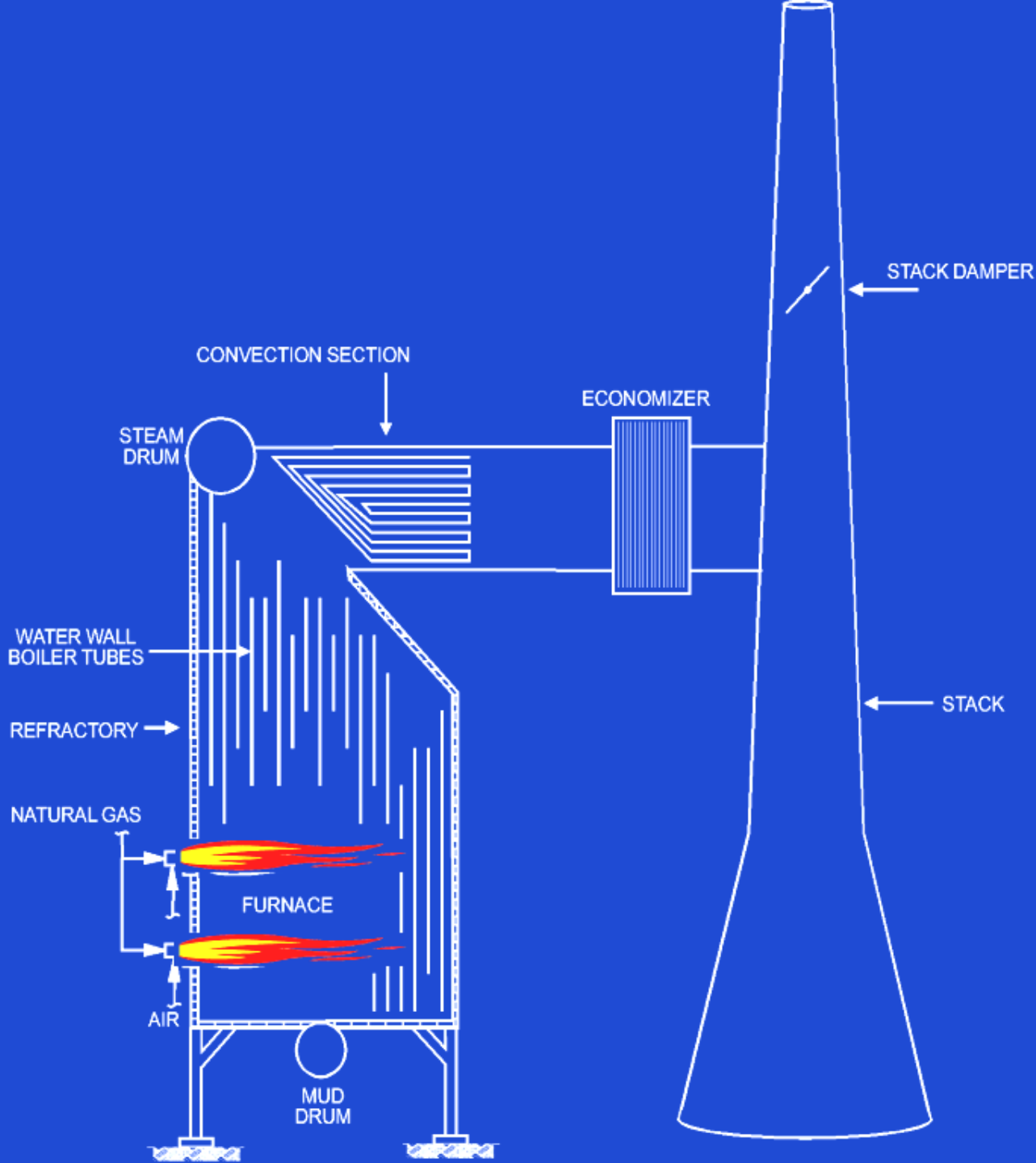
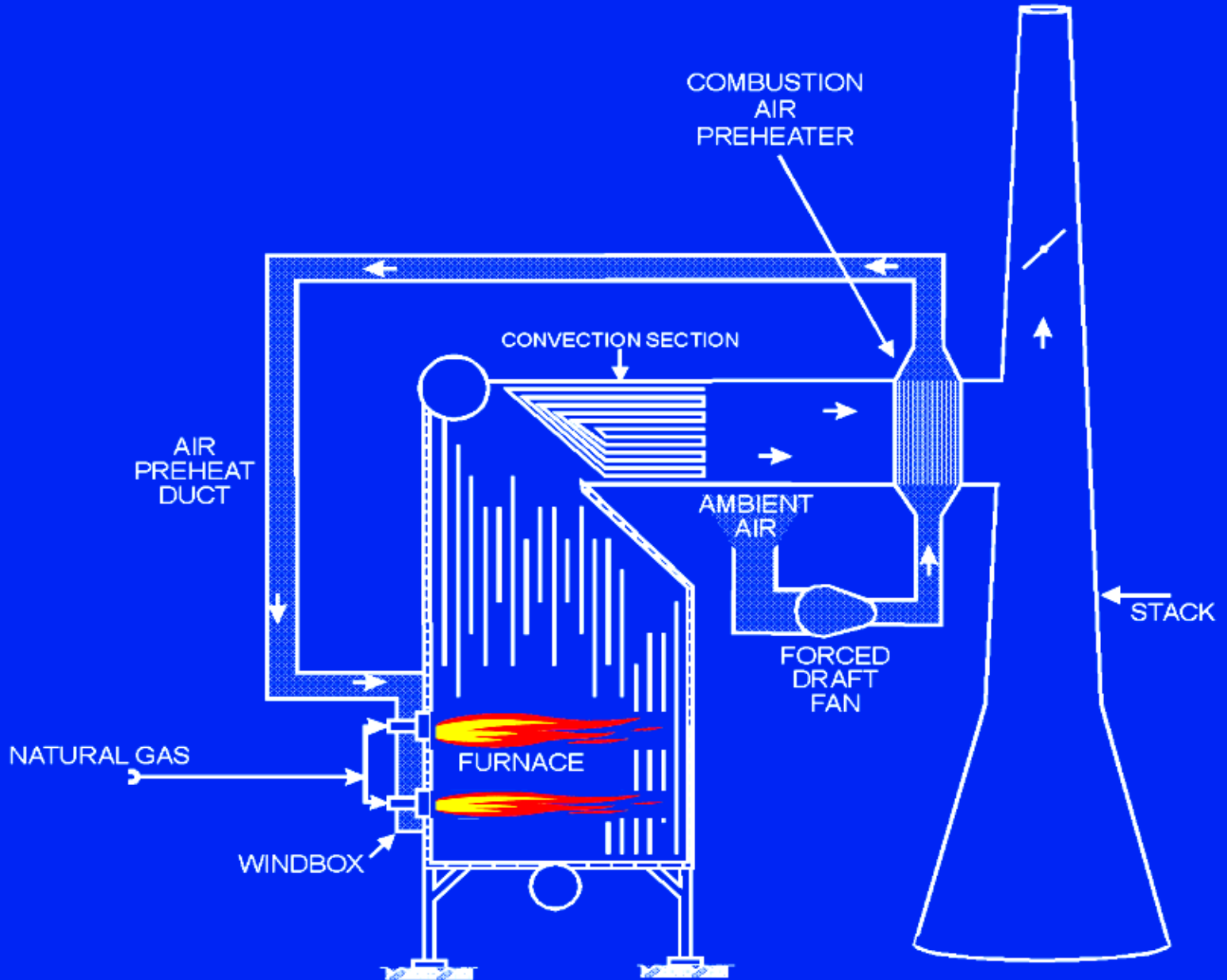


Figure 201.1
Conventional Gas-Fired Heater



Gas Fired Water Tube Boiler

Combustion Air Preheat



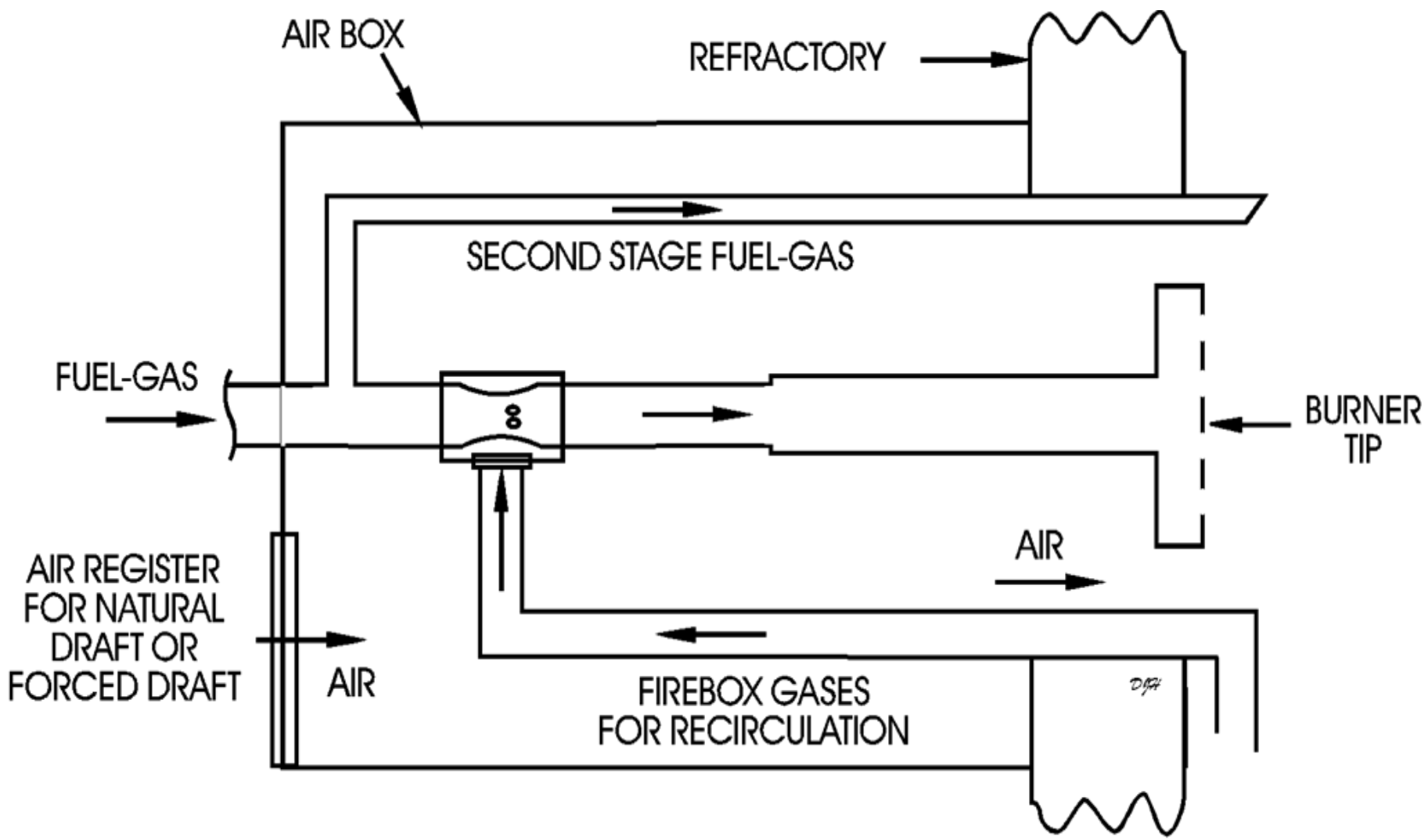


Figure 201.5
Low-NO_x Burner with Staged Fuel
and Internal Flue-Gas Recirculation

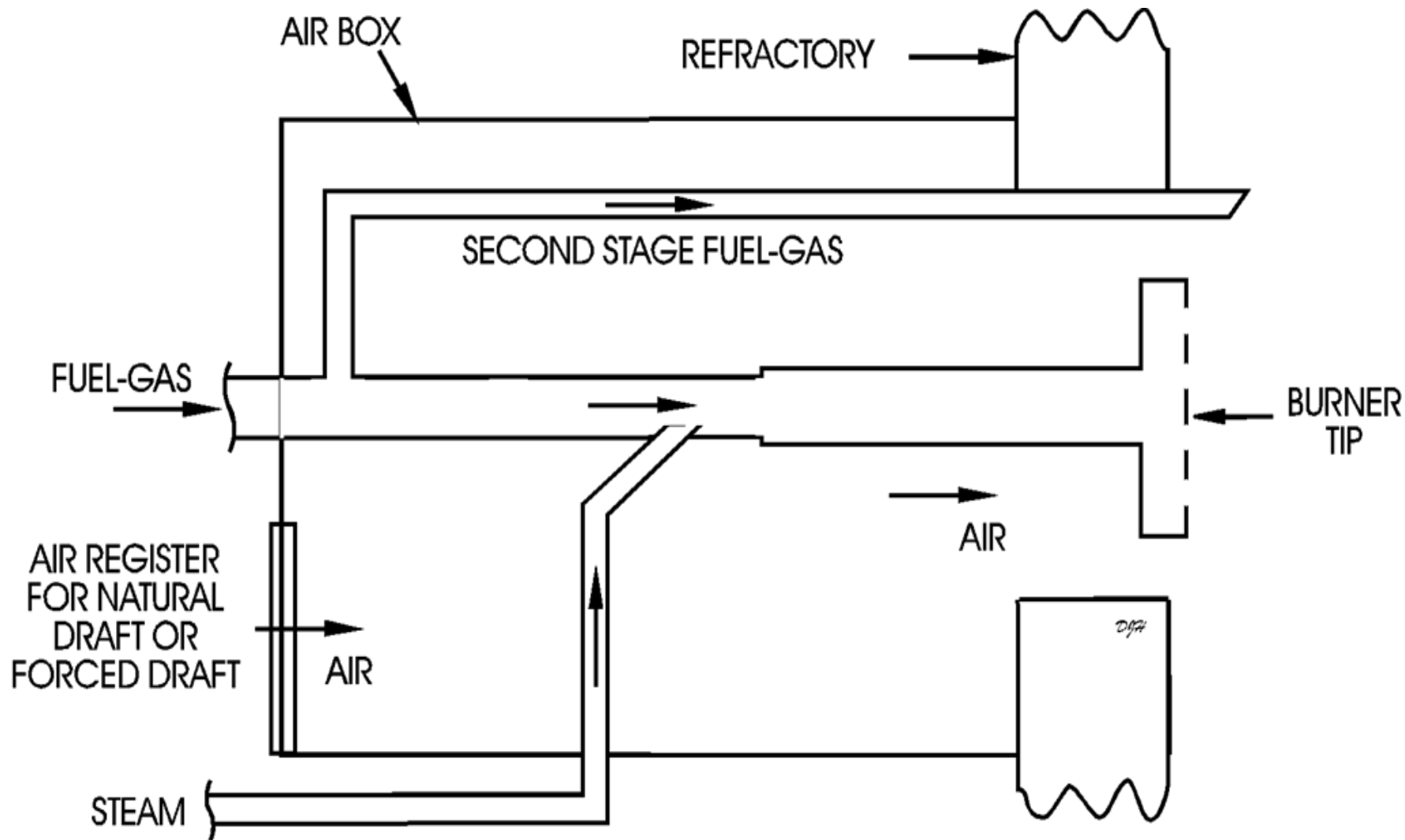


Figure 201.6
 Low-NO_x Burner with Staged Fuel
 and Steam Injection

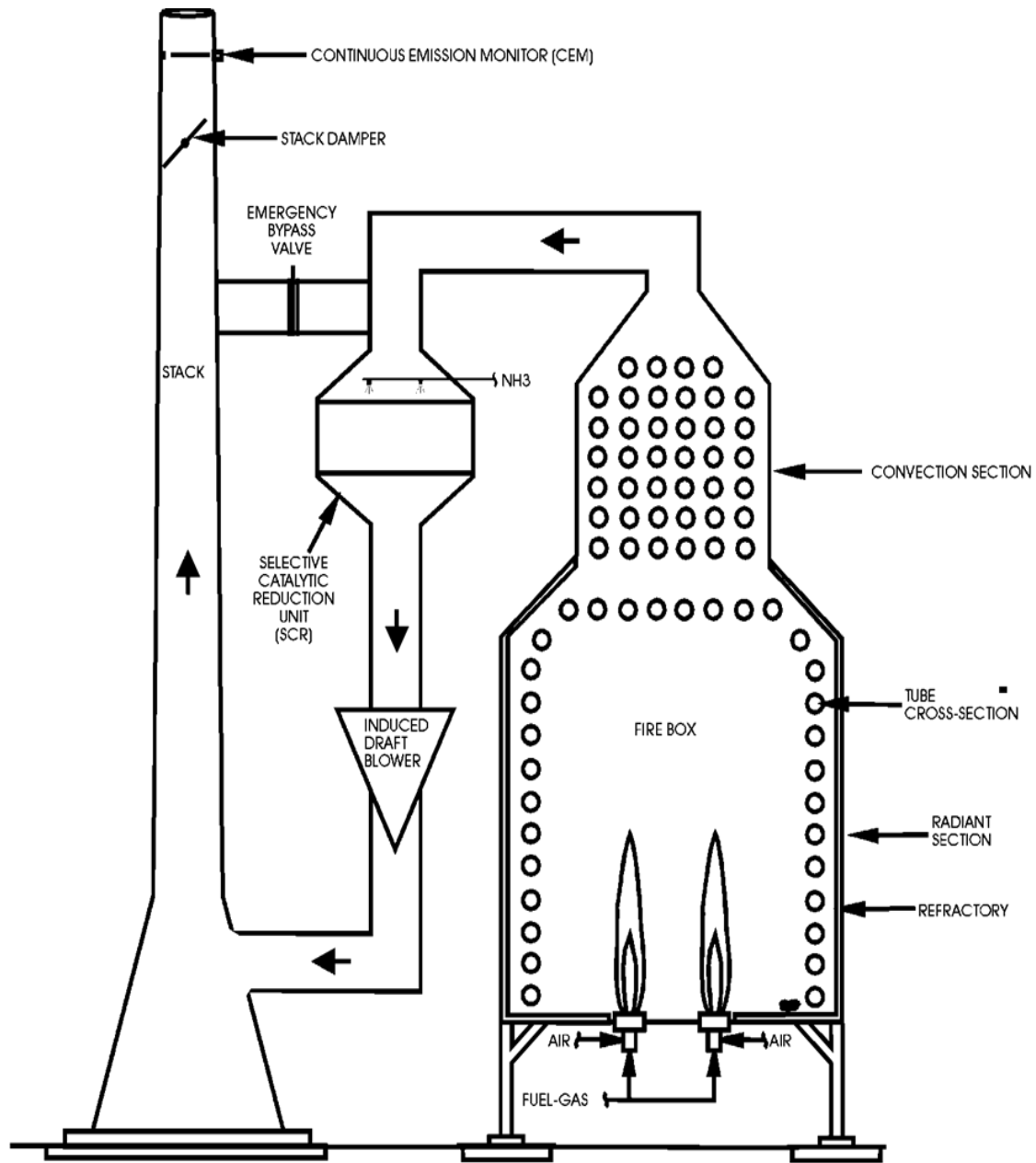
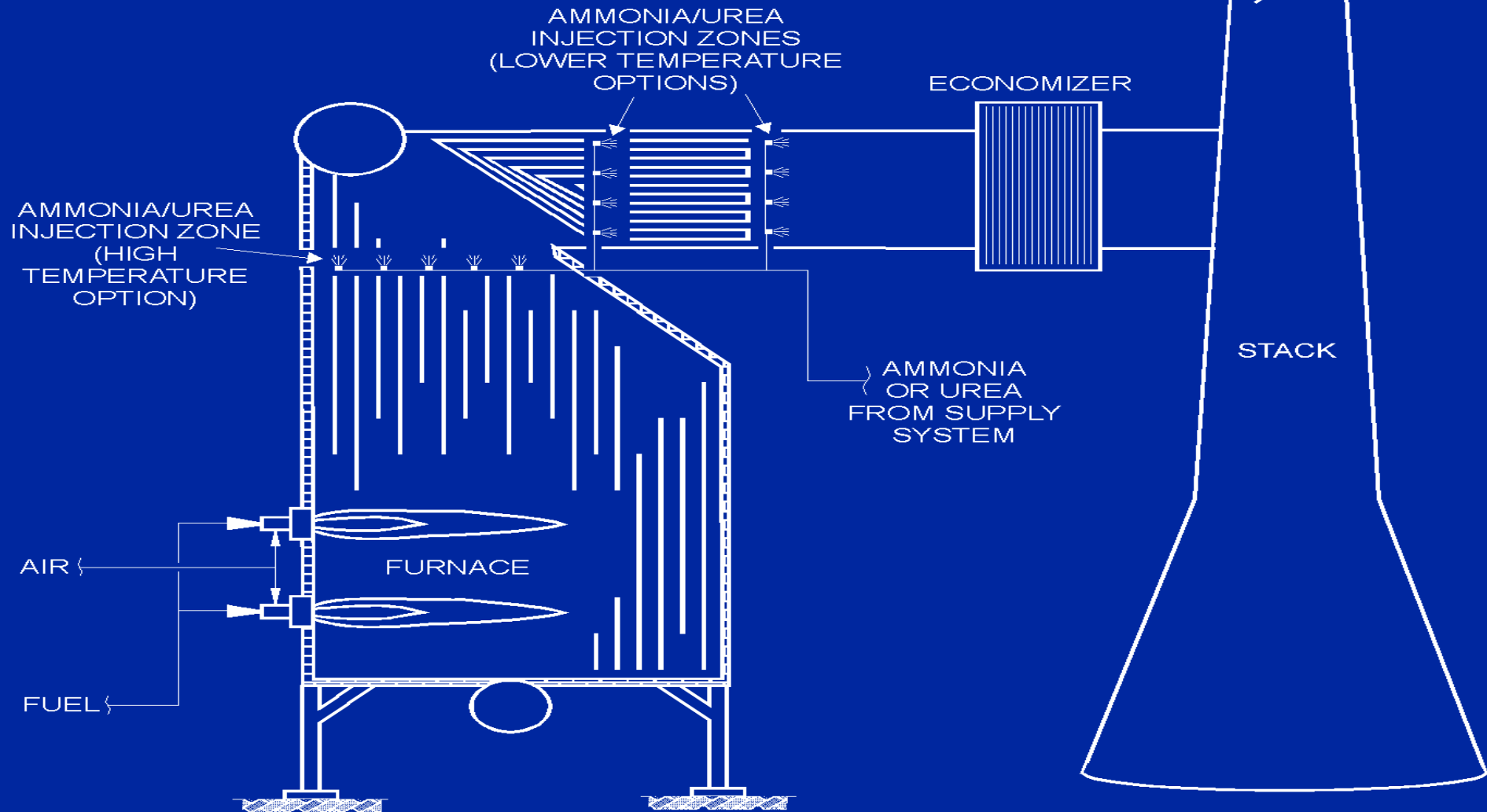


Figure 201.2
Gas-Fired Heater With Retrofit SCR System

Boiler With SNCR



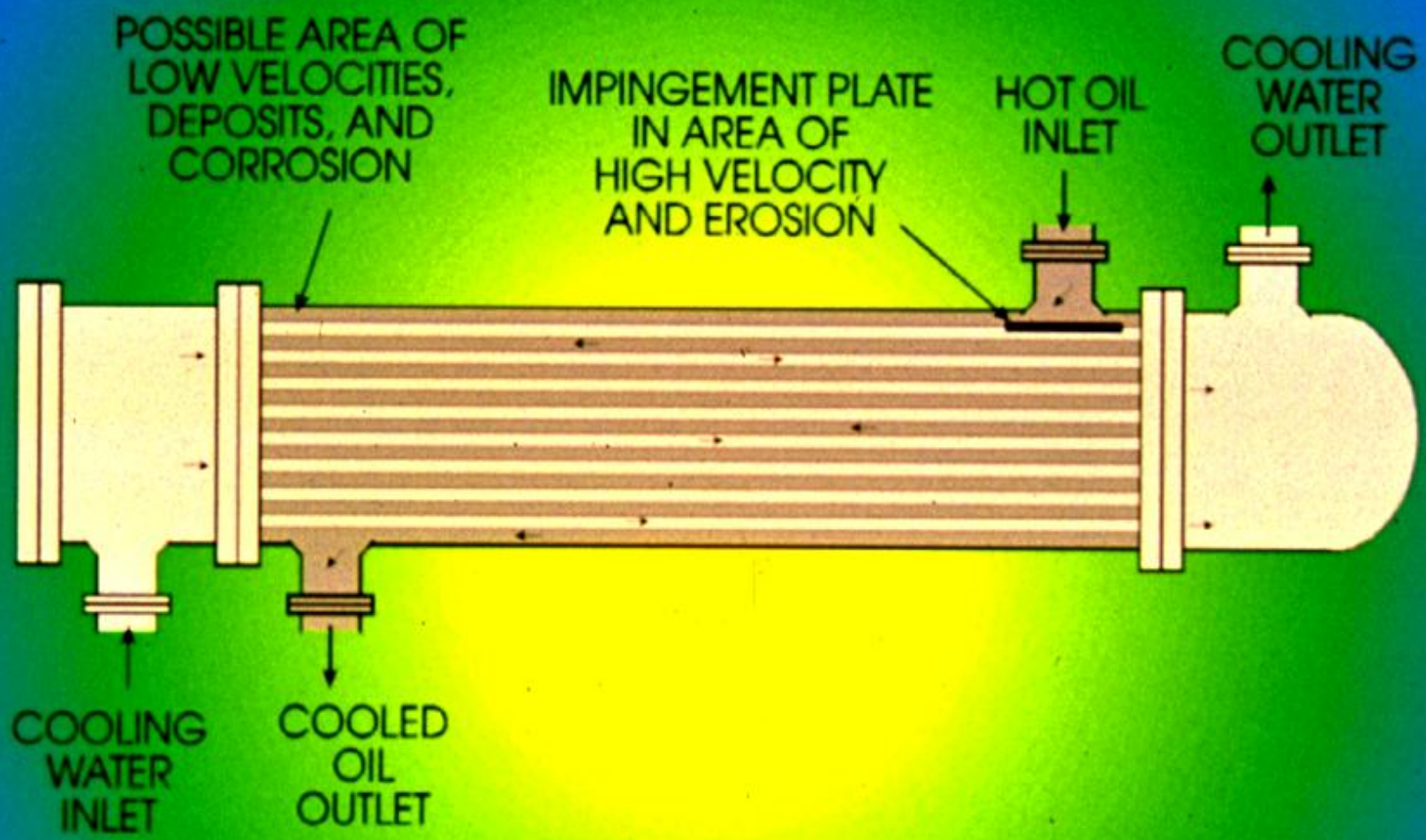


Figure 304.2
Heat Exchanger (Simplified)

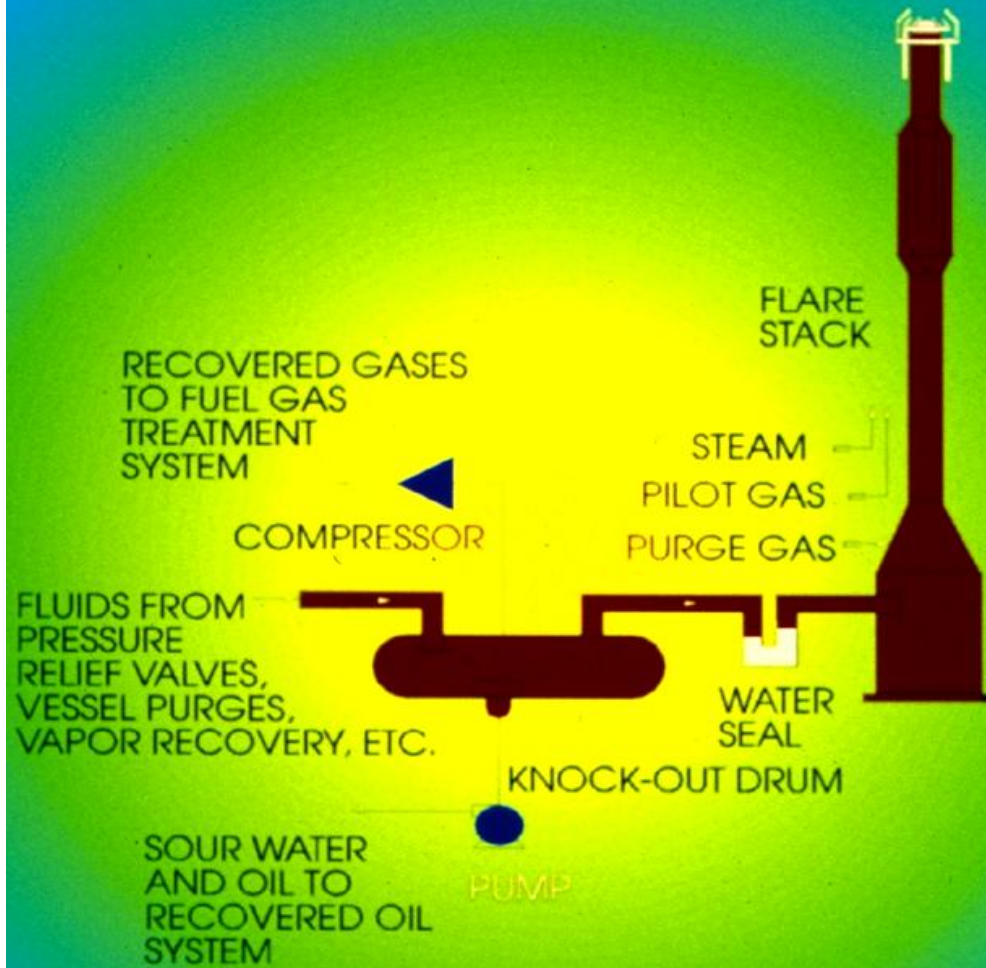


Figure 202.1
Blowdown System with Gas Recovery

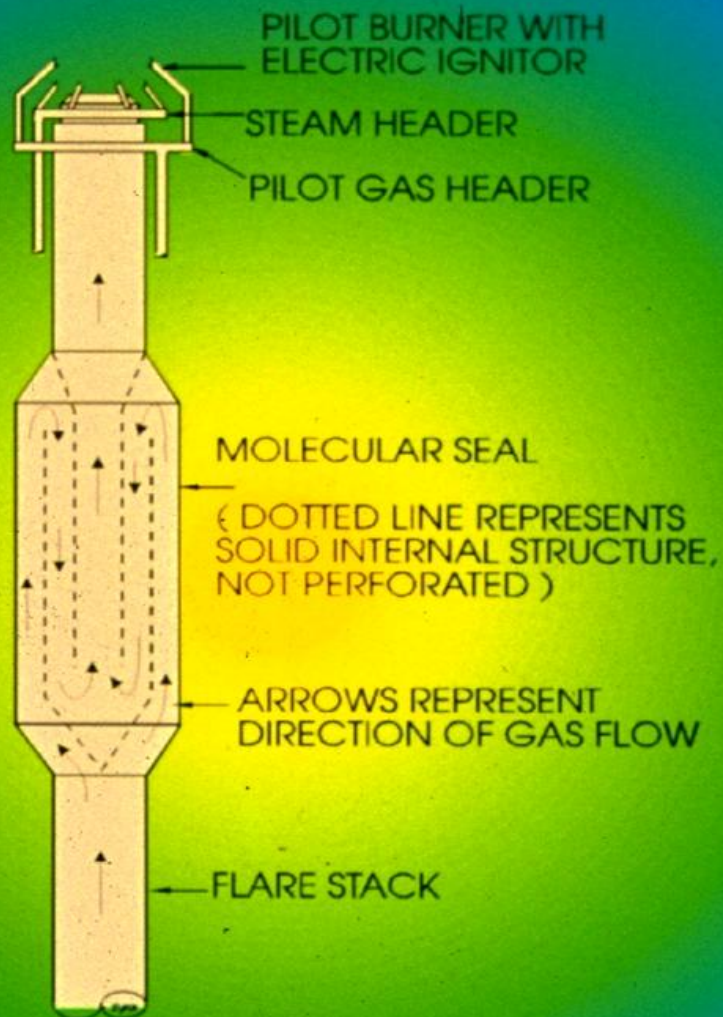


Figure 202.2
Flare Tip and Molecular Seal

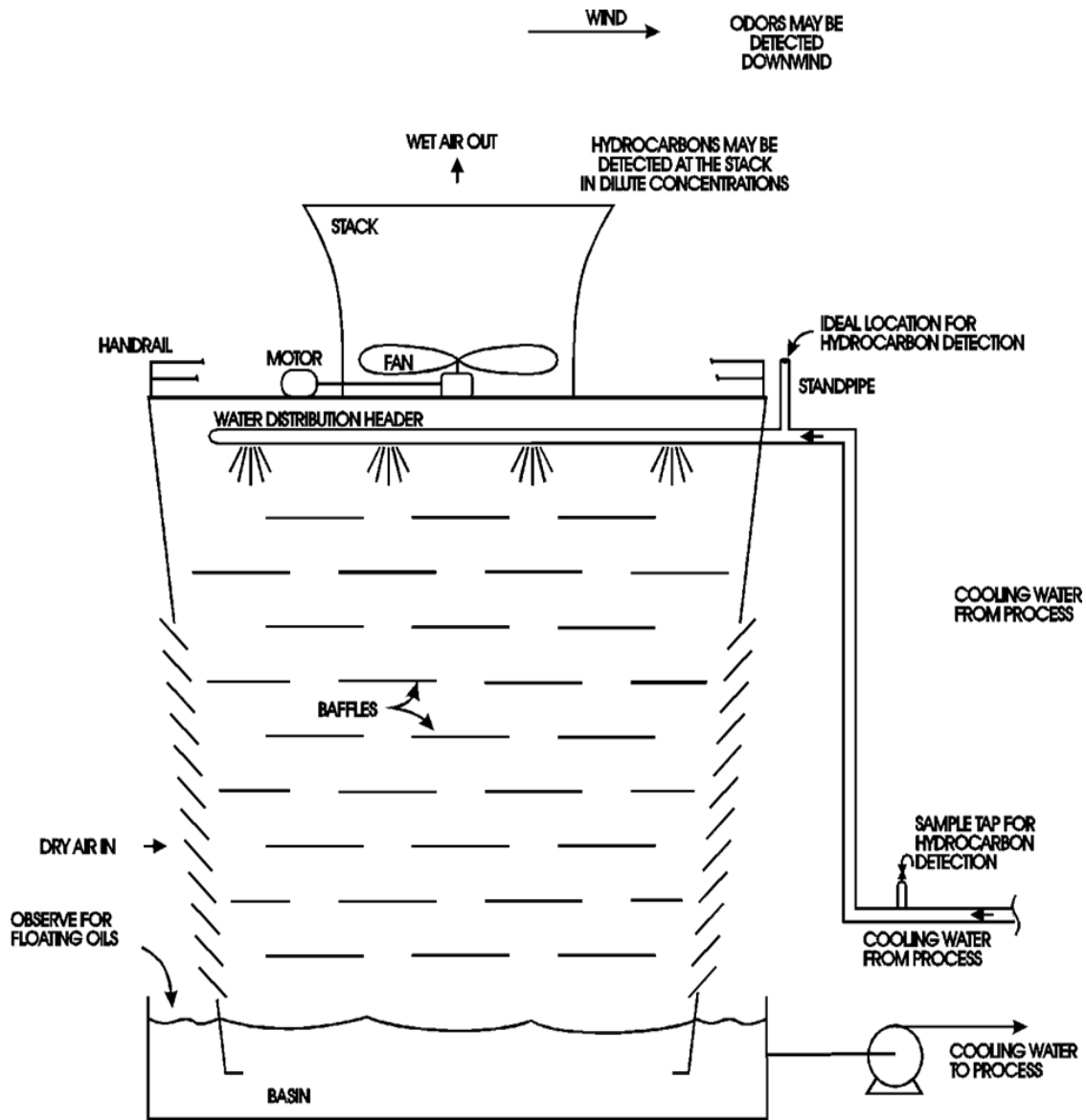
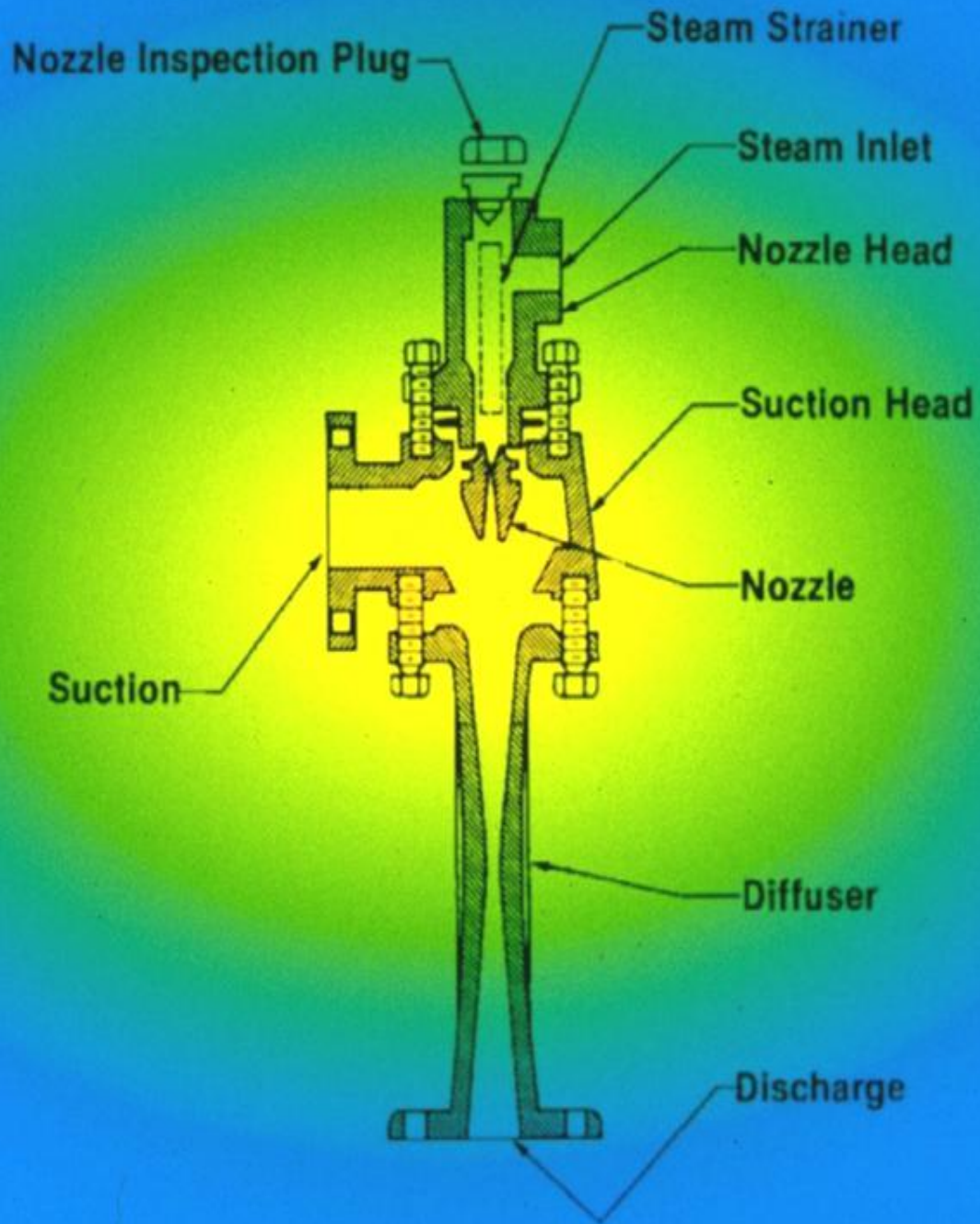


Figure 304.1
Simplified Cooling Tower



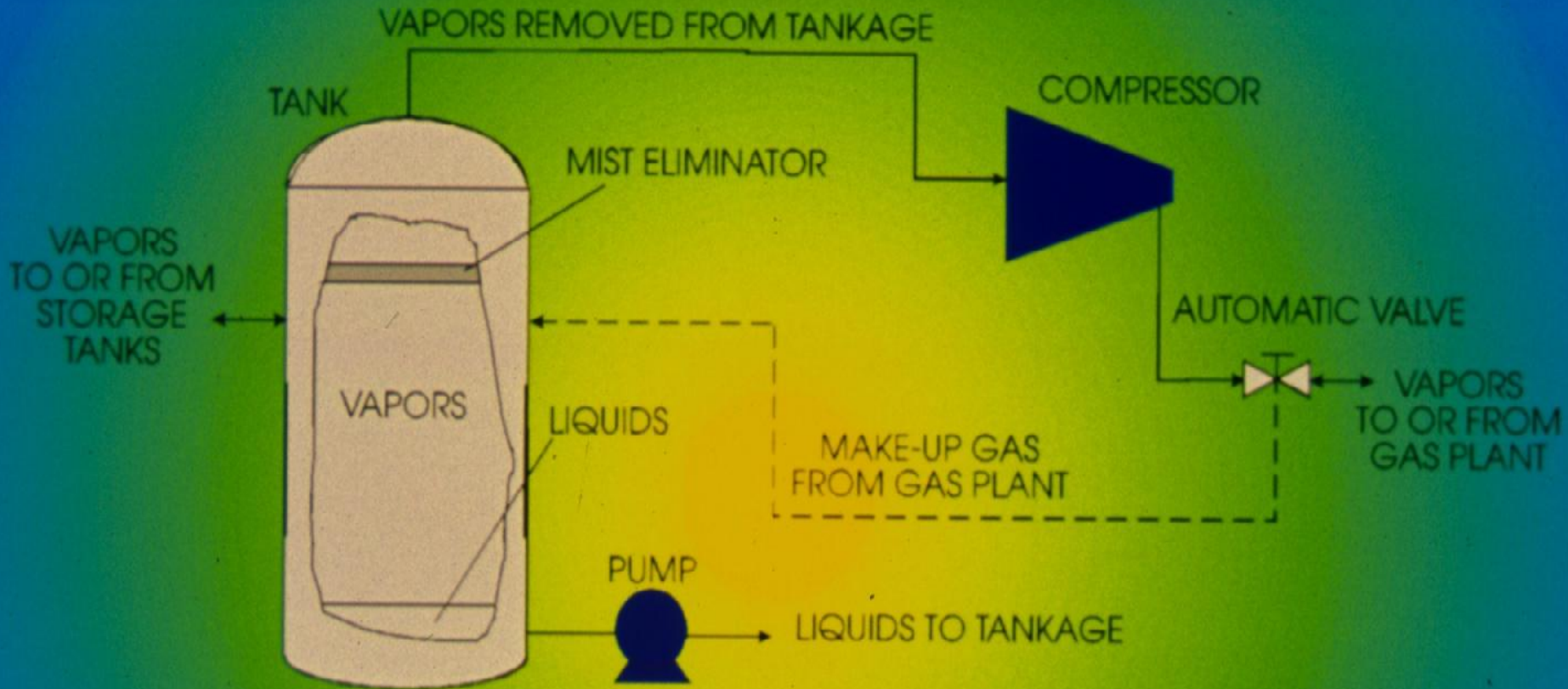


Figure 302.2
Vapor Recovery Unit

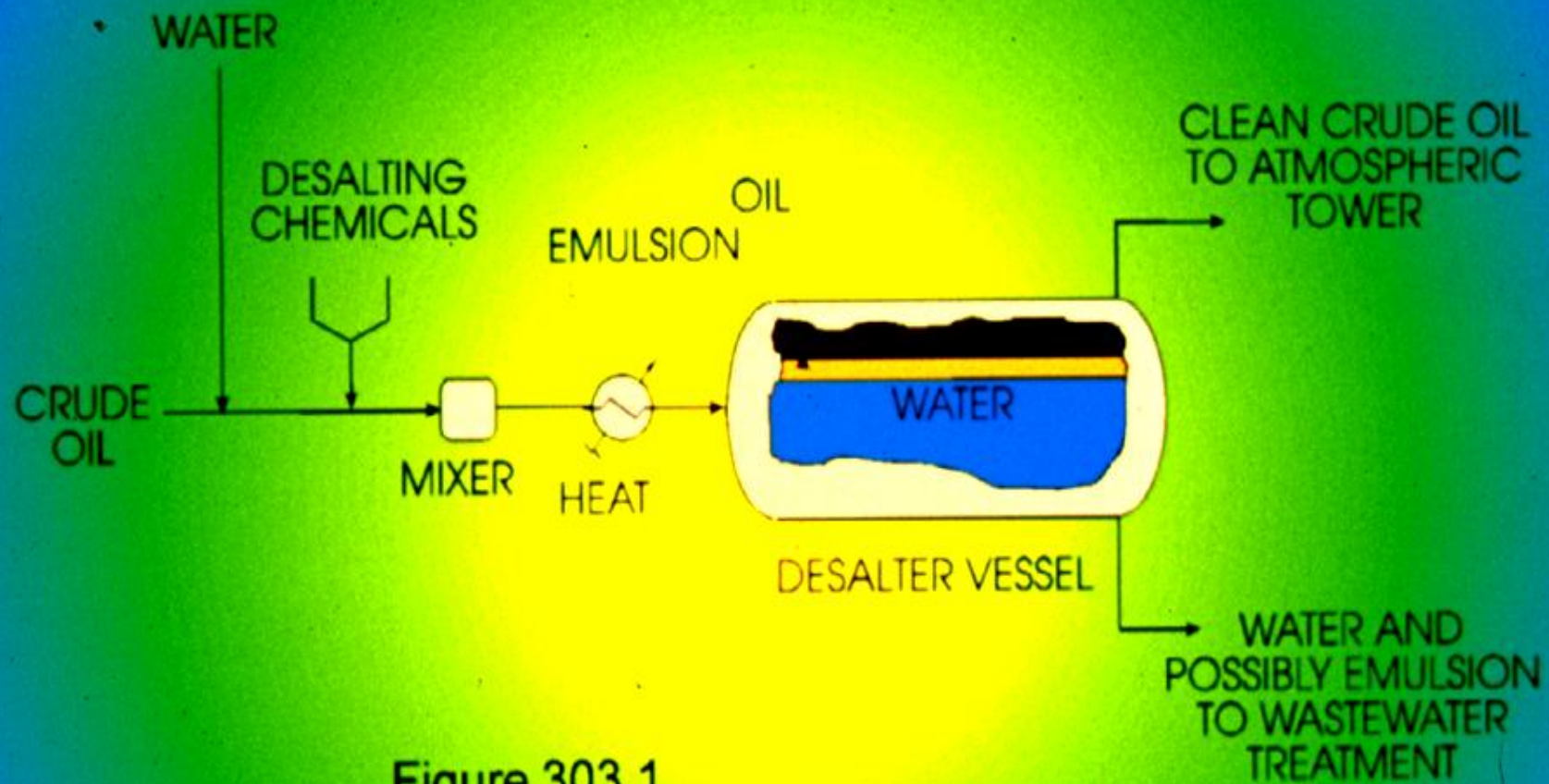
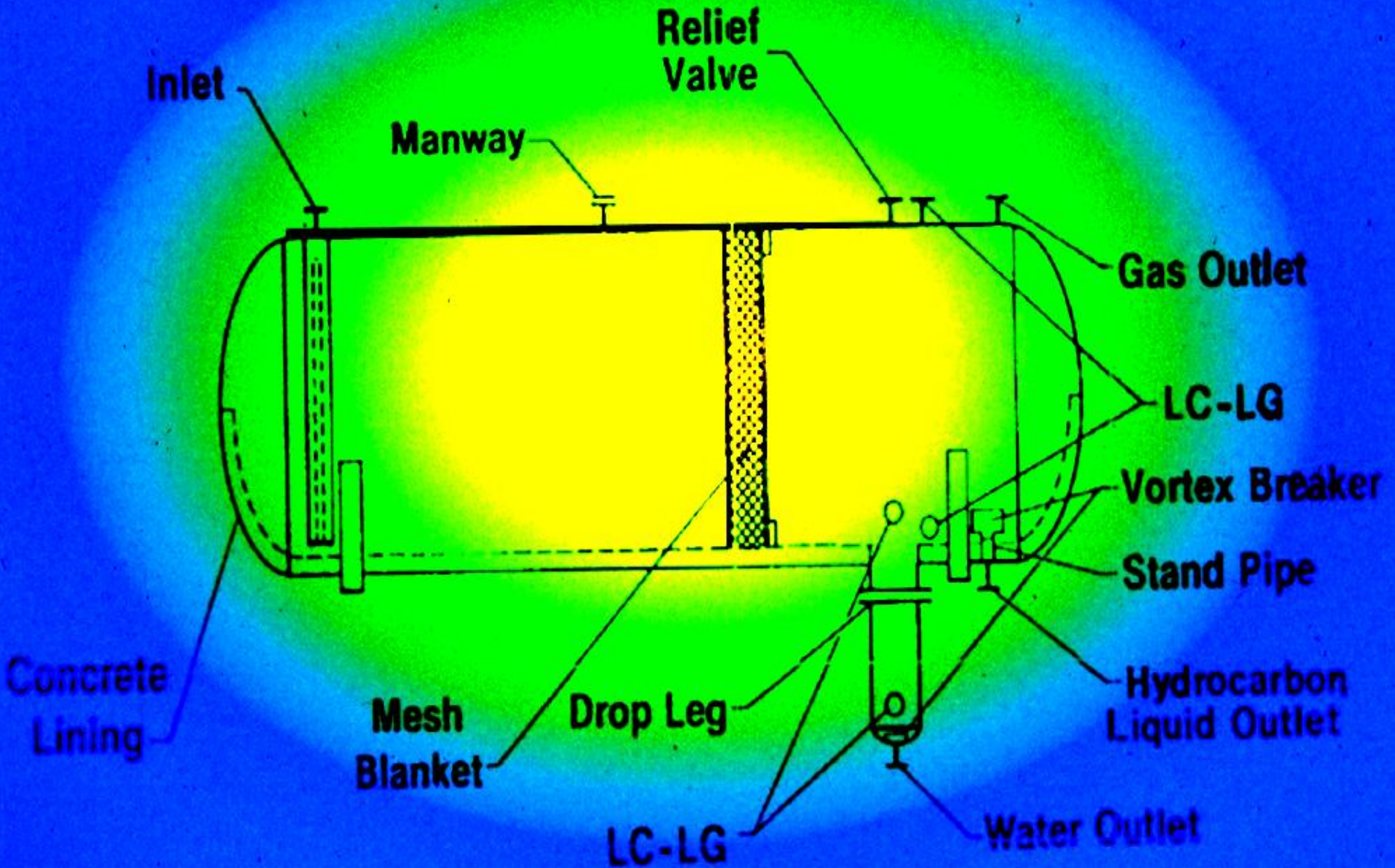


Figure 303.1
Crude Desalter

Low Pressure Flash Drum



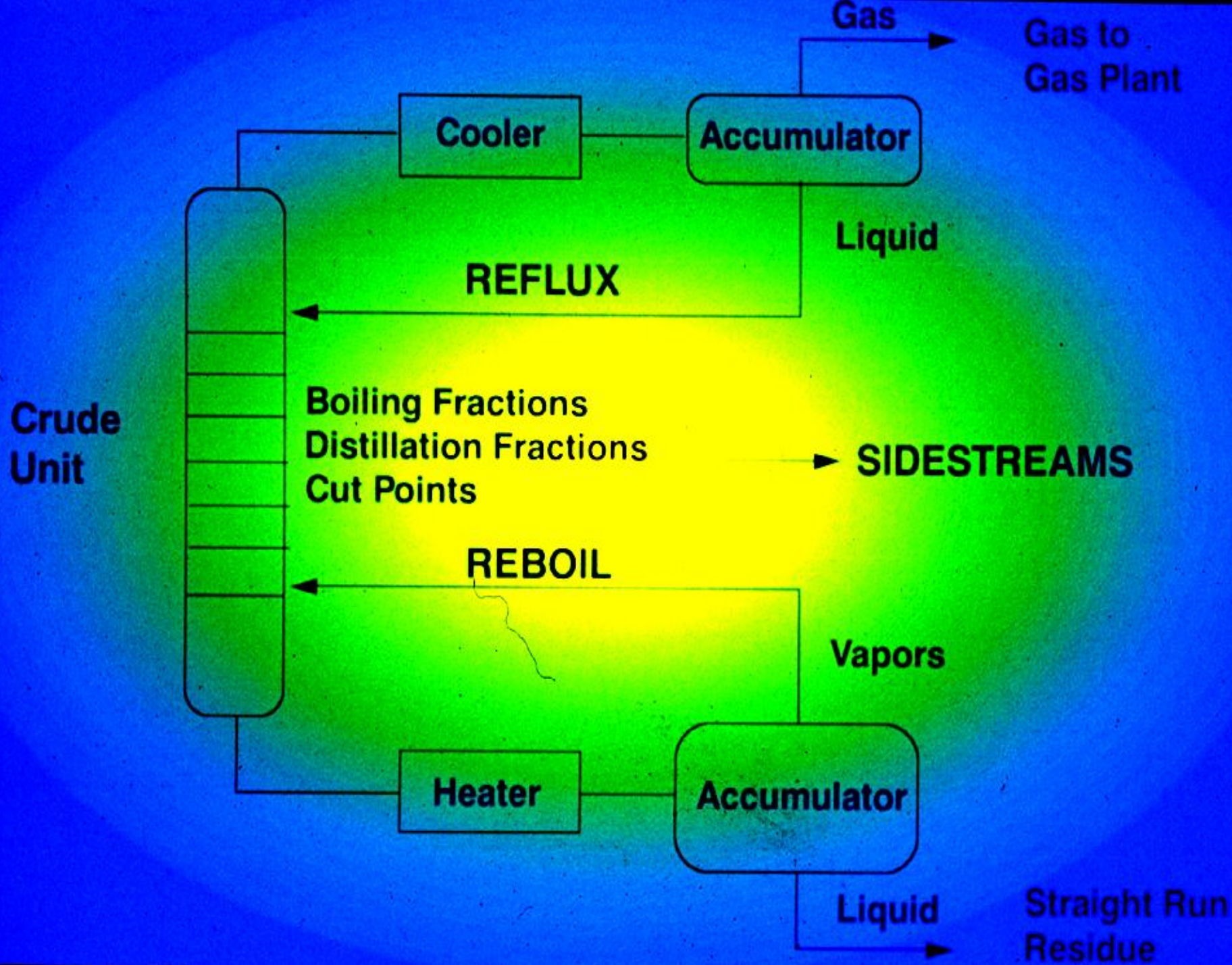
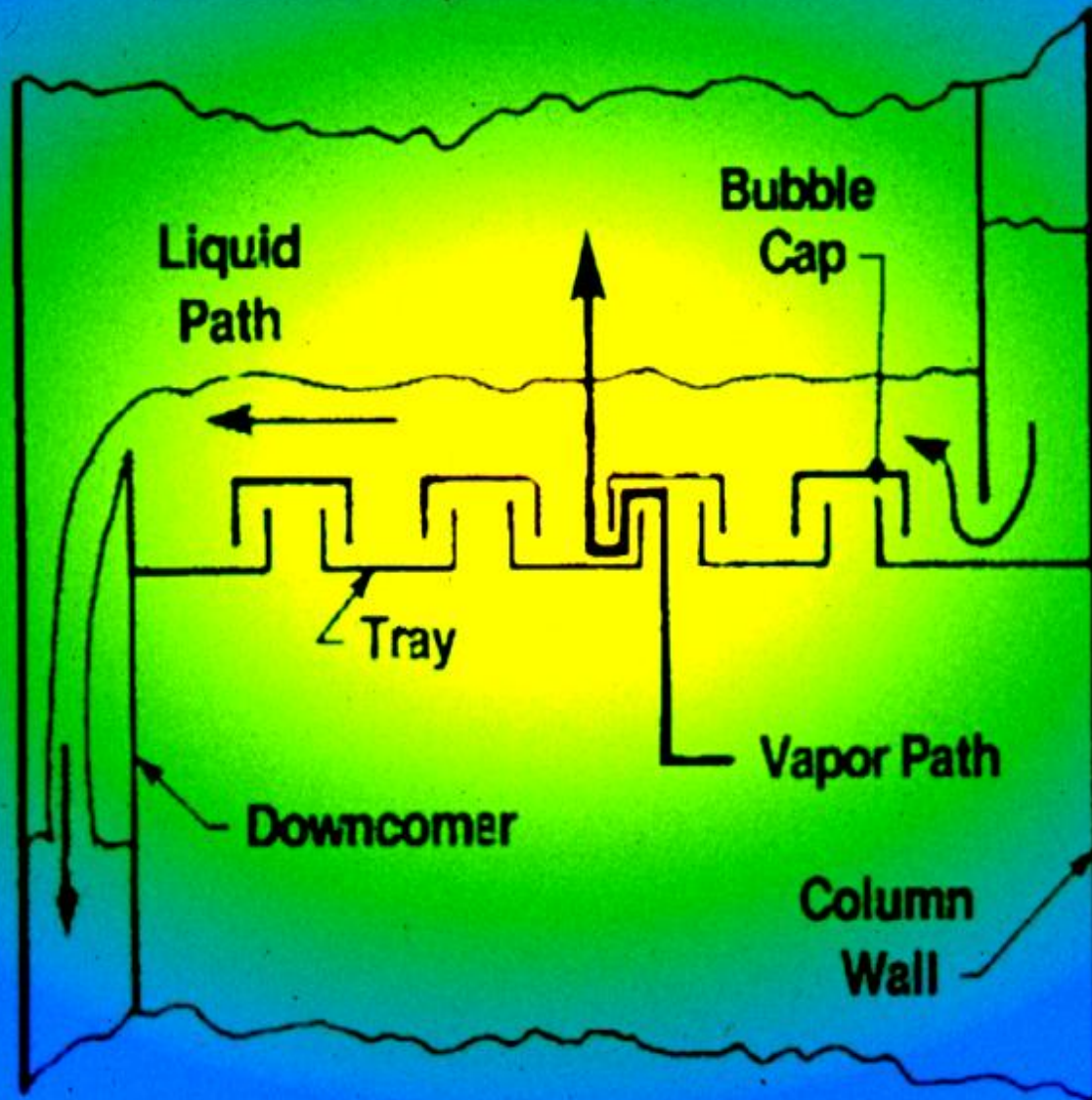
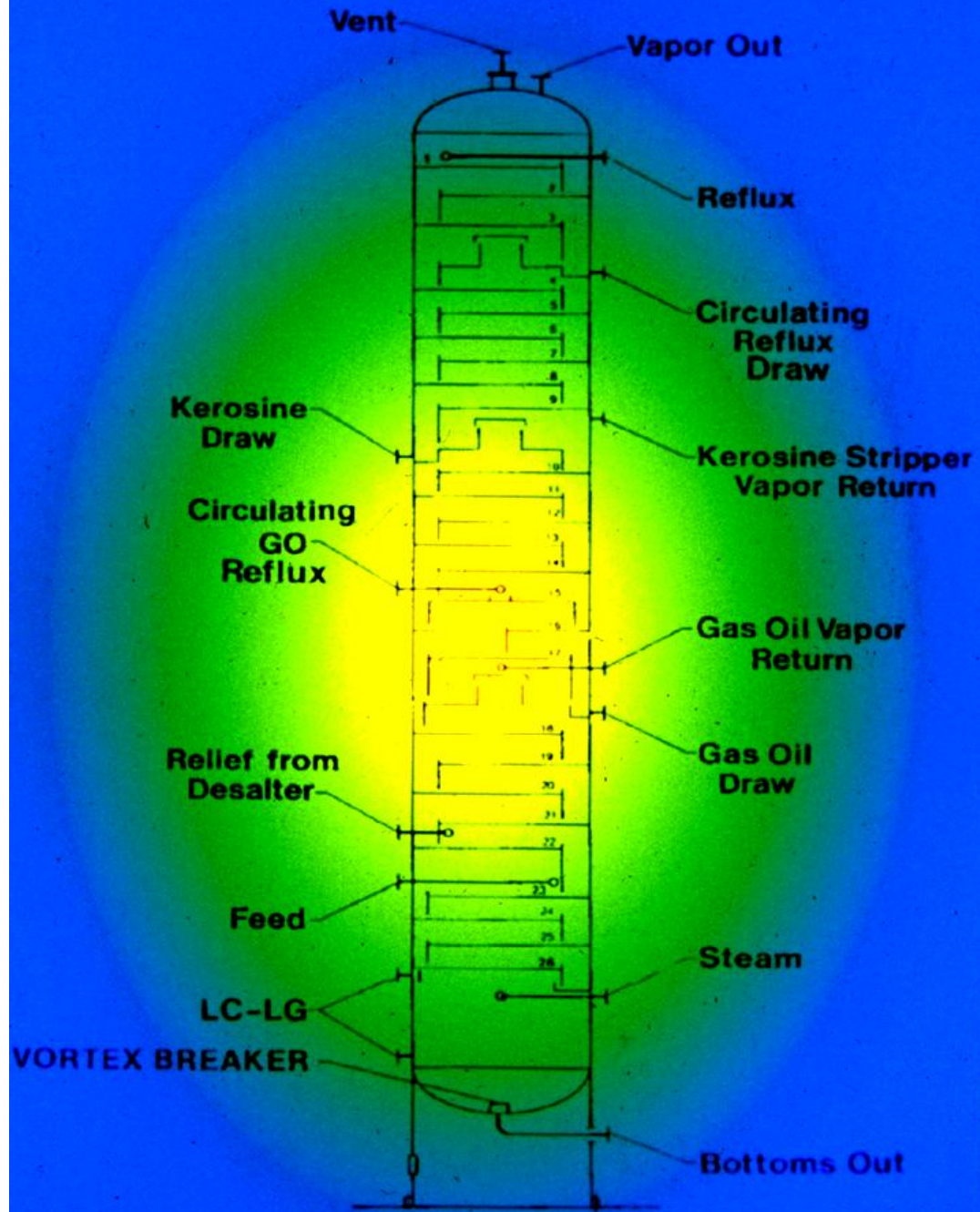
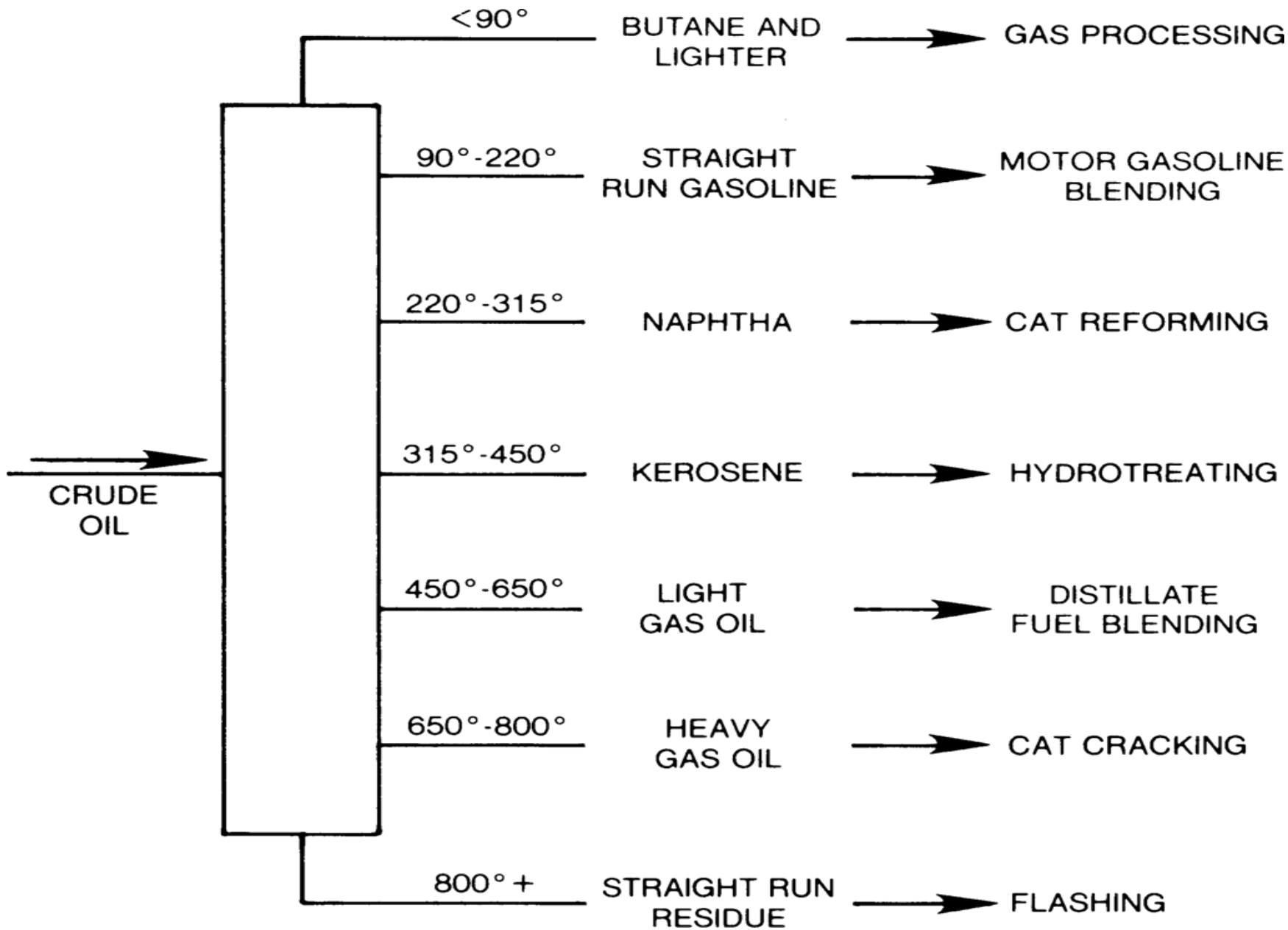


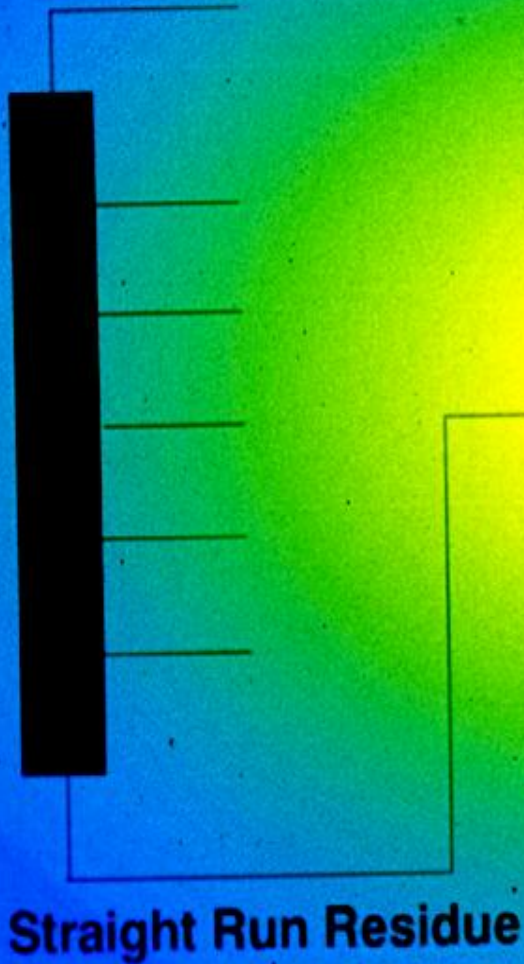
Diagram of a Typical Tray



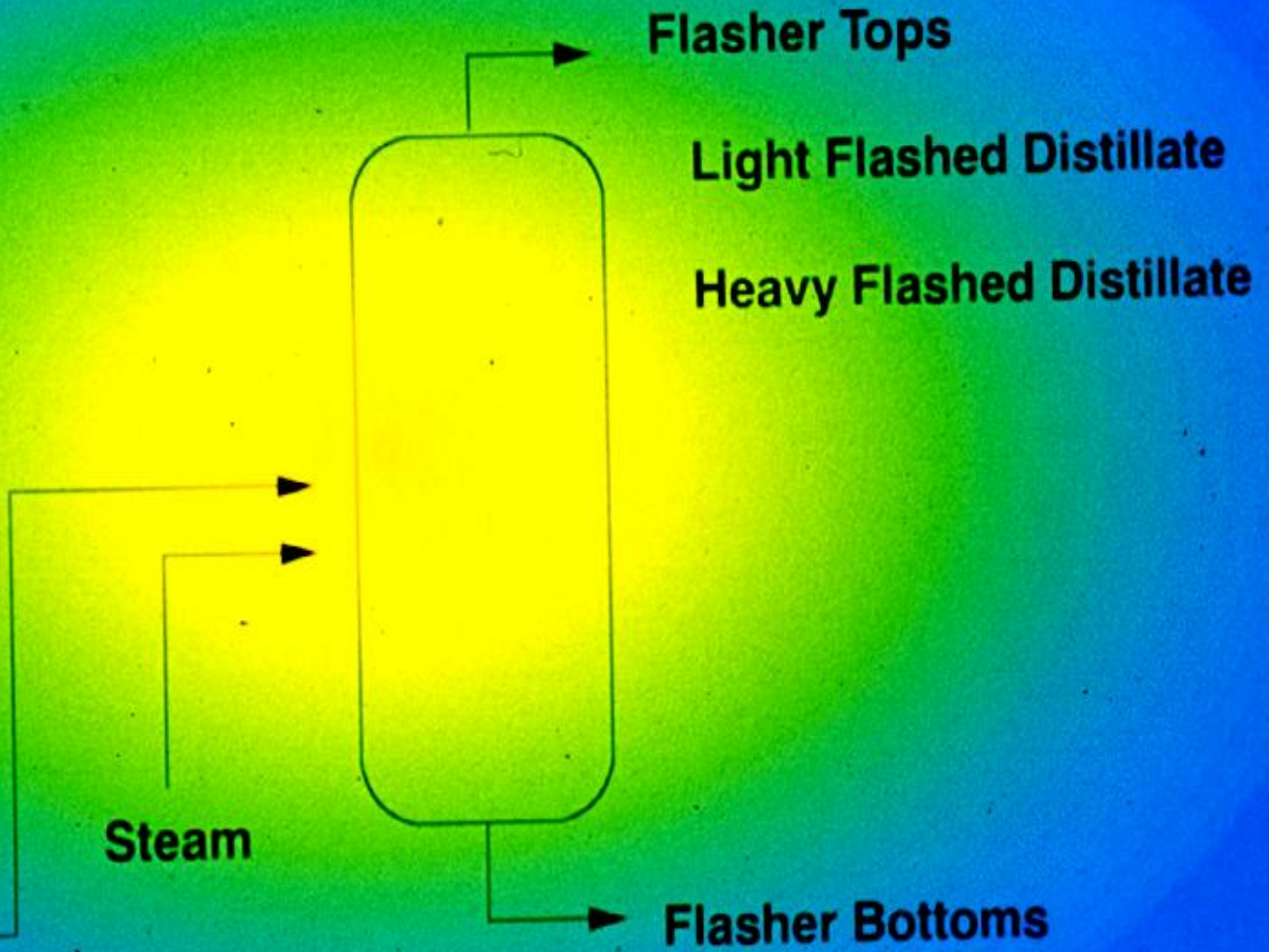




**Atmospheric Column
(Crude Unit)**



Vacuum Flasher



Flasher Tops

Light Flashed Distillate

Heavy Flashed Distillate

Steam

Flasher Bottoms

Straight Run Residue

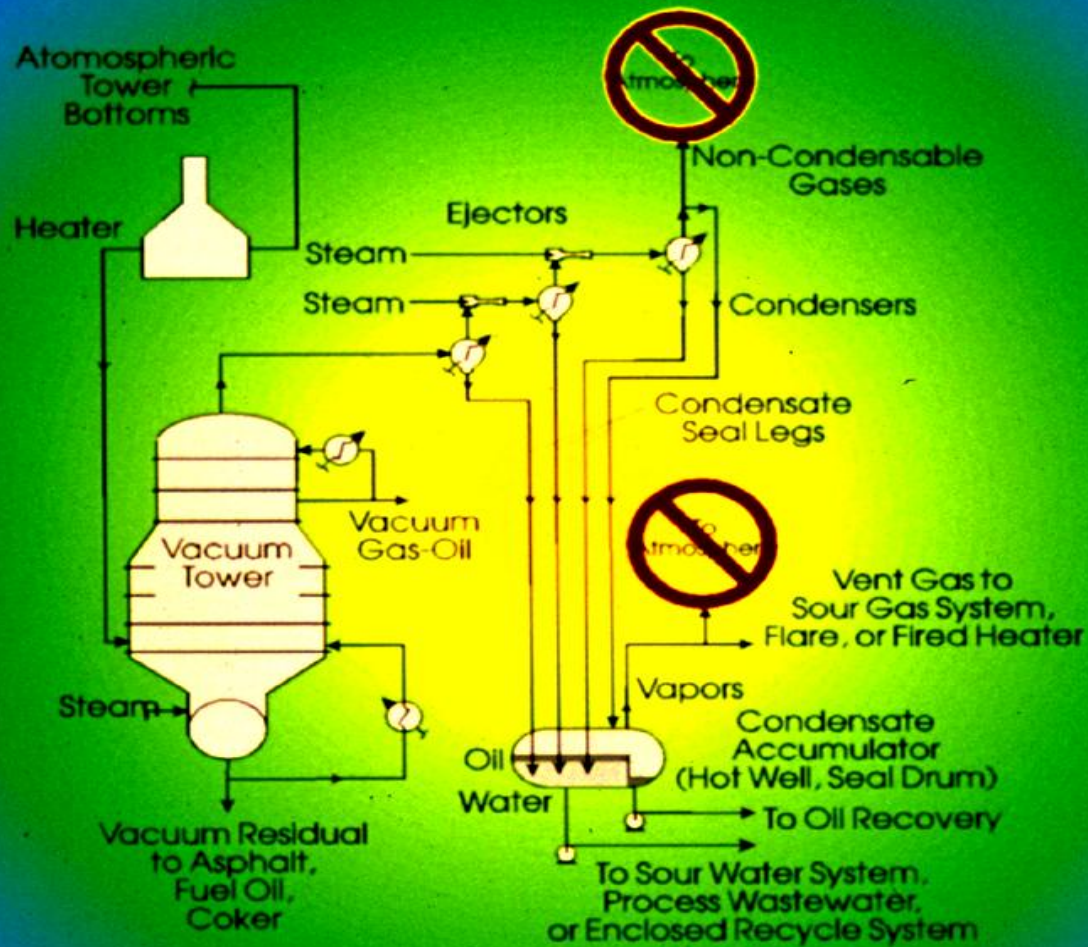
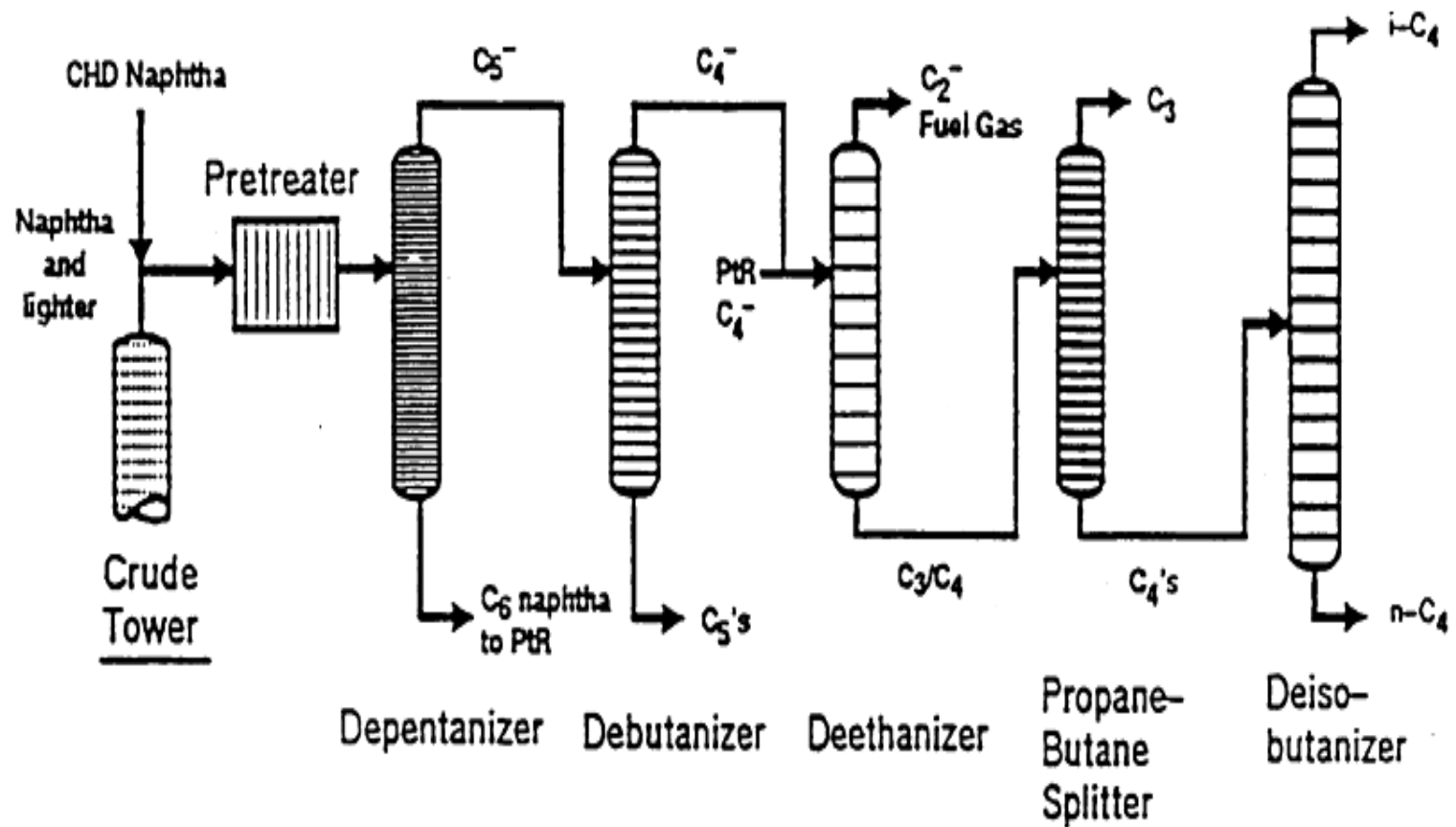
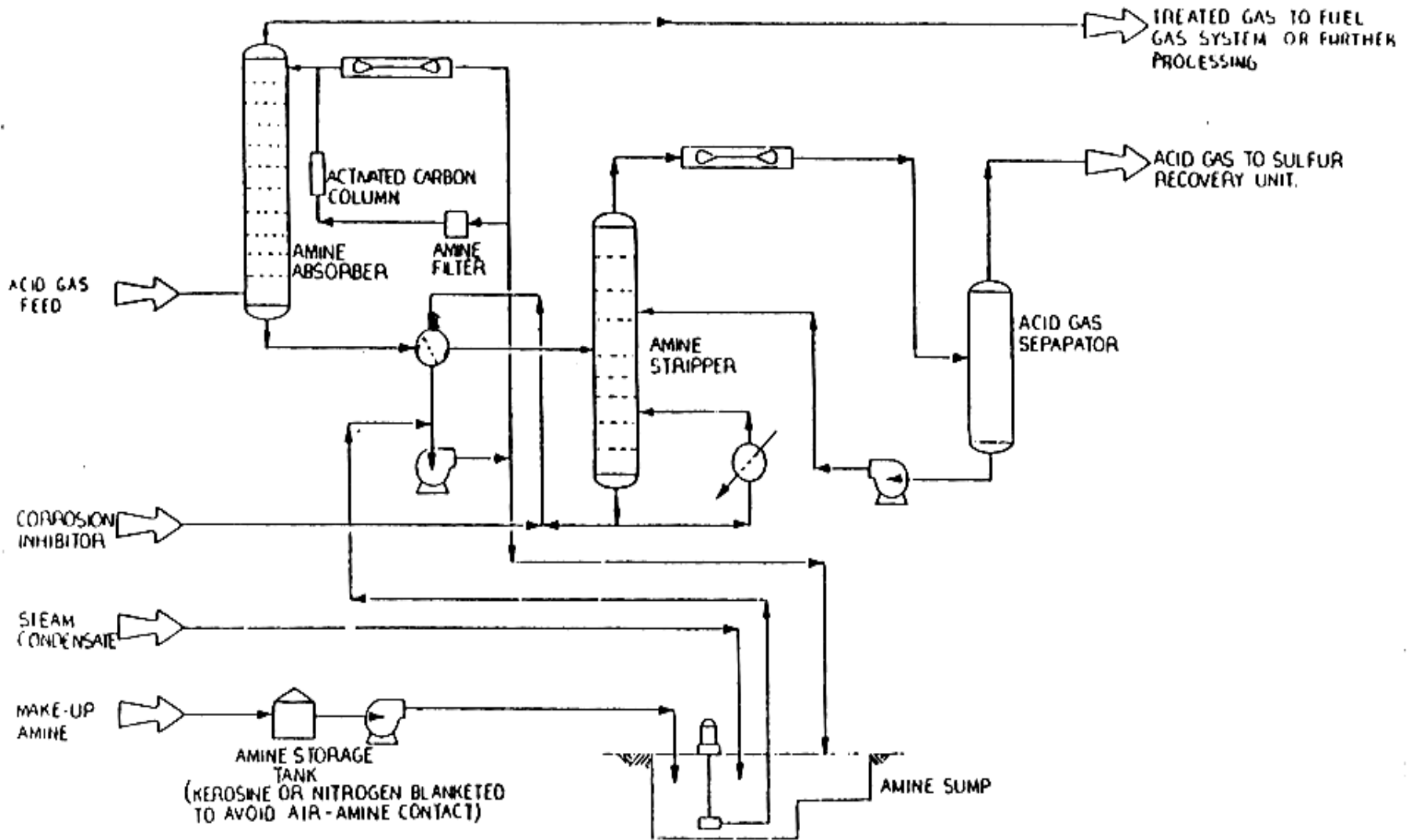


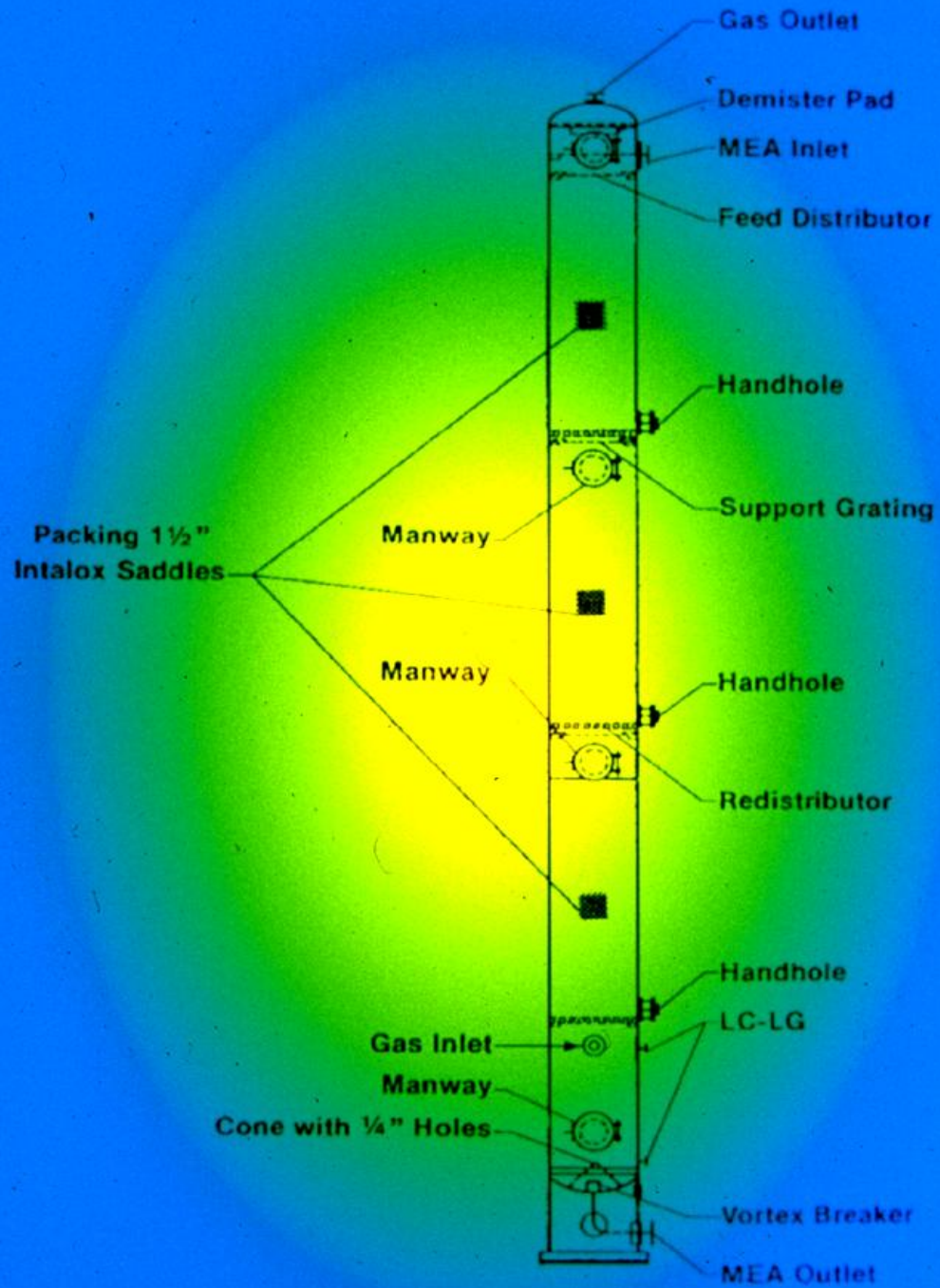
Figure 305.1
Vacuum Distillation Unit

SATURATED GAS PLANT

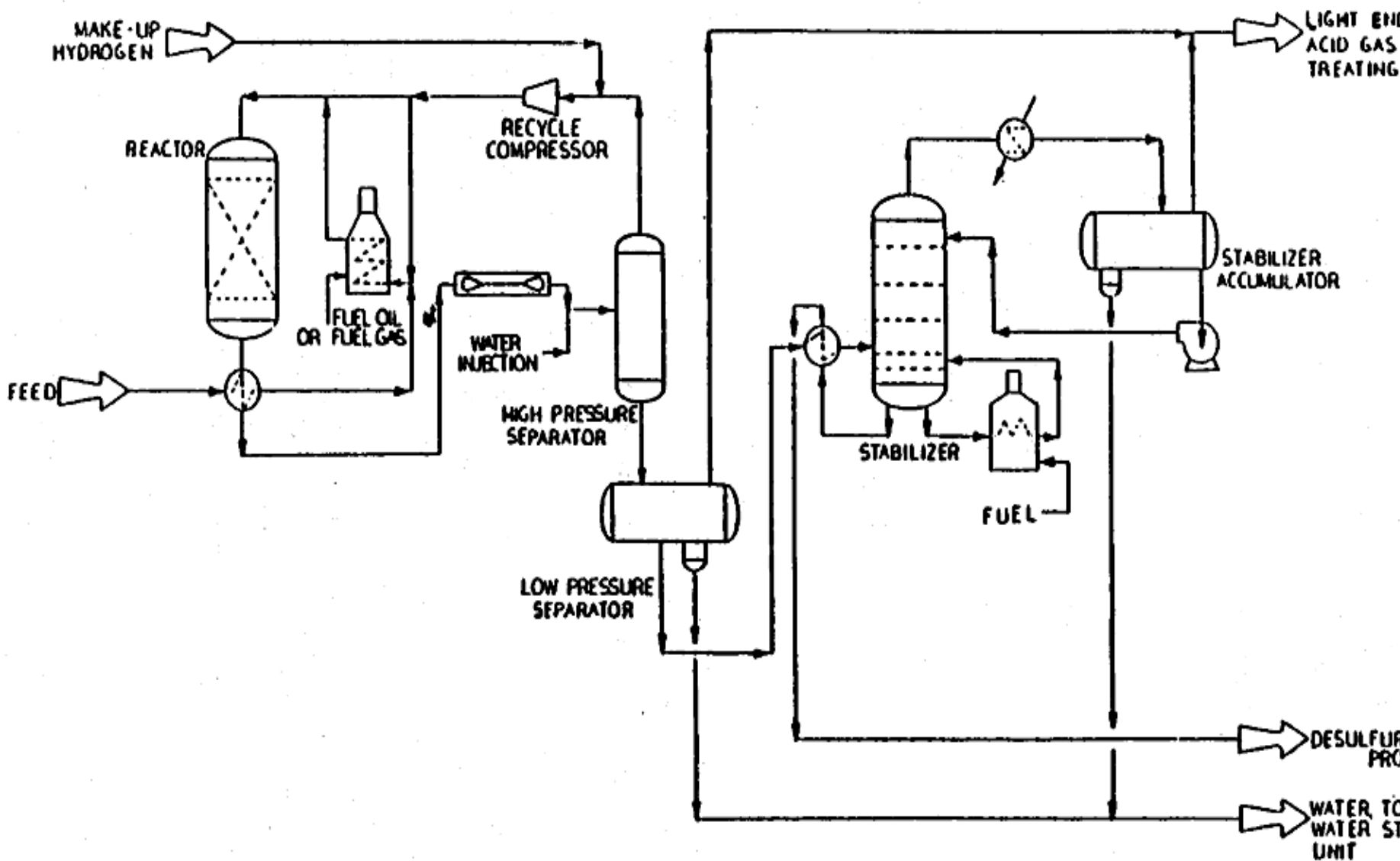


ACID GAS TREATING UNIT

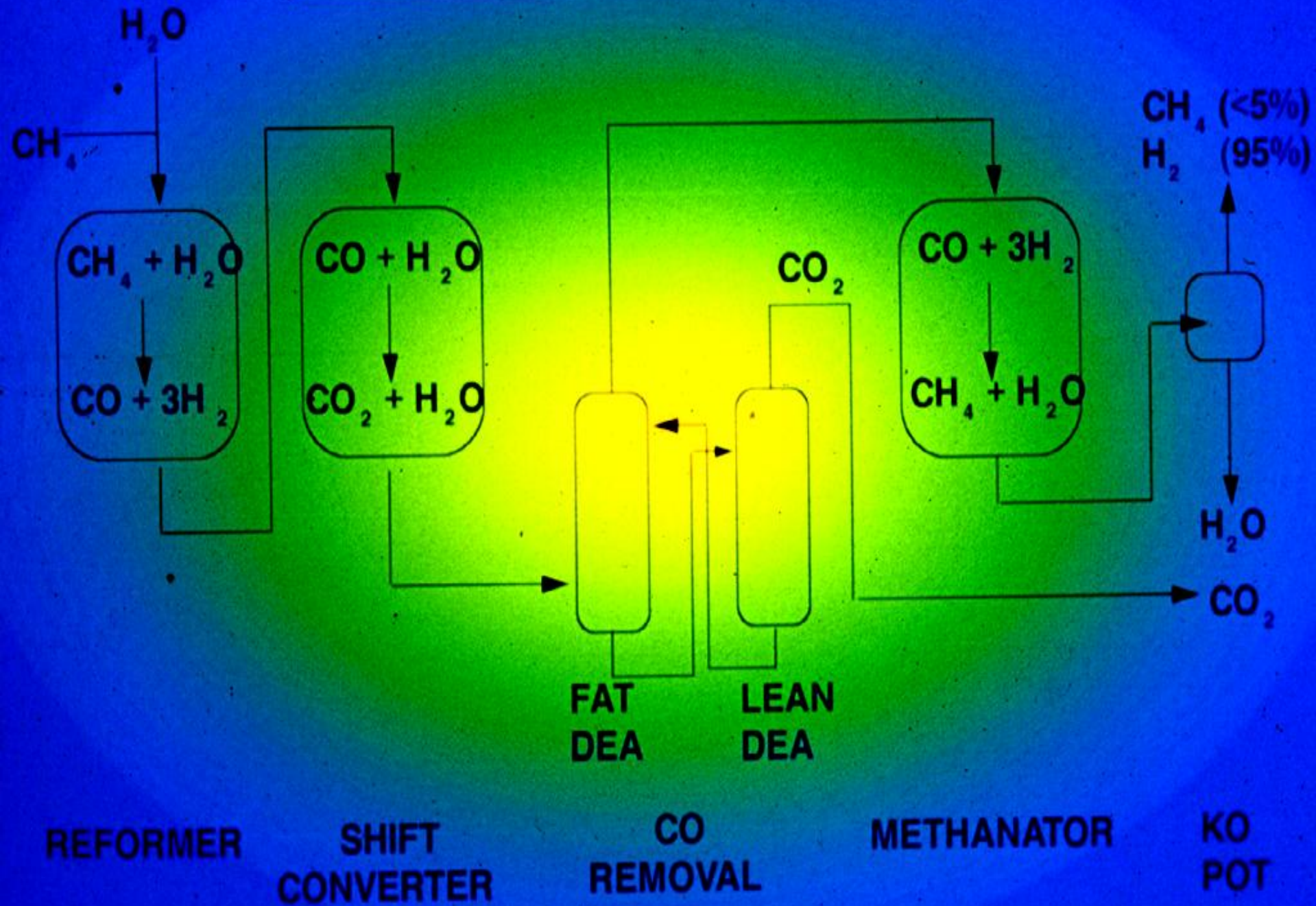




HYDROTREATING UNIT



Steam Methane Reformer



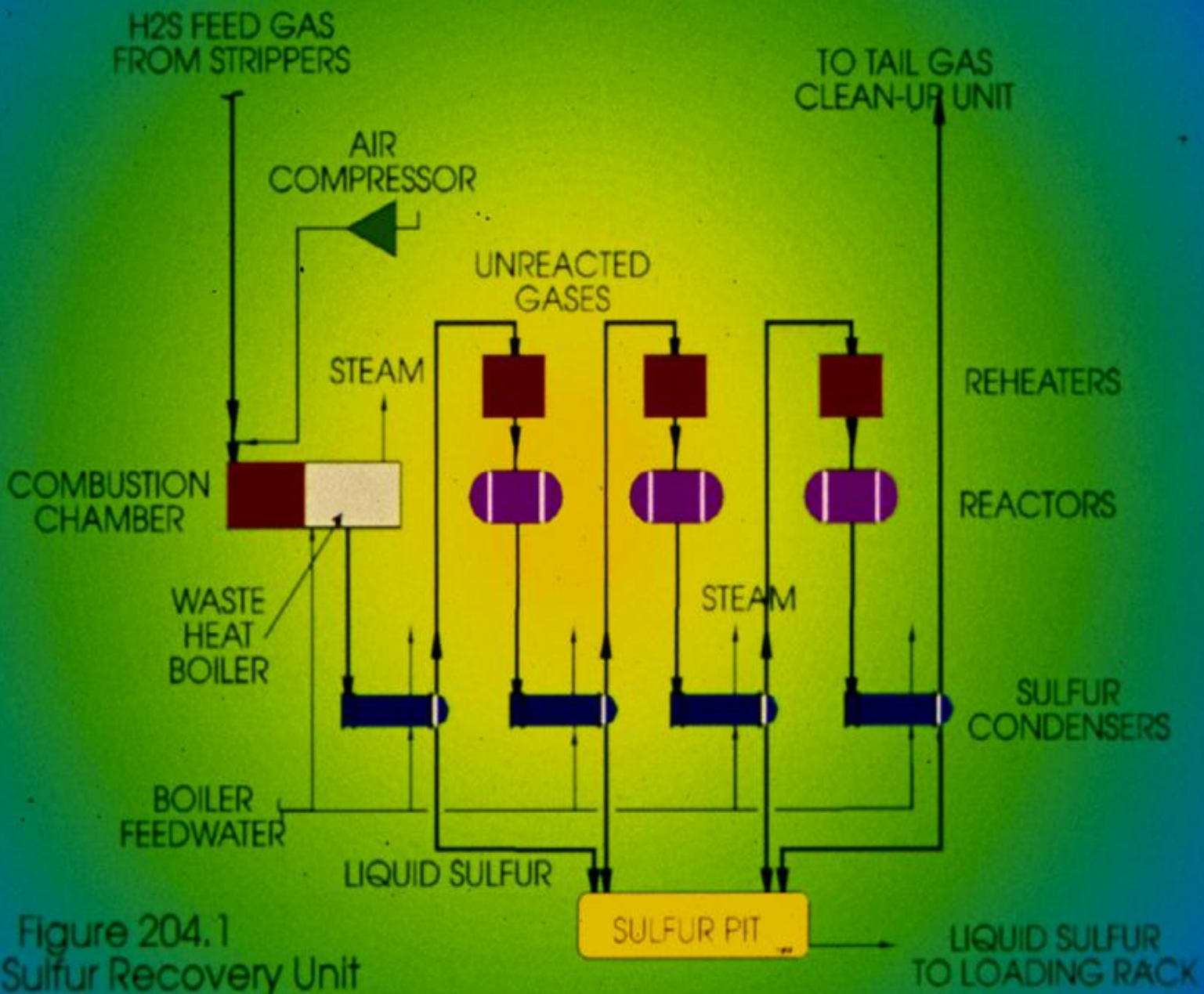


Figure 204.1
Claus Sulfur Recovery Unit

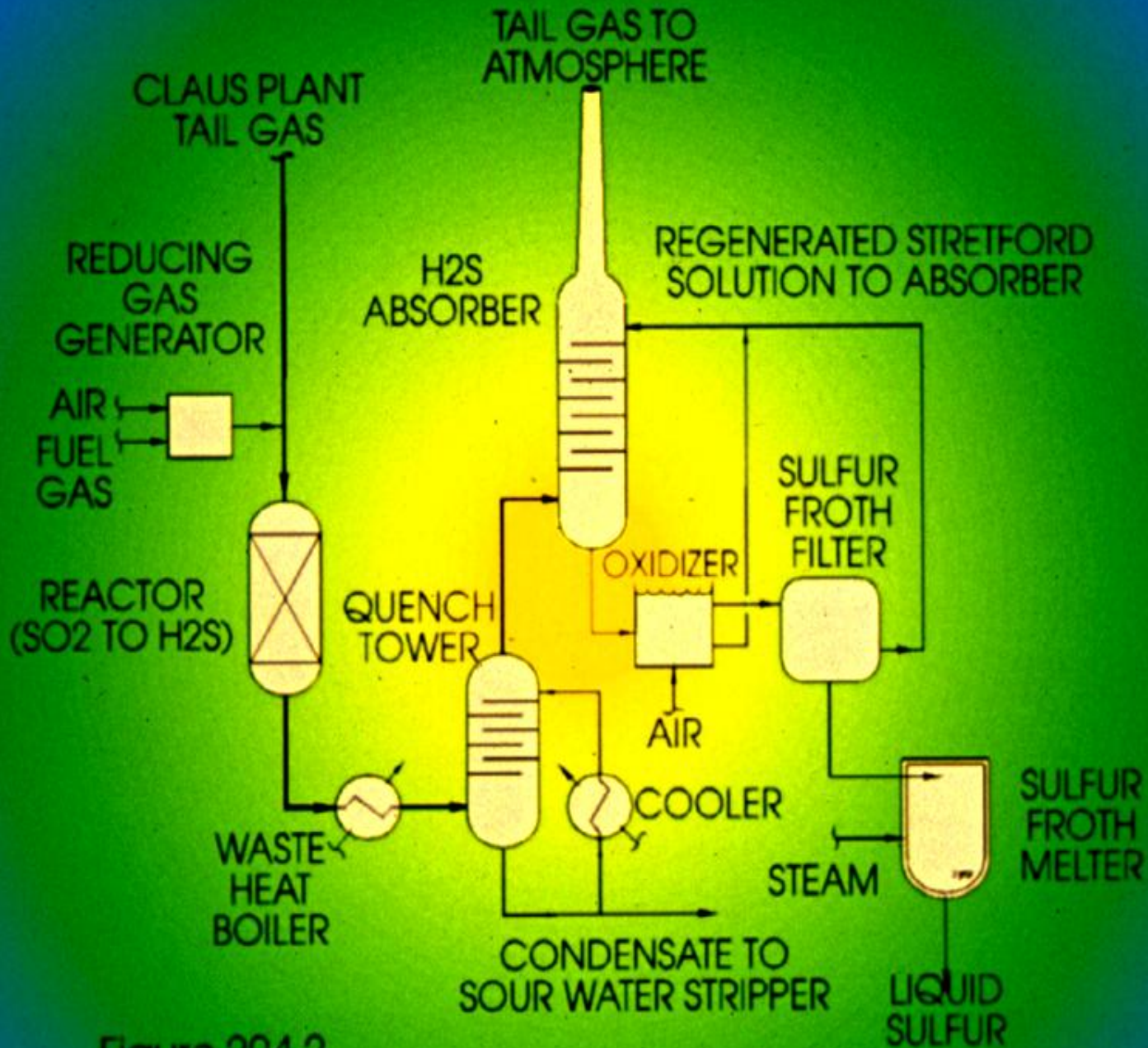
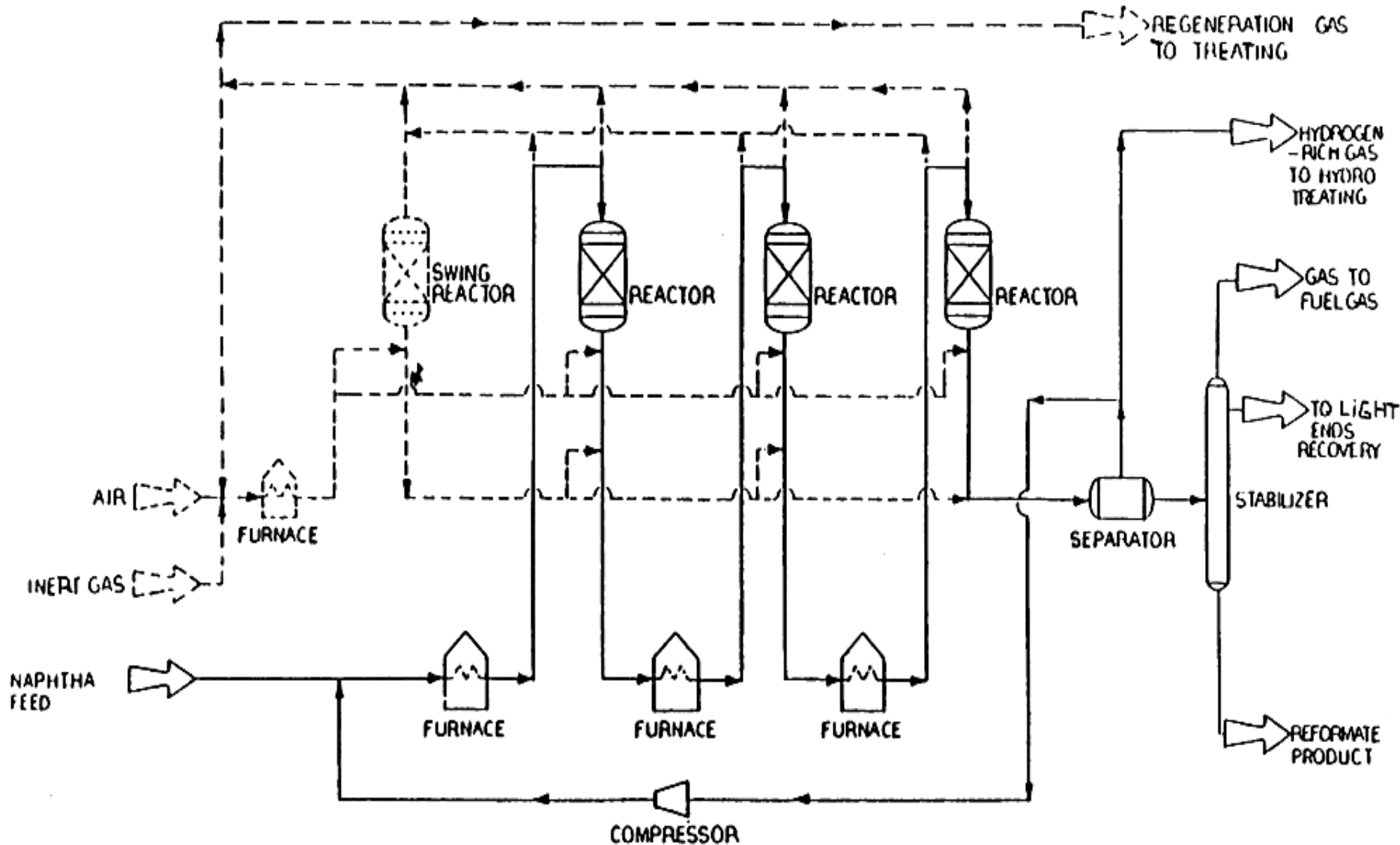
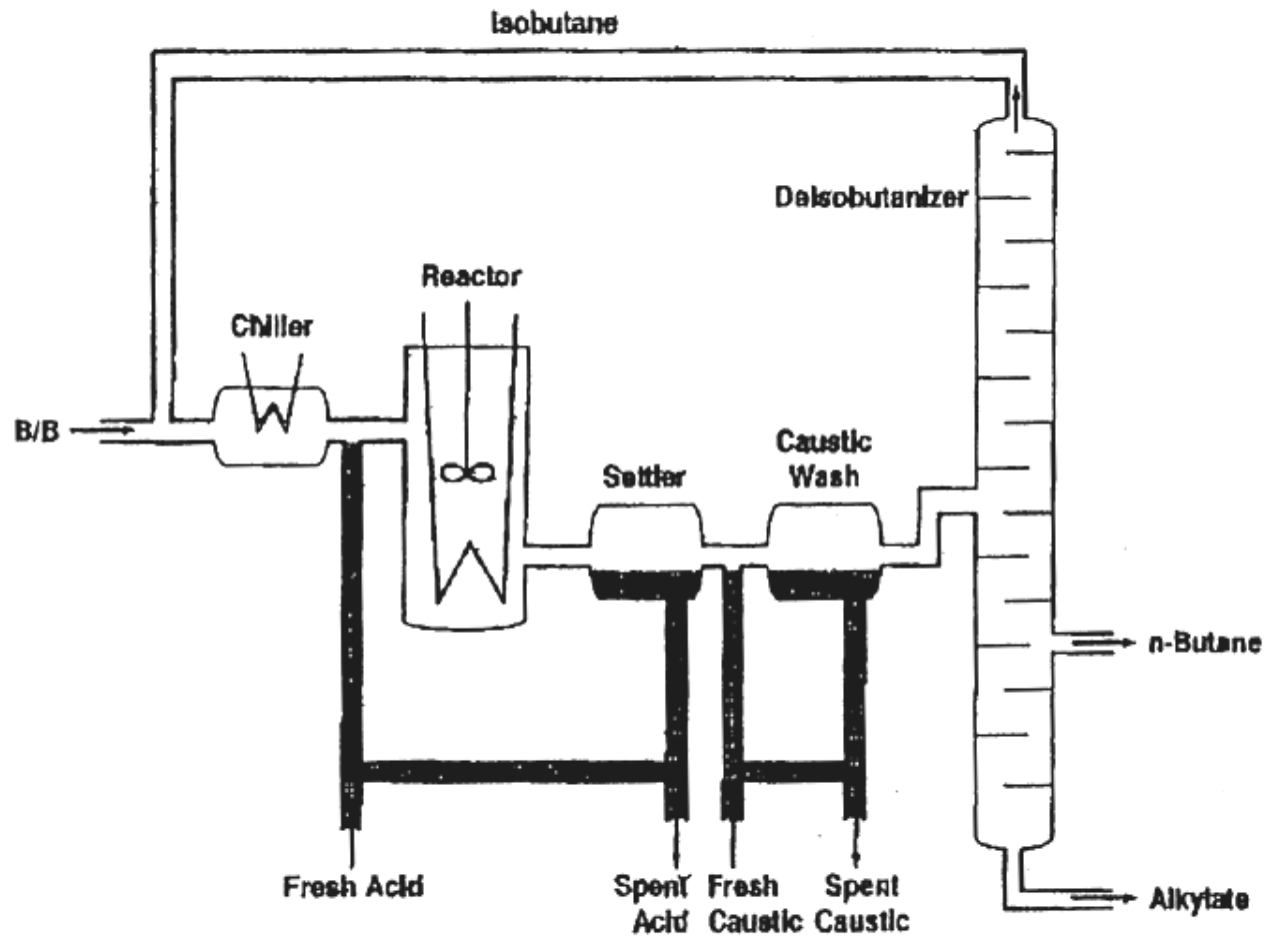


Figure 204.2
 Beavon Tail Gas Clean-Up Process

CATALYTIC REFORMING UNIT



Sulfuric Acid Alkylation



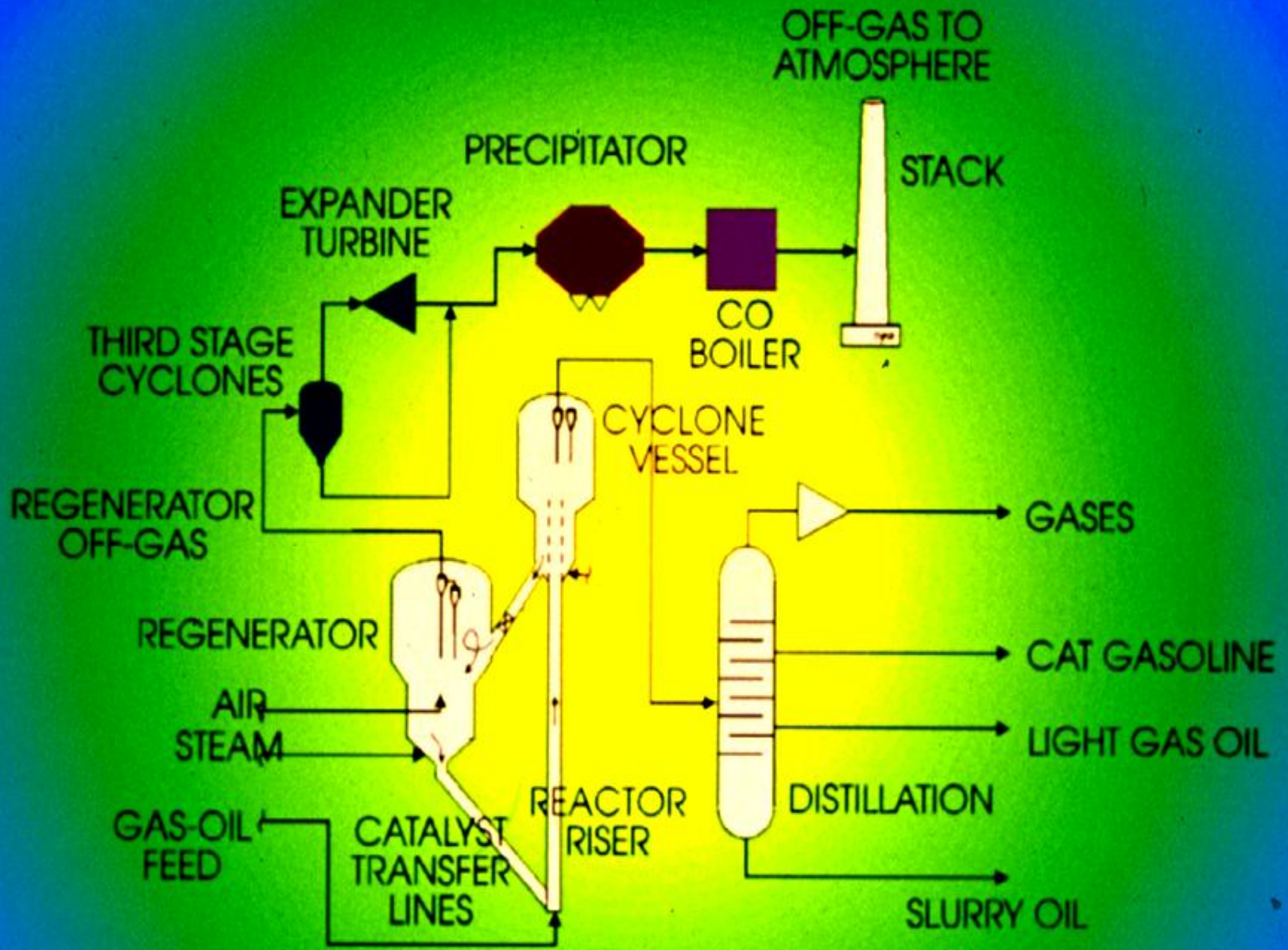
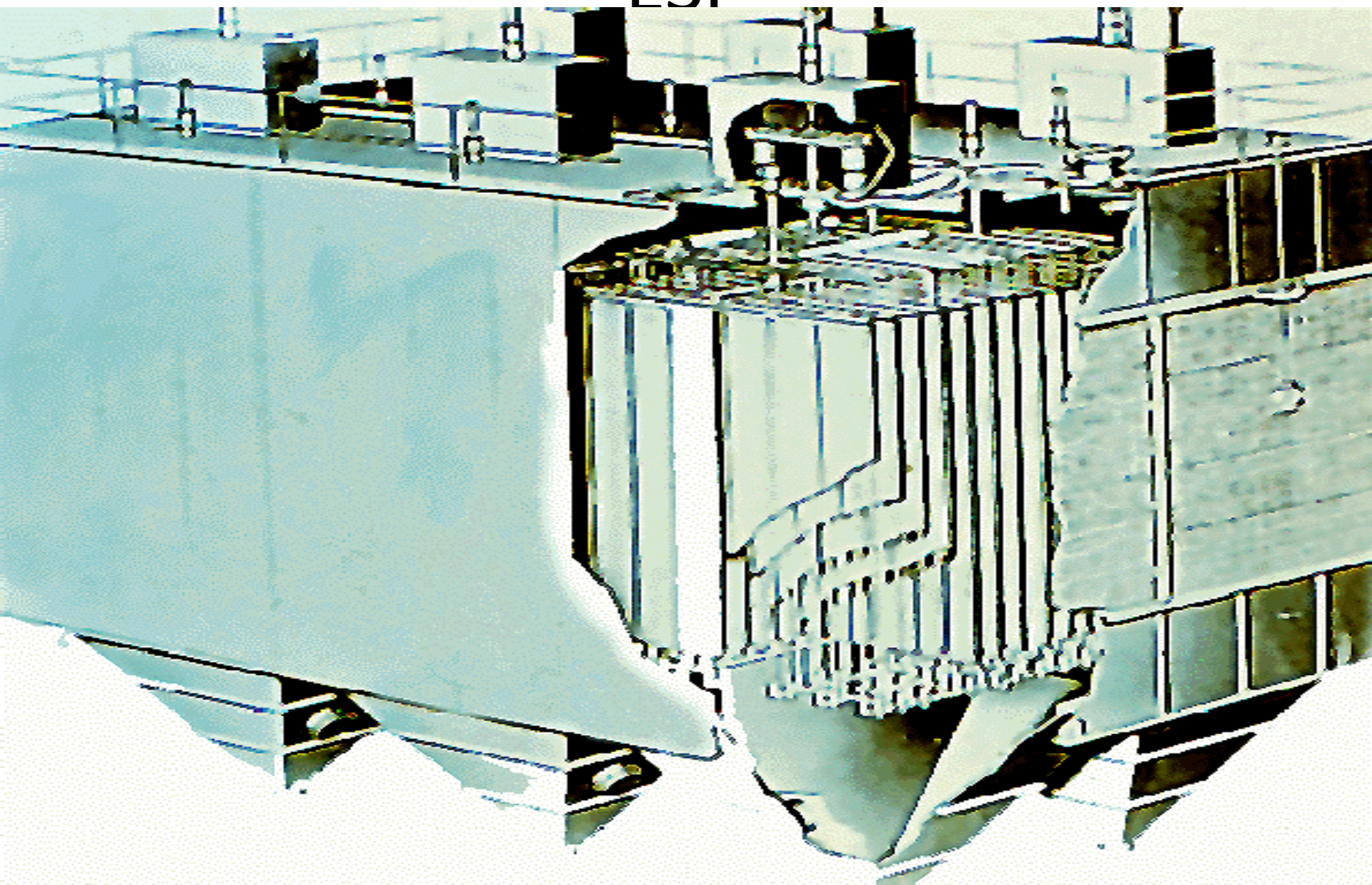
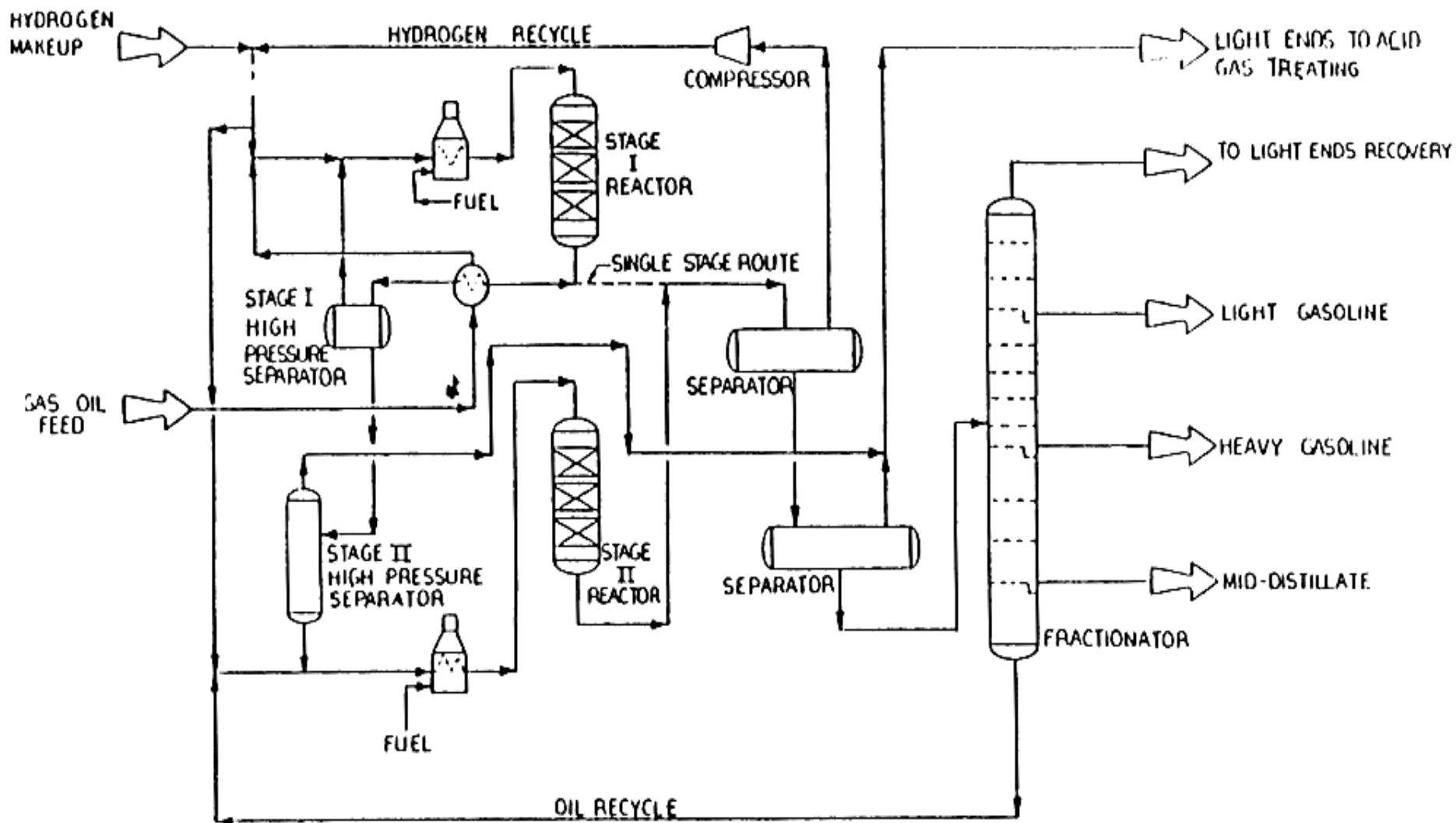


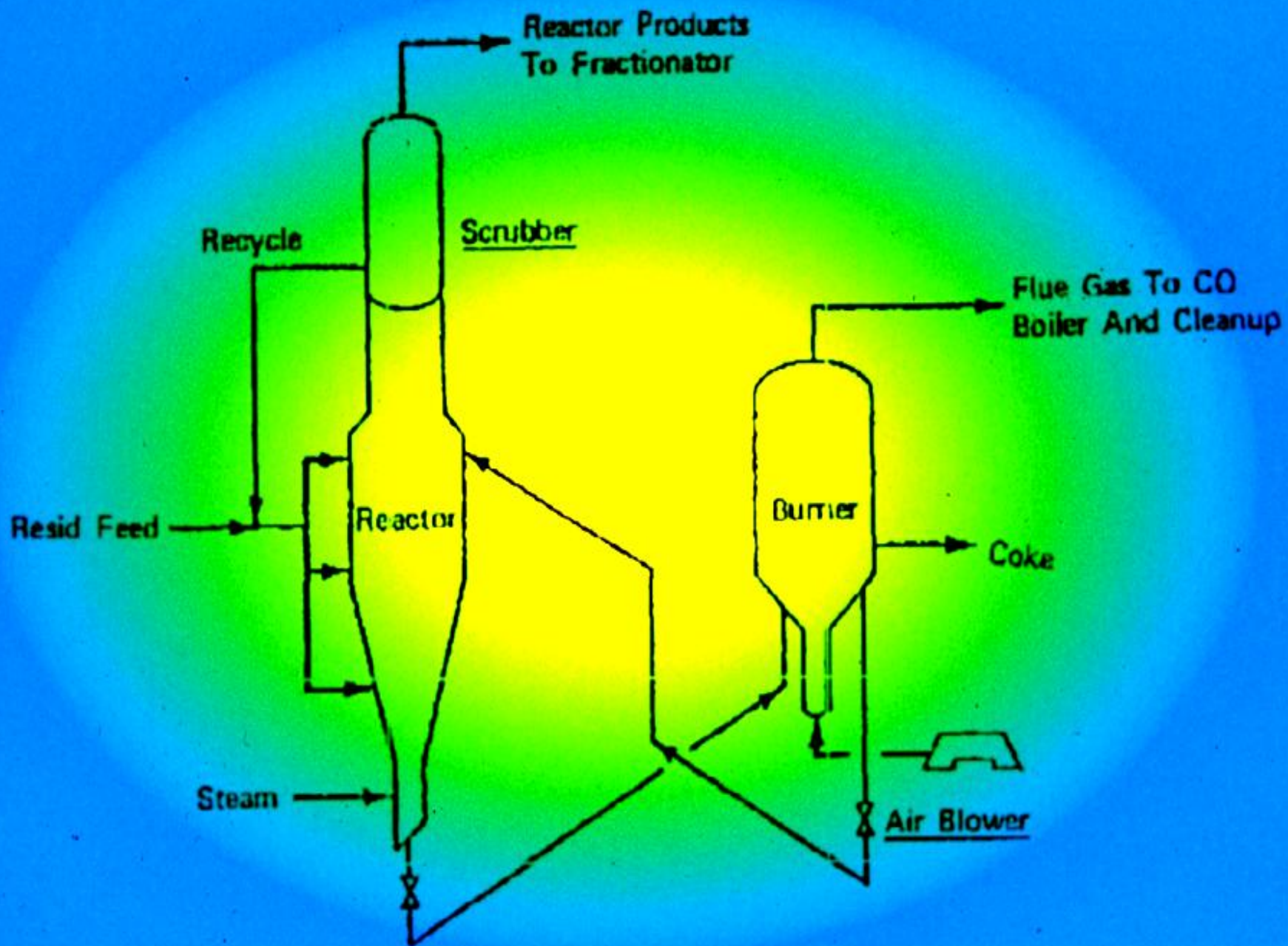
Figure 203.1
Fluidized Catalytic Cracking Unit

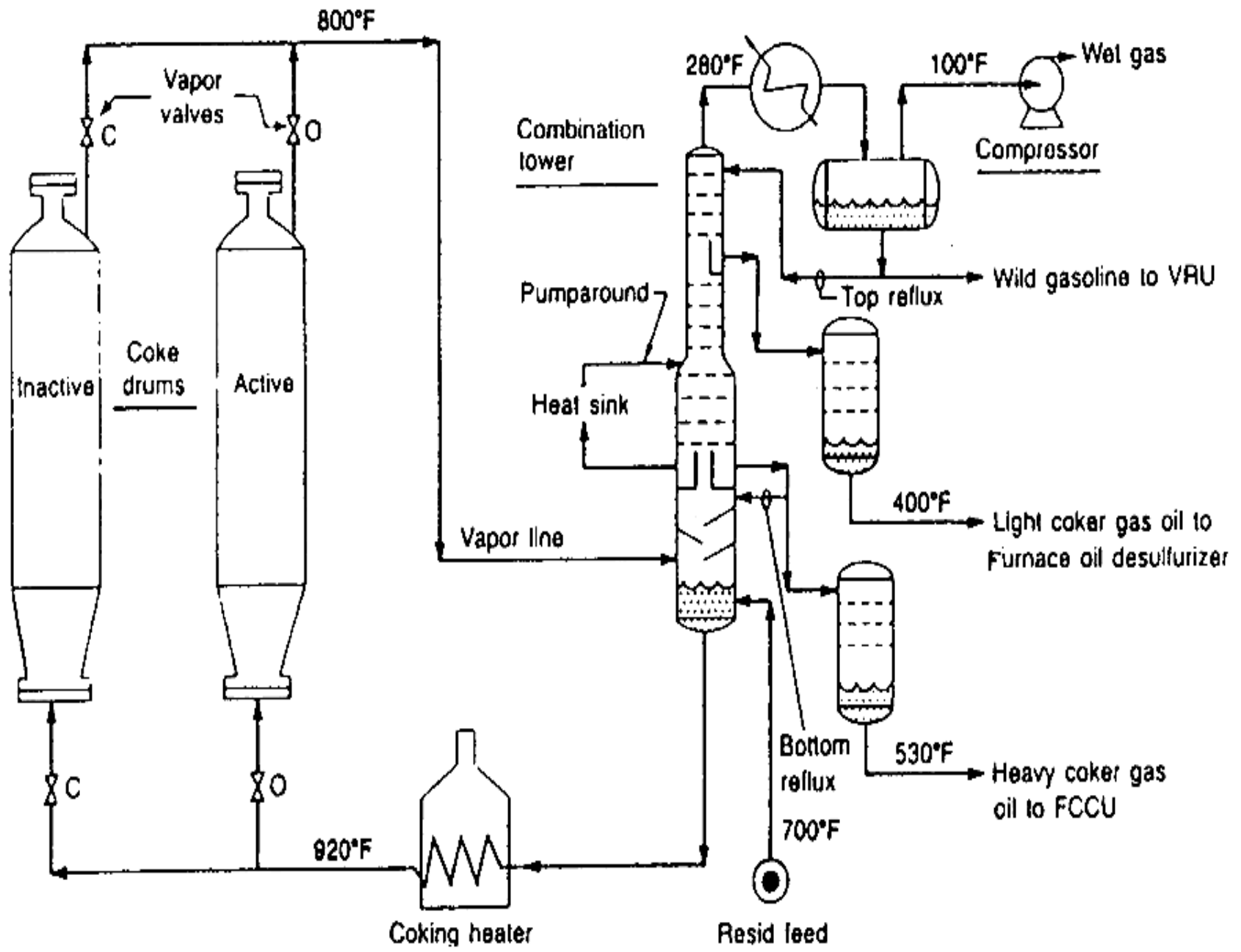
ESP



HYDROCRACKING UNIT







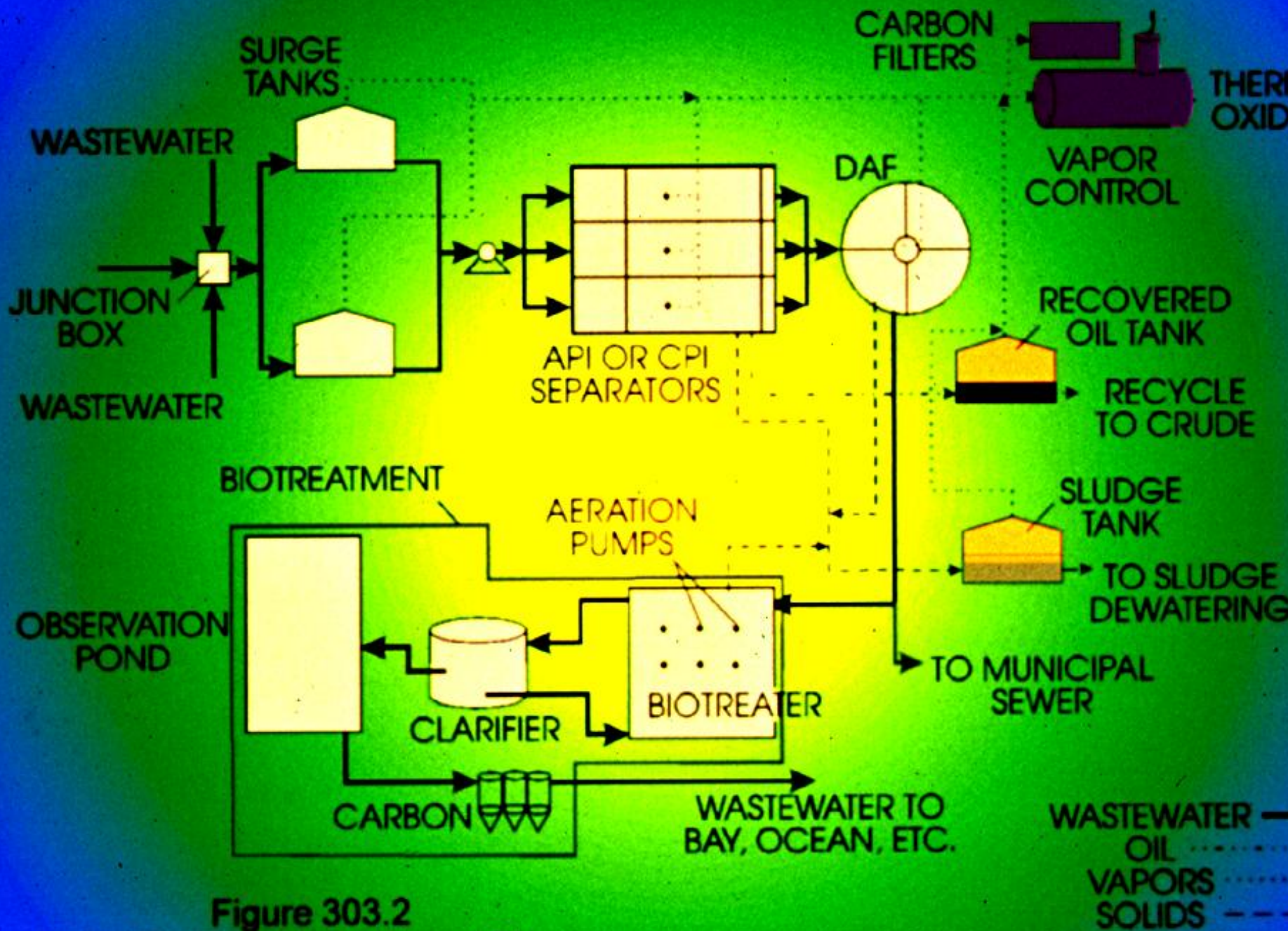


Figure 303.2
 Main Wastewater Treatment Flows

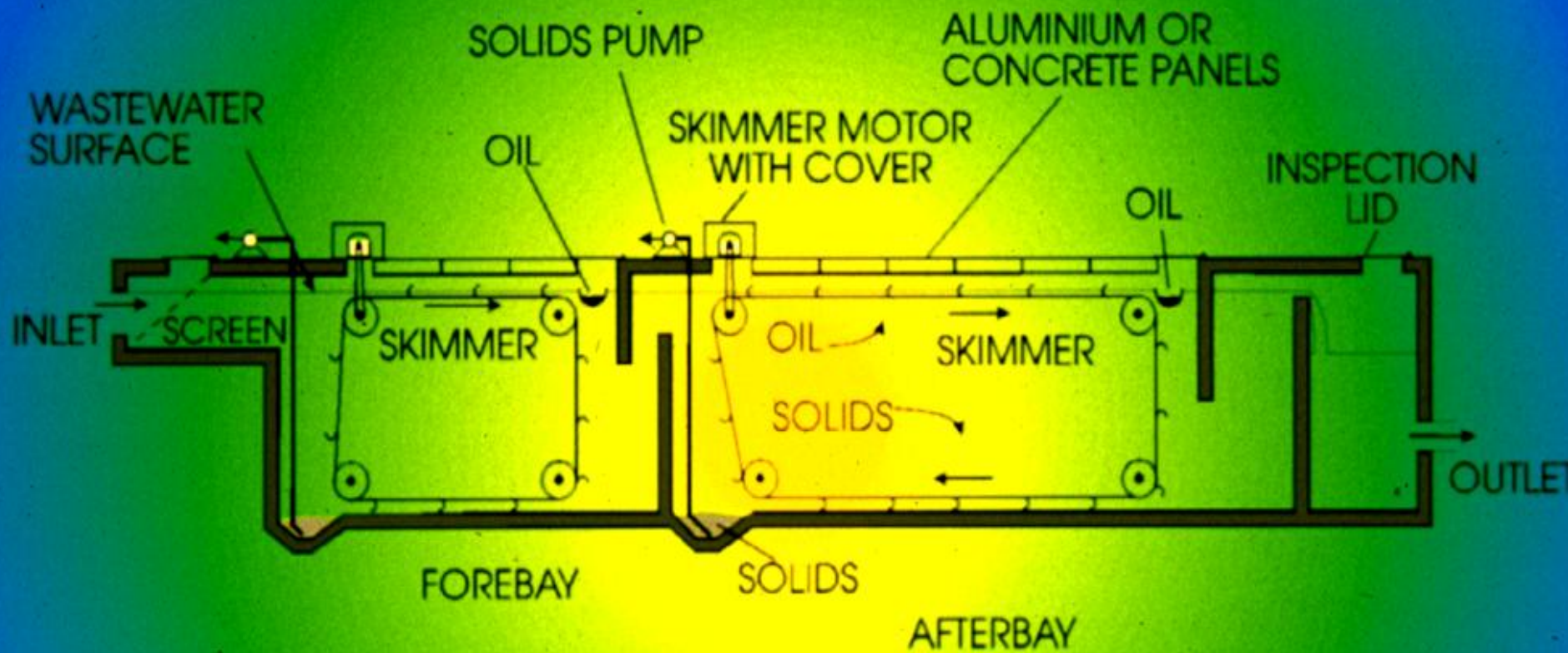


Figure 303.3
API Separator

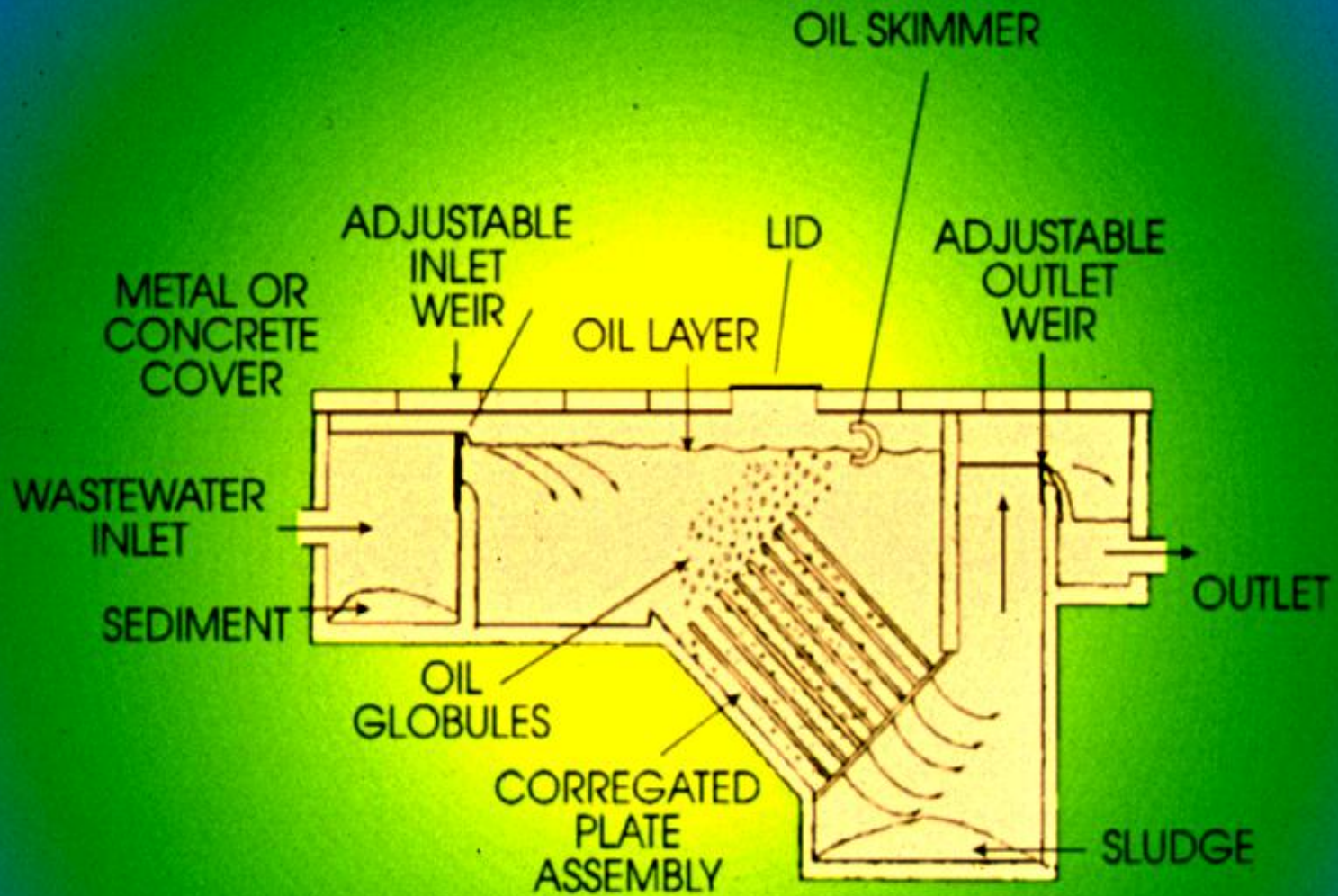


Figure 303.4 CPI Separator

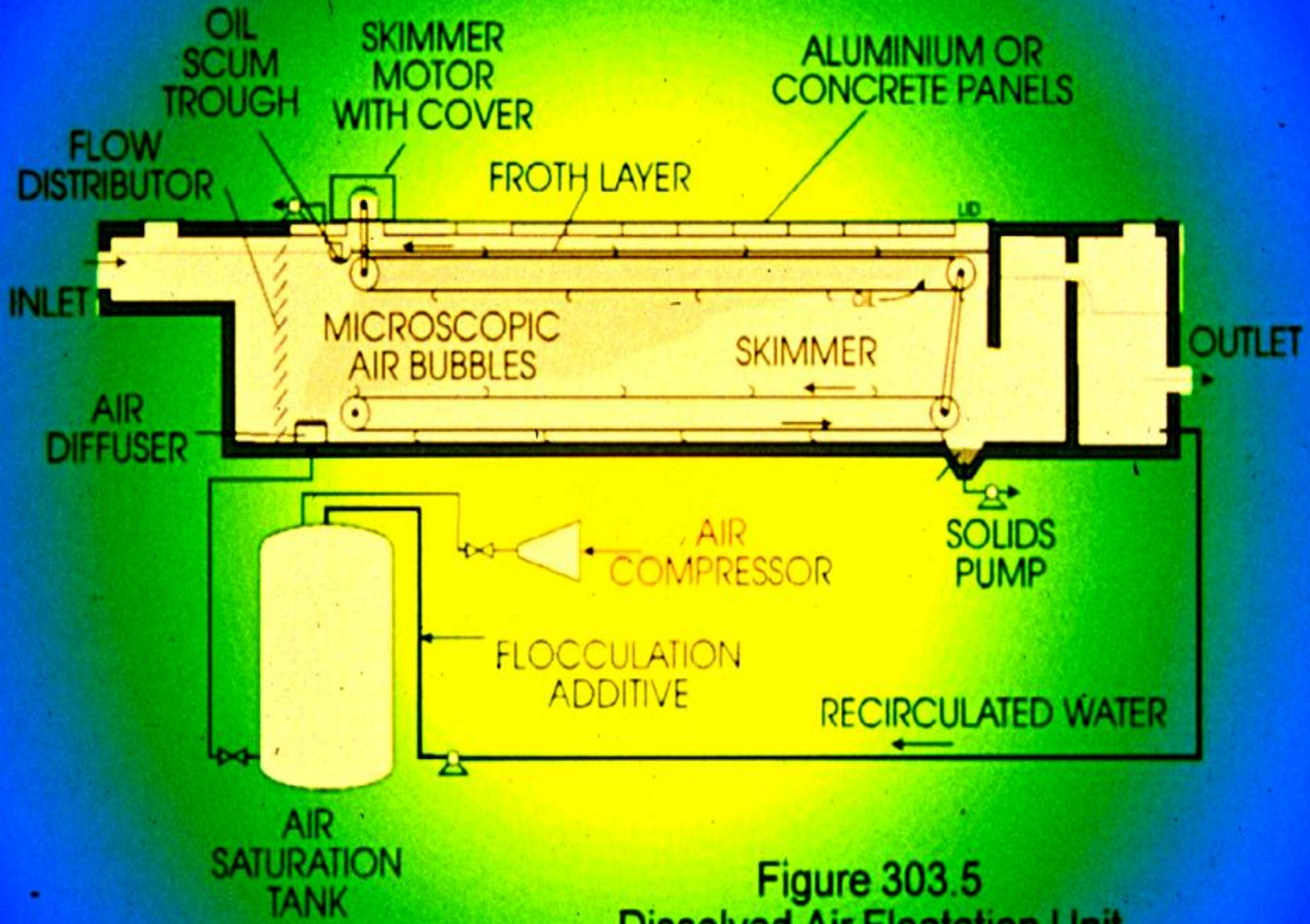


Figure 303.5
Dissolved Air Flotation Unit