

Continuous, labor-free salt brine delivery system

The Dilemma

Consistent brine supply to the day-tanks of water treatment systems is a labor intensive, dangerous, and time consuming task, complicated by the continual monitoring necessary to provide consistent brine. The traditional method for maintaining this process is to dump bagged salt on a daily or weekly basis into the day-tanks of these systems, which puts employees at risk of injury, harms the environment and is inefficient.

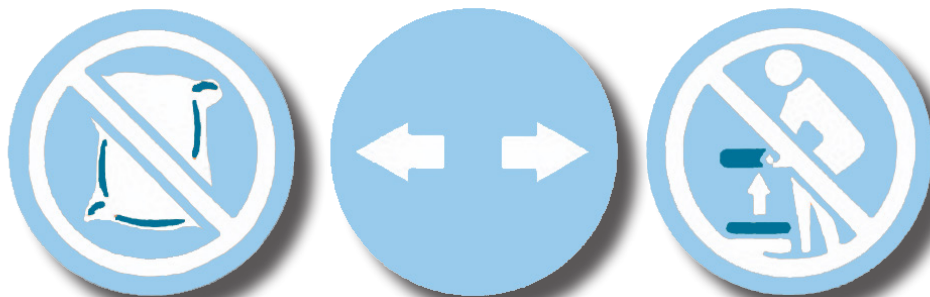
The Solution



The AUTOBrine® provides a best in class solution to this painstaking task and offers a simple way to manage salt brine levels to extend the life of your equipment. The Cope Company Salt (TCCS) offers a turnkey solution that eliminates risk, reduces cost and carbon footprint. AUTOBrine® has one of the shortest ROI's for facility management equipment and service vendors.

How It's Done

TCCS handles the complete installation and service of the system. Once the system is in operation, salt levels are remotely monitored and deliveries are made automatically so the system has a constant supply of salt. Loose salt crystals are delivered by truck into the below ground brine maker using our patented scale system. The salt mixes with fresh water and the fully saturated brine is stored in the tank. When needed, the salt brine is automatically pumped into the day tank, providing fully saturated salt brine for a consistent supply to the water treatment system. If an above ground tank is being utilized, fully saturated brine is delivered via tanker truck.



AUTOBrine® System Size Specifications

Specification Description	CCS1700	CCS3000	CCS6000	CCS8000	CCSL6250
Components	AUTOBrine® Systems Covered by U.S. Patent #7,196,276 and 7,803,335				
Tank Size (gallons) (DWT~1% less)	1700	3000	6000	8000	6250
Tank Dimensions (OD for SWT & DWT)	11' 1"L x 4' 7"W x 6' 7"H	16' 4 1/4"L x 6' diameter	20' 6 1/4"L x 8' diameter	26' 1/2"L x 8' diameter	15' 8"H x 8' 6" diameter
DWT Available	No	Yes	Yes	Yes	Custom
Tank Material	Polyethylene	FRP	FRP	FRP	Polyethylene
Tank Placement	Below Ground	Below Ground	Below Ground	Below Ground	Above Ground
Salt Fill Port/ Mechanical Stillwell	2-26" Locking Manhole	2-26" Locking Manhole	2-26" Locking Manhole	2-26" Locking Manhole	2" Cam-Lock (Liquid Fill)
Salt Capacity	12,000 lbs.	20,000 lbs.	40,000 lbs.	50,000 lbs.	6,250 Gal Liquid Brine
Brine Storage Capacity	247 Gallons	435 Gallons	870 Gallons	1,160 Gallons	6,250 Gallons
Brine Production (@ 55° F gal/hr)	142 gal/ 15.5 min	284 gal/ 15.5 min	426 gal/ 15.5 min	658 gal/ 15.5 min	Tank volume on demand
Pump Motor Voltage Req.	230V Single Phase	230V Single Phase	230V Single Phase	230V Single Phase	230V Single Phase
Control Panel & Signal Switch V	110V	110V	110V	110V	110V
Freshwater Supply Line - Below Ground	1" 200 lb. test well pipe	1" 200 lb. test well pipe	1" 200 lb. test well pipe	1" 200 lb. test well pipe	NA (Pre-mixed)
Brine Supply Line-Below Ground	1" 200 lb. PVC pipe	1" 200 lb. PVC pipe	1" 200 lb. PVC pipe	1" 200 lb. PVC pipe	1" 200 lb. PVC pipe
Physical Placement					
Service Sleeve	6" PVC Sleeve	6" PVC Sleeve	6" PVC Sleeve	6" PVC Sleeve	6" PVC Sleeve (as needed)
Excavation Dimensions	9 1/2'D x 6'W x 12'L	11'D x 8'W x 20'L	13'D x 10'W x 24'L	13'D x 10'W x 30'L	NA
Concrete Top	Class H-20 Bridge Cap (load capacity 20K lbs./ sq.ft.) 12" thick 5000 PSI fiber reinforced concrete	Class H-20 Bridge Cap (load capacity 20K lbs./ sq.ft.) 12" thick 5000 PSI fiber reinforced concrete	Class H-20 Bridge Cap (load capacity 20K lbs./ sq.ft.) 12" thick 5000 PSI fiber reinforced concrete	Class H-20 Bridge Cap (load capacity 20K lbs./ sq.ft.) 12" thick 5000 PSI fiber reinforced concrete	Foundation slab 12' x 12' x 12" 5000 PSI fiber reinforced concrete
Macadam	As Required	As Required	As Required	As Required	NA
Salt Specification	Coarse Solar or Rock	Coarse Solar or Rock	Coarse Solar or Rock	Coarse Solar or Rock	Liquid Brine

* Custom size systems also available

