MANITOWOC ICE
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Preventative Maintenance

Subject: Indigo NXT Ice Machines

DETAILED DE-SCALING 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 by pressing the power button.



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 lift and remove evaporator dust cover.



6. Remove water curtain or splash shield.

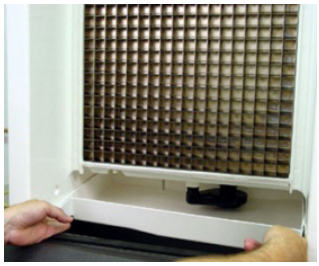
Remove water curtain

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



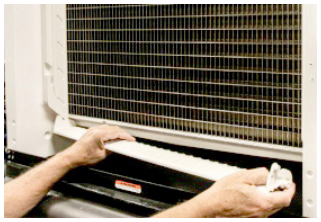
Remove splash shield 48" models

Lift the splash shield up and forward to remove.



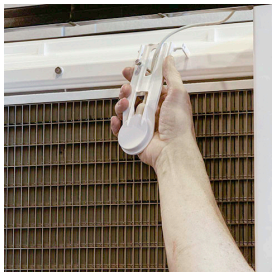
7. Remove water trough

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.



Remove Ice damper when used

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

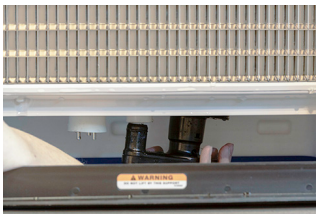
Loosen the two outer screws (do not remove screws completely; they are retained to prevent loss). Pull forward on the distribution tube to release from slip joint. Remove the water distribution tube. Disassemble the distribution tube by loosening the two (2) middle thumbscrews and dividing the distribution 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 to obtain access. The water level probe can be descaled and sanitized at this point without complete removal. If complete removal is desired, disconnect the ice thickness control wire from the control board.

NOTE: Some models allow disconnection of the wire lead from the water level probe. Lower the water level probe until the wiring connector is visible, then disconnect the wire lead connector from the water level probe and remove 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 / descaler or sanitizer.



Cleaner / Descaler (9405463) and Sanitizer (9405653) Usage

Important

Ice machine cleaner / descaler is used to remove lime scale and mineral deposits. Ice machine cleaner / descaler should be used every six months, although in cases of extremely hard water conditions it may be necessary to descale more often. For the range of water hardness allowed for potable water standards, it should not be necessary to descale more frequently than every two months. 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 to descale 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 or electrical connector in liquids. Only soak the water pump impeller and impeller housing. Do not immerse above the red line on the graphic.

Notice

Electrical connectors must never be exposed to any liquids.



12. Remove scale deposits from removed parts.

Mix 16 oz Manitowoc ice machine cleaner / descaler (9405463) 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 / descaler 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.

Notice

Electrical connectors must never be exposed to any liquids.



15. Rinse and sanitize plastic parts.

Mix two ounces of ice machine sanitizer (9405663) with three gallons of potable water in a three-compartment sink.
Add five gallons of clear potable water to third sink compartment. Remove plastic parts from cleaner / descaler 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.

Notice

When re-installing the water level probe, ensure the rubber gasket is sealed against the base of the ice machine and that any electrical connectors or wires remain free from moisture.



17. Reinstall plastic evaporator parts.

Return the parts to the ice machine and reassemble. (Perform Steps 5 to 11 in reverse order).



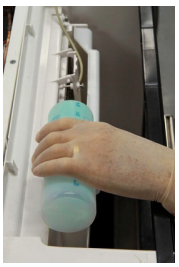
18. Restore power to the ice machine.

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



19. Press CLEAN button.

Follow the screen prompts to start the clean cycle. Wait until the prompt to add cleaner is displayed (approximately 2 minutes) then continue with next step.



20. Add Manitowoc cleaner / descaler (9405463) to water trough.

Add the correct amount of cleaner / descaler for your model by pouring between the evaporator and water curtain. The bottle is marked with 2 oz (60ml) graduations.

IF0300/IT0420/IT0520 IT0620
3 ounces

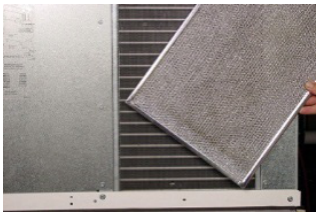
IT0450/IT0500/IP0500 IF0600/IBF0620C/IT0750 IBF0820C IF0900/IT0900/ IBT1020C/IT1200
5 ounces

IF1400C/IT1500/IF1800C IT1900/IF2100C
9 ounces



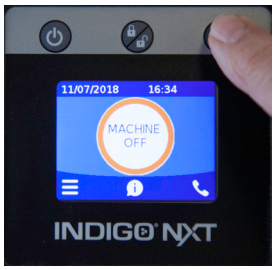
21. Allow clean cycle to run.

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 (self-contained air cooled models only)

While the clean cycle is running, 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.

Follow the screen prompts to start the sanitize cycle. Wait until the prompt to add sanitizer is displayed (approximately 2 minutes) then continue with next step.



24. Add Manitowoc sanitizer (9405653) to the water trough.

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.

IF0300/IT0420/IT0450
IT0500/IP0500/IT0520
IF0600/IT0620/IBF0620C
IT0750/IBF0820C/IF0900/
IT0900/IT1200
3 ounces (90ml)

IBT1020C
3.5 ounces (104ml)

IT1500/IT1900/
6 ounces (180ml)

IF1400C/IF1800C/IF2100C
12 ounces (355ml)



25. Reinstall evaporator dust cover and top cover.

Reinstall evaporator dust cover and then reinstall top cover.



26. Press the POWER button.

After the sanitizing cycle is complete, press the power button to return to making ice.



27. Reinstall front panel and tighten screws.

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