Cooling Tower Mass Balance

While open-recirculating cooling towers save water compared to once-through cooling applications, they still consume a lot of water. Knowing not only how much water comes into the system but also where it is used and leaves the system is important to keeping the total costs of operation at a minimum.

The white box in the mass-balance diagram on the right illustrates the boundary where water both enters and leaves the overall cooling tower system. Understanding this mass balance can help identify where water savings opportunities may exist.

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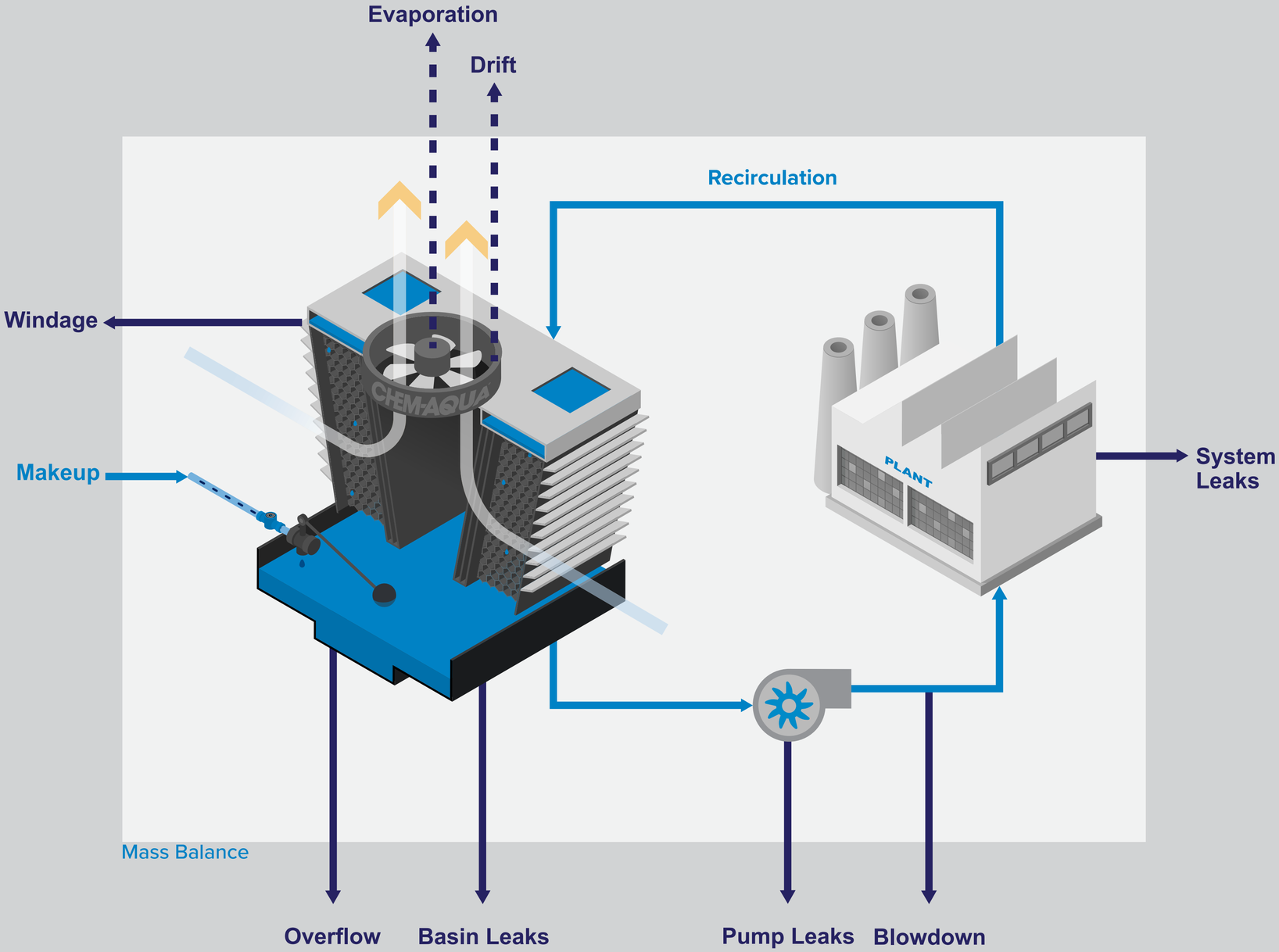
- Evaporation
- Blowdown
- Overflow
- System Leaks
- Pump Leaks
- Drift & Windage