

Production of Vinyl Chloride Monomer from Acetylene and HCl reaction

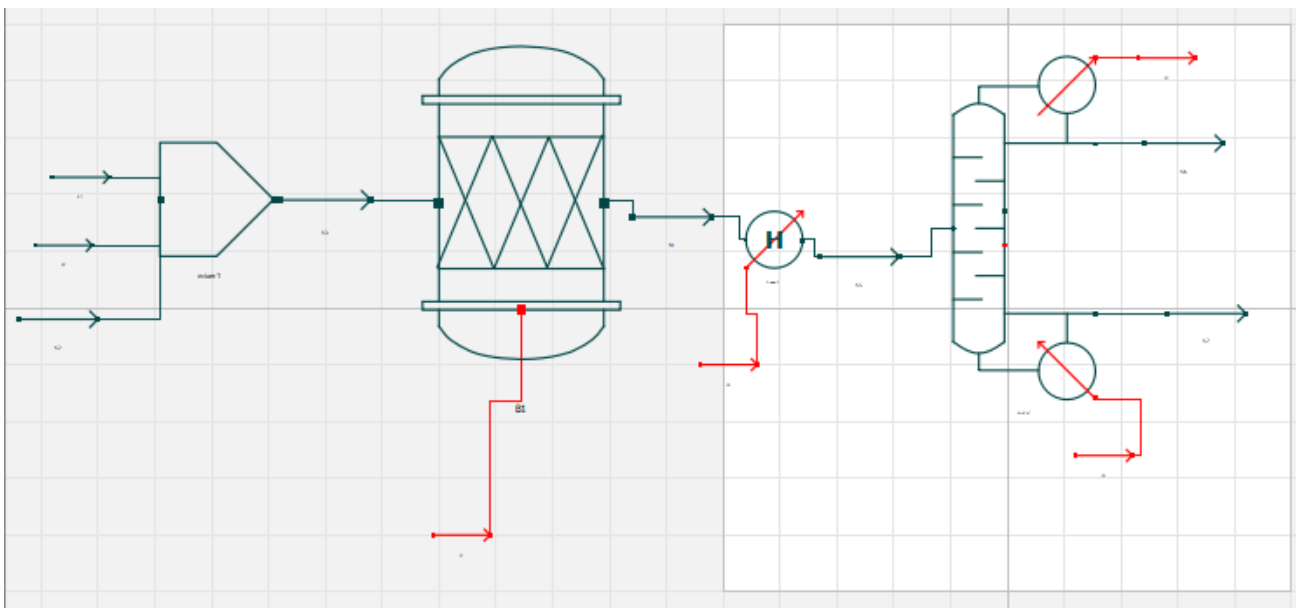
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Background & Description:

This flowsheet attempts the production of Vinyl chloride from the reaction of acetylene and HCl. Vinyl chloride is an important petrochemical product which has been used largely as a refrigerant. The monomer is then used to finally create PVC, which is a very important product in industry. This process uses a conversion reactor and distillation column to produce and separate the substances.

Flowsheet:



Results:

<i>Mole Fraction</i>	Feed 1	Feed 2	Feed 3	Tops	Bottoms
<i>Acetylene</i>	1	0	0.0001	0.0001	0
<i>HCl</i>	0	1	0.994	0.994	0.0001
<i>Vinyl Chloride</i>	0	0	0.0059	0.0059	0.9999