

Automatic Salinity Control System

The North Star Automatic Salinity Control System (ASCS) can improve ice quality, and save time and money by precisely regulating the salinity of the water used in the ice making process. It has long been recognized that the addition of a very small amount of salt to the make-up water (100 to 400 ppm) enhances ice maker performance and increases yields while maintaining potable water quality. The North Star system is designed to accurately measure and maintain optimal salinity levels. It also eliminates the guesswork and constant monitoring of salinity necessary with non-metered systems.

Feature	Benefit
<i>Automated system</i>	<ul style="list-style-type: none"> • Less labor in monitoring salt levels and refilling salt tank • No need for make-shift systems with uncontrolled salt usage • Eliminates guesswork; just set your preferred salinity level and the system does the rest
<i>Precise control of make-up water salinity</i>	<ul style="list-style-type: none"> • Better ice maker performance • Superior ice quality – larger flakes and less fines • Improved removal of ice from freezing surface for improved ice yield • Eliminates chattering and the damage it causes to ice maker components • Less corrosion due to unnecessarily high salinity levels • Lower maintenance costs • Ability to control salt content in the finished product
<i>Uses 1/2 to 2/3 less salt than makeshift systems</i>	<ul style="list-style-type: none"> • Lower salt costs • Less labor spent moving and handling bulk salt
<i>Simple, turn-key accessory</i>	<ul style="list-style-type: none"> • Easy to install and operate • Simple to add to an existing installation • Packaged as a single unit
<i>Cost-effective</i>	<ul style="list-style-type: none"> • Pays for itself in just a few years • Extends the life of your ice maker

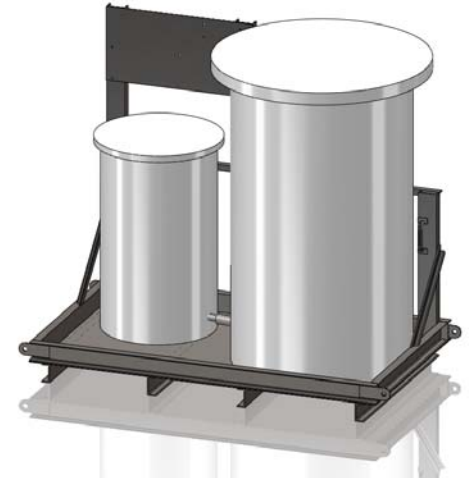


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System Components

The North Star Automatic Salinity Control System is simple to install and operate. Just make three simple connections, fill the salt tank, plug it in, and the system is ready to regulate the salinity of your ice maker make-up water for superior ice production.

Saturated Salt Feeder Tank	Tank for salt and brine make-up
Float Tank	Regulates water level in both tanks
Peristaltic Feed Pump	Delivers brine to the ice maker water tank
Salinity Sensor	Monitors salinity in water line to top of ice maker
Controller	Monitors the sensor and activates the feed pump to ensure consistent salinity levels in the water LED display indicating salinity level Adjustable set point Low salinity indicator light
Pressure Switch	Monitors when system operates
Stainless Steel Stand	Packaged as a self-contained system Easily movable as a unit



Specifications

Unit	Model ASCS-30 <i>for M5 through M20 flake ice makers</i>	Model ASCS-100 <i>for M40 through M90 flake ice makers</i>
Capacity		
Tank	30 gallons (114 L)	100 gallons (379 L)
Dry Salt Capacity	300 lbs (136 kg)	1000 lbs (454 kg)
Power		
Input	110-120 VAC	110-120 VAC
Output Relay	110-120 VAC @ 8Amps	110-120 VAC @ 8Amps
Approximate Dimensions		
Length	52" (1321mm)	62 inches (1575 mm)
Width	24" (610 mm)	34 inches (864 mm)
Height	56" (1422 mm)	53 inches (1346 mm)

North Star

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