



By courtesy of United Swiss Saltworks on Rhine Co. Ltd.

# Re-Crystallisation of Raw Salt to High Quality NaCl

## Highlights

Re-crystallising rock salt or solar salt is a very energy efficient means of producing high quality vacuum salt characterised by:

### 1. Minimal Steam Consumption

- Raw salt dissolved at high temperature → Evaporation load reduced
- Thermo compression (ejectors) → Less live steam required
- Number of stages

### 2. High Product Purity

- Low grade raw salt → Is converted to high quality product
- Fluctuations in raw salt composition → Have minimum impact upon product quality
- No brine purification required → Lower operating costs

### 3. Low Scaling

- Direct contact preheaters → No heat transfer surfaces
- Flash / cooling evaporators

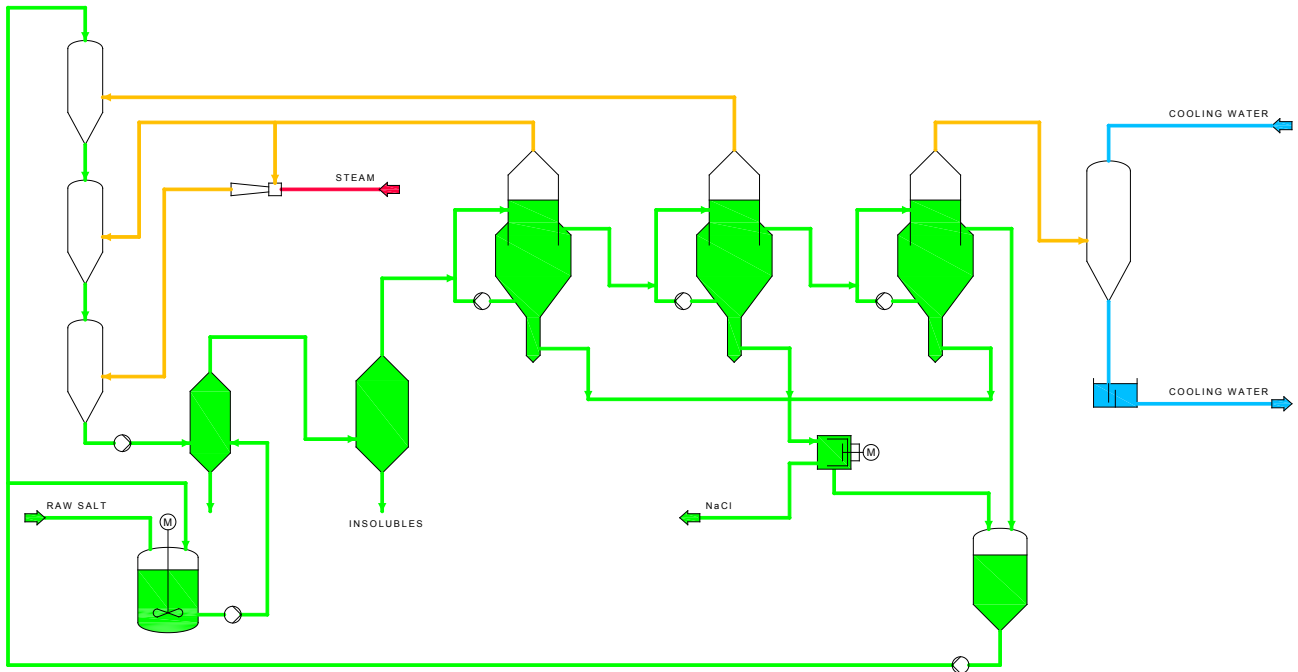


Pusher-type Centrifuge



Circulation Pump

## Typical Flow Diagram



## Plant Characteristics

- Production capacities up to 250'000 tons / year
- Advanced concepts to minimise operating costs
- Plants can be designed for a wide range of raw salt compositions
- No thickener needed – centrifuge fed directly from salt leg