirements, i.e., isolation valves in suction and return piping, flow meter(s).



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Form INST-SLIP-S:5/08

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