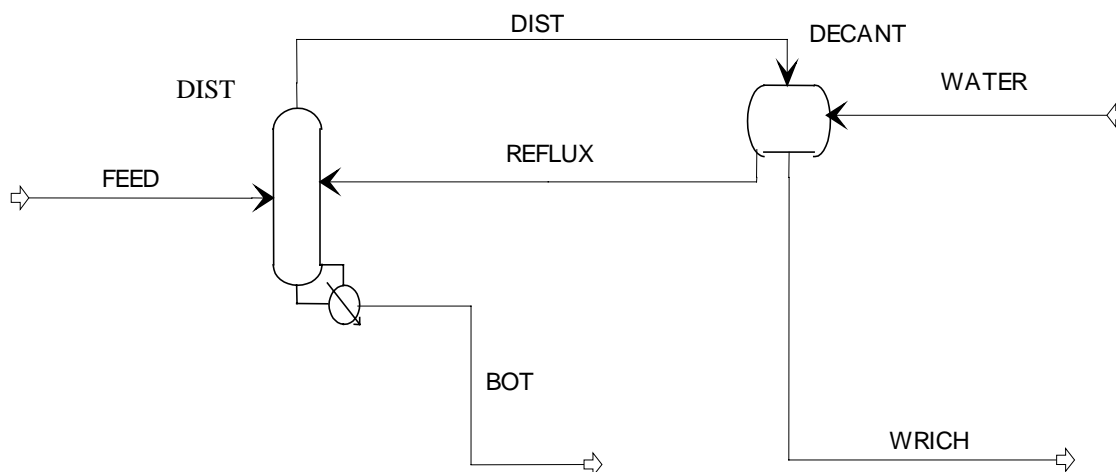


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**Description :** Ethyl acetate (EA)-Water-Ethanol Extractive System

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### Process Flow Diagram



### Process Description

Ethyl acetate (EA), water and ethanol mixture is fed to distillation column. EA-Water-Ethanol heterogeneous azeotrope is removed as distillate. This heterogeneous azeotrope is cooled and washed with water. Ethyl Acetate rich phase is fed to column as reflux and water rich phase is removed as distillate. The ethyl acetate of 99.5% (wt) is removed as bottom product.

Typical feed composition,

Ethyl Acetate	: 85-90 %	(wt)
Water	: 5 – 10%	(wt)
Ethanol	: 5 – 10%	(wt)

### Operating Conditions

Pressure : Distillation column are operating under atmospheric pressure

Column Internals :Structured packing for the column (Type 3.5L)

### Experience

Finepac™ Structures Pvt. Ltd. has supplied separating systems involving azeotropic distillation. EA-Water-Ethanol is typical system involving EA-Water-ethanol ternary heterogeneous azeotrop azeotrope. The design involves prediction of azeotrope of EA-Water-Ethanol and proper residence time in decanter.