



MX90



DIGITAL PARAFFIN DISPENSER

MODEL MX90



PRODUCT MANUAL





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Congratulations!

You have just acquired a great product from Cancer Diagnostics, Inc. This product is the result of many years of research and development providing a product with excellent quality and ease of use.



Please read this manual before switching on the product or operating it.

1-) Product description:

DIGITAL PARAFFIN DISPENSER - MODEL MX90 was developed for use in the Anatomical Pathology Laboratory. Suitable for paraffin dispensing during the preparation and inclusion of paraffin blocks.

The product provides:

- Procedure Manual
- Warranty certified
- Power cable
- Spare fuse

2-) Techniques specifications of the product:

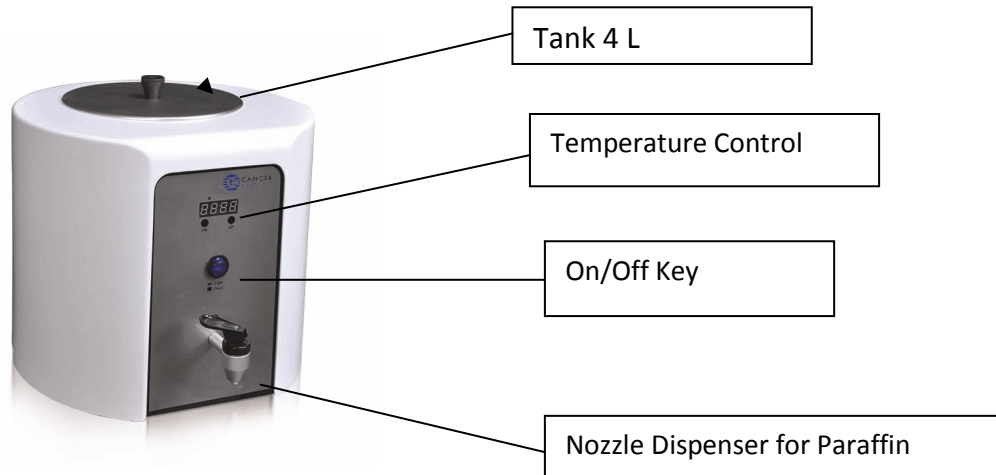
- **Voltage:** 127 V or 220 V/50-60 Hz (Optional - without selector switch. The voltage choice must be made in the act of the purchase).
- **Input Maximum Current:** 127 V = 3,5 A and 220 V = 1,5 A
- **Potency:** 330 W
- **Fuse:** 20 mm, normal, 5A current (127 V and 220 V).
- **Thermal Protector:** Disarm to high temperature when it reaches 212 °F (100 °C). General shutdown of the equipment. Automatic rearm below 203 °F (95 °C).
- **Operation Mode:** Continuous
- **Protection Against Incoming Water Harmful:** IPX0
- **Capacity:** Up to 4 liters of paraffin
- **Temperature control:** Environment temperature up to 90 ° C with a range of up to + - 2 ° C through Digital Thermostat.
- **Tank height:** 155 mm
- **Tank external diameter:** 180 mm
- **Tap depth:** 60 mm





- **Equipament width:** 310 mm
- **Equipament total height:** 180 mm
- **Equipament depth:** 295 mm
- **Net weight:** 5,5 kg
- **Gross weight:** 6,5 kg
- **Packing External Dimensions:** 400 mm X 400 mm x 400 mm
- **Product in agreement with IEC 61010, Class I**
- **Product in agreement with IEC 61010-2010 and 98/37 Regulations.**

3-) Product parts:



4-) Product use instructions:

Read the instructions for using the equipment in the best possible way for greatest longevity of the equipment. Pay attention to the precautions that need to be taken while handling the equipment.

Read the Warranty Terms.

NOTE:

1. Before connecting the product to power source, make sure if the network voltage is the same of product.
2. Clean this product as determined by this manual.
3. Do not exceed the maximum level. There should always be 10 mm under the edge of paraffin tank.
4. Connect the power cable through the back connector.



5. Power the equipment with the On/Off Switch from the Front Panel. Upon turning on the switch, a luminous indication shows that the product is powered and ready to operate.



6. On the front panel there are four keys, three keys for Product temperature adjustment. The F key is used only for factory maintenance. (Accidentally touching it does not cause any damage to product usage).



7. When the product is turned on the tank current temperature appears on the screen.



Activate the PR key and the message SP will appear on the screen:

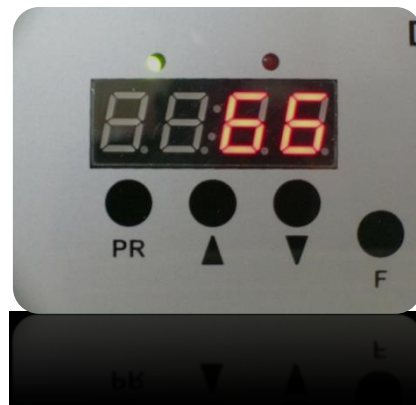


Activate the PR key again and the temperature to be set to work appears flashing on the screen.



Activate the ▲ key to increase the tank temperature value.

Activate the ▼ key to decrease the tank temperature value.



Click again on [PR] button and hold it for 5 seconds to confirm the set value. Then the SP message and then the internal current temperature from tank appear on the screen.

During the heating process, especially when the product is turned on, the indicated temperature on the front panel may exceed the job-selected value. This does not affect the product operation and in a few minutes the temperature stabilizes and is expected to remain stable due to the specified value. After about an hour check if the set temperature value corresponds the Front Panel's one.

- The indicated temperature on the front panel is the current temperature of the paraffin inside of tank.
- When routine work is over you can turn off the product by pressing the on/off switch from the front panel so that the indicator light turns off. We recommend keeping the product turned off if not used daily or for long periods. Do not forget to clean and dry the tank after use.

NOTE: DO NOT TURN ON THE TAP BEFORE THE PARAFFIN IS MELTED. IT MAY CAUSE DAMAGE

5-) Cleaning:

Product surfaces are easy to clean.

To clean the product you need to unplug it from the power and wait for the inner container cool. For cleaning product and paraffin removal that is deposited on the surface, use a soft cloth soaked in kerosene.



After cleaning with kerosene, you can apply with soft, moist cloth, and a neutral detergent.



Solvents such as Xylene and its derivatives should not be used for cleaning the equipment. This will cause irrecoverable damages to the Product!

6-) Cautions and Warnings:

Read the product handling instructions carefully and forward technical details before use. - Make sure that the product and the laboratory electric current match, and then connect the product in the power outlet.


- The product tank can get very hot during the process so, beware of burning.
- Change the paraffin always when it is necessary.

The product was designed for using exclusively with Paraffin Wax! Flammable fuels or substances should not be handled close to or in the product!

- The equipment should not be used without water in the tank. You risk damage to equipment and loss of warranty.
- For any repair or maintenance, the Authorized Service Center must be called.

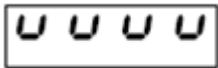
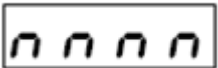
7-) Maintenance and possible problems and resolutions:

- For any repair or maintenance, the product must be turned off and unplugged from the power outlet.
- See below some problems that can occur and their causes and solutions.
- If the problem does not fit in these descriptions, please contact immediately our Service Center
- see more details in the end of the manual.

Problem	Cause	Solution
Nothing happens when set the key in power (ON).	Is the input power cable connected correctly in the power outlet?	Check if the input power cable is fully inserted in the power outlet and in the equipment.
	Check if the power ON/OFF key is on (ON)	Put the key at ON position. Check for power into the outlet.
	Fuse  <small>*Not representative of the fuse in your equipment</small>	Remove the fuse from the fuse holder and check for broken or blown filament . If necessary, replace it for similar size and volt/amperage.





Problem	Cause	Solution
The Paraffin in the tank does not heat.	<p>Check the previous steps.</p> <p>Check the controller temperature selection.</p> <p>The heating resistor is damaged.</p>	<p>Same the steps above.</p> <p>Adjust the temperature.</p> <p>Call the Authorized Service Center.</p>
	Open sensor	Call the Authorized Service Center.
	Sensor with a short circuit	
The paraffin does not get out the tap.	<p>Make sure the paraffin is melted in the tank.</p> <p>Make sure the dispenser nozzle is warm enough to melt.</p>	<p>Wait for the paraffin to melt.</p> <p>Remove the tap driver with care and replace the rubber seal.</p> <p>Call the Authorized Service Center.</p>

8-) WARRANTY:

- Warranty terms are attached to this manual.

9-) SYMBOLS:



Keep Away from Heat
Sensível ao calor



Fragile
Handle with care
Fragil

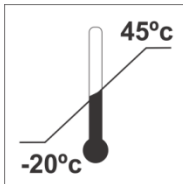




MX90



Keep Away from Rain
Manter Distante de Chuva



Recommended storage temperature:
Guardar em temperatura:

- 20° C to 45° C



PARAFFIN DISPENSER MX90

Voltage: 127 V 220V

Power: 330W Product of Brazil

Frequency: 50/60HZ

Serial No.: XXXXX

Date of manufacture: XXXXXX

Expiration: Indefinite



Voltage: 127 V 220 V

Power: 330 W

Frequency: 50/60HZ

CLASSE 1 EQUIPMENT

Date of
manufacture:

Número de Série:

Operation:
Continuous

IPX0

