System Configuration

Figure 5a. Schematics of the system
The feed is heated by the steam in the thin film evaporator. The more volatile component evaporates, leaves the TFE as the top product, and is condensed in the condenser. The heavier component is cooled down in the product heat exchanger. Upper and lower bearing fluids provide lubrication for the rotating wiper inside the TFE. The steam injector reduces the pressure in the TFE tank. There are two tanks for both the bottom product (product tanks) and top product (vapor tanks).