

117,000 BPD Crude Oil Distillation Unit (CDU) for Sale

Capacity: 117,000 BPD
Atmospheric

Raw Materials: Crude Oil

End Product: Fuel Oil, Naphtha,
Ultra Low Sulfur Diesel,
Kerosene, Heating Oil, Off Gas

Process Information: This crude unit is designed to process a variety of crude feedstock and currently provides atmospheric distillation for end products of Gas Oil, Diesel, Jet Fuel / Kerosene, and Naphtha.

Major Equipment

- Crude Oil Feed Area
- Desalter
- Preheat Heat Exchanger Train
- Preflash Tower
- Furnace
- Crude Tower and Tower Overheads System
- Product Strippers and Rundown
- Tempered Water System



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BRIEF PLANT DESCRIPTION

Phoenix Equipment has for sale this 117,000 BPD Crude Oil Distillation Unit CDU from within a refinery complex. The CDU crude oil refinery unit is capable of 117,000 barrels per day atmospheric and is currently used to produce fuel oil, ultra-low sulfur diesel, heating oil, kerosene, naphtha and off gas. The crude oil starts in the CDU units feed area from "sweet" tanks and "spiking" tanks and onto the desalter, where crude oil containing inorganic salts and solid particles is treated with water and electricity to reach satisfactory desalted crude. Crude exits the desalter and enters the preheat train and is divided into three separate streams. Next, the crude enters the preflash tower to remove the most volatile components, reducing the vapor load in the main column to protect the furnace and crude tower from excessive water carryover from the desalter. The furnace consists of 2 radiant fireboxes, each fitted with 8 combined gas and steam atomized oil burners. The crude tower strips the crude oil to lighter ends as it moves up the column and before exiting to other units of the refinery to make lighter or heavier end products.