

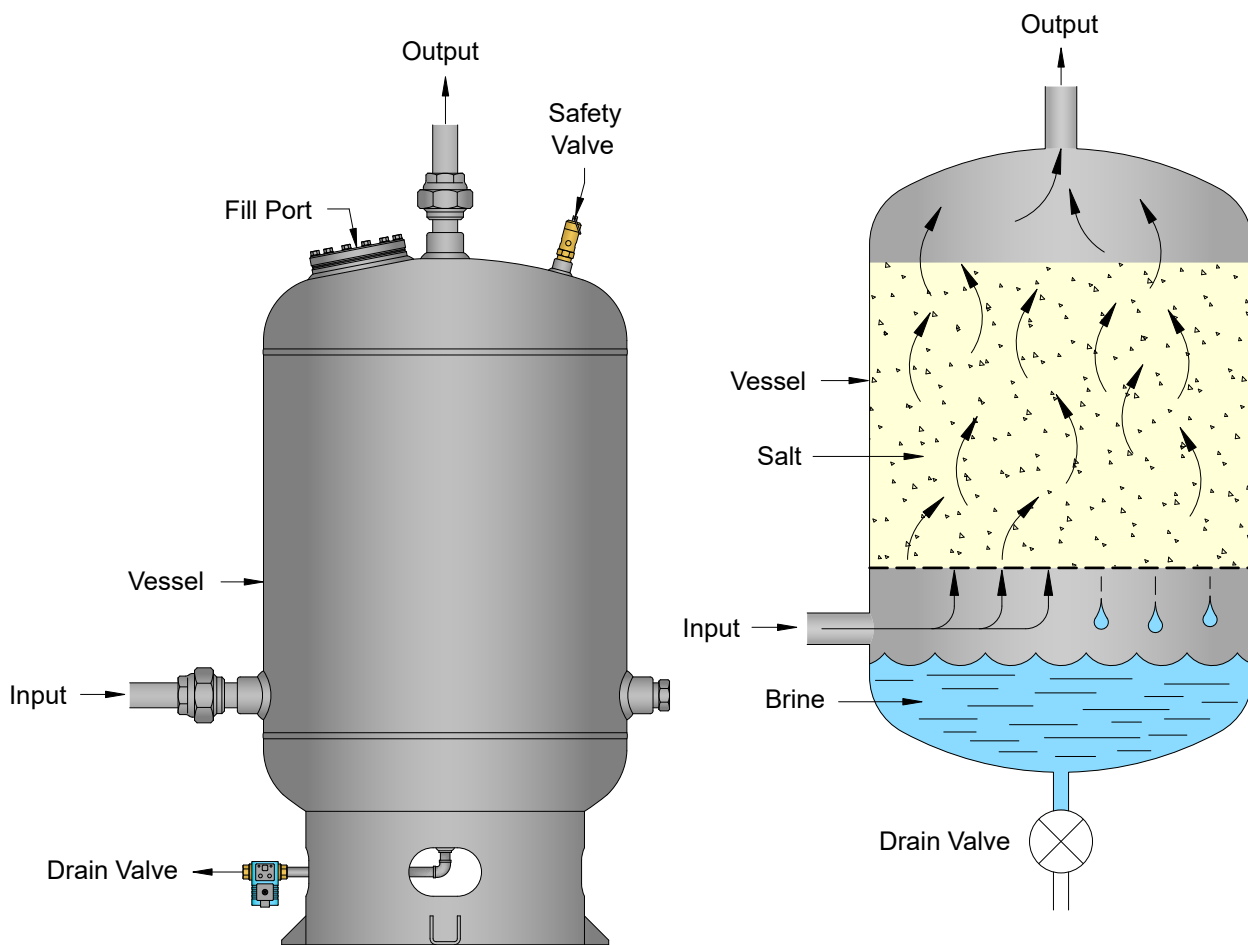
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Deliquescent Dryers

by Brian S. Elliott

Deliquescent dryers are a type of speciality dryer that take advantage of the affinity that salt has for water. When water vapor comes in contact with a salt crystal, it attaches and the salt dissolves. As the salt dissolves, a brine solution is generated which flows down into a reservoir formed by the bottom of the vessel. While deliquescent dryers are not as effective as most other dryer technologies, they do have several advantages. They are very simple devices, have no moving parts and require very little maintenance. These attributes make them desirable for field operations, most notably, sand blasting and equipment painting.



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