

www.soligz.com

Crystallization, Separation, Purification

www.armstrong-chemtec.com

Heat transfer specialists



NEW LAB SCALE EQUIPMENT FOR SEPARATION AND PURIFICATION OF YOUR PRODUCT Continuous crystallization

The advantages of continuous crystallization

- Improved reproducibility
- Lower energy consumption
- Less operator attention



Small scale Scraped Surface Crystallizer for early stage process development

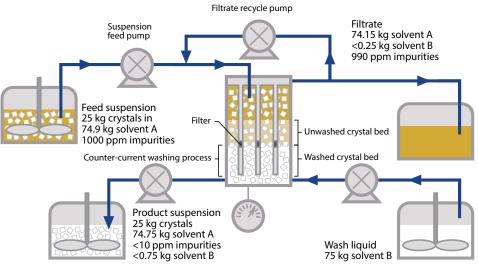
Benefits of Scraped Surface Crystallizer (SSC)

- Large surface to volume ratio enabling high cooling capacity with improved control.
- Multiple coolant jackets to create dedicated cooling profiles.
- Rotating scraper blades to prevent deposits of solids on the wall, and improve heat transfer and mixing.
- The SSC was used successfully for cooling crystallization of an API from a solvent, currently design of full scale unit is being made.

What we can offer

- Rental of small Scraped Surface Crystallizer.
- End of 2022, skid-mounted, turnkey unit with 2 small Scraped Surface Crystallizers available for rental or tests at SoliQz premises.

SOLVENT SWITCH HYDRAULIC WASH COLUMN From pure crystals to a pure product





Schematic flow diagram for a process with a Solvent Switch Hydraulic Wash Column and photo of pilot plant with 15 cm diameter solvent switch HWC during the washing of carnalite (KMgCl $_3$ -6 H $_2$ O)

Benefits of the Solvent Switch Hydraulic Wash Column

- Extremely high washing efficiency at a very low wash liquid consumption (see example above for eutectic impurities).
- Concept that is proven on pilot scale
- End product in different forms: clean suspension, solution or wet/dry crystals (with additional equipment).
- Innovative way of transferring crystals from one solvent into another in multi-stage processes and/or improve product purity after final crystallization step.

What we can offer

- Process development support to individual clients.
- Partnership in a multi-client project for testing Solvent Switch HWC.