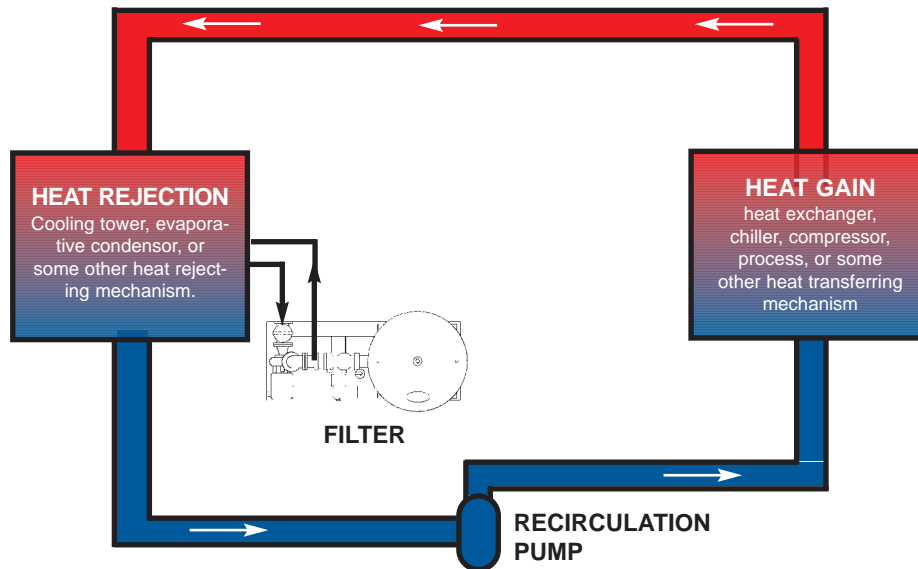




## Installation Style - SIDE STREAM



**SIDE STREAM** - Filter draws water from and returns it to a static body of water, usually either the cooling tower basin or a chilled water reservoir. The filter's circulation stream is completely separate and independent from the cooling water recirculation loop. **Side stream is the recommended installation style for Tower-Flo® Filters on open loop cooling systems. It is, by far, the best, most beneficial, and usually most economical application of Tower-Flo® Filters!**

### Considerations:

1. Completely independent of cooling water re-circulation system.
2. Consider differences in elevation between filter and source water;
  - a. Filter above source water;
    1. Is self-priming pump required? (standard on TFX, TFH-18, -24, & -30 but not on TFH-36 or TFB);
    2. Are horizontal and vertical pipe runs within the limits of the self-priming pump?
  - b. Filter below source water;
    1. Is the difference in elevation enough to cause pressure problems?;
    2. Does the suction pipe run to the filter remain below static water level in the tower basin?
3. Consider backwash water source;
  - a. System water (standard);
  - b. Fresh water from municipal (city) supply;
    - 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.
4. 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?
5. Consider additional plumbing requirements, i.e., isolation valves in suction and return piping, drain valves at low point(s) in sidestream connecting piping.
6. Consider use of basin sweeper piping systems.