Manitowoc® Parts & Service Communicator

Subject: Guidelines to Clean, Sanitize, and Renovate Ice Machines Exposed to Contaminated Water Supply and/or Flooding Conditions

These procedures pertain to flash water flooding only, ice machines and bins submerged for extended periods or exposed to sewage /or chemical contaminants cannot be repaired. All bins, S Model Ice Machines and UnderCounter Model Ice Machines contain foam therefore are not repairable.

NOTE: The warranty does not cover the parts and labor to perform the following procedures and any failures associated to the flooding and contamination of the ice machine or storage bin.

> **⚠ Warning**
> Do not restart the ice machine after the flood waters recede. Read through the entire instructions completely before attempting clean up.

SECTION 1:
CLEANING AND SANITIZING ICE MACHINE EXPOSED TO CONTAMINATED ICE MAKING WATER SUPPLY

NOTE: If the ice machine was under water, complete an evaluation of the ice machine using Section 2 before proceeding with Section 1.

Clean and sanitize the ice machine as outlined in the Installation, Use and Care Manual. Clean and sanitize the complete ice machine and ice storage bin interior using Manitowoc Ice Machine Cleaner part number - 94-0546-3 (or metal safe cleaner #000000084 for the Flake/Chiplet/Nugget & SM Ice Machines) and Manitowoc Ice Machine Sanitizer (part number - 94-0565-3).

Disassemble all ice making components as outlined in the cleaning procedures. Soak all the parts, except the water pump, in the sanitizing solution. Soak only the water pump base - do not submerge the motor end. Rinse all parts thoroughly.

With parts removed, sanitize interior of ice machine and storage bin with sanitizer solution (1 ounce per 4 gallons cool water) and rinse thoroughly with potable water.

> **Important**
> In addition to removing the parts outlined in the procedure, replace the 1/4” plastic water line to the ice machine float valve / water inlet valve, or remove and clean in sanitizer solution.

Do not mix ice machine cleaner and sanitizer together. Use one solution at a time - ice machine cleaner first, then sanitizer. Sanitize the ice storage bin and ice machine drains by flushing with the sanitizer solution.

If using a water filter, replace the filter media. Wash the filter housing, interior and exterior, with sanitizer solution and rinse with potable water.

After sanitizing the ice machine interior and disassembling all parts, reassemble and circulate sanitizer solution for ten minutes. Drain and rinse at least six times.

> **Important**
> We recommend cleaning and sanitizing only after the potable water supply is safe for drinking and after thoroughly flushing the water supply line to the ice machine. Contact local water department for recommended procedures.

As an extra precaution, don’t use the first two batches of ice.

SECTION 2:
CLEAN-UP AND RESTORATION GUIDELINES FOR ICE MACHINES AND STORAGE BINS PARTIALLY OR COMPLETELY SUBMERGED IN FLOOD WATERS

> **⚠ Caution**
> A qualified service technician must perform the following procedures.

Use these guidelines to evaluate the extent of clean-up and restoration required for the ice machine and storage bin. Clean-up may not be economically feasible. This procedure pertains to flash water flooding only, ice machines and bins submerged for extended periods or exposed to sewage /or chemical contaminants cannot be repaired.

Automatic Cleaning System (AuCS)

The control board and pump must be replaced. It is not economically feasible to repair an AuCS exposed to flood waters.

Ice Storage Bin or Combined Ice Machine and Ice Storage Bin (UnderCounter Models)

A storage bin that is partially or completely submerged in contaminated water for any period of time has wet foam insulation. Because the interior foam may deteriorate and you cannot sanitize the interior of the bin walls, you must replace the bin.

Ice Machine

> **⚠ Warning**
> Disconnect the main power supply to the ice machine at the breaker / fuse box. Then disconnect supply wiring at the ice machine. Have an electrician check the supply wiring for moisture. Do not apply any power to the ice machine until it is thoroughly inspected, dried and cleaned.

Examine the ice machine to determine the extent it was submerged in water. Mark the height on the ice machine. The submerged area requires the following considerations:

1. Non-Electrical
   A. Remove all insulation on walls and rubatex insulation from refrigeration lines. Replace with new insulation.
   B. Wipe down all surfaces with a sanitizer solution. Rinse thoroughly.
   C. Clean and sanitize the entire ice making compartment as outlined in Section 1.
   D. Clean the air condenser (self-contained and remote models) with a mild soap and water solution as outlined in the Installation, Use and Care Guide.
2. Electrical
   A. **Replace** the following electrical components if they were submerged in water:
      - Control Board
      - Relay board with relays (when used)
      - Water pump delay timer (when used)
      - Dump valve delay timer (when used)
      - 7 second delay timer (when used)
      - Ice thickness probe
      - Run capacitor
      - Start capacitor
      - PTCR
      - Start relay
      - High pressure cut-out
      - Low pressure cut-out
      - Fan motor
      - Fan motor capacitor
      - Toggle switch
      - Water pump
      - Contactor
      - Terminal boards
      - Bin switches
      - Air compressor (when used)

B. Thoroughly wipe off and dry the following electrical parts: harvest, liquid and dump valve solenoid coils and valve bodies, compressor terminal area.

Important

These guidelines are not guaranteed to remove all moisture from the electrical system or prevent corrosion/rust to components or cabinetry as a result of being submerged in contaminated water. Warranty does not cover associated failures.

a. Attempt to wipe all wire ends dry. Clean wire leads and terminals with denatured alcohol or suitable dielectric cleaner and air dry. Circulate dry air over the entire ice machine to dry the cabinet and all electrical wires and connections on components

b. To help prevent oxidation and corrosion, spray all wire ends and components' electrical connections with a U.S.D.A. approved electrical grade silicone spray such as CRC Electrical grade silicone in 16 oz. spray cans.

c. When wiring is dry, check for leakage with an ohmmeter or high-potential (high-pot) test.

Important

This procedure is our best estimate on how to dry electrical wiring. Without replacing all wiring, we cannot guarantee there will not be an electrical wire or component failure due to moisture or corrosion of electrical connections.

⚠ Caution

Before attempting to restart the ice machine, it must be completely dry. Thoroughly inspect all electrical connections to ensure they are properly wired and verify the proper supply power and ground connections.

d. Follow start-up procedure as outlined in the Installation, Use and Care Manual.

e. Inspect the ice machine regularly. Replace electrical wire connectors that start to rust or corrode to prevent eventual failure.