



ACCUBRINE®
automated brine maker



**KEEP ROADS SAFER BY STAYING
AHEAD OF THE STORM.**



Cargill®

Protect lives and enhance commerce by providing sustainable road safety solutions.

THE NEXT GENERATION OF BRINE MAKERS IS HERE.

Brine, whether used to wet salt or as an anti-icer, is a highly effective and surprisingly economical solution for combating snow and ice issues on roadways. Now, Cargill Road Safety introduces the next generation of brine production that is more efficient and cost-effective than ever before with the AccuBrine® automated brine maker. All the benefits of brine use — with none of the typical production and supply headaches.

- **Consistently achieve ideal brine concentration**
- **Modular add-on system allows operator to create “customized blends” using brine and liquid additives**

A CAPITAL INVESTMENT WITH A PAYBACK.

The best investments are those that pay for themselves. The AccuBrine® automated brine maker does exactly that. Municipalities and DOTs have found that costs are quickly recouped through reduced operational costs. What's more, the AccuBrine® automated brine maker is built to endure. Its low maintenance fiberglass construction is both reliable and durable.

AccuBrine® automated brine maker features:

- **Programmable Logic Controller:** The PLC initiates the production process while a patented sensing system monitors salinity levels.
- **Accurate Data Tracking:** The PLC tracks daily and seasonal data including production volume, water, salt and additives usage.
- **Modular system:** Add Truck filling and additive blending system easily and economically.

System Includes:

- Improved brine production efficiency:
 - » Addition of proportional control valve
 - » More accurate concentration sensor that is easier to calibrate
- Salt tank
- Control panel
- Improved HMI design and layout with intuitive navigation
- All new Remote Access:
 - » Allows customer to remotely monitor and operate via Apple® or Android™ mobile device or desktop
 - » Enables remote troubleshooting technical support for quicker uptime
- Air Purge: Automatically purges fresh water supply lines to salt mixing tank to avoid freezing
- Available in single or three phase motor options
- **Pump Upgrade** - Includes more powerful pump than prior versions:
 - » 200 GPM - 6,000 GPH
 - » Stainless steel cast
 - » Stainless impeller
- Compact Physical Footprint:
 - » Salt tank: 65.5”H x 125.5”W x 62.25”D
 - » Control panel: L=53” W= 27” H= 75”



SIMPLE IMPROVEMENTS FOR GREATER BENEFITS.

By making some exciting new upgrades from the original AccuBrine® automated brine maker model, users can expect a more user-friendly system with improved accuracy and efficiency. These features include:

- Redesigned operator interface screen layout and new PLC program provides a cleaner screen navigation that is easier to use
- Updated electrical components to replace outdated/obsolete electrical hardware and software with state of the art components
- Remote access that improves service and troubleshooting capabilities while reducing amount of time consuming on-site service calls
- Dilute valve replacement with proportional control valve for enhanced brine making efficiency
- Conductivity controller and sensor for improved accuracy and ease of calibration



A SYSTEM THAT EXPANDS TO MEET YOUR NEEDS.



With the AccuBrine® Blend v2 system, you can create custom liquid blends of your choosing at the touch of a button. This modular system enables you to produce any custom blend by mixing your brine with various other liquid additives to enhance performance and lower the effective melting temperature. This is the best way to achieve the custom blends you desire efficiently and accurately.

No Blended Storage required – this system eliminates the need to store blended product in storage tanks as a custom blend can be made in real time as it is being sent directly to a liquid application truck.

Upgrade any brinemaker – add to any existing brinemaker setup, as this Truck Loading & Blending System operates independently of the brinemaker.

Protective Shroud – internal components mounted to a coated aluminum frame & stainless-steel shroud with internal heater. Designed to protect components from outside elements.

Stainless Steel Pump standard – Stainless Steel cast and wetted parts. Rated either 100 or 200 gallons per minute discharge (model dependent).

Accurate volumes – product dispensed will be measured via a corrosion resistant, in-line Flow Meter. Product is delivered to the truck in a stacked method i.e. Product A, then Product, B, then Product C.

Level Sensors – storage tank volume sensors provided to determine if enough volume of each product is available to produce desired blend.

Product Recirculation – ability to schedule for automatic recirculation of tanks during off-hours to help eliminate stratifications and solids settling out of solutions. Requires storage tanks to be plumbed according to recommendation.





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