

Applied Systems pneumatically filled bulk salt brinemakers are designed to meet modern industry needs for automatic storage and saturation of brine. They are applicable for use with a wide range of industrial salts including evaporated, rock/solar salt and are available in 20, 40 and 80 ton sizes which enable delivery of 10 to 25 ton loads.

Systems can be custom engineered dependent on water quality, flow and pressure.

Contact Applied Systems for system selection, sizing or technical questions.



OPERATIONAL PROCESS

Use of a brinemaker will automatically provide a continuous supply of saturated brine for process use. Fresh water is automatically introduced to the salt (sodium chloride) uniformly and saturates and dissolves the salt. Saturation is usually considered complete when 2.6 pounds of salt is dissolved per gallon of water.

Saturated brine is collected through the lower PVC brine collector which is installed directly within the lower

portion of the silo. This collector is covered with graded gravel to prevent small undissolved salt granules from entering the process piping. The saturated brine can be pumped from the silo by the use of electrically driven pumps while vacuum water operated educators can also be utilized to vacuum the saturated brine from the silo and at the same time provide controlled concentration.

MATERIAL CONSTRUCTION

Fiberglass reinforced plastic (FRP)

USABLE SALT

- Granulated
- Rock/solar salt

FEATURES

- Skid mounted system
- Sample cocks for water testing
- Viewports to verify operation levels
- Removable plate pack
- Pneumatic salt fill pipe
- Stainless steel salt fill line
- Liquid level controls
- Makeup water distribution spray
- Salt dust collection
- Brine collection system
- Access ladder
- External polyurethane paint

OPTIONS

- Seismic and wind loads
- High pressure
- Corrosion allowance
- PLC controls
- Transfer pumps
- Volume measuring meters
- Flow meters