



Full Cube – 12 gr Half Cube – 6 gr

NW(H) SERIES DICE & HALFDICE CUBERS

TECHNICAL SERVICE TRAINING

Welcome to another Scotsman Technical Service Presentation that
cover all NW models



NW(H) 308

Max. Ice production = 147 Kg/24h*

Max. Storage Bin Capacity

- NB 193 = 129 Kg

* 21/10°C = Air & Water Inlet Temperature



NW(H) 508

Max. Ice production = 215 Kg/24h*

Max. Storage Bin Capacity

- NB 193 = 129 Kg

* 21/10°C = Air & Water Inlet Temperature



NW(H) 458

Max. Ice production = 200 Kg/24h*

Max. Storage Bin Capacity

NB 393 = 178 Kg

NB 530 = 243 Kg

* 21/10°C = Air & Water Inlet Temperature



NW(H) 608

Max. Ice production = 280 Kg/24h*

Max. Storage Bin Capacity

NB 393 = 178 Kg

NB 530 = 243 Kg

* 21/10°C = Air & Water Inlet
Temperature



NW(H) 1008

Max. Ice production = 456 Kg/24h*

Max. Storage Bin Capacity

NB 530 = 243 Kg

NB 948 = 406 Kg

* 21/10°C = Air & Water Inlet
Temperature

TOPICS

On the next slides are shown the following steps by steps procedures:

- **UNPACKING**
- **INSTALLATION**
- **START UP AND OPERATIONAL CHECKS**
- **OPERATING PRINCIPLES and COMPONENTS**
- **MAINTENANCE**
- **SERVICE ANALYSIS**

UNPACKING

The machines are supplied in a carton box secured by two plastic strips to a wooden base. Check first the outside conditions of carton box and wooden base then cut the two plastic strips, remove the tape and then the carton box.



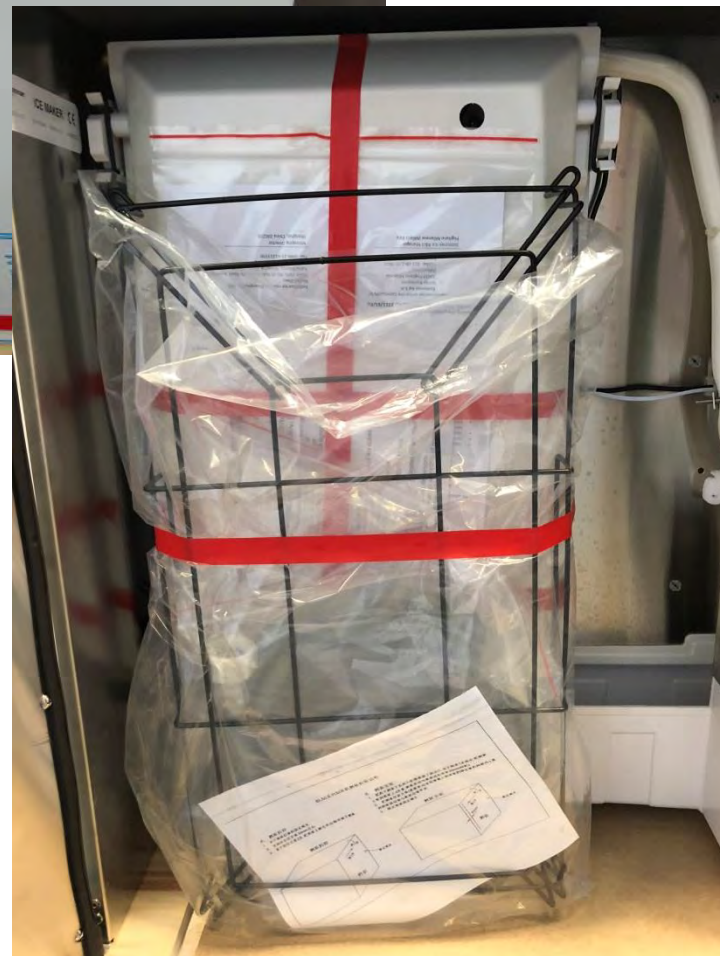
Visually inspect the exterior of the machine, then remove the front and both side panels, unscrews the two sides screws that secure the machine to the wooden base



Remove the water
inlet and outlet
hoses, the red
adhesive tapes and
the air baffle
deflector



NW308 and 508
are equipped with
a top grid



Remove the front
plastic deflector
and take out the
second red
adhesive tape
securing the ice
thickness sensor



The Modular NW machines require for the installation the use of a companion storage bin to store the ice produced.

Storage bins required:

- **NB193 with NW 308 - NW 508**
- **NB 393/530 with NW 458 - NW 608**
- **NB 530/948 with NW 1008**



Unpack the storage bin and visually inspect the exterior then remove from the inside the carton box containing the legs as well as the drain hose and the plastic scoop



INSTALLATION

Install the four
legs and their
adjusting leveling
nuts on the
bottom base as
well as the water
drain tube



... install on top of the
same the ice machine
and secure it with the
two sides screws.



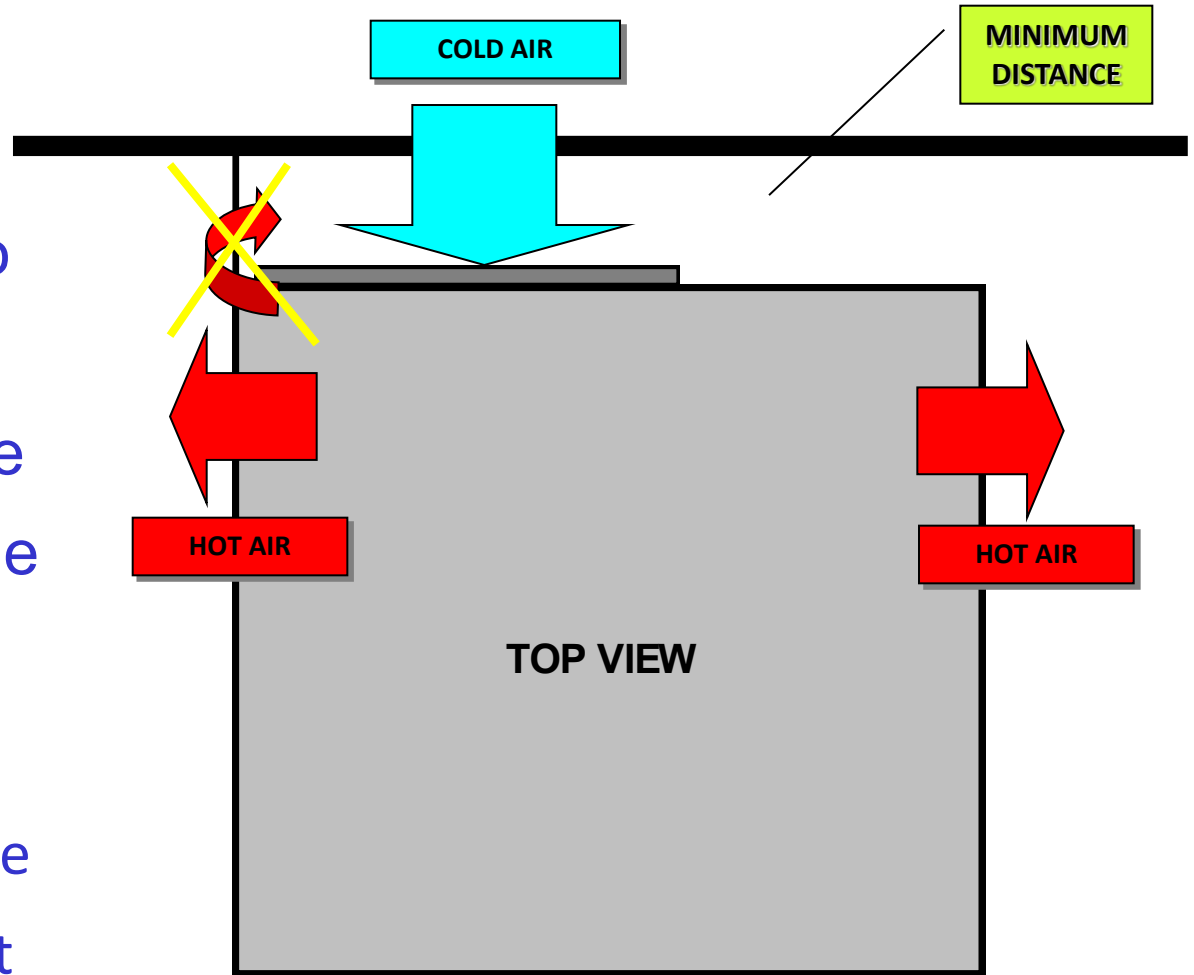
NW 458-608-1008

On air cooled version
unloose a little bit the
screws securing the air
cooled condenser to the
unit frame, then install the
metal plate (air baffle) on
the back side of the
machine



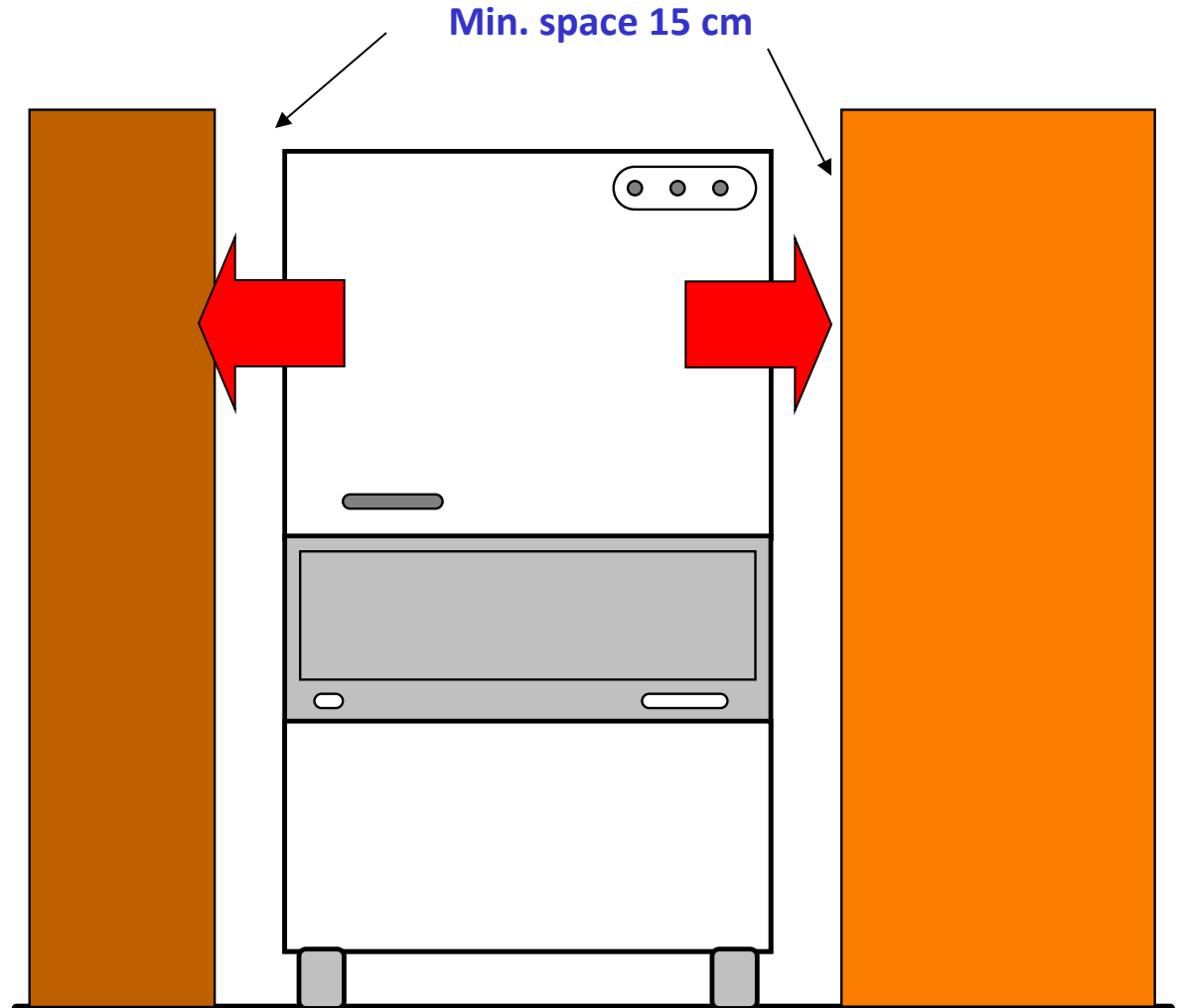
NW 458-608-1008

The installation of the metal plate (air separator) grants also a minimum distance between the back side of the machine and the wall so to assure a correct and adequate ventilation minimize the possible recycling of hot air through the rear panel



NW 458-608-1008

Adequate space must be left for proper water and electrical connections on the rear side of the machine and a minimum clearance of 15 cm on right side for best routing air.

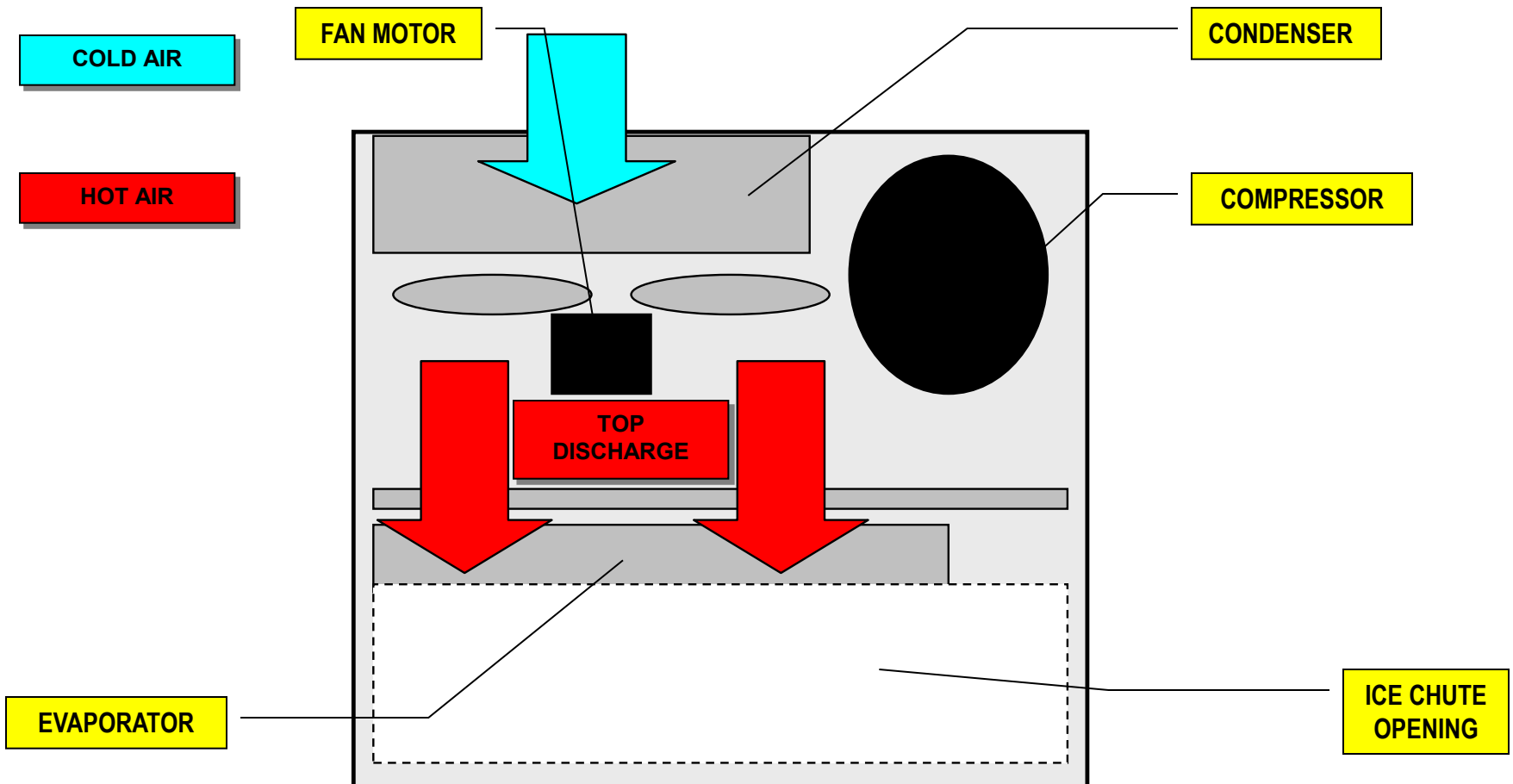


NW 308-508

... install the grids on
top panel



AIR CIRCULATION NW 308-508



NW 308-508 SPACE SAVING VERSION

Hot air exit from the top.

No need of side clearance from walls or other equipment.

Natural direction of hot air flow, from bottom to top.



Check the data plate of the machine located on the rear panel for correct voltage as well as for the proper wiring/fuse size.

Remember that all machines require a solid earth wire.



Check for the correct water and ambient conditions that should be:

- Min. ambient temperature 10°C (50F)
- Max. ambient temperature 40°C (100F)
- Min. water temperature 5°C (40F)
- Max. water temperature 35°C (90F)
- Min. water pressure 1 bar (14 PSI)
- Max. water pressure 5 bar (70 PSI)

Level the unit
on both
directions front
to rear and
right to left side
using the
adjustable legs
of the storage
bin



Install, on the cable supply with the machine, an adequate electrical plug according to the local standards and regulations.

Maximum voltage variation should be $\pm 10\%$.

Machine must be individually fuse protected.



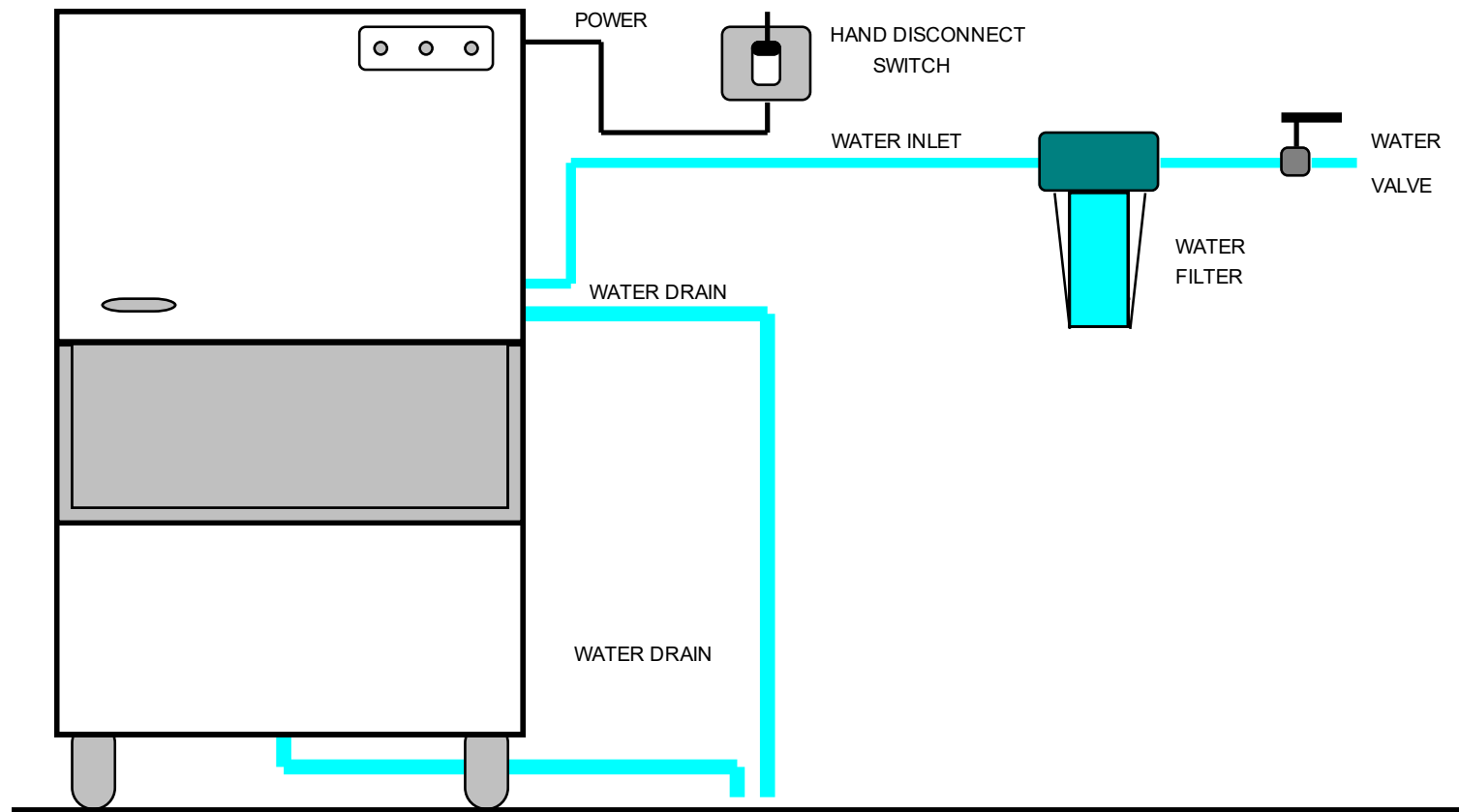
Connect the water inlet 3/4" male thread of the water inlet fitting to the water supply line by means of the rubber hose provided with machine.

Connect also the 20 mm O.D. fitting of the water drain with the flexible hose supply with the machine with its proper clamp.



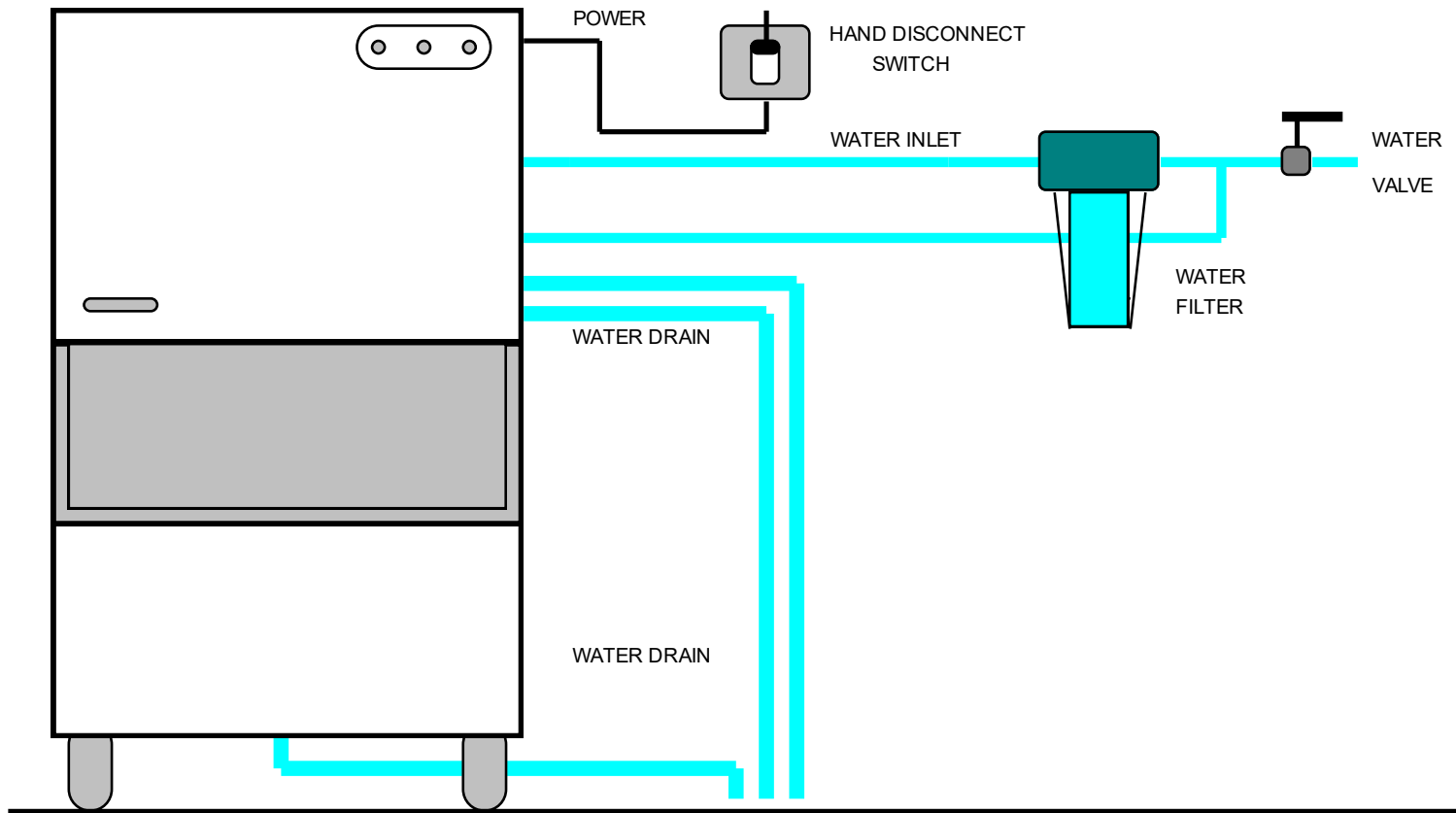
TYPICAL INSTALLATION

AIR COOLED



TYPICAL INSTALLATION

WATER COOLED

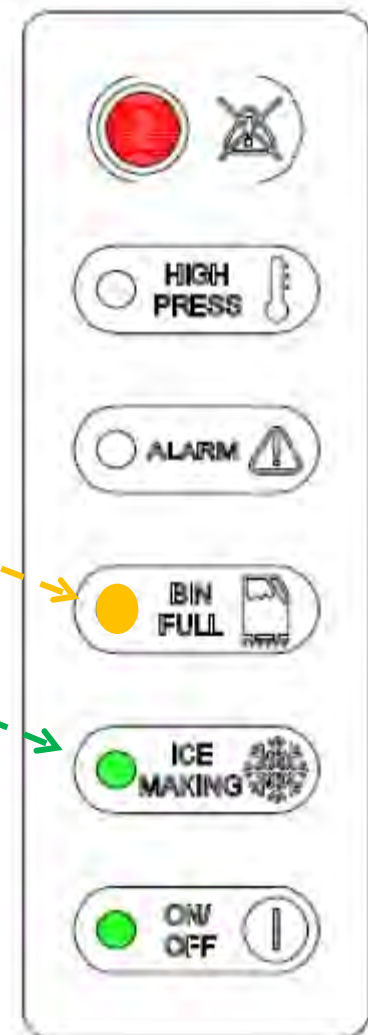


START UP AND OPERATIONAL CHECKS

Open the water tap/valve and switch ON the power on the electrical supply line.



The machine enters in the first part of Start-up (Automatic clean) cycle that is used to rinse the water reservoir with the LED of ICE MAKING and BIN FULL blinking for 2 minutes.

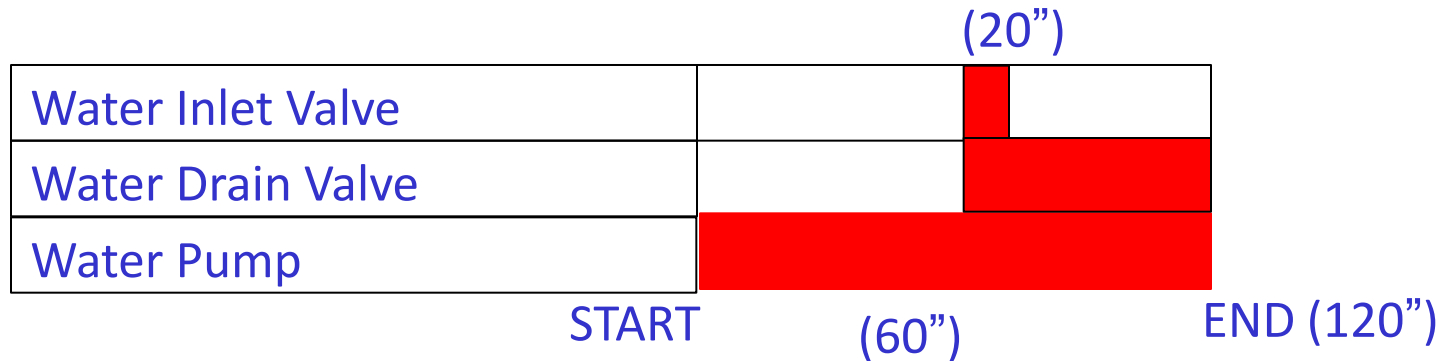


During these 2 minutes the components of water system work to purge and refill the water reservoir

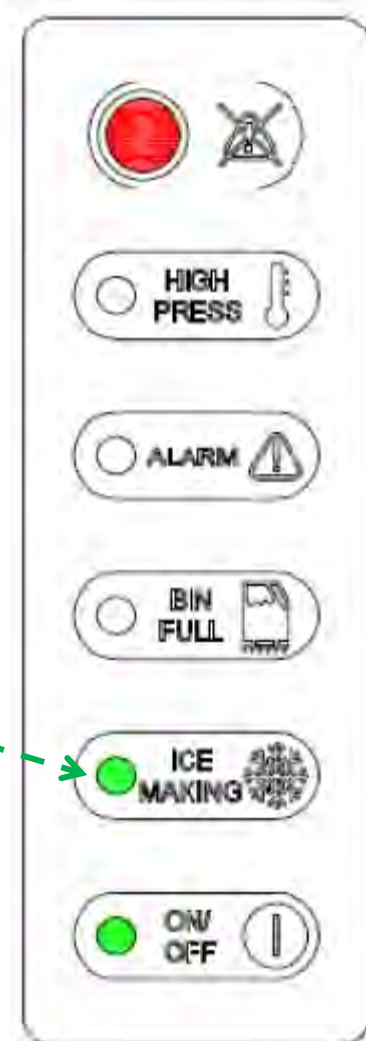
Water pump : 60"

Water pump + water inlet valve + drain valve : 20"

Water pump + water drain valve: 40"



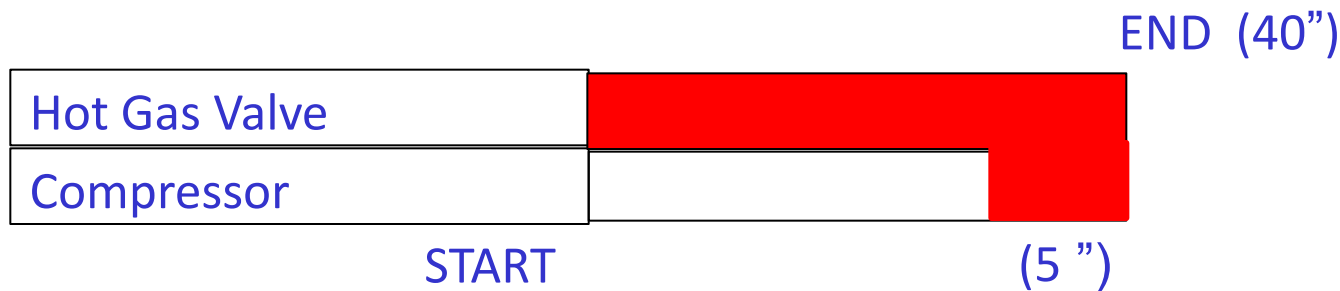
Once completed the first part of the Start-up cycle the machine enters in the pressure balance mode that takes 40 seconds, with the slow blinking of the second **Green LED** of making ICE



During the pressure balance mode the refrigerant pressure is checked with the following components in operation:

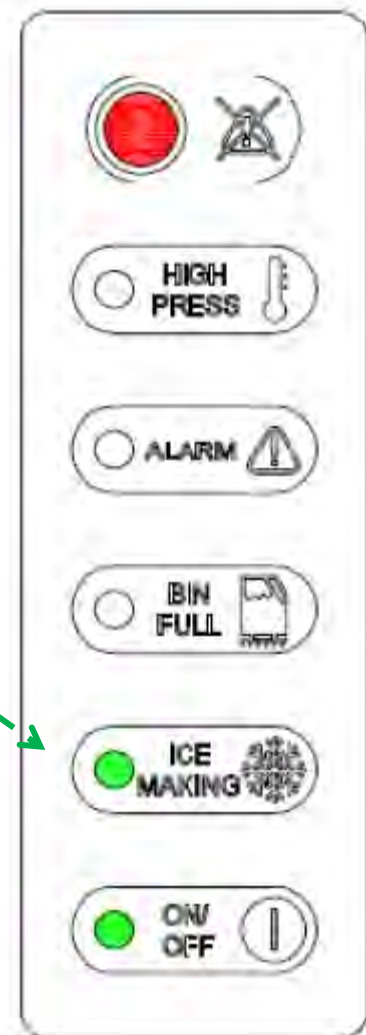
Hot gas valve: **35"**

Hot gas valve + compressor: last **5"**



Model **NW 1008 only** has a crankcase heater in the compressor. When the main power to the machine is switched ON, there is a time delay of 90 minutes during which only the compressor heater is energized with Green ICE Making LED Blinking slowly.

However, if the ambient temperature is higher than 25°C , the PC Board will automatically bypass this delay.



This delay can also be by-passed
pressing the switch located
on the rear panel of the
machine. Once the delay is
elapsed the machine enters
in Start-up cycle doing water
reservoir rinse and pressure
balance

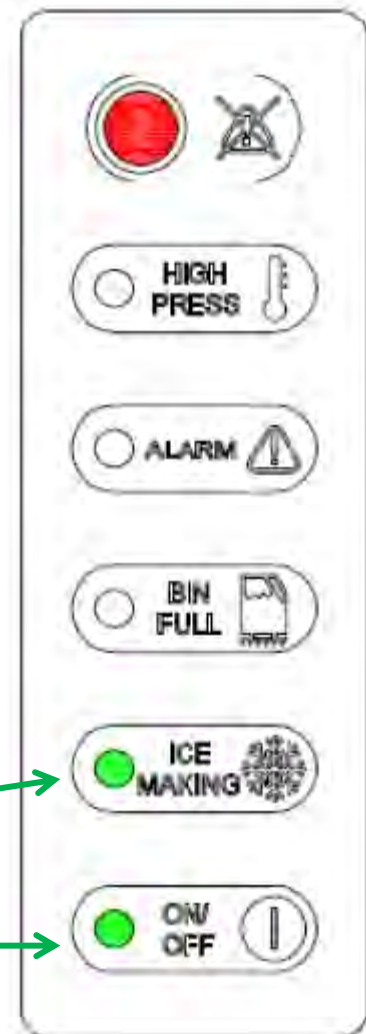


After the start up cycle the machine enters directly into the FREEZING CYCLE with the following components energized:

- Water Inlet valve
- Compressor
- Fan motor

The LED energized are:

- ICE MAKING (steady)
- ON/OFF (steady)



- Water is coming into the water through the Water Inlet Solenoid Valve till the water reservoir is filled up to the maximum level controlled by a water level sensor.
- The Water Pump starts up 40 seconds later.
- After few minutes (3-5) from the start up of the freezing cycle, the Water Inlet Solenoid Valve is activated again for few seconds to refill the water reservoir up to the maximum level so to reduce any possibility of slush ice formation.



The fan motor works in continuous mode for 3 minutes at the beginning of the freezing cycle

In the meantime the condenser sensor starts

to transmit the current to the PC Board to

keep in operation the Fan Motor in ON-OFF

mode or continuously

- If the condensing temperature is higher than 35°C , the fan motor works continuously
- If the condensing temperature is lower than 35°C the fan motor works in ON/OFF mode

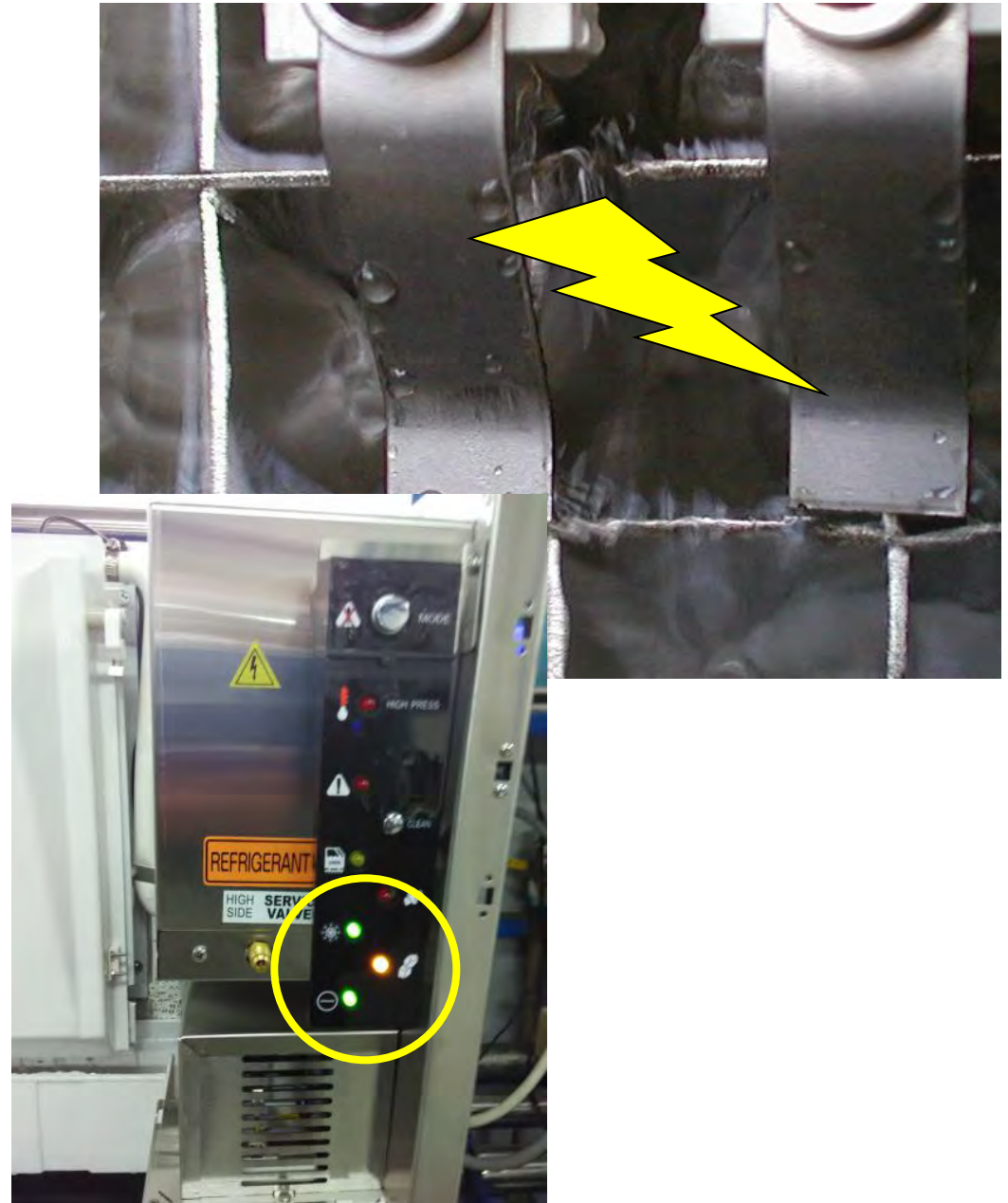


The machine remains in the freezing cycle with ice become thicker, till the metal plate of the ice thickness sensor are covered by the water cascading down through the front surface of the ice plate.



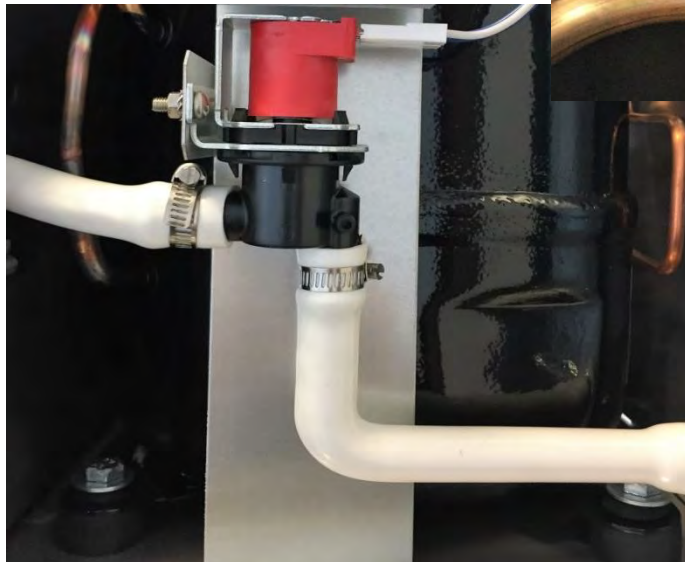
When the power is transmitted back continuously to the PC Board through the metal plate of the ice thickness sensor for more than 6 seconds, machine enters in the harvest cycle .

POWER , OPERATION and HARVEST lights are on steady



During the harvest cycle the components in operation are:

- **Hot Gas Valve**
- **Water Drain valve**



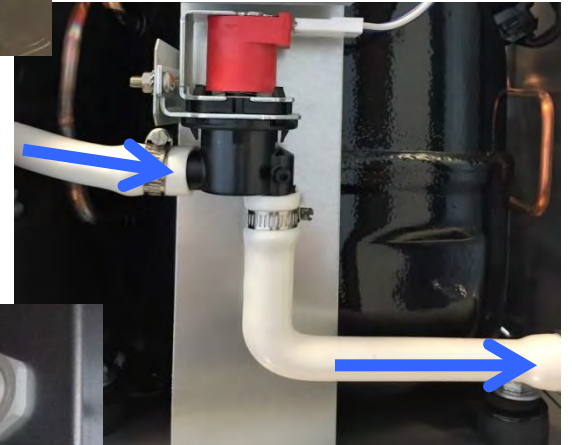
During the harvest cycle the components in operation are:

- **Water pump (according with DIP SWITCH n. 6 – 7)**
- **Compressor**

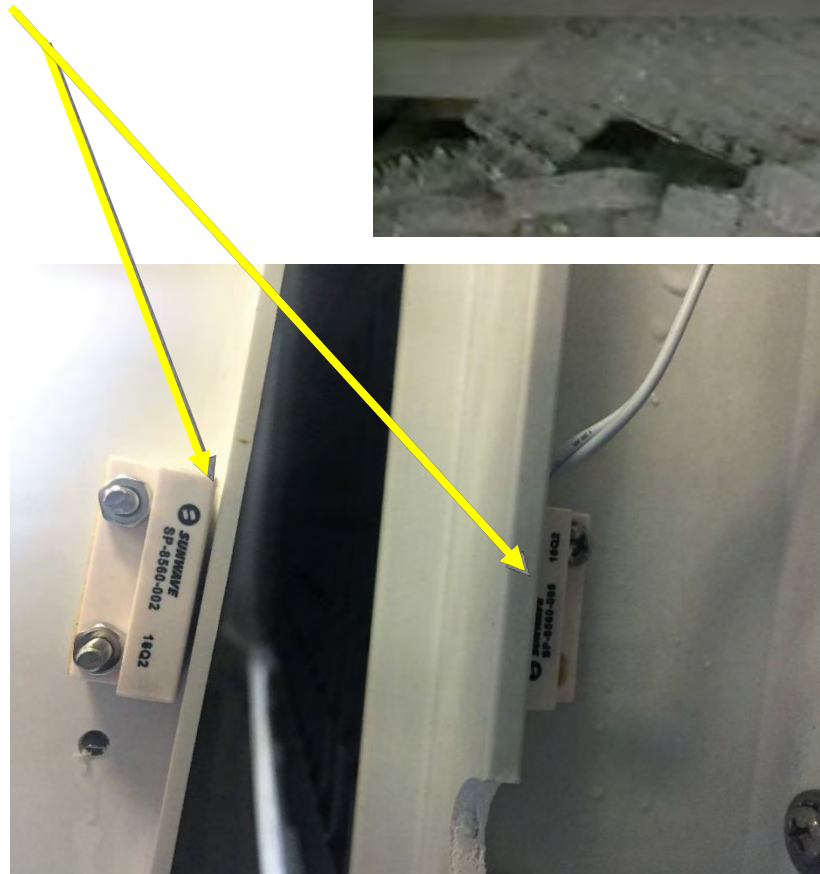


When the Harvest Cycle starts ,
Drain Valve and Water Pumps
purge out old water for a pre-set
time according with Dip-SWITCH
n.6-7.

After 20" of operation of Water
Drain Valve also the Water inlet
Valve will be activated for 10" in
order to have a short flush of
fresh water into the water sump
while the Water Pump and Drain
Valve are still in operation.



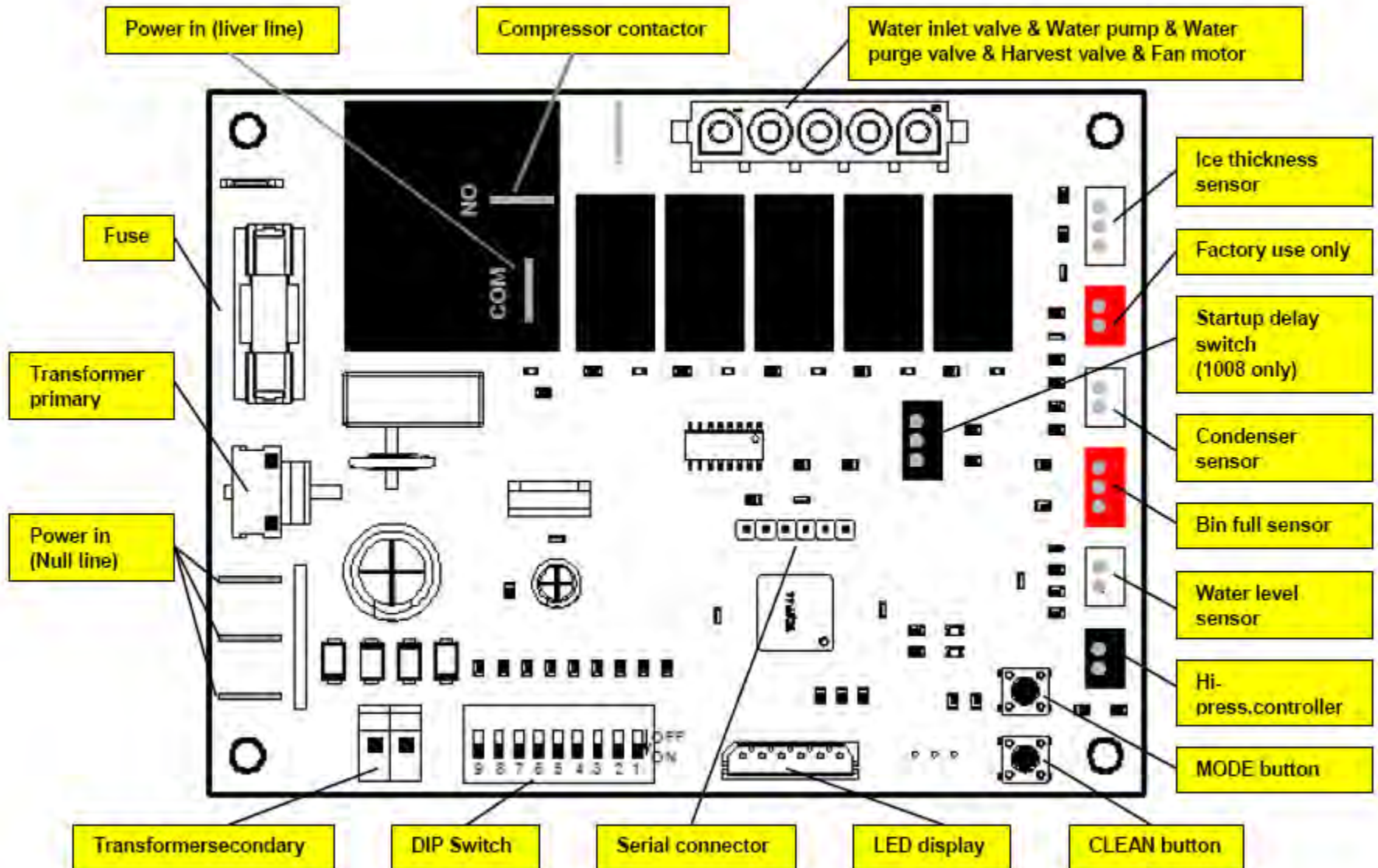
While the ice plate is falling down, it moves the front plastic cover out from the evaporator causing the activation of the magnetic switch to restart a new freezing cycle.



When the last ice plate discharged from the evaporator, the plastic deflector cover keeps in open position for **30"** . The ice full sensor transmit the signal to the PC Board, all the components stop working, and the **BIN FULL light is on steady**. The next freezing cycle will start three minutes later after the plastic deflector is closed.



PC BOARD



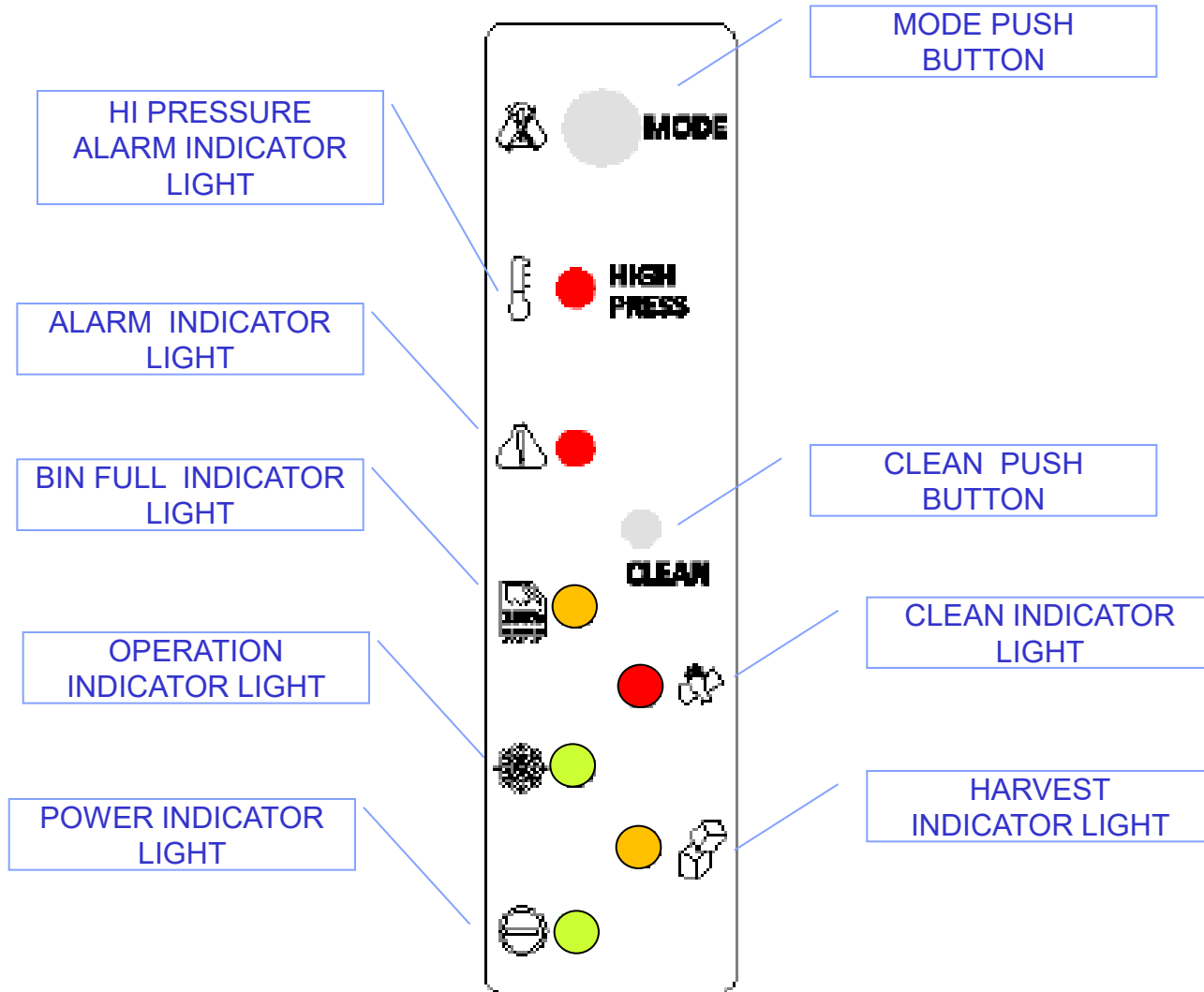
MONITOR PANEL

It is located on the upper right side behind the front panel the monitor panel

It is composed by two push button (MODE and CLEAN) and seven indicator/alarm lights



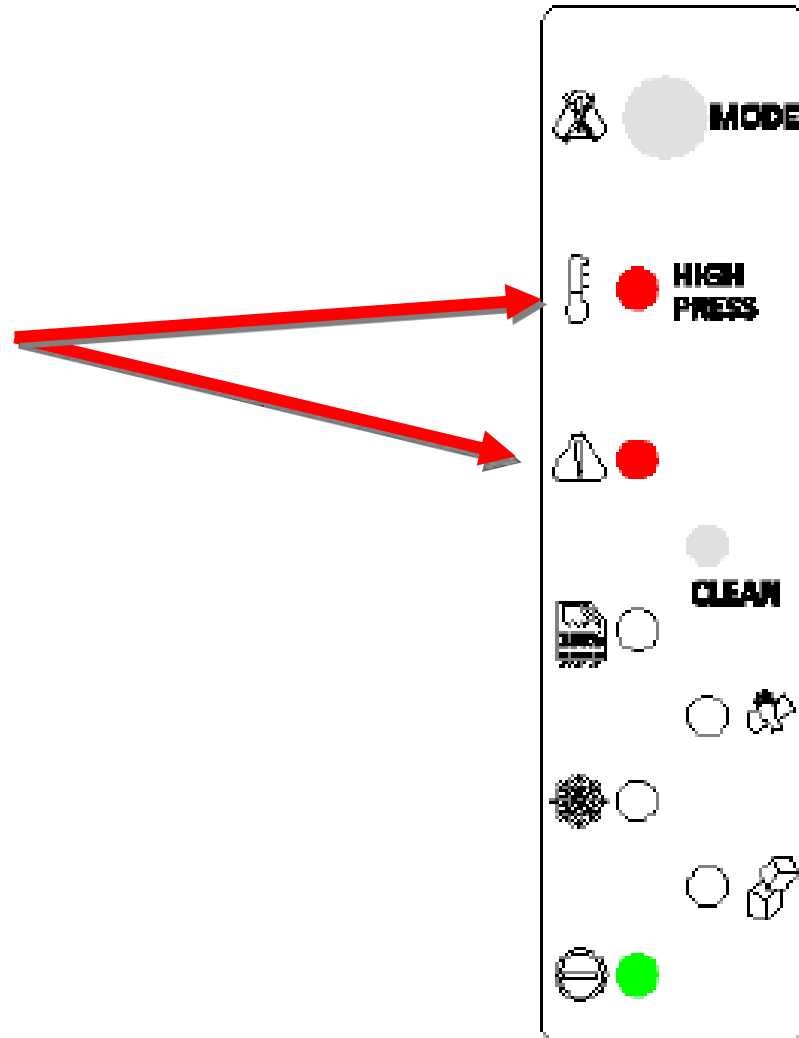
MONITOR PANEL



ALARM CONDITIONS

Both the last two **Red LED**
are **ON STEADY** :

CONDENSER SENSOR
OUT OF ORDER

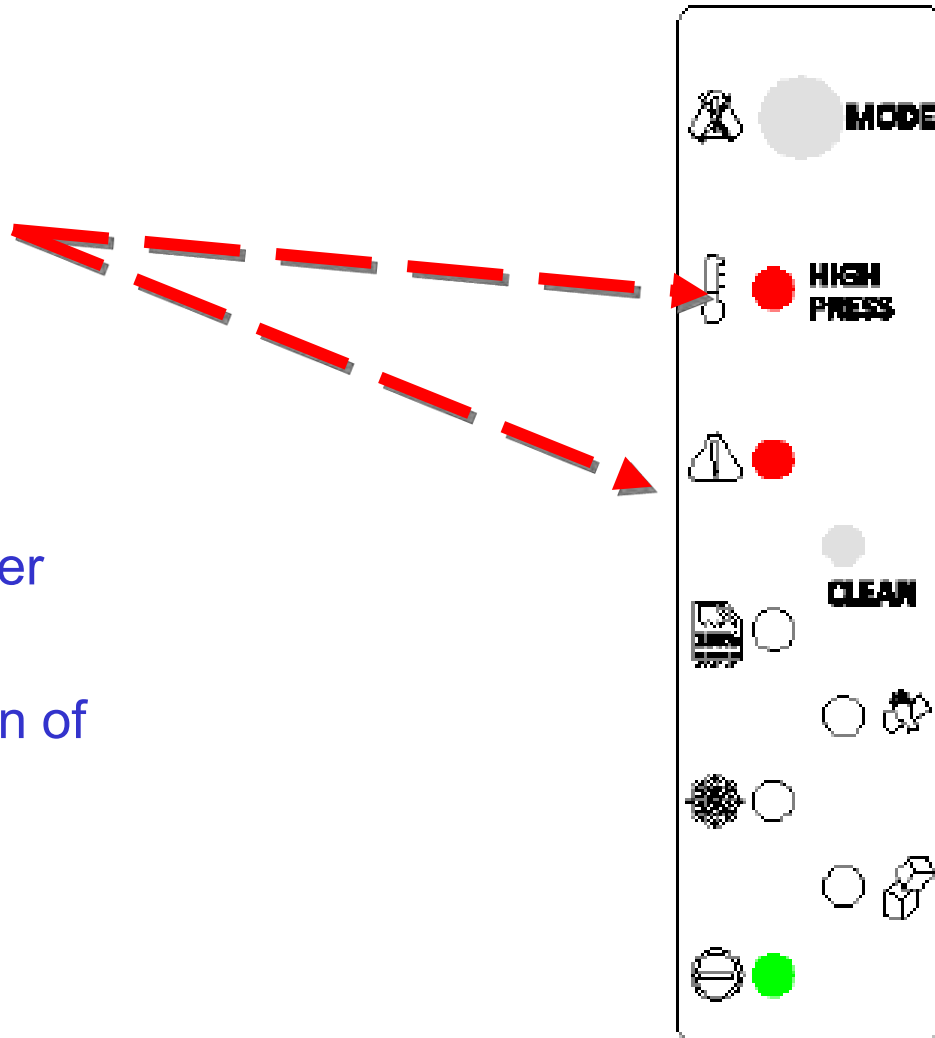


ALARM CONDITIONS

Both the last two **Red LED**
are **BLINKING SLOW**:

WATER ERROR

Water level inside the water
sump too low after 3 or 6
minutes from the activation of
the Water Inlet Valve
according with setting of
DIP SWITCH n.4



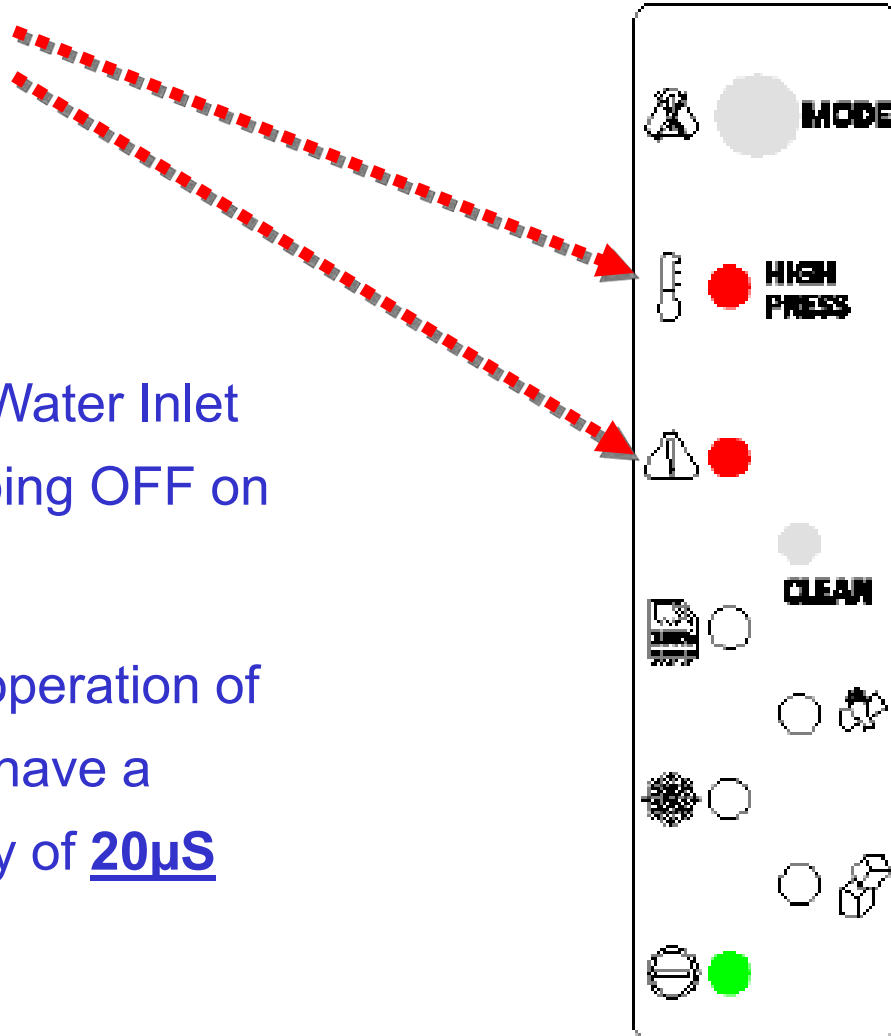
ALARM CONDITIONS

Both the last two **Red LED**
are **BLINKING FAST**:

RESET MODE

Charging water through the Water Inlet
Solenoid Valve after the tripping OFF on
WATER ERROR

NOTE = to assure a proper operation of
the machine the water must have a
minimum electric conductivity of 20µS



ALARM CONDITIONS

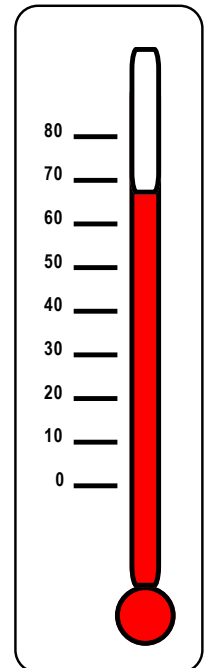
The Fourth **Red Led** is **BLINKING**

SLOW:

**TOO HI CONDENSING
TEMPERATURE**

The condenser sensor detected a
temperature **> 70°C**

Reset Mode: For the first two times,
machine will automatic reset , it will
stops when the alarm occurs the
third time. Press MODE button to
reset and go to start up cycle



ALARM CONDITIONS

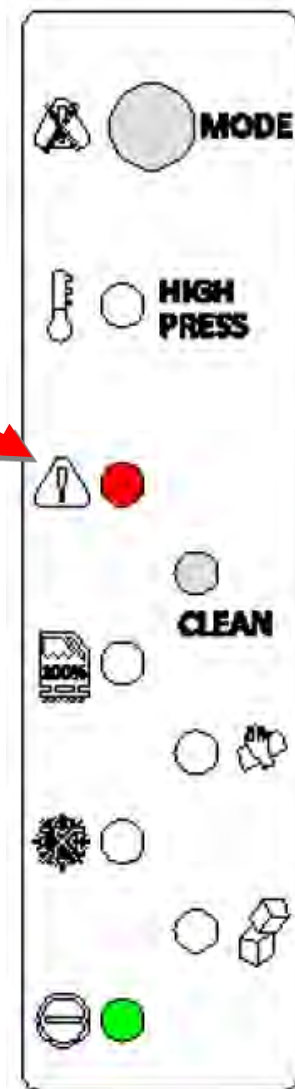
The Fourth **Red LED**

is **ON steady**:

3 TIMES TOO LONG HARVEST

CYCLE TIME (according with setting of
DIP SWITCH n.3)

Reset Mode: Press MODE button to
reset and go to start up cycle



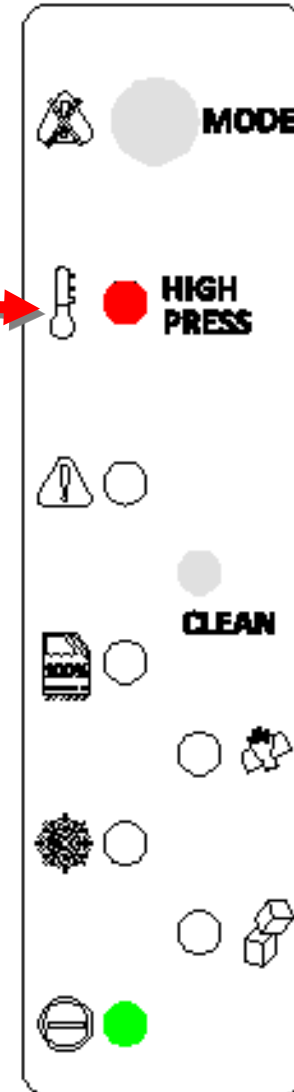
ALARM CONDITIONS

The Fifth **Red LED**

is **ON STEADY**:

TOO HI DISCHARGE PRESSURE
(MORE THAN 33 BAR / 460 PSI)

Reset Mode: Press **MODE** button to
reset and go to start up cycle



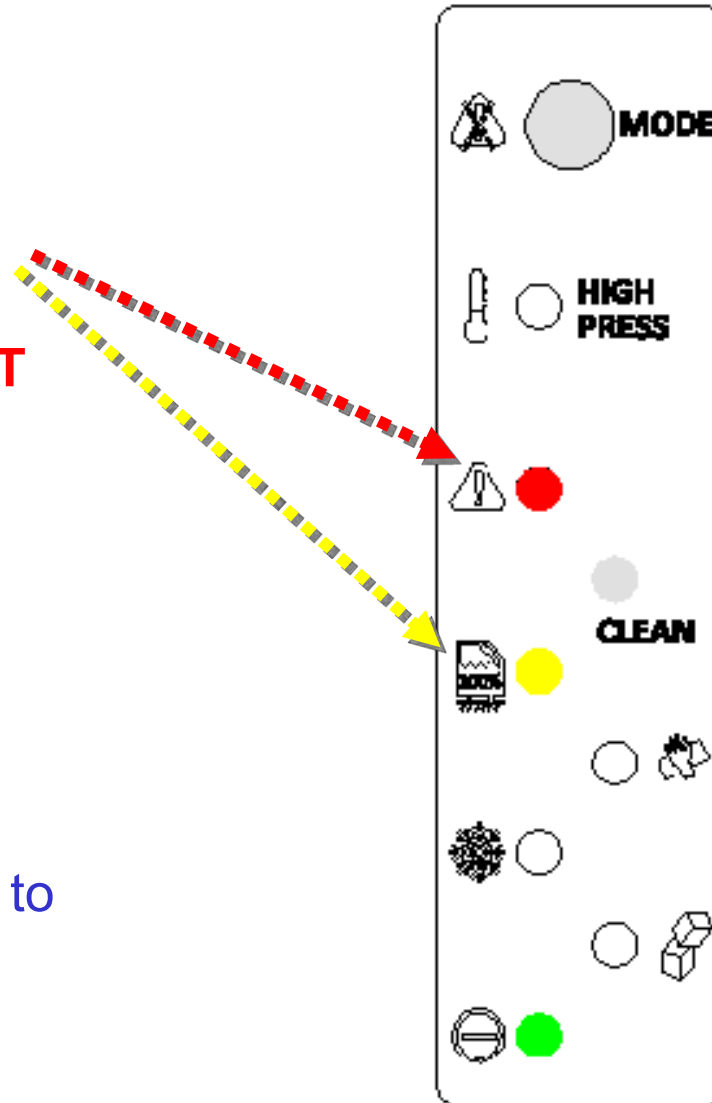
ALARM CONDITIONS

Both the third **YELLOW LED** and
fourth **Red LED** are blinking fast :

ICE THICKNESS SENSOR FAULT

When machine starts, if PC Board
detects the Ice Thickness ON
machine will stop

Reset Mode: Press MODE button to
reset and go to start up cycle



ALARM CONDITIONS

Whenever the machine remains in the Freezing Cycle for the Maximum time (30 or 40 minutes), the PC Board moves the unit directly into the Harvest Cycle.

ALARM CONDITIONS

The PC Board is also checking the maximum time of the freezing cycle that changes according to the operation of the fan motor during the freezing cycle (room temperature):

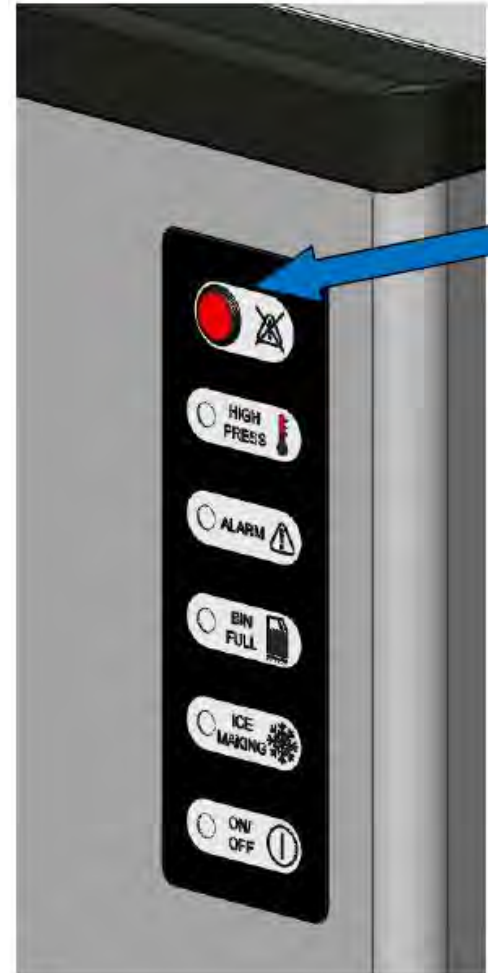
- **Fan motor in ON-OFF mode: Max. freezing cycle length equal to 30'**
- **Fan motor ON all the time: Max. freezing cycle length equal to 40'**

PC BOARD SETTING

MODE BUTTON FUNCTION

- To restart the machine is necessary press the MODE button.
- When machine is working, press MODE button to go to next process as follow:

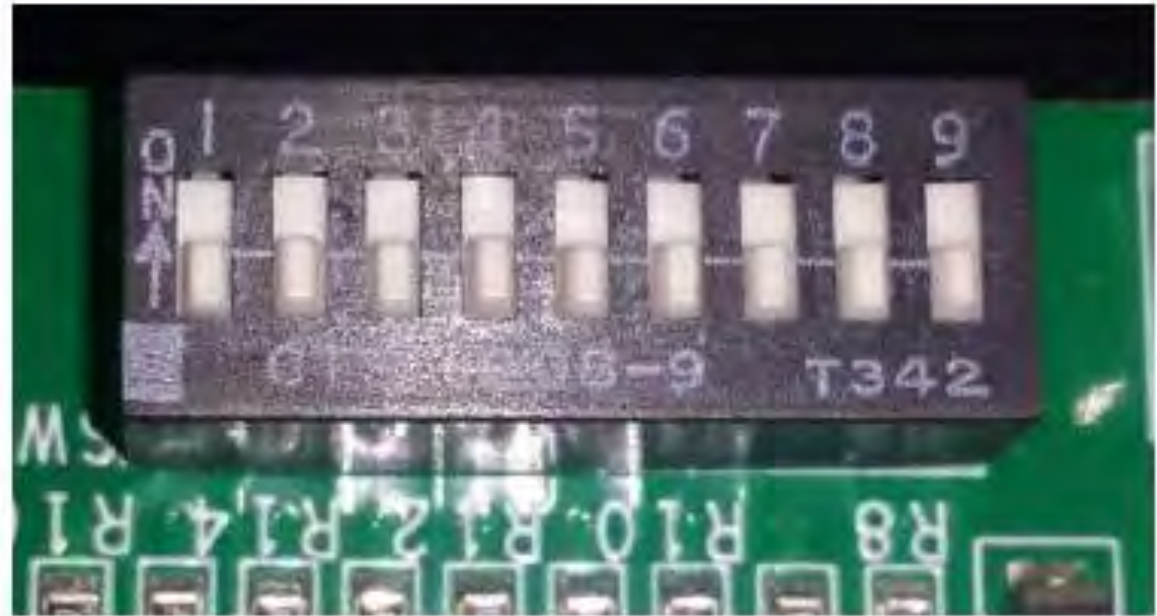
Start → Automatic Clean → Pressure
Balance → Freezing → Harvest → Bin
Full



PC BOARD SETTING

Default Factory setting :

All Dip-Switches OFF

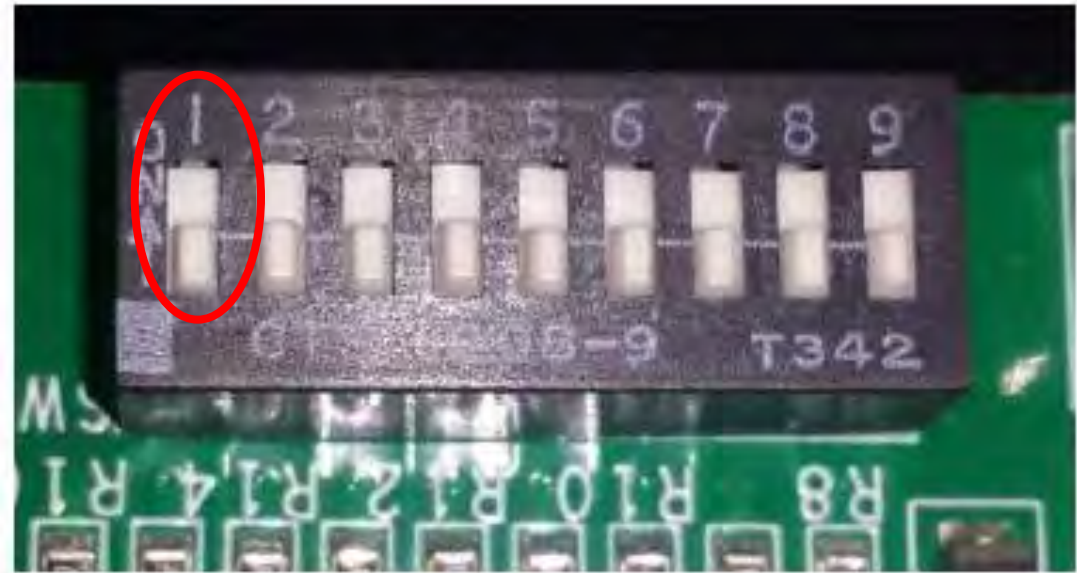


PC BOARD SETTING

DIP-SWITCH n. 1

OFF = Used on NW Series

ON = Factory use only



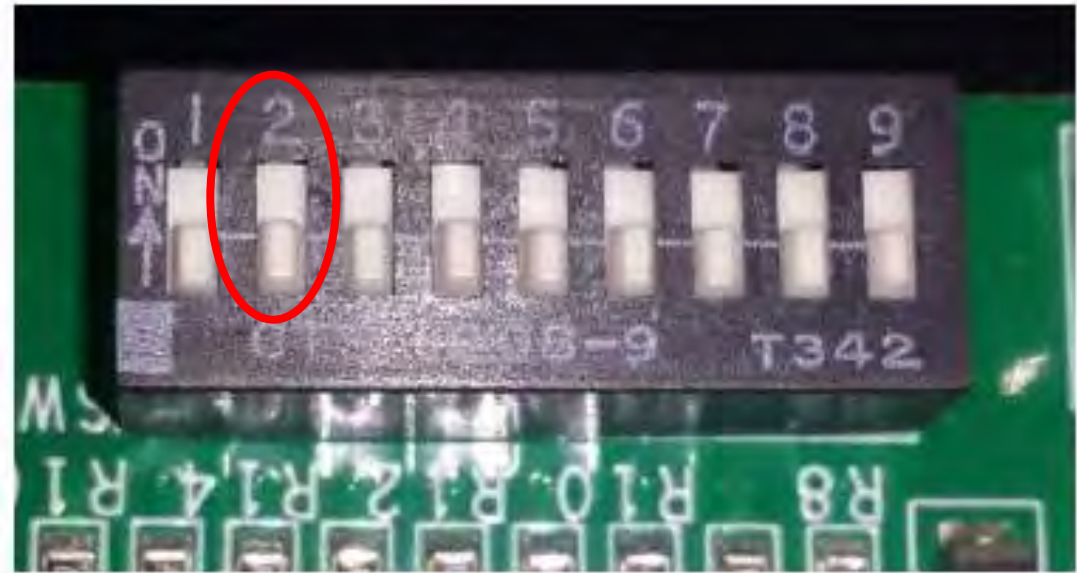
PC BOARD SETTING

DIP-SWITCH n. 2

OFF = No start-up time delay

ON = 90' start-up time delay

(Used on NW 1008 only)



PC BOARD SETTING

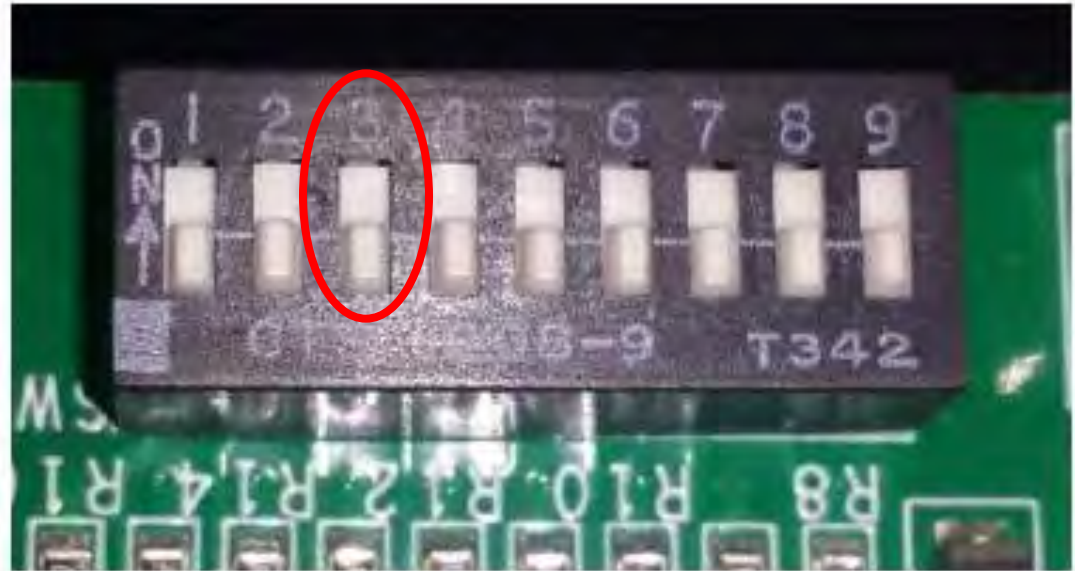
DIP-SWITCH n. 3

OFF = 3' and 30" Max.

Harvest Time

ON = 6' max. Max.

Harvest Time

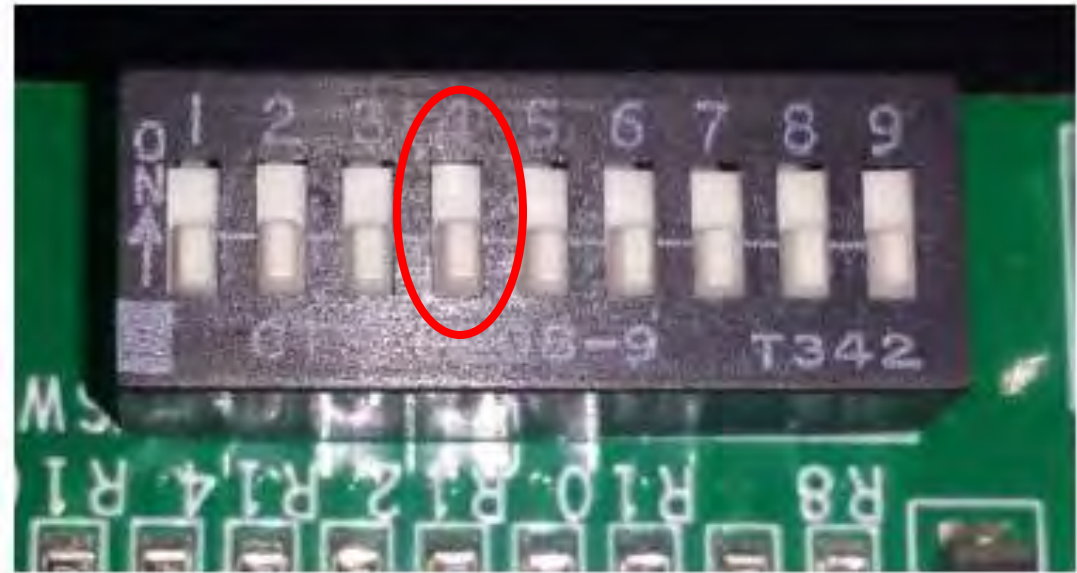


PC BOARD SETTING

DIP-SWITCH n. 4

OFF = 3' and 30" Water fill time

ON = 6' water fill time

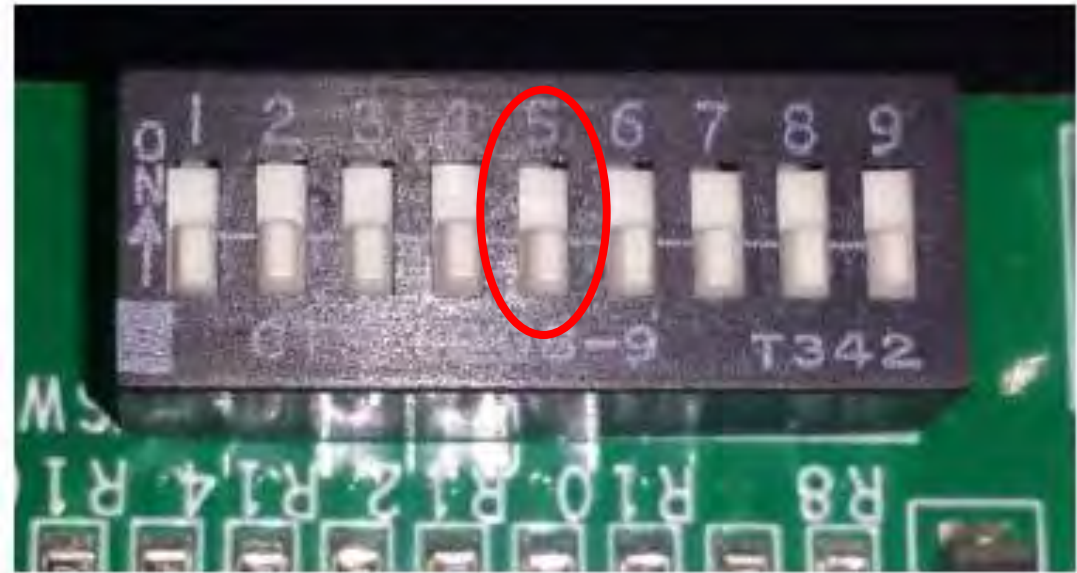


PC BOARD SETTING

DIP-SWITCH n. 5

OFF = Fill water in first 4' in
freezing cycle

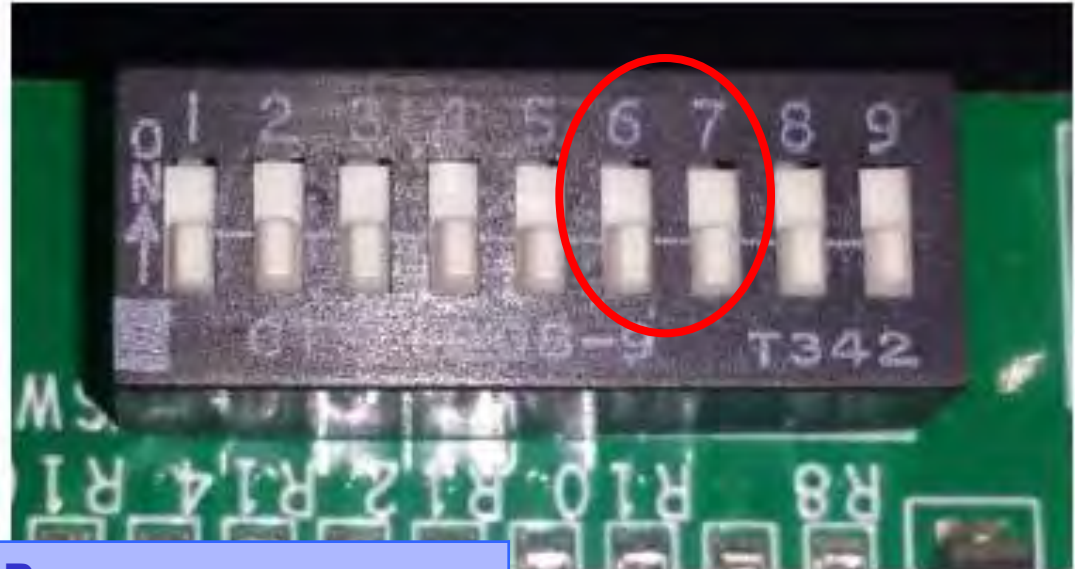
ON = Fill water in first 10' in
freezing cycle



PC BOARD SETTING

DIP-SWITCH n. 6 - 7

Purge water control



DIP n. 6	DIP n. 7	WATER PUMP
OFF	OFF	Works for 30 seconds
ON	OFF	Works for 6 seconds and 30 seconds every six harvest cycles
OFF	ON	Works for 30 seconds every three harvest cycles
ON	ON	Works for 30 seconds every six cycles

PC BOARD SETTING

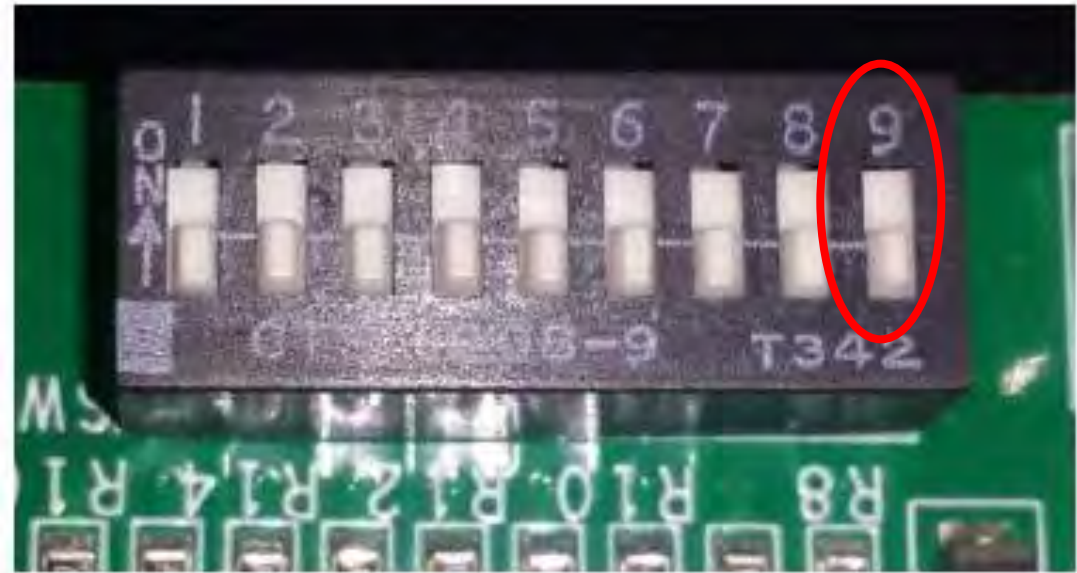
DIP-SWITCH n. 8

FACTORY USE ONLY

DIP-SWITCH n. 9

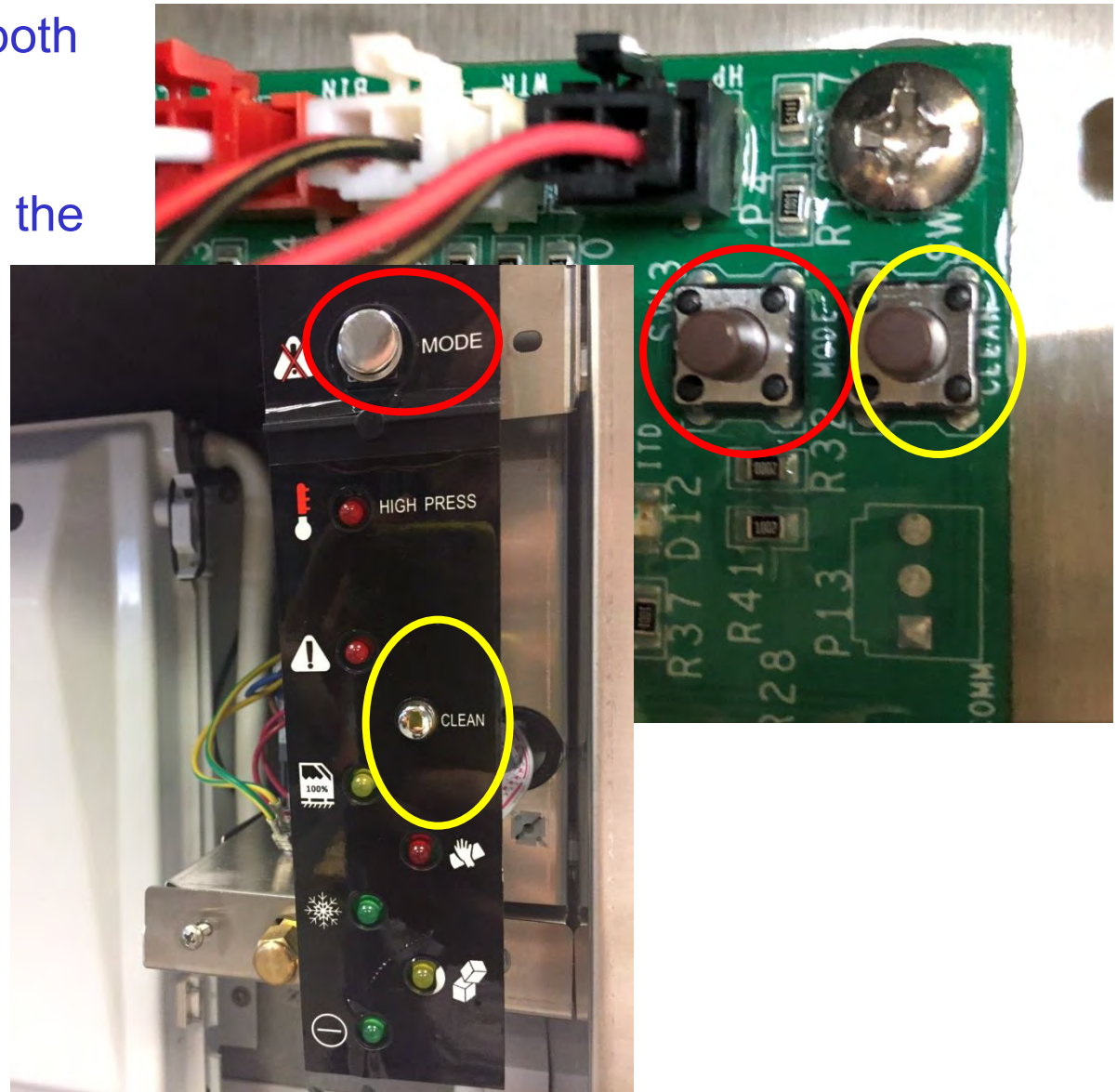
OFF = Machine will stop after
clean procedure, need to
press clean button to restart

ON = Machine will restart
automatically after clean
procedure



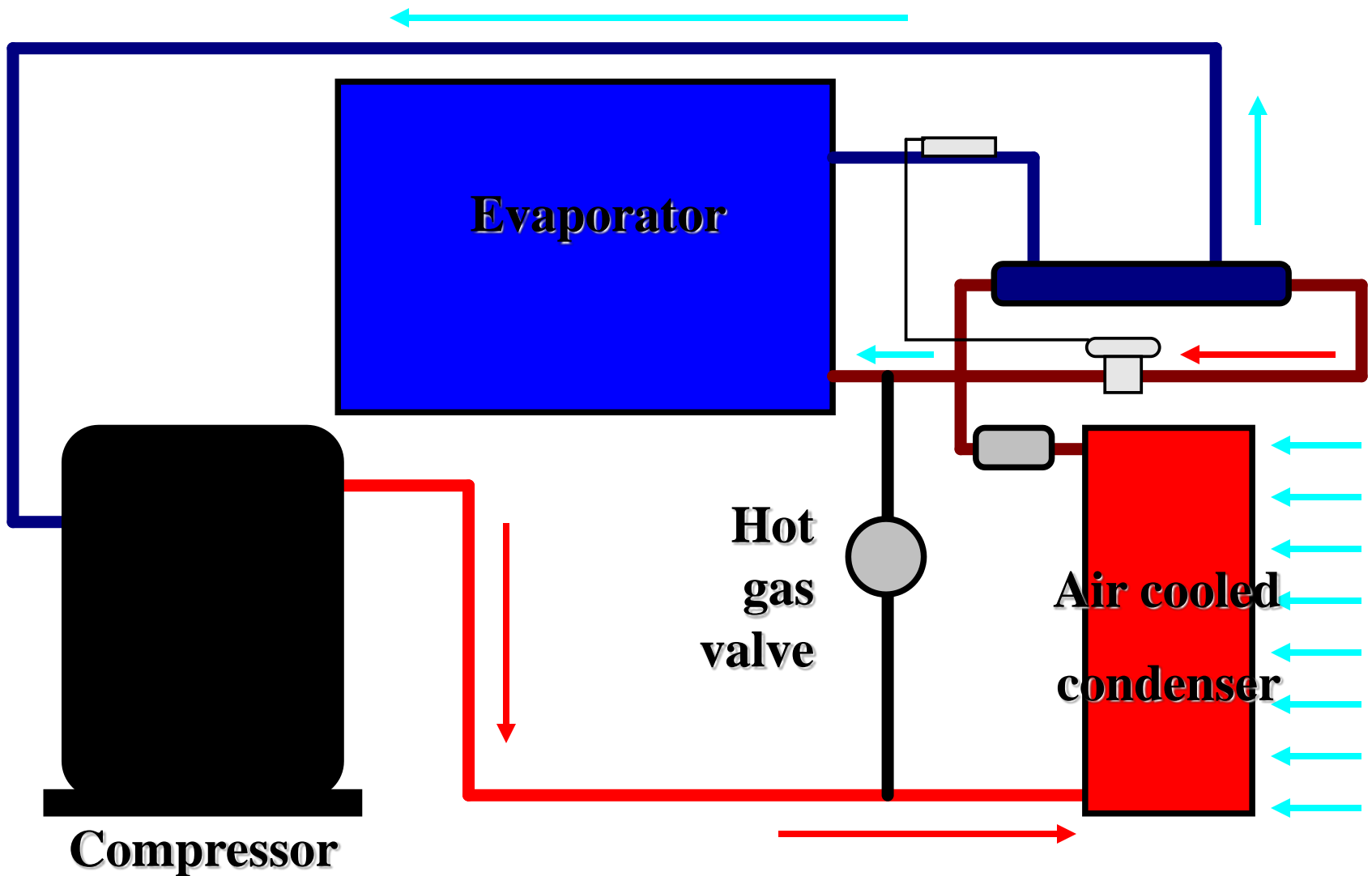
PC BOARD PUSH BUTTON

PC Board and display are both equipped with MODE and CLEAN push button having the same function

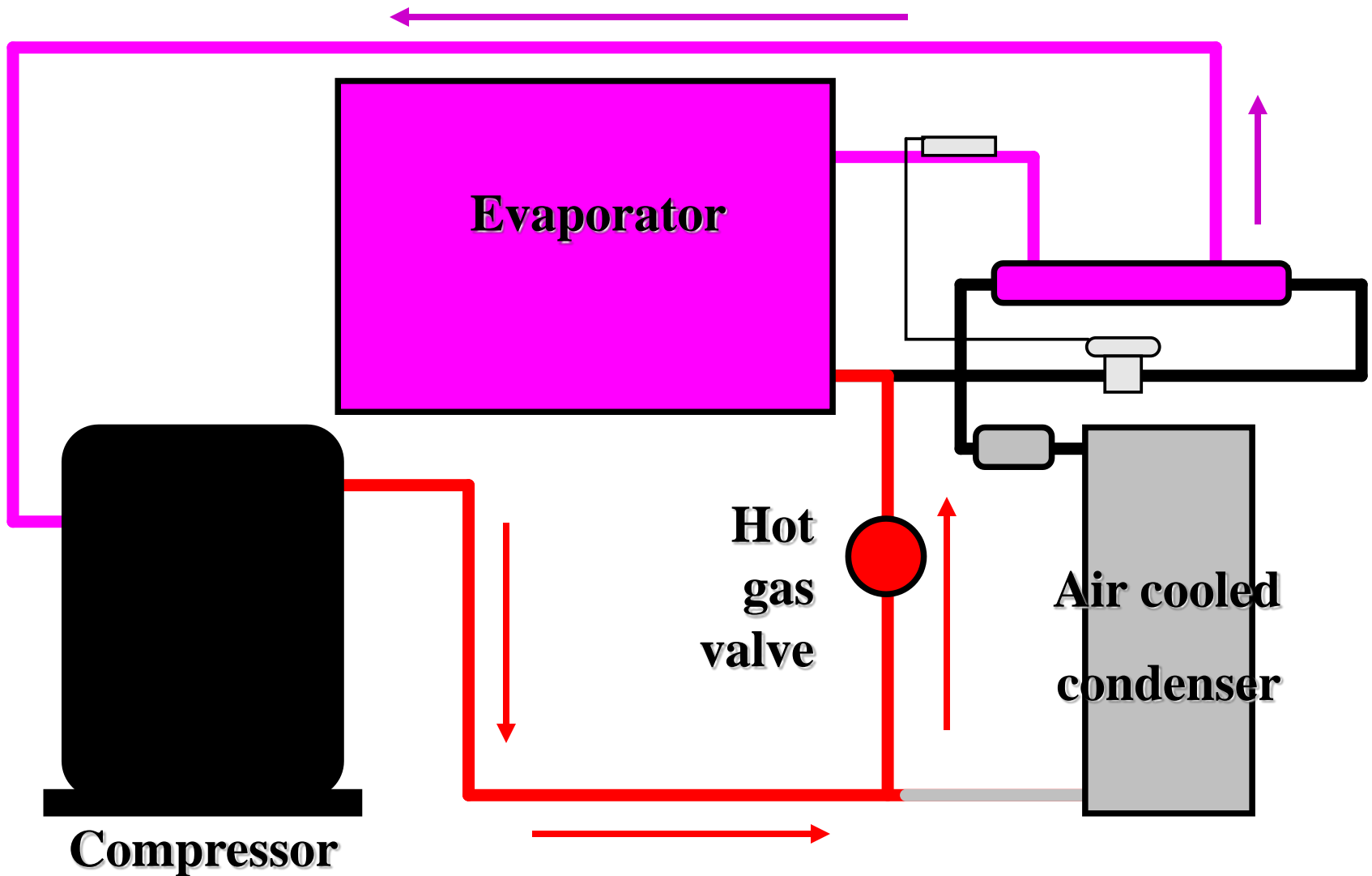


OPERATING PRINCIPLES and COMPONENTS

OPERATING PRINCIPLES - FREEZE

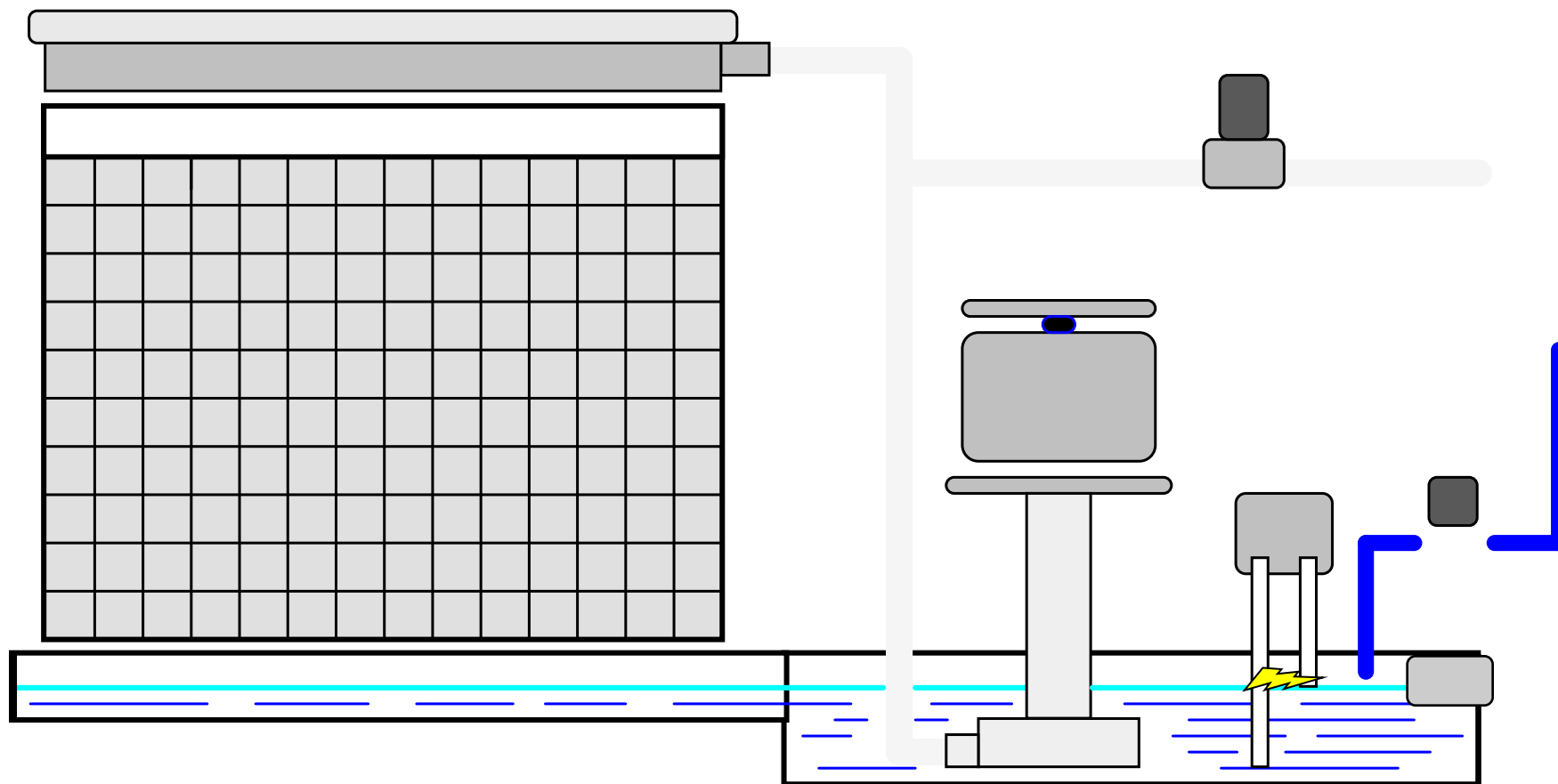


OPERATING PRINCIPLES - HARVEST



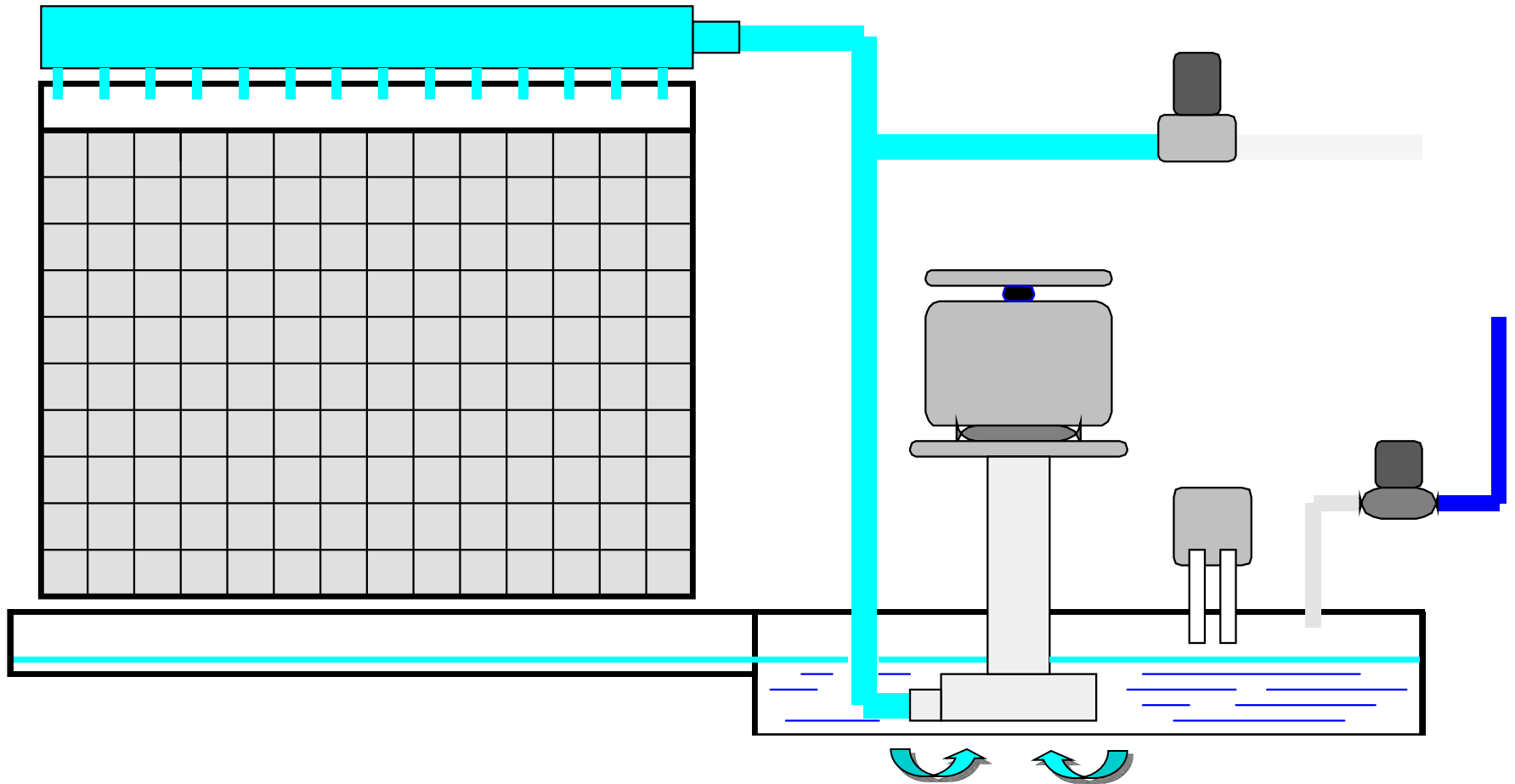
WATER SYSTEM – FREEZING CYCLE

1° PART – 40"



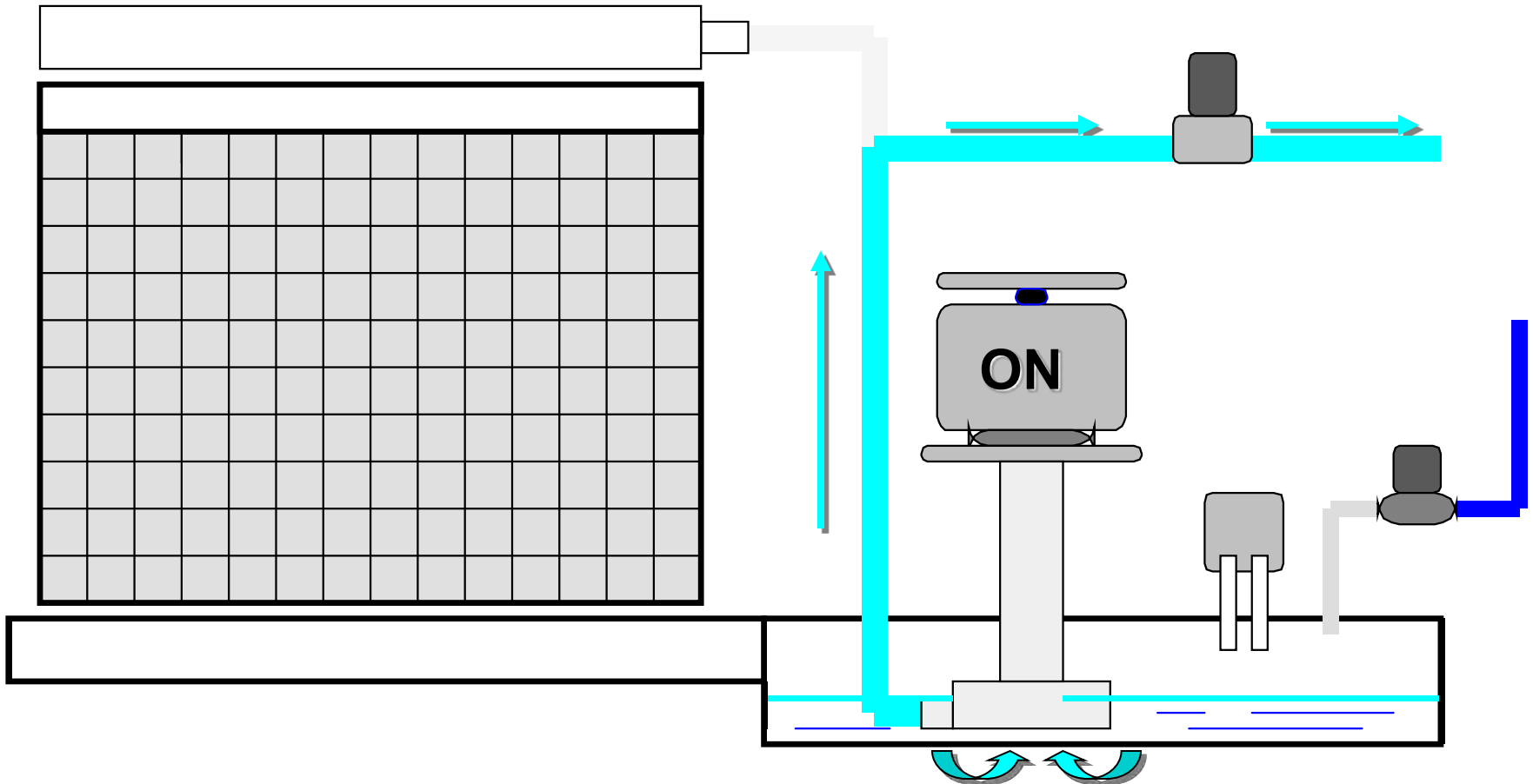
WATER SYSTEM – FREEZING CYCLE

2° PART



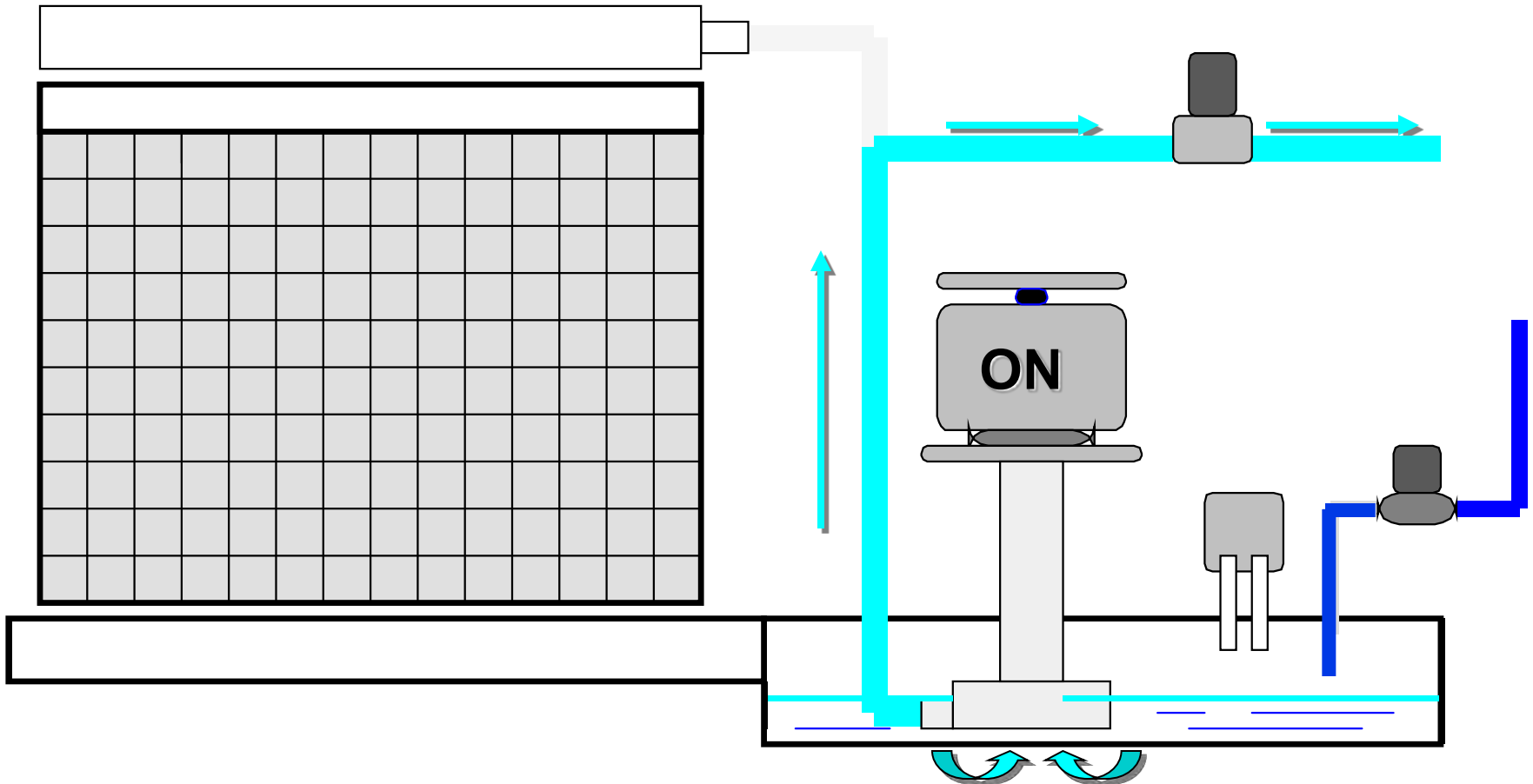
WATER SYSTEM – HARVEST CYCLE

First 20"



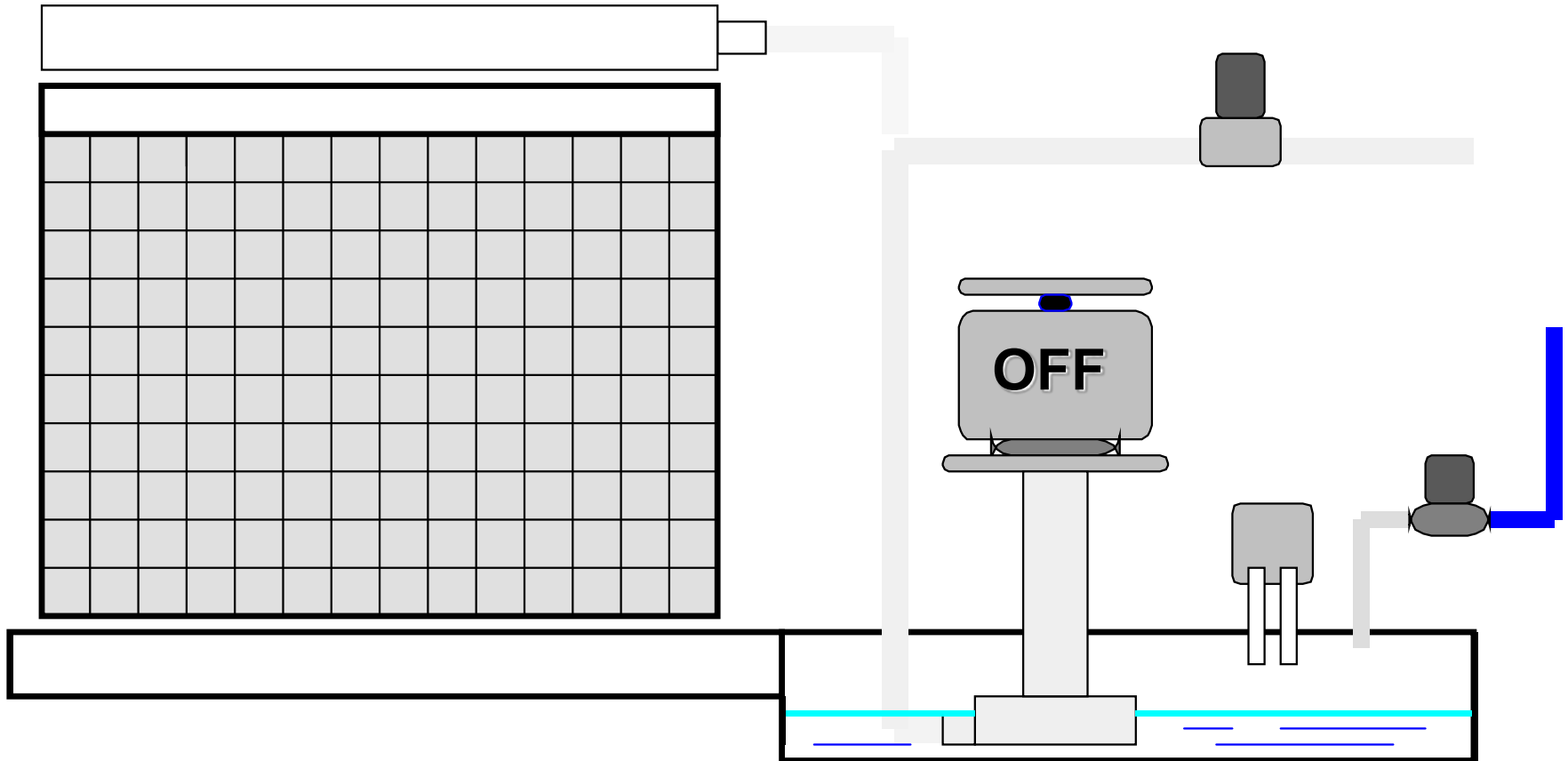
WATER SYSTEM – HARVEST CYCLE

From 20" up to 30"



WATER SYSTEM – HARVEST

From 30” up to the end of harvest cycle



COMPONENTS - REFRIGERANT SYSTEM

The components of the refrigerant system of the NW series are:

- **COMPRESSOR**



COMPONENTS - REFRIGERANT SYSTEM

- **CONDENSER**



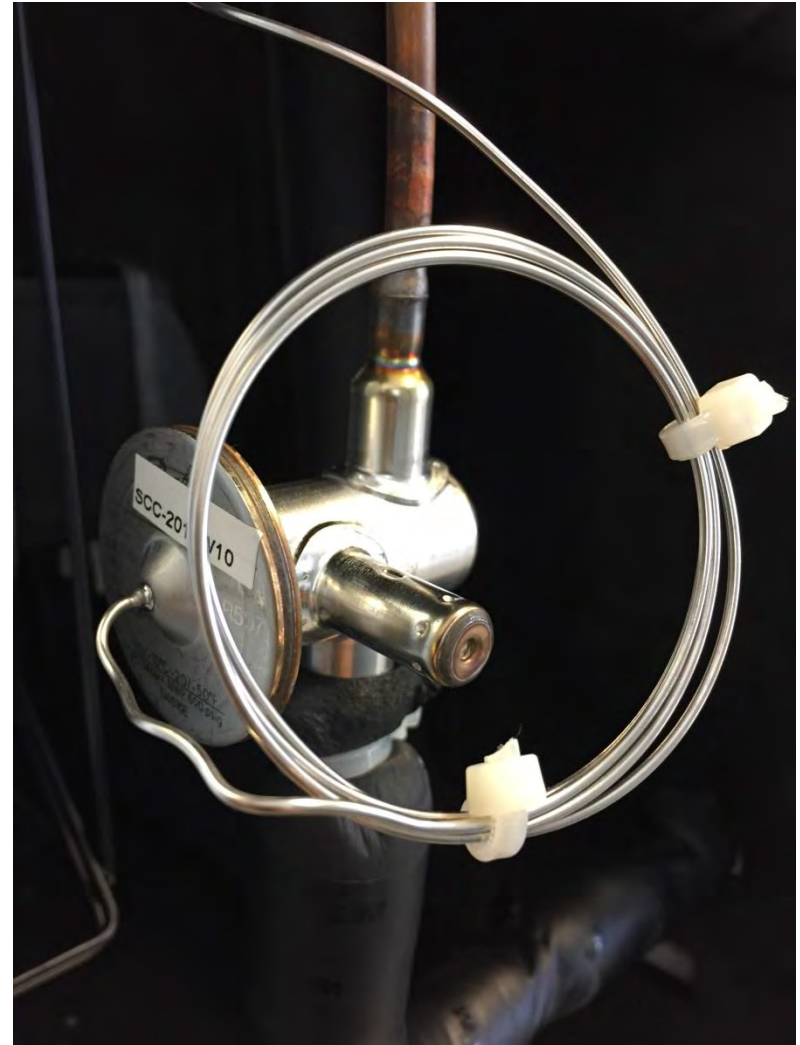
COMPONENTS - REFRIGERANT SYSTEM

- EVAPORATOR



COMPONENTS - REFRIGERANT SYSTEM

- TXV VALVE



COMPONENTS - REFRIGERANT SYSTEM

- **DRIER**



COMPONENTS - REFRIGERANT SYSTEM

- HOT GAS VALVE



COMPONENTS - REFRIGERANT SYSTEM

- HIGH PRESSURE CTRL



COMPONENTS – WATER SYSTEM

The components of the water system of the NW series are:

- **WATER INLET VALVE**



COMPONENTS – WATER SYSTEM

- **WATER SUMP**



- **WATER PUMP**



COMPONENTS – WATER SYSTEM

- WATER
DISTRIBUTOR
TUBE



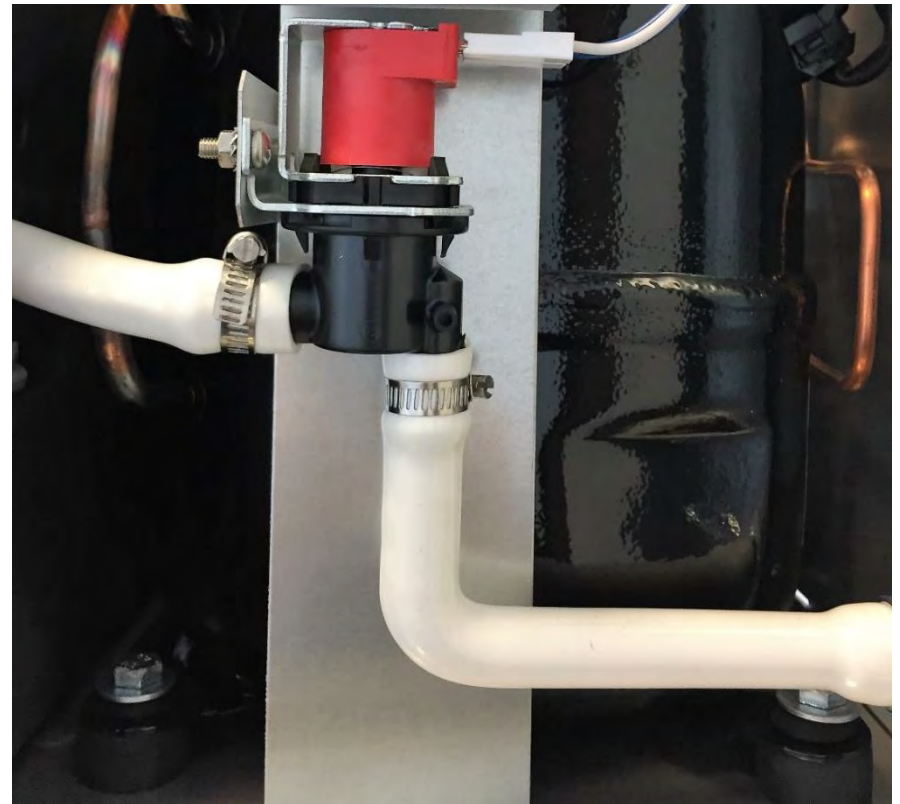
COMPONENTS – WATER SYSTEM

- WATER FLOW
ADJUSTERS



COMPONENTS – WATER SYSTEM

- WATER DRAIN
VALVE



COMPONENTS - ELECTRONIC CONTROLS

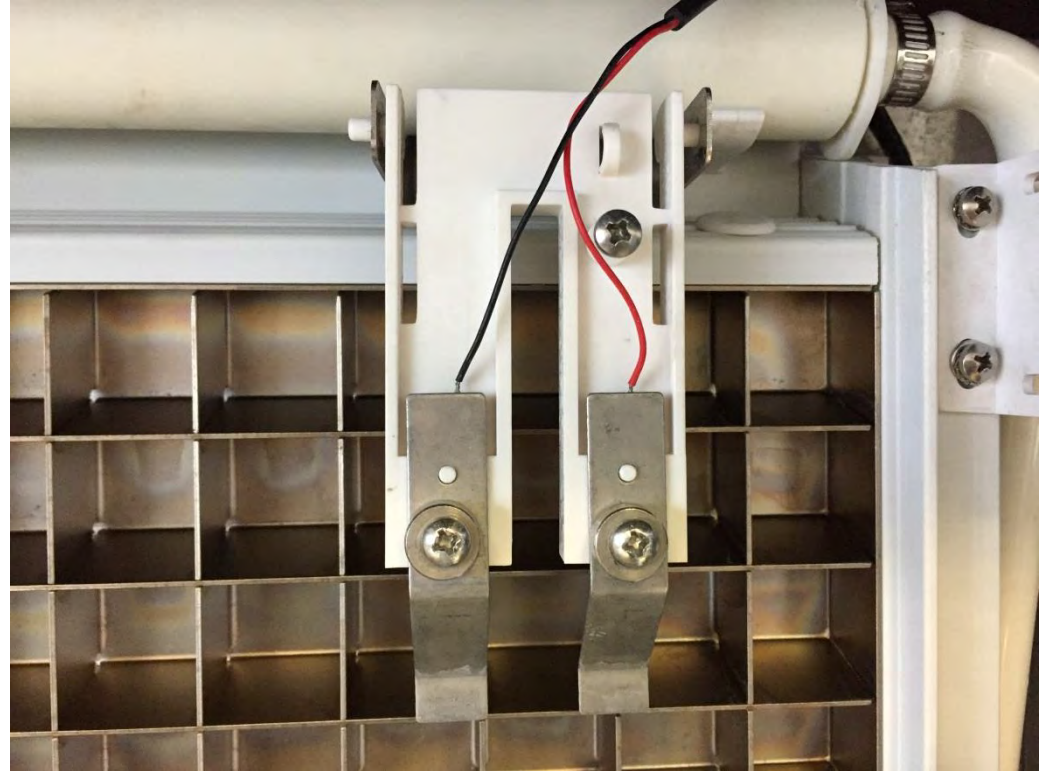
The components of the Electronic System of the NW Series Models are :

- **PC BOARD**



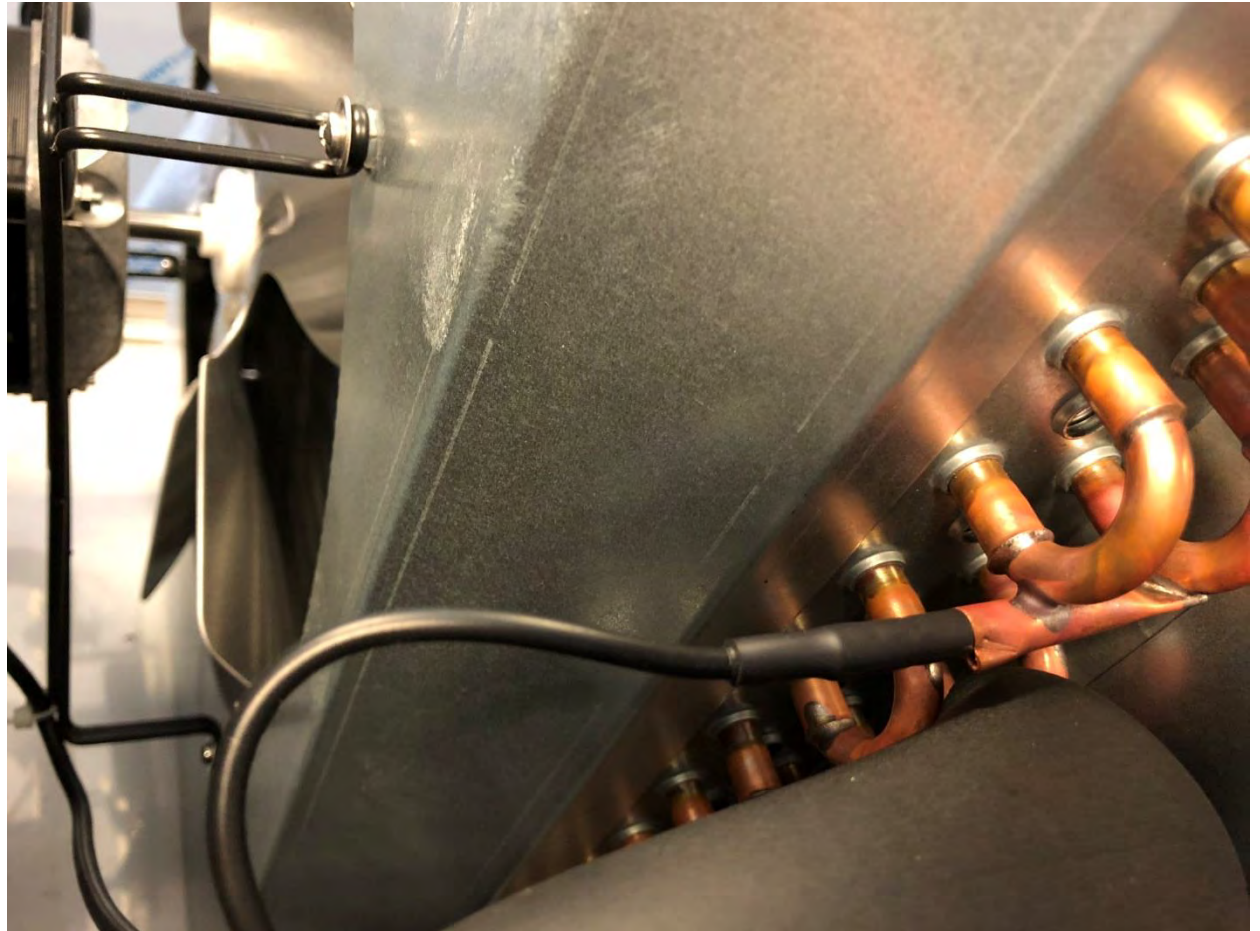
COMPONENTS - ELECTRONIC CONTROLS

- ICE THICKNESS
SENSOR



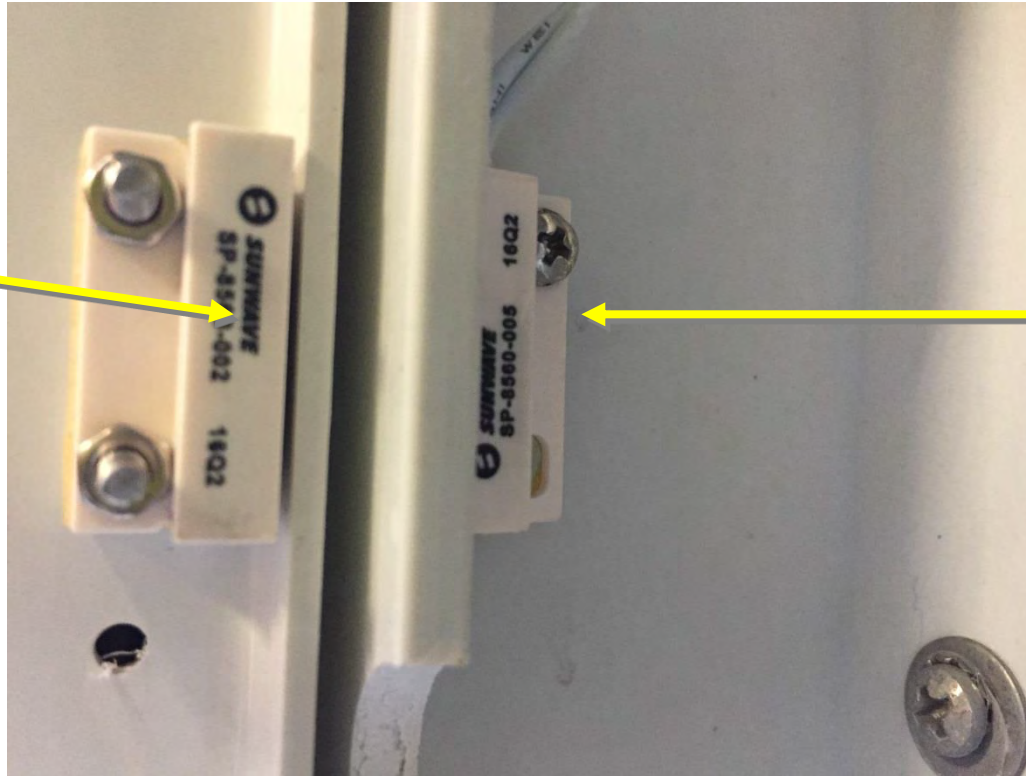
COMPONENTS - ELECTRONIC CONTROLS

- CONDENSER
SENSOR



COMPONENTS - ELECTRONIC CONTROLS

- **MAGNET**



- **MAGNETIC SWITCH**

COMPONENTS - ELECTRONIC CONTROLS

- WATER LEVEL
SENSOR



COMPONENTS - ELECTRONIC CONTROLS

- WATER LEVEL
SENSOR

NW 308-508



MAINTENANCE

The most important program on the maintenance of the cubers machines is the cleaning/sanitizing to be done on regular base as detailed here below

- Sanitizing: Every month
- Cleaning: Every six

On next slides will be shown the procedure for sanitizing and



TOOLS REQUIRED

- Medium Phillips Screwdriver
- Medium Flat Screwdriver
- Pair of safety gloves
- Bucket
- Different types of brush
- Approved Cleaner/Sanitiser



Wait till the end of the defrost/harvest cycle; then switch off the machine from the main switch and close the water tap



MAINTENANCE

Scoop out all
ice cubes
stored into the
bin so to
prevent its
contamination
then...





Be assured
water sump is
empty by water.

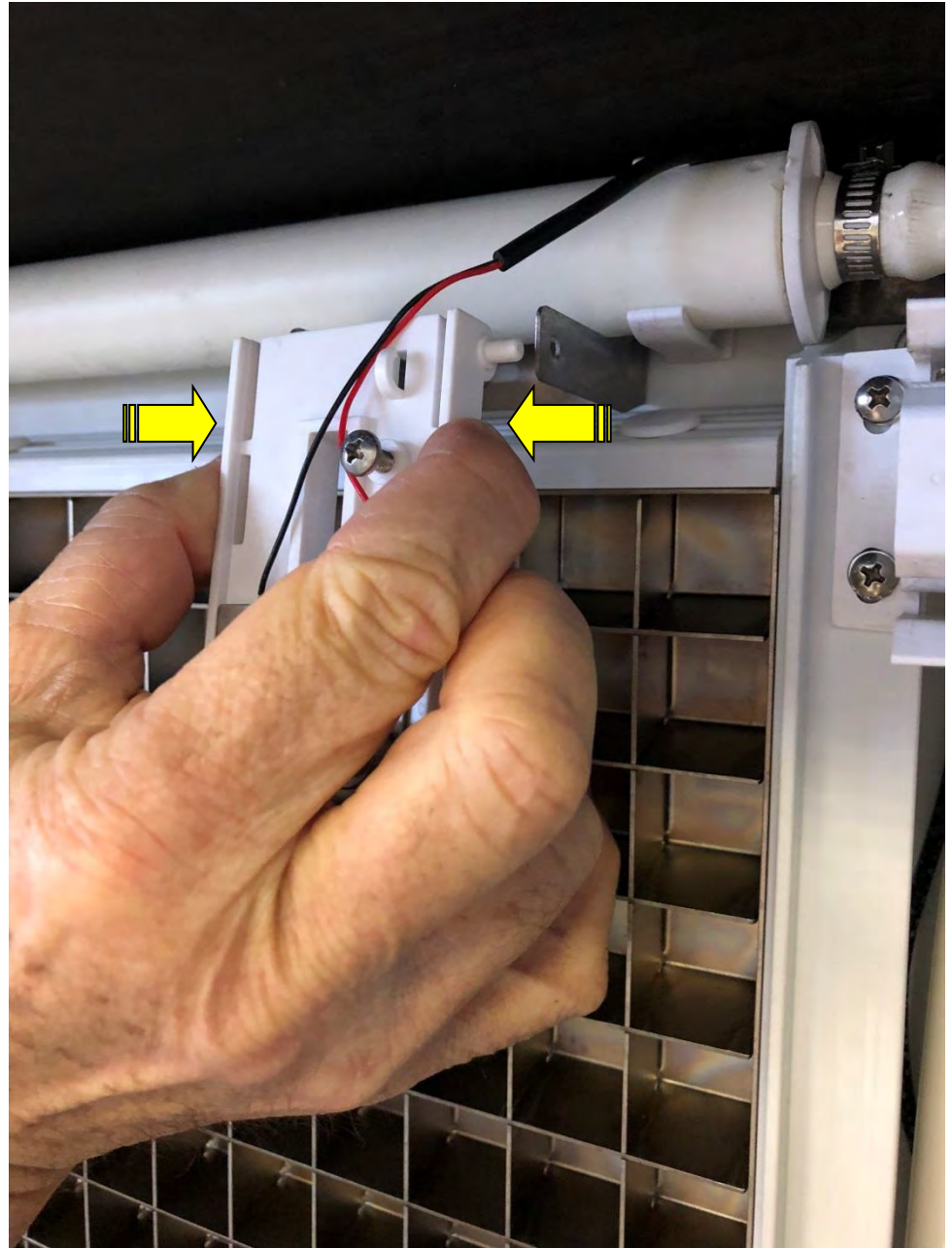
In case dump
the same by
removing drain
plastic plug



... And the
plastic deflector



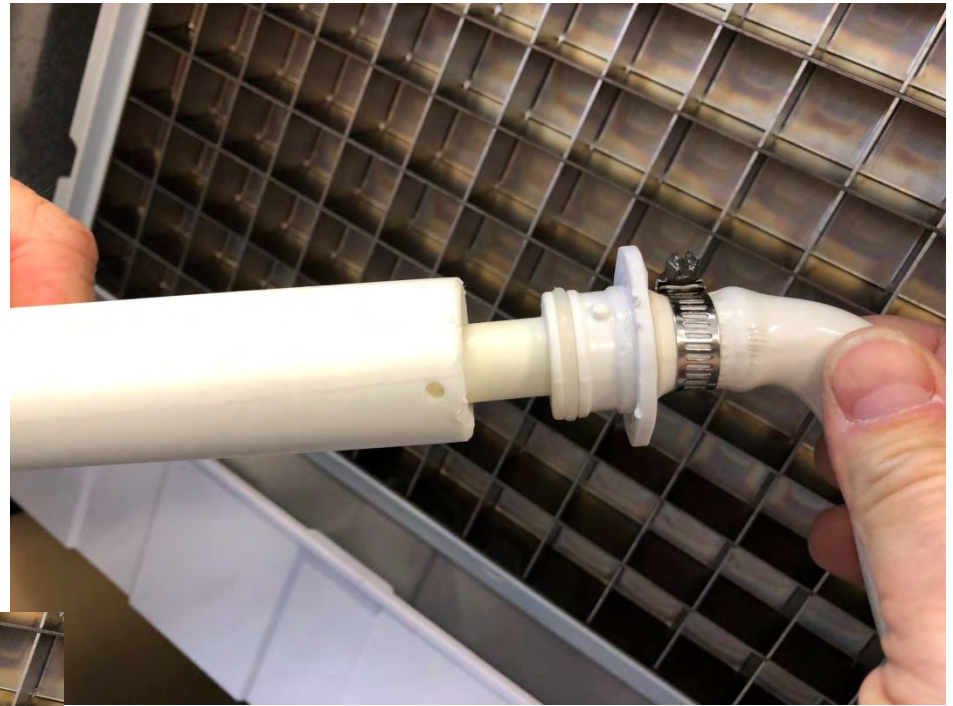
Push the ice
thickness sensor
external plastic
arms and take it off
from its housing



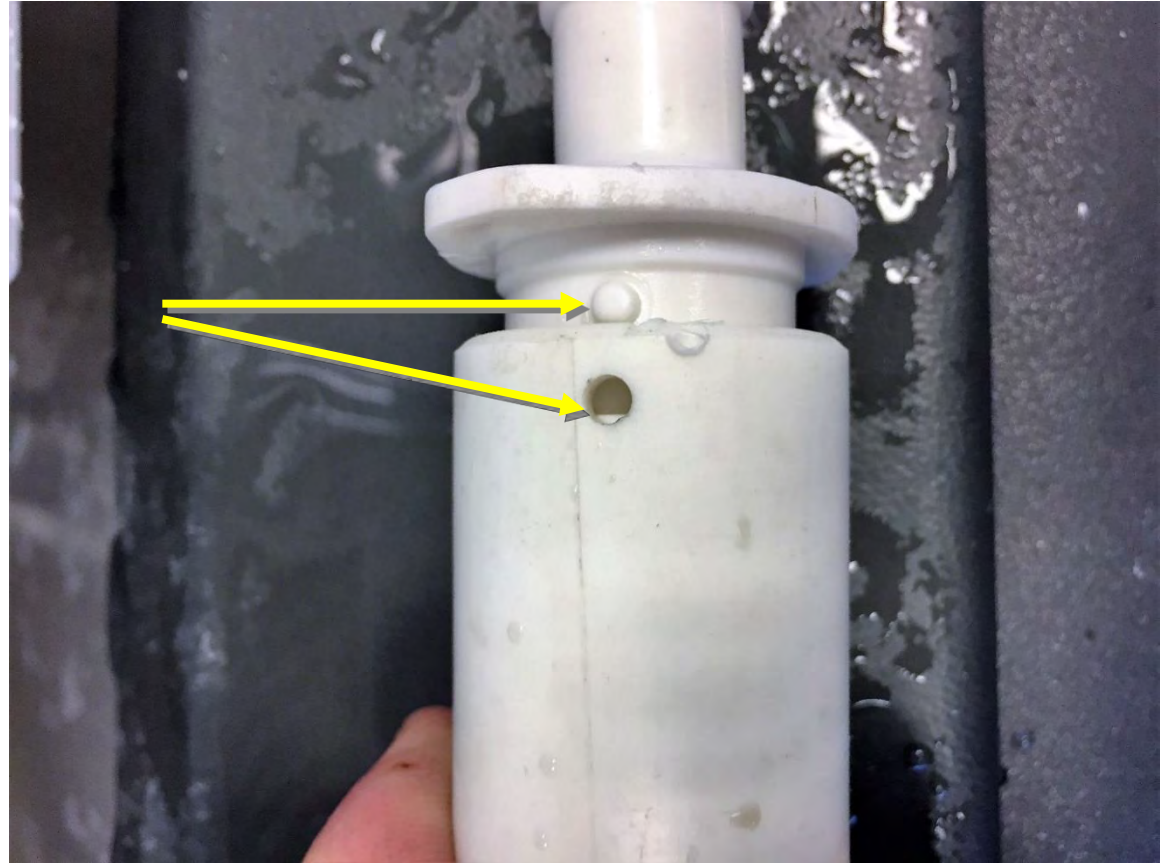
Disconnect the
water inlet
hose from
distributor tube



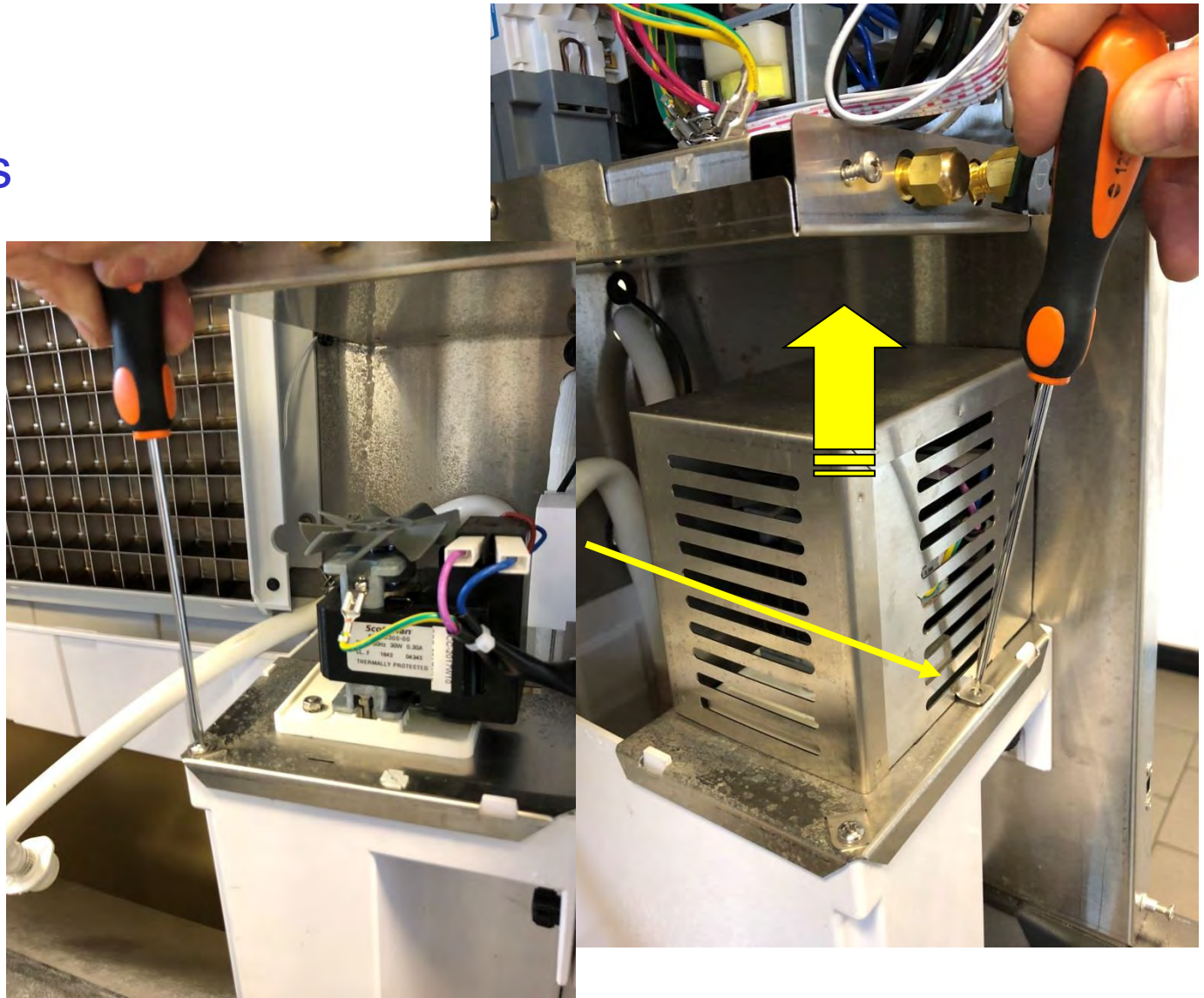
Open up the water
distribution tube for
cleaning



Once properly cleaned re-assemble the Water Distributor Tubes then re-fit it again on the upper side of the evaporator paying attention to match the plastic pin with the hole.



Unscrew
water pump
bracket screws
and remove it
from the
reservoir



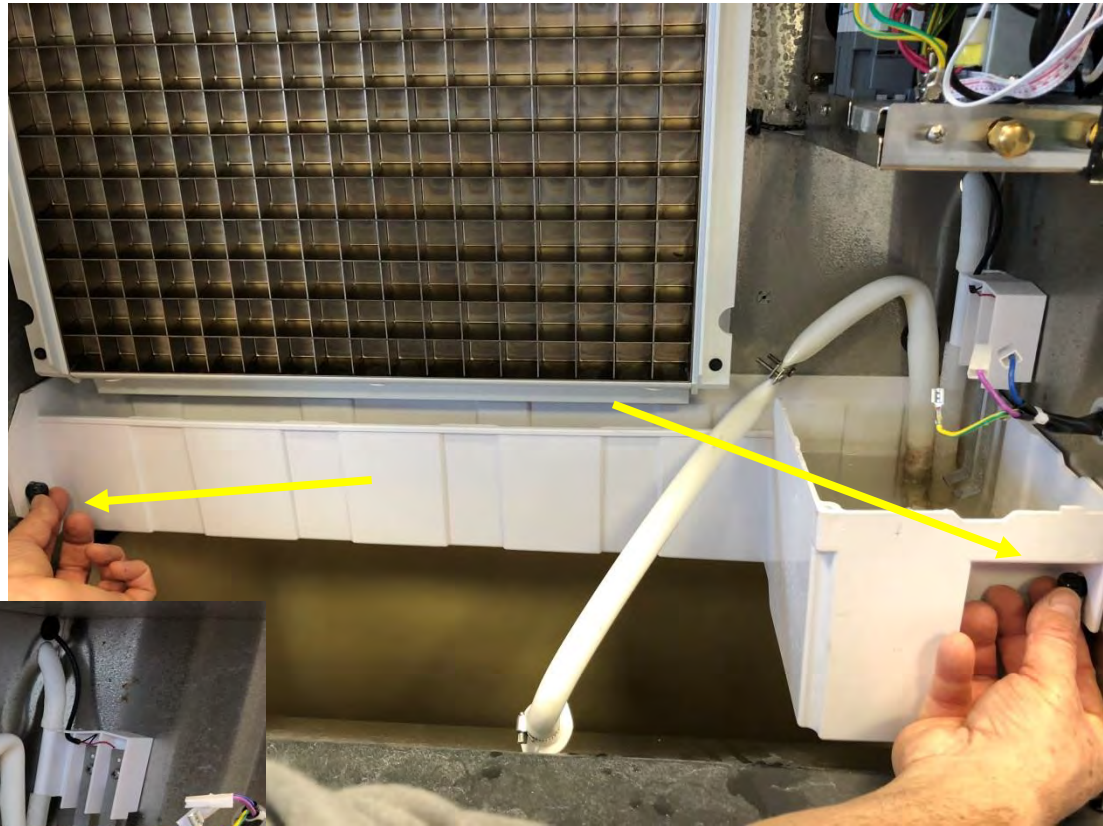
Disconnect the
water pump
from its power
spade
connectors



Remove water pumps
from the reservoir and
disconnect the water
discharge hose



Unscrew the two
thumb screws then
withdraw reservoir
from its seat



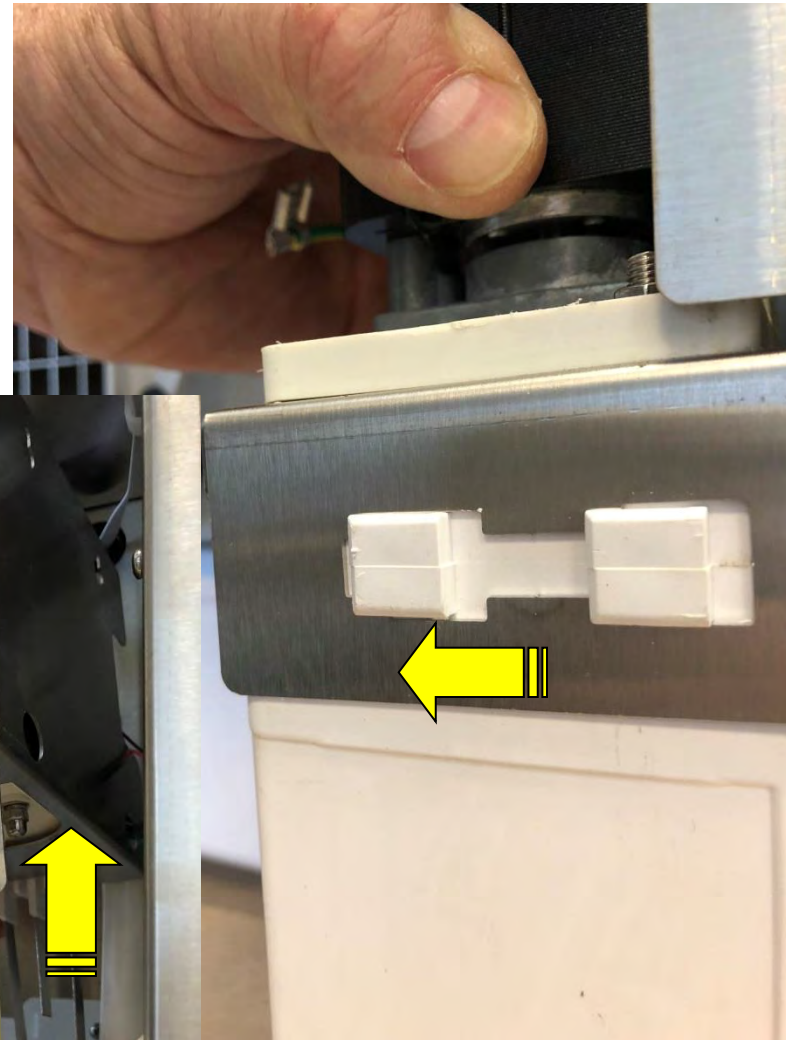
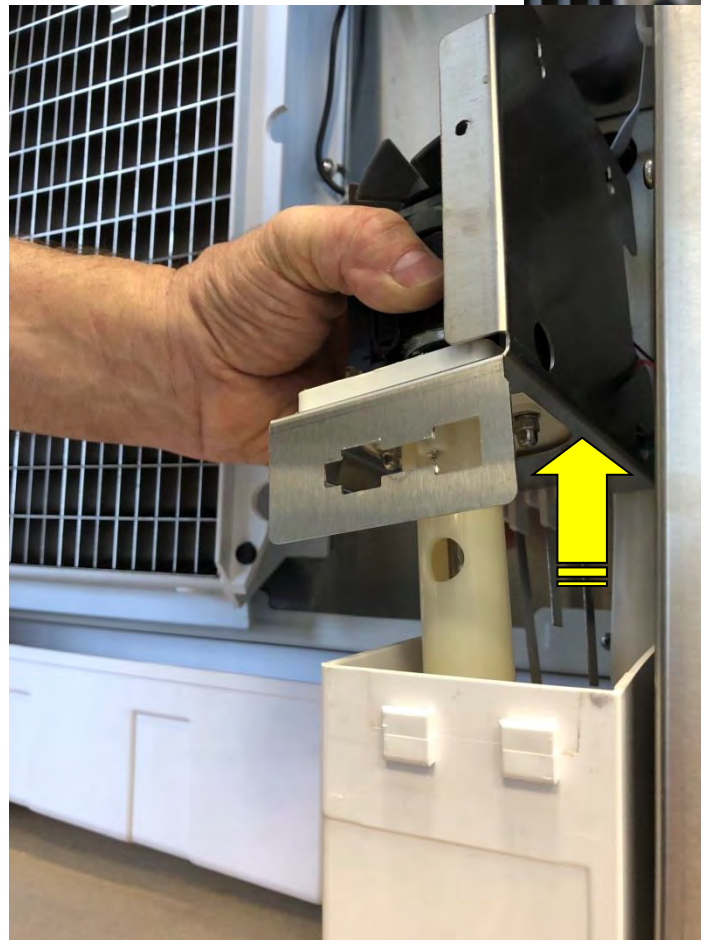
NW 308-508

Unscrew
water pump
bracket screws
and remove it
from the
reservoir



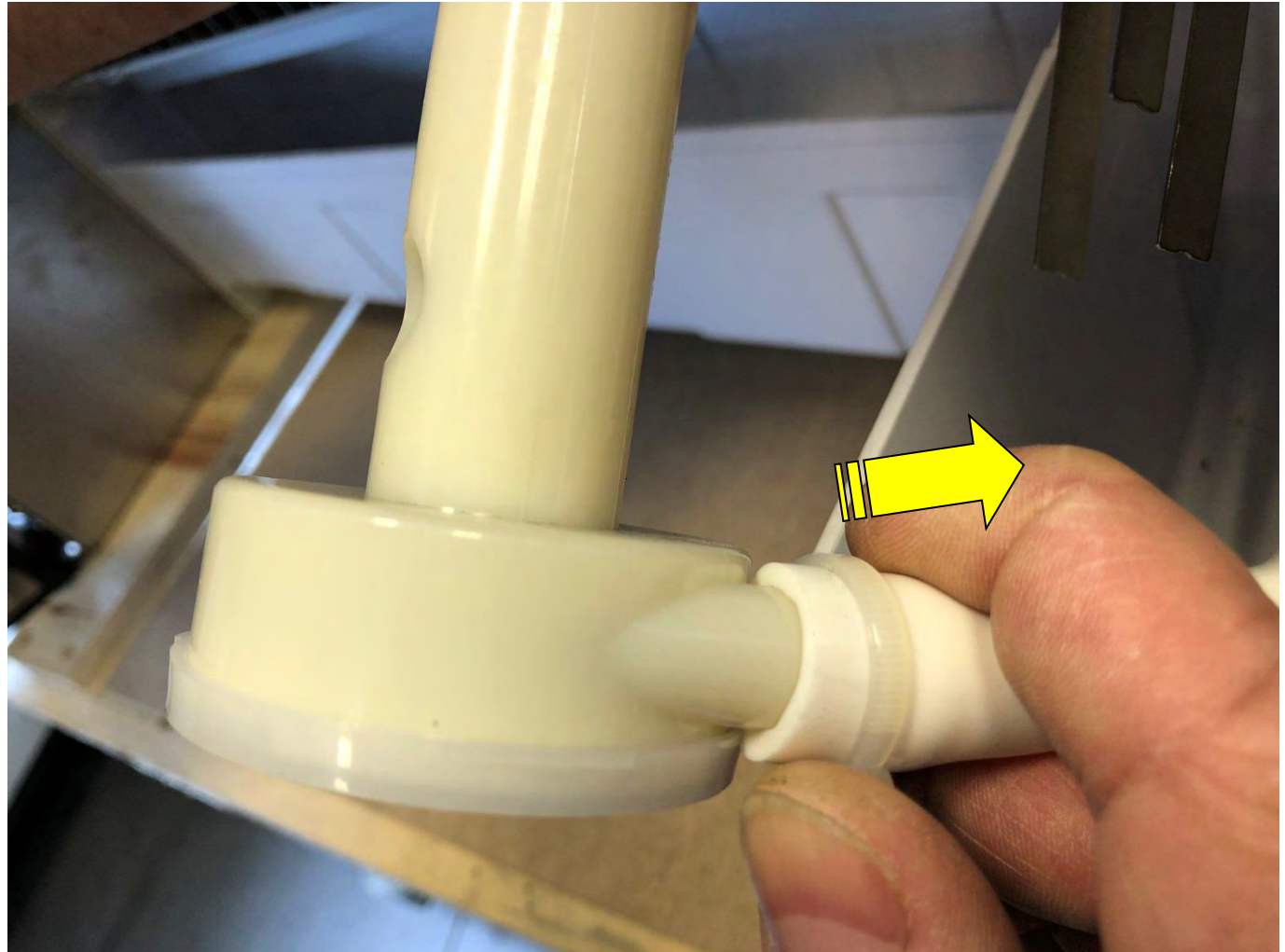
NW 308-508

Slip to the left side the water pump bracket thus to release the same from the water reservoir and lift up the water pump



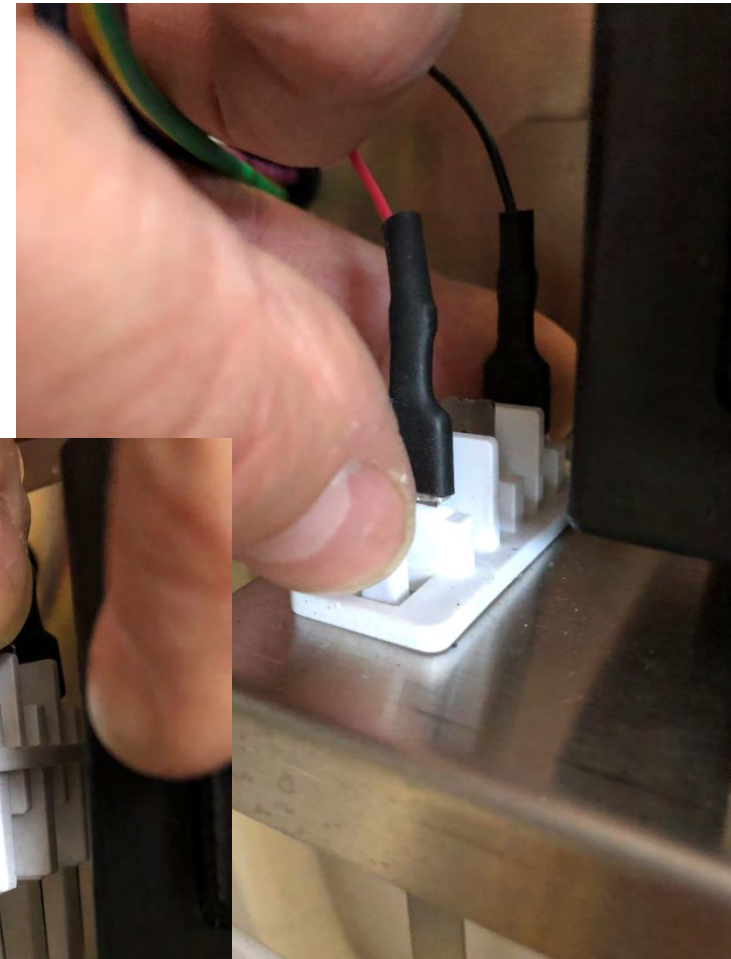
NW 308-508

disconnect
the water
water
discharge
hose

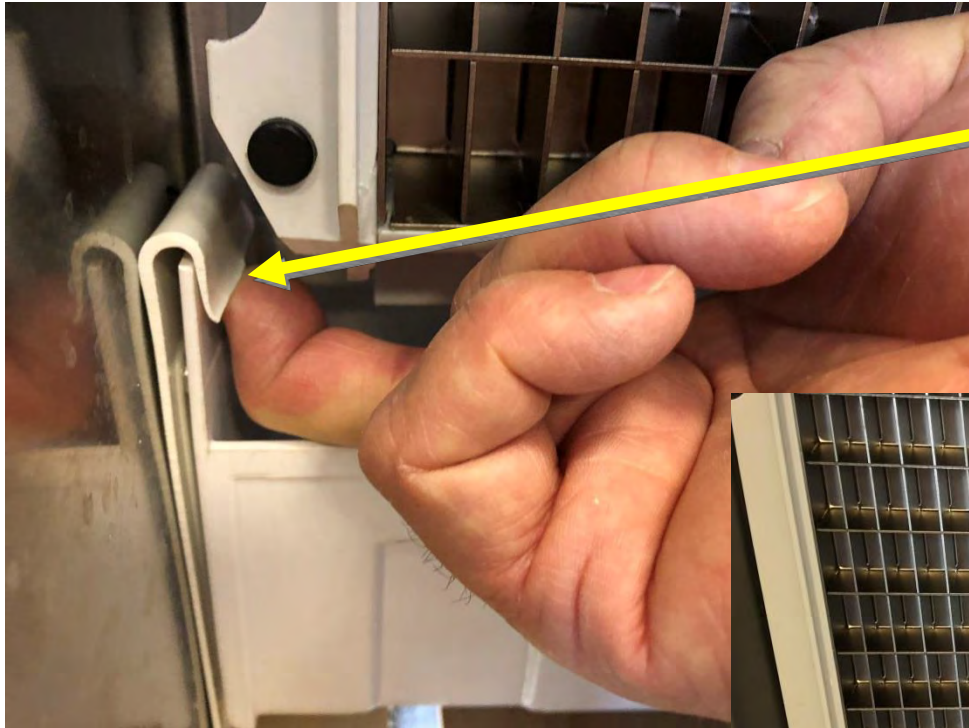


NW 308-508

Push the water level
sensor arms IN and
remove the same
from its seat



NW 308-508



Hang on water reservoir
left holding bracket and
withdraw reservoir from its
seat



Prepare the cleaning solution by diluting in a plastic bucket two liters of lukewarm water (max 40°C) with 200 ml of **SCOTSMAN Ice Machine Cleaner**.



Clean evaporator
plastic cover by
cleaning solution
then rinse it by fresh
water



Clean water
distribution
tubes and water
reservoir by
cleaning
solution then
rinse it by fresh
water



All above step (cleaning) shall also be made by antibacterial solution (finally rinsed by fresh water) then, carefully reinstall all cleaned removed parts

Once completed cleaning procedure on removed parts reinstall the same accordingly

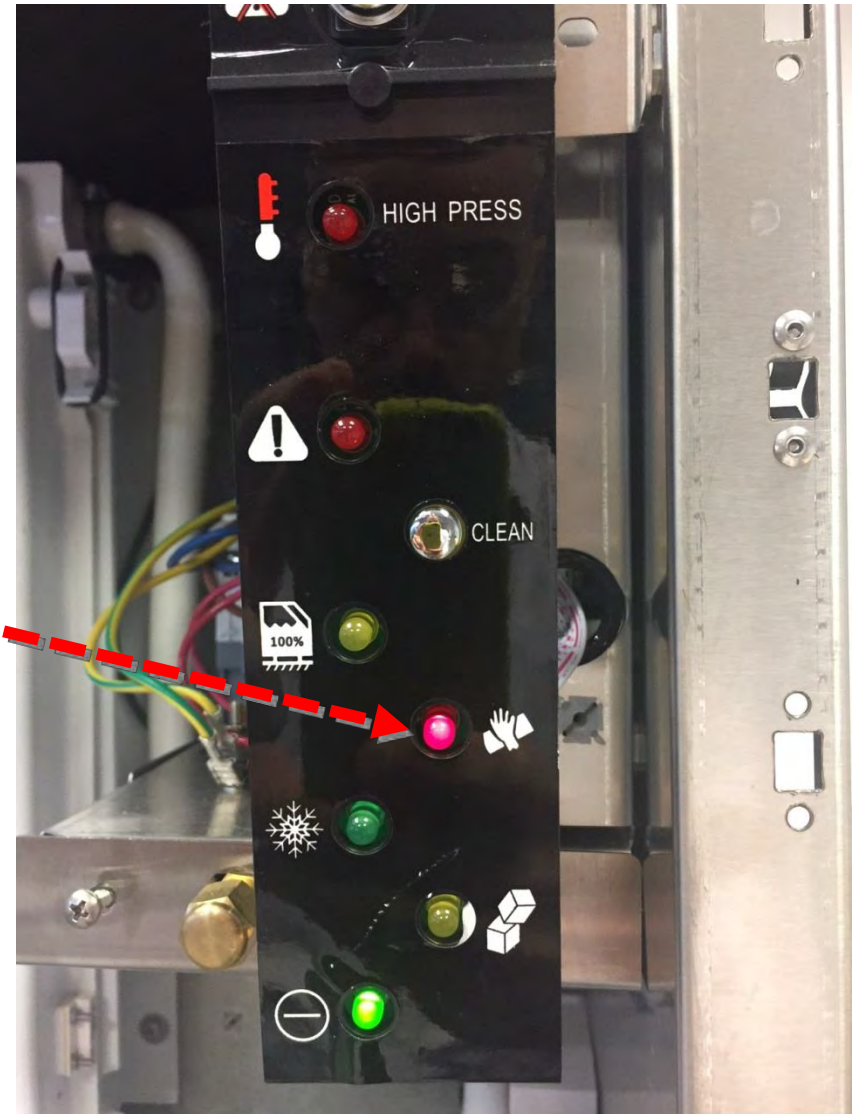
Switch ON the machine from the main switch and OPEN the water tap



Push the
CLEAN
BUTTON for
2-3 seconds



The machine enters in the Cleaning/Sanitize cycle with the red CLEAN LED light on MONITOR PANEL blinking fast in whole procedure



In the first 30 seconds of clean procedure the machine purge water from the sump, then pour:

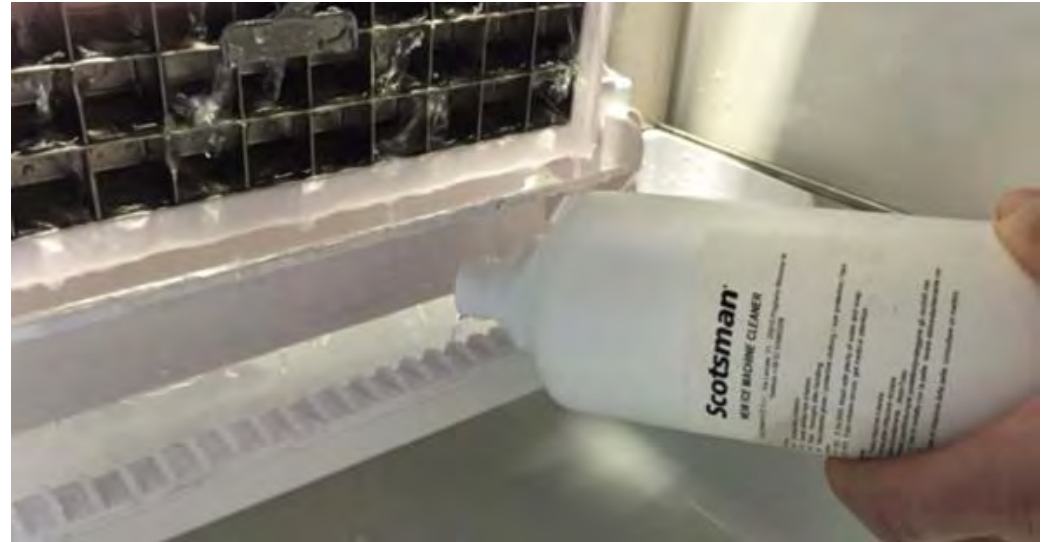
NW 308: 180 ml

NW 506: 200 ml

NW 458-608: 350 ml

NW 1008: 350 ml

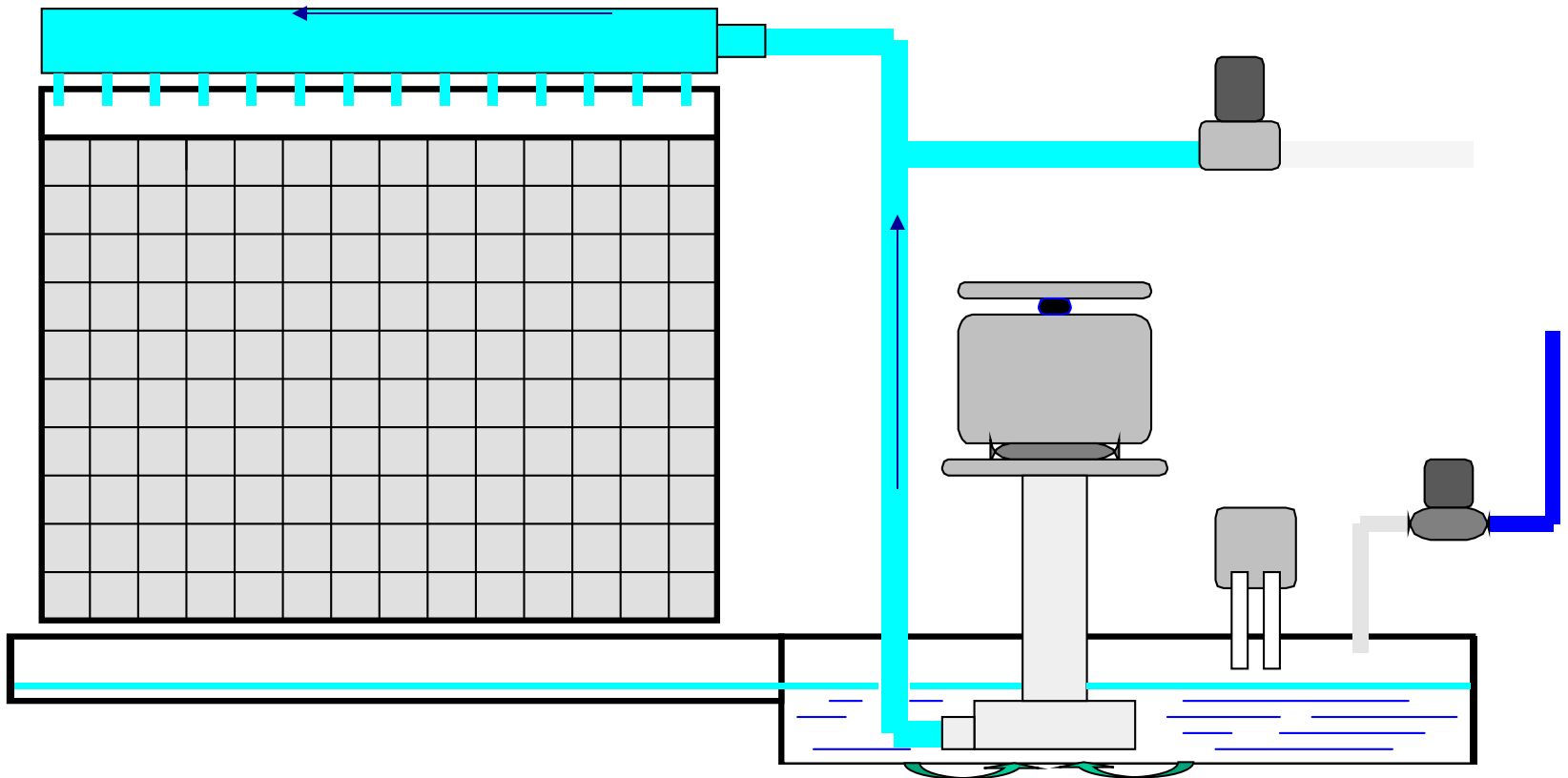
of SCOTSMAN cleaner inside water sump while...



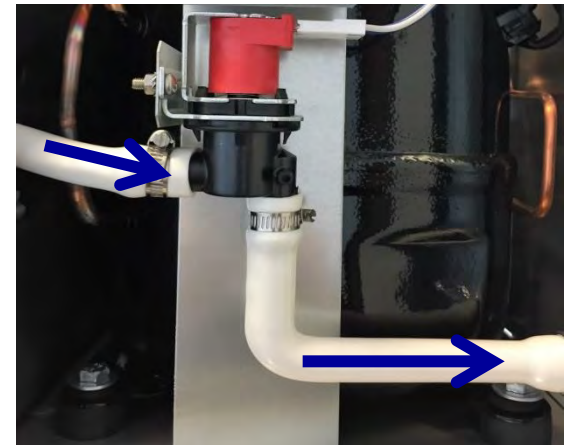
.....the water inlet valve will be energized till the fill up of the water sump . The water pump starts to operate



With the system in Cleaning mode the water pump is the only component in operation to circulate the cleaning solution in the entire water system.



After 10 minutes from the start of the cleaning cycle machine will purge automatically the Cleaner solution and refill up the water sump, then goes into automatic rinsing mode.



RINSING MODE consists of:

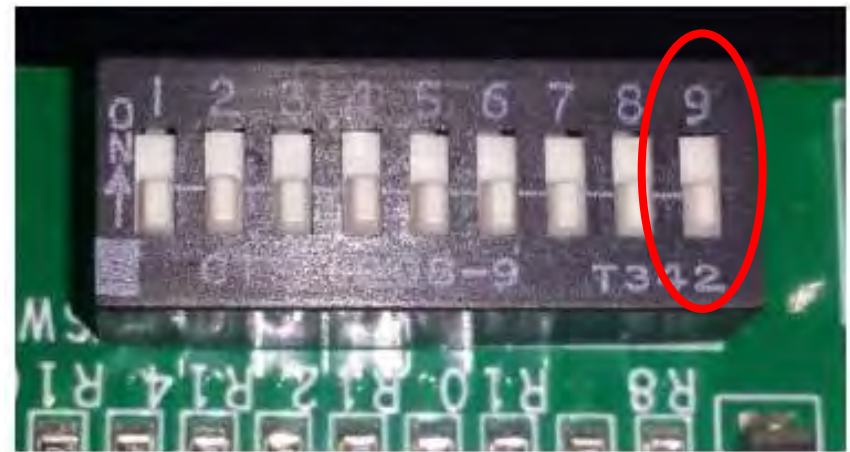
- Energize water pump for 30”
- Energize water drain valve and water pump for 30”
- Energize water inlet valve till the fill up of the water sump
- The above sequence is repeated 10 times to be sure to have removed any possible trace of Ice Machine Cleaner

At the end of 10th rinsing cycle, the machine restart
according with the setting of DIP-SWITCH n.9

OFF = Machine will stop clean
procedure with slow blinking of
Red CLEAN light

Push CLEAN button to restart in
freezing cycle

ON = Machine will restart
automatically with a new
freezing cycle



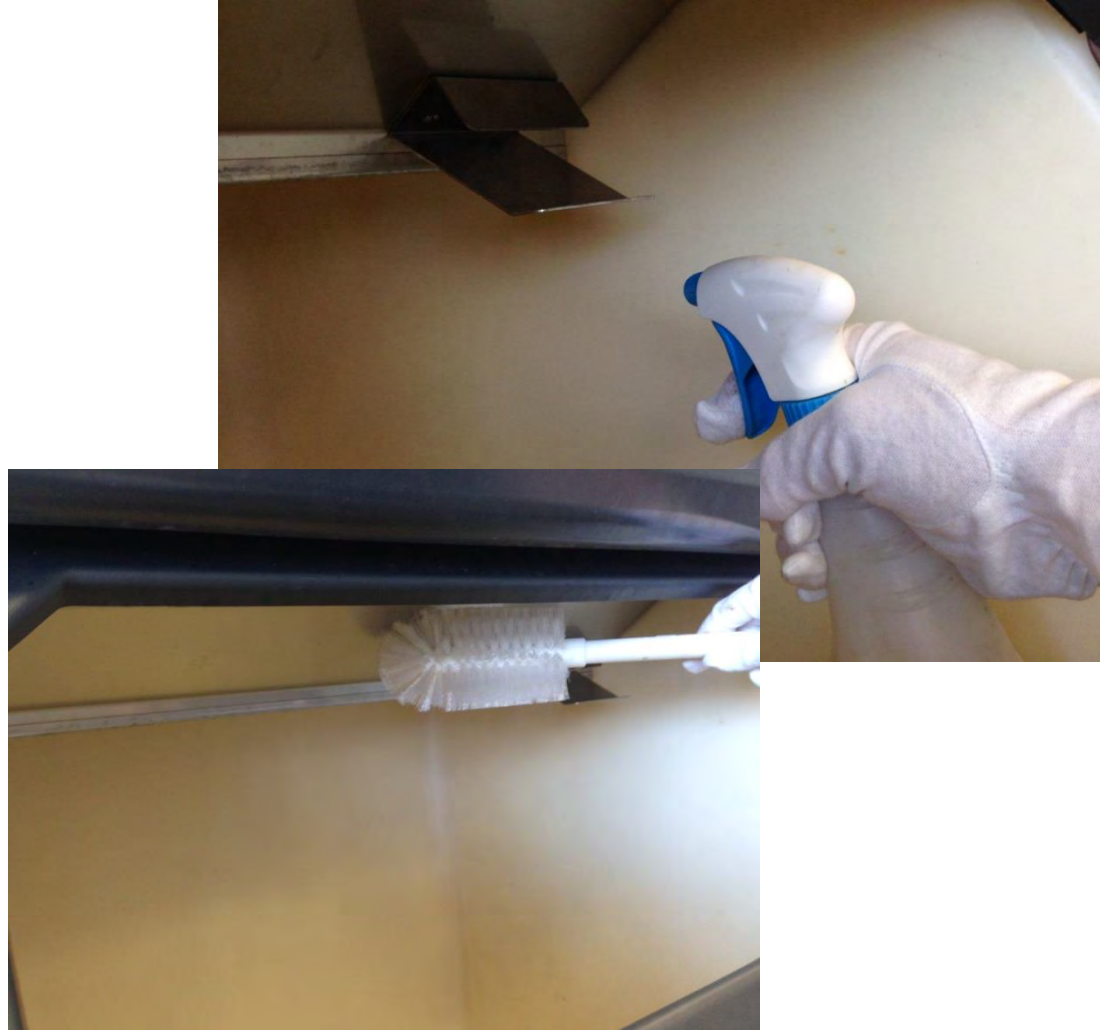
Repeat same
procedure pouring
approx. 5 ml of
Sanitizer
(Amuchina) directly
into the water
reservoir



Meanwhile the unit is running the rinsing cycle , mix in a clean bucket some fresh water with 1% of sanitizer product (Amuchina)



Fill up with the mixed solution a spray bottle, then spray the same to all bin internal wall/area and wipe with a proper brush the SS deflector as well as the internal surface of the plastic door and the internal area of the bin



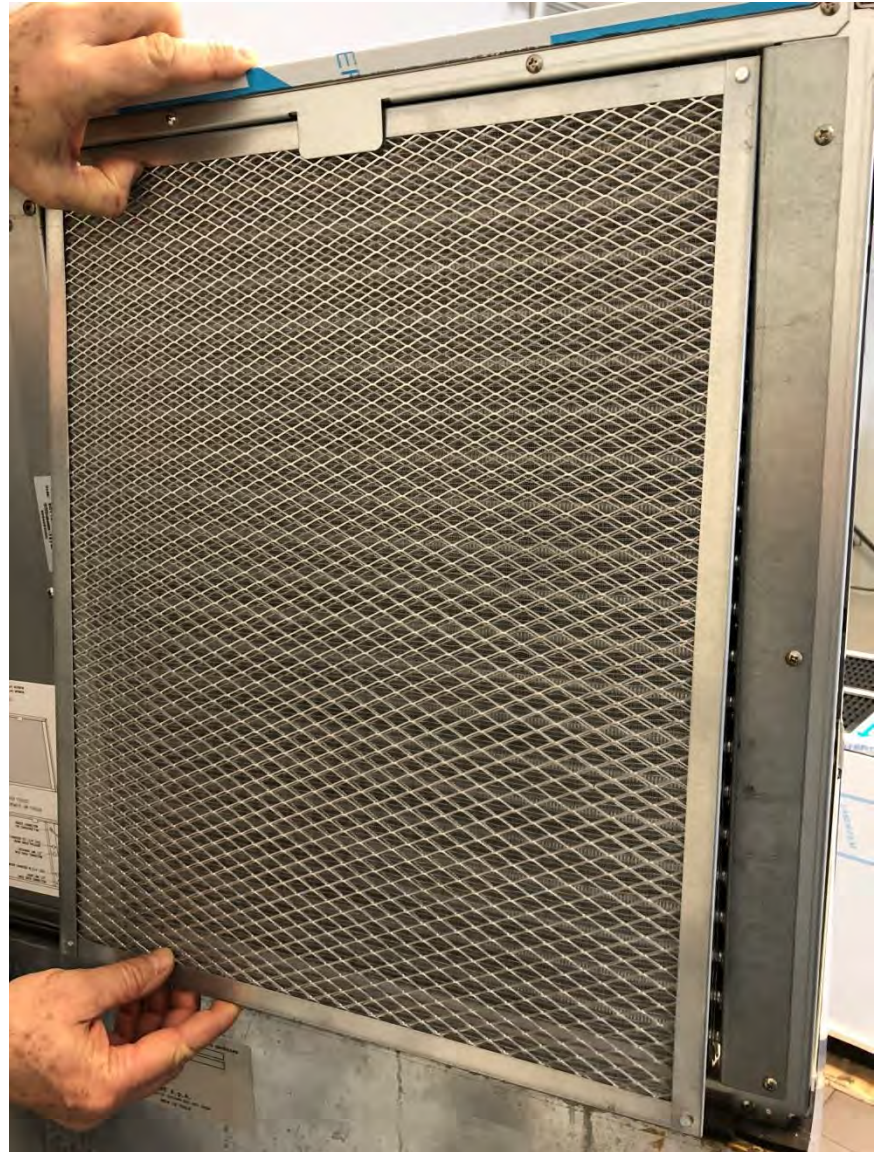
REMEMBER: The interior liner of the bin is in contact with a food product, ice, and needs to be cleaned and sanitized regularly (**one a week**) to prevent accumulation of bacteria. Once a week sanitize it with a commercial food grade sanitizers complying with the manufacturer dilution instruction



Install back the front panel and switch
ON the machine.

Check next batch, if it s cloudy, white
and have an acid taste, melt them
immediately by pouring on them some
warm water. This to prevent that
somebody can use it

Monthly check
and clean rear air
filter



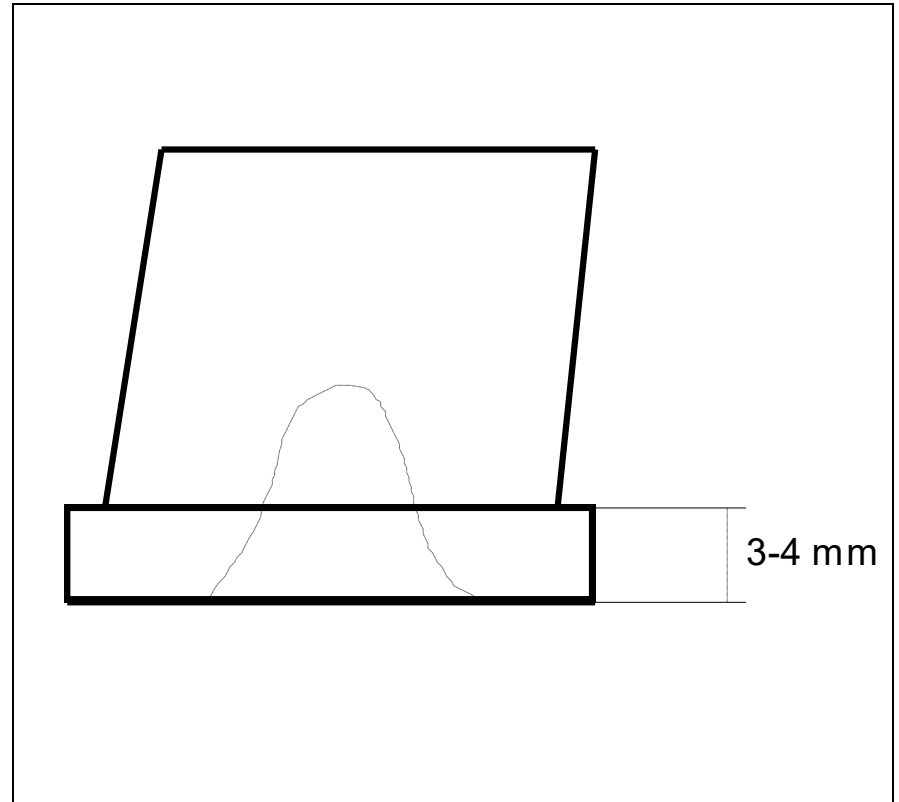
SERVICE ANALYSIS

SERVICE ANALYSIS

This is a **Scotsman Dice**

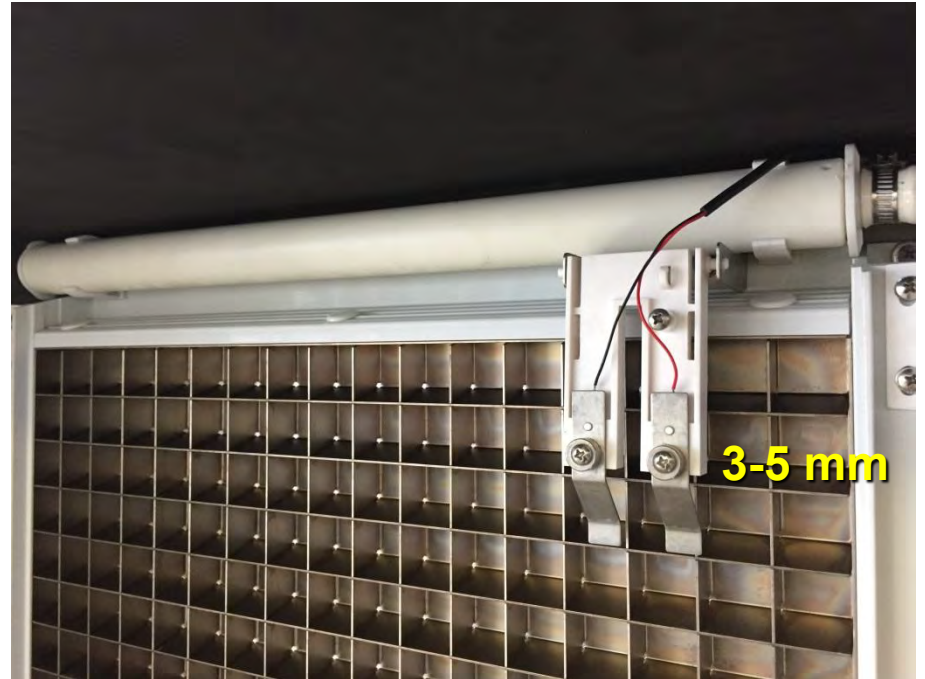
Cube.

It must be clear, solid with a
bottom rim of about 3-4 mm
and a small depression of 9-
10 mm.



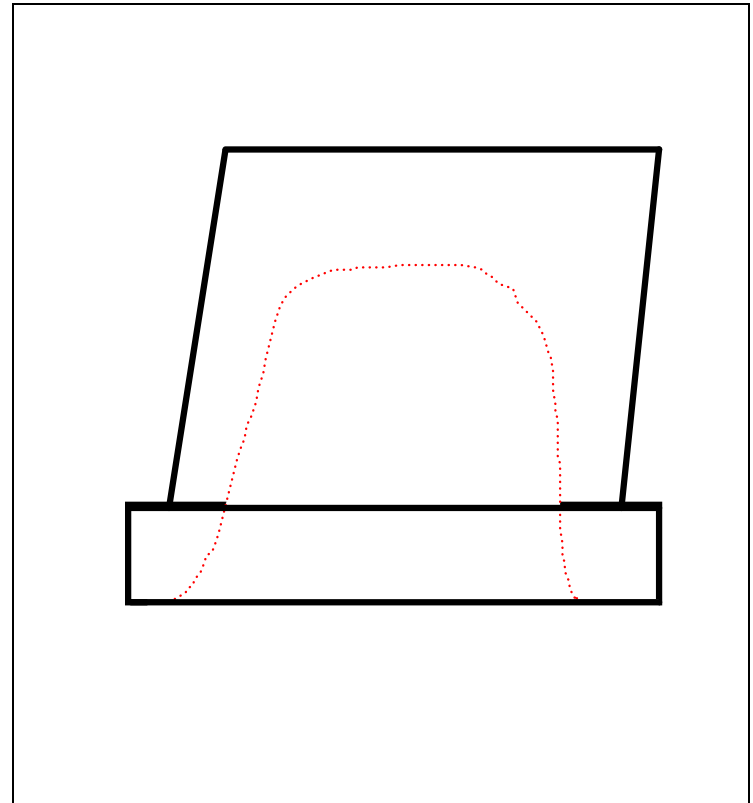
SERVICE ANALYSIS

The Ice Thickness Sensor must be adjusted so to have a clearance of approximately 3-5 mm between the bottom of the two metal plates and the front of the evaporator cells.



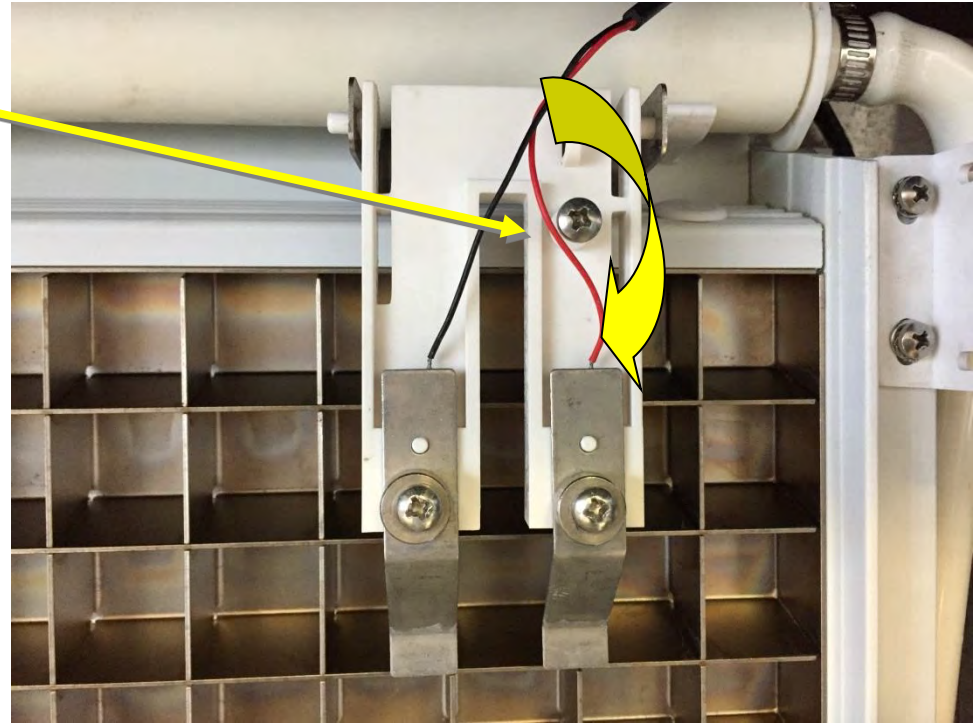
SERVICE ANALYSIS

This ice cube is clear, solid but it has a deep depression on its bottom rim due to a too short freezing cycle.



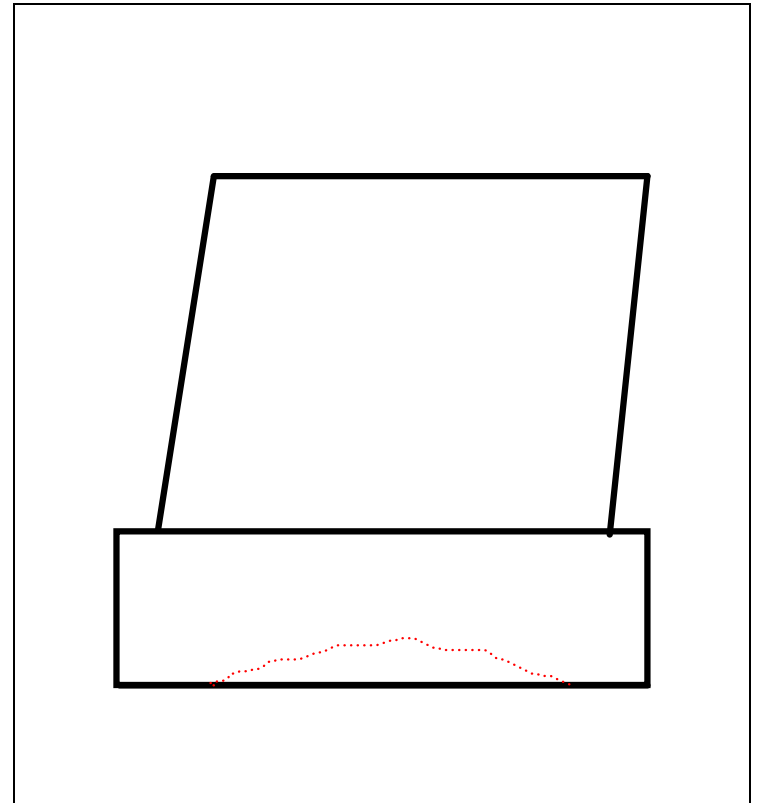
SERVICE ANALYSIS

It is necessary to extend the length of the freezing cycle by adjusting the clearance between the ice thickness sensor and the front of the evaporator turning the adjusting screw clockwise.



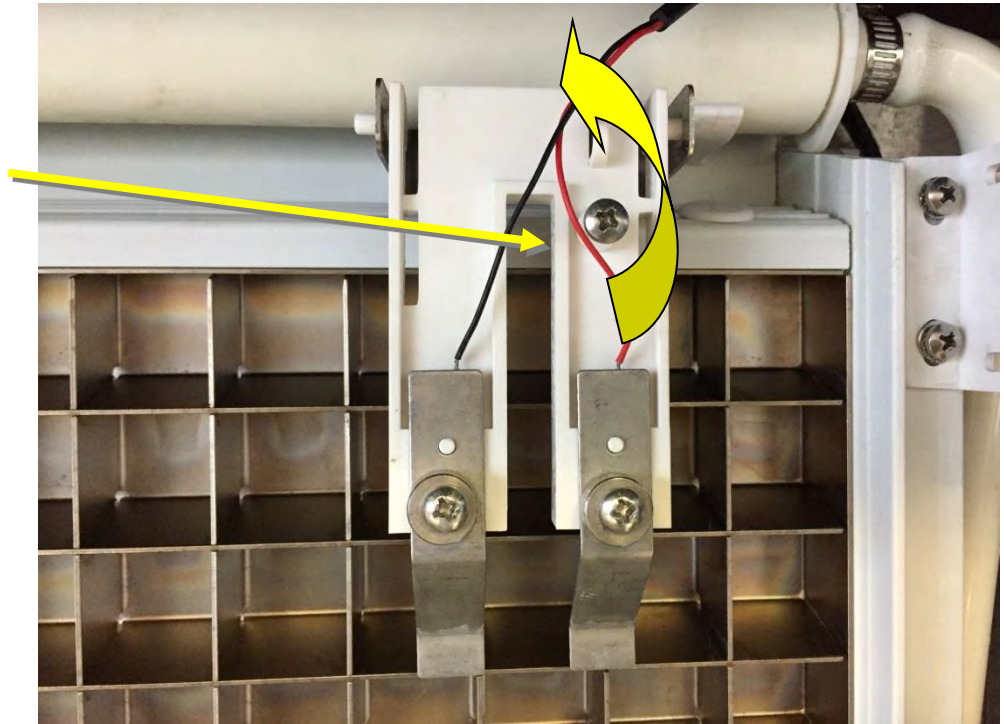
SERVICE ANALYSIS

This ice cube is clear, solid but
it is oversized due to a too
long freezing cycle.



SERVICE ANALYSIS

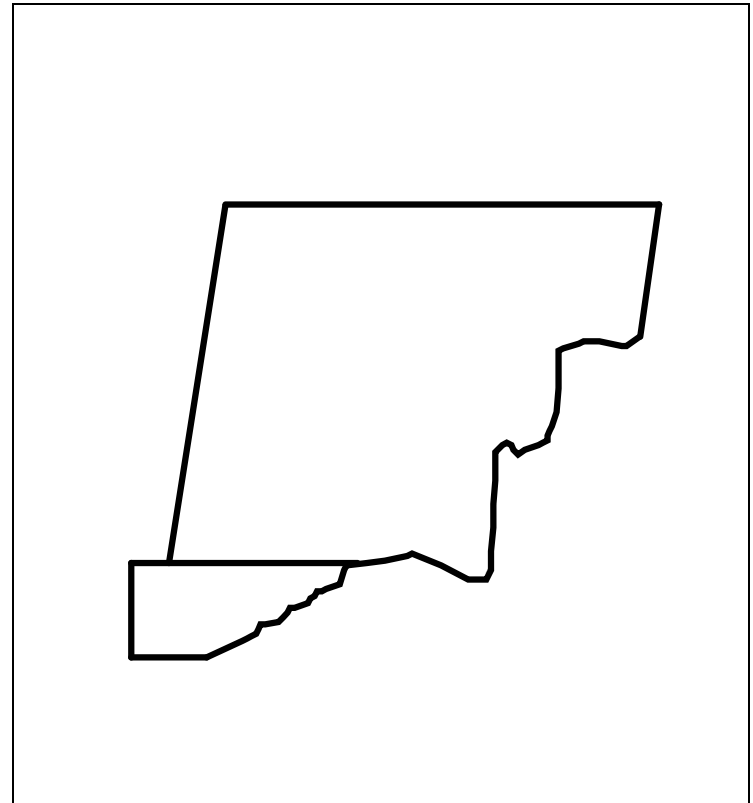
It is necessary to reduce the length of the freezing cycle by adjusting the clearance between the ice thickness sensor and the front of the evaporator turning the adjusting screw counterclockwise.



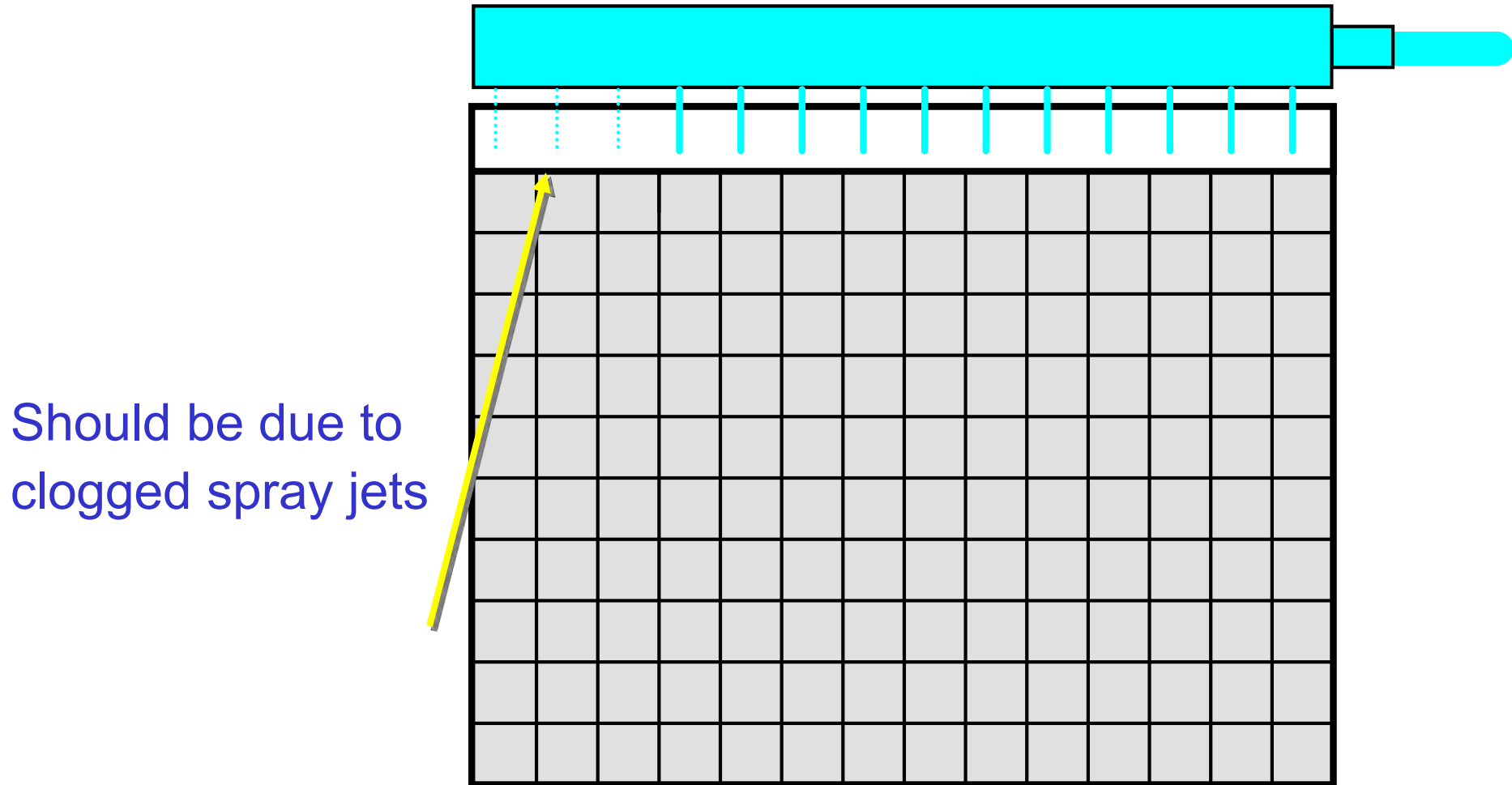
SERVICE ANALYSIS

This is a typical ice cube clear on its upper left side and white and corroded on its bottom right side.

The reason is that the water doesn't reach in correctly the inside of some of the evaporator molds.

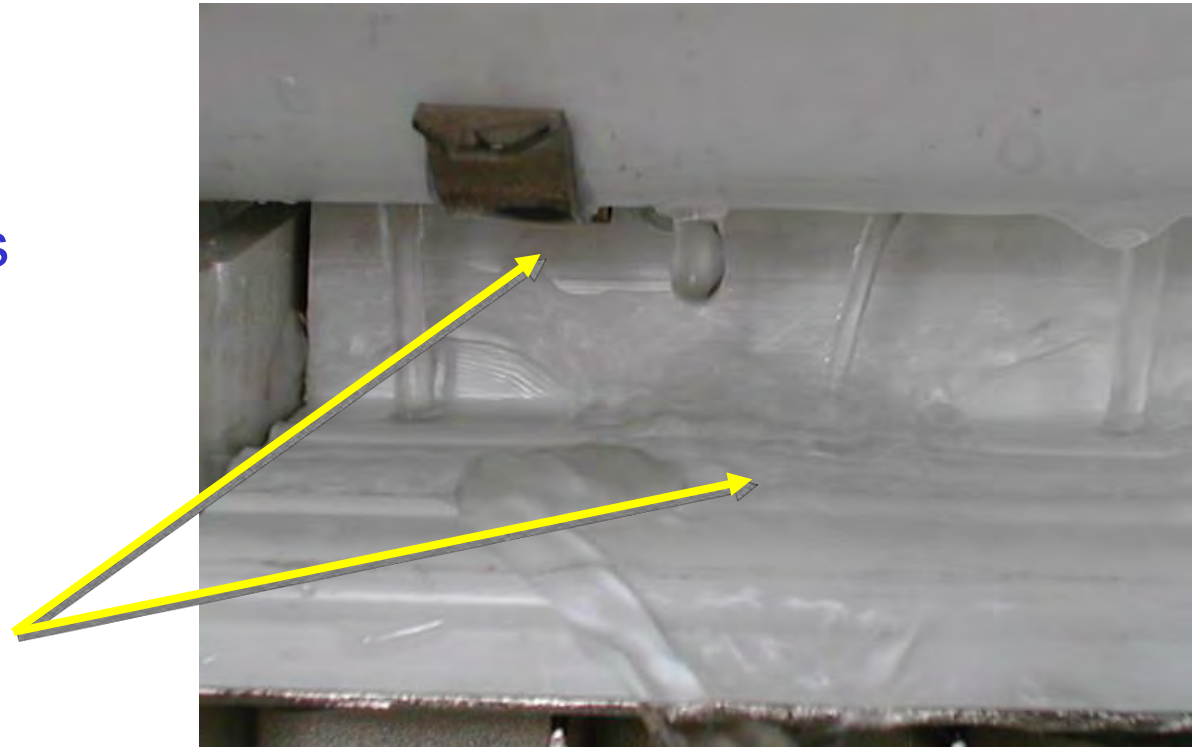


SERVICE ANALYSIS



SERVICE ANALYSIS

To solve this trouble check and clean spray bar as shown on the previous Cleaning Procedures

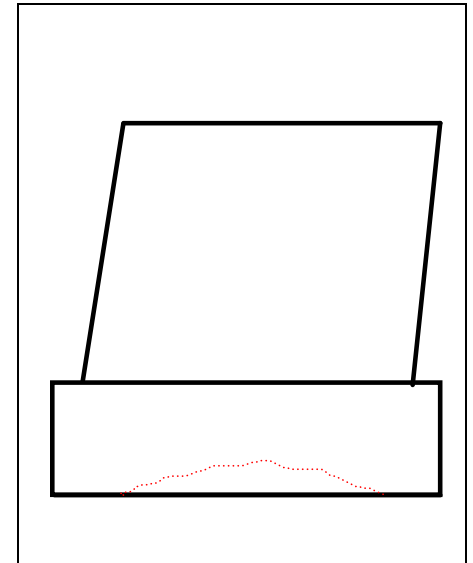
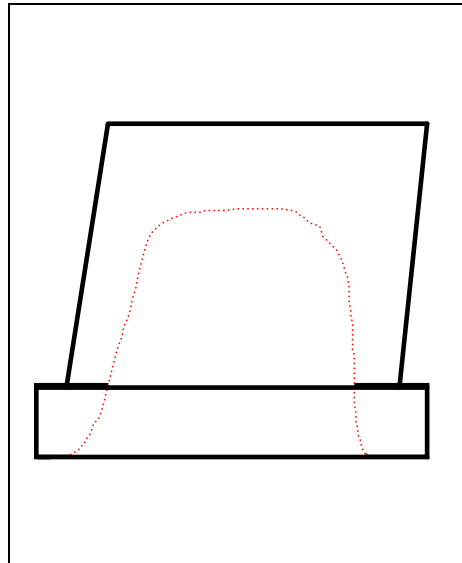


SERVICE ANALYSIS

These ice cubes are both clear, solid but some are oversized and some other are undersized.

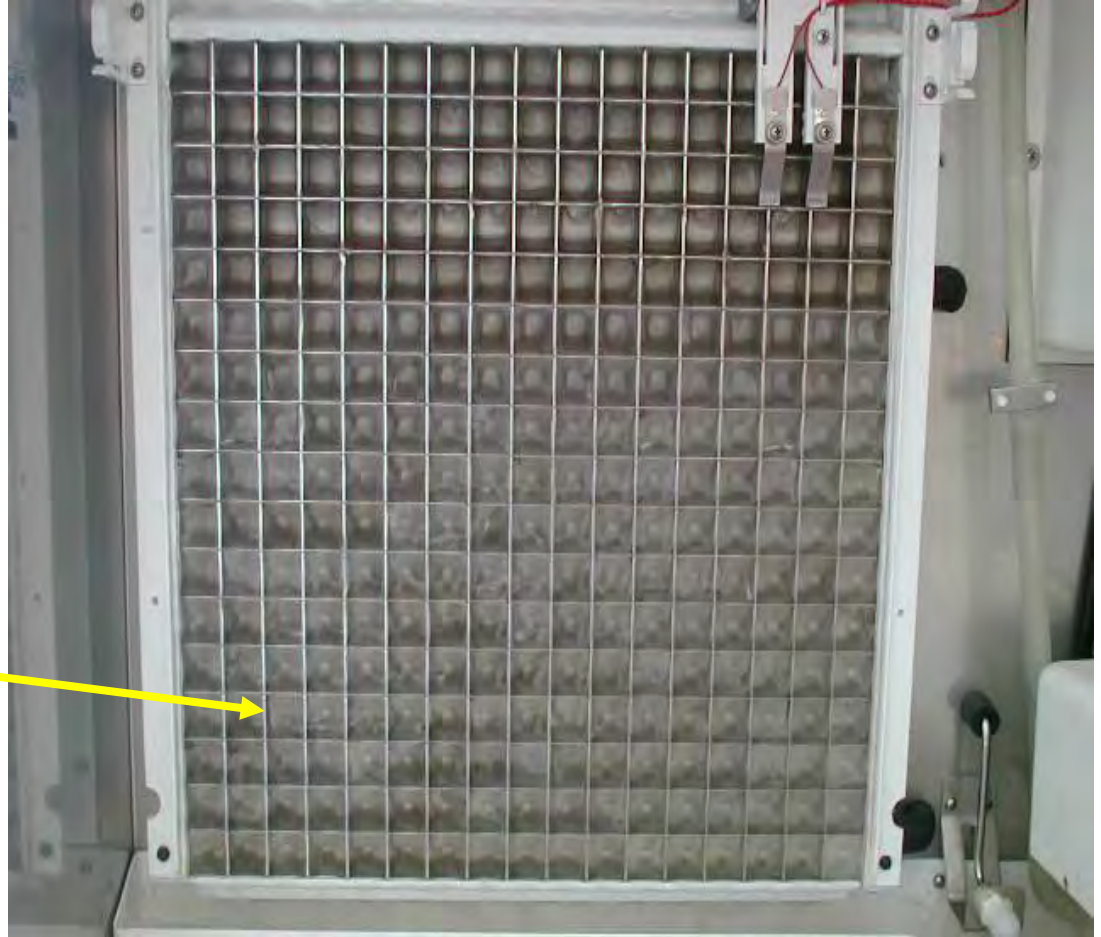
If so the possible reasons could be:

- **TXV not working properly**
- **Low refrigerant charge**



SERVICE ANALYSIS

Looking the
evaporator,
after 15-20
minutes in the
freeze, the ice
is probably.....



SERVICE ANALYSIS

thick on the bottom portion (inlet of refrigerant) and thin on the upper one (outlet) due to the lack of exchange of heat between refrigerant - already in vapor state - and cascading water.



SERVICE ANALYSIS

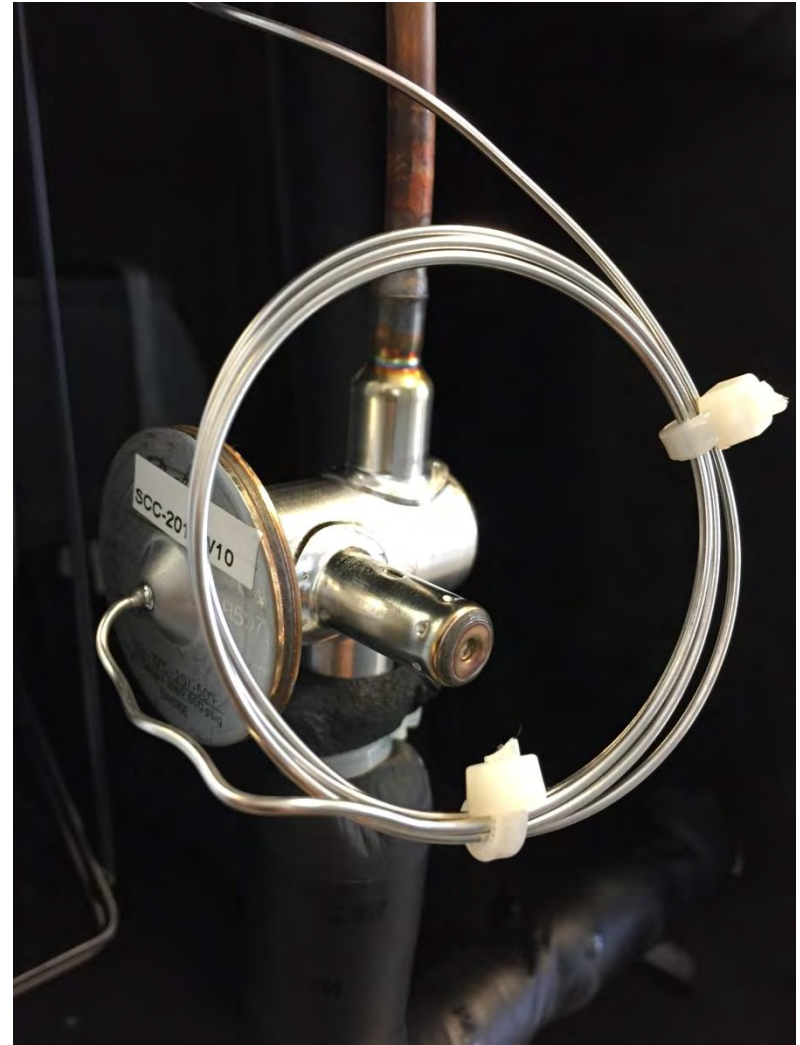
Check the operating pressures of the refrigerant system connecting the gauges on hi and low service valve.

The operating pressures at the end of the freezing cycle with unit at 21°C ambient and 10°C water inlet should be:

MODEL	Disch.Pressure Freeze max bar	Disch. Pressure Freeze min bar	Hi pressure CUT OUT bar	Suction Pressure Beginning Freeze bar	Suction Pressure end Freeze bar	Cycle time minutes
NW308AS	18	13	32,5	4,2	2,4	17
NW508AS	15,4	14	32,5	3,4	2	13
NW458AS	17	11	32,5	3	1,8	16
NW608AS	17	14	32,5	2,6	1,4	14
NW1008AS	17,5	14,5	32,5	3,2	1,7	12
NW1008AS	18	15	32,5	3	1,4	14
NW308WS	17,5	15,8	32,5	3,6	2	18
NW508WS	16	15,5	32,5	3,2	1,6	14
NW458WS	18	17,5	32,5	3	1,4	15
NW608WS	17	16	32,5	3	1,4	15
NW1008WS	18	17	32,5	3	1,7	13
NW1008WS	18	17	32,5	3	1,7	13

SERVICE ANALYSIS

If the pressures are not the right ones, it will be necessary to replace the TXV valve



SERVICE ANALYSIS

One more possible reason could be the serpentine no longer properly welded on the back side of the evaporator.



11/06/2012 15:59

SERVICE ANALYSIS

If so, ice is produced in spots, according to the different transmission of heat between the refrigerant in circulation on the serpentine and evaporator surface.



8739
Serial 00000000197
00000000197
00000000197
00000000197

END