

## COMPLETE REDESIGN OF NORTH STAR “INSTALLATION & OPERATION MANUALS”

Every North Star ice maker is provided with a service manual. We have recently completed a total re-design of these manuals - adding many features and re-writing whole sections. The re-design provides easy-to-follow steps and the information needed to install and operate a North Star ice maker. The name of the manuals has changed from “Service Manuals” to “Installation & Operation Manuals.” Some of the changes to these new manuals are as follows:

- The ice maker manuals are now specific to the model and type of evaporator that the customer purchases.
- The manuals are now in PDF format so we can email them to customers and refrigeration contractors quickly and easily.
- We have expanded the Warning Labels and Safety Instructions section to be more in line with current safety labeling. We have also added a lockout procedure for the ice makers so our customers will be informed on how to prevent accidental start up.
- We have added a greater emphasis on notices, which are graphically highlighted. These prevent common mistakes that could lead to poor ice production or equipment damage.
- We have changed the Electrical and Control Systems section to tell customers specifically what electrical components are included with their ice maker, along with some control panel design recommendations.
- We have added a table to assist with the rotor rotation speed and some checkboxes to the Initial Startup Procedure. The table should cut down on time required to get ice makers running and is designed so customers can check off items as they complete them.

- We have expanded the operating procedure section by adding recommended procedures for short term and long term shutdowns.
- We have rearranged and expanded the maintenance section.
  - *The maintenance schedule is shown both as a chronological list and as “list by” items.*
- The lubrication section has expanded to several pages of important information on how to properly lubricate the top center gear reducer and the speed reducer as well as information on how to protect or lubricate the other bearings, seals, etc. The new Lubrication section also includes an improved recommended lubricant chart.
- We have added a section on corrosion, scale, and water quality so customers are better informed on what type of water to use to prolong the life of their ice maker.
- We have improved the cleaning section. We added a chart that gives suggested cleaning methods based on what they are cleaning or removing.
- We have created a new section called “Equipment Inspection and Adjustment” which will explain how to inspect and adjust items like the bearings, float valve, and ice removal tools.
- The Troubleshooting section has been improved by referring customers to page numbers of sections that should help them with any problems.
- An “Additional Troubleshooting Assistance from North Star” section has been added. It lists a series of questions that should help customers gather information so that if we

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receive a call about any problems, we are better able to assist.

- And finally, we have added a laminated, easy to understand ice maker maintenance card that is designed to be attached to the ice maker for quick reference on the following subjects.

- *Lockout Procedure*
- *Daily, Weekly, Monthly, and Quarterly Maintenance Checks*
- *Suggestions where to look in the manual if they are having common problems with the ice maker*
- *Recommended Lubricants*

We are confident that our new manuals will be a very welcome addition to the process of installing and operating North Star ice makers.

As always, please feel free to contact us with any questions or comments you may have.

### ***North Star Ice Equipment Engineering Department***

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*If you would like to receive a copy of our new Ice Maker Installation & Operation manual by email, please provide us with the serial number of the ice maker that requires the manual so we can send you the correct manual. All new ice makers are being shipped out with these new manuals.*