



TECHNICAL MANUAL

SPIKA SERIES

ICE CUBE MAKERS - UNDERCOUNTER MODELS

SPIKA NG 50
SPIKA NG 70
SPIKA NG 100
SPIKA NG 150

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1. INTRODUCTION

Thank you for purchasing a 'Spika Series' Ice Cube Maker by The Company. You have purchased one of the most reliable ice-making products on the market today.

Carefully read the instructions contained in this manual since they provide important information relative to safety during installation, use, and maintenance.

1.1.- WARNING

This appliance is intended to be used in household and similar applications such as staff kitchen areas in shops, offices and other working environments; farmhouses and by clients in hotels, motels and other residential type environments; bed and breakfast type environments; catering and similar non-retail applications.

The installation of this equipment should be done by the Service Department.

The socket should always be placed on an accessible location.

When positioning the appliance, ensure the supply cord is not trapped or damaged.

Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.

Always disconnect the power supply from the machine before any cleaning or maintenance service.

Any change needed on the electrical installation for the appropriate connection of the machine, should be exclusively performed by qualified and certified professional personnel only.

Any use by the ice maker not intended to produce ice, using potable water, is considered inappropriate.

It is extremely dangerous to modify or intend to modify this machine and will void warranty.

The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.

Children being supervised not to play with the appliance.

Connect to potable water supply only. To see "Installation" chapter (5).

This machine is not intended to be used outdoors nor exposed to the rain.

The machine should be connected using the power cord supplied with the equipment.

It is mandatory to ground the equipment to avoid possible electric shock on individuals or damages to the equipment. The machine should be grounded pursuant local and/or national regulations. The manufacturer shall be held harmless in case of damages arising due to the lack of the ground installation. To see "Installation" chapter (7).

In order to assure the proper operation and efficiency of this equipment, it is extremely important to follow the recommendations of the manufacturer, especially those related to cleaning and maintenance operations, which should be performed by qualified personnel only.

CAUTION: The intervention of non-qualified personnel, besides of being dangerous, could result in serious malfunctioning. In case of damages, contact your distributor. We recommend always using original spare parts.

The Company reserves the right to make changes in specifications and design without prior notice.

This signal indicates “Risk of fire / Flammable materials” because of the use of flammable refrigerant.



For compression-type appliances that use flammable refrigerants should additionally consider the substance of the warnings listed below:

- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Do not damage the refrigerant circuit.
- Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

In case of a flammable refrigerant leakage:

- Do not generate flames close to the appliance.
- Do not switch on/off or plug in/off the appliance.
- To ventilate immediately the area where appliance is located by opening doors and/or windows.
- To call to an authorized technical service.

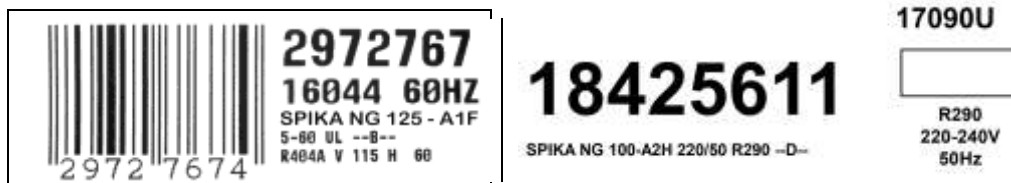
Disposal of the ice maker: The company encourages to follow the regulations of each country regarding eco-friendly disposal of electric and electronic devices such this one. User who is wanting to dispose of this equipment must contact the manufacturer and follow the method to appropriate differentiated collection for the subsequent treatments.

1.2.-RECEPTION OF THE MACHINE

Inspect the outside packing. In case of damages, make the corresponding claim to the carrier. To confirm the existence of damages, unpack the machine in the presence of the carrier and state any damage on the equipment on the reception document or freight document.

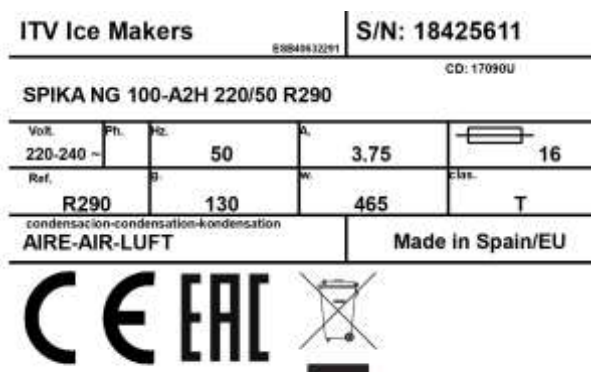
Always state the machine number and model. This number is printed on three locations:

(1) Packing: On the outside, it contains a label with the serial number.



(2) Exterior of the unit: On the back panel of the unit, there is a label with the same characteristics as the previous one.

(3) Nameplate: On the back of the machine.



Check that in interior of the machine the installation kit is complete and comprises:

- Ice scoop
- 3/4 inlet water hose
- 22 mm drain hose
- 1 filter
- User manual.
- Warranty and serial number.

CAUTION: All packing elements (plastic bags, carton boxes and wood pallets) should be kept outside the reach of children, as they are a source of potential hazard.

2. INSTALLATION

2.1.- PLACING OF THE ICE MAKER

This ice maker is not designed for outdoor operation. The icemaker should not be located next to ovens, grills or other high heat producing equipment.

The machines are designed to operate at room temperature between 10°C and 43°C. There may be some difficulties in ice slab removal under the minimum temperatures. Above the maximum temperature, the life of the compressor is shortened and the production is substantially lower.

The air cooled undercounter ice makers take the air through the front section, and drive it off through the back and also front louvers due to their new oblique condenser structure and placement. Do not place anything on the top of ice maker or facing the front grille. In case the front grille is either total or partially obstructed, or due to its placement it receives hot air from another device, we recommend, in case it is not possible to change the location, to install a water cooled machine.

The location must allow enough clearance for water, drain and electrical connections in the rear of the ice machine. It is important that the water inlet piping does not pass near sources of heat so as not to lose ice production.

2.2.-LEVELLING OF THE ICE MAKER

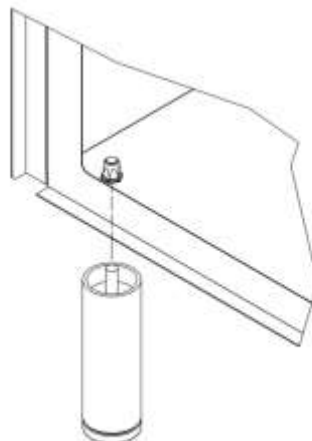
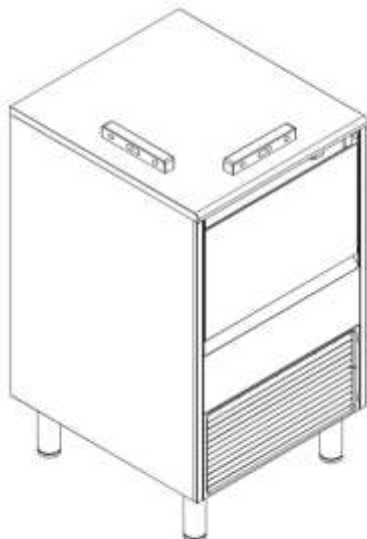
Use a level on top of ice machine in order to ensure the equipment is perfectly leveled.

Screw the leveling legs onto the bottom of the ice machine as far as possible.

Move the machine into its final position.

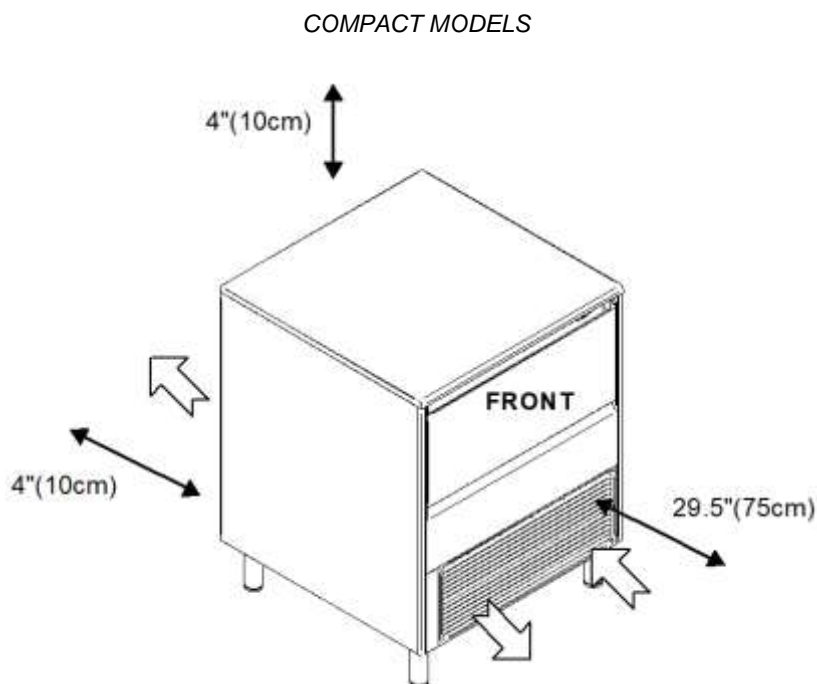
Use a level on top of the ice machine. Adjust each leg as necessary to level the ice machine from front to back and side to side.

ATTENTION: There is an optional 90mm high casters kit that can be used in substitution of the standard legs. These wheels are supplied with the corresponding installation instructions.



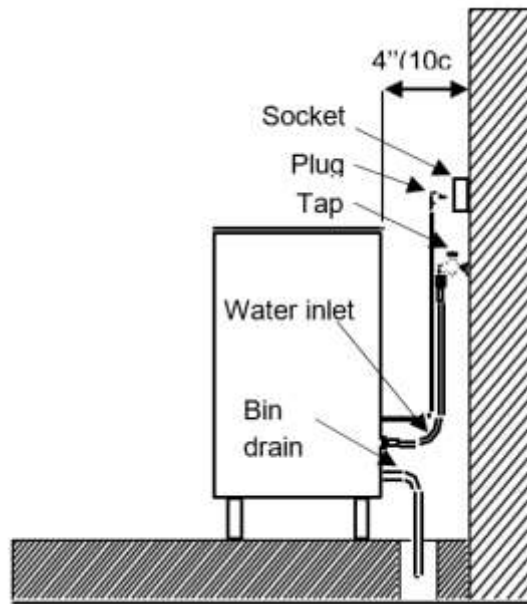
2.3.-MINIMUM DISTANCE TO OBSTACLES

Please see below the recommended minimum distances for proper operation and efficient service.



CONNECTION DIAGRAM:

The location must allow enough clearance for water drain and electrical connections in the rear of the ice machine.



2.4.- WATER SUPPLY CONNECTION

The quality of the water supplied to the ice machine will have an impact on the time between cleanings and ultimately on the life of the product (mainly in water cooled units). It also will have a remarkable influence on the appearance, hardness and flavor of the ice.

Local water conditions may require treatment of the water to inhibit scale formation, improve taste and clarity. If you are installing a water filter system, refer to the installation instructions supplied with the filter system.

Pressure should be between 0.1 and 0.6 MPa (1-6 bar). If pressure overpasses such values, install a pressure regulator.

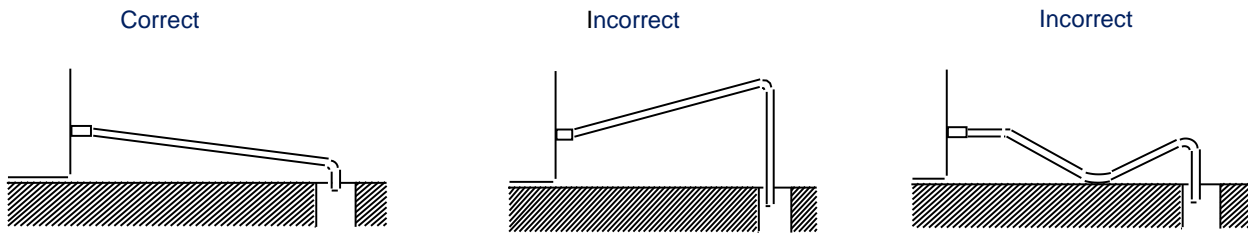
The water connection needs to be dedicated (only piece of equipment hooked to the water line). Water line from the water valve to the ice machine needs to be 1/4" nominal ID tubing.

ATTENTION: The machine shall be plumbed (with adequate backflow protection) according to applicable national and local regulations.

2.5.-DRAIN CONNECTION

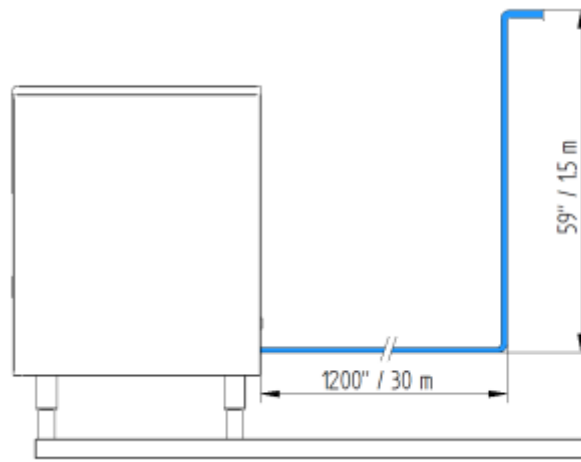
Drainage should be located lower to the machine level, at 150mm minimum.

It is convenient that the drain hose is 30mm inside diameter and with a minimum gradient of 3cm/metre, see figure.

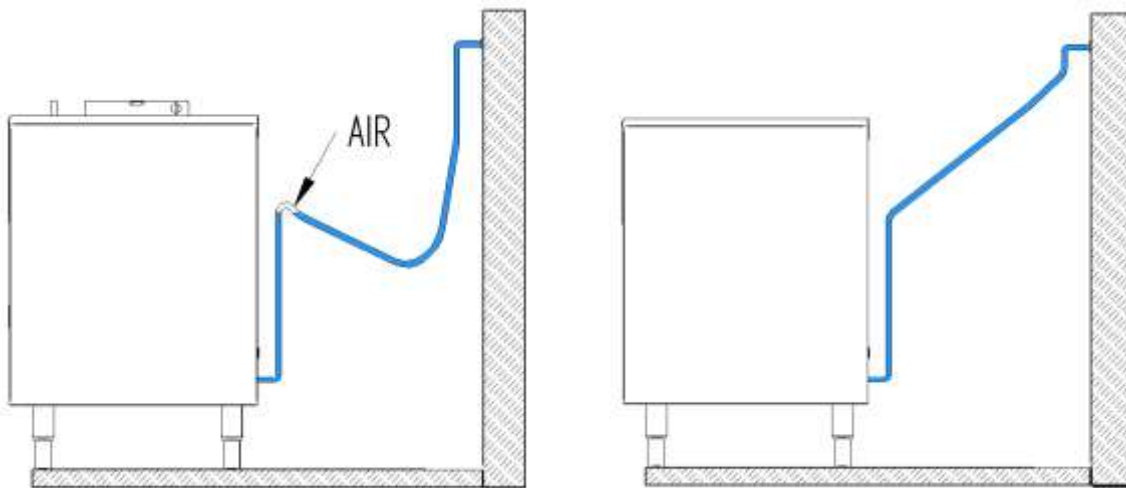


2.6.2.- DRAIN FORCE CONNECTION

This version of drain force allows an installation of the machine where the drain can be located 30 meters horizontally and 1.5 meters high from the machine's water outlet.



If the drain pipe runs incorrectly, the pump may not be able to drain the water, because the flow of the pump may be influenced due to the existence of stored air within the circuit.



2.6.- ELECTRICAL CONNECTION

It is mandatory to ground the equipment. To avoid possible electric shock on individuals or damages to the equipment, the machine should be grounded pursuant local and/or national regulations as the case may be.

The manufacturer shall be held harmless in case of damages arising due to the lack of the ground installation.

In case the supply cable is damaged, it should be replaced by a cable of special assembly to be furnished by the manufacturer or after-sales service. Such replacement should be performed by qualified technical service only.

The machine should be placed in such a way as to allow a minimum space between the back and the wall to allow an easy access and without risks to the cable plug.

Safeguard the socket. It is convenient to install adequate switches and fuses.

ATTENTION: The appliance requires an independent power supply of proper capacity. See the nameplate for electrical specifications. Failure to use an independent power supply of proper capacity can result in a tripped breaker, blown fuse, damage to existing wiring, or component failure. This could lead to heat generation or fire.

Voltage is indicated in the nameplate and on the technical specifications section of this manual. Variation on voltage above the 10% stated on the nameplate could result in damages or prevent the machine start-up.

3. PRIOR CHECKING AND START-UP

3.1.- PRIOR CHECKING

- a) Is the machine leveled?
- b) Voltage and frequency are the same as those on the nameplate?
- c) Are the drains connected and operating?
- d) Will the ambient temperature and water temperature remain in the following range?

| | ROOM | WATER |
|----------------|------|-------|
| <i>MAXIMUM</i> | 43°C | 30°C |
| <i>MINIMUM</i> | 10°C | 10°C |

- e) Is water pressure appropriate?

| | |
|----------------|-----------------|
| MINIMUM | 0.1 MPa (1 bar) |
| MAXIMUM | 0.6 MPa (6 bar) |

In case inlet water pressure is higher than 0.6 Mpa, install a pressure regulator.

3.2.- START-UP

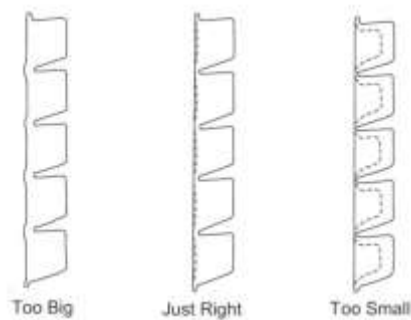
Once the installation instructions are followed (ventilation, site conditions, temperatures, water quality, etc.), proceed as follows:

- 1.- Open the water inlet. Verify the no existence of leakages.
- 2.- For under counter models open the door and remove the protection elements on the shield.
- 3.- Verify that the shield moves freely. And the water tray is in place
- 4.- Connect the machine to the power supply.
- 5.- Push the switch on the machine front side.

6.- Verify that there are no vibrations or frictions on the elements.

7.- Verify that the water fall to the evaporator is occurring uniformly and all ice cubes are properly watered.

8.- Close door. Verify the ice slab with the pictures below. Adjust the cycle time dip switches (see point 4.1).



Damages due to the lack of maintenance and cleaning operations are not included on the warranty.

4. SEQUENCE OF OPERATION UNDERCOUNTER MODELS (NG)

Once you connect the machine there is a time delay of 2 minutes during which the water valve is activated to ensure the water tray is filled.

Once the time is up, the compressor starts and the pump which recirculates the water from the water tray to the upper distributor which provides a soft and uniform flow of water over the evaporator cells, in which the water starts freezing.

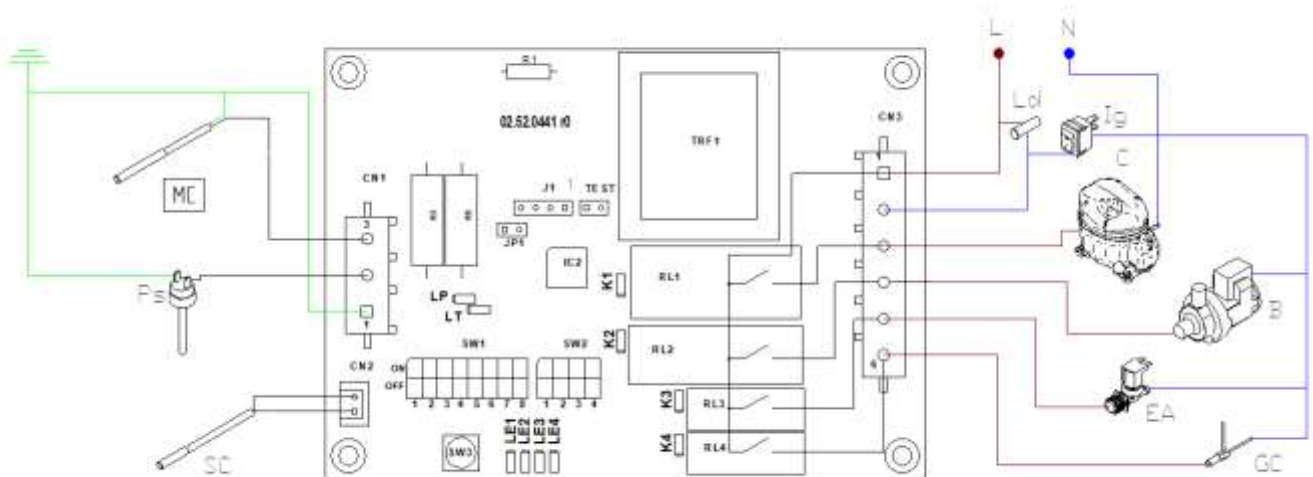
When the temperature probe at the end of the evaporator reaches an adjusted value T_c ($-2/-4^{\circ}\text{C}$), the fabrication continues the fixed time with the combination of dip-switches 1-4 (see table). This way we can ensure the filling of the evaporator is correct in different working conditions.

Once the fabrication is over the harvest phase starts. The pump stops, the hot gas valve open and the water inlet valve open only during the time fixed in the dip-switches 5-7. Water is sprayed over the back of the evaporator helping unstick the slab and precooling it for the next cycle. This heat recover enhances the machine's energetic efficiency.

Once the ice slab falls into the bin, the evaporator curtain opens and closes. A magnet placed on the side of this curtain activates the sensor and ends the harvest cycle, advancing to the fabrication cycle.

Once the ice bin is full, the slab does not go out completely, and this prevents the curtain from closing. If it remains open more than 60 seconds the machine goes into full bin state. All the components shut down until the ice is retired, the curtain closes, and a new cycle starts.

4.1. UNDERCOUNTER CONTROL BOARD



| PCB connections | |
|-----------------|----------------------------------|
| Outputs | |
| C | compressor |
| B | Water pump |
| EA | Water inlet valve |
| GC | Hot gas valve. |
| Inputs | |
| SC | Evaporator temperature NTC probe |
| P | Safety pressure switch |
| MC | Curtain switch |
| N | PCB push button |

LED signalling

Next to each out relay there is an orange led. Signals relay on

Next to each input terminal there is an orange led marking input active.

There are four additional red leds that signals machine status (continuous) or alarm (flashing)

| Status signaling . Continuous led | | | | |
|-----------------------------------|-----|-----|-----|-----|
| | LE1 | LE2 | LE3 | LE4 |
| Start up delay | X | | | |
| Ice cycle T>Tc | X | X | | |
| Ice cycle T<Tc | | X | | |
| Harvest | | | X | |
| Full bin | | | | X |
| Alarm signaling . Flashing led | | | | |
| | LE1 | LE2 | LE3 | LE4 |
| Safety pressure switch | X | | | |
| Ice cycle timeout | | X | | |
| Harvest cycle timeout | | | X | |
| Faulty temperature probe | | | | X |

Dip switches setting

| dip | Descripción (* factory setting) |
|-----|--|
| 1-4 | tf - ice production timer. See table |
| 5-7 | tw - Water input timer. See table. |
| 8 | Tc - Evaporator temperature for timer start. ON=-2°C / OFF=-4°C |
| 9 | Not used |
| 10 | Safety high pressure switch trip function. ON= automatic reset (minimum stop 30 min.) OFF= manual reset (power OFF-ON) |
| 11 | Timeout alarms operation ON = activated OFF = unactivated |
| 12 | Software selection. Important: Always OFF for these models |

| ICE / WATER TIMER SETTING | | | | | | | | | | | |
|---------------------------|-----|-----|-----|----------|--|-----|-----|-----|----------|--|--|
| SW1 | | | | TF (MIN) | | SW1 | | | TW (SEG) | | |
| 1 | 2 | 3 | 4 | | | 5 | 6 | 7 | | | |
| OFF | OFF | OFF | OFF | 4 | | OFF | OFF | OFF | 30 | | |
| ON | OFF | OFF | OFF | 6 | | ON | OFF | OFF | 40 | | |
| OFF | ON | OFF | OFF | 8 | | OFF | ON | OFF | 50 | | |
| ON | ON | OFF | OFF | 10 | | ON | ON | OFF | 60 | | |
| OFF | OFF | ON | OFF | 12 | | OFF | OFF | ON | 70 | | |
| ON | OFF | ON | OFF | 14 | | ON | OFF | ON | 80 | | |
| OFF | ON | ON | OFF | 16 | | OFF | ON | ON | 90 | | |
| ON | ON | ON | OFF | 18 | | ON | ON | ON | 100 | | |
| OFF | OFF | OFF | ON | 20 | | | | | | | |
| ON | OFF | OFF | ON | 22 | | | | | | | |
| OFF | ON | OFF | ON | 24 | | | | | | | |
| ON | ON | OFF | ON | 26 | | | | | | | |
| OFF | OFF | ON | ON | 28 | | | | | | | |
| ON | OFF | ON | ON | 30 | | | | | | | |
| OFF | ON | ON | ON | 32 | | | | | | | |
| ON | ON | ON | ON | 34 | | | | | | | |

4.2.- ALARMS

They detect operational malfunctions. They are indicated with the flashing status Leds LE1-4.

During some alarms a second operation retry attempt is carried out and if repeated again, the machine will stop. Signaling should be indicated since the first failure occurs. If the second retry attempt is ok, the signaling will switch off.

In case that a machine stop has been caused by alarm, the reset is done by switching OFF and ON the main switch. If the dip-switch 11 OFF, time alarms are not to be followed.

4.2.1 SAFETY HIGH PRESSURE SWITCH

When the pressure contact (P) trips, instantly, all outputs switch over to off position.

When it is closed again, there are two possibilities:

- Dip-switch 10 OFF. Manual reset. The machine remains stopped until reset to Initial start-up.
- Dip-switch 10 ON. Automatic reset. The machine check pressure switch status every 30 min. When closed, the machine will continue at the position where it was.

* Signalling: Flashing LE1.

4.2.2 LONG HARVEST

If the harvest time is longer than 4 min. without activation of the curtain micro contact (MC), the harvest is interrupted, switching over to the production cycle. If the same happens again at the next harvest, the machine will stop.

* Signalling: Flashing in LE3.

4.2.3 ICE PRODUCTION CYCLE TIMEOUT

If during the production cycle, evaporator temperature probe has not reached the set temperature Tc in more than 60 min, the machine will stop until reset.

* Signalling: Flashing in LE2.

4.2.4 FAULTY TEMPERATURE PROBE

If PCB detects that evaporator temperature probe is broken or unconnected, the machine will stop

* Signalling: Flashing in LE4.

Probe type is NTC and resistance value must be 10kΩ at 25°C.

4.3 PCB PUSH BUTTON FUNCTION

Function depends on the unit status:

- Start up timer: Finish initial delay y passes to ice production stage
- Ice production. Switches to harvest
- Harvest. Switches to Ice production

Wash cycle activation.

Keep pressed the button while switching on main front switch. Wash cycle is activated and only the water recirculation pump is running. There is a maximum time for this cycle of 30 min. After this time, pump stops.

Wash cycle is finished by switching off main power.

Read cleaning and sanitizing instructions for proper usage of this function.

4.4 DRAIN FORCE

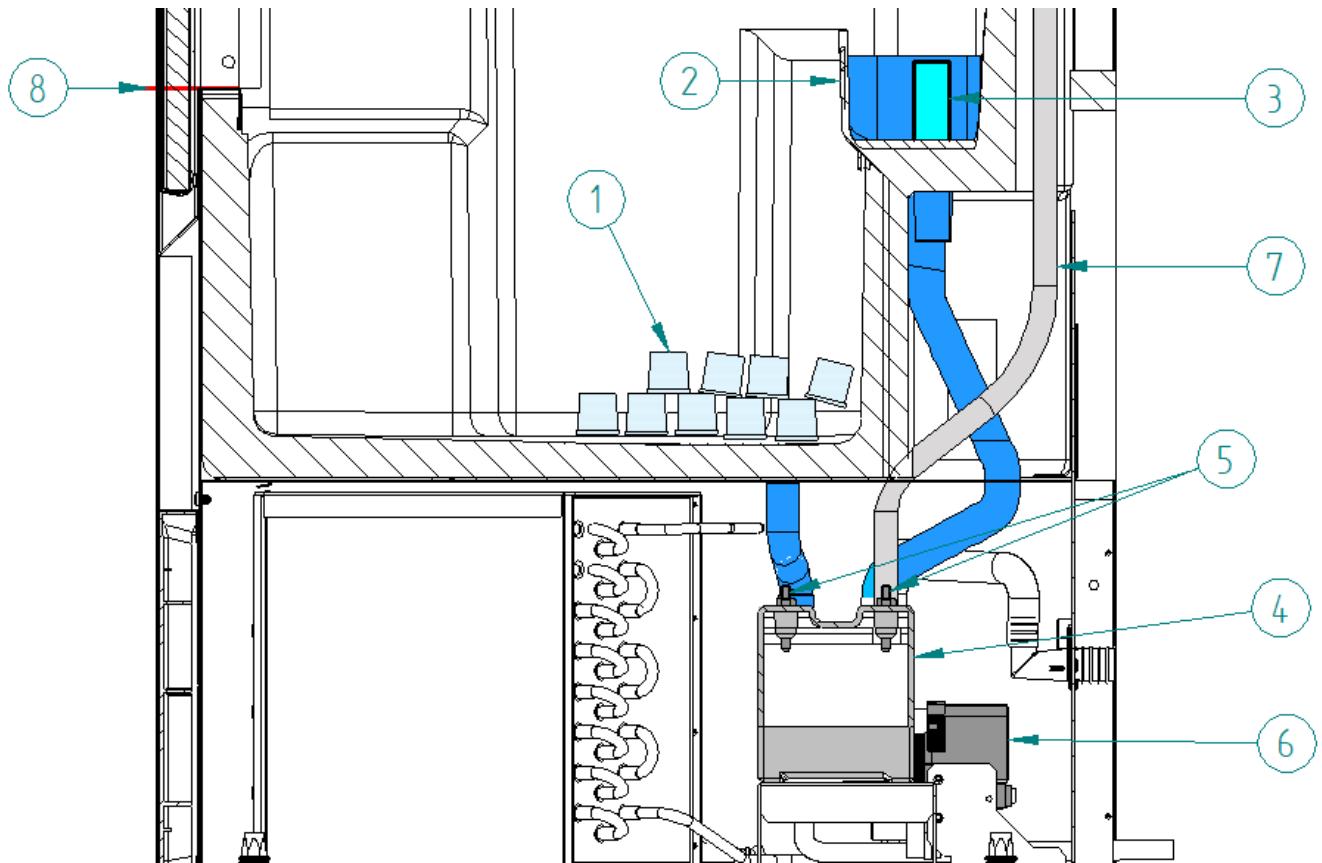
4.4.1 SEQUENCE OF OPERATION

While the machine is turn on, there is water that need to be evacuated between each cycle. There are 2 possible outlet water, one is if the ice in the storage bin melts (#1) and the other is when the production time ends, the water electrovalve opens and fills the water tray(#2) to renovate the water. The excess of water goes out by the overflow (#3) to the drain force water reservoir (#4).

When the water reservoir is full of water covering the 2 electrodes (#5), the pump (#6) turns on and evacuates water for 5 seconds. After 5 seconds, the pump turns off if the electrodes are not covered by the water, otherwise, the pump will start again for 5 seconds.

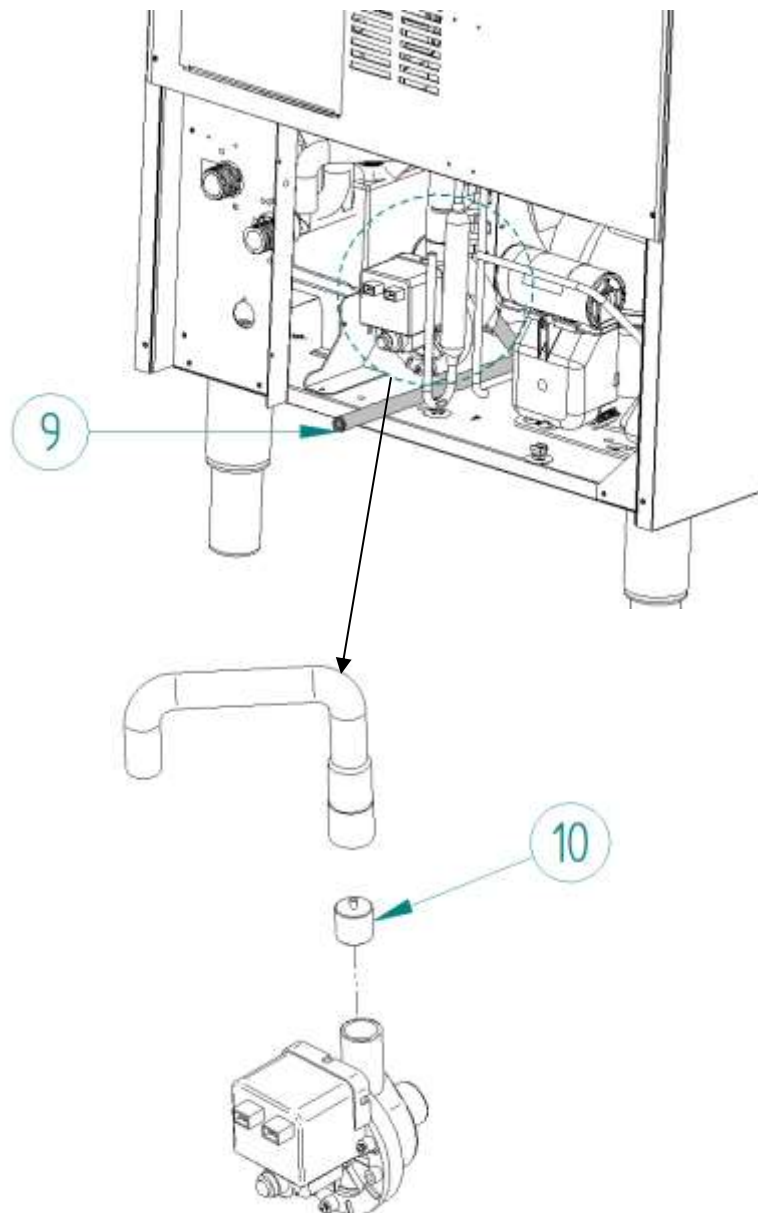
In case that the system does not work for any issue, the water will flood the ice bin. There is a ventilation tube (#7) that allows the system to remove any air that may remain in the water reservoir. The Vent tube must be always over the mouth of the front door (#8).

In case that the pump works for 5 minutes continuously, it will stop for 5 seconds automatically in order to refrigerate.

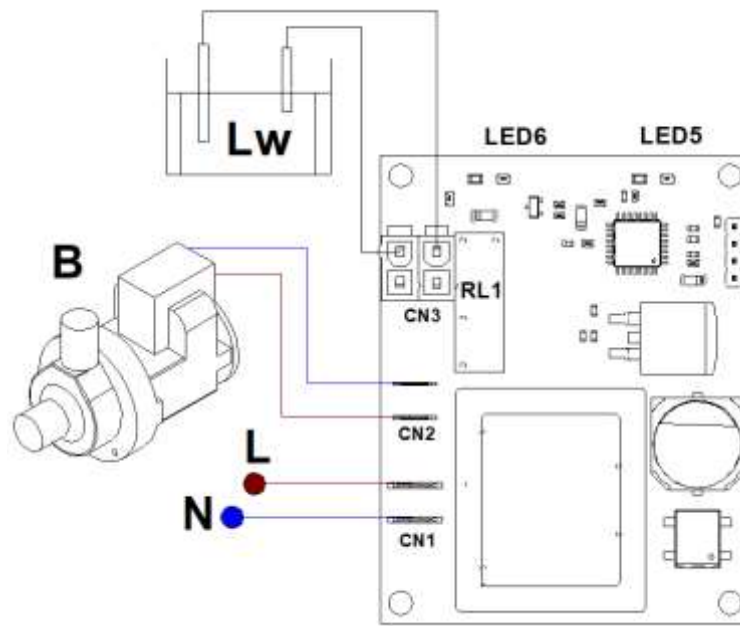


The system has a way to evacuate the water inside the water reservoir in a manual way. There is a plug (#9) in one of the plastic tube, by retiring this plug, it is possible to evacuate all the water.

Also, the system has a Check valve(#10) that does not allow the water to come back to the water reservoir.



4.4.2 CONTROL BOARD



PCB connections

Outputs

B Water pump

Inputs

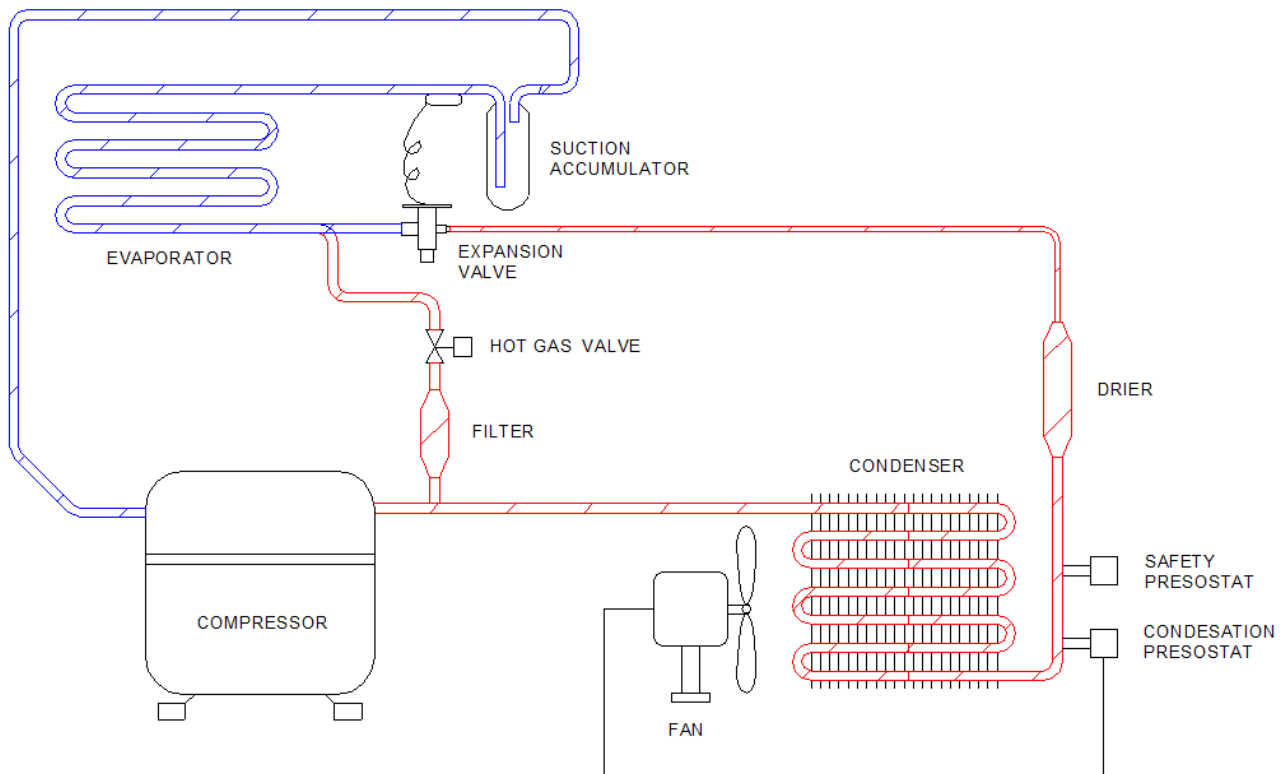
Lw Water Level Sensor

LED signalling

There are two LEDs that signals machine status

| Status signaling. Continuous led | | |
|----------------------------------|------|------|
| | LED5 | LED6 |
| PUMP RUNNING | X | |
| WATER LEVEL SENSOR ON | | X |

5 Refrigeration diagram



6 MAINTENANCE AND CLEANING PROCEDURES

It is the User's responsibility to keep the ice machine and ice storage bin in a sanitary condition. Ice machines also require occasional cleaning of their water systems with a specifically designed chemical. This chemical dissolves mineral build up that forms during the ice making process. Sanitize the ice storage bin as frequently as local health codes require, and every time the ice machine is cleaned and sanitized.

The ice machine's water system should be cleaned and sanitized at least twice a year.

CAUTION: Do not mix Ice Machine Cleaner and Sanitizer solutions together.

WARNING: Wear rubber gloves and safety goggles when handling Ice Machine Cleaner or Sanitizer.

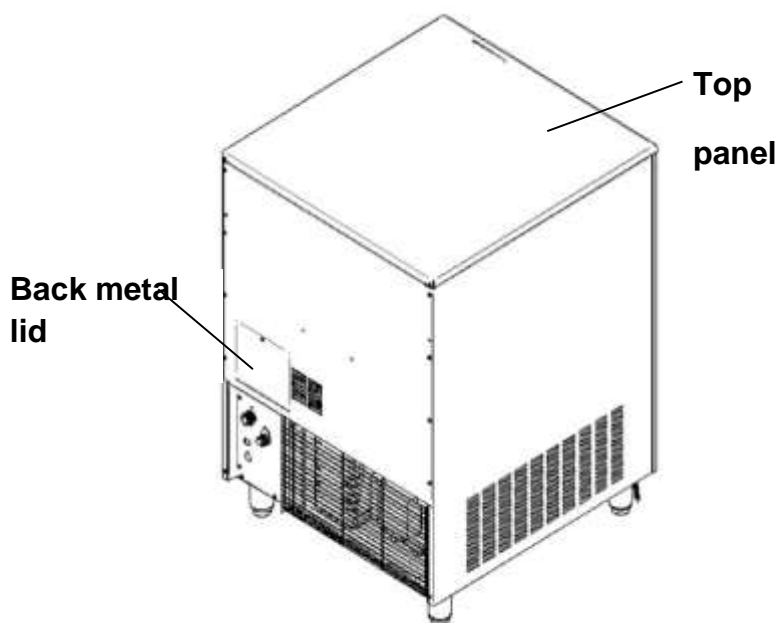
WARNING: Unit should always be disconnected during maintenance/cleaning procedures.

6.1.- CLEANING WATER DISTRIBUTION SYSTEM FOR UNDER COUNTER MODELS (NG)

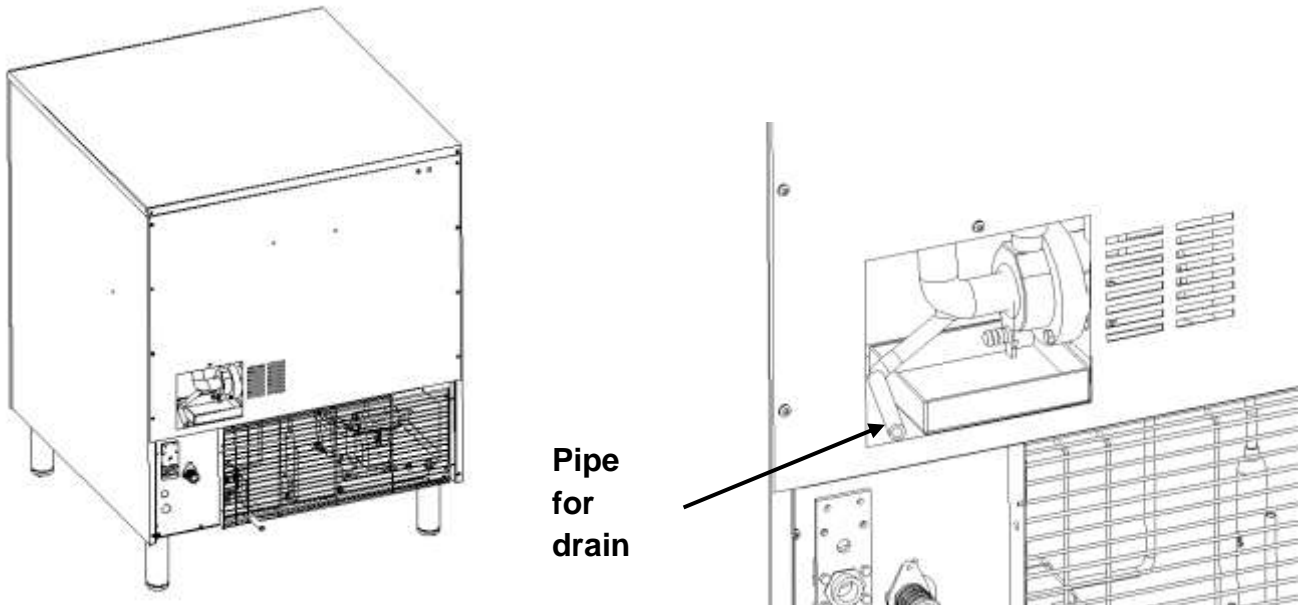
- a) Set the switch to the OFF position after ice falls from the evaporator at the end of a harvest cycle, or set the switch to the OFF position and allow the ice to melt off the evaporator.

CAUTION: Never use anything to force ice from the evaporator.

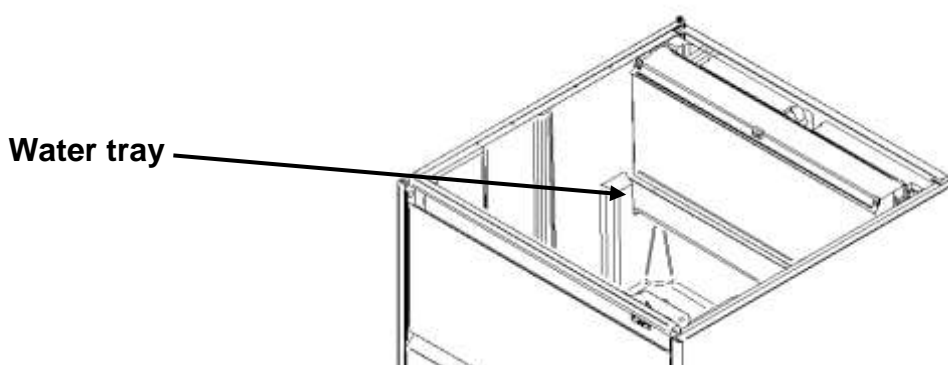
- b) Remove all ice from the bin.



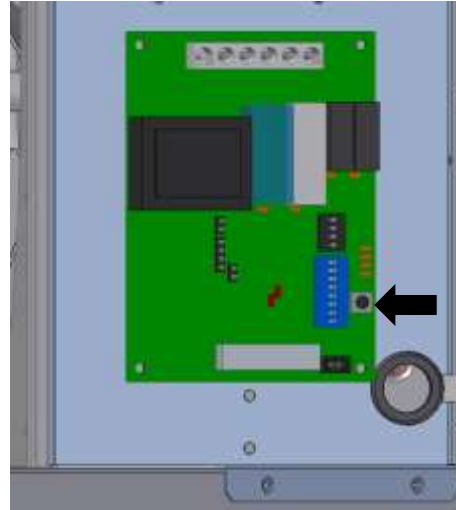
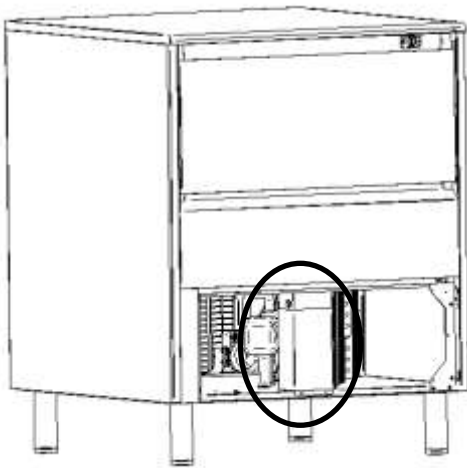
- c) Remove the back metal lid and the top panel (if it need be to make easier the cleaning operations).
- d) Remove the auxiliary pipe for drain operations near the pump and empty the water tray. Return it to their original position to avoid water spill.



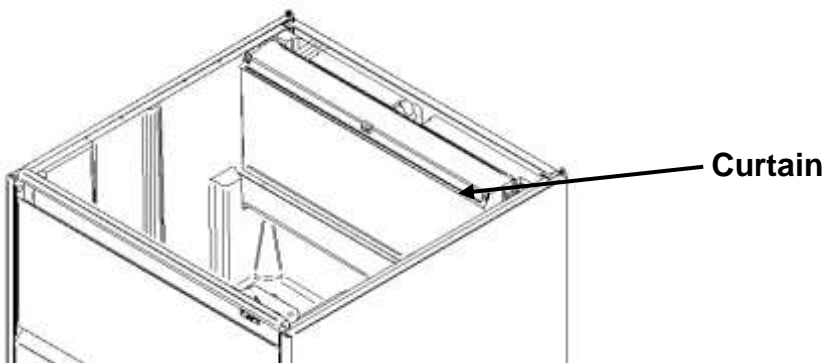
- e) Prepare a solution of an appropriate product for the cleaning of ice machines (lime). Do not use hydrochloric acid. We recommend the use of any NSF approved scale removal product prepared according to the manufacturer's instructions.
- f) Fill water tray with the solution



- g) Disconnect power. Turn on the machine pushing SW3 (see picture). Let solution stand for 30-40 minutes and then switch off the machine. Disconnect power



- h) Disconnect power.
- i) Remove the auxiliary pipe to drain and purge out the ice machine scale remover and residue. Replace it.
- j) Mix enough cleaning solution (as in point e) to clean parts and interior food zone surfaces.
- k) Remove curtain.



- l) Clean all surfaces of the curtain with the cleaner solution using a brush (not a wire brush) or cloth. Rinse all areas with water.
- m) Clean all the interior surfaces of the freezing compartment (including storage bin) with the cleaner solution using a brush or cloth. Rinse all areas with water.
- n) Mix a solution of sanitizer using approved (EPA/FDA) sodium hypochlorite food equipment sanitizer to form a solution with 100 - 200 ppm free chlorine yield. Below an example to calculate the proper quantity of sanitizer to add to the water, for a household bleach 12,5%:

$$\text{bleach to add} \Rightarrow \frac{15}{\%dis} = \frac{15}{12.5} = 1.2 \text{ gr/L} \rightarrow *0.133 = 0.16 \text{ oz/gal}$$

- o) Sanitize all surfaces of the curtain applying liberally the sanitizer solution using a cloth or sponge.
- p) Sanitize all the interior surfaces of the freezing compartment (including the storage bin) applying liberally sanitizer solution, using a cloth or sponge.
- q) Return curtain to its position.
- r) Connect power and water supplies.
- s) Fill water reservoir with the sanitizer solution.
- t) Turn on the machine pushing SW3 (see picture). Let solution stand for 20 minutes and then switch off the machine. Disconnect power
- u) Remove the auxiliary pipe to drain and purge out the sanitizer solution and residue. Replace it. Fill the water reservoir with water and switch on the machine to allow water to circulate for 5 minutes and then stop the machine. Repeat this operation two more times to rinse thoroughly.
- v) Remove the auxiliary hose to drain the water. Replace it and fill the tray with water to ensure the pump works properly.
- w) Return the back metal lid and the top panel to their position.
- x) Switch on machine and discard the first two harvests.

6.2.- CLEANING THE BINS

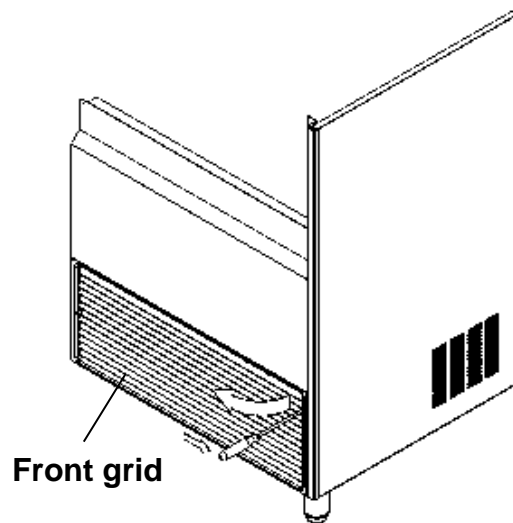
- 1) Disconnect the machine, close water faucet and empty storage bin of ice
- 2) Use the cleaner/water solution to clean all surfaces of the bin. Use a nylon brush or cloth. Then rinse all areas thoroughly with clean water.
- 3) Use the sanitizer/water solution to sanitize all surfaces of the bin. Use a nylon brush or cloth.
- 4) Rinse with plenty of water, dry, run the machine and open water faucet.

6.3.- CLEANING THE CONDENSER

AIR CONDENSER

- 1) Disconnect machine and close water faucet.

2) For undercounter models remove the front grid by pressing the two clips placed at right side (see figure).



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.

WATER CONDENSER

The water condenser may require cleaning due to scale build-up. The cleaning procedures require special pumps and cleaning solutions. They must be performed by qualified maintenance or service personnel.

6.4.- EXTERNAL CLEANING OF THE MACHINE

Clean the area around the ice machine as often as necessary to maintain cleanliness. Sponge any dust and dirt off the outside of the ice machine with mild soap and water. Wipe dry with a clean soft cloth. A commercial grade stainless steel cleaner/polish can be used as necessary.

6.5.- WATER LEAKAGE CHECKING

This must be done whenever maintenance is carried out on the machine: check all water connexions, braces, tubes and hoses in order to eliminate leaks and prevent breakages and flooding.

7 USER TROUBLESHOOTING GUIDE

7.1.- UNDERCOUNTER MODELS

| PROBLEM | PROBABLE CAUSE | SOLUTION |
|---|---|--|
| None of the electrical parts work. Front switch on but pilot is off | The machine is unplugged. | Plug in the machine and verify socket power |
| Front pilot on but none is working | Curtain not properly closed PCB alarm | Check curtain free movement and closed position Switch unit off-on. If continues see PCB alarms diagnosis in this table |
| No water in tray | Not incoming water Inlet strain at water valve blocked | Check water supply Check and clean |
| Ice slab empty or too thick | Not enough water time Desadjusted cycle time Desadjusted cycle cut temperature Tc | Increase water time. dip 5-7 (table xx) Adjust cycle timer dip 1-4 (table xx) Adjust dip 8 (ver punto xx) |
| Difficult to release ice slab at harvest | TXV bulb faulty contact Unit bad leveled (tilted to back) Dirty or scaled evaporator Not enough water time | check Level; down front Perform descaling procedure Increase water time. dip 5-7 (table xx) |
| Not uniform flow pattern at evaporator | Dirty or scaled distributor | Perform descaling procedure. Remove and clean distributor (pull from two clips at distributor sides) |
| PCB alarms. See point 4.1 | | |
| High pressure switch | Dirty condenser Defective fan Defective pressure switch | Clean condenser Check. Replace Check. Replace |
| NTC probe error | Defective probe Defective probe plug connection | Check. Replace Check |
| Ice cycle timeout | No frozen evaporator NTC probe faulty contact | Check compressor and refrigeration system Check probe fitting and insulation |
| Harvest cycle timeout | Ice slab not released No ice on evaporator Faulty curtain sensor | Faulty hot gas valve Bad leveled unit. check water time too short. Increase No water in tray. - check water supply - check water valve and strainer - check water leaks Faulty pump. Verify Check sensor and wiring |
| For further problems call aftersales service | | |

8 TECHNICAL DATA

WIRING DIAGRAM

To see the wiring diagram, please the following QR code or click the link:



<https://cutt.ly/XnuTrhg>

OTHER TECHNICAL INFORMATION

For more technical information scan the following QR code or click the link:



<https://cutt.ly/knuR3dQ>

- Specification sheets
- User manual
- Exploded views
- CAD / REVIT drawings
- Technical videos