MANITOWOC ICE
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Preventative Maintenance

Subject: Indigo Ice Machines

CLEANING AND SANITIZING PROCEDURES



1. Remove front panel.

Use a Phillips screwdriver to loosen the screw(s) securing the door. Do not remove screw(s) completely; they are secured to prevent loss.



2. Turn ice machine off.

After ice has fallen from the evaporator, turn the ice machine OFF.



3. Disconnect main power at the service disconnect or breaker.

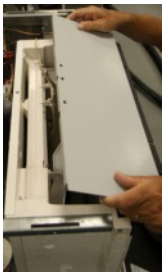
⚠WARNING

Do not begin cleaning other parts of the ice machine until line voltage is disconnected from the ice machine and if applicable dispenser.



4. Empty ice bin.

Use an ice scoop to remove all ice from the storage bin.



5. Remove top cover and evaporator dust cover.

Lift top cover to remove, then remove screws and evaporator dust cover.



6. Remove water curtain or splash shield.

Remove water curtain

Gently flex the curtain in the center and remove it from the right side.
Slide the left pin out.



Remove splash shield 48" models

Lift the splash shield up and forward to remove.



7. Remove water trough or ice damper

Water Trough

Depress tabs on right and left side of the water trough. Allow front of water trough to drop as you pull forward to disengage the rear pins.



Ice damper 48" models

Press the damper to the left and flex the middle. Pull forward on the right side until the right damper pin is free. Slide the left pin out.



8. Remove the ice thickness probe.

Compress the hinge pin on the top of the ice thickness probe.
Pivot the ice thickness probe to disengage one pin then the other.



9. Remove the water distribution tube

Loosen the two outer screws (do not remove screws completely; they are retained to prevent loss). Pull forward on the distribution tube to release from slip joint. Remove the water distribution tube.
Disassemble the distribution tube by loosening the two (2) middle thumbscrews and dividing the distribution tube into two pieces.
Remove both water distribution tubes on 48" models



10. Remove the water level probe.

Pull the water level probe straight down to disengage.
Lower the water level probe until the wiring connector is visible.
Disconnect the wire lead from the water level probe.
Remove the water level probe from the ice machine.



11. Remove the water pump.

Grasp pump and pull straight down on pump assembly until disengaged and the electrical connector is visible. Disconnect the electrical connector.
Remove the water pump assembly from ice machine.

⚠WARNING

Wear rubber gloves and safety goggles (and/or face shield) when handling ice machine cleaner or sanitizer.



Cleaner and Sanitizer Usage

Important

Ice machine cleaner is used to remove lime scale and mineral deposits. Ice machine cleaner should be used every six months, although in cases of extremely hard water conditions it may be necessary to use cleaner more often. For the range of water hardness allowed for potable water standards, it should not be necessary to use cleaner more frequently than every two months. Cleaner is only required when there is visible lime scale buildup on the evaporator or other parts. Use of an approved filtration system with a polyphosphate scale inhibitor is highly recommended for all ice machine installations and will significantly reduce the need for cleaner application in hard water applications.

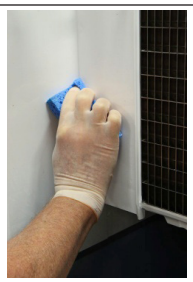
Ice machine sanitizer disinfects and removes algae and slime. Sanitizer must be used a minimum of once every six months.

	**⚠ CAUTION** Do not immerse the water pump motor in liquids. Only soak the water pump impeller and impeller housing. Do not immerse above the red line on the graphic.
	**12. Remove scale deposits from removed parts.** Mix 16 oz Manitowoc ice machine cleaner with one gallon of potable water in a three-compartment sink. Place the plastic parts in the solution and allow to soak for 10-15 minutes. Use a soft bristle brush on heavy scale or mineral buildup as required.
	**13. Clean scale deposits from surface areas of ice machine.** Use a clean towel or sponge soaked in cleaner solution to wipe ice machine surfaces, including the sides walls, base (area above water trough), and the bin or dispenser.
	**14. Rinse Surface Areas of Ice Machine.** Use a clean towel or sponge soaked in potable water to wipe ice machine surfaces, including the sides walls, base (area above water trough), and the bin or dispenser.
	**⚠CAUTION** Do not soak the water pump motor in rinse water or sanitizer solution. Be sure to only rinse/soak the water pump impeller and impeller housing. Do not immerse above the red line on the graphic.



15. Rinse and sanitize plastic parts.

Manitowoc Sanitizer
Mix two ounces of ice machine sanitizer with three gallonsof potable water in a three-compartment sink. Add five gallons of clear potable water to third sink compartment. Remove plastic parts from cleaner or delimer solution & rinse in clear potable water. Place the plastic parts in the sanitizer solution and allow to soak for at least one minute.



16. Sanitize surface areas of ice machine.

Use a clean sanitizer-soaked towel to sanitize ice machine surfaces, including the side walls, base (area above water trough), and the bin or dispenser. Spray surfaces with sanitizer solution and wipe down. Manitowoc sanitizer is classified as a no rinse sanitizer - Do not rinse sanitized surfaces.



17. Reinstall plastic evaporator parts.

Return the parts to the ice machine and reassemble. (Perform Steps 6 to 12 in reverse order).



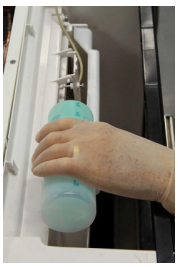
18. Restore power to the ice machine.

Restore power to the ice machine (and dispenser if applicable) at the circuit breaker.



19. Press CLEAN button.

The clean light will turn on to indicate the ice machine is in the clean mode.



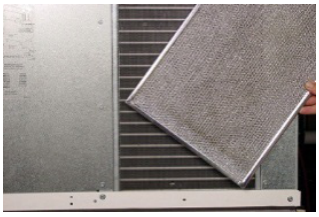
20. Add Manitowoc cleaner to water trough.

Wait for approximately 2 minutes until water starts to flow over the evaporator, then add the correct amount of sanitizer for your model by pouring between the evaporator and water curtain. The bottle is marked with 2 oz (60ml) graduations.
i300/i320/i520
3 ounces
i450/i500/i600/i850/i900/ i1000/i1200
5 ounces
i1400/i1800
9 ounces



21. Allow clean cycle to run.

The ice machine will automatically run through a wash cycle and several rinse cycles. The entire cycle lasts approximately 30 minutes for 30" wide models and 40 minutes for 48" wide models.
Countdown clock will let you know duration and time remaining.

	**22. Clean condenser air filter** While clean cycle is running. (self-contained air cooled models only) clean the condenser air filter. Lift out condenser filter on the rear of the machine, flush with water to clean, and then reinstall.
	**23. Press the CLEAN button.** The clean light will turn on to indicate the machine is in the clean mode
	**24. Add Manitowoc sanitizer to the water trough.** Wait for approximately 2 minutes until water starts to flow over the evaporator, then add the correct amount of sanitizer for your model by pouring between the evaporator and water curtain. The bottle is marked with 2 oz graduations. i300/i320/i520/i450/i500/ i600/i850/i900/i1000/i1200 3 ounces i1400/i1800 6 ounces
	**25. Reinstall evaporator dust cover and top cover.** Reinstall evaporator dust cover and screws and then reinstall top cover.

	**26. Reinstall front panels and tighten screws.**
	**27. Press the POWER button.** After the sanitizing cycle is complete, press the power button to return to making ice.

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