Tips for HW23

1. Looking up material properties of R-134a. EES will be your friend, but also easy to do on paper using supplement. Once you have quality and temperature, you are ready to find enthalpies and entropies.
2. Boiler duty (Q\_dot) is in units of [kJ/min]. You can find the steam properties at given pressure and quality, and you just need to find enthalpy and entropy. Use first law to get boiler duty, then apply second law to find entropy production rate. Remember that a boiler is an open system.

The reading questions going along with this assignment are pretty significant. Plan to take a little time with them so that you’ve got a good idea of what you do and don’t know for class next week.