

## 1. AIR CONDENSER CLEANING:

1. Disconnect the unit from the electricity.
2. Close the water inlet valve or tap.
3. Clean condenser using a vacuum cleaner, soft brush or low-pressure air. Clean from top to bottom, not side to side. Be careful not to bend the condenser fins.
4. Open the water inlet valve or tap.
5. Connect the unit to the electricity.

## 2. WATER CONDENSER CLEANING:

1. Disconnect the unit from the electricity.
2. Close the inlet water faucet.
3. Disconnect the condenser water inlet and outlet.
4. Prepare Calklin cleaning product or a 50% solution of phosphoric acid and distilled or demineralized water solution of phosphoric acid and distilled or demineralized water.
5. Circulate it through the condenser. The mixture is most effective between 35°C and 40°C. Empty the product from the condenser and connect the condenser water inlet and outlet.
6. Open the water faucet.
7. Connect the unit to the electricity.

**DO NOT USE HYDROCHLORIC ACID.**

## 3. WATER FILTER REPLACE

1. Disconnect the unit from the electricity.
2. Close the inlet water faucet.
3. Close the faucets before and after the filter.
4. Remove the old cartridge and replace it with a new one.
5. Open all the closed faucets.
6. Connect the unit to the electricity.

## 4. WATER CIRCUIT CLEANING:

1. Switch off the electric panel and place the timer in defrosting position.
2. Remove the top cover.
3. Place the overflow pipe. Remove the evaporator cover.
4. Prepare a solution of 50% phosphoric acid in distilled water. Do not use hydrochloric acid. **Do not use sulfamic acid - hydrochloric acid.** Pour slowly this solution in the upper part of the evaporator, until it overflows in the water tray. The mixture is more effective with the water between 35°C and 40°C.
5. Let solution stand for 10 minutes.
6. Disconnect from the terminal block located in the compressor compartment and from the central terminal, the brown cable that feeds the compressor if it does

- not have a washing switch. In the case of having a flushing switch, set the switch installed on the electrical panel to 0 to stop the compressor.
7. Replace the plugs, lift the curtain, and introduce the solution into the water tank.
  8. Plug in the machine (everything works except the compressor) and wait 20 minutes.
  9. Remove the plugs, unplug the ice machine and repeat the previous operation but with clear water.
  10. Open the water stopcock, unplug and remove the plugs, put the programmer in take-off position, replace the plugs and plug it in. Leave it running for 5 minutes. Repeat this operation several times.
  11. Plug in the brown wire or set the cleaning switch to I, move the controller back to lift-off and let it switch the timer back to lift-off and allow it to make a couple of batches of ice cubes.
  12. Open faucet, put the timer forward up to the harvest cycle and once the ice has fallen disconnect the machine and put the timer in defrosting position.

**WARNING:\*\*** Discard ice produced during cleaning procedure.

## **NOW STARTS THE SANITARY CLEANING.**

13. Clean and assemble all the components. Verify that the grill is cleaned and that cubes slide properly. Check that any strip gets blocked in the curtain. Check and/or change the water inlet filters.
14. Check the adjustments of the cycle thermostat (cubes more or less filled) and that at the end of the cycle the frost is closed to the compressor.

### ***Ice bin cleaning.***

1. Unplug the machine, turn off water supply, and empty storage bin of ice.
2. Empty the bin, remove the cover of the drain channel.
3. Wipe with a kitchen cloth soaked in lye and detergent.
4. If white lime stains do not vanish, rub with some lemon or vinegar, wait for a few minutes and wipe with the cloth again.
5. Rinse with plenty of water, dry, and run the machine.

### ***Outside cleaning***

Follow the same procedure as for the ice bin.

### ***Checking for water leaks***

Always check all water connections when working on the machine, clamps and hoses in order to avoid leaks and prevent breakages and flooding. prevent breakage and flooding.

On machines equipped with a tank cleaning valve, check that the valve closes perfectly. the valve closes perfectly.

## 5. MAINTENANCE TABLE:

<b>MAINTENANCE</b>	<b>Dusty ambient</b>	<b>Normal ambient</b>
Air condenser cleaning	6 months	12 months
Water condenser cleaning	6 months	12 months
<b>MAINTENANCE</b>	<b>Hard water (over 400ppm)</b>	<b>Soft water (less than 400 ppm)</b>
Water filter changing	6 months	12 months
Hydraulic circuit cleaning	6 months	12 months
Injectors cleaning	6 months	12 months
Sanitation cleaning	6 months	6 months
Exterior cleaning	To do by user	To do by user
Stock bin cleaning	To do by user	To do by user

**During the maintenance visit, check the connections on the electric board.**