



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

#### 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

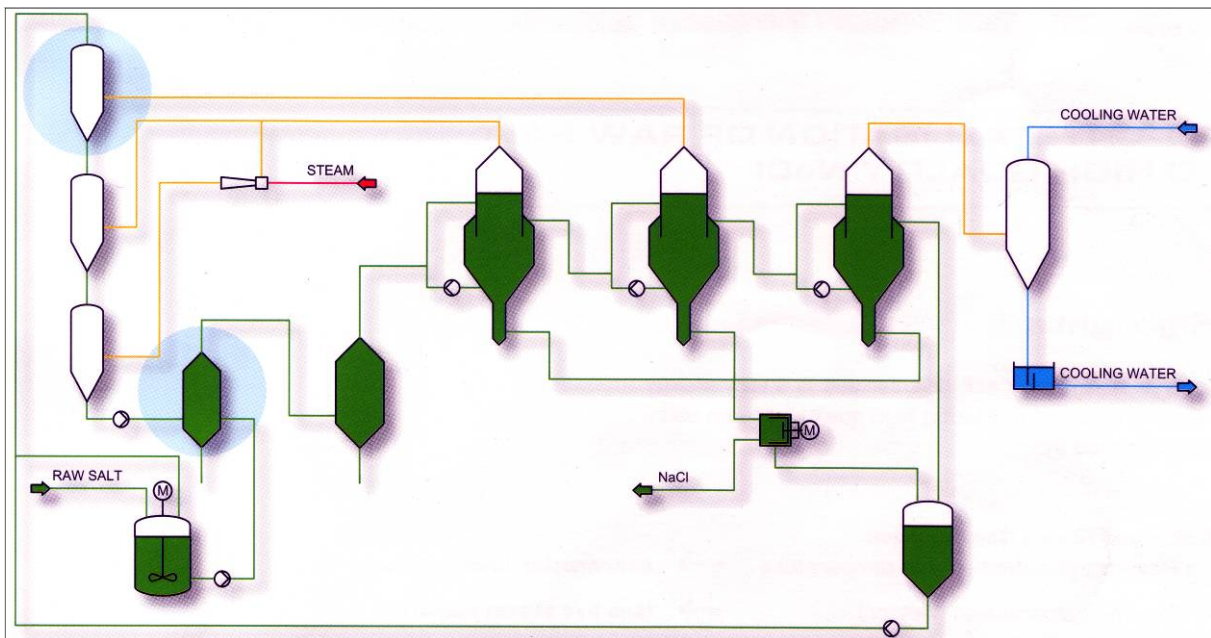
- Direct contact preheaters
  - Flash / cooling evaporators
- No tubular heat transfer surfaces



**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



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