Distillative acetic acid purification and recycling

Characteristics:

- validation of a distillative purification and regeneration process for acetic acid, from an acidic aqueous-organic mixture
- completely corrosion-proof system construction
- rectification with liquid phase separation of the heteroazeotrope of the distillate
- partial sump product volatilisation with separation for the regeneration of purified acetic acid
- largely complete concentration of high boilers and impurities in the column sump, cyclic drainage
- sampling system for the different fractions
- scale-up to production measure including connection to existing receiver and collection tanks
- system control using an in-situ touch panel via SIEMENS S7 controls and Profibus data transfer and evaluation based on the customer’s own central data collection system
- directives
  - CE compliance / machinery directive
  - pressure equipment directive 97/23 EC
  - TA-Luft (German technical instructions on air quality control) certificates for connections and fittings
  - FDA material certificates