

170,000 BPD Crude & Vacuum Distillation Unit for Sale

Capacity:

Design capacity 170,000 BPD
Can run at 65,000 BPD without losing efficiency.

Year Built / Shut Down: 1976 / 2014

Product:

Naphtha
No. 2 fuel oil
Heavy atmospheric gas oil (HAGO)
LPG

Typical Crude Oil Feed:

60% sour blend and 40% sweet blend
Lighter crude oil
Sweeter crude oil

Major Equipment:

- Crude distillation tower
- Vacuum distillation tower
- Debutanizer tower
- Crude oil preheater
- Crude oil heater
- HAGO product cooler
- No. 2 Fuel oil stripper
- Light oil sour water stripper
- Crude tower reflux drum
- Straight run naphtha drum
- Naphtha product cooler
- Steam generator
- Vacuum drier
- Desalter vessel
- Crude tower preflash drum



BRIEF PLANT DESCRIPTION

Phoenix Equipment has this Atmospheric Crude Oil Distillation Unit (CDU) with Vacuum Distillation (VDU) for immediate sale. This CDU & VDU is capable of 65,000 - 170,000 barrels per day. The unit preheats, de-salts, and separates crude oil into naphtha, No. 2 fuel oil, heavy atmospheric gas oil (HAGO), and atmospheric tower bottoms with the crude tower and preflash drum. The HAGO and No. 2 fuel oil are stripped of light hydrocarbons and dried respectively. Naphtha is further refined by the debutanizer tower, which separates the unstabilized straight run naphtha into a bottoms product of naphtha and an overhead stream of liquefied petroleum gas. The sour water stripper removes hydrogen sulphide, ammonia, and other impurities from sour water, then returns it to the desalter. The design basis is a mix of 60% sour blend and 40% sweet blend. However, the unit is flexible to work with various feedstock. Depending on availability of crude types, a lighter and sweeter crude oil mix may be fed to it.

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