

## > Liquid Crystallizer



Watch your liquid waste disposal costs evaporate while working towards becoming a ZLD operation

## The Final Step In Zero Liquid Discharge - 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.

**An ISO 9001 Company**  
**Established 1980**

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### 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 ZLD 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.

## Features and Benefits

- 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

## The Complete System

- 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



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