

# Combined production of NaCl and CaCl<sub>2</sub>

## Highlights

Recovery of high purity NaCl and CaCl<sub>2</sub> from waste water discharged from the soda industry to produce:

- NaCl > 99 %
- CaCl<sub>2</sub> flakes (78–80 %) or granules (95–98 %).

## Feedstocks

Soda waste waters – all concentrations

## Process Characteristics

1. Selective crystallization of NaCl utilizing MVR or multiple effect
2. Utilization of gypsum slurry process to minimise scaling
3. High purity CaCl<sub>2</sub> product with low NaCl concentration
4. High CaCl<sub>2</sub> concentrations achieved by evaporation minimises energy consumption for calcining or granulating
5. Drum flaker and calciner for flakes
6. Fluid bed granulator for granules

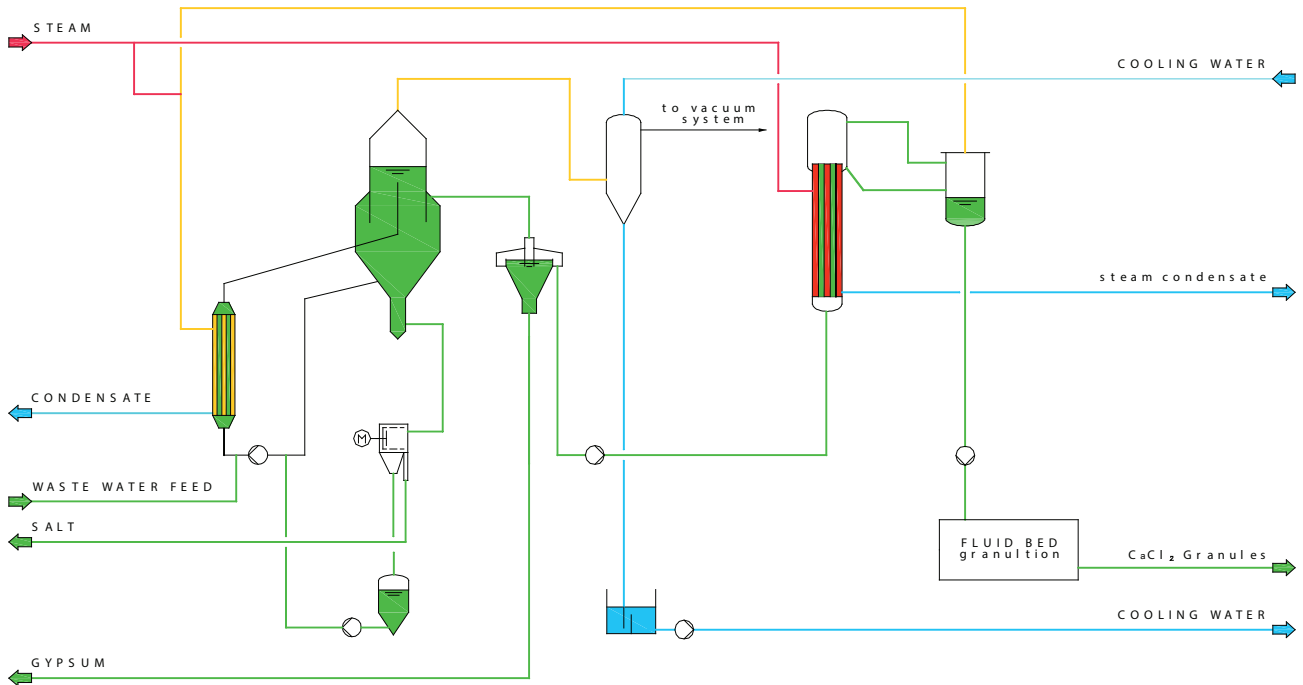


Dry NaCl on Ship



CaCl<sub>2</sub> Circulation Line

## Typical Flow Diagram



## Plant Characteristics

- Wide range of feed compositions
- MVR or multiple effect depending on utility costs
- Exact product concentration
- Variable product configurations
- High steam economy
- Low fuel consumption