

# LUPETEC<sup>®</sup>

TECNOLOGIA APLICADA



**EMBEDDING CENTER**

**MODEL CI 2014**



**PROCEEDING MANUAL**

*Lupe Indústria Tecnológica de Equipamentos para Laboratório LTDA – ME*

***INDÚSTRIA BRASILEIRA – PRODUTO NACIONAL***

Site: [www.lupetec.ind.br](http://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:**

EMBEDDING CENTER – MODEL CI 2014 was developed for use in Pathological Anatomy Laboratory. Especially indicated for the release and paraffin embedding during the preparation of a great amount of blocks and paraffin cassettes.

The product provides:

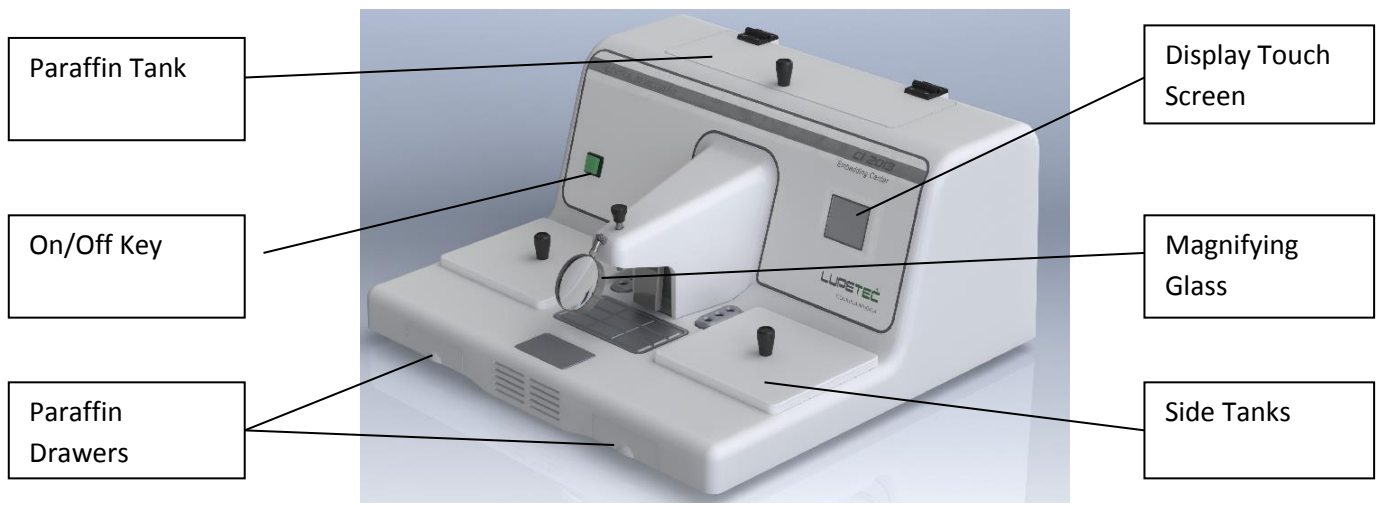
- Procedure Manual
- Warranty certified
- Power cable
- Spare fuse
- Footswitch

### **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 = 9,0 A e 220 V = 4,5 A
- **Potency:** 350 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.
- **Equipment total height:** 280 mm
- **Equipment width:** 630 mm

- **Equipment depth:** 590 mm
- **Drawers:**
- **Height:** 25 mm
- **Width:** 110 mm
- **Depth:** 110 mm
- **Net weight:** 24 Kg
- **Gross weight:** 42 Kg
- **Packing External Dimensions:** 630 mm X 600 mm x 310 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 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. Connect the power cable through the back connector.



4. 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.

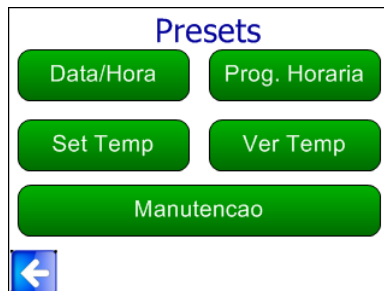


5. When the equipment is turning On, the below screen appears. This is a Touch Screen Panel, therefore to access it you only need to touch the desired operation.



### SETTING THE CLOCK AND THE CALENDAR

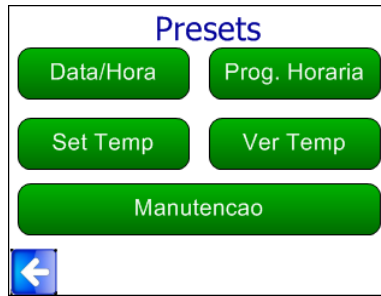
- 1) Touch the Display on [Presets] and Touch [Data/Hora] on the Screen Below.



- 2) Touch the screen parameters and modifies touching [+] or [-] until the requested information is updated. After this procedure touch the left arrow on the bottom-left side and the parameters will be recorded.



- 3) The Display will return to the Screen below. Click on [Set Temp] to set the Working Temperatures.



## SETTING THE WORK TEMPERATURES

1) Touch the screen parameters and modify them by touching [+] or [-] until the intended information is updated. After this procedure, touch the arrow of the bottom-right side to set the parameters of other Stations.



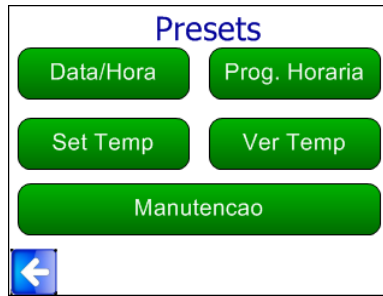
2) Touch the screen parameters and modify them by touching [+] or [-] until the requested information is updated. Click on the arrow of the bottom-left side after this procedure.



3) Click on the left arrow again in the screen below and the Parameters will be recorded.

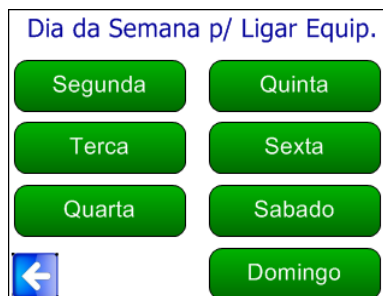


The Display will be taken to the screen that follows below. Click on [Prog. Horária] to set the Daily Work Program Times.

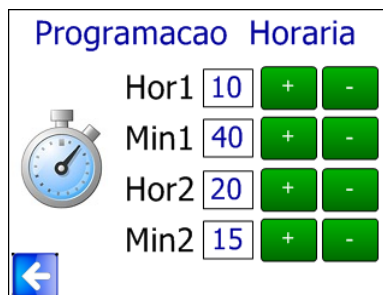


## SETTING THE AUTOMATIC DRIVE PROGRAMMING

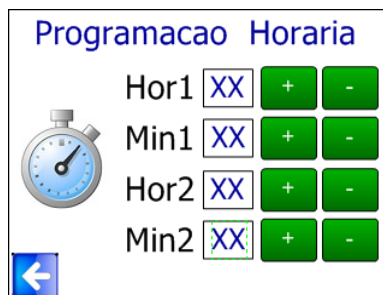
1) Touch the screen parameters and do the Automatic Mode Programming on a chosen day. In this Operation, you will be able to Program the equipment to Power on Automatically. This programming must always be made with an advance of 4 hours before the desired hour so that it will be possible to use the Embedded Central with Melted Paraffins. In this Automatic Mode Programming the Equipment will be in Stand By saving electric power. Up to 2 Automatic Mode Programming may be done per day.



2) Touch the screen parameters and modify them by touching [+] or [-] until the intended information is updated. After this procedure, touch the left arrow below to record the parameters.



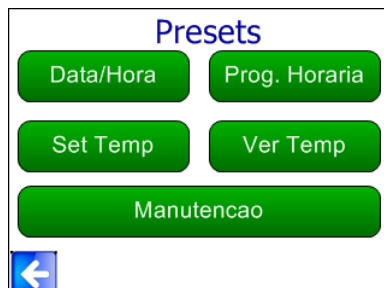
In case of one not wanting to use any automatic programming, touch the Display and modify it by touching [+] or [-] until the screen below is shown.



After this procedure, click on the left arrow below and the parameters will be recorded.

### CHECKING THE CURRENT TEMPERATURES

Touch [Ver Temp.] in the screen below and the current temperatures of Lupetec Embedded Center Module CI 2014 in all sectors will appear.



After this procedure, click on the left arrow below successively and return to the Main Screen.

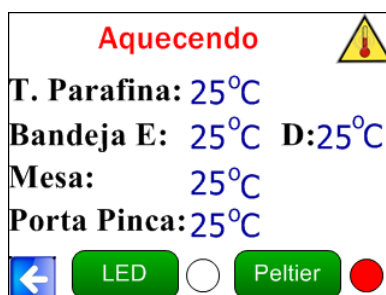


### MAKING THE EQUIPMENT WORK

On the screen below, click on [Manual] and the equipment will initiate the Work Stations heating. If you do not activate this function, the equipment will stay in Stand By without heating the stations.



A Screen will appear showing the station current temperatures.



To return to the Main Screen, click on the left arrow below.

Touch [Peltier] to drive the fast cooling plate.

Touch [LED] to power on the auxiliary lighting.

Touch [Peltier] or [LED] again to turn off these functions.



### SETTING THE PARAFFIN FLOW

Turn the knob clockwise, which is on the equipment nose, to decrease the flow.

Turn the knob counterclockwise, which is on the equipment nose, to increase the flow.

### USING THE MAGNIFYING GLASS

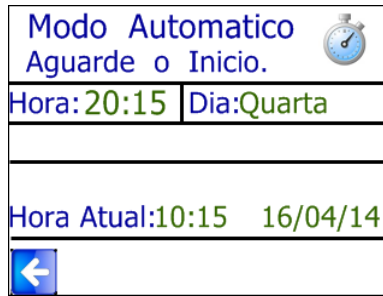
To use the magnifying glass move it downwards.

### STARTING IN AUTOMATIC MODE

In the screen below click on [Auto] display and the equipment will be in Stand By following immediately the first programming after the current time.

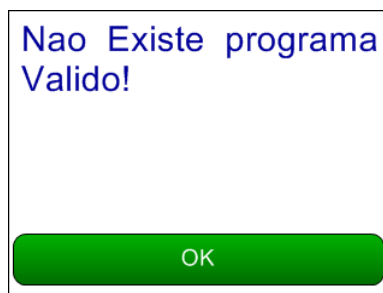






To return to the Main Screen, click on the left arrow on the bottom-left part.

**NOTE: If you click on [Auto] screen and the screen below appears, this means that no Automatic Mode Programming exists. Do the procedure to create the Automatic Programming.**

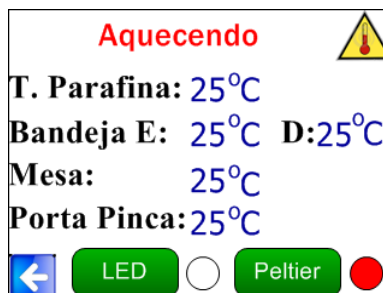


#### END OF WORKING ROUTINE

When the work routine is done, you can keep the equipment operating the following way: Touch Main Screen on Manual and the resistors will keep the working stations warm.



Then, the screen below appears.



If you prefer, when the working routine is finished, you can keep the equipment in Stand By without heating the working stations.



When the working routine is done, if you to prefer, you can leave the Equipment on automatic mode and it will be ready to start the next routine programmed. Touch the [Auto] display **and** the equipment will be in Stand By obeying immediately the first programming after the current time.

**The minimum time for melting the paraffin before the working time is around 4 hours. After checking the paraffin melting, the temperature for the working routine must be set, which may differ depending on the used paraffin and region.**

This Equipment has two outputs in the back where it could be connected to Lupetec Cooled Plate and Lupetec Heating Module, so that they follow the automatic programming of Lupetec Embedding Center. If the user chooses to work this way, the Sub Modules Energy Cables (Cooled Plate and Heated Plate) must be connected in the Central Module Back Cover and the ON/OFF button must be in the ON position. When the Automatic Program enters the Stand By mode, auxiliary equipments will turn off, only turning ON in accordance to the Programming performed in Automatic Mode.

**NOTE: Check if the Sub Modules Power Supply is the same as the Embedded Center one.**

#### 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 tanks can get very hot during the process so, beware of burning.

**The product was designed for using exclusively with water or paraffin!**  
**Risk of fire!**  
**Flammable fuels or substances should not be handled close to the product!**

- The equipment should only be used when you have material inside.
- Minimum volume: 10 mm
- 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.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
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 connected in the power outlet and in the equipment.  Put the key at ON position.
	Check if the power ON/OFF key is on (ON)	Check for power into the outlet.
	Fuse	Remove the fuse of the fuse holder and check if it's not broken or with the filament interrupted. If it is necessary, replace it for similar.
The side tanks do not heat.	Check the previous steps.	Same the steps above.
	Check the controller temperature selection.	Setting the temperature.
	The heating resistor is damaged.	To call the Authorized Service Center.
The paraffin dispenser tank does not heat.	Check the previous steps.	Same as the steps above.
	Check the controller temperature selection.	Set the temperature.
	The heating resistor is damaged.	Call the Authorized Service Center.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
The nozzle does not heat.	Check the previous steps. Check the controller temperature selection. The heating resistor is damaged.	Same as the steps above. Set the temperature. Call the Authorized Service Center.
The Tweezers Holder does not heat.	Check the previous steps. Check the controller temperature selection. The heating resistor is damaged.	Same as the steps above. Set the temperature. Call the Authorized Service Center.
The Center Table does not heat.	Check the previous steps. Check the controller temperature selection. The heating resistor is damaged.	Call the Authorized Service Center.

**8-) WARRANTY:**

- Warranty terms are attached to this manual.

**9-) SYMBOLS:**



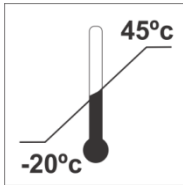
**Sensível ao calor**  
*No heat*



**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.**



*EMBEDDING CENTER CI 2014*

*Voltage:  127 V  220V*

*Power: 350W*

*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*



Voltage:  127 V  220 V

Power: 350 W

Frequency: 50/60HZ

CLASSE 1 EQUIPMENT

Tech. Manager: Luiz Ricardo Martins

CREA-SP: 5060262236

Date of  
manufacture:

Número de Série:

Operation:  
Continuous

IPX0





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*Commercial department +55-11-2738-2445*

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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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