

1,500 BPD Vapor Recovery & Hydrocarbon Liquids Distillation Unit

Capacity

1,500 barrels per day

Feedstock

Hydrocarbon liquids such as

- Light and heavy distillates
- Refinery condensates
- Off-specification gasoline and diesel
- Recycled hydrocarbon vapor
- Waste oil mixture
- Light crude oil

Products

- Gasoline
- Diesel
- Fuel oil

Major Equipment

- Distillation column
- Absorption column
- Electric oil heater
- Compressor
- Lean / rich oil interchanger
- Lean oil chiller
- Stripper overhead chiller
- Lean oil cooler
- Stripper reboiler
- PLC control



BRIEF PLANT DESCRIPTION

The unit was originally designed to use lean oil absorption technology to collect hydrocarbon vapor/air mixture from marine docks, tank truck, railcar and storage tanks, and then to use distillation process to make gasoline, diesel and oil products. The unit includes three main process sections: (1) Vapor recovery (lean oil absorption), (2) Regeneration of absorbent fluid, (3) Distillation. The vapor recovery consists of the hydrocarbon vapor/air mixture entering the bottom of a packed column, counter-flowing upward, impinging on absorbent wetted packing. A chilled absorbent fluid enters the top of the tower and begins a downward flow wetting the packing. The air exits the column top stripped of the hydrocarbon vapors. The hydrocarbon vapor, captured by the absorbent fluid, exit the column bottom. If the feedstock is not vapor, the production skips the absorption and regeneration sections, and directly starts from the distillation. It is a good processing unit for condensate, light crude oil, waste oils.

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