

# O.T.S SALT DISPENSING





**AREL O.T.S –On Time Salt Dispensing** systems offers practical and simple solutions for automatic dispensing of **Common Salt** and for **Glauber Salt**

## Common Salt

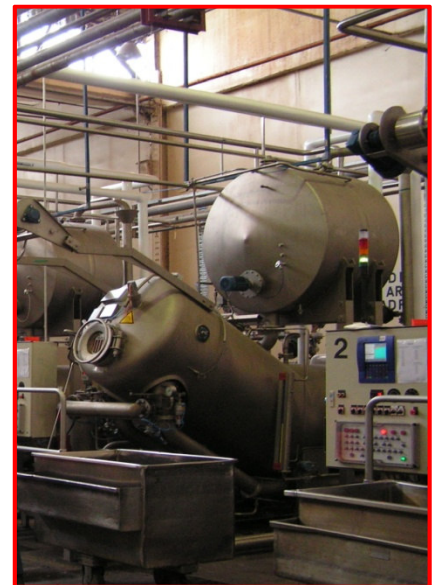
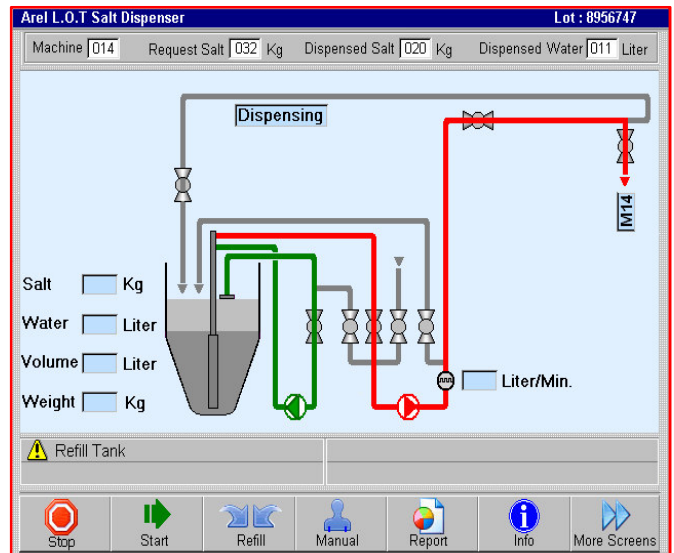
The dispensing of common salt is based on the new innovative technology, which combines storage and mixing of the salt in the same tank, and accurate weighing of the salt while transferring the slurry to the machines; Eliminating the complexity and cost associated with storage in dry silo, conveyor mechanism and extra mixing and weighing tank. The dispensing is done continuously fast and not in small intermediate batches

## Operation

The salt is loaded to the storage/mixing tank by crane from big sacks or from ordinary sacks. Upon each call for salt from the dyeing machine controller the requested salt amount is delivered to the side tank of the machine. Mixing of salt and brine is done in the tank during the transfer to the machine. The mixing is performed at the suction point of the transfer pump. Sophisticated (but simple) circulation cares for desired salt/water ratio. Rinsing of the lines with fresh water after each cycle is not required saving water and time. At the end of delivery of each salt portion to the side tank of the machine the machine controller is instructed to transfer the salt/water mixture from the side tank to the machine. In case that the side tank is too small to allow for large requested amount of salt, the controller automatically divide the total requested quantity into smaller batches .

## Specifications

Effective salt quantity in storage tank: 3 tons  
Typical salt mixture concentration: 100Kg Salt / 60 liter water.  
Transport- Up to 75 meters distance + 5 meter lift  
Typical salt powder feed rate – 25Kg/min.



## O.T.S Building Blocks

**Tank-** S.S. storage tank for the salt and for the salt/water mixing device.

*The salt tank can be provided locally by the customer according to Arel specifications*

**Mixing device-**Including pump, scattering plates ,pipes ,valves and sensors

Material: Stainless Steel and PVC.

**Transfer pump-**Adequate pump for transferring the salt/water mixture from the storage tank to the machines.

**Flow meter-**Micro motion Coriolis mass flow meter with straight pipe to allow free flow of the salt granules

**Manifold-** PVC manifold housing valves ,pumps ,regulation devices and the flow meter

**Destination valves-**Diaphragm type ;Material PVC-C.

**Control-** Industrial grade touch screen PC based controller and TFT color display including control panel with the pneumatic and electrical gear

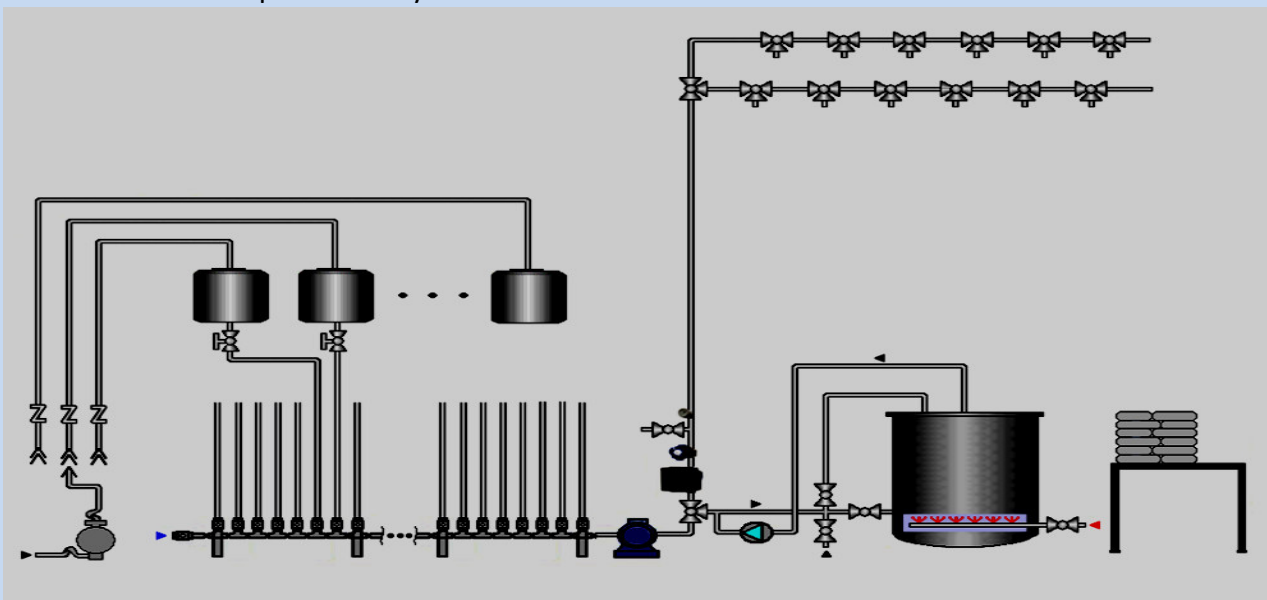


## GLAUBER SALT

Arel offers for the dispensing of Glauber salt two stage system:

1. Creation and maintaining of saturated solution of the salt at controlled temperature
2. Dispensing the solution to the machine by the same dispenser and technology which is used to dispense the other liquid chemicals

The result is simple and very cost effective solution





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## Integrated solutions



### Controllers and control center



### Liquid and Salt Dispensing



Current Weighing				Balance 1 - 1000g Tare		Current Tolerance 2.000g																																																																									
Machine	10	Lot #14980725	Weight	250	Kg		Total																																																																								
Quality	Ctrl. 50	7632825	Proc	Binoksa	5949		<b>5200.00</b>																																																																								
Shade	Magenta		2012FDE1				Gap from Target																																																																								
Prod. No.	Prod. Name	Quality	Unit	Tank			<b>4704.00</b>																																																																								
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### Weighing and Dissolving

[www.arel.com](http://www.arel.com)

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