

LUPETEC[®]

TECNOLOGIA APLICADA



DIGITAL COLD PLATE

MODEL PR 2010D



PROCEEDING MANUAL

Lupe Indústria Tecnológica de Equipamentos para Laboratório LTDA – ME

INDÚSTRIA BRASILEIRA – PRODUTO NACIONAL

Site: www.lupetec.ind.br

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Congratulations!

You have just acquired a Product with Total Brazilian National Technology.

This product is the result of many years of research and development so that you have a product with excellent quality.

We are glad for your appreciation of the Brazilian National Industry that throughout the years has been gradually dedicating itself to deliver trustworthy products and which care for the expectations of our Customers.



It is indispensable to read this manual before switching on any product operation.

1-) Product description:

DIGITAL COLD PLATE – MODEL PR 2010D was developed for use in Pathological Anatomy Laboratory. Indicated specially for quick cooling paraffin blocks and plastic cassettes.

The product provides:

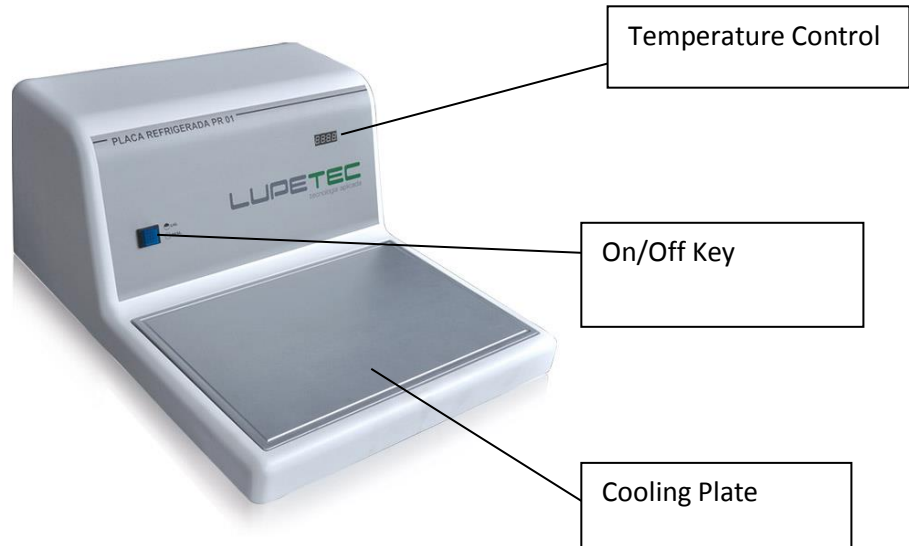
- Procedure Manual
- Warranty certified
- Power cable
- Spare fuse

2-) Especificações Técnicas do Produto:

- **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 = 1,8 A and 220 V = 1 A
- **Potency:** 220 W
- **Fuse:** 20 mm, normal, 10A current (127 V and 220 V).
- **Operation Mode:** Continuous
- **Protection Against Incoming Water Harmful:** IPX0
- **Capacity:** up to 100 Plastic Cassettes or 80 Paraffin Blocks
- **Temperature control:** Environment temperature to -15 ° C with a range of up to + - 2 ° C through Digital Thermostat. Environment temperature 22 °C.
- **Equipment height:** 280 mm
- **Equipment width:** 470 mm
- **Equipment depth:** 60 mm

- **Net weight:** 18 Kg
- **Gross weight:** 22 Kg
- **Packing External Dimensions:** 680 mm X 610 mm x 420 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 greater durability of the equipment. Pay attention to the precautions that need to be taken while handling the equipment.

Read the Warranty Terms.

NOTE:

1. Before powering on this product, let it be off for at least 12 hours before putting it into operation. This procedure should be performed so that the compressor gas is stabilized after transport and does not burn the compressor.
2. Before connecting the product to power source, make sure if the network voltage is the same of product.
3. Clean this product as determined by this manual.
4. Connect the power cable through the back connector.



5. Connect the equipment with the On/Off Switch from the Front Panel. When driving 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 adjust. 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 cooling plate 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 cooling plate temperature value.

Activate the ▼ key to decrease the cooling plate 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.

8. The indicated temperature on the front panel is the current temperature of cooling plate.

9. Keep the device 15 cm of distance from the wall to allow air to circulate normally, avoiding compressor overheating.
10. When work routine 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 cooling plate after use.

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.



Solvent as Xylene and its derivatives does not have to 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 instruct with the 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 water always when it is necessary.

Risk of fire!

Flammable fuels or substances should not be handled close to the product!

- The equipment should not be used without water in the tank. Damage risks 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
The device is not working.	The power input cable is not connected properly. The power switch is not powered on.	To check if the input power cable is connected to the power outlet and in the equipment. Check if the ON/OFF switch is powered on.
The cooling is not as expected.	The ambient temperature is too high. Should not be exposed direct to sunlight.	Adjust the room temperature. The temperature should be more pleasant and free from direct sunlight.
	The equipment is too close to the wall. The air does not circulate. Gas leaking in the cooling system.	Place the equipment at least 15 cm from the wall. Technique.
The compressor turns on/off in short time	The electrical line voltage may be varying or outside the equipment specification Compressor with malfunction	Check the power voltage and compare with the equipment specification (110 or 220V) Call a technician or taking the equipment to Technical Assistance
Compressor does not start or power off quickly	Compressor with malfunction	Call a technician or taking the equipment to Technical Assistance

8-) WARRANTY:

- Warranty terms are attached to this manual.

9-) SYMBOLS:



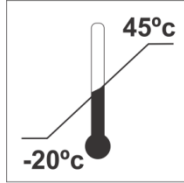
Sensível ao calor
No heat



Frágil
Fragile
Handle with care



MANTER DISTANTE DA CHUVA
Keep away from rain



Guardar em temperatura:
Recommended storage temperature:
- 20° C to 45° C



Empilhamento máximo:
Stacking up recommended:
6 boxes.

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DIGITAL COLD PLATE PR 2010

Voltage: 127 V 220V

Power: 220W

Frequency: 50/60HZ

Serial No.: XXXXX

Date of manufacture: XXXXXX

Expiration: Indefinite

Miguel João Street, 720 - Jd. Bandeirantes

São Carlos - SP - Phone: +55 (16)

33611125

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Voltage: 127 V 220 V

Power: 220 W

Frequency: 50/60HZ

CLASSE 1 EQUIPMENT

Tech. Manager: Luiz Ricardo Martins

CREA-SP: 5060262236

Date of
manufacture:

Número de Série:

Operation:
Continuous

IPX0



Lupe Indústria Tecnológica de Produtos para Laboratório LTDA - ME

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For more information and clarifications please contact our Technical Department +55-11- 2082-3178

Technical Manager: Luiz Ricardo Martins – CREA SP 5060262236

This product is not considered a medical product by The Brazilian Health Surveillance Agency (Anvisa).

Non-perishable product.

Estimated useful life of 5 years.

EUROPEAN REPRESENTATIVE: CINTERQUAL – Soluções de Comercio Internacional, LTDA.

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