Manitowoc® Service Communicator

Subject: Cleaning Heavily Scaled Flake/Chiplet/Nugget Ice Machines

Heavily scaled Flake/Chiplet ice machines will have some or all of the following Symptoms:

- Grinding, popping or squealing noises from the evaporator
- Grinding noise from the gearbox
- Ice Machine repeatedly trips the speed sensor

When the ice machine evaporator and auger are coated with this much scale you will be unable to run a standard cleaning procedure (making ice with the cleaner and sanitizer). The speed sensor will shut-off the ice machine before you can complete a standard cleaning cycle. **Perform the attached procedure first, then run a standard cleaning procedure with cleaner and then sanitizer.**

To prevent this problem Manitowoc recommends a preventative maintenance cleaning/sanitizing every 30 days (place toggle switch in clean position and add cleaner or sanitizer) and a standard cleaning/sanitizing every 6 months (place the toggle switch in ICE position add cleaner or sanitizer solution and make ice). Local water conditions may require treating the water supply before it enters the ice machine to prevent excessive mineral build-up.

Procedure To Clean Heavily Scaled Flake/Chiplet/Nugget Ice Machines

1. Remove front and top covers and set toggle switch to the OFF position.
2. Remove all ice from bin.
3. Turn off the water supply to the ice machine.
4. Place the ICE/OFF/CLEAN toggle switch in the CLEAN position. The dump valve will open and drain the water from the evaporator and reservoir.
5. Wait approximately 30 seconds (or until the evaporator is drained) and place the toggle switch in the OFF position.
6. Refer to chart below:

Use only Manitowoc Ice Machine Cleaner P/N 000000084
Premix cleaner with lukewarm water in a non metallic container

Model	Mix Cleaner and Water	
	Cleaner	Water
QF400 QC700/QF800	32 ounces	16 ounces
QF2200 QF2300	48 ounces	24 ounces
SN12/SN20 SF400/SN450 SF600/SN650 SF900/SN950	16 ounces	64 ounces
SF1200/SN1250 SF2000/SN2050	32 ounces	64 ounces

Continued On Reverse Side

7. Start an ice making cycle by moving the toggle switch to the ICE position. Water will flow through the dump valve and down the drain for 45 seconds. After 45 seconds move the toggle switch to the OFF position. This procedure removes all water from the evaporator and water reservoir.
8. Remove the plug/cover from the top of the water reservoir. Add the entire cleaner/water solution and reinstall the plug/cover.

Leave the cleaner/water solution in the evaporator for a minimum of 4 hours.

9. Move the toggle switch from OFF to ICE. The cleaner/water solution will flow through the water dump valve and down the drain for 45 seconds.
10. **Move the toggle switch to the OFF position, then follow the standard cleaning and sanitizing procedures for the model ice machine you are cleaning.** The procedures are detailed in the Installation, Use and Care Manual and the ice machine label on the front panel.
11. Use any remaining cleaning mixture for “Removal of Parts for Cleaning”.