
Scotsman®
Ice Systems
MXG SERIES
MXG SERIES
CUBERS
TECHNICAL SERVICE TRAINING
Welcome to another Scotsman technical service presentation
This one will cover the electronic MXG series Ice Cube Machines

Scotsman®
Ice Systems

NEW MXG SERIES

MXG 328 A/W

Max. Ice Production = 150 Kg/24h*

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

Small Gourmet
8 g

25,5 x mm 22,5 mm x 21 mm

Medium Gourmet
20 g

34,5 mm x 30,5 mm x 29,5 mm

Large Gourmet
39 g

41,5 mm x 38 mm x 35 mm

Scotsman®
Ice Systems

NEW MXG SERIES

MXG 428 A/W

Max. Ice Production = 195 Kg/24h*

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

Small Gourmet
8 g

25,5 x mm 22,5 mm x 21 mm

Medium Gourmet
20 g

34,5 mm x 30,5 mm x 29,5 mm

Large Gourmet
39 g

41,5 mm x 38 mm x 35 mm

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Ice Systems

NEW MXG SERIES

MXG 438 A/W

Max. Ice Production = 195 Kg/24h

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

Small Gourmet
8 g

25,5 x mm 22,5 mm x 21 mm

Medium Gourmet
20 g

34,5 mm x 30,5 mm x 29,5 mm

Large Gourmet
39 g

41,5 mm x 38 mm x 35 mm

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Ice Systems

NEW MXG SERIES

MXG 638 A/W

Max. Ice Production = 340 Kg/24h

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

Small Gourmet
8 g

25,5 x mm 22,5 mm x 21 mm

Medium Gourmet
20 g

34,5 mm x 30,5 mm x 29,5 mm

Large Gourmet
39 g

41,5 mm x 38 mm x 35 mm

Scotsman®
Ice Systems

NEW MXG SERIES

MXG 938 A/W

Max. Ice Production = 400 Kg/24h

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

Small Gourmet
8 g

25,5 x mm 22,5 mm x 21 mm

Medium Gourmet
20 g

34,5 mm x 30,5 mm x 29,5 mm

Large Gourmet
39 g

41,5 mm x 38 mm x 35 mm

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NEW MXG SERIES

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**

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NEW MXG SERIES

UNPACKING

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NEW MXG SERIES

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.

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NEW MXG SERIES

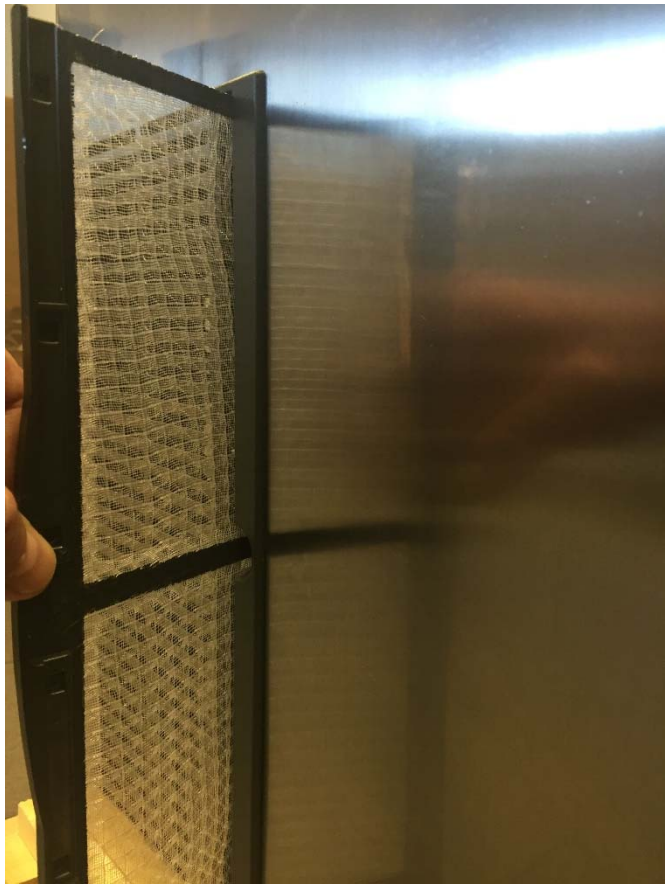
UNPACKING

Slip away – remove

plastic strip

UNPACKING

Remove front panel air filter (AC version only)



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NEW MXG SERIES

UNPACKING

Remove front panel screws and the panel

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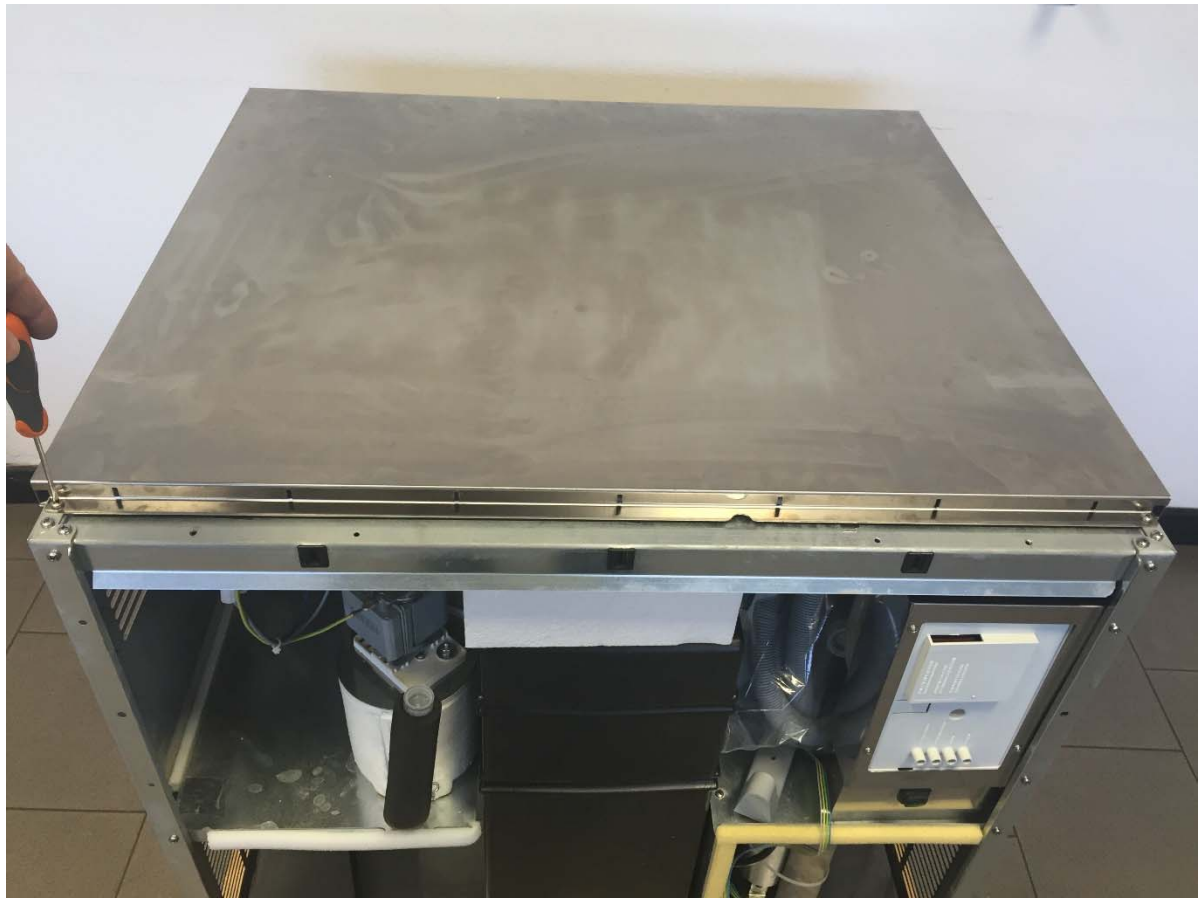
NEW MXG SERIES

UNPACKING

Remove top panel screws and the panel



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NEW MXG SERIES

UNPACKING

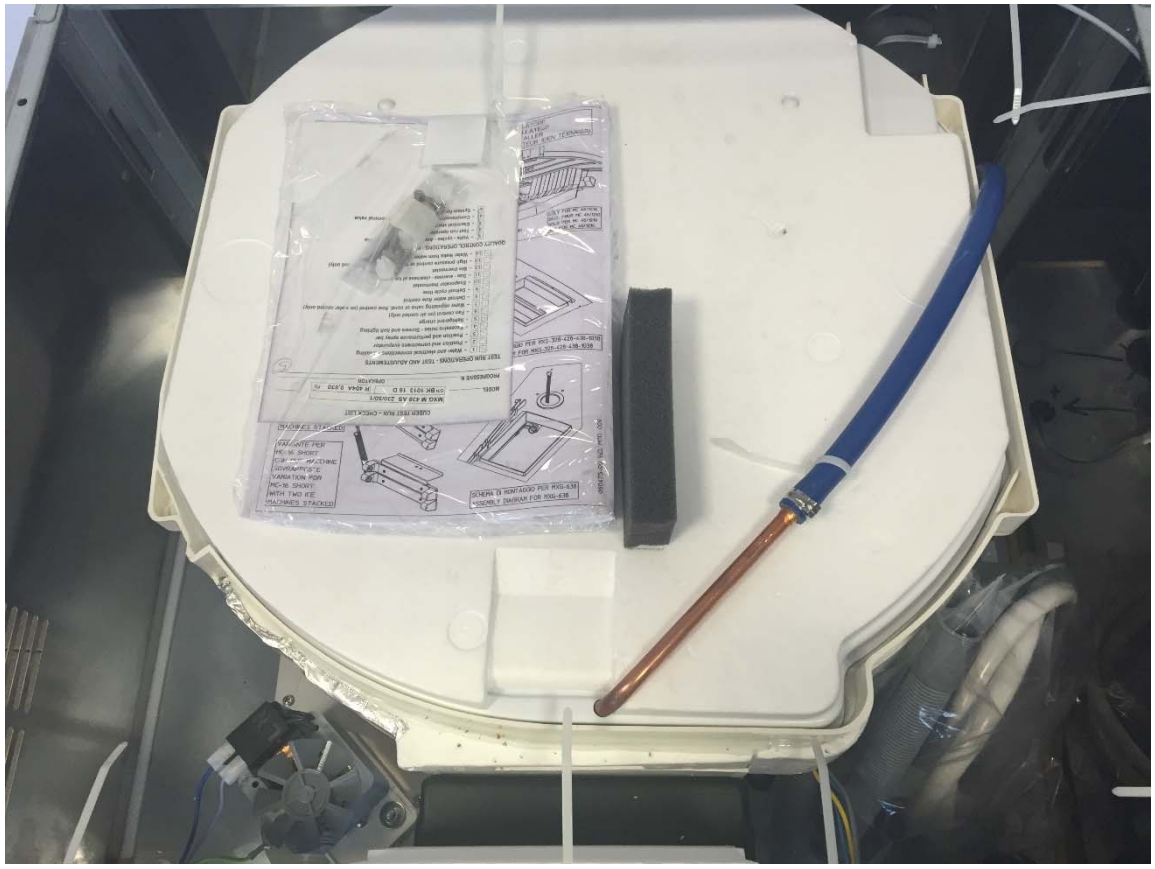
Remove I/R bracket

installation

instruction and

water inlet and

outlet hoses



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NEW MXG SERIES

UNPACKING

Remove side panels screws and the panels

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NEW MXG SERIES

UNPACKING

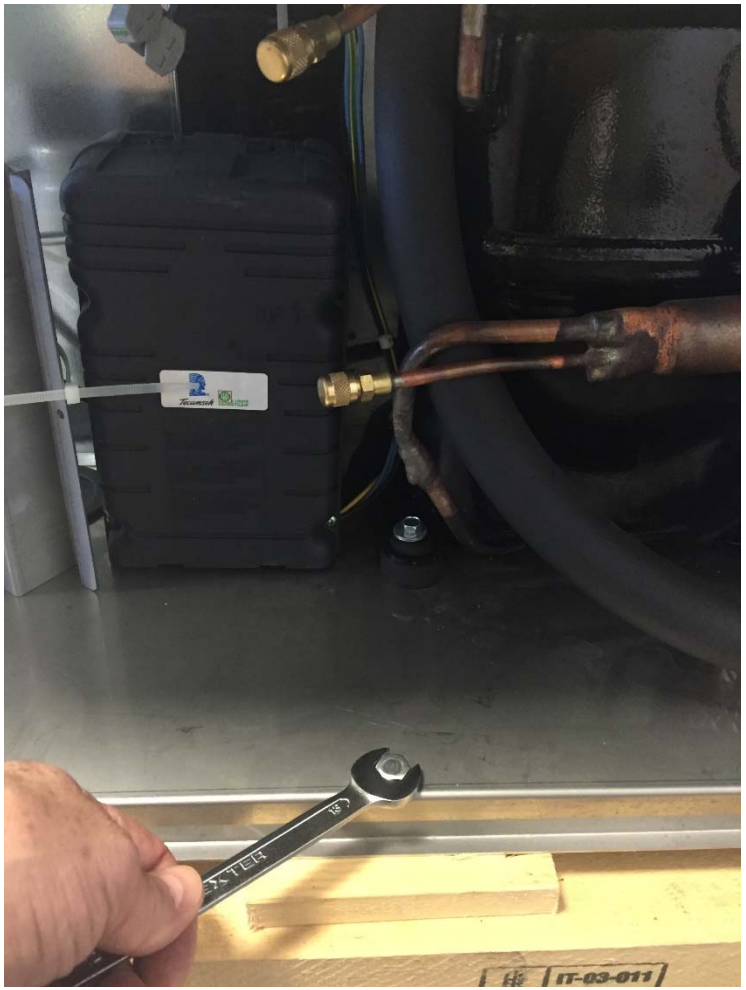
…..unscrew

the unit

frame from

the wooden

base….



Scotsman Ice Systems

NEW MXG SERIES

UNPACKING

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

Perfect “matching” storage been are:

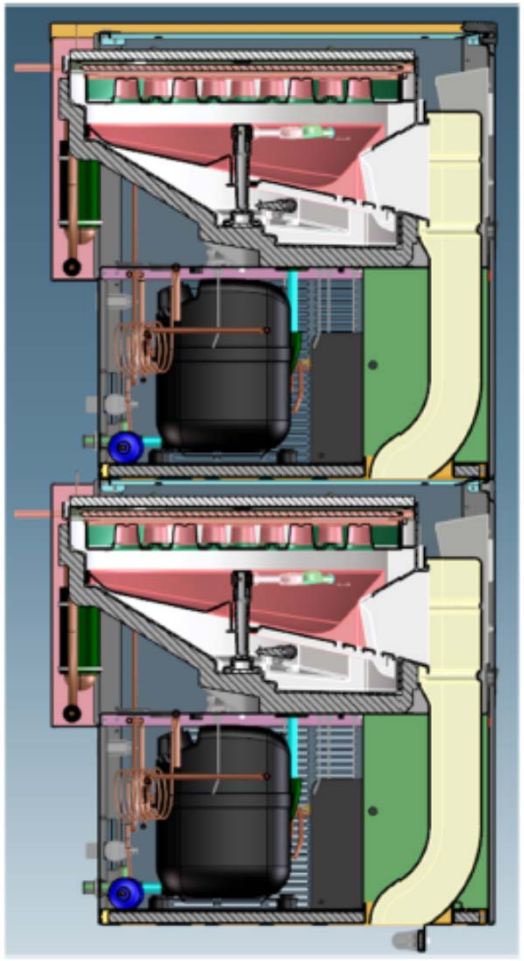
SB 193 – 322 for MXG 328-428

SB 393 – 530 for MXG 438-638-938

UNPACKING

Due to design reason MXG series can not be stacked:

- Ice chutes not aligned
- Not enough space for Service over the bottom unit top evaporator
- Not possible to remove bottom unit front panel



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NEW MXG SERIES

INSTALLATION

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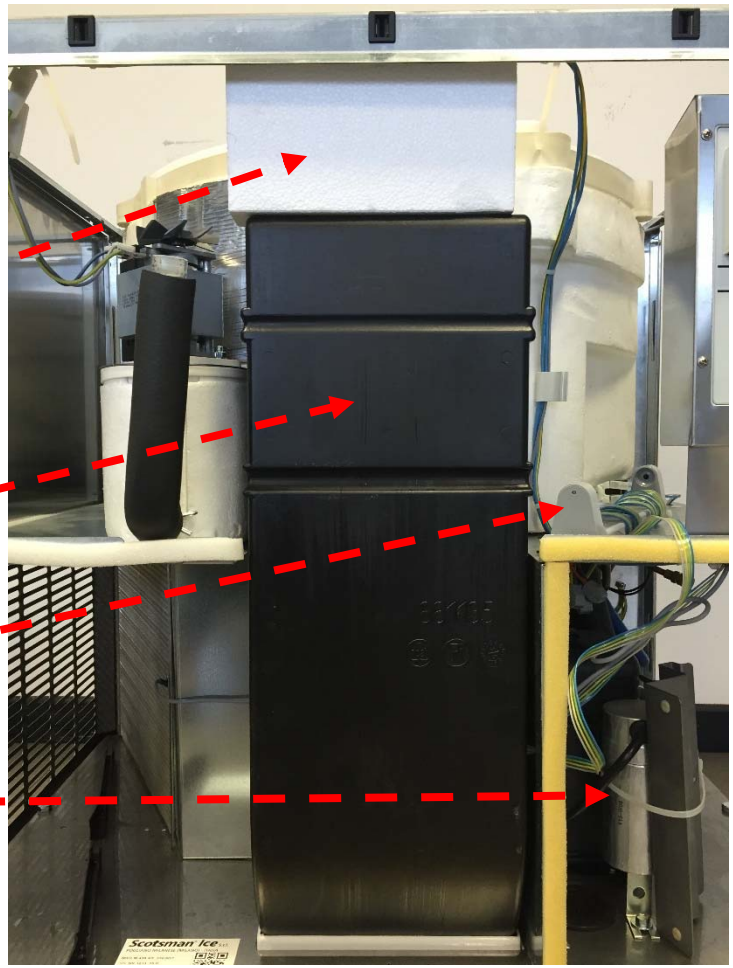
NEW MXG SERIES

INSTALLATION

After having installed the ice maker on top of chosen bin, remove polystyrene block form ice chute top and remove the ice chute.

locate I/R and its bracket, release the same from clamps

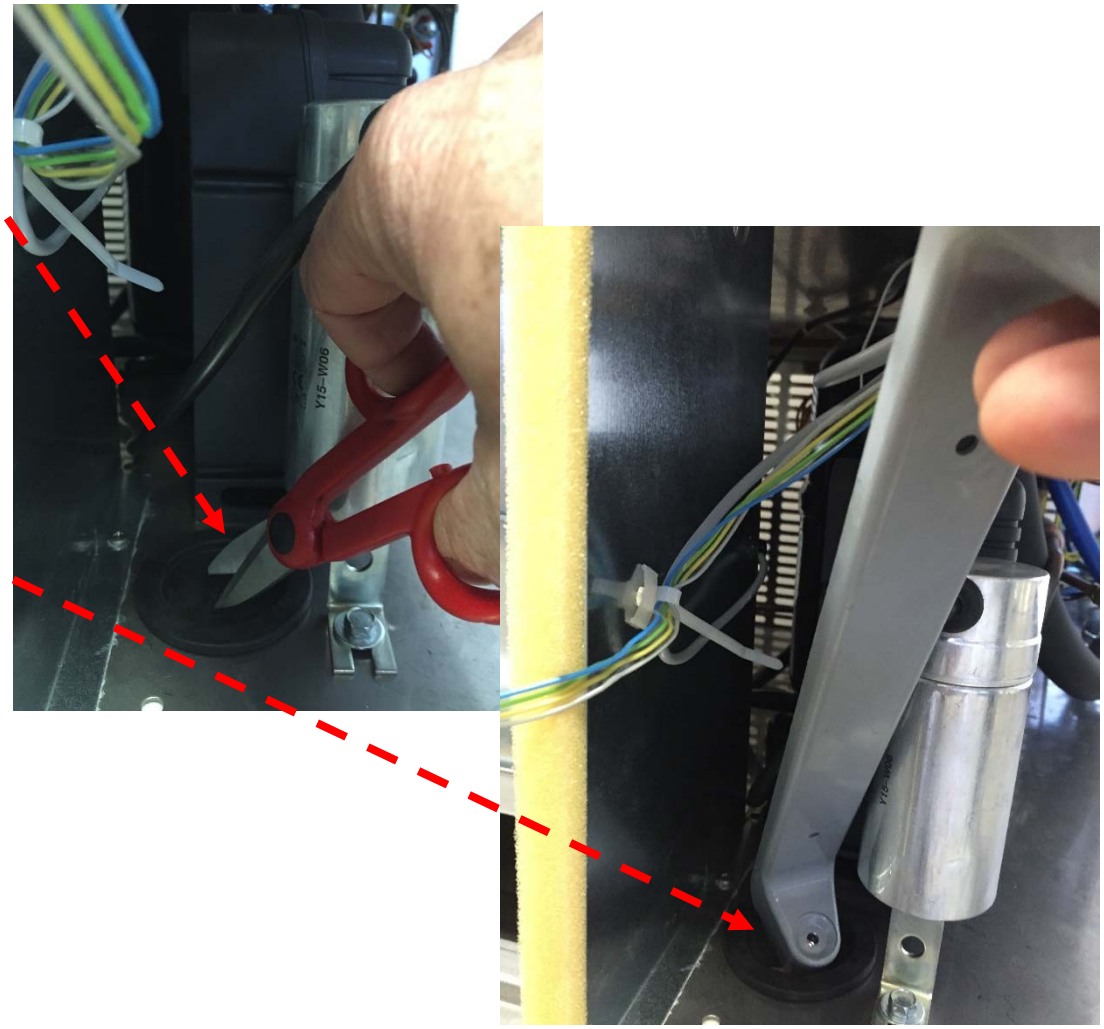


Scotsman Ice Systems

NEW MXG SERIES

INSTALLATION

Cut the unit base gasket , pass the I/R sensor through the same reaching the inner bin area.



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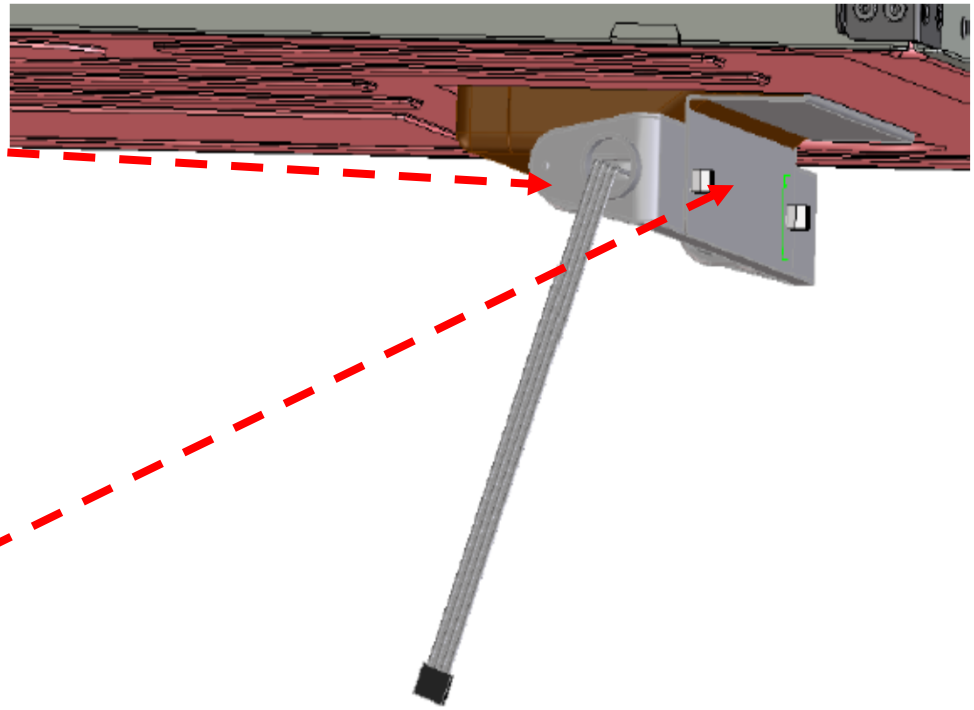
INSTALLATION

Fix the IR by supplied screws to related bracket



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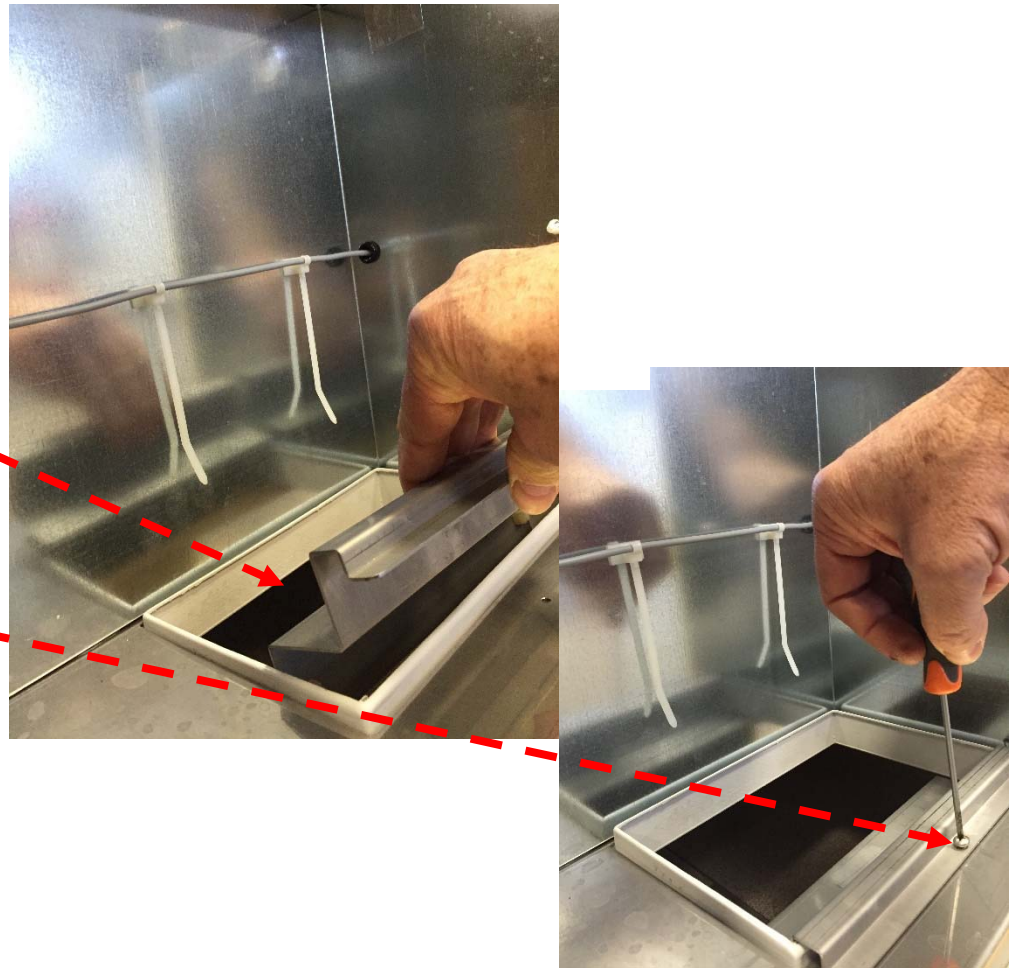
NEW MXG SERIES

INSTALLATION

Fix IR bracket at ice chute discharge area by stainless steel screw



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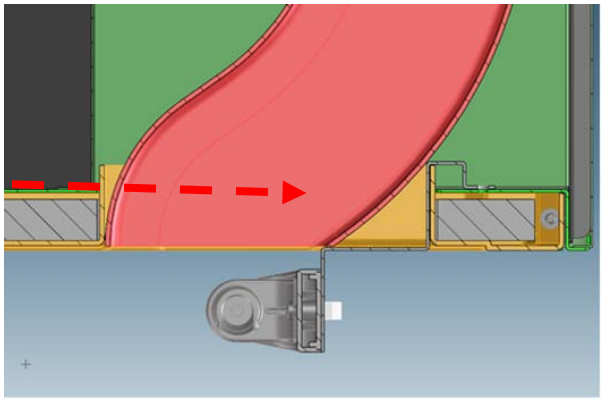
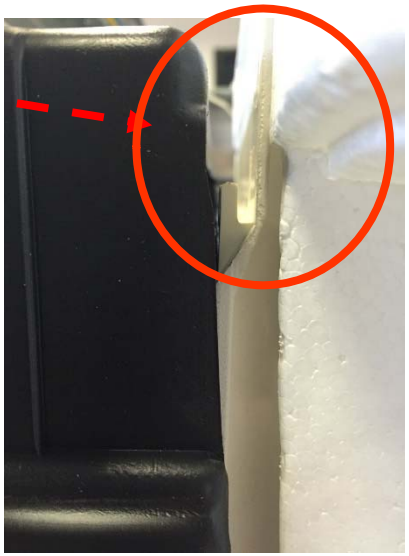
NEW MXG SERIES

INSTALLATION

Once installed optical level sensor, re-install ice chute previously removed paying attention to hang the same to its hook rim point.





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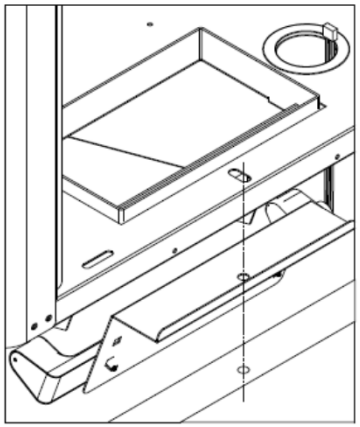
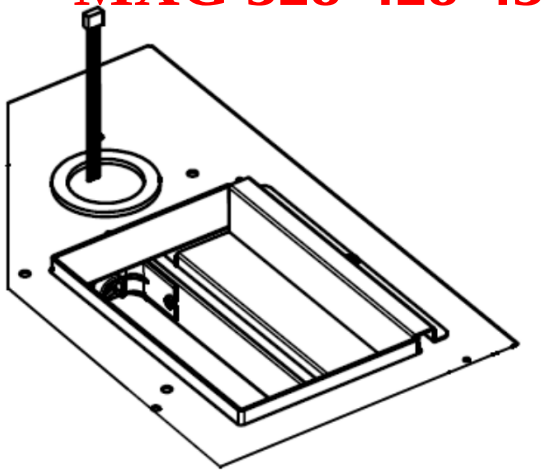
NEW MXG SERIES

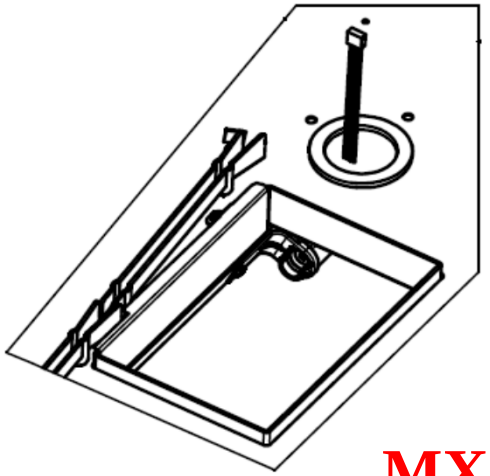
INSTALLATION

Note different location according to MXG models





MXG 328-428-438-938



MXG 638

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NEW MXG SERIES

INSTALLATION

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.

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INSTALLATION

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

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

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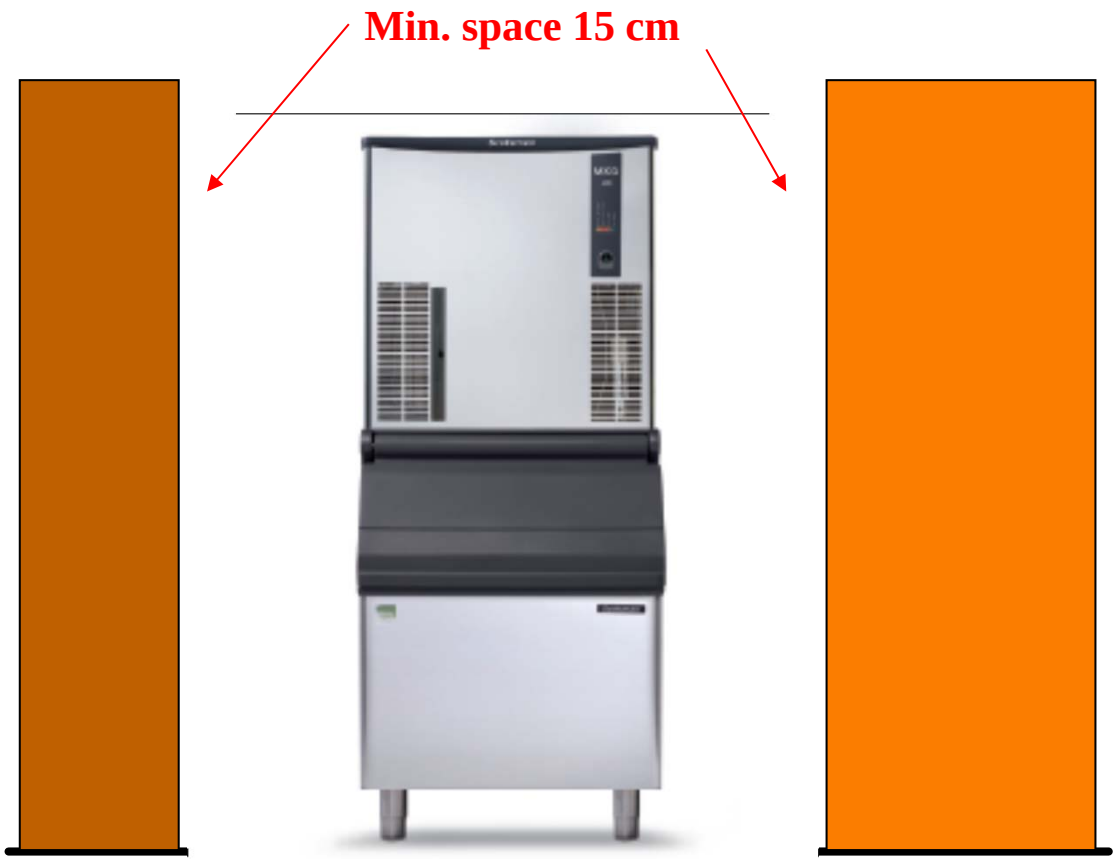
NEW MXG SERIES

INSTALLATION

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



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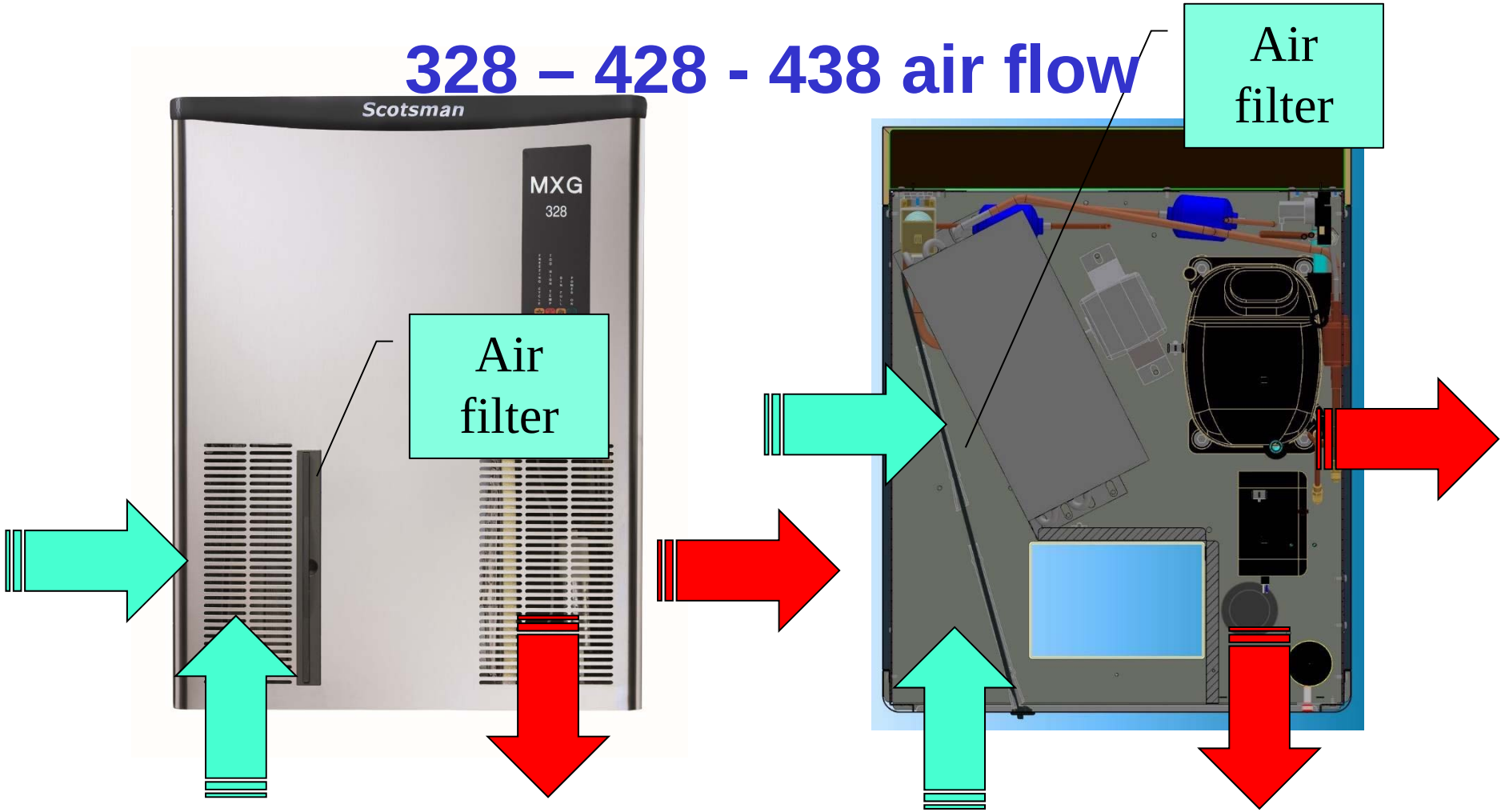
NEW MXG SERIES

INSTALLATION

328 – 428 - 438 air flow



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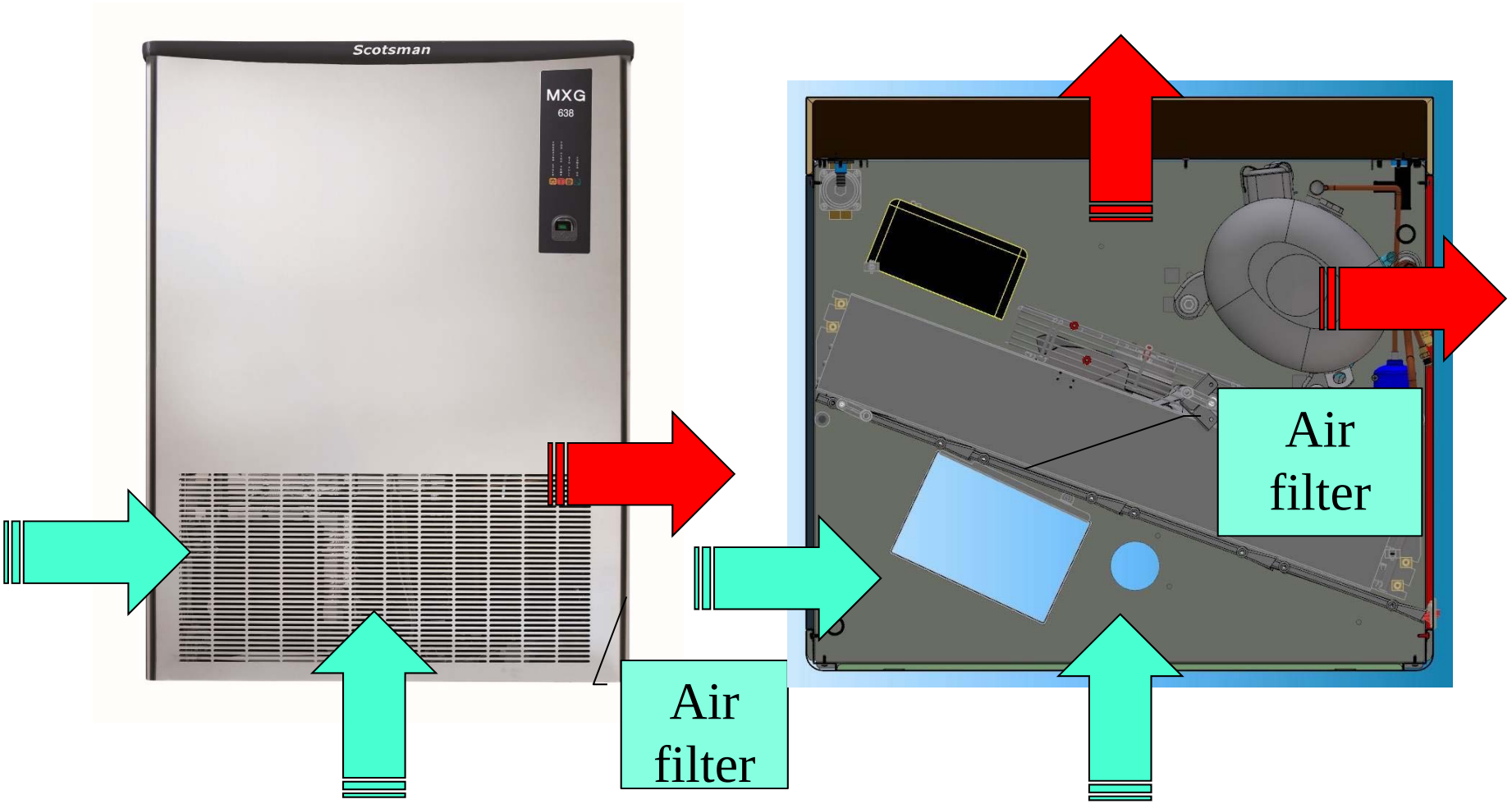
NEW MXG SERIES

INSTALLATION

638 air flow



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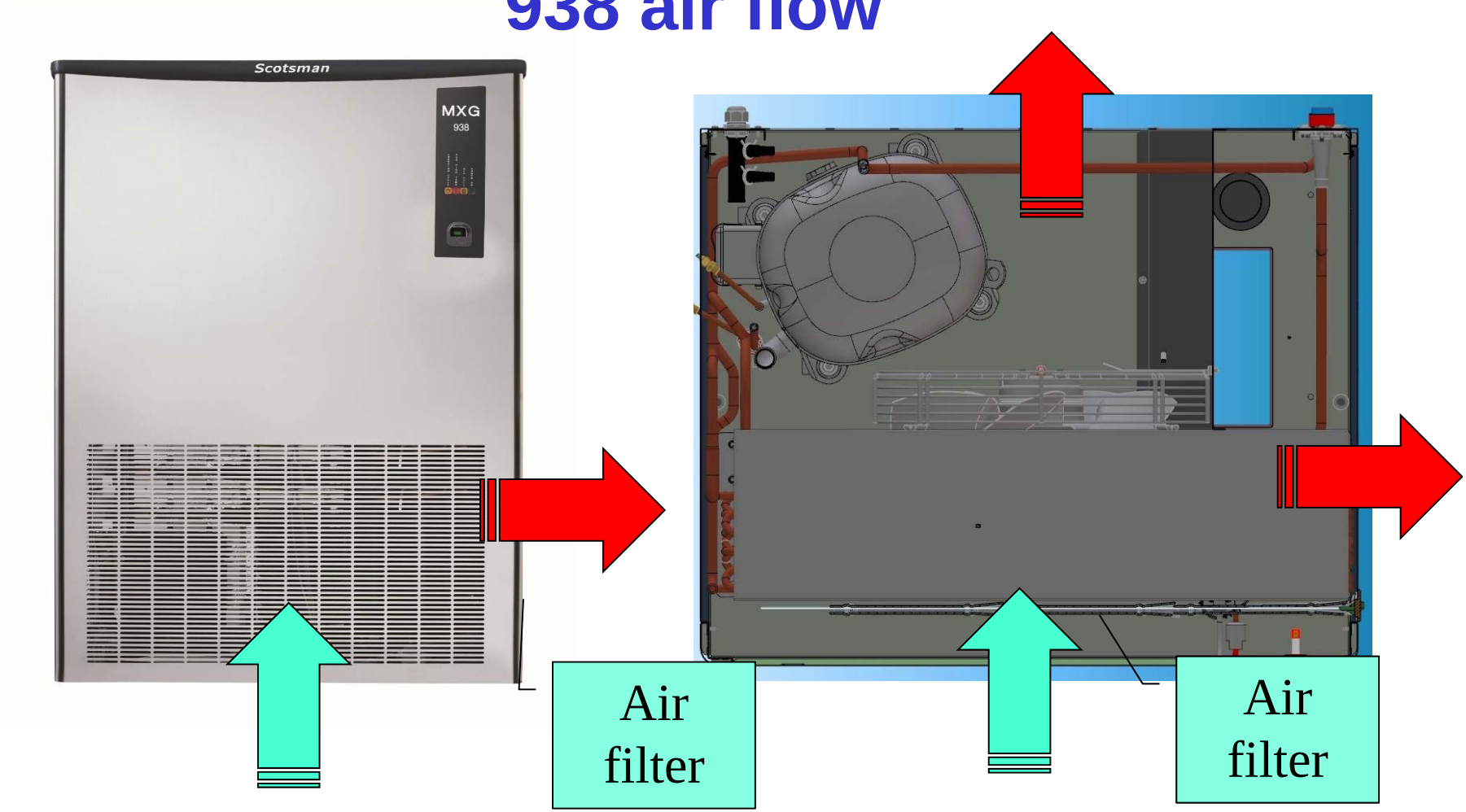
NEW MXG SERIES

INSTALLATION

938 air flow



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NEW MXG SERIES

STACKING INSTALLATION

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

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INSTALLATION - ELECTRICAL

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

Maximum voltage variation should be ±10%.

Machine must be individually fuse protected.

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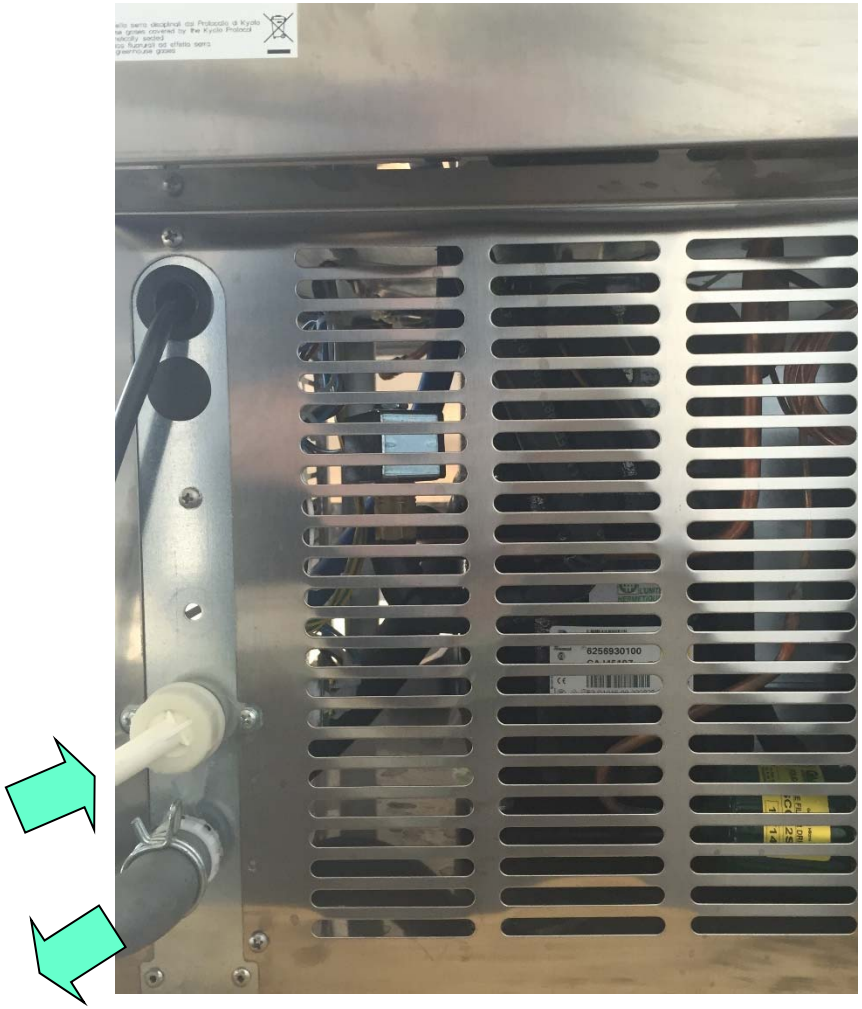
NEW MXG SERIES

INSTALLATION – WATER PIPING

Connect the water inlet 3/4” male threat of the water inlet solenoid valve to the water supply line by means of the rubber hose provided with machine.Install on water supply line closed to the machine a water valve (tap).

Connect the 20 mm O.D. fitting of the water drain with the flexible hose supply with the machine securing it by proper



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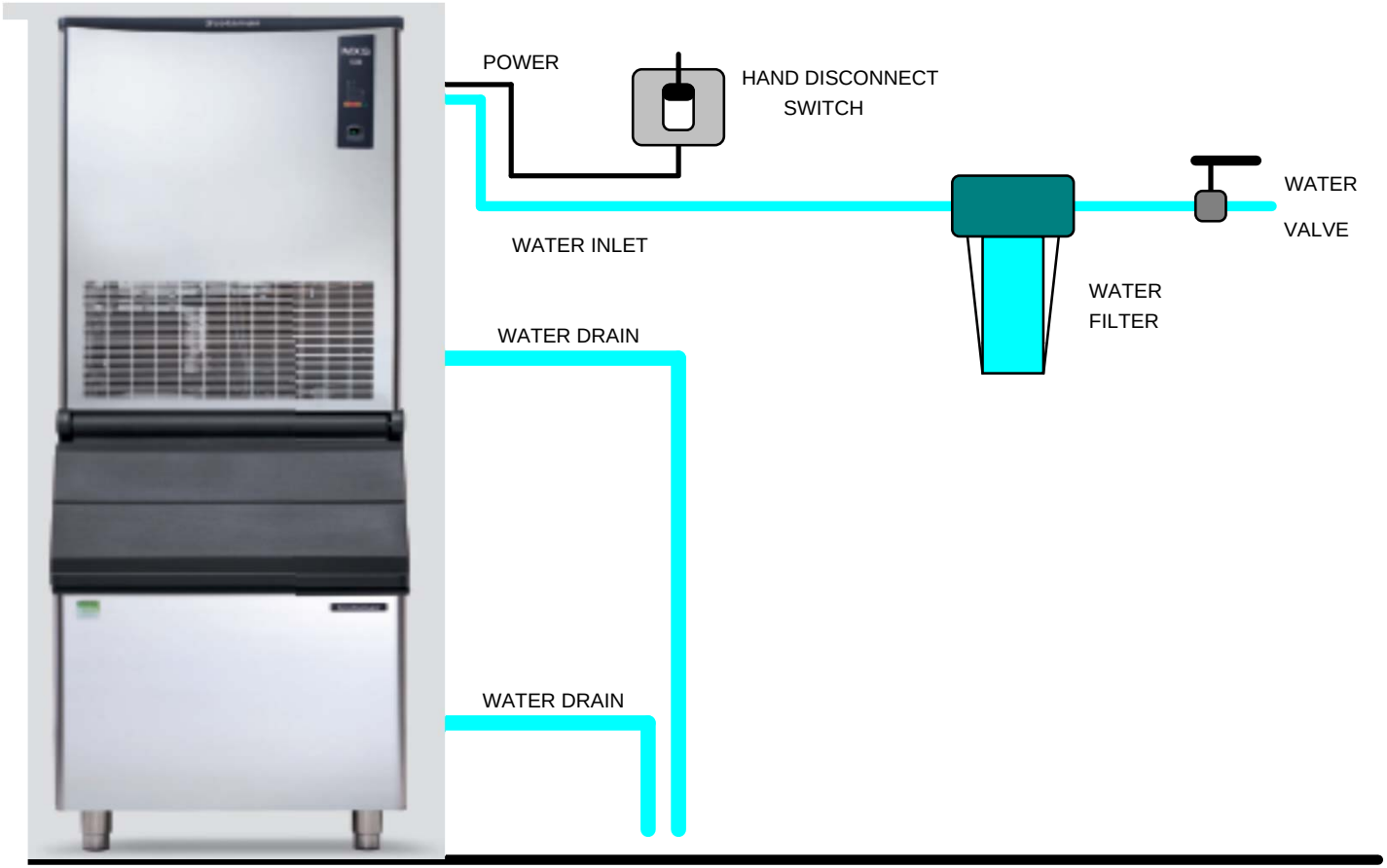
NEW MXG SERIES

TYPICAL INSTALLATION

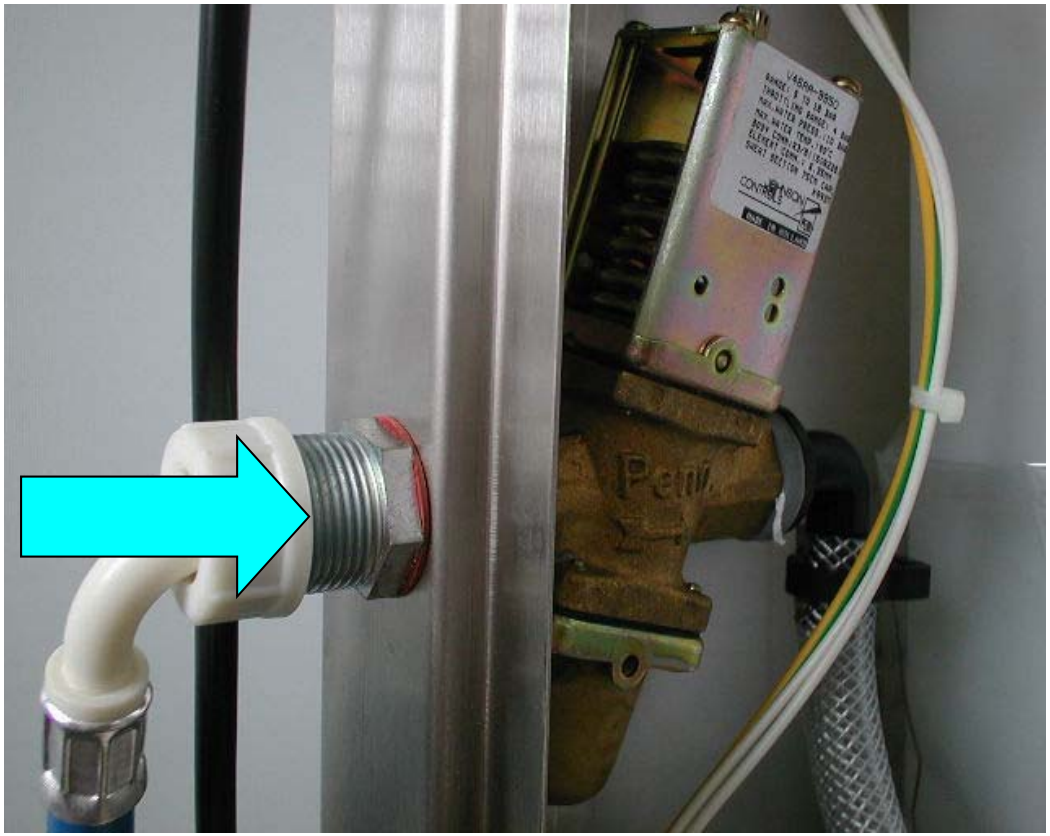
AIR COOLED VERSION



Scotsman Ice Systems

INSTALLATION

On the water cooled version there are two separate 3/4” male thread water inlet fittings…..



Scotsman Ice Systems

NEW MXG SERIES

INSTALLATION

…..a second separate

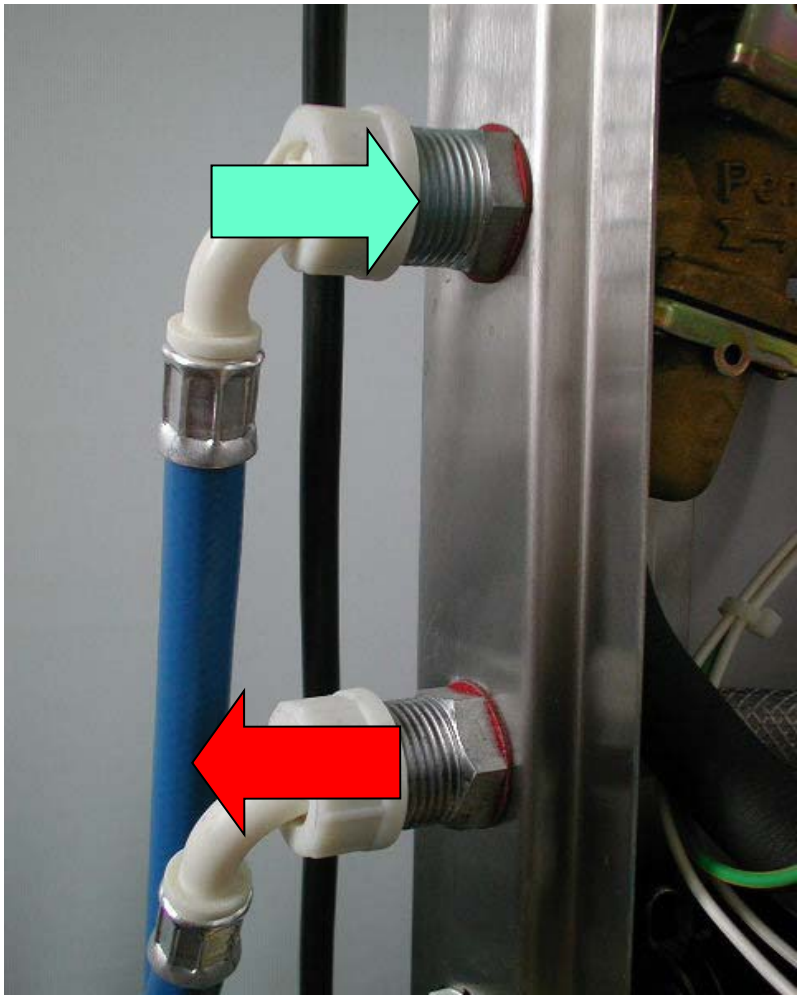
drain hose must be

connected to the outlet

3/4” male fitting located

on the upper side of the

water regulating valve.



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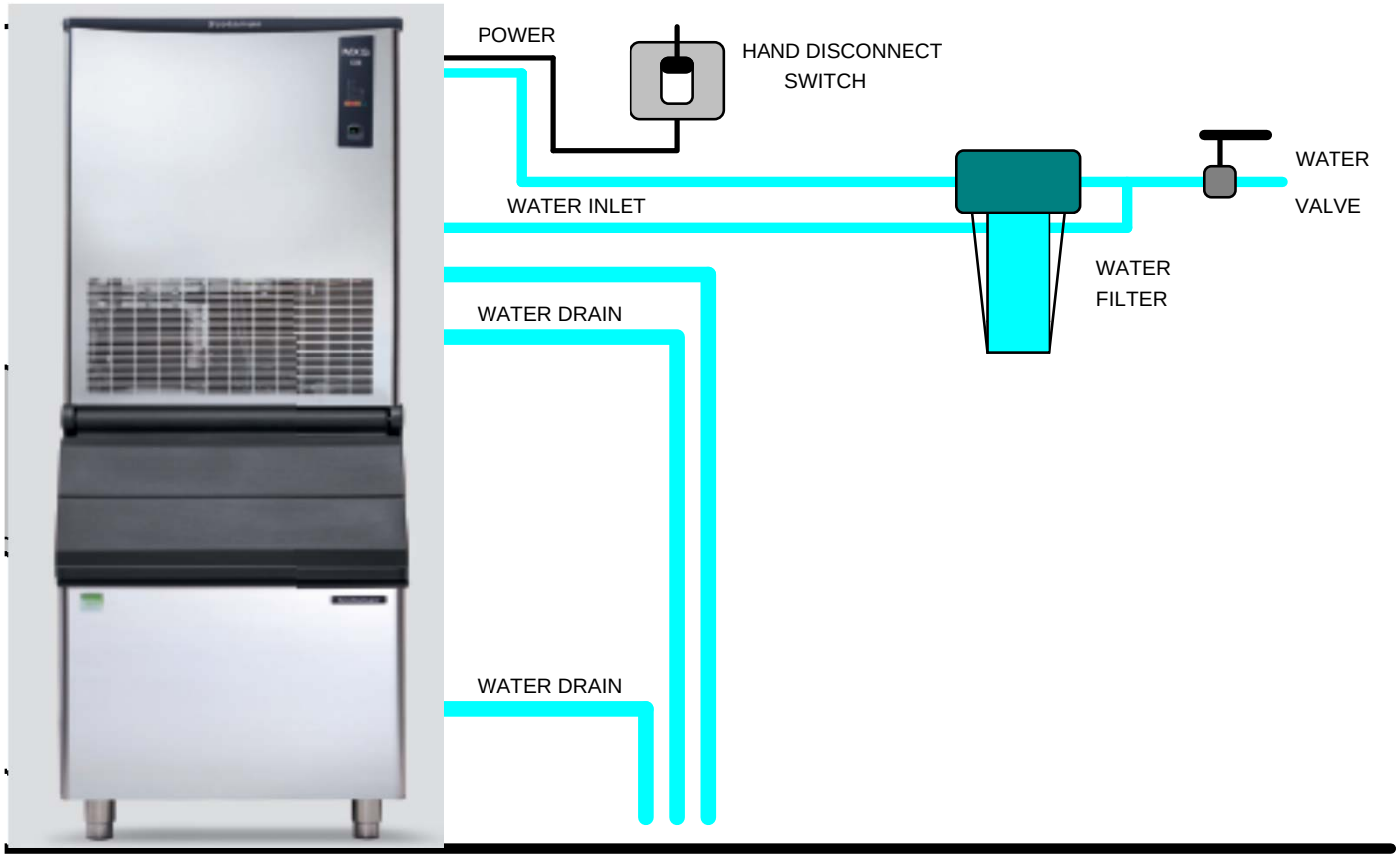
NEW MXG SERIES

TYPICAL INSTALLATION

WATER COOLED VERSION



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NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

Scotsman Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

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

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START UP AND OPERATIONAL CHECKS

Green Lighted Master Push Switch located in the front panel.

By pushing it is possible to Switch ON and OFF the machine.

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NEW MXG SERIES

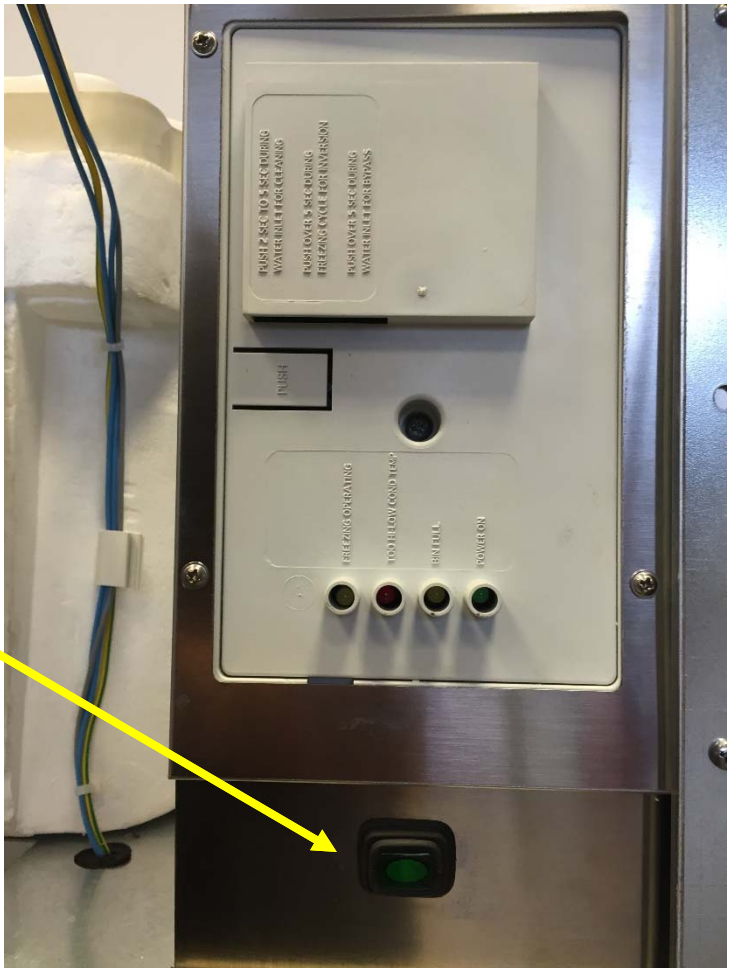
START UP AND OPERATIONAL CHECKS

Push the Green

Push Button

Switch to Start

Up the machine



Scotsman Ice Systems

NEW MXG SERIES

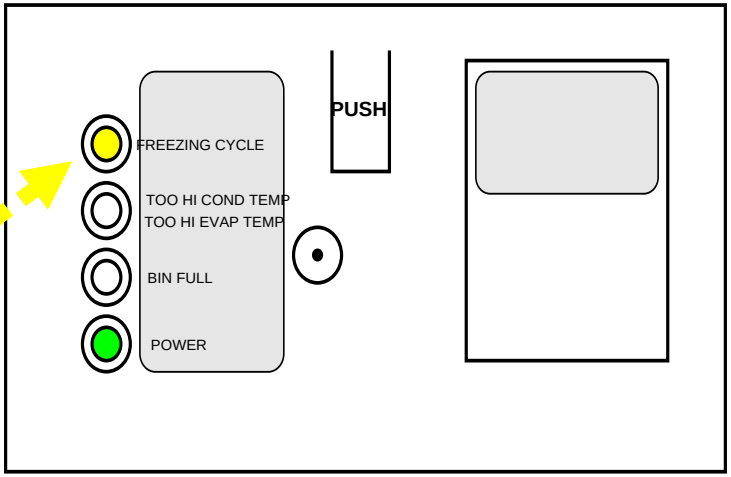
START UP AND OPERATIONAL CHECKS

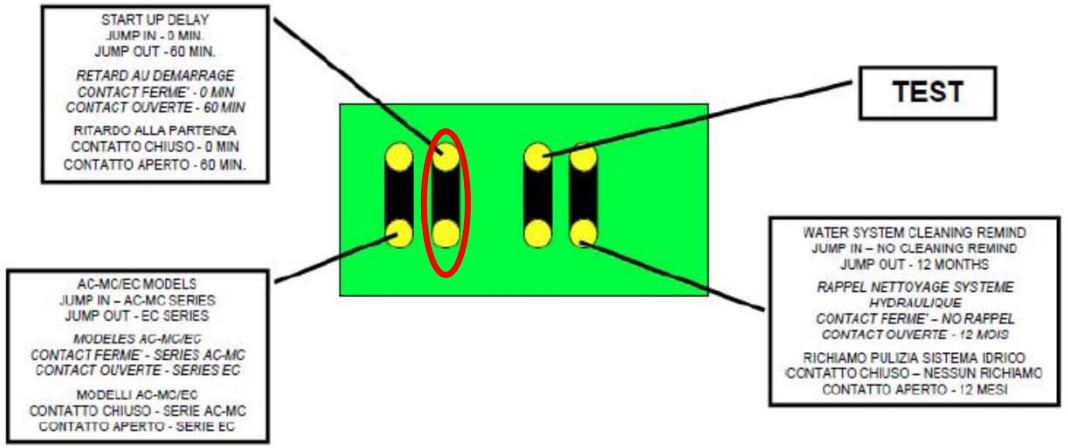
A start-up delay is factory set at 60’ on the models MXG 638 - 938 with the Yellow LED blinking.

This delay can be set up with the Jumper n.3

Jump IN = 0’

Jump OUT = 60’





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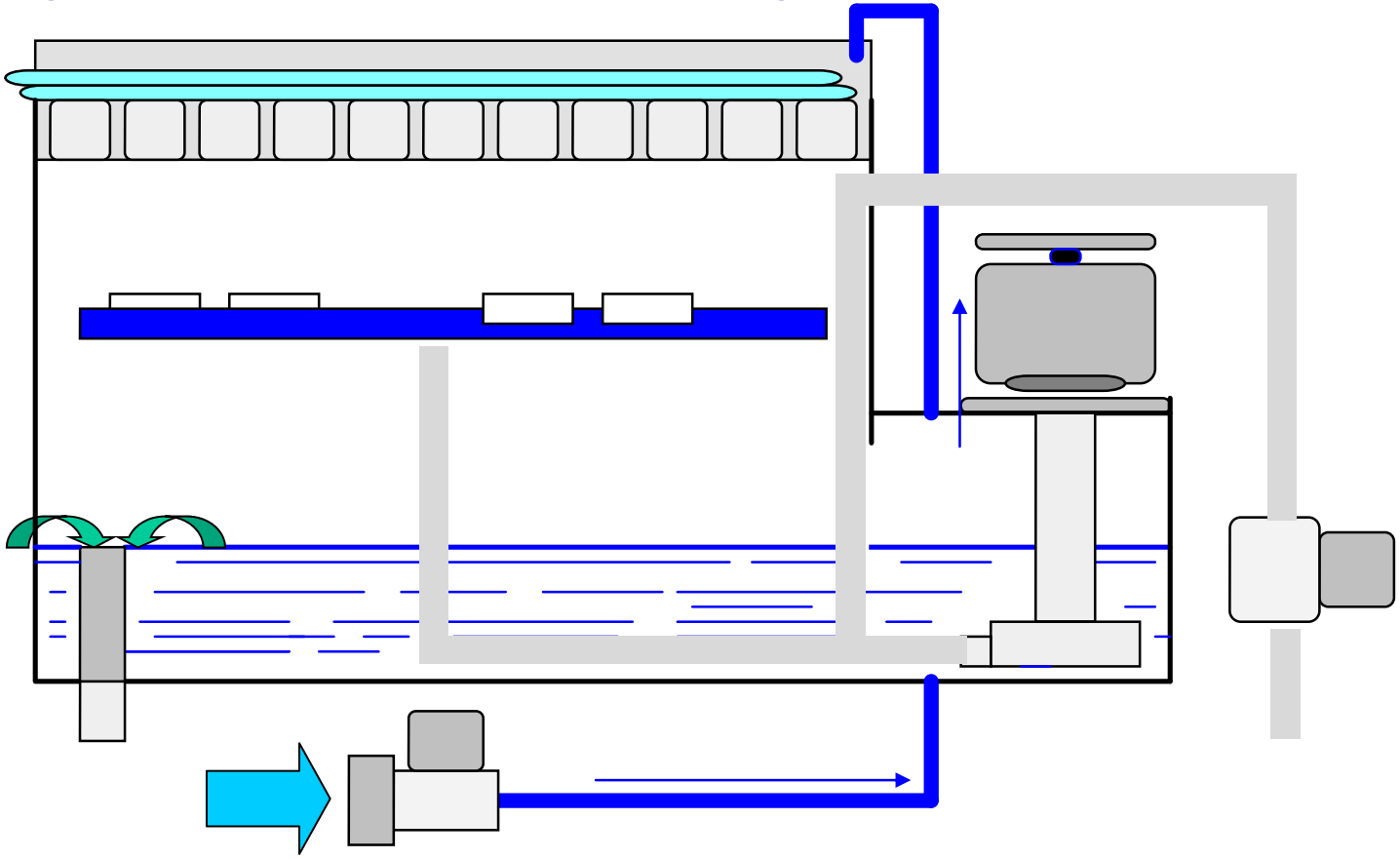
NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

Once the start delay is elapsed the Ice Machine will start up automatically through the 5 minutes of “Water Filling Phase”.



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START UP AND OPERATIONAL CHECKS

The components energized during this period are:

- **PC Board**

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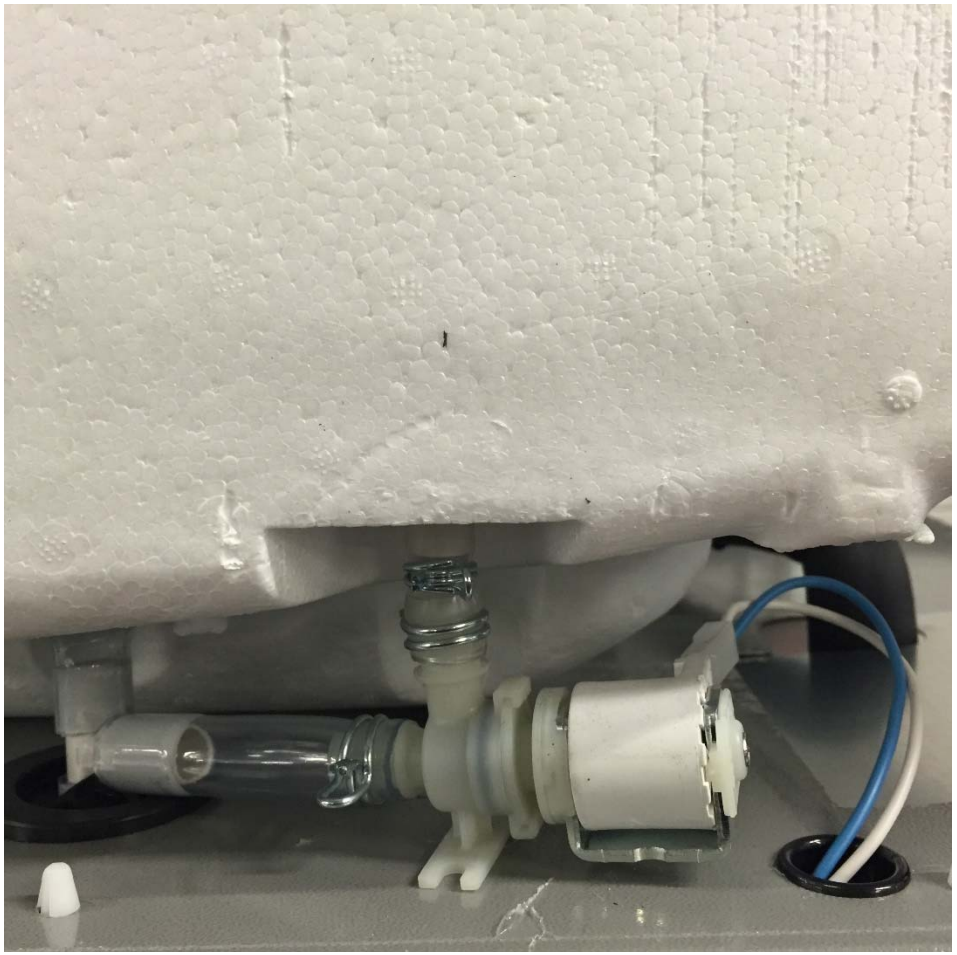
START UP AND OPERATIONAL CHECKS

- **Water Inlet Solenoid Valve**

START UP AND OPERATIONAL CHECKS

- **Water drain valve**



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START UP AND OPERATIONAL CHECKS

- **Hot Gas Solenoid Valve**

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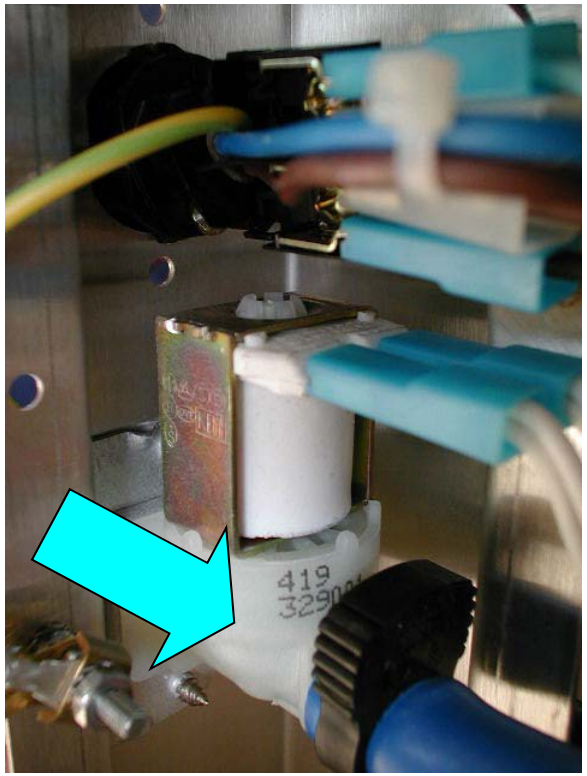
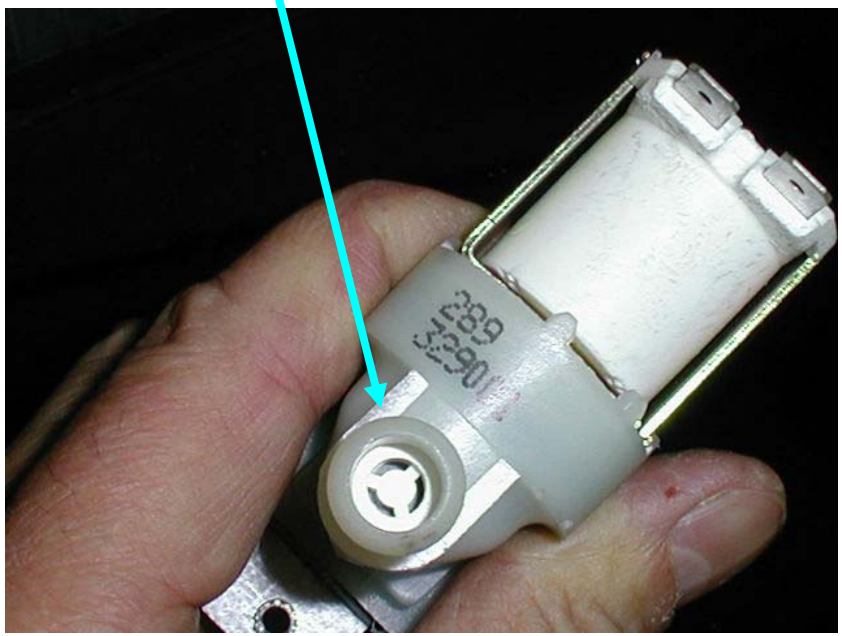
NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

During the first 5’ the water goes through the Water Inlet Valve then…



….flows into the small orifice of the “Flow Control” located on the outlet port of the same.



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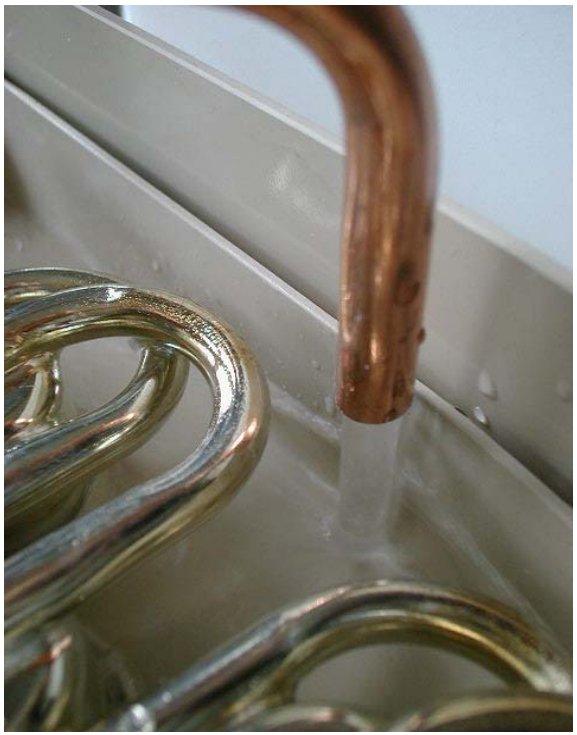
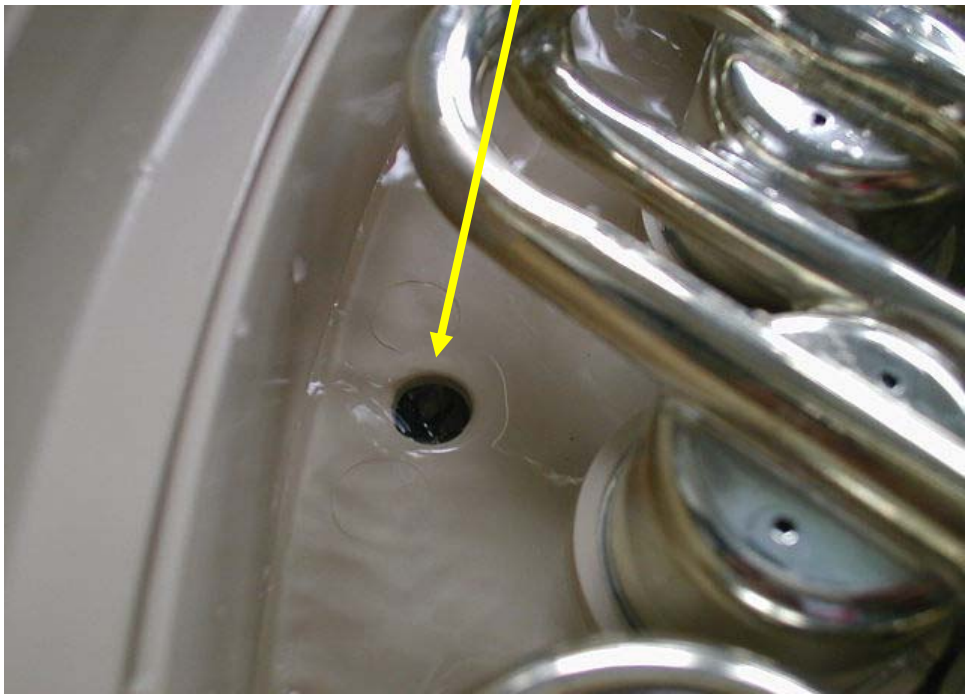
NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

Following the plastic inlet hose the incoming water arrive on the upper side of the evaporator….



.... where it flows onto the plastic evaporator platen dribbling down through the holes located on the corners.



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NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

Dribbled water is collected down into the water sump where is located the overflow that assures the proper water level and quantity for the next freezing cycle.

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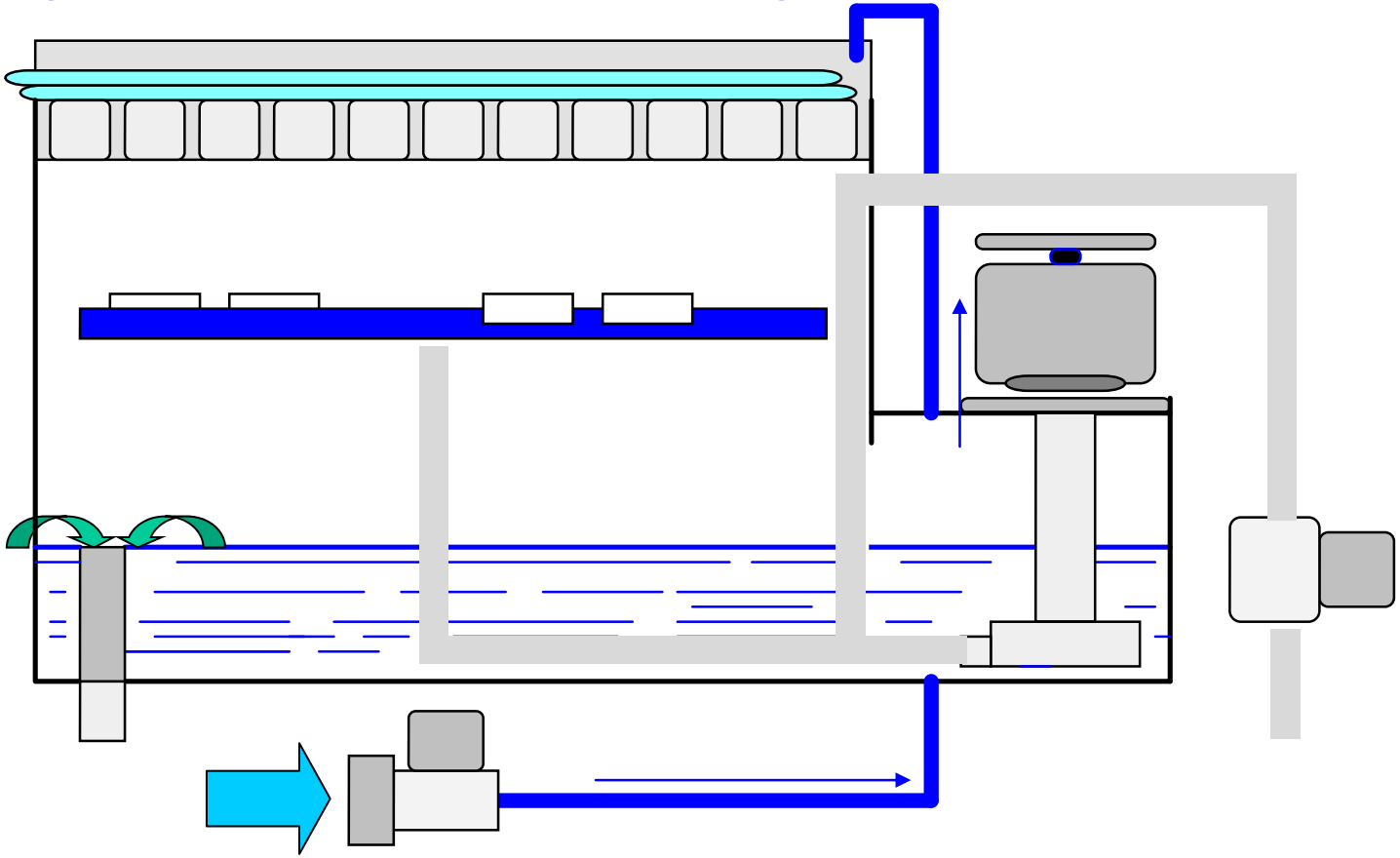
NEW MXGSERIES

START UP AND OPERATIONAL CHECKS

Once the start delay is elapsed the Ice Machine will start up automatically through the 5 minutes of “Water Filling Phase”.



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NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

After the first 5’ of water filling phase the machine start up automatically on freezing cycle with the following electrical components in operation:

- **Compressor**

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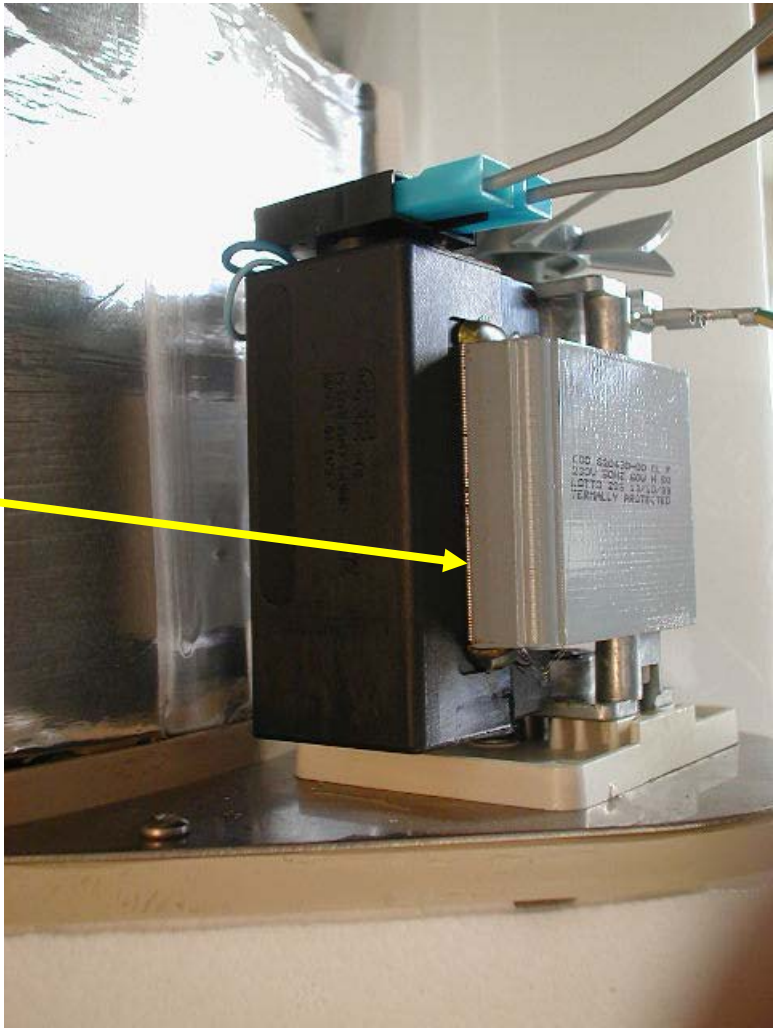
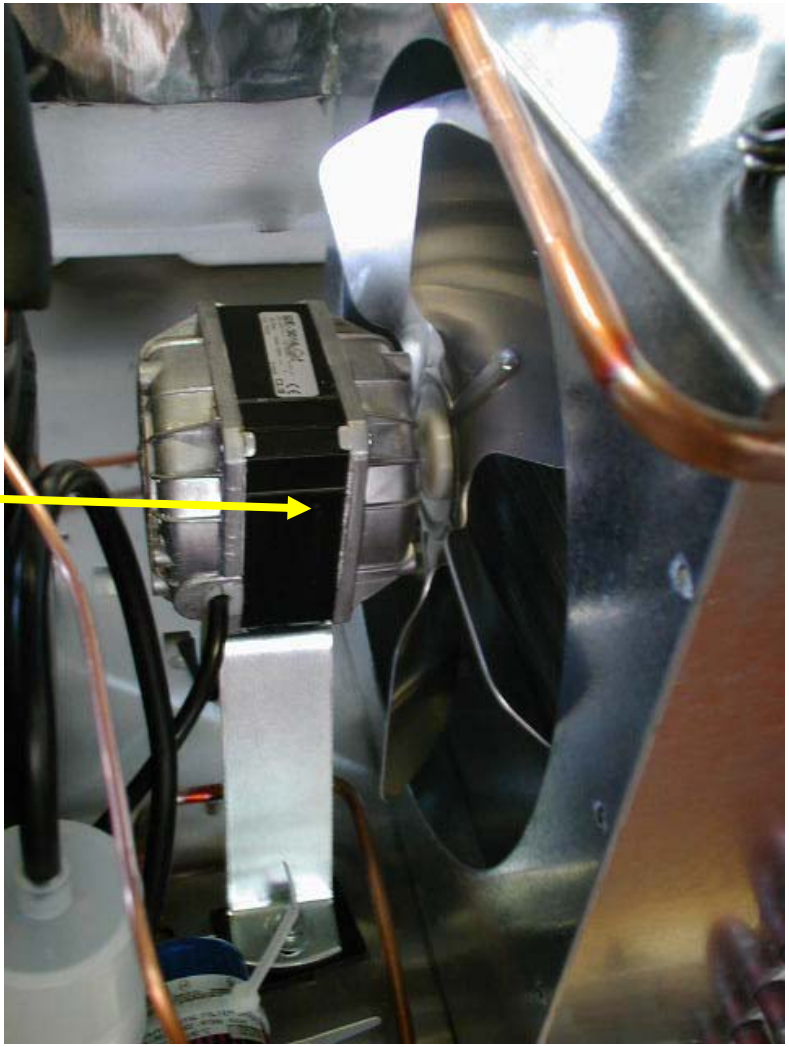
START UP AND OPERATIONAL CHECKS

- **Water Pump**



START UP AND OPERATIONAL CHECKS

- **Fan Motor (on air cooled version only)**



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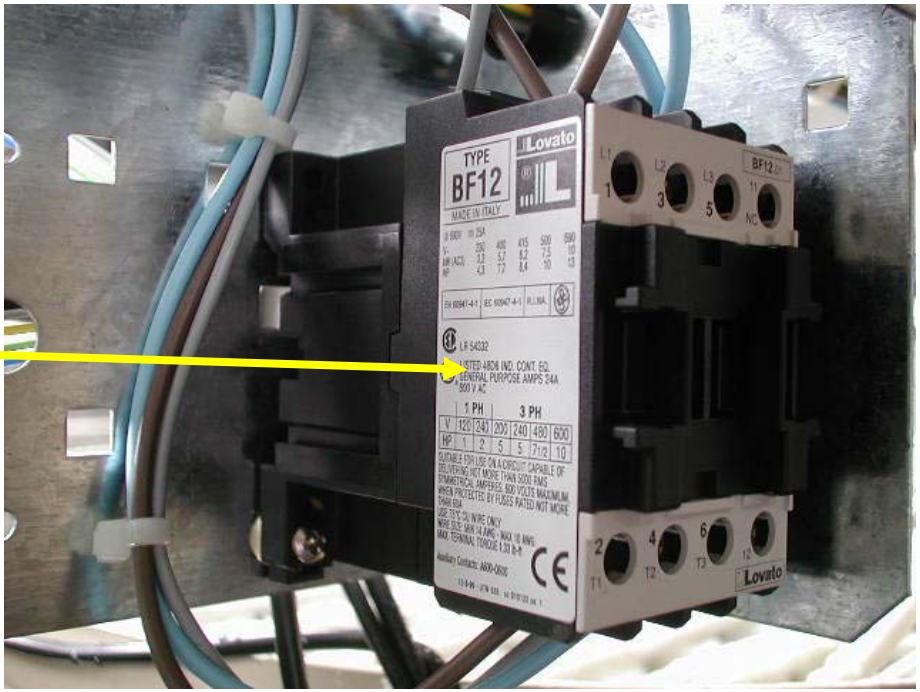
NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

- Contactor



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NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

The operation of the fan motor is controlled by a condenser temperature sensor located within the fins of condenser that transmit a signal to the PC Board to activate in ON-OFF mode the fan motor so to keep between two pre-set values the condenser temperature and pressure.

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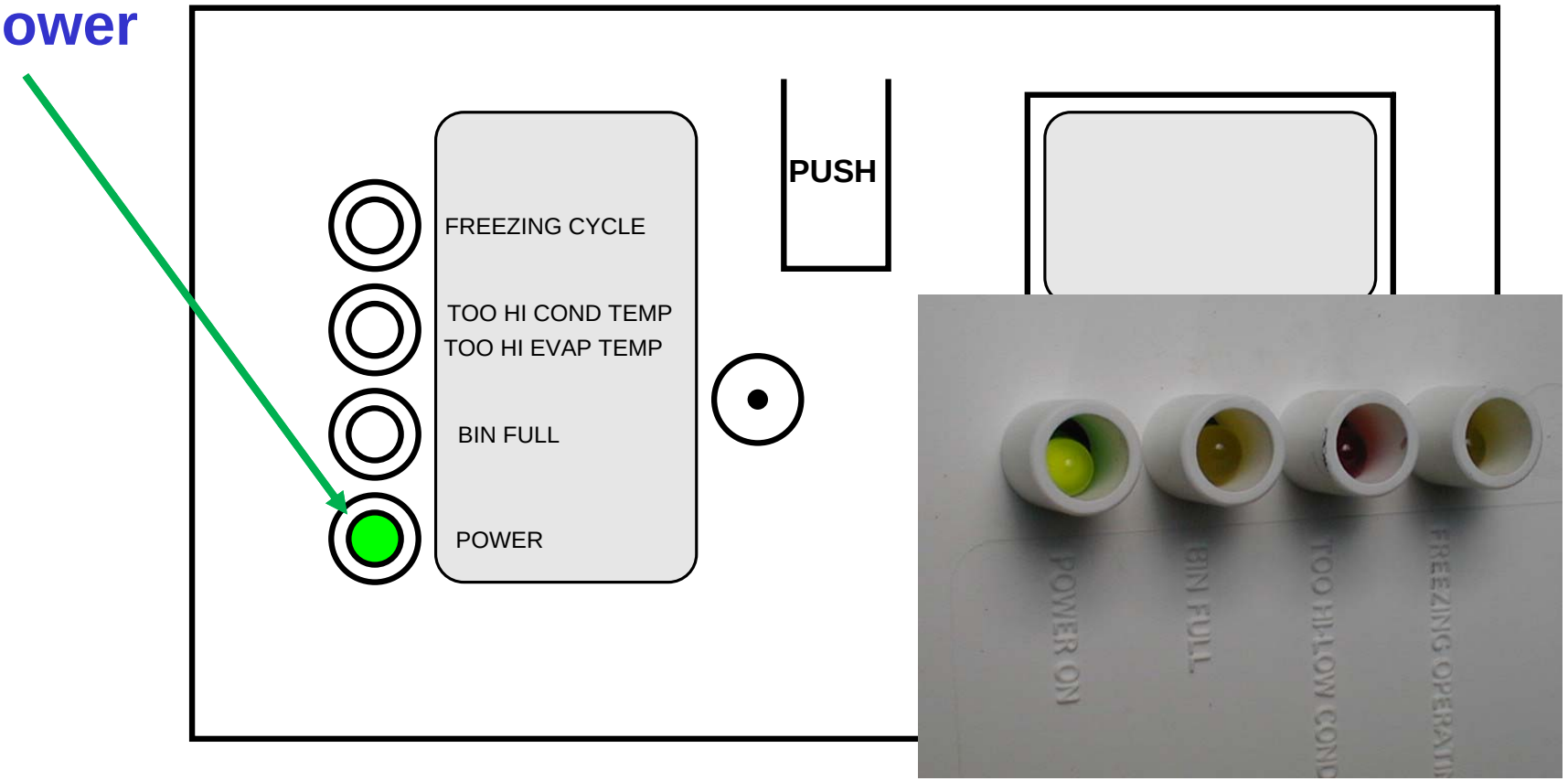
NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

On PC Board the LED energized are:

- **Power**



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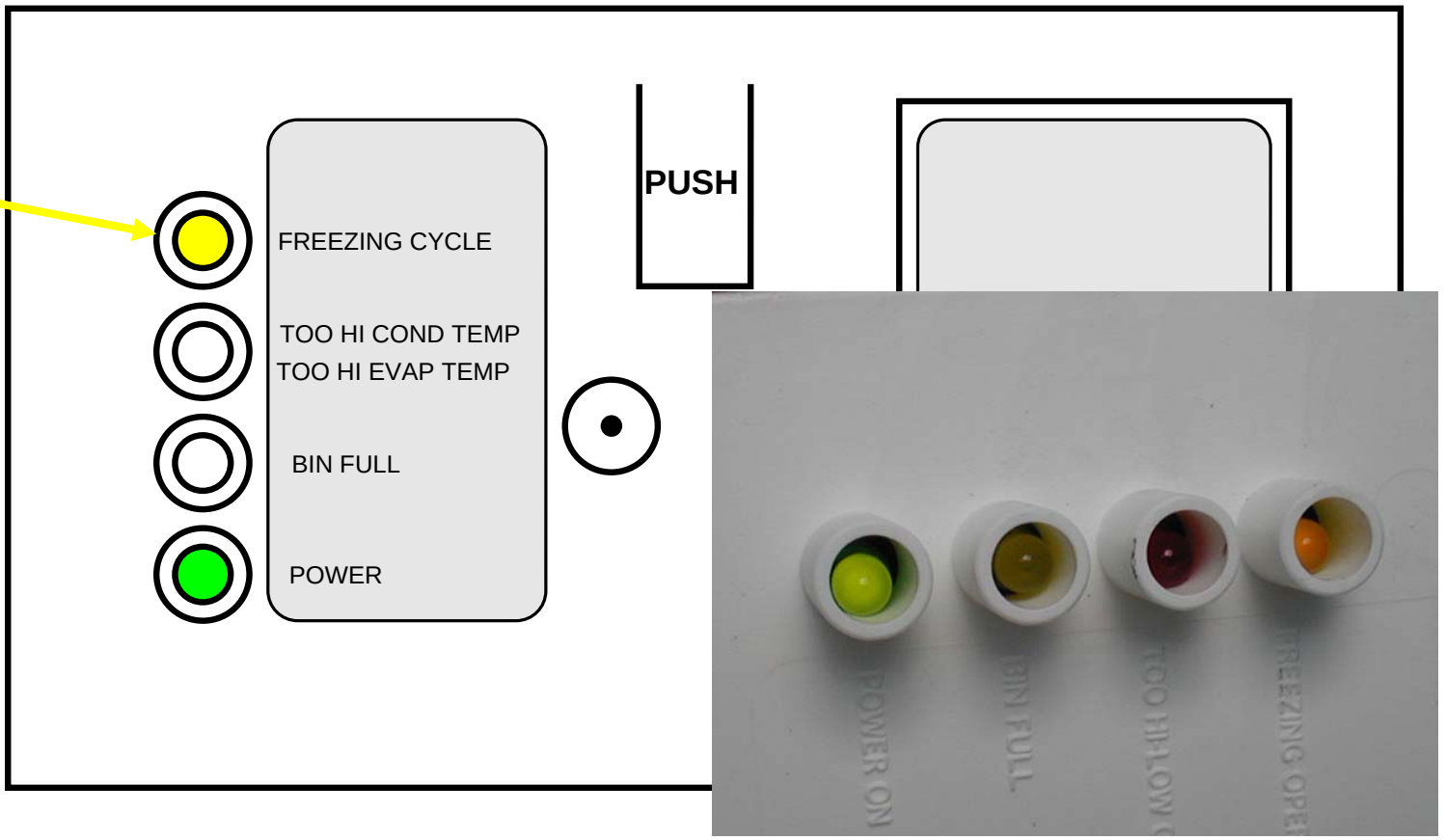
NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

On PC Board the LED energized are:

- Power
- **Freezing**



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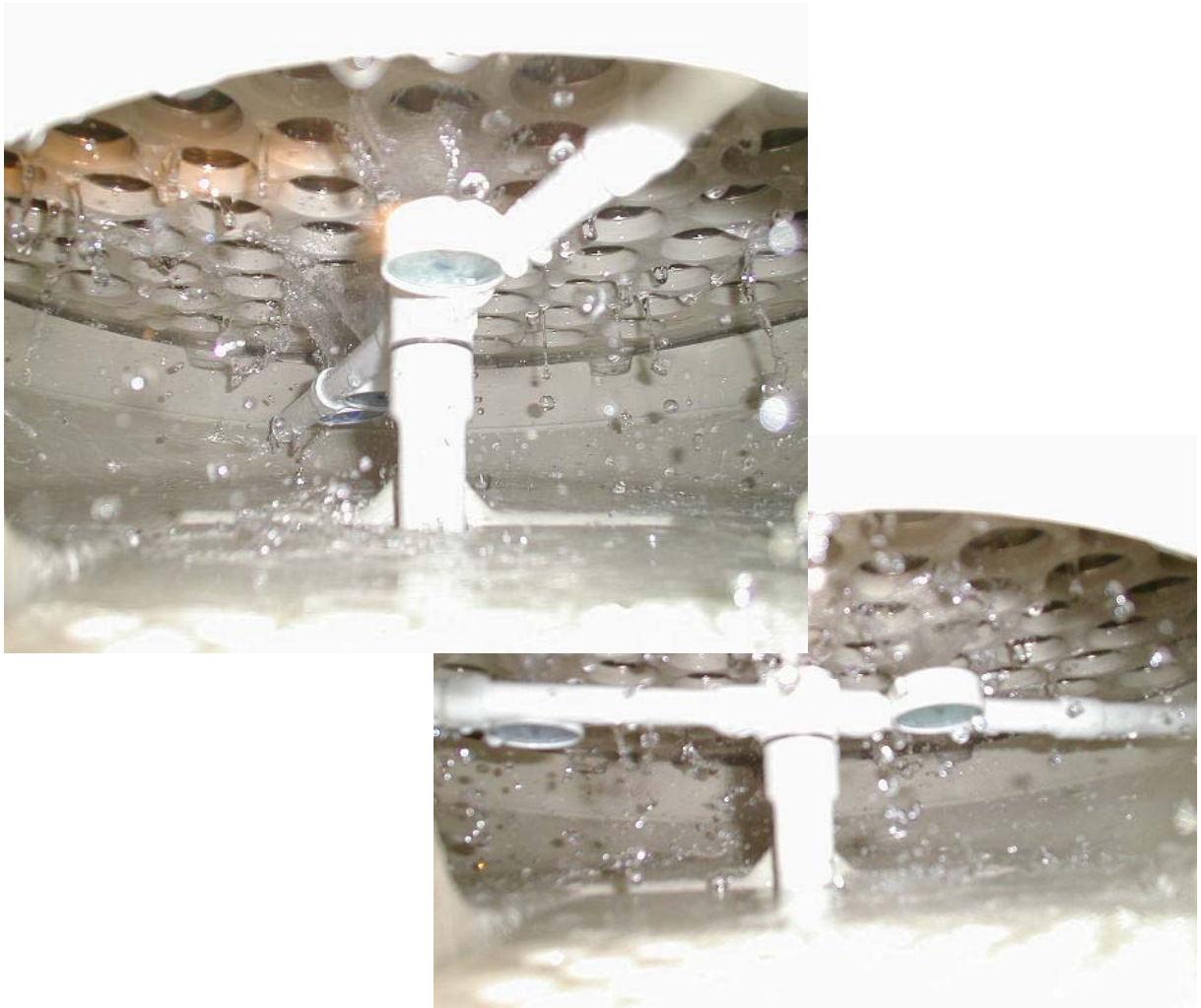
START UP AND OPERATIONAL CHECKS

Water is circulating by the water pump into the inverted tin plated copper molds of the evaporator….



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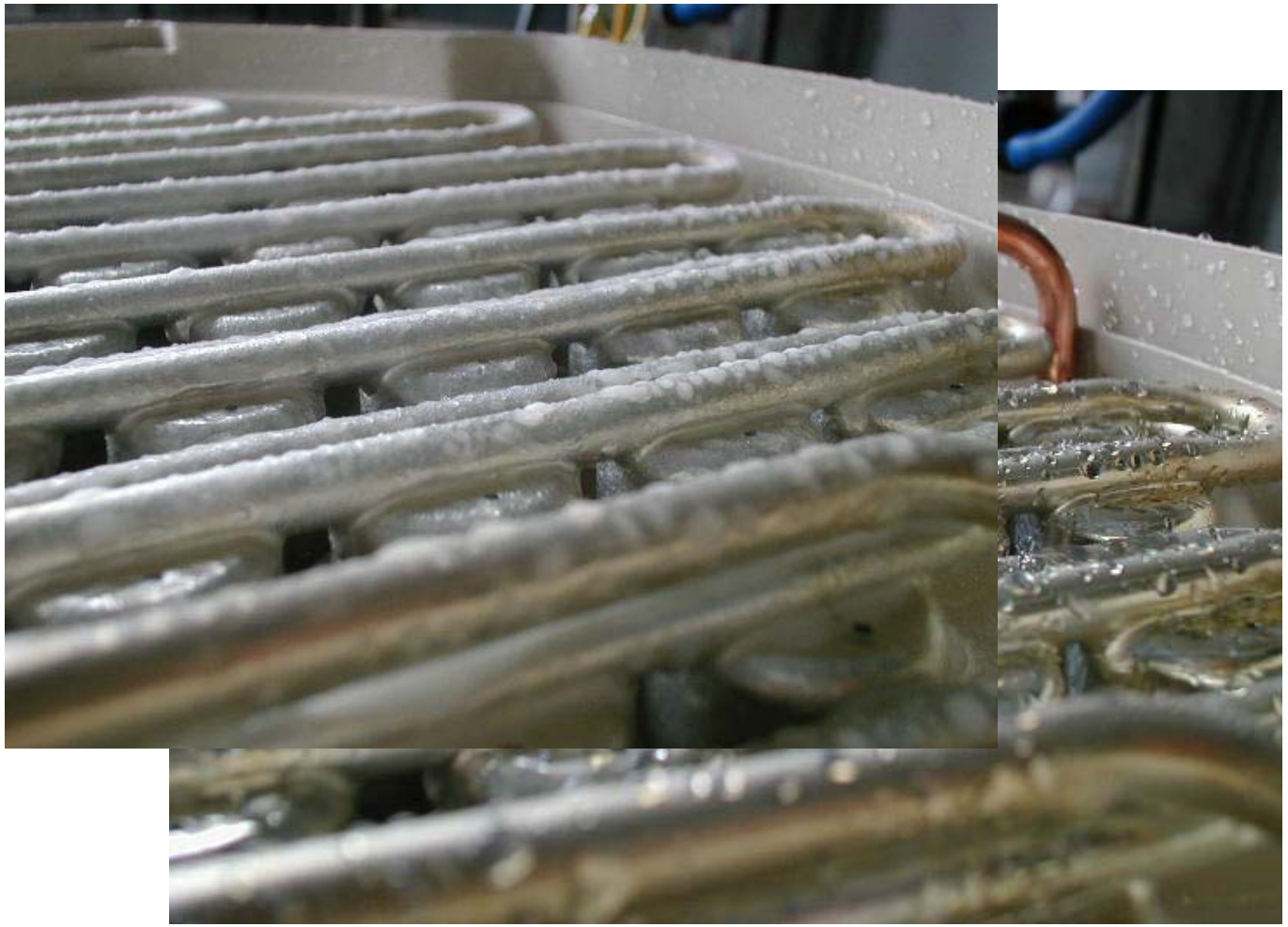
NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

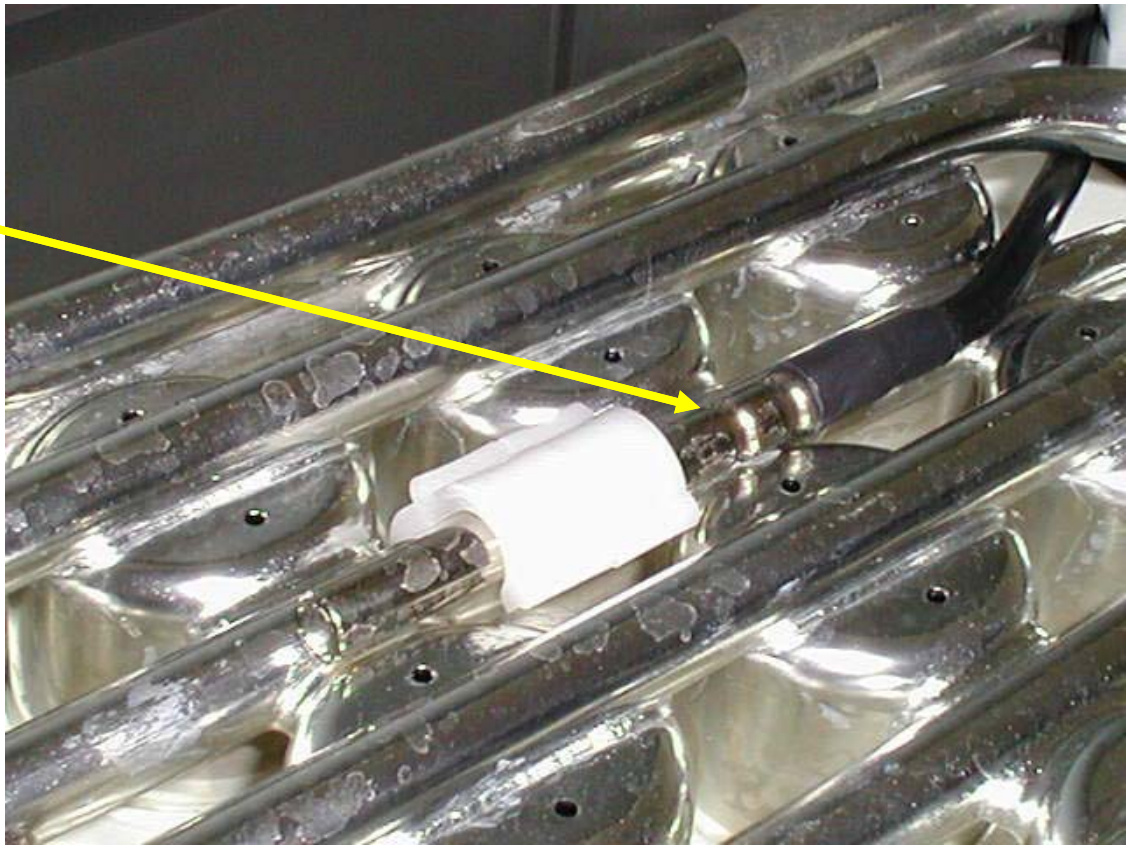
….while the refrigerant is flowing into the serpentine welded on the upper side of the tin plated copper molds.



Scotsman®
Ice Systems

NEW MXG SERIES

- **EVAPORATOR SENSOR**

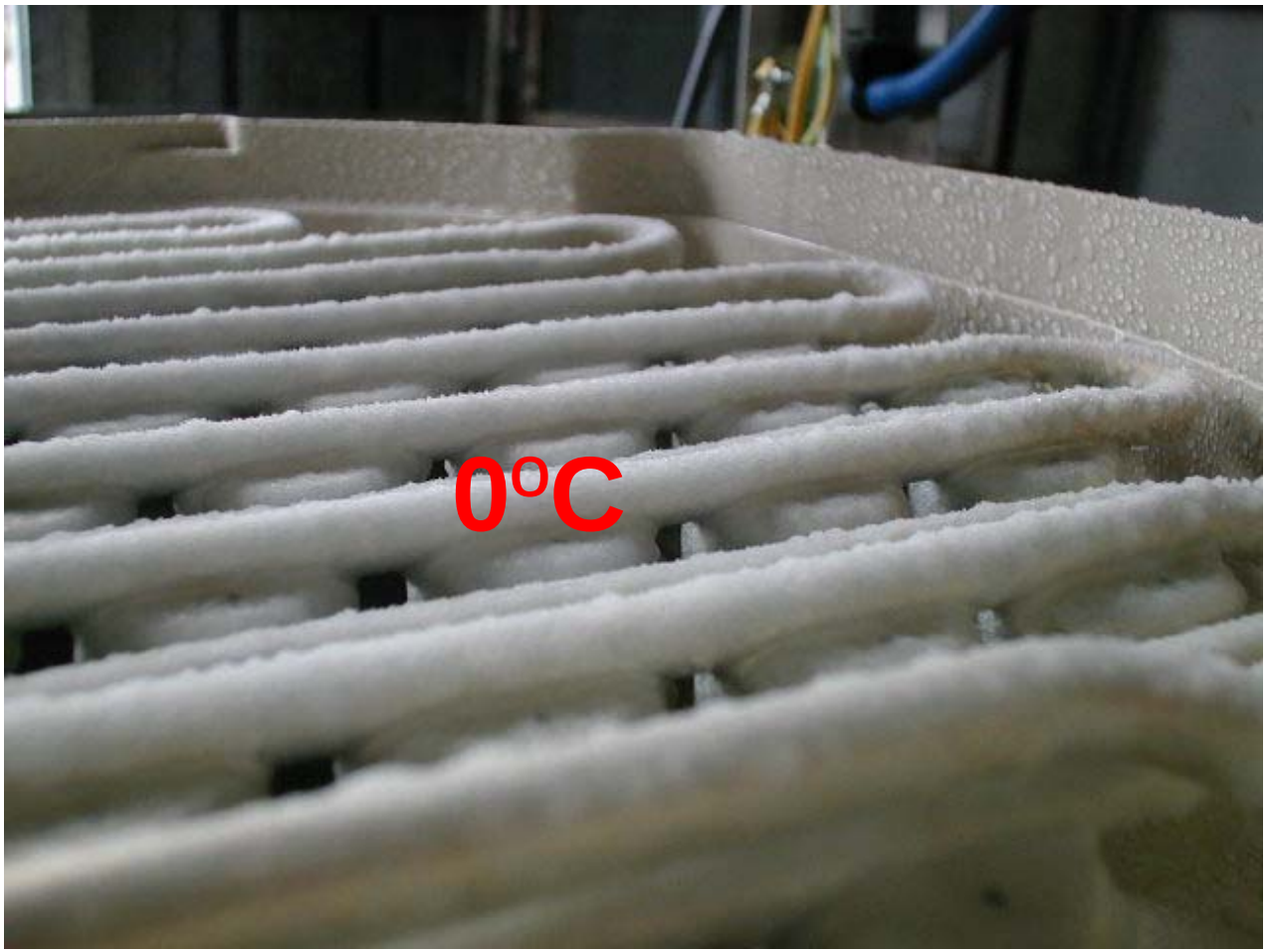


Scotsman® Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

After approximately 5 minutes since the start up of the freezing cycle, the temperature of the evaporator serpentine drops down to 0ºC….

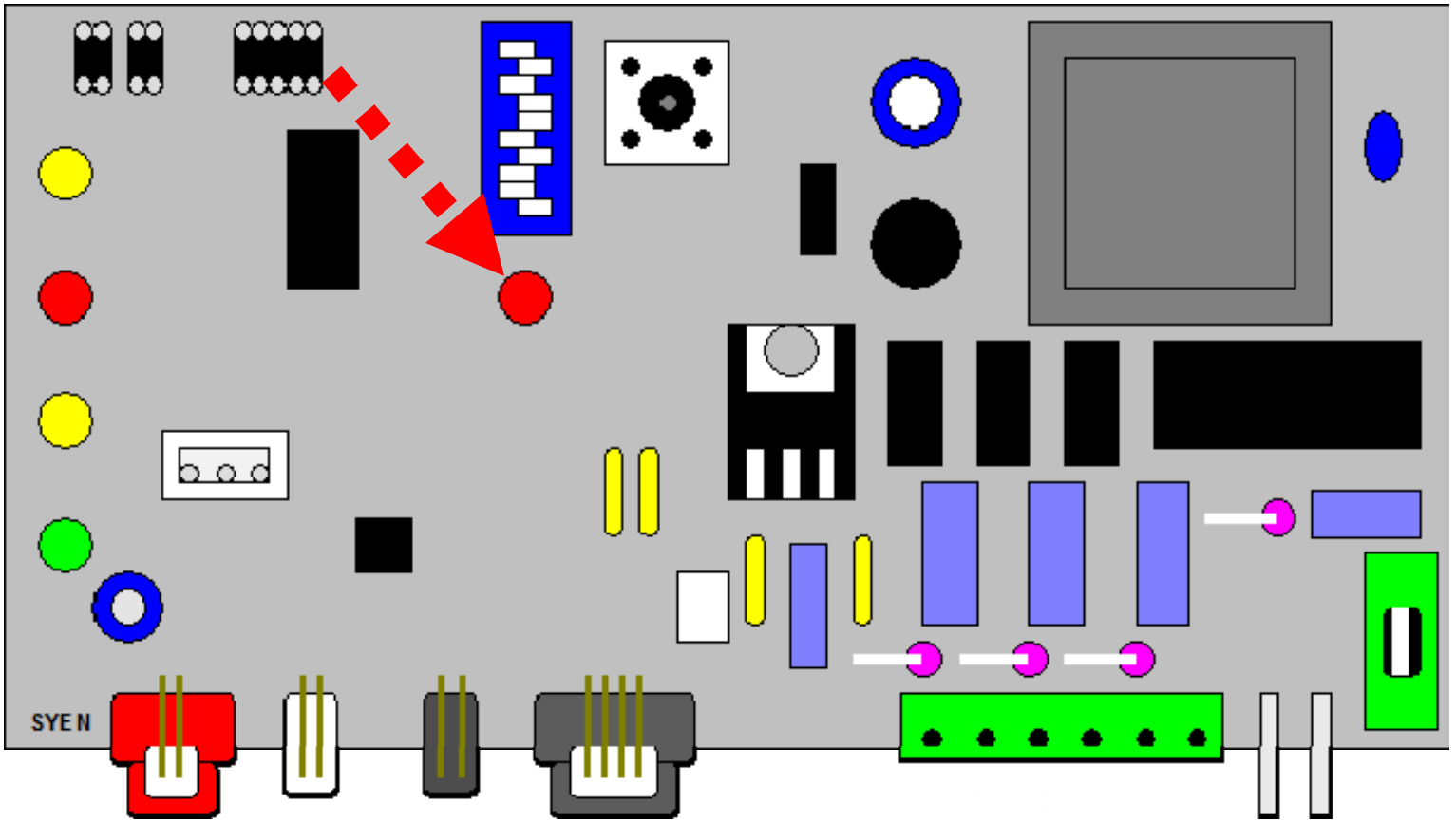


Scotsman®
Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

….with the blinking of the small RED LED located in the center of PC Board.

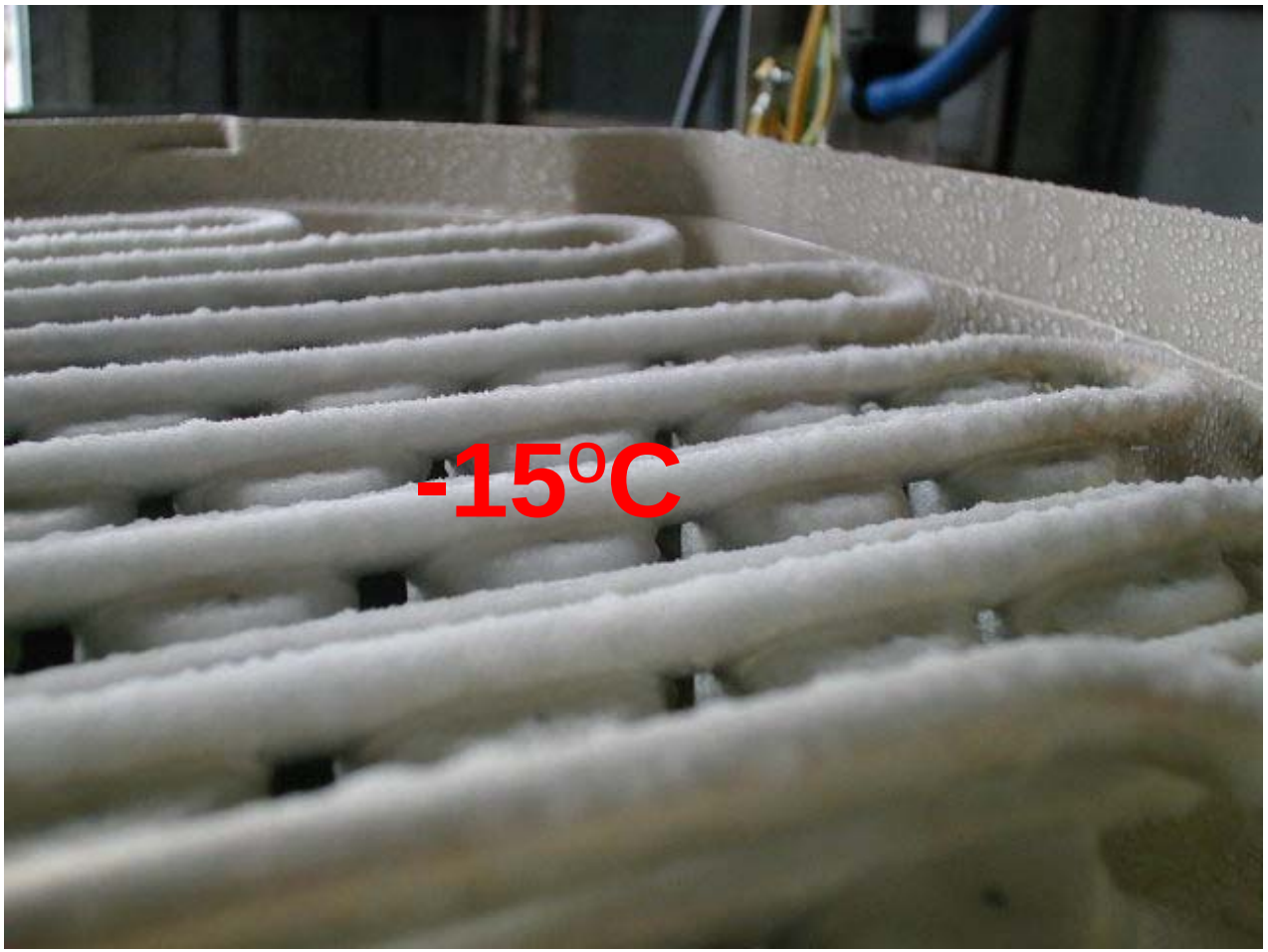


Scotsman Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

After approximately 10 minutes from the start up of the freezing cycle, the temperature of the evaporator serpentine drops down to - 15ºC….

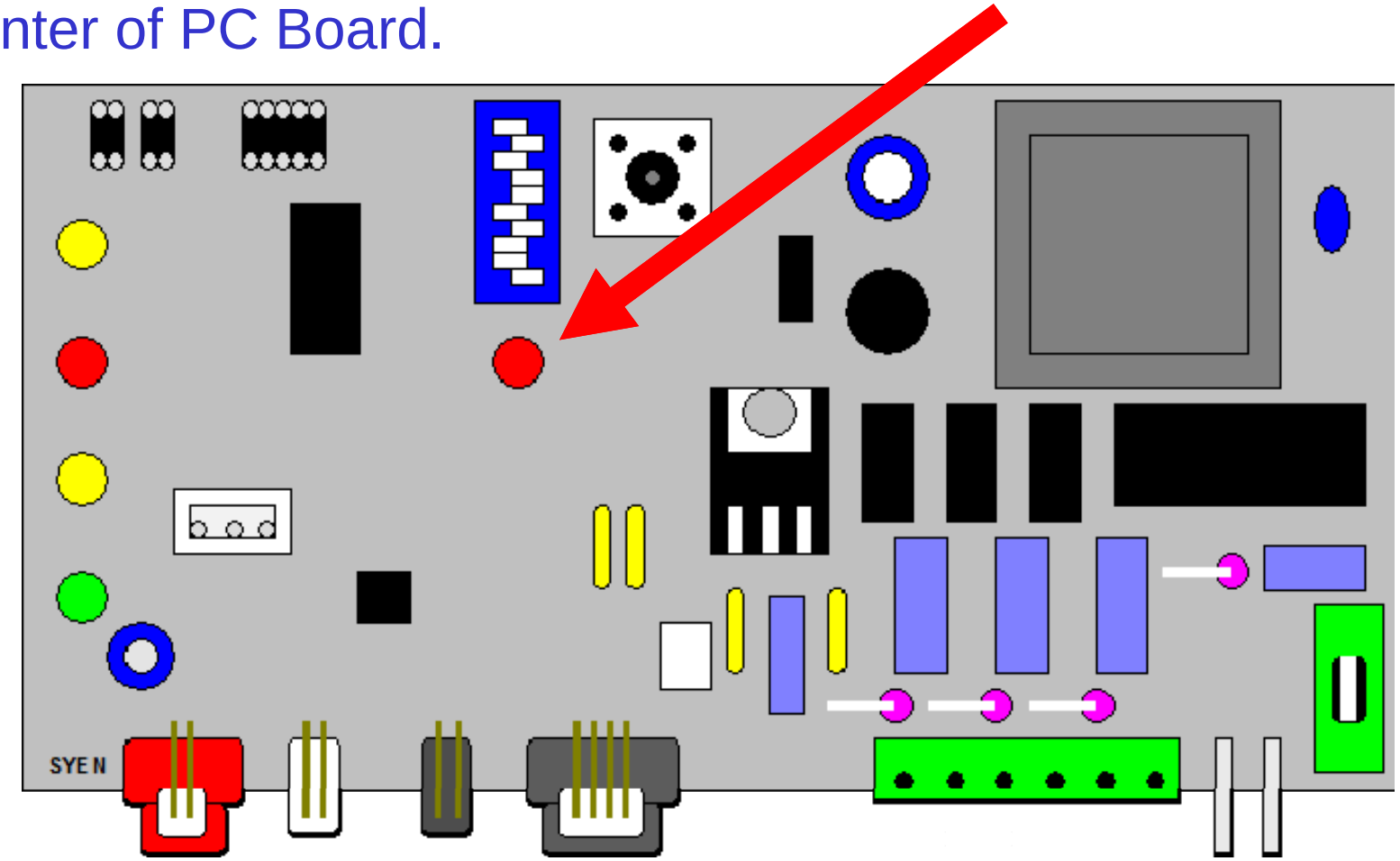


Scotsman®
Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

….with the light ON steady of the small RED LED located in the center of PC Board.



Scotsman® Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

The machine remains in the freezing cycle till its completion for an additional time according to the set up of the first four DIP SWITCH of the PC Board.

TIMED PORTION FREEZING CYCLE TEMPS PHASE TEMPORISÉE CONGELATION *TEMPI FASE TEMPORIZZATA CONGELAMENTO*				
1	2	3	4	
ON	ON	ON	ON	1 min.
OFF	ON	ON	ON	3 min.
ON	OFF	ON	ON	5 min.
OFF	OFF	ON	ON	7 min.
ON	ON	OFF	ON	9 min.
OFF	ON	OFF	ON	11 min.
ON	OFF	OFF	ON	13 min.
OFF	OFF	OFF	ON	15 min.
ON	ON	ON	OFF	17 min.
OFF	ON	ON	OFF	19 min.
ON	OFF	ON	OFF	21 min.
OFF	OFF	ON	OFF	23 min.
ON	ON	OFF	OFF	25 min.

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NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

TAB. A DIP SWITCH FACTORY SETTING COMBINATIONS PER MODEL AND VERSION

	FREEZING CYCLE				DEFROST CYCLE		DEFR. CYCLE ADD. TIME			AIR WATER
DIP SWITCH	1	2	3	4	5	6	7	8	9	10
MXG-S 328 A	ON	OFF	ON	ON	OFF	ON	ON	ON	OFF	ON
MXG-S 328 W										
MXG-M 328 A	ON	ON	OFF	ON	OFF	ON	ON	ON	OFF	ON
MXG-M 328 W	ON	ON	OFF	ON	OFF	ON	ON	ON	OFF	OFF
MXG-L 328 A	OFF	OFF	OFF	ON	OFF	ON	ON	ON	OFF	ON
MXG-L 328 W										
MXG-S 428-438 A	ON	OFF	ON	ON	OFF	ON	ON	ON	OFF	ON
MXG-S 428-438 W										
MXG-M 428-438 A	OFF	OFF	ON	ON	OFF	ON	ON	ON	OFF	ON
MXG-M 428-438 W	OFF	OFF	ON	ON	OFF	ON	ON	ON	OFF	OFF
MXG-L 428-438 A	OFF	OFF	OFF	ON	OFF	ON	ON	ON	OFF	ON
MXG-L 428-438 W										
MXG-S 638 A	ON	OFF	ON	ON	OFF	ON	ON	ON	OFF	ON
MXG-S 638 W										
MXG-M 638 A	ON	ON	OFF	ON	OFF	ON	ON	ON	OFF	ON
MXG-M 638 W	ON	OFF	ON	ON	OFF	ON	ON	ON	OFF	OFF
MXG-L 638 A	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	ON
MXG-L 638 W										

START UP AND OPERATIONAL CHECKS

Once completed the freezing cycle the machine enters into the defrost or harvest cycle with the following electrical components in operation:

- **Compressor**

Scotsman Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

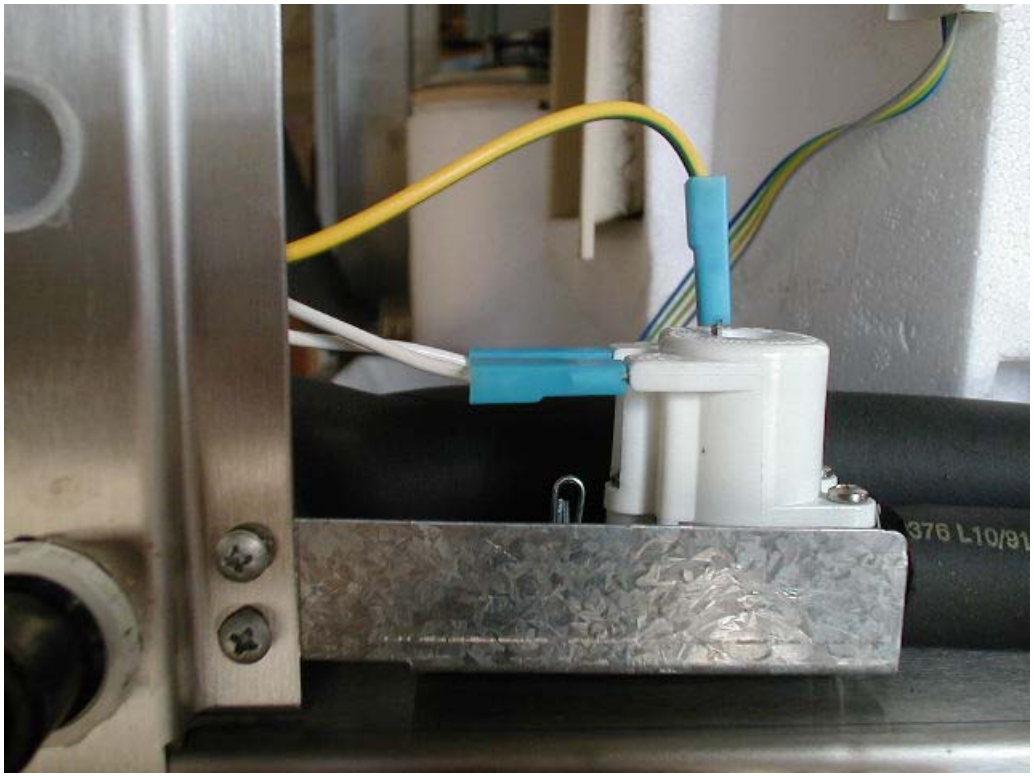
- **Water Inlet Solenoid valve**

Scotsman Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

- **Water Drain Solenoid Valve**



Scotsman Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

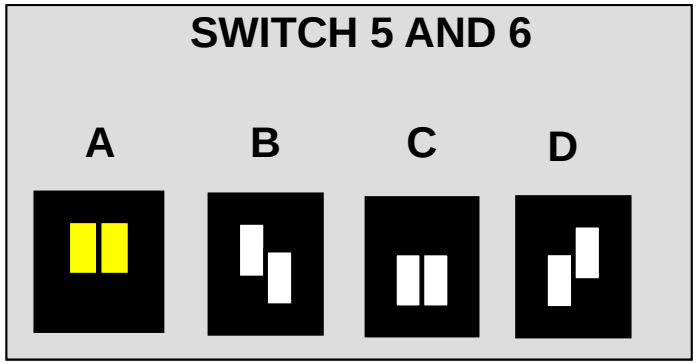
- Hot Gas Valve

Scotsman Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

The length of the defrost or harvest cycle is controlled by the PC Board according to the setting of the DIP SWITCH 5 and 6 and it is related to the time that the machine takes to drop the evaporating temperature from 0ºC to -15ºC (**time T_2**) as shown on the table.



LENGTH OF HARVEST CYCLE ACCORDING TO THE TIME TO DROP THE EVAP. TEMPERATURE FROM 0ºC TO -13ºC

LENGTH HARVEST CYCLE	PROGRAMS			
	A	B	C	D
180”	Up to 6’	***	Up to 9’	***
165”	6’-7’	Up to 3’	9’-10’	***
150”	7’-8’	3’-3’15’	10’-11’	***
135”	8’-9’	3’15”-3’30”	11’-12’	***
120”	9’-10’	3’30”-4’30”	12’-13’	Up to 3’
105”	10’-12’	430”-6’	13’-15’	3-4’
90”	>12’	>6’	>15’	>4’

Scotsman Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

It’s possible to extend the length of the defrost cycle by means of the DIP SWITCH 7 and 8 as per below chart.

DIP SWITCH		ADDITIONAL DEFROST TIME
7	**8**	
ON	ON	0
OFF	ON	30"
ON	OFF	60"
OFF	OFF	**WATER PUMP OFF**

Scotsman Ice Systems

START UP AND OPERATIONAL CHECKS

During the defrost or harvest cycle the combined action of refrigerant in Hot Gas state and incoming Water are going to partially melt the ice cubes in contact with the tin plated copper molts with the dropping down of the same through the curtain.

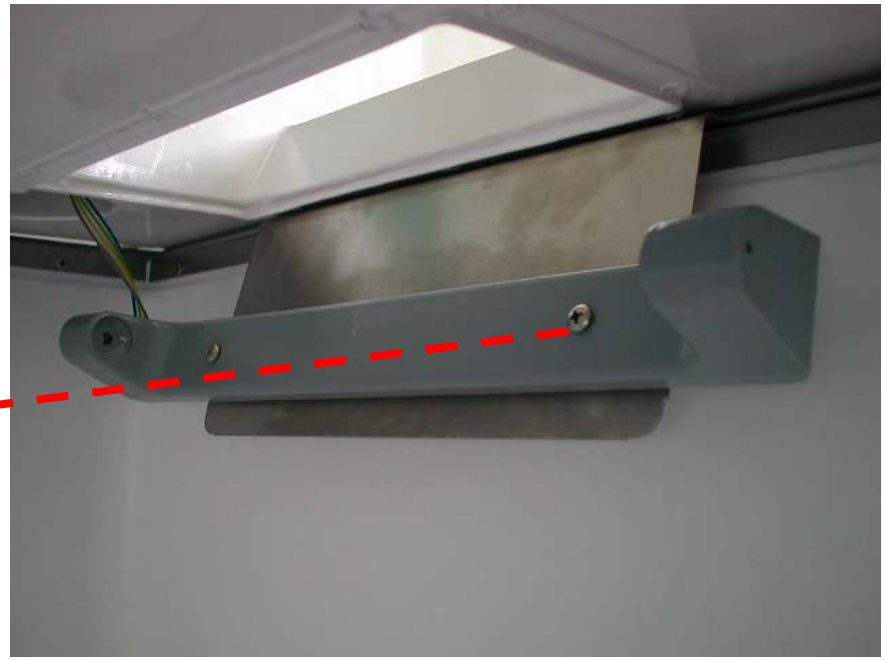
Scotsman Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

Ice maker turns OFF just when bin is full by ice and cubes cut the I/R beam.

It is possible to test I/R operation by keeping some ice cubes between lenses during a defrost ……..

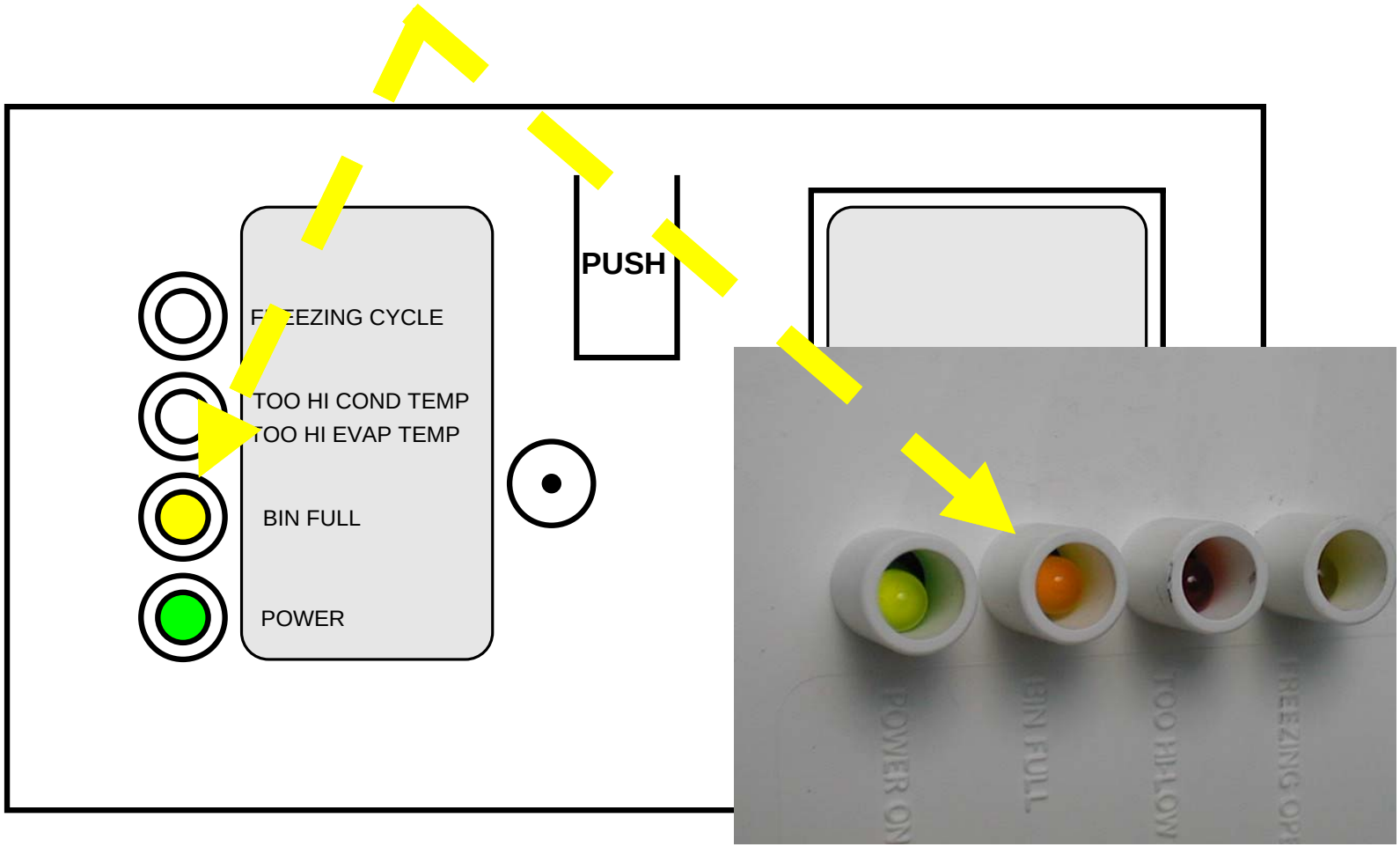


Scotsman Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

The Bin Full YELLOW LED starts to blink slow.

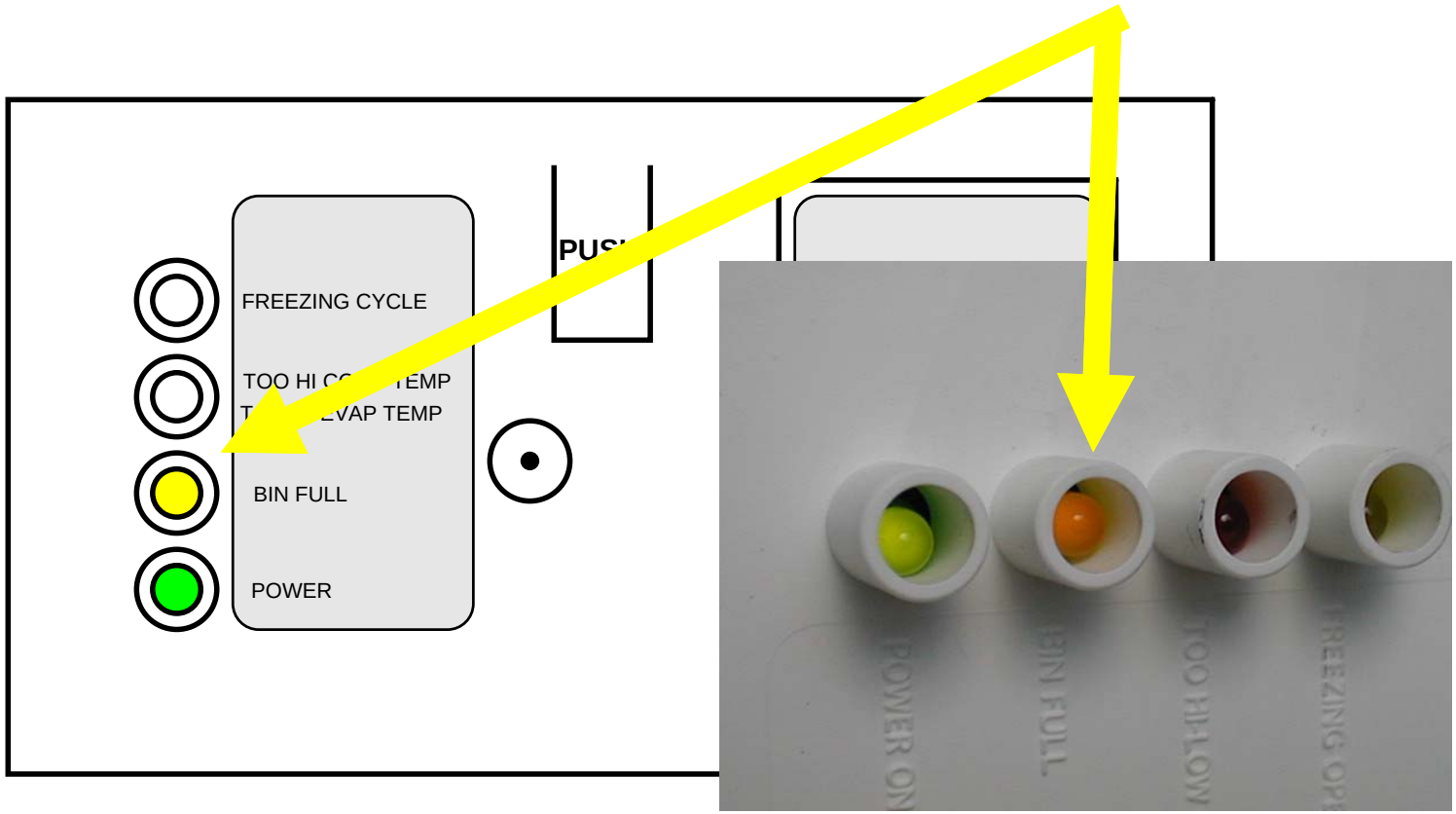


Scotsman Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

..till defrost cycle is elapsed thus to release all ice cubes from inverted mold cups; after that the machine will stop at bin full condition with the yellow LED steady ON

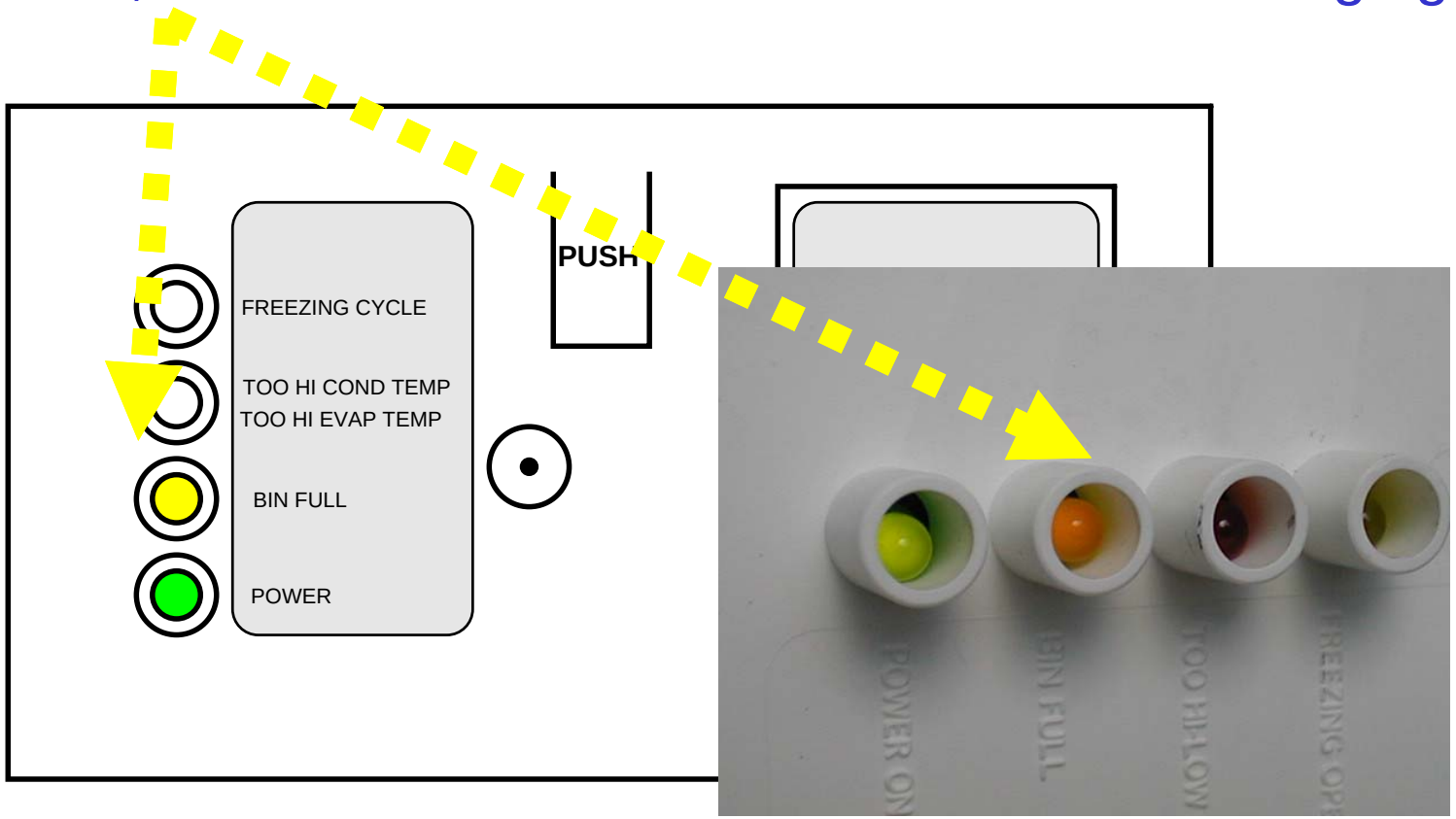


Scotsman Ice Systems

NEW MXG SERIES

START UP AND OPERATIONAL CHECKS

As soon as the ice is removed between transmitter and received the infrared beam is resumed immediately with fast a blinking of the Yellow LED, then the machine restart with 45” of recharging water



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NEW MXG SERIES

OPERATING PRINCIPLES and COMPONENTS

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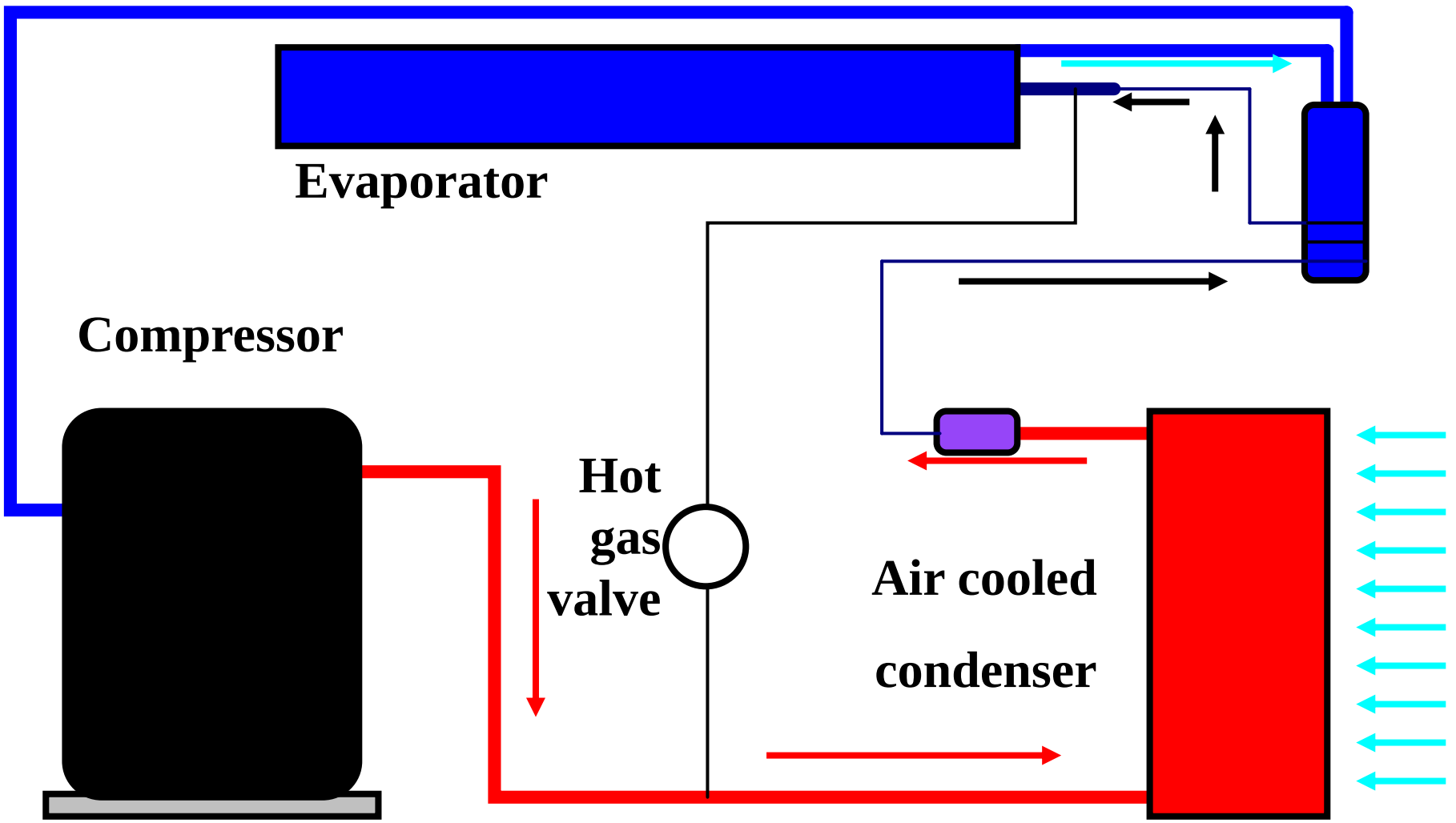
NEW MXG SERIES

OPERATING PRINCIPLES - FREEZE



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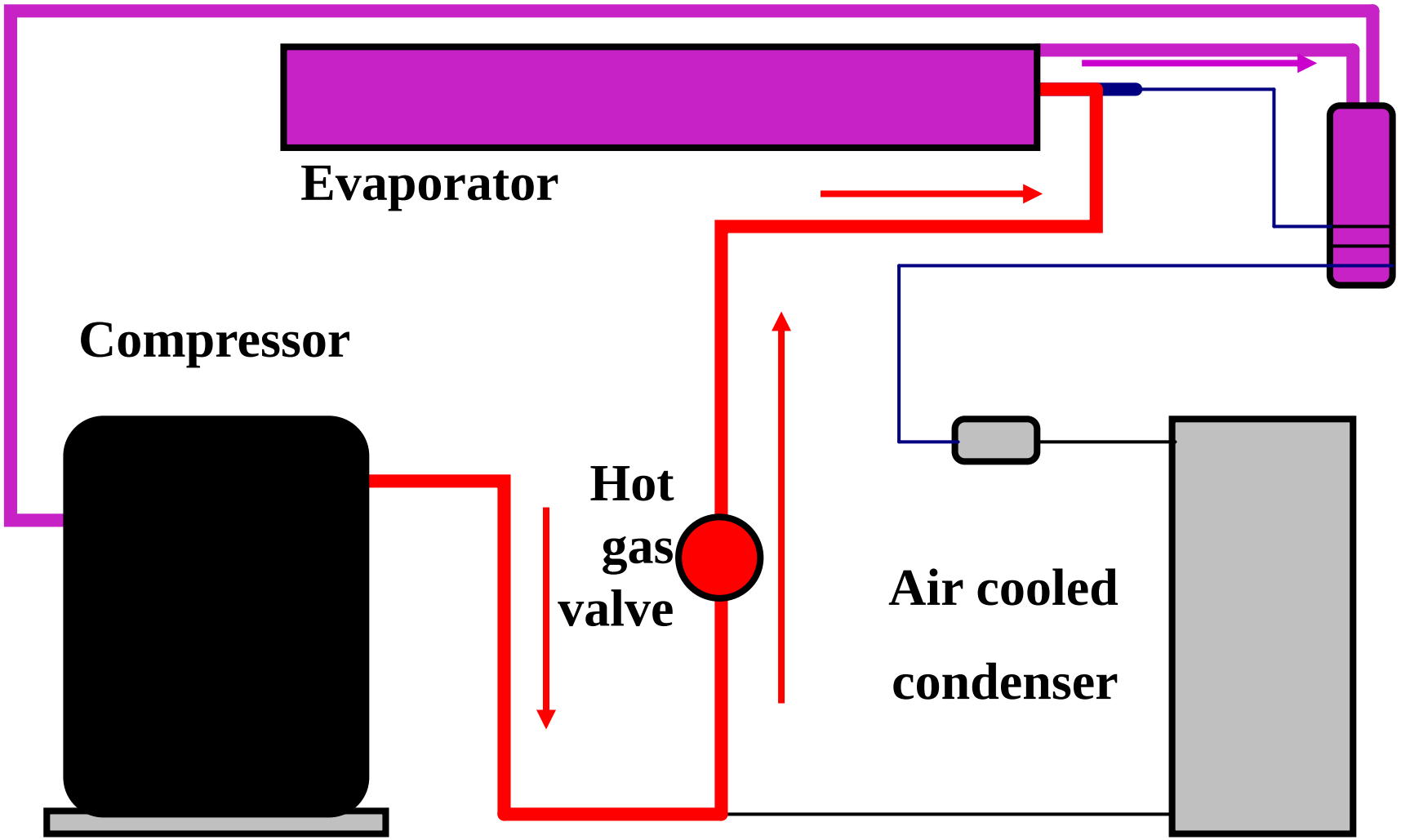
NEW MXG SERIES

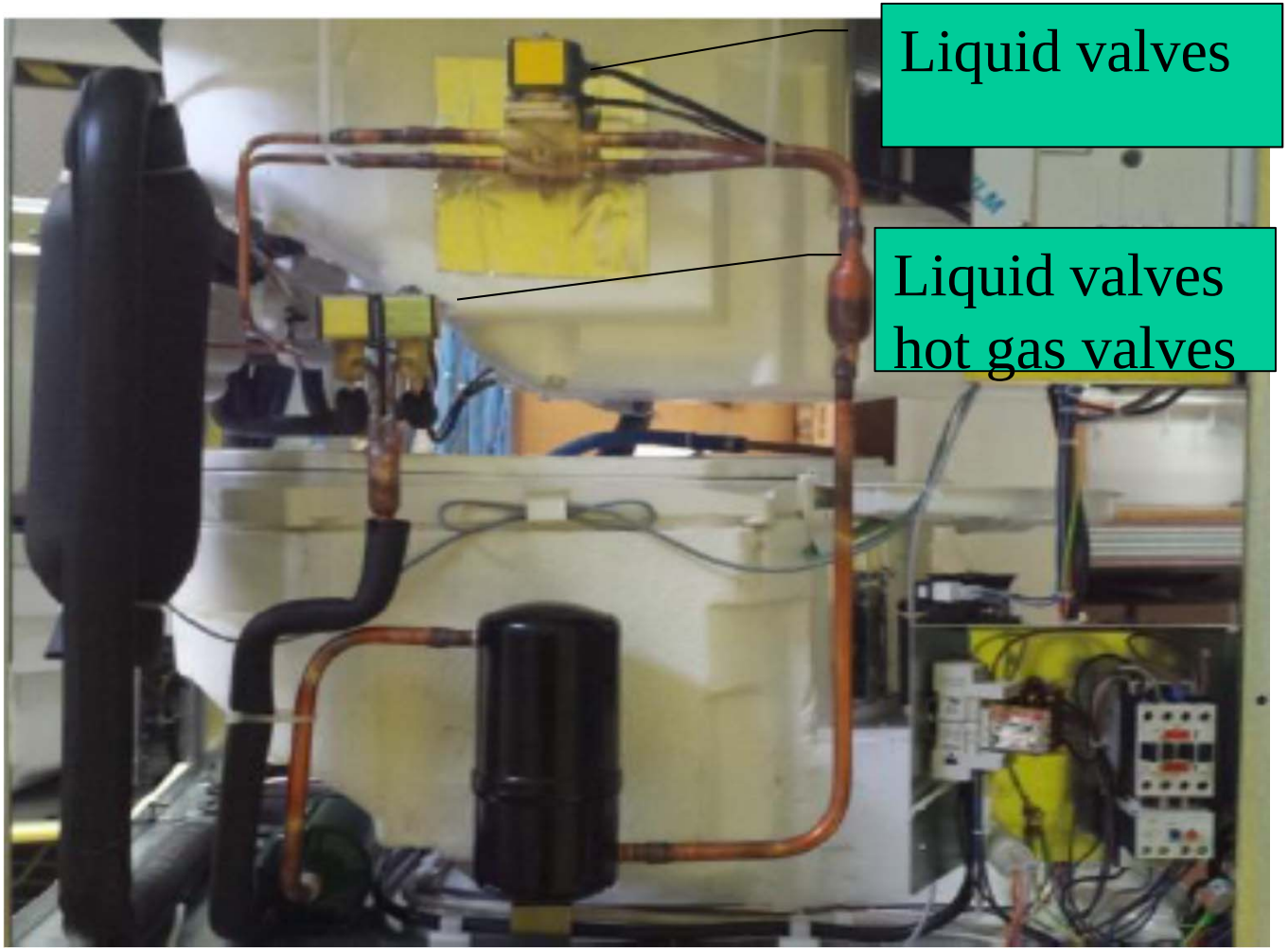
OPERATING PRINCIPLES - HARVEST



Scotsman Ice Systems

NEW MXG SERIES

OPERATING PRINCIPLES 938

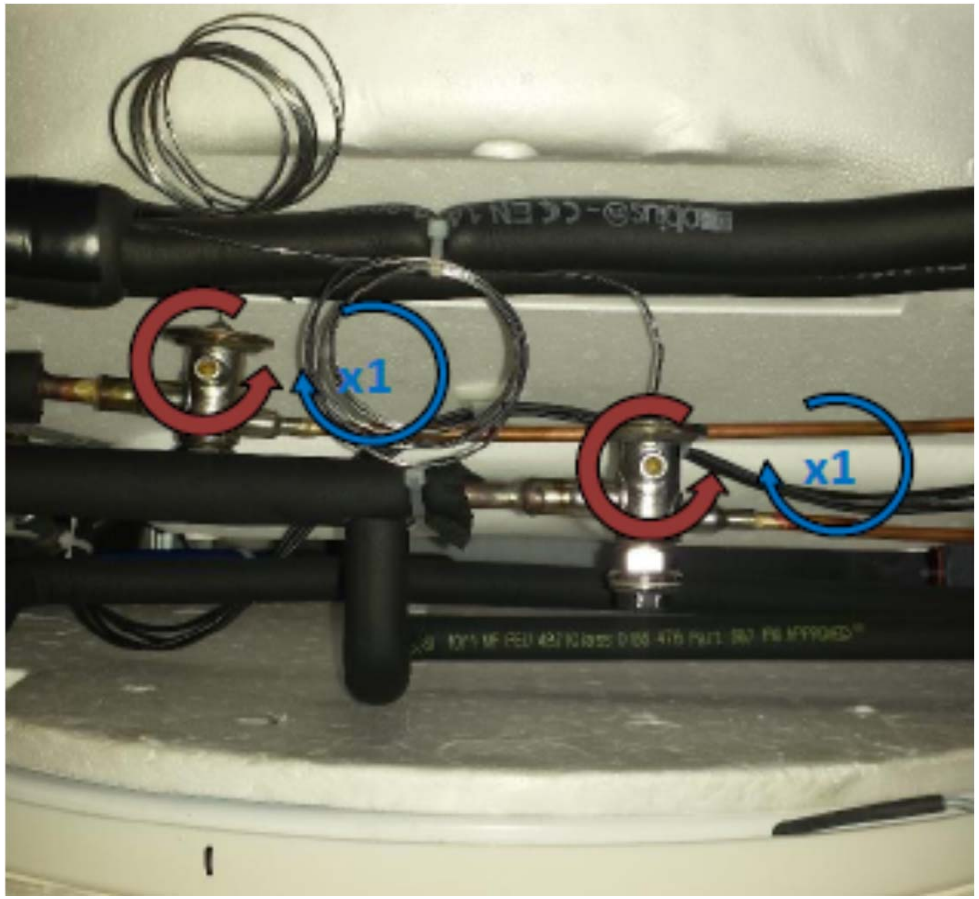


Scotsman Ice Systems

NEW MXG SERIES

OPERATING PRINCIPLES 938

TXV valves factory setting, full opening (countercl ockwise then 1 turn clockwise



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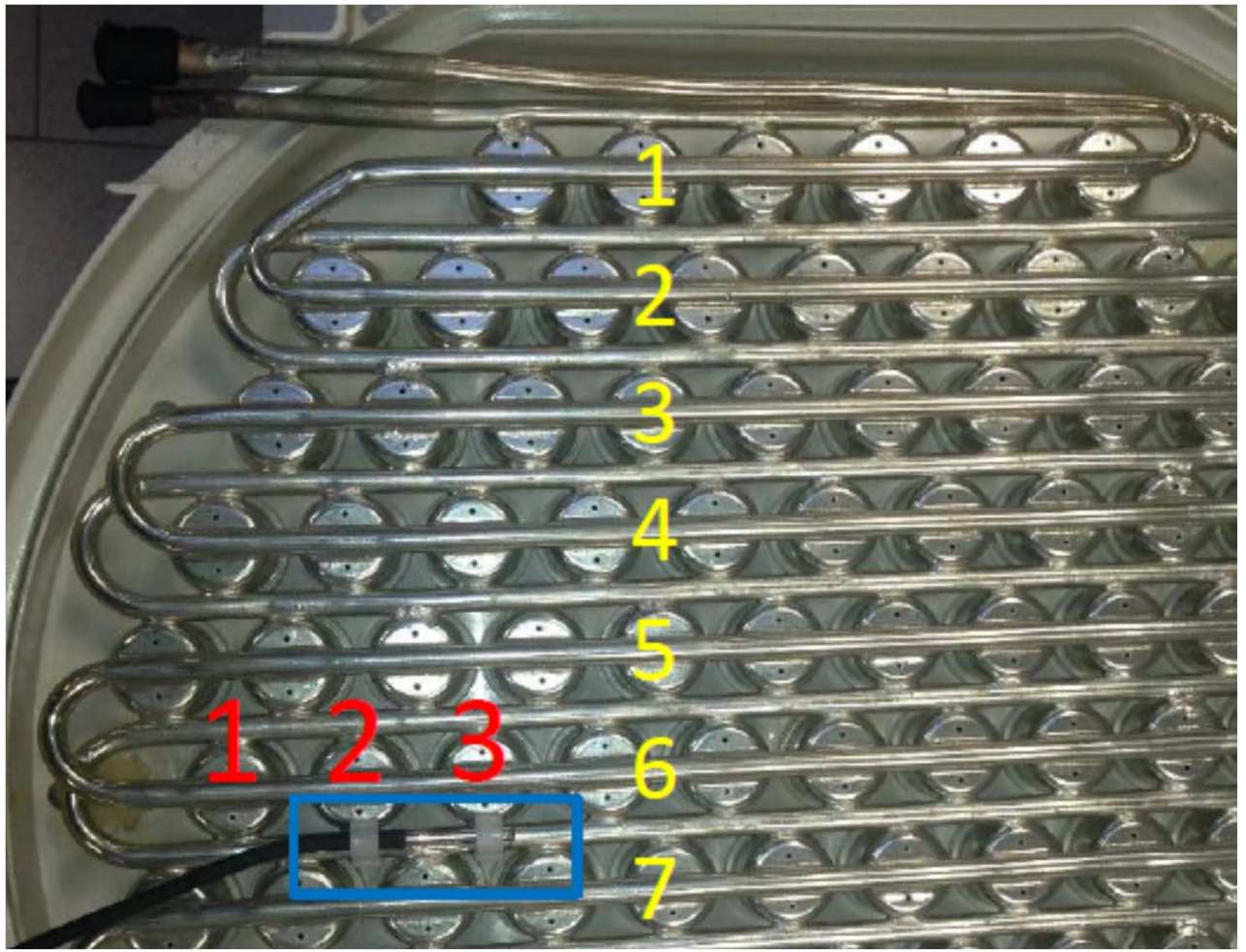
NEW MXG SERIES

OPERATING PRINCIPLES 938

Evaporator sensor location



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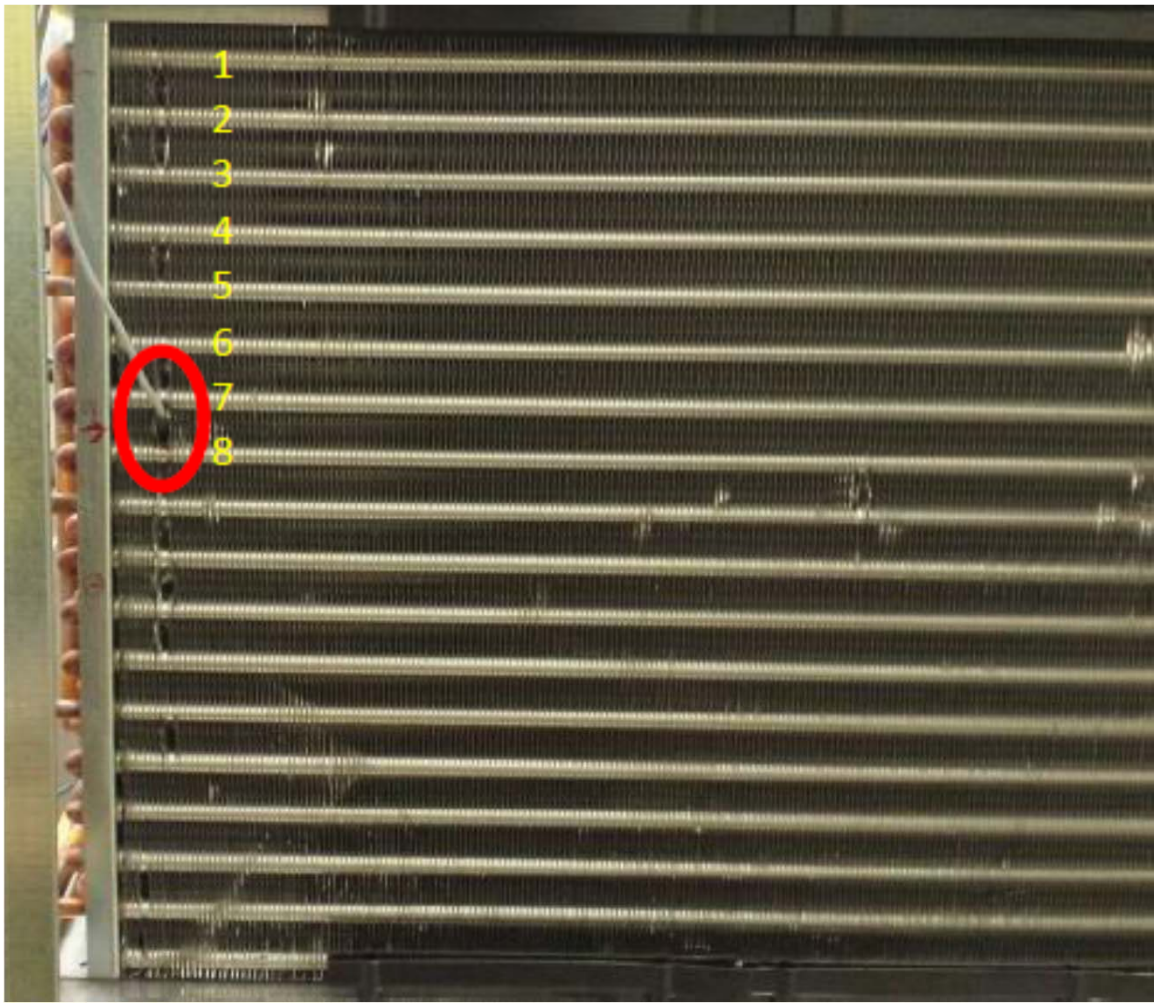
NEW MXG SERIES

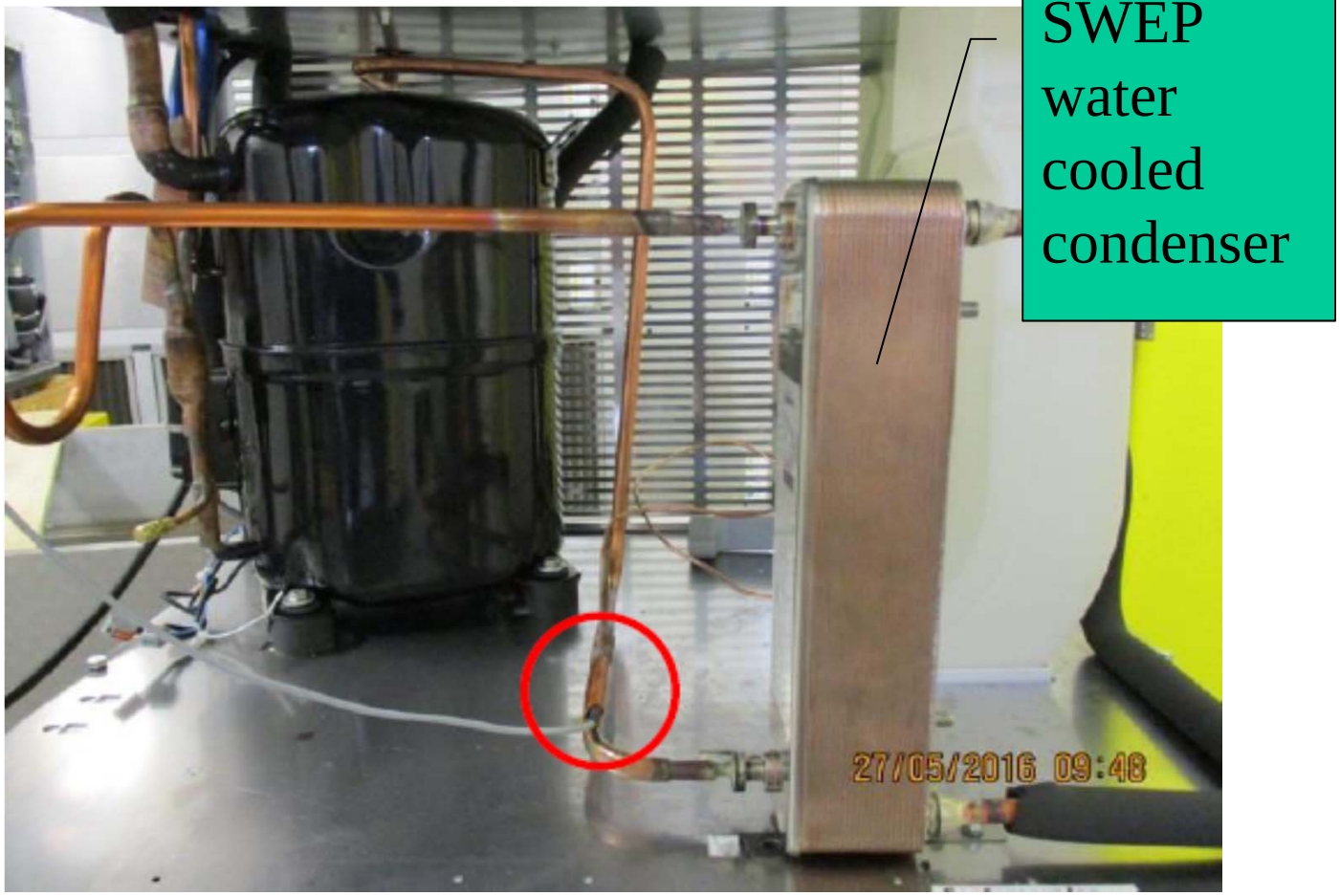
OPERATING PRINCIPLES 938

Condenser sensor location air cooled version



OPERATING PRINCIPLES 938 - FREEZE

Condenser sensor location water cooled version



Scotsman Ice Systems

NEW MXG SERIES

OPERATING PRINCIPLES 938

DANFOS S water regulating valve set at 17 bar

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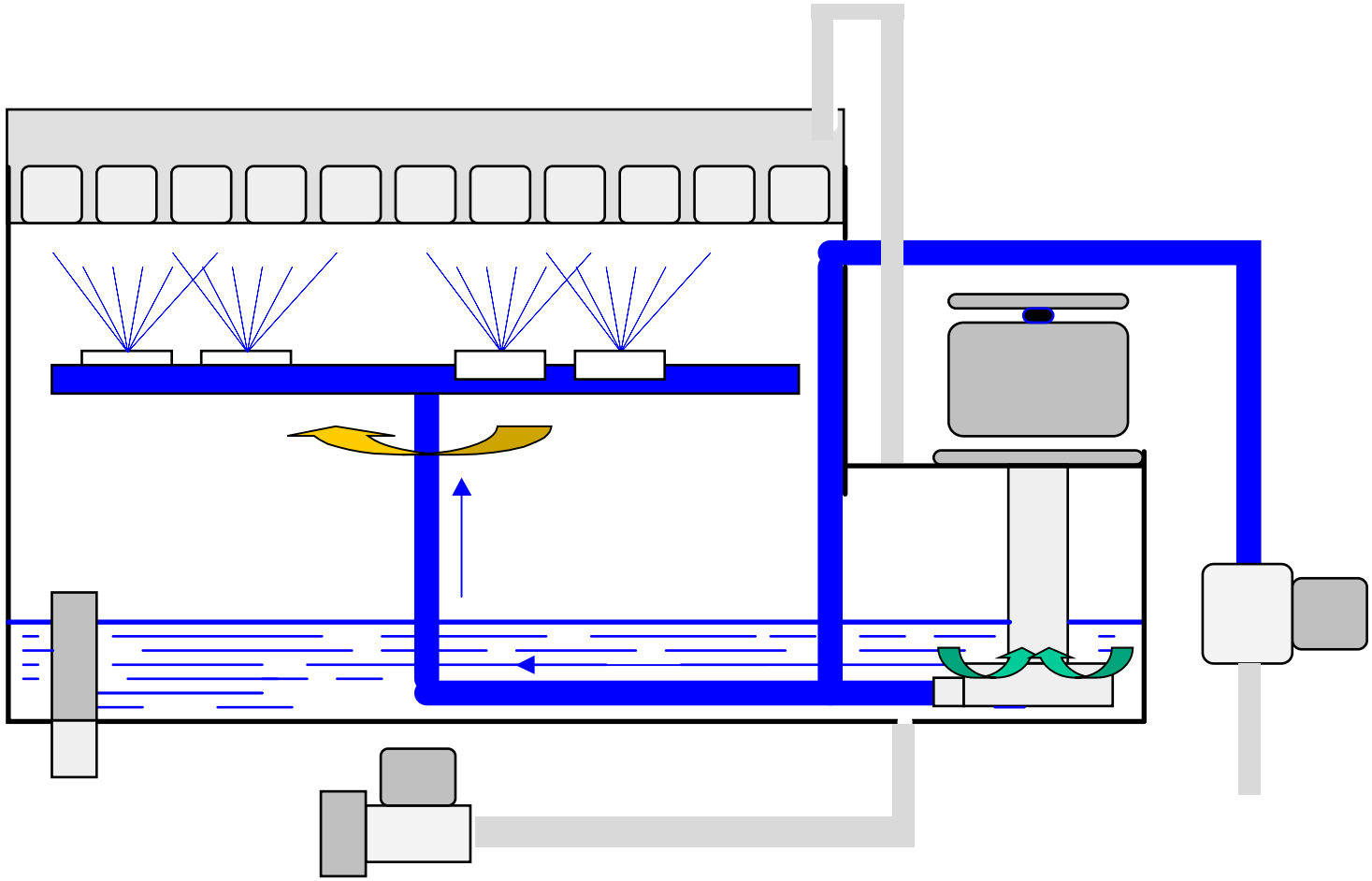
NEW MXG SERIES

WATER SYSTEM – FREEZING CYCLE



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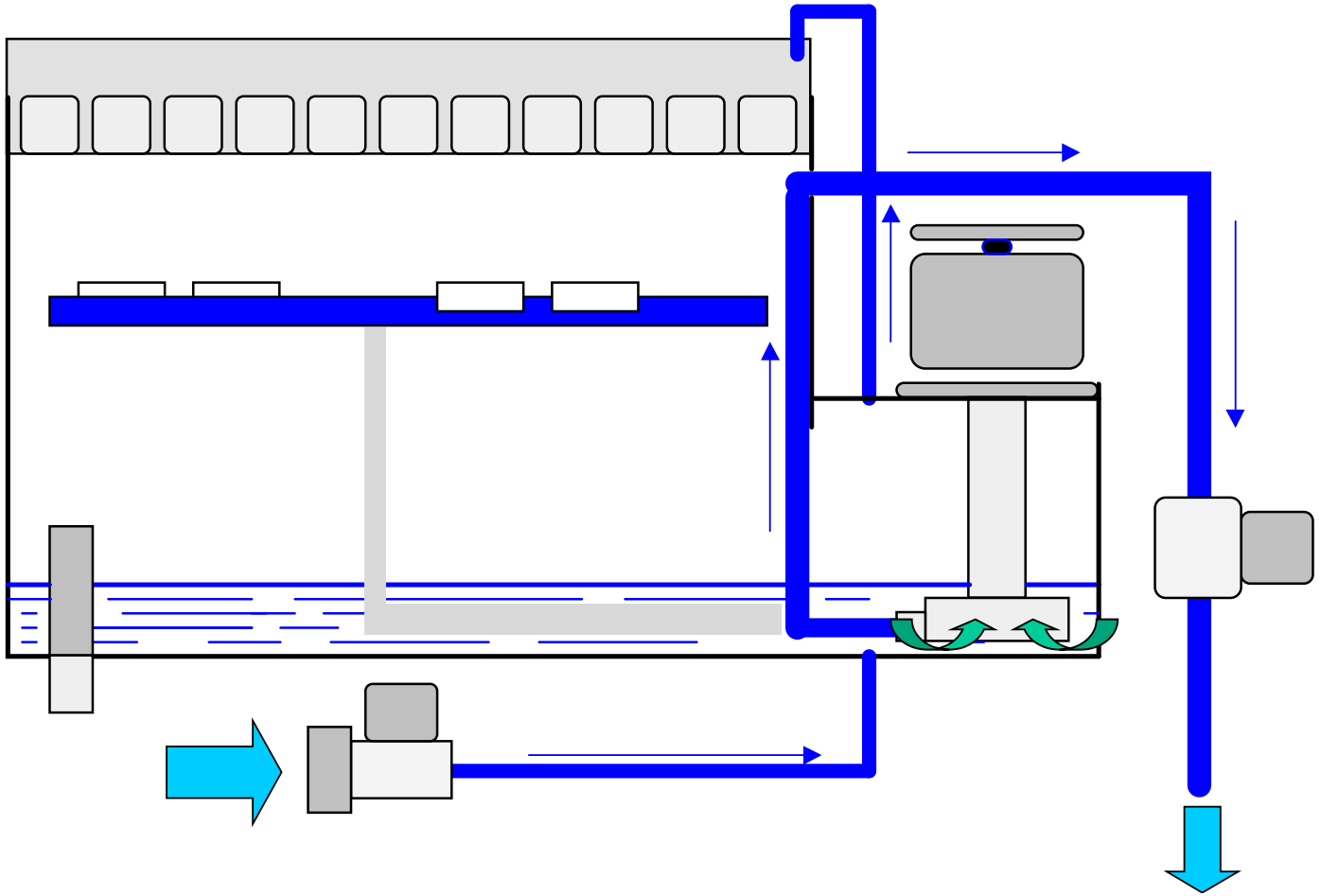
NEW MXG SERIES

WATER SYSTEM – HARVEST CYCLE

FIRST PORTION 30”



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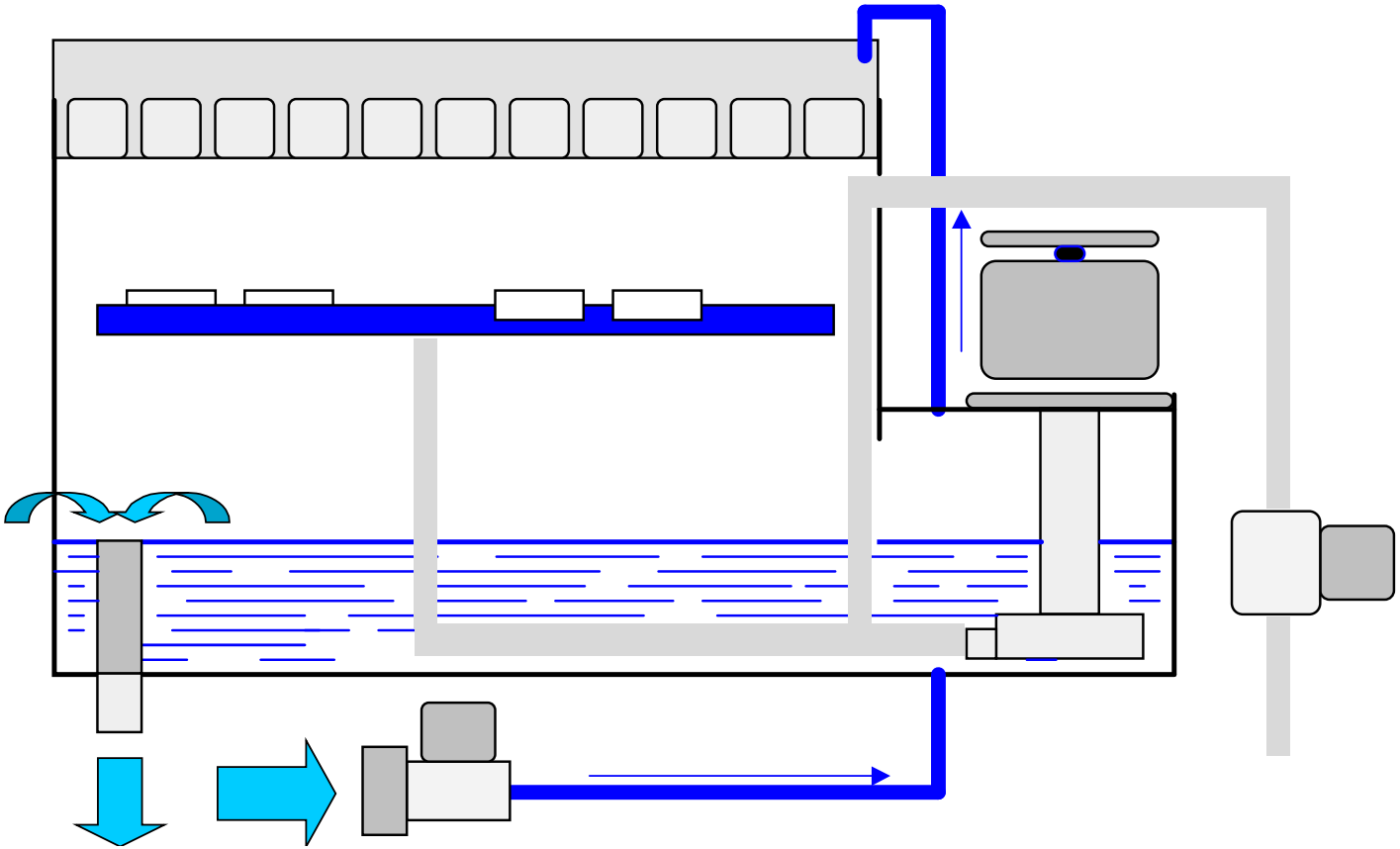
NEW MXG SERIES

WATER SYSTEM – HARVEST CYCLE

SECOND PORTION



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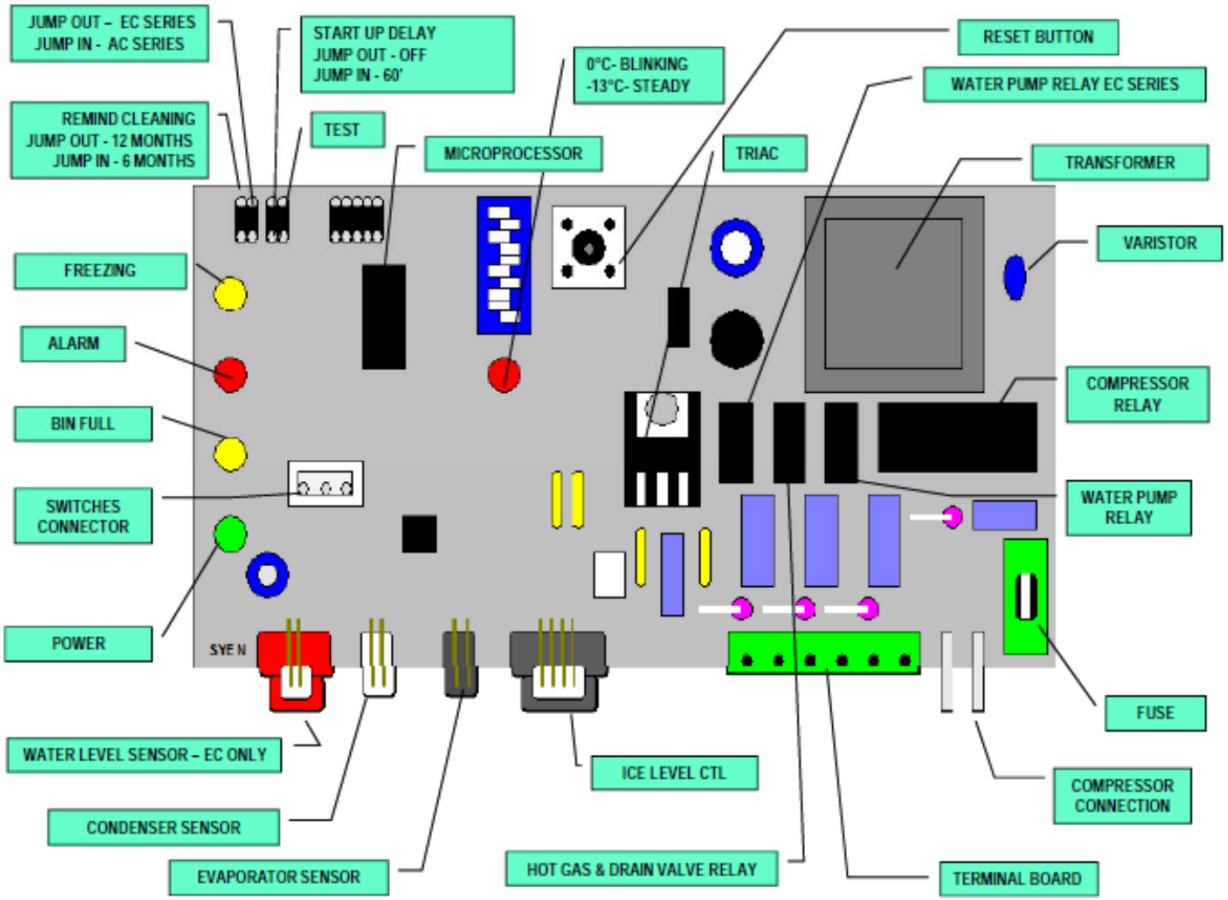
NEW MXG SERIES

OPERATING PRINCIPLES – PC BOARD



Scotsman Ice Systems

NEW MXG SERIES

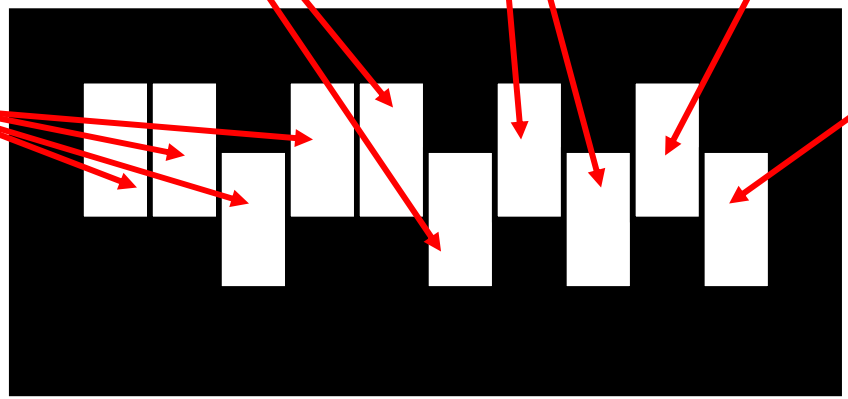
OPERATING PRINCIPLES – DIP SWITCHES

SWITCH 5 AND 6 LENGTH OF THE HARVEST CYCLE ACCORDING TO THE TIME T_2

SWITCH 7 AND 8 EXTENTION TIME OF HARVEST CYCLE BY 0", 30", 60" OR WATER PUMP OFF

SWITCH 9 OPERATING TIME OF WATER PUMP DURING HARVEST OFF = 15" ON = 30"

SWITCH 1, 2, 3 AND 4 SETTING OF THE TIMED PORTION OF FREEZING CYCLE



SWITCH 10 CONDENSER SAFETY CUT OUT TEMPERATURE (60ºC WATER - OFF AND 70ºC AIR - ON)

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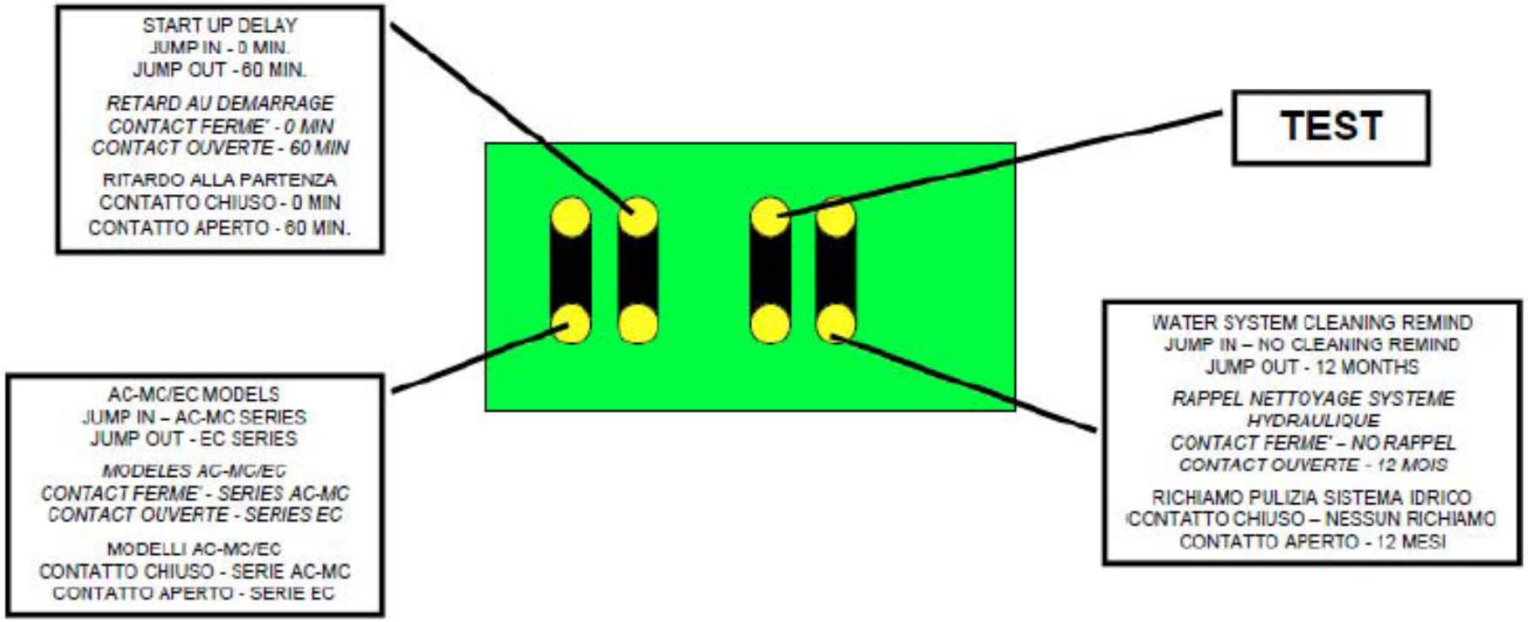
NEW MXG SERIES

OPERATING PRINCIPLES – JUMPERS



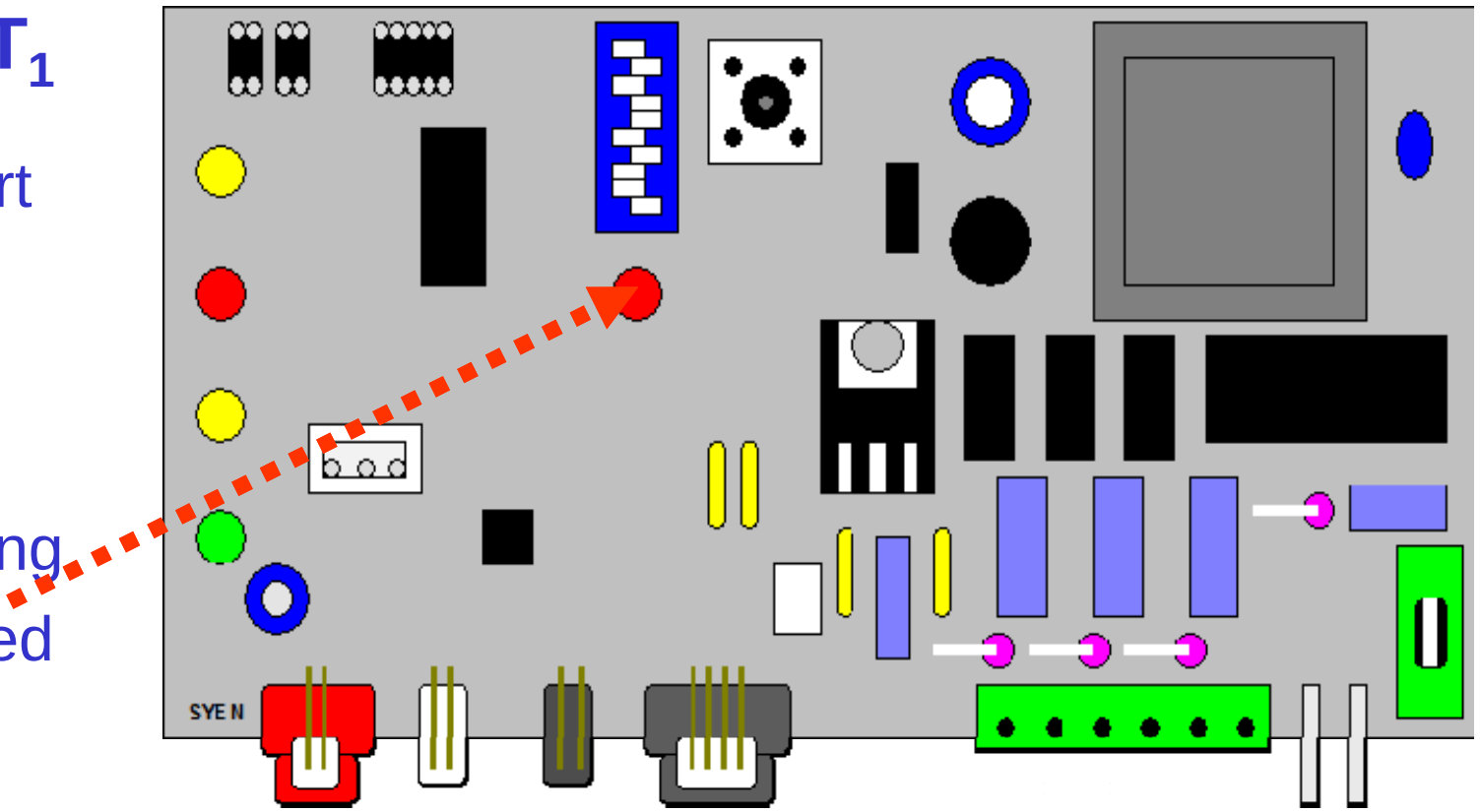
Scotsman Ice Systems

NEW MXG SERIES

OPERATING PRINCIPLES – PC BOARD

Time T_1

From start up of freezing cycle till the blinking of 0°C Red LED



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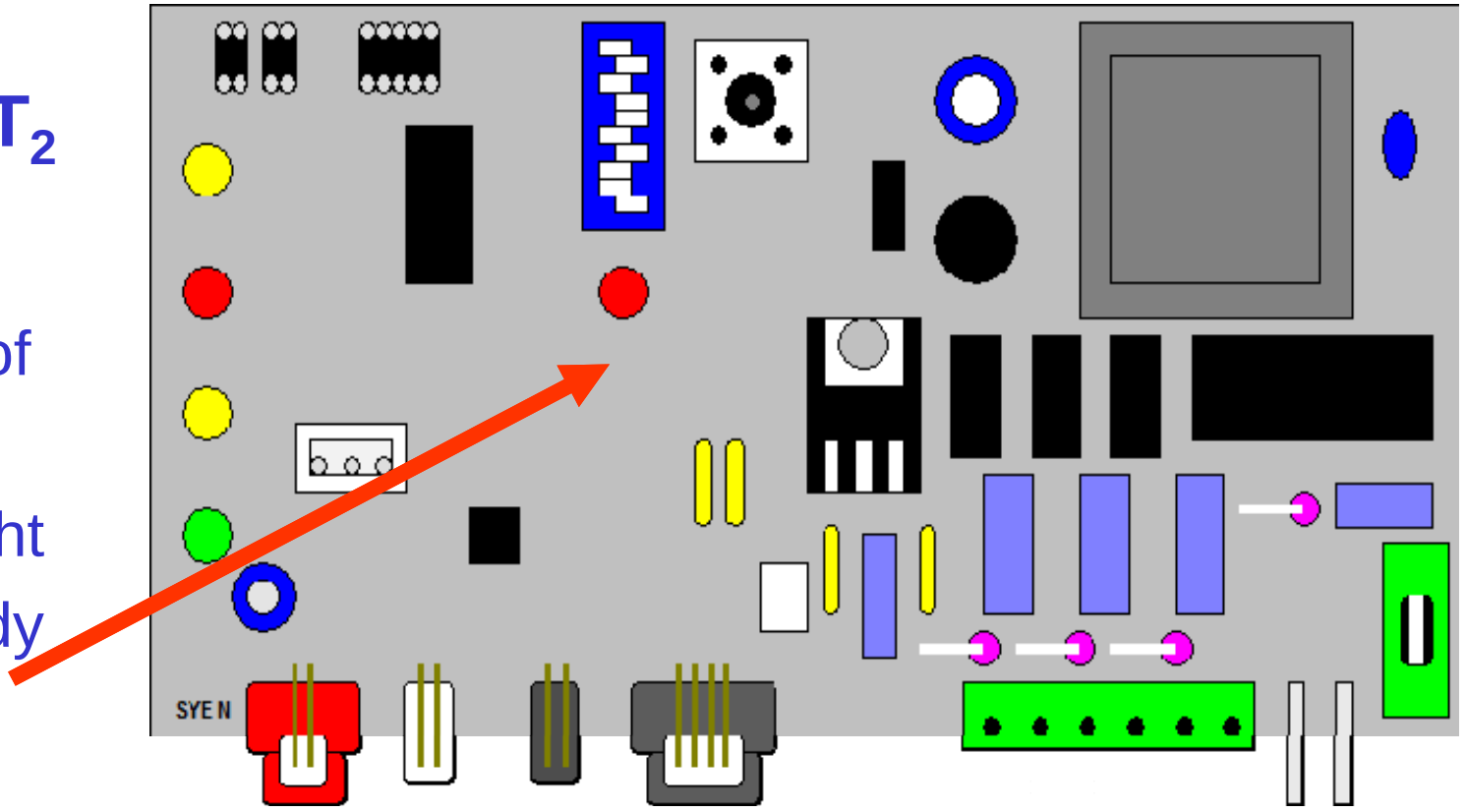
NEW MXG SERIES

OPERATING PRINCIPLES – PC BOARD

Time T_2

From blinking of Red LED till the light ON steady of -15°C Red LED



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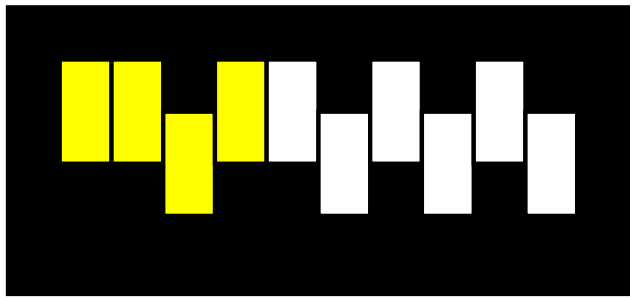
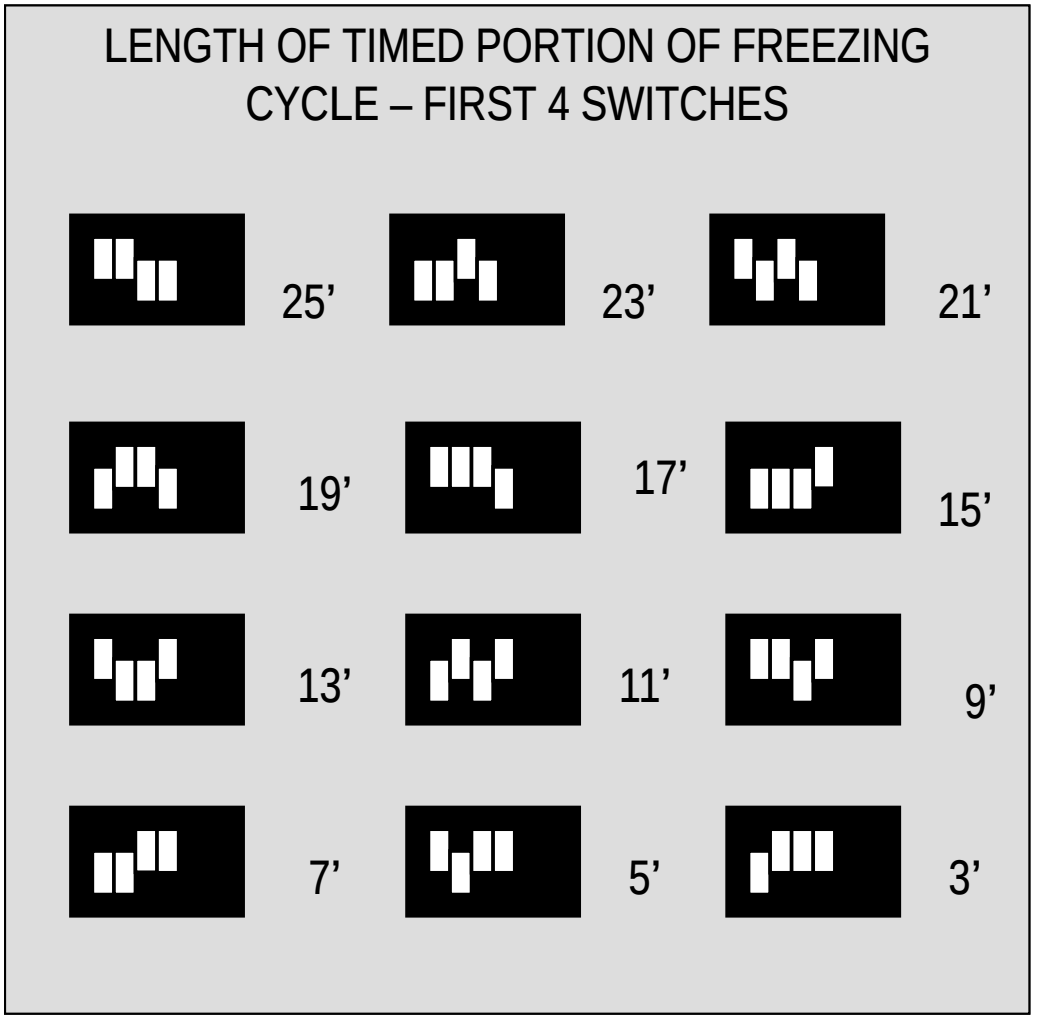
NEW MXG SERIES

OPERATING PRINCIPLES – PC BOARD

Time T_a

Added time controlled by the PC Board according to the setting of the DIP SWITCH 1, 2, 3 and 4.





Scotsman Ice Systems

OPERATING PRINCIPLES – PC BOARD

Time T_s

Harvest **Time T_s** is controlled by the PC Board and it is inversely proportional to the Time T_2 of the Freeze Cycle (from 0ºC to -13ºC) as per the **combination A** of the Table.

Time T_s is NOT adjustable.

LENGTH OF HARVEST CYCLE ACCORDING TO THE TIME TO DROP THE EVAP. TEMPERATURE FROM 0ºC TO -13ºC

LENGTH HARVEST CYCLE	PROGRAMS			
	A	B	C	D
180”	Up to 6’	***	Up to 9’	***
165”	6’-7’	Up to 3’	9’-10’	***
150”	7’-8’	3’-3’15’	10’-11’	***
135”	8’-9’	3’15”-3’30”	11’-12’	***
120”	9’-10’	3’30”-4’30”	12’-13’	Up to 3’
105”	10’-12’	430”-6’	13’-15’	3-4’
90”	>12’	>6’	>15’	>4’

Scotsman Ice Systems

OPERATING PRINCIPLES – PC BOARD

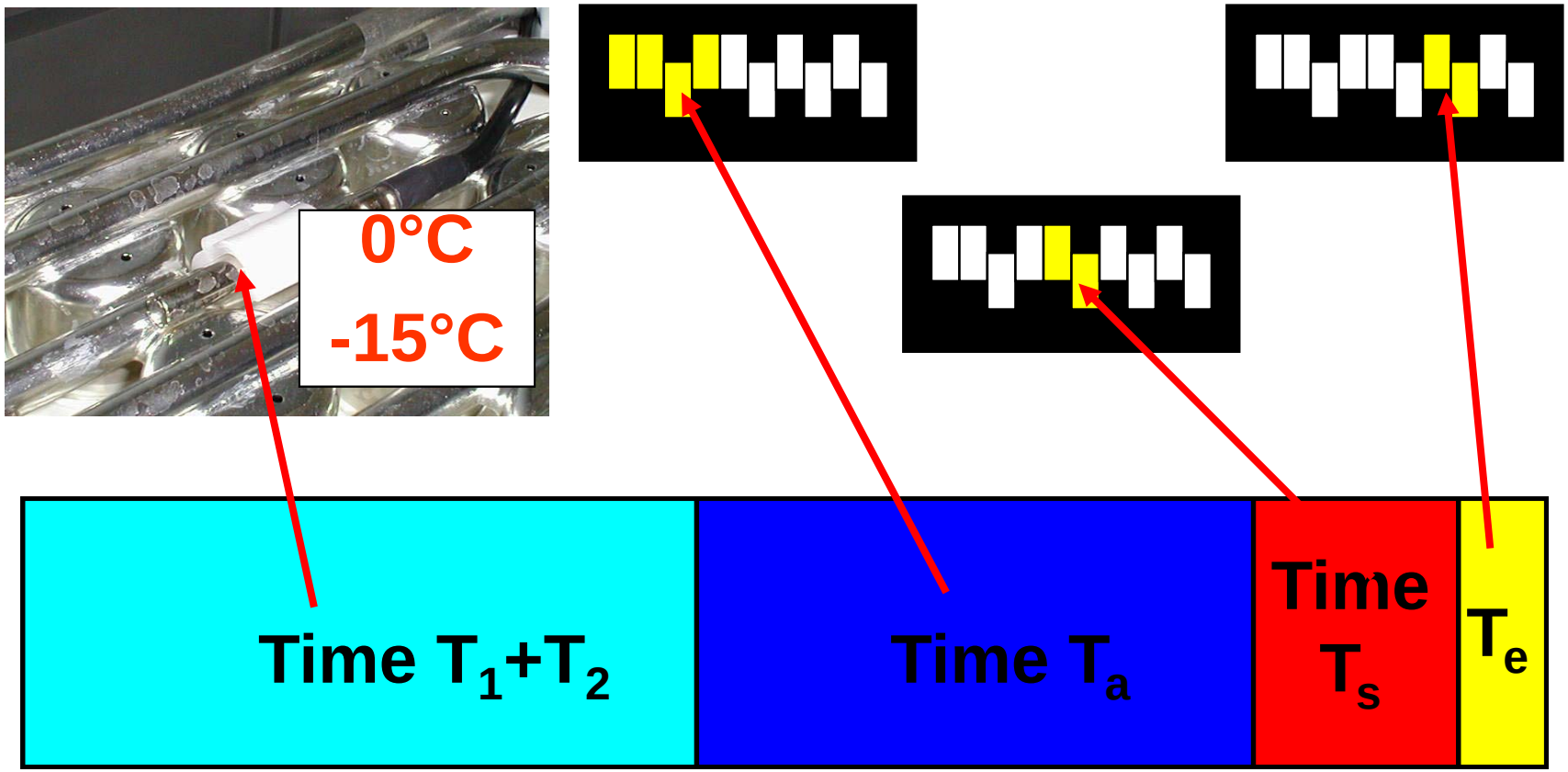
It's possible to **extend the length of the harvest cycle (T_e)** by means of the **DIP SWITCH 7 and 8** as per below chart.

DIP SWITCH		ADDITIONAL DEFROST TIME
7	**8**	
ON	ON	0
OFF	ON	30"
ON	OFF	60"
OFF	OFF	**WATER PUMP OFF**

Scotsman Ice Systems

NEW MXG SERIES

OPERATING PRINCIPLES – PC BOARD



Freezing = $T_1 + T_2 + T_a$

Defrost/Harvest = $T_s + T_e$

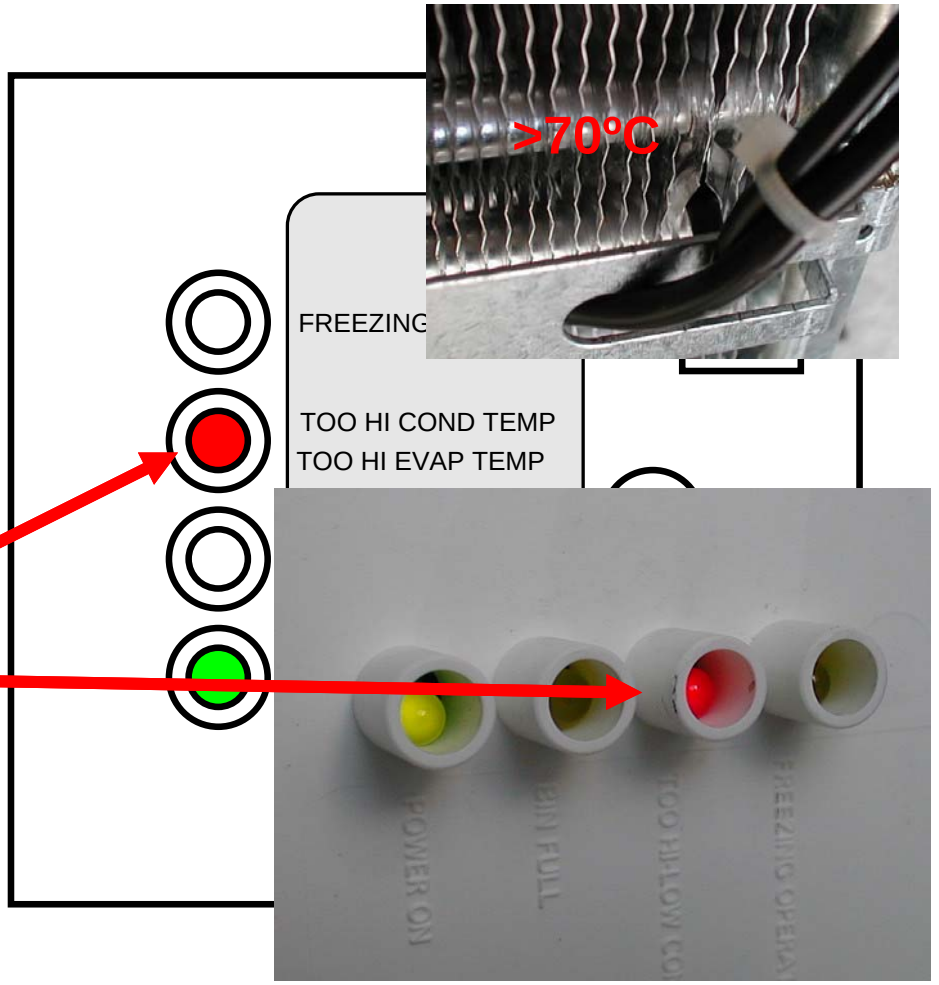
Scotsman Ice Systems

NEW MXG SERIES

OPERATING PRINCIPLES – PC BOARD ALARMS

TOO HI COND. TEMPERATURE

Whenever the condensing temperature rise up to **70ºC** (air cooled version) or **60ºC** (water cooled version) the PC Board will switch OFF immediately the entire machine with the **light ON** of the **Red ALARM LED**.



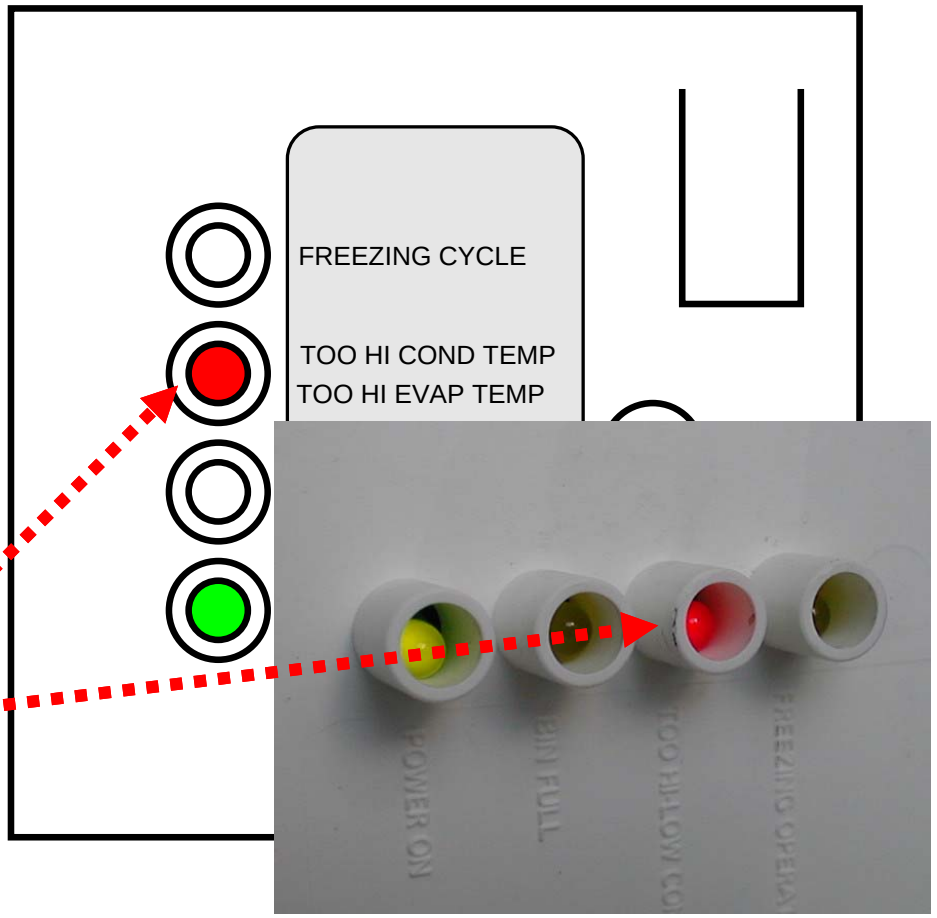
Scotsman Ice Systems

NEW MXG SERIES

OPERATING PRINCIPLES – PC BOARD ALARMS

TOO HI EVAPORATOR TEMPERATURE

In case the evaporating temperature remains higher then **0ºC after 15 minutes** from the beginning of the freezing cycle the PC Board will switch OFF immediately the entire machine with the **blinking** of the **Red ALARM LED**.



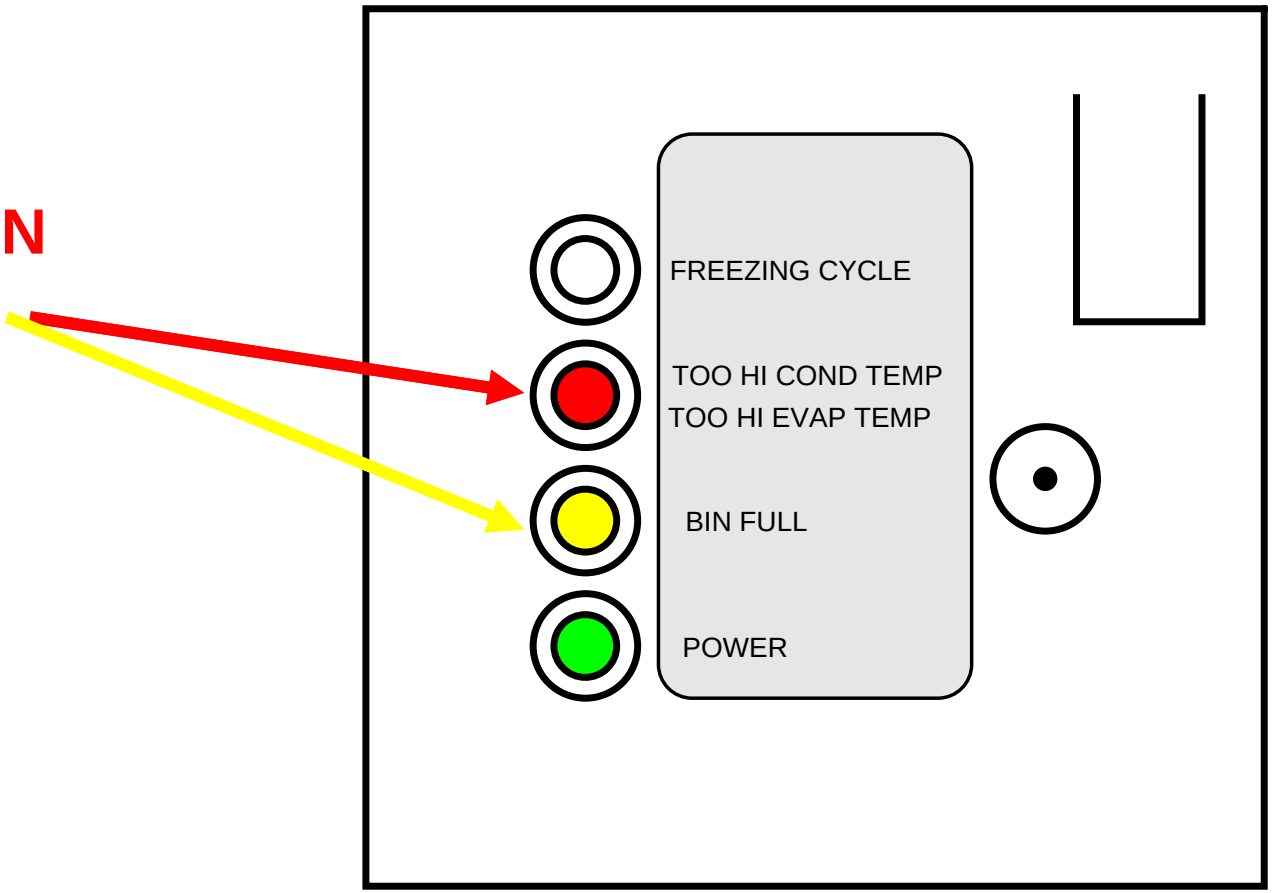
Scotsman Ice Systems

NEW MXG SERIES

OPERATING PRINCIPLES – PC BOARD ALARMS

CONDENSER SENSOR OUT OF ORDER

In case both the Red and Yellow LED are **light ON steady** the condenser sensor is out of order and need to be replaced.



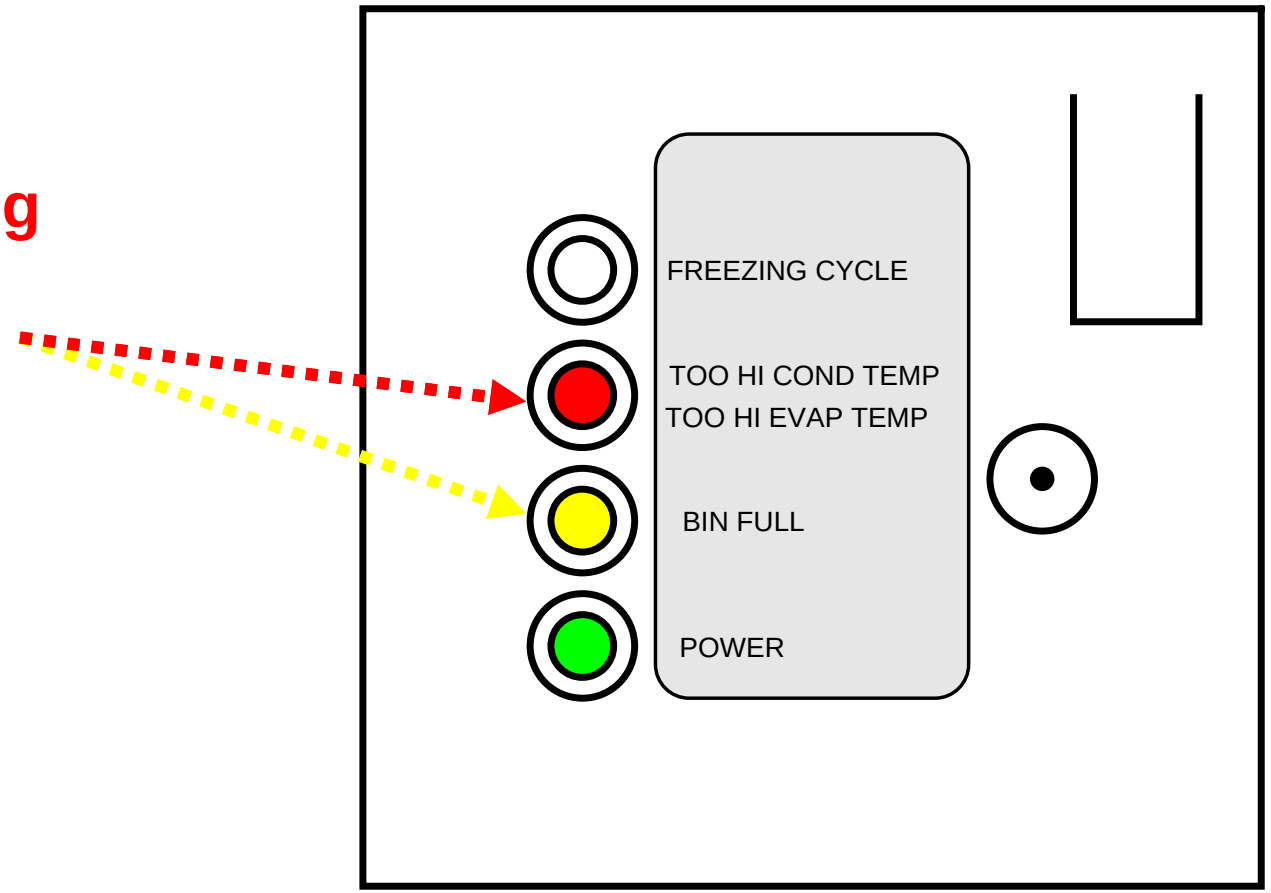
Scotsman Ice Systems

NEW MXG SERIES

OPERATING PRINCIPLES – PC BOARD ALARMS

EVAPORATOR SENSOR OUT OF ORDER

In case both the Red and Yellow LED are **blinking** the evaporator sensor is out of order and need to be replaced.

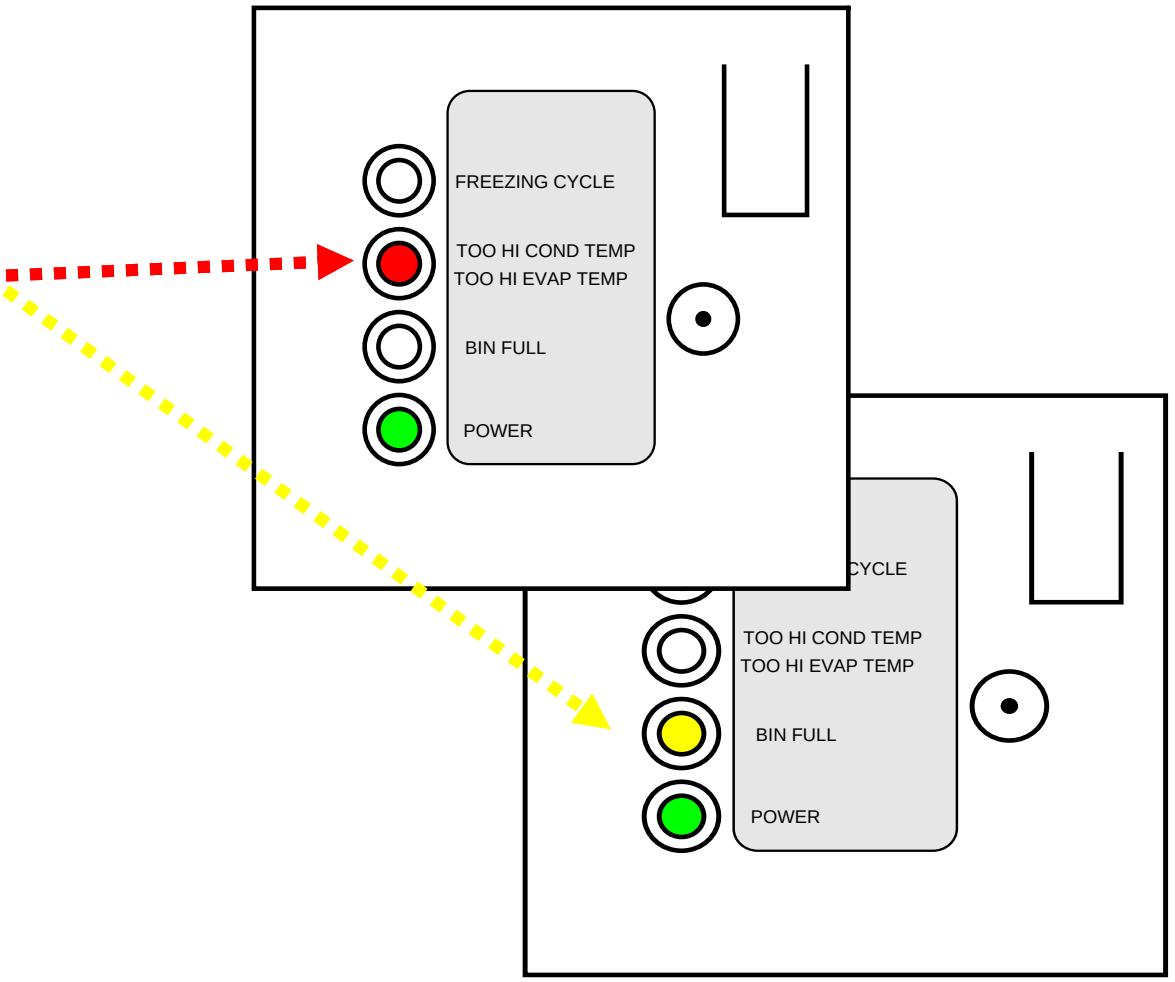


Scotsman Ice Systems

NEW MXG SERIES

OPERATING PRINCIPLES – PC BOARD ALARMS
ICE LEVEL CONTROL OUT OF ORDER

Whenever red and yellow LEDs blinks alternatively ice level control is our of order then have to be replaced



Scotsman Ice Systems

NEW MXG SERIES

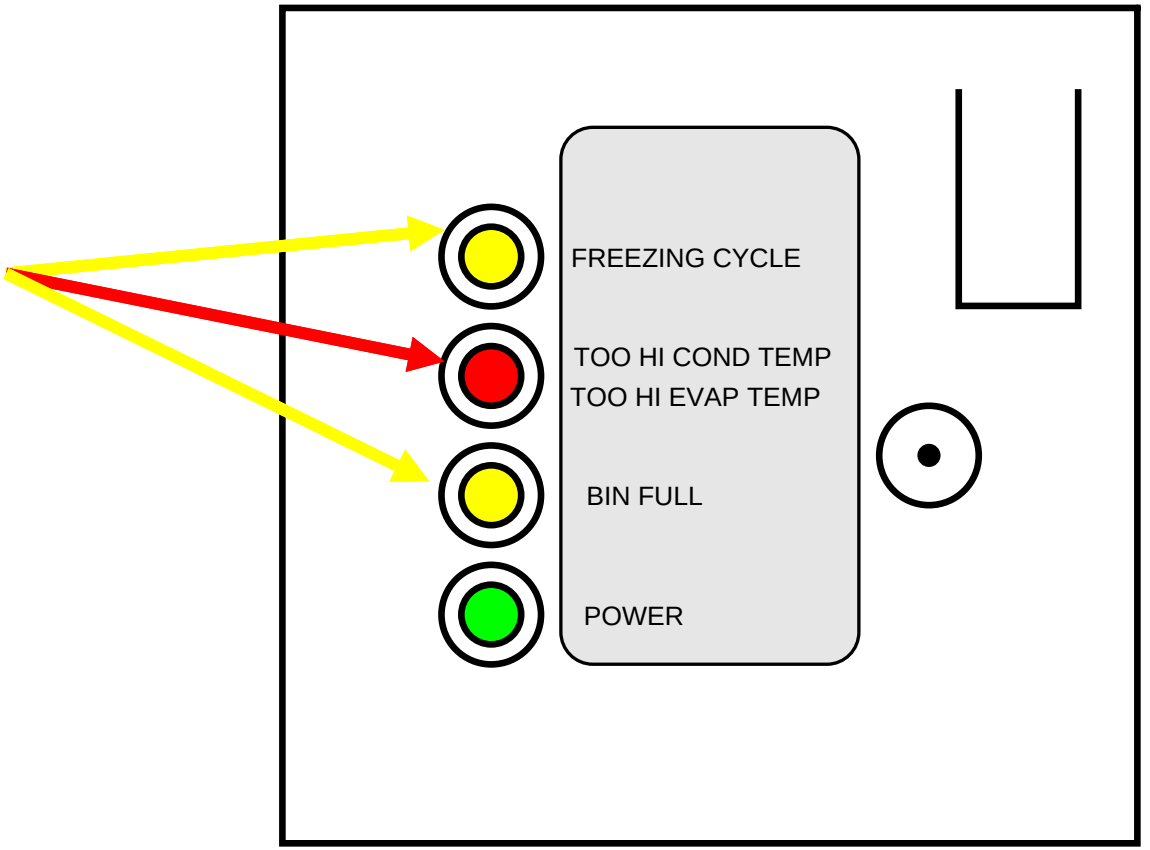
OPERATING PRINCIPLES – PC BOARD ALARMS
ICE LEVEL CONTROL CALIBRATION

Three LED flash :

ice level control –

PCB balance /

calibration done



Scotsman Ice Systems

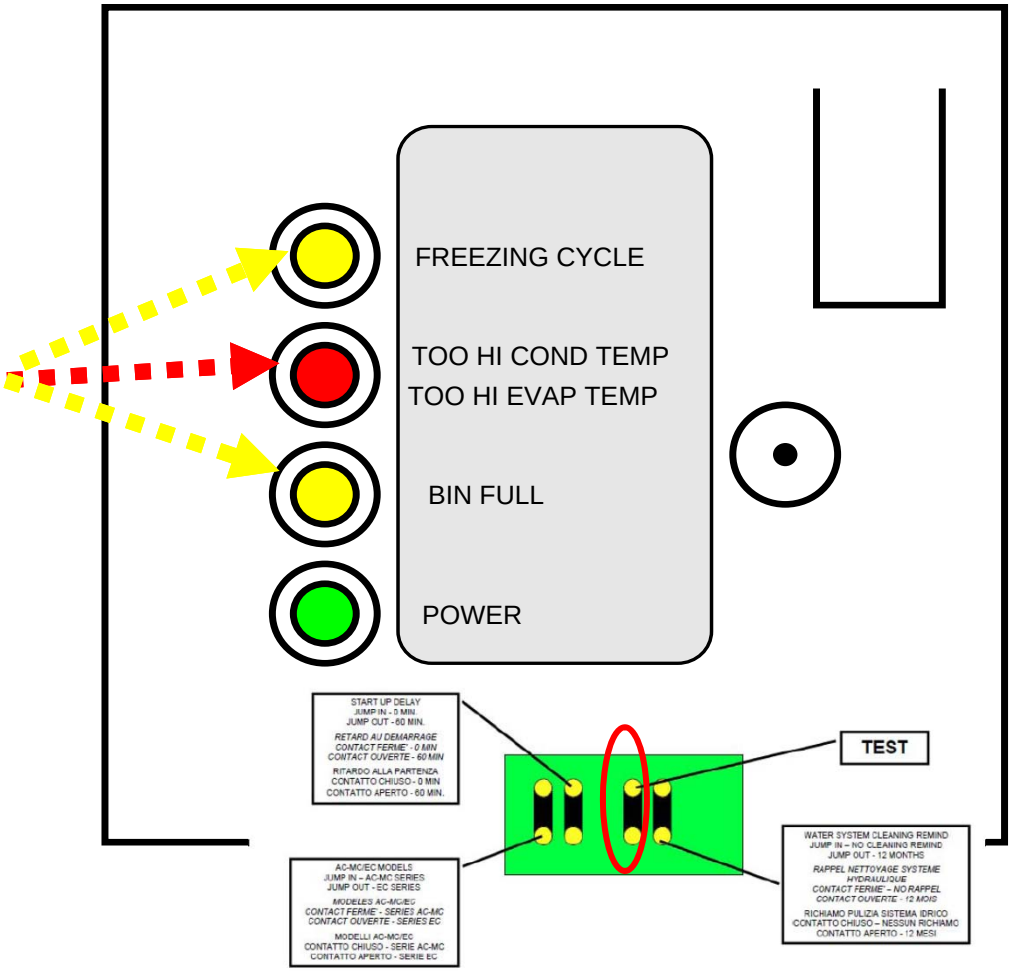
NEW MXG SERIES

OPERATING PRINCIPLES – PC BOARD ALARMS CLEANING – MISSING TEST JUMPER

Three LEDs blinking: unit in

cleaning cycle or missing

test jumper removal



Scotsman Ice Systems

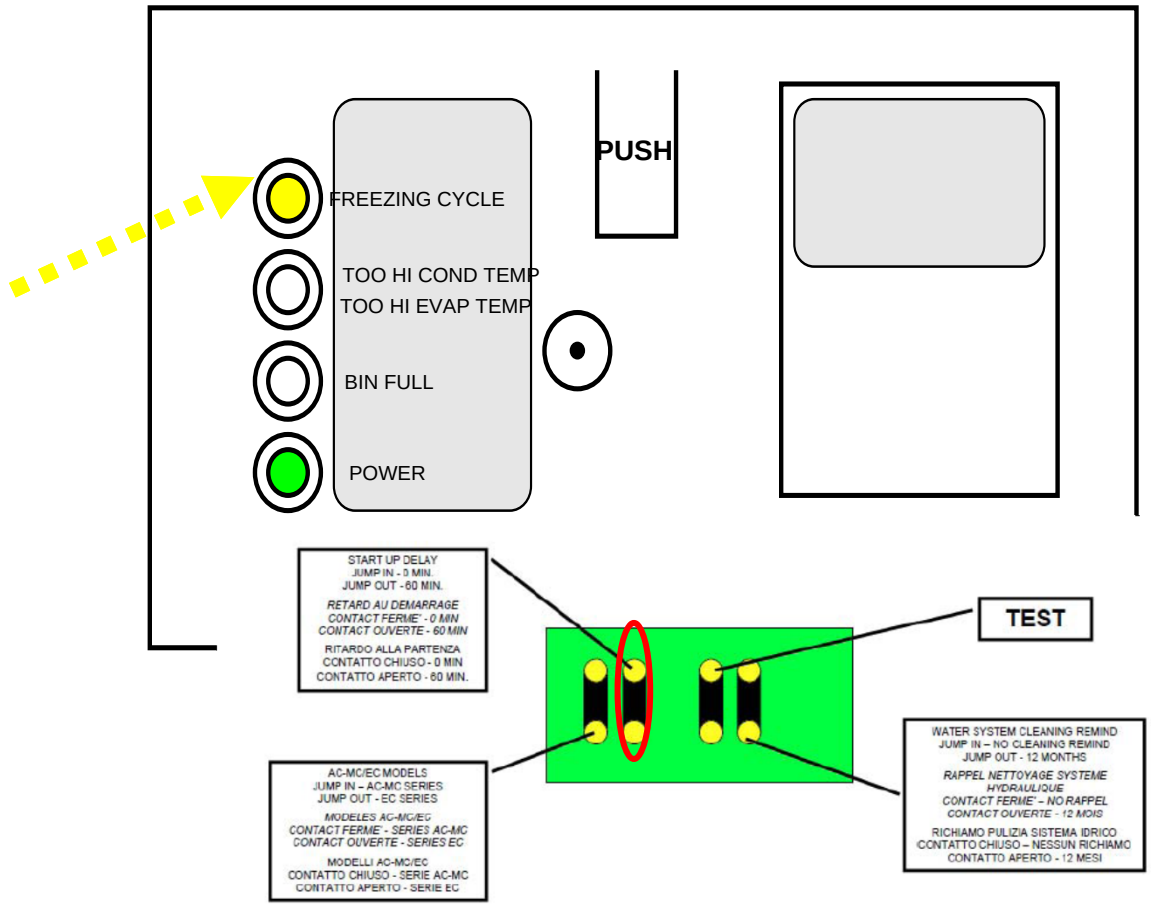
NEW MXG SERIES

OPERATING PRINCIPLES – PC BOARD ALARMS

START UP DELAY

Yellow LED blinking at unit start up with ice maker OFF:

60’ delay – Jumper J3 OPEN



COMPONENTS - REFRIGERANT SYSTEM

The components of the refrigerant system of the MC Series are composed by:

- **COMPRESSOR**

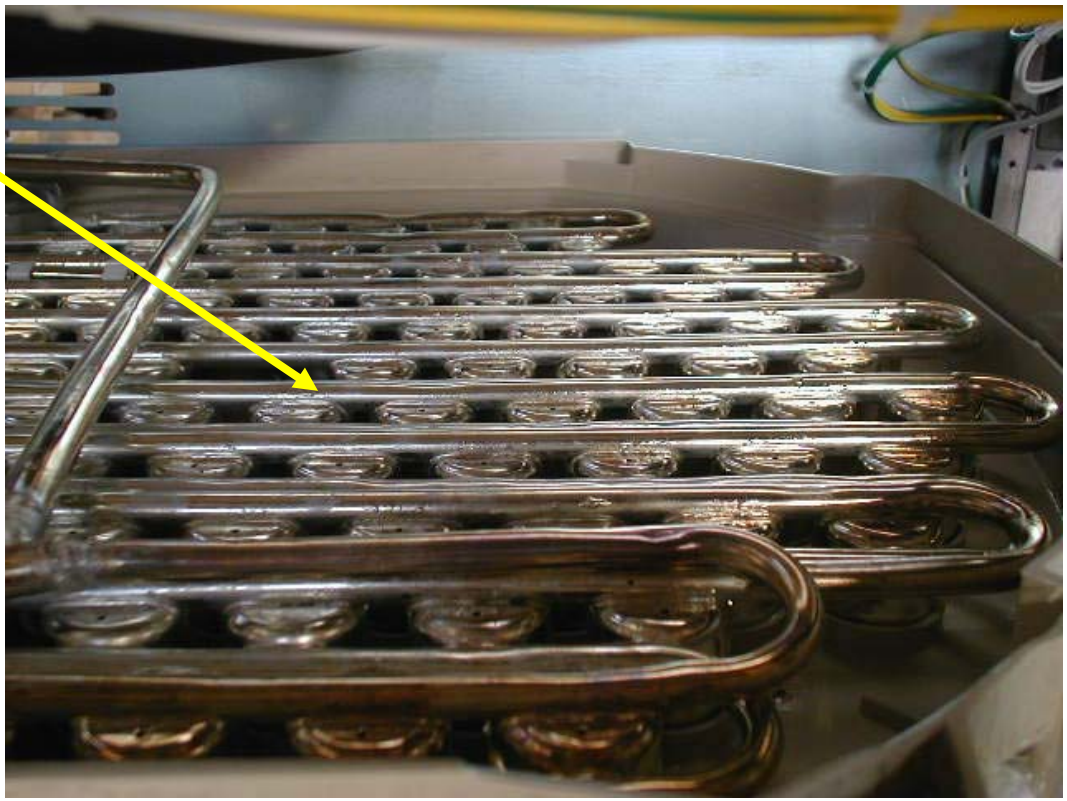
Scotsman Ice Systems

COMPONENTS - REFRIGERANT SYSTEM

- AIR COOLED CONDENSER

COMPONENTS - REFRIGERANT SYSTEM

- EVAPORATOR



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COMPONENTS - REFRIGERANT SYSTEM

- SUCTION LINE AND CAPILLARY TUBE

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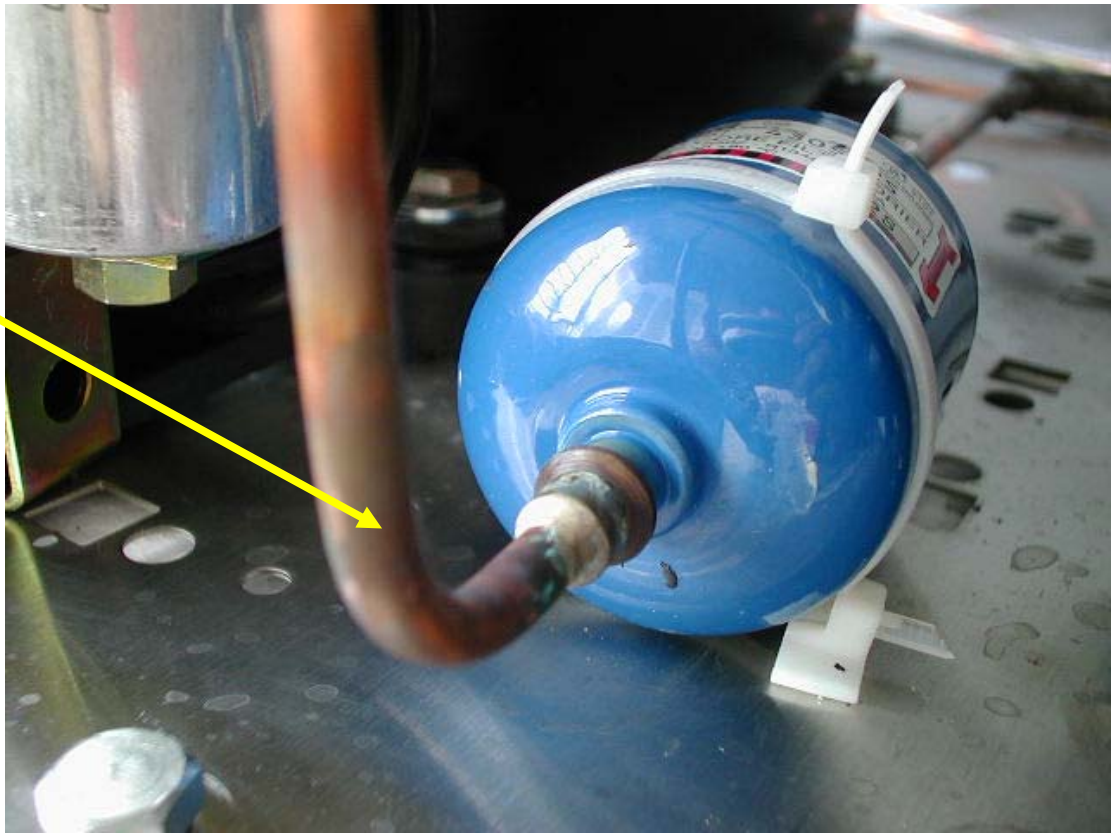
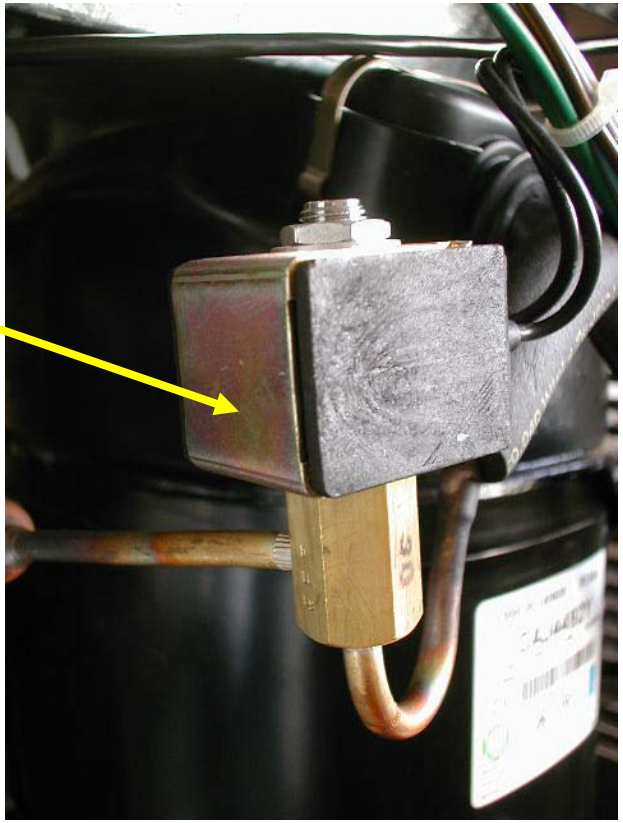
COMPONENTS - REFRIGERANT SYSTEM

- DRIER



COMPONENTS - REFRIGERANT SYSTEM

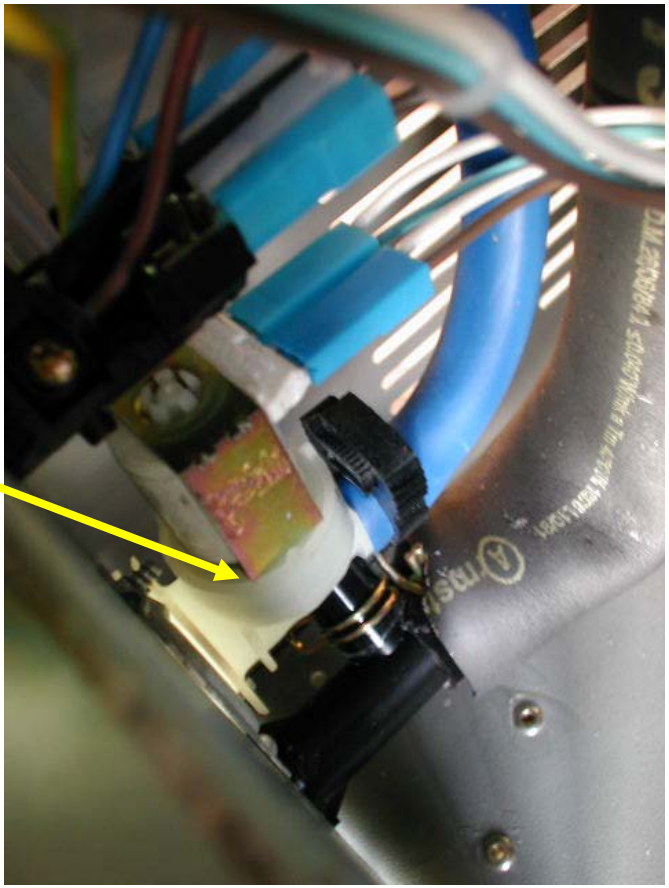
- HOT GAS VALVE



COMPONENTS - WATER SYSTEM

The components of the water system of the MC Series are composed by:

- **WATER INLET VALVE**



COMPONENTS - WATER SYSTEM

- **WATER SUMP**

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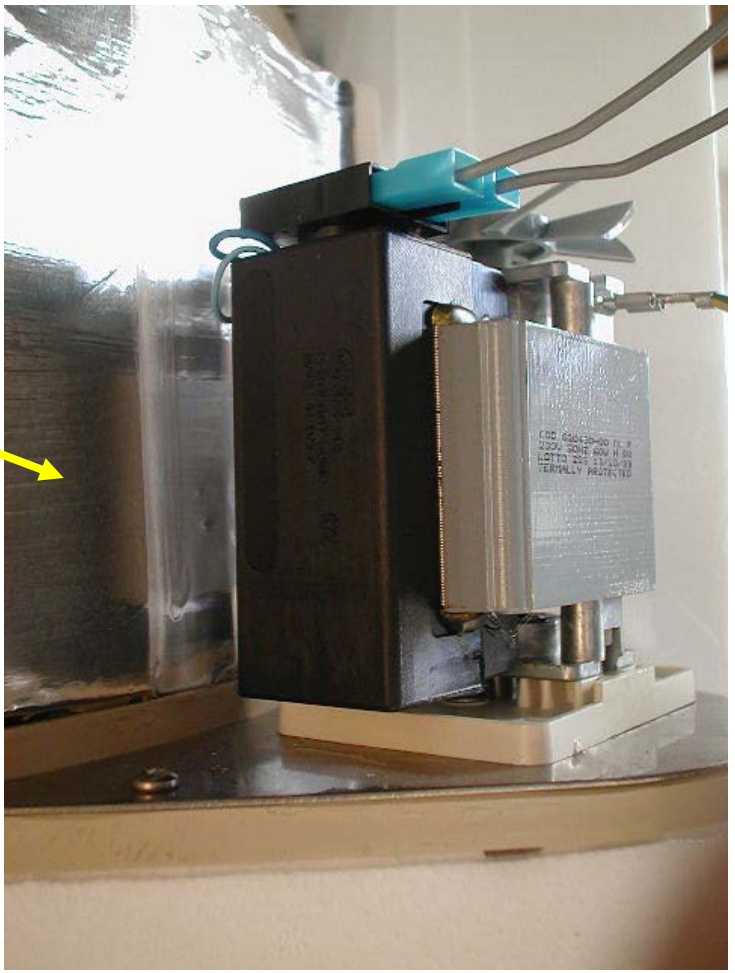
NEW MXG SERIES

COMPONENTS - WATER SYSTEM

- WATER PUMP



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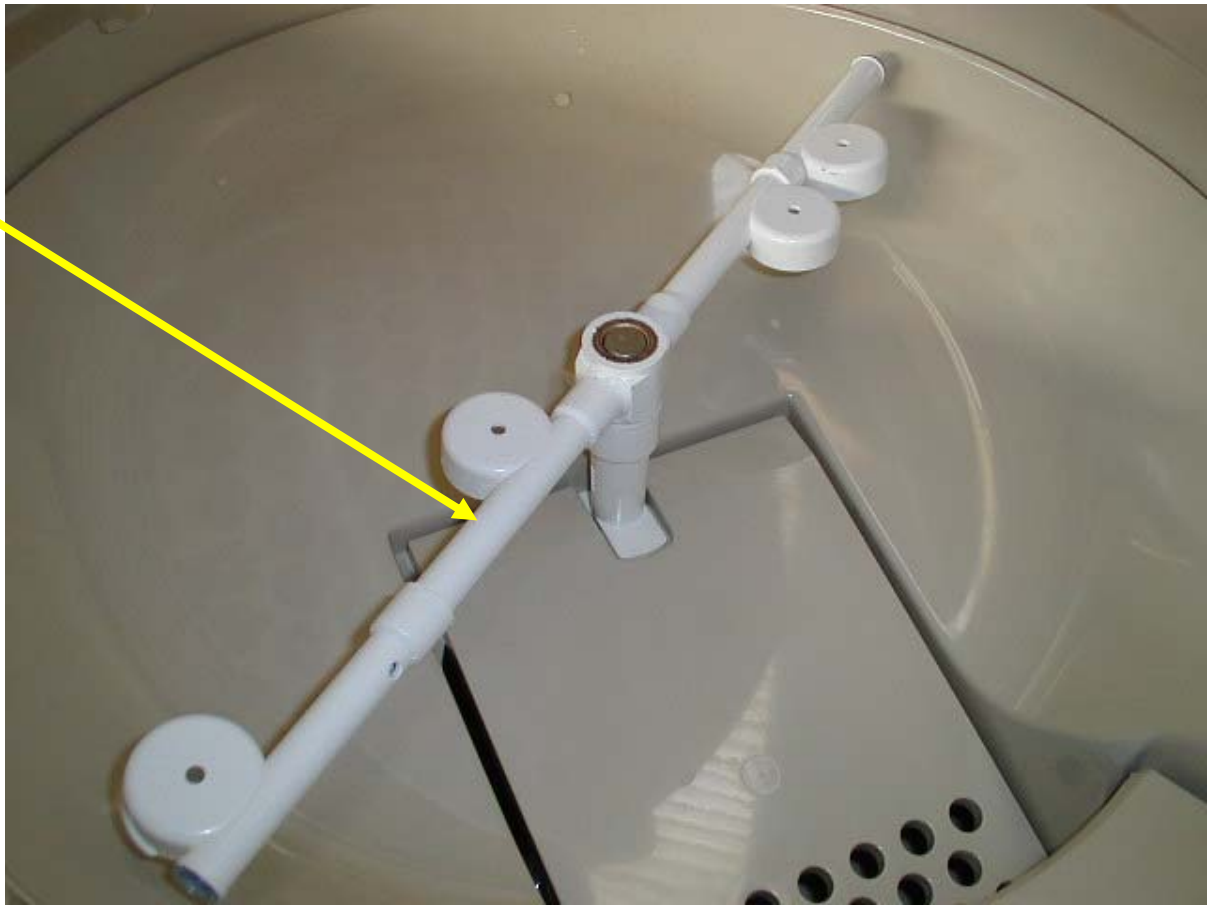
NEW MXG SERIES

COMPONENTS - WATER SYSTEM

- SPRAY BAR



COMPONENTS - WATER SYSTEM

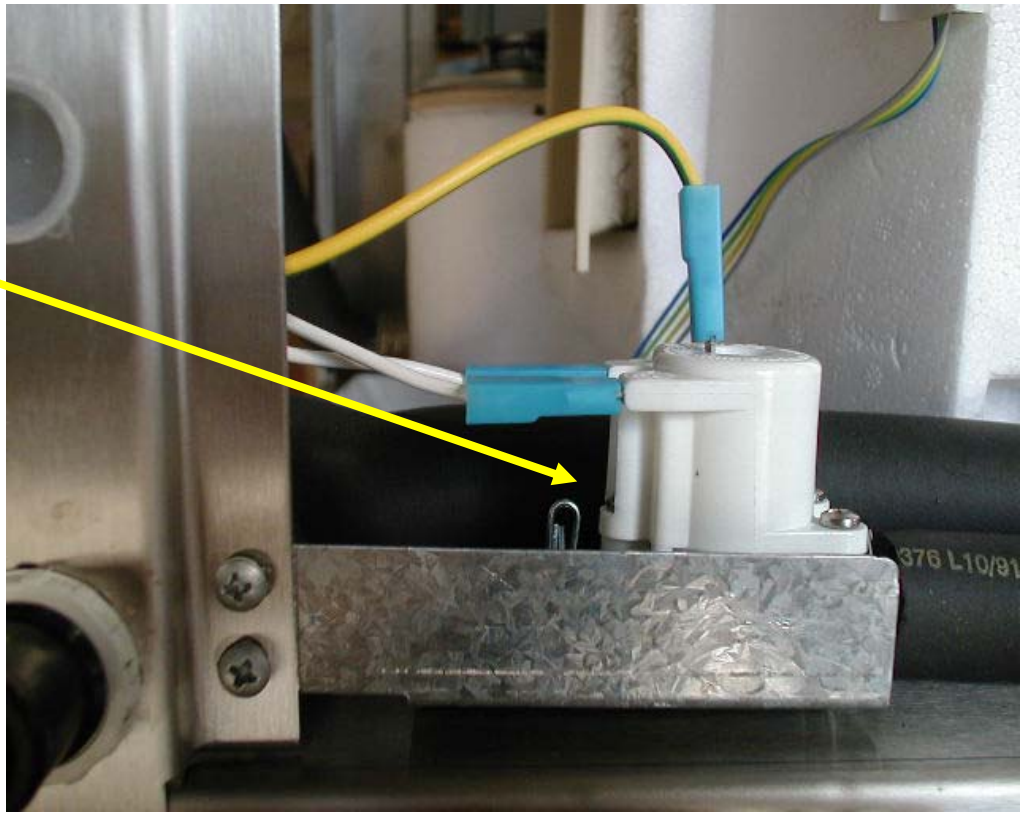
- OVERFLOW

Scotsman Ice Systems

NEW MXG SERIES

COMPONENTS - WATER SYSTEM

- WATER DRAIN VALVE



COMPONENTS - ELECTRICAL CONTROLS

The components of the Electric System of the MXG Series are composed by:

- **MASTER SWICH**

Scotsman Ice Systems

NEW MXG SERIES

COMPONENTS - ELECTRICAL CONTROLS

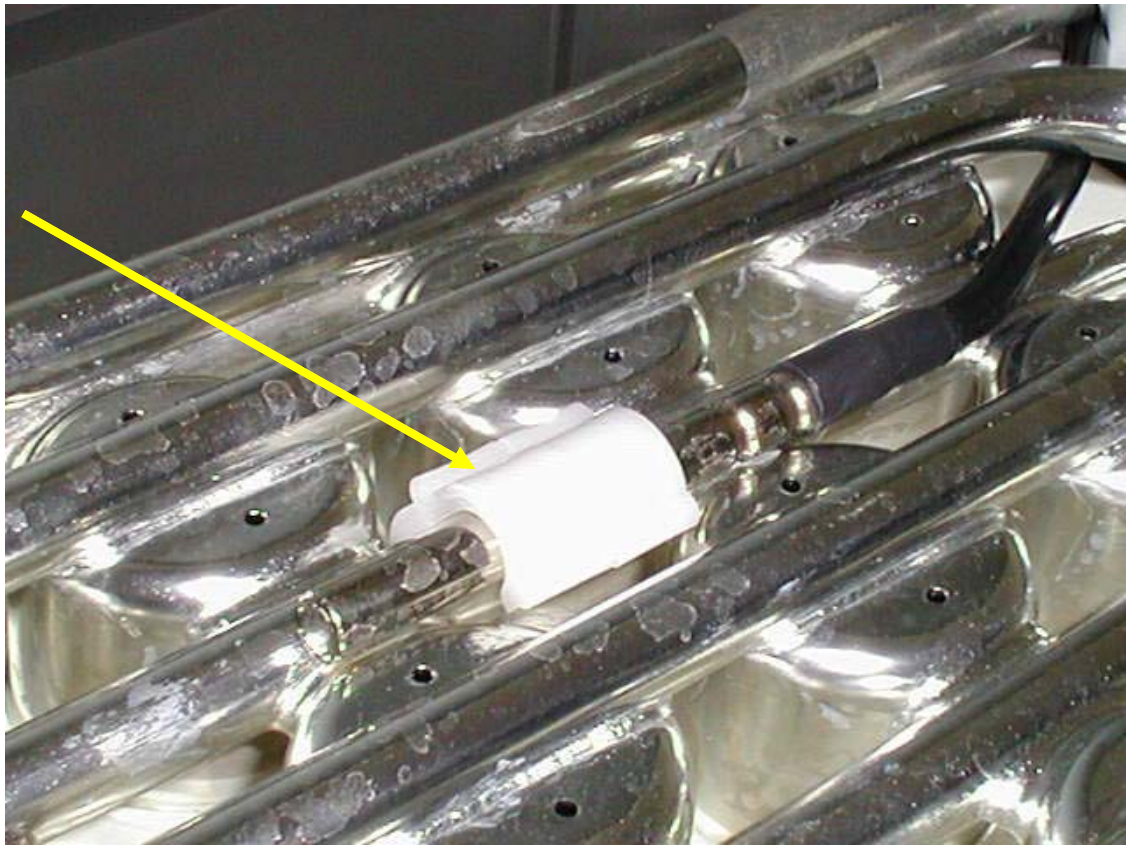
- PC BOARD

Scotsman® Ice Systems

NEW MXG SERIES

COMPONENTS - ELECTRICAL CONTROLS

- EVAPORATOR SENSOR



Scotsman® Ice Systems

NEW MXG SERIES

COMPONENTS - ELECTRICAL CONTROLS

- CONDENSER SENSOR

Scotsman Ice Systems

NEW MXG SERIES

COMPONENTS - ELECTRICAL CONTROLS

- OPTICAL ICE LEVEL CONTROL


Scotsman
Ice Systems
END FIRST
HALF