

Automatic Salinity Control System

The North Star Automatic Salinity Control System (ASCS) can improve ice quality, and save time and money by accurately 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 flake ice maker production and performance, and promotes smooth machine operation. 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>Accurate 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 quality • Eliminates chattering and vibration which can cause damage to ice maker components • Lower maintenance costs • Less corrosion due to unnecessarily high salinity levels • Ability to control salt content in the process mix or finished products
<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 or new installation • Can be installed in a remote location • 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 (ASCS) is simple to install and operate. It can be added to an existing ice maker or installed with a new ice maker. Just make three 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	<ul style="list-style-type: none"> Tank for salt and brine make-up
Float Tank	<ul style="list-style-type: none"> Regulates water level in both tanks
Peristaltic Feed Pump	<ul style="list-style-type: none"> Delivers brine to the ice maker water tank
Salinity Sensor	<ul style="list-style-type: none"> Monitors salinity in ice maker water tank Standard 3 meter (10 foot) sensor cable included. Longer lengths available as special order for remote installations
Controller	<ul style="list-style-type: none"> Monitors the sensor and activates the feed pump to ensure consistent salinity levels in the make-up water LED display indicating salinity level Adjustable set point Low salinity indicator light The addition of controllers, probes, peristaltic pumps and bracket extension allows customer to monitor a maximum of three ice maker water tanks with one ASCS
Available with Aluminum or Stainless Steel Stand	<ul style="list-style-type: none"> Packaged as a self-contained system Easily movable as a unit



Specifications: Sample ASCS-30-1 / 30 = Gallons / 1 = Ice Maker(s) Controlled

Model	ASCS-30-1	ASCS-30-2	ASCS-30-3
Capacity			
Tank:	30 gallons (114 L)	30 gallons (114 L)	30 gallons (114 L)
Dry Salt Capacity:	300 lbs (136 kg)	300 lbs (136 kg)	300 lbs (136 kg)
Power			
Input:	110-120 VAC	110-120 VAC	110-120 VAC
Output Relay:	110-120 VAC @ 8 Amps	110-120 VAC @ 8 Amps	110-120 VAC @ 8 Amps
Approximate Dimensions			
Length:	62" (1575mm)	62" (1575mm)	62" (1575mm)
Width:	34" (864mm)	34" (864mm)	34" (864mm)
Height:	52" (1321mm)	66" (1696mm)	66" (1696mm)
Approximate Weight:	235 lbs + crating	340 lbs + crating	355 lbs + crating
Model	ASCS-100-1	ASCS-100-2	ASCS-100-3
Capacity			
Tank:	100 gallons (114 L)	100 gallons (114 L)	100 gallons (114 L)
Dry Salt Capacity:	1,000 lbs (454 kg)	1,000 lbs (454 kg)	1,000 lbs (454 kg)
Power			
Input:	110-120 VAC	110-120 VAC	110-120 VAC
Output Relay:	110-120 VAC @ 8 Amps	110-120 VAC @ 8 Amps	110-120 VAC @ 8 Amps
Approximate Dimensions			
Length:	62" (1575mm)	62" (1575mm)	62" (1575mm)
Width:	34" (864mm)	34" (864mm)	34" (864mm)
Height:	56" (1422mm)	66" (1696mm)	66" (1696mm)
Approximate Weight:	285 lbs + crating	350 lbs + crating	365 lbs + crating

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