



## 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

### SX Kinetics, Inc.

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