

Distillation of crude oil products

Référence : DDP/1000



Discontinuous distillation of gas oil according to ASTM D 2892-95

Discontinuous process

GENERAL SPECIFICATIONS

- Spherical stainless steel kettle, 6 L, removable heating baffle.
- Heating mantle.
- Magnetic stirrer with variable speed, stirring bar, & manual lift table.
- Adiabatic fractionating glass column, Multiknit packing, removable heat insulation.
- Adiabatic reflux divider, glass jacketed condenser.
- Distillate cooler in glass.
- Sampling funnel.
- Graduated glass receiver, 1 L.
- Heating/cooling unit .
- Vacuum pump, isolating valve, setting valve.
- Spill containment tray.

Instrumentation

- 4 temperature probes Pt100Ω.
- Differential pressure transmitter.
- 2 absolute pressure transmitters.
- Safety thermostat.

Dim : 180 x 80 x 290 cm – 350 kg SS tubular framework 40 x 40mm

Categories: Chemical processing Distillation Educational Engineering

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DESCRIPTION

Refinery treatment processes

Crude oil and its cuts are mainly composed of hydrocarbons. Refinery treatment processes are

separation and transformation techniques enabling to extract its different fractions and to produce

several products , from gases to asphalts and coke. Depending on the crude oil source,

the cuts have not the same quality and quantity. An industrial unit designed for crude

distillation is generally calculated and dimensioned for a defined feeding crude oil.

In fact, all new oils have to be analysed and characterized (number and quality of cuts mainly)

so that mixtures are prepared to feed the industrial unit with the characteristics needed.

Therefore, by mixing different oils, it is possible to feed the refinery with an almost

constant composition mixture and have only one industrial unit to process all crude oils.

The ASTM standard proposes a procedure to characterize crude oil. This standard enables

to compare the obtained results wherever the analysis is done.

Fractional distillation under reduced pressure

Measurement of parameters of the different fractions distilled

Definition of T.B.P. curve



Unités livrés avec un manuel pédagogique et dossier technique



Possibilité d'adapter les unités à vos besoins



Mise en service, formation des formateurs

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