



Laboratory SX Plant 12

SX Kinetics designed and manufactured this laboratory solvent extraction pilot plant featuring sealed mixers-settlers with jacketed settlers. The pilot plant was used to simulate the customer's full scale solvent extraction column in their production plant for the extraction of impurities from phosphoric acid.



Project: sxk-79

Client: PCS Phosphate

Location: Aurora, North Carolina, USA

Stages: 18

Capacity: 150 mL/min (org + Aq)

Recycle: Option for organic or aqueous

Items Provided:

- Borosilicate flanged mixer-settlers and flanged covers with Teflon coated O-rings
- Jacketed settlers and organic vessel for operation at elevated temperature
- Aqueous over flow weirs vented to nitrogen inlet and outlet headers
- Variable speed mixer motors with constant torque output and digital rpm display
- High efficiency curved blade SX impellers with Teflon bearing seals on covers
- Support frame with vibration adsorption clamps
- Interchangeable tubing for easy configuration to any circuit design
- Completely assembled and tested prior to shipment
- Installation instructions and operating manual

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