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Product Name :
Continuous Rectification

Product Code :
LBNY-0005-1270009



Description :

The mixed vapour contains a higher concentration of the component with the lower boiling point (ethanol). It leaves the top of the column and is condensed using a condenser and a phase separation tank. Distillation is used to separate liquid mixtures made up of individual liquids that are soluble in one another. Rectification refers to distillation in a counterflow. Part of this condensate is collected in a tank as product while the rest is fed back into the column. The mixed vapour produced then moves upwards in the column. Here, on its way downwards, it undergoes further heating and material exchange with the rising mixed vapour. Ethanol/water is recommended as the liquid mixture for the. It is fed into the column. It partially evaporates on its way to the bottom of the column where it is heated to boiling. The liquid phase moves to the bottom and can be collected in two tanks. This exchange causes the vapour phase to become richer in ethanol and the liquid phase to become richer in water.

Technical Specification :

Continuous and discontinuous rectification with packed and sieve plate column
Packed column with Raschig rings
Vacuum mode possible with water jet pump
Interchangeable columns
Heat exchanger for bottom product cooling due to feed preheating or cooling water
Sieve plate column with 8 plates, 3 feed inlets
Electrically heated evaporator
Condenser and phase separation tank for top product
Tanks for feed, bottom and top product
8 temperature sensors per column

Adjustment of reflux ratio using valves.



Laboratory Instrument India