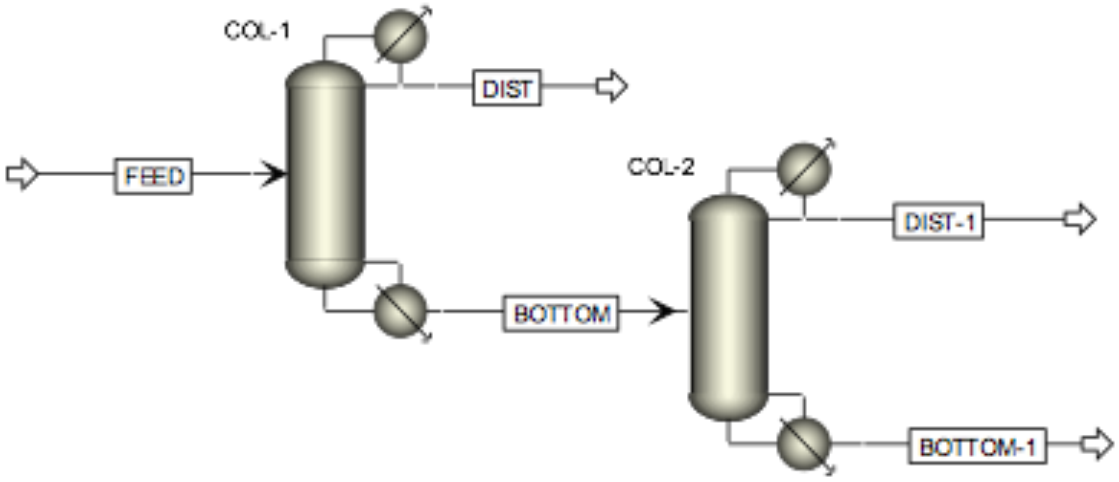
Description -

Ethyl Acetate(EA)-Water-Ethanol Separation Systems

Process Flow Diagram



Process Description

Ethyl acetate (EA), water and ethanol mixture is fed to the first column and the ethyl acetate is removed in this column. Bottom product of first column is fed to second column to remove ethanol at azeotropic composition. The required ethanol purity is 94.5 % (wt.)
The typical feed condition is

Ethyl Acetate	**01-05 % (wt.)**
Water	**45-55% (wt.)**
Ethanol	**45-55% (wt.)**

Operating Conditions

Pressure	Distillation columns are operating under atmospheric pressure
Column Internals	Structured packing for the column is (Type FP-2.5L)
	Wiremesh structured packing for the column is (Type WM 5.0M)

Experience

Finepac® Structures has supplied a number of separating systems involving azeotropic distillation. Ethyl acetate-water-ethanol is a typical system involving ethyl acetate-water and ethanol-water azeotrope. The design involves prediction of azeotrope of ethyl acetate-water and ethanol-water.