

Sulphuric Acid Plant: Emissions and Control

- $S + \frac{1}{2} O_2 \longrightarrow SO_2 + \text{Heat} (-127,700 \text{btu/lb mole})$
- $SO_2 + \frac{1}{2} O_2 \longleftrightarrow SO_3 + \text{Heat} (-41,400 \text{btu/lb mole})$

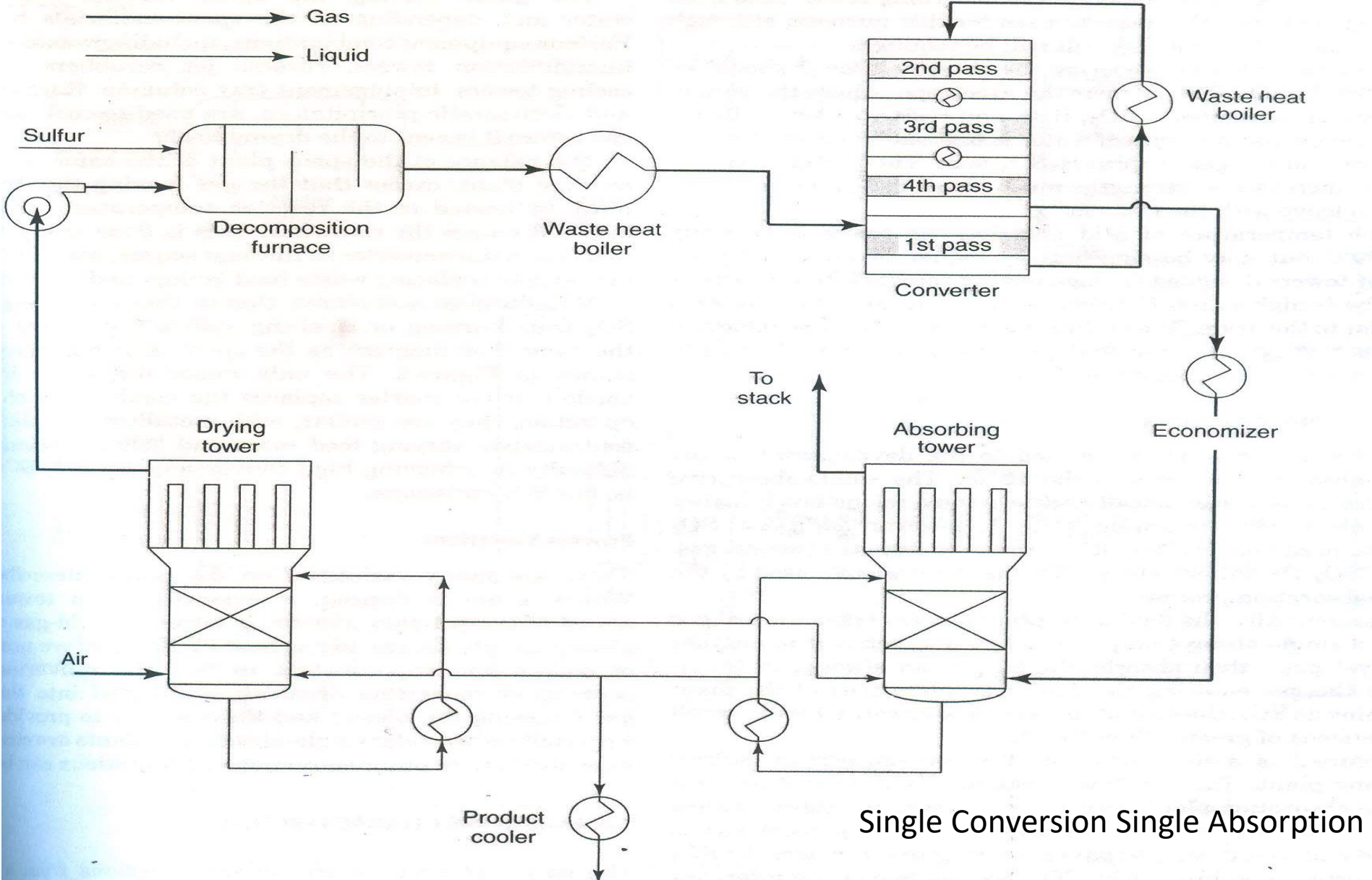
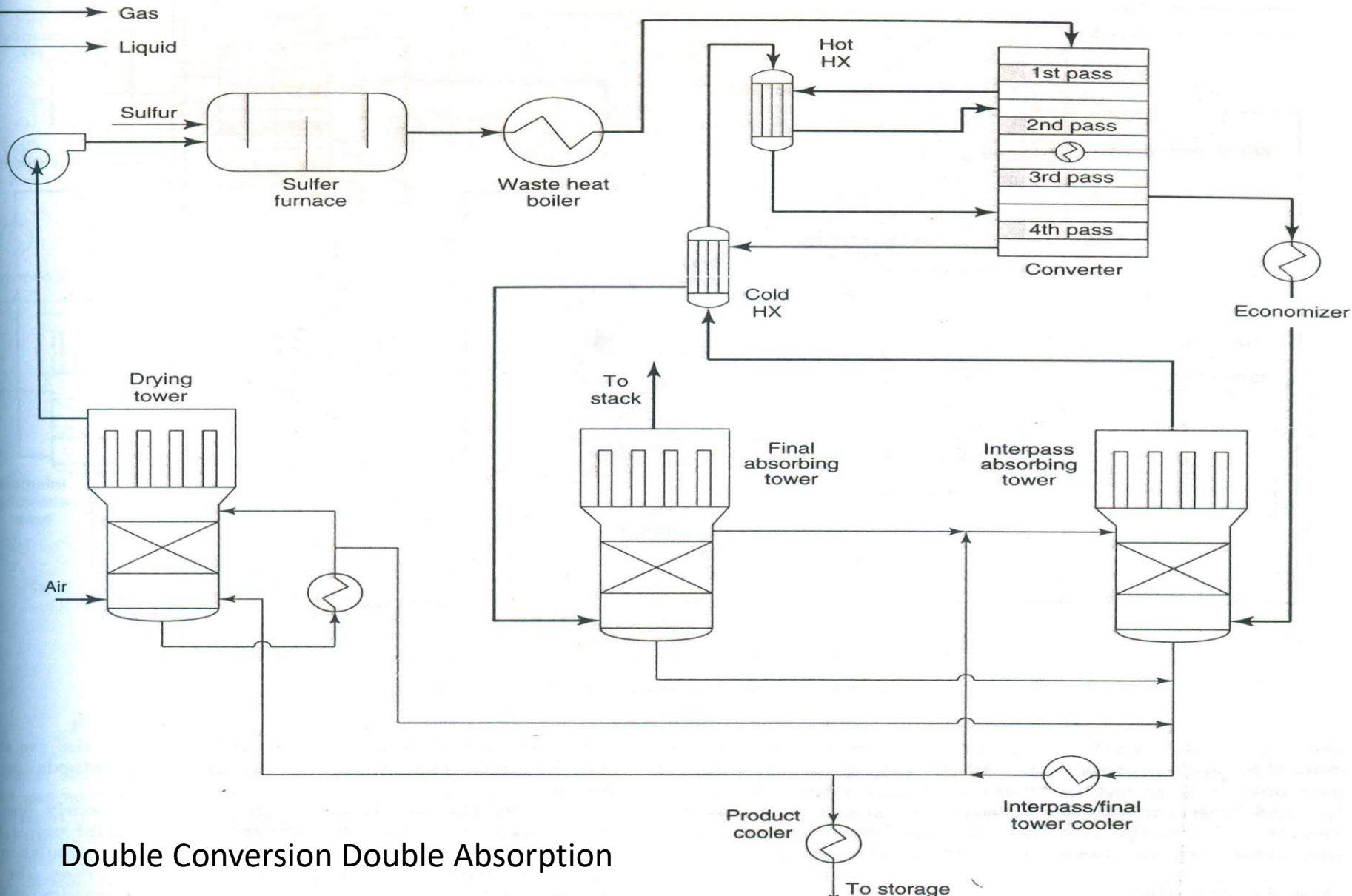
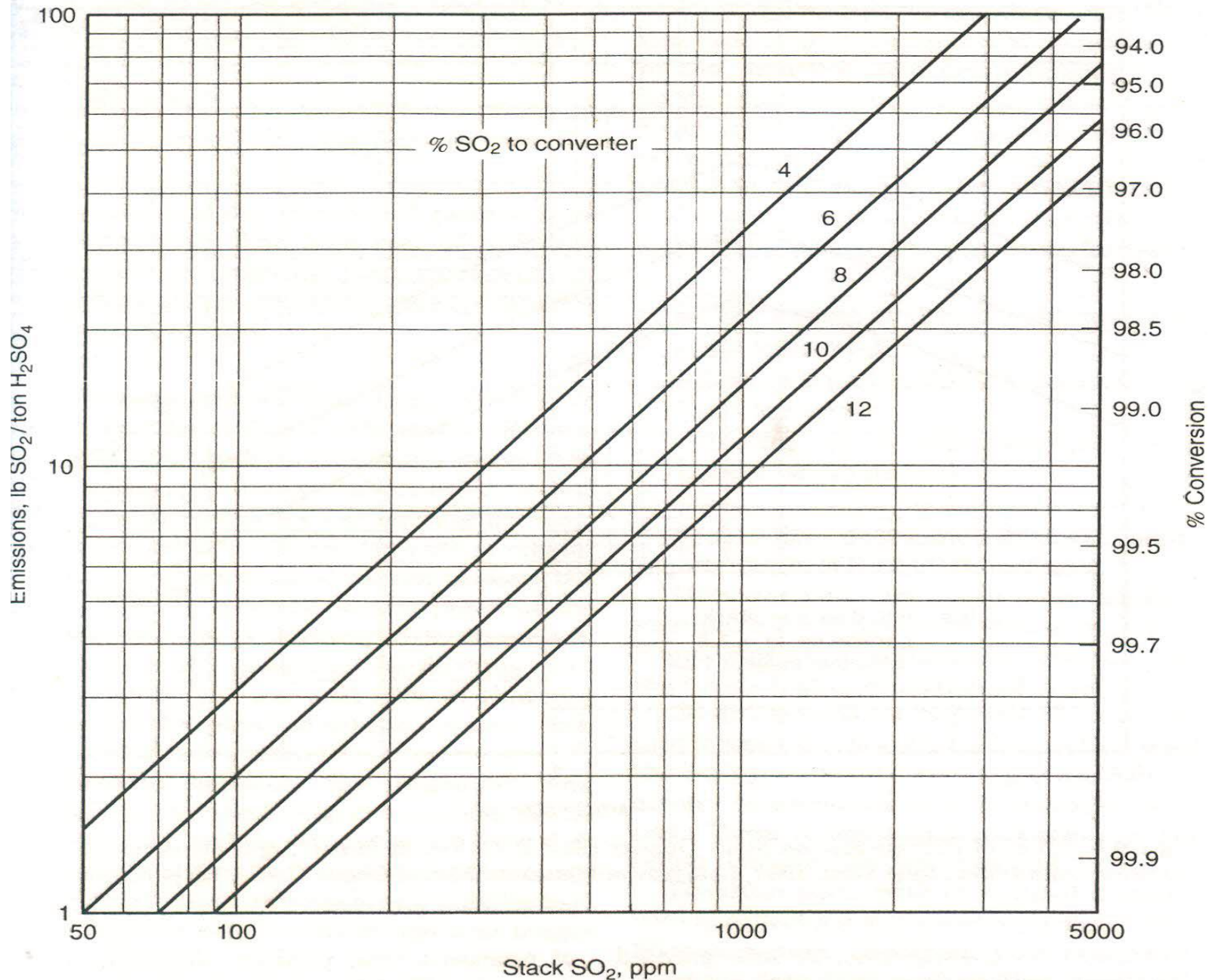


Figure 1. Typical Single-Absorption Sulfur Burning Acid Plant.



Double Conversion Double Absorption



4-316 Diacid Conversion and Mass Emissions versus Inlet and Exit Sulfur Dioxide Concentration