

## Liquid Crystallizer

Solids Dewatering & Zero Liquid Discharge



### Evaporate waste disposal cost & work towards ZLD

Achieve true ZLD operations with a **KONTEK CONREC** Liquid Crystallizer.

Our system quickly reduces moisture content, leaving behind crystallized salts for disposal. This process is perfect for low-volume, corrosive liquid solutions.

Our trustworthy **CONREC** design has been used in the industry for over 25 years.

The durable **CONREC** Liquid Crystallizer requires minimal operator attention and protects its long lifespan by avoiding jamming and corrosion.

Rely on your self-cleaning Liquid Crystallizer to consistently produce uniform, free-flowing crystallized waste.

The **CONREC** Liquid Crystallizer reduces liquid content by 90%, leaving only the dissolved salts as dry powders to significantly lower disposal costs.

CERTIFIED  
ISO 9001



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## CONREC Liquid Crystallizer

A simplified design for liquid waste evaporation

Equipped with a convenient cycle time and temperature controls, your Liquid Crystallizer can easily adapt to new industrial conditions and waste volumes.

The process is guaranteed to be vapour-free, dust-free and odourless with its tight sealing and suction exhausts. Continuous mixing ensures that heat is evenly conducted throughout the container.

Self-cleaning blades minimize operator intervention and reduces labour costs.

To prevent solids buildup on the pan surface your Liquid Crystallizer's close-fitting interior blades continuously agitate the solution. The constant stirring motion prevents waste from settling and maintains operational efficiency, cleanliness and consistency

## CONREC Zero Liquid Discharge System



The **CONREC** Liquid Crystallizer's compact and energy-efficient design lowers your operating costs.

Its pre-heated air circulation pattern and convection heating guarantees uniform crystal consistency.

With its straightforward design, automatic fill and emptying, cleaning and accessible doorways, your Liquid Crystallizer is easy to operate and maintain.

A **CONREC** Liquid Crystallizer quickly transforms dumps of liquid slurry waste into grams of free-flowing crystals



## Technical Specifications

- Corrosion-resistant materials
- Multiple heat zones and even conduction ensure temperature consistency
- Continuous mixers prevent buildup and clean the inner housing surfaces
- Efficient steam, electric, hot water or indirect gas heated thermal fluid available
- Suction exhausts maintain negative interior pressure
- Durable, large bearings maintain positive pressure and air-purged seals
- Rigid pipe fill connection, sprocket and chain drive, and reliable TEFC gear motor
- Convenient temperature and timer controls and discharge doors
- Pre-heated airflow circulation pattern
- Adaptable to fit continuous or batch processes

## Applications

- Precious metal recovery
- Fracking leachate processing
- Waste landfill leachate
- Mine site tailing pond treatment
- Steam-assisted gravity drainage on oil sands
- Membrane & clarifier concentrate evaporation
- Concentrated plating bath maintenance
- Water-based grinding coolant processing
- Metal-bearing wash waters
- ROKON & REKON brine concentrate

