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In designing a distillation column, the thermodynamics of the vapor and liquid phases must be understood. The vapor-liquid equilibrium (VLE) determines the minimum number of stages required to achieve the degree of separation needed. The minimum reflux ratio also depends on the VLE data of the mixture.

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#### **Guidelines for Processing** **[www.klmtechgroup.com](http://www.klmtechgroup.com) Kolmetz ...**

The design of trays depends on the density, the rate of vapor and liquid through the tray. Each tray in a distillation column is designed to promote contact between the vapor and liquid on the stage, so there is mass and heat transfer. Ideally, the vapor and liquid leaving the stage are in equilibrium.

#### **Distillation Column Tray Hydraulics** **... - [Kolmetz.com](http://Kolmetz.com)**

For an initial design, it is adequate to set the distillation pressure to as low a pressure above ambient as allowed by cooling water or air cooling in the condenser. An initial starting value might be selected so that the bubble point of the overhead product is 10°C above the summer cooling water temperature. 2.

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In 2014 we renamed the "Engineering Design Guidelines" to the "Kolmetz Handbook of Process Equipment Design". Engineering Design Guidelines are typically a collection of multiple industry references which need to be reviewed by an operations personnel or design engineer when designing or specifying a piece of equipment such as a control valve, relief valve or heat exchanger.

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#### **air separation units (engineering design guideline ...**

Crude distillation unit (CDU) is at the front-end of the refinery, also known as topping unit, or atmospheric distillation unit. It receives high flow rates hence its size and operating cost are ...

#### **(PDF) REFINERY ATMOSPHERIC CRUDE TOWER SELECTION, SIZING**

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Design, modeling and simulation have been conducted for the examined extractive distillation configurations and the optimum design is selected based on minimum total annual cost as the objective ...

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