

## 1. AIR CONDENSER CLEANING:

1. Disconnect the unit from the electricity.
2. 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.
3. 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 the cleaning product **Calkin** or a solution with 50% phosphoric acid and distilled water. **Do not use hydrochloric acid**. We recommend using the cleaning product Calkin. The mixture is more effective if the water is between 35°C and 40°C. Flow the solution through the condenser for about 10 minutes using a recirculating pump.
5. Empty the product from the condenser and connect the condenser water inlet and outlet.
6. Open the water faucet.  
Connect the unit to the electricity.

## 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 unit with the main switch.
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.
5. 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.
6. Let solution stand for 10 minutes.
7. Remove the overflow pipe and wait until the tray is empty. Put again the overflow pipe. (In machines provided with discharge valve should be activated manually).

8. Refill the water tray to the maximum level with the same solution. Connect the machine (close faucet), by pressing the switch 3 on the electronic board and at the same time switching the unit on with the main switch (to start cleaning with no cooling production) and wait 20 minutes. In old units, mechanical ones, place the timer on defrosting before turning on the unit.
9. 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.**

10. Connect the machine once it has finished entering water, remove the evaporator cover and pour lye (one glass). Wait for 20 minutes.
11. Put the timer forward up to defrosting position. Once the ice has fallen, **THROW AWAY THIS ICE** and let the machine produce another complete cycle.

**IMPORTANT: \*\*** Discard ice produced during this procedure.

12. 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.
13. 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.
14. **CHECK THAT THE NOZZLES ARE PROPERLY PLACED, THAT THE FORMED WATERFANS ARE UNIFORM AND ALL EQUAL.** If necessary, disassemble, clean and put again in the right position.

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

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

### ***Outside cleaning***

Follow the same procedure as for the ice bin.

### ***Spray nozzles and connecting pipes***

1. Remove the curtain (it can be cleaned with vinegar or phosphoric acid, rinse, clean with lye, rinse)
2. Remove the metal grill and clean likewise.

3. Pull upwards the connecting pipe. It has been assembled by pressing into place.
4. Disassemble the nozzles and the connecting tube covers and clean them.
5. Disassemble and clean the main filter of the production unit. (It is assembled by pressing into it)
6. Assemble the filter, nozzles and connecting tube.

**ATTENTION:** IT IS ESSENTIAL THAT SPRAY NOZZLES ARE COMPLETELY PERPENDICULAR TO THE CONNECTING TUBES, OTHERWISE THE CUBES AT THE ENDS MAY NOT RECEIVE WATER.

7. Place the grill over the nozzles, with the back slots secure.
8. Install the curtain, ensuring that all of the strips can move freely.
9. Run the machine but DISCARD THE FIRST SET OF ICE CUBES.

## 5. MAINTENANCE TABLE:

MAINTENANCE	Dusty ambient	Normal ambient
Air condenser cleaning	6 months	12 months
Water condenser cleaning	6 months	12 months
MAINTENANCE	Hard water (over 400ppm)	Soft water (less than 400 ppm)
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.**