

# BT600

## Brine Making System

The **BT600™** is a semi-automatic brine production system for converting standard road salt into a brine solution for pre-wetting and anti-icing applications.

**Research has proven the use of liquid ice control materials results in significant reductions of overall chemical usage thereby lowering winter maintenance costs and most importantly, reducing the adverse environmental impact associated with the use of road salt and other granular abrasives.**



### System Features

- Overall dimensions: ~12'6" x 5' x 5'2"
- Heavy duty 304 stainless steel tank construction will last for years.
  - Optional 316 stainless steel construction is available.
  - ~750 Gallon dissolution tank.
  - ~700 Gallon brine tank.
  - Custom sizes available
- Up to 5000 USGPH (must have adequate water supply)
- 2" corrosion resistant centrifugal pumping system.
- Single phase electric motor (110 or 220V).
- Simple operation – just add salt and turn it on!
- Ability to circulate between brine and dissolution tank.
- Automatic shut-off. Uses level sensors to detect upper and lower brine levels.
- Turn-key system.
- Delivery and installation available.
- On-site training available
- Optional 12' hopper extension available
- Optional removable covers available
- **Automated controls available.**



NOTE: Pictures depict BT600A – Rigged with automatic controls.  
Specifications subject to change for the improvement of the product.



**M. S. Foster & Associates, Inc.**

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# BT600A

## Auto Brine Making Plant

The **BT600A™** is an automatic brine production system for converting standard granular road salt into a brine solution for pre-wetting and anti-icing operations.

**Tank**

- Constructed 304 STAINLESS STEEL
- Capacity ~2 x 650 Imperial Gallons (~780 US Gallons)

**Electronic Components**

- Electronic Controller
- Inline salinity monitor ±0.2% accuracy
- Over flow sensor in the brine mix tank.
- "Cycle Start" Control - for automatic production
- "Cycle Stop" Control - will shut system down after completing existing cycle
- Emergency Stop Button
- Auto/manual select switch
- Manual override controls
- All electrical components housed in a sealed control box with sealed switches – NEMA 4X

**Description of Automatic Brine Making System**

When the cycle starts, the dissolution tank containing the granular salt will fill with water and begin to fill the spillway with "rich" brine. The salinity sensor located in the spillway chamber will send a signal back to the PLC which will then open/close the fresh-water proportioning valve accordingly. This will dilute the "rich" brine down to your desired, preset salinity level. The finished brine travels through the spillway into the finished brine side of the tank. The cycle will continue until the finished brine reaches the high level sensor on the BT600AB, or if you have chosen model BT600AC, BT600ARPLC, or BT600ARPLC-Data, the pump will start when the brine side has reached the high level sensor and transfer the finished brine to your storage tank(s) which is fitted with a high level sensor. The system will not run if the storage tank is full. All systems can also be run manually, if and when required. All models include self diagnostics.



**BT600A MODEL OPTIONS – Specify Model Number when ordering or requesting quote.**

Model Number	Features
BT600AB	Includes automatic salinity controlled by machine as pre-set by operator. System will automatically shut down if brine is too lean or when finished brine side of tank is full.
BT600AC	Includes all BT600AB features, plus automatic finished brine pump-out to storage controlled by machine – level sensor is installed in customer supplied storage tank.
BT600ARPLC	Includes all BT600AC features, plus automatic re-circulation of lean brine. System is also capable of accepting up to 2 additional optional inputs (e.g. to control automatic salt feed conveying system).
BT600ARPLC-Data	Includes all BT600ARPLC features, plus Data Logging and Downloading (export to MS Excel Spreadsheet - customizable) Date/time Stamped, water/salt usage, brine produced , Ethernet Connectivity or Memory Card/Stick. Optional Touch Screen available.

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