

## Making a Ts diagram of a rankine or refrigeration cycle

Cooling cycles and heat pumps operate on a cycle similar to the rankine/carnot cycle. What is the most important difference when making a Ts-diagram of a cooling cycle instead of a Rankine cycle?

The most important difference is the different flow direction of the cycle. Having a compressor instead of a turbine and an expansion valve instead of a pump facilitate this reverse direction. The working fluid has no effect on what the Ts-diagram looks like.