



# Underground Basics of Operation

In the most basic terms, briners function to convert salt and water into saturated brine on a continuous basis. The three elements necessary to produce saturated brine are salt, water, and sufficient time for conversion. This is true regardless of briner configuration or the intended use of the brine.

## OPERATION – STANDARD FEATURES

1. Salt is pneumatically loaded into the briner at 700 scfm @ 6 psi to 800 scfm @ 400 psi through the 4" SS riser with quick-connect
2. The salt is evenly distributed within the briner via our patented SS manifold system
3. Proper venting is critical to the safe operation of your briner
4. Brine is collected via the shell length plenum outlet piping
  - \*There is a check valve in the outlet riser piping to prevent the piping from draining
5. The 8" vent must breathe freely during each salt loading – follow instructions
6. Water is evenly distributed within the briner via our patented SS manifold
7. The top manway provides for access to the vessel and is provided with a riser to grade
8. All connections are housed in two 42" enclosures which provide access from grade to the top of the briner

## OPERATION – OPTIONS

1. The *water level control system* includes a level sensor, controller, NEMA 4X housing, and water inlet valve
2. The *salt level indication system* utilizes a brine concentration monitor to indicate a low salt level
  - \*When brine concentration drops, it is time to order salt
3. The *dust bag housing* protects the dust bag from the elements
4. The *internal ladder* provides access to the briner interior
5. The *anchorage system* prevents briner flotation
6. The *gravel bed* serves as a filtration zone as recommended by Morton Salt for most types of salt
7. An *NSF 61 / ANSI label* is available when a requirement of the specifications
8. *Traffic covers* are used in traffic areas to protect the fitting enclosures and manway riser