

OPERATING INSTRUCTIONS

Paraffin Wax Embedding Centre MPS/P1



CE

INS1000GB
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1. INTENDED USE

The paraffin wax embedding centre type MPS/P1 is intended for embedding histological tissue specimens in molten paraffin (wax) for use in pathology laboratories. The instrument consists of a heated paraffin container, a dispenser element, heated areas and containers for storage and preparation of moulds and embedding cassettes, a cooling area for fixation of embedded tissue specimens and optionally heated forceps for orientation of the specimen during embedding.

2. SYMBOLS



Dangers, warnings and cautions are marked by this symbol



Special instructions regarding the operation of the instrument are marked by this symbol

3. SAFETY NOTES

SLEE paraffin wax embedding centres are provided with the following safety features:

MPS/P1

Hand heat protectors



The institution which owns the unit and the persons working with the unit, servicing or repairing it have the responsibility for a hazard-free use.



Certain surfaces of the instrument are hot during operation and can cause burns if touched.

4. COMPONENTS

SLEE paraffin wax embedding centres are provided with the following standard components:

	MPS/P1	MPS/P2		
		MPS/P	MPS/W or MPS/WH	MPS/C
Heated paraffin (wax) container	●	●		
Heated dispenser element	●	●		
Heated cassette/mould storage containers	●		●	
Cooled cassette/mould storage area				●
Heated working area	●	●		
Cooled working area (Cooling spot)	●	●		
Magnifying glass	●	●		
Paraffin collection tray	●	●		
Working area illumination (Light)	●	●		
Operation manual	●	●	●	●

5. SPECIFICATIONS

Dimensions [width x depth x height]	450 mm x 575 mm x 295 mm
Weight without accessories	23 kg
Paraffin container	3.3 litres
Heated cassette/mould container	Approx. 80 cassettes Approx. 200 moulds 30 – 80 °C programmable

6. UNPACKING AND INSTALLATION

6.1 UNPACKING THE INSTRUMENT

Remove the upper cover.

Remove the upper supporting foams.

Lift the instrument out of the wooden transportation case.

For repacking use the original cases. Keep the packing material.

Place the instrument onto the selected bench.

6.2 INSTALLATION

The site for installation should meet the following requirements:


- The unit should be positioned onto a plane, vibration-free surface.
- A free ventilation of fresh air from underneath the instrument should be guaranteed.
- The vicinity of the work area must be free of oil and chemical vapours.



7. OPERATION OF MPS/P1

7.1 HEATED PARAFFIN (WAX) CONTAINER

Press ON to start the heating element of the heated paraffin (wax) container.

The instrument will display the current temperature of the heated paraffin (wax) container.

To set a new target temperature, press  to enter the setting mode.

Increase the selected temperature by pressing , decrease the selected temperature by pressing .

The selected value will be stored automatically after 30 seconds.

The display will return to the current temperature of the heated paraffin (wax) container.



For a robust performance of the instrument the flow of molten paraffin is exclusively driven by gravitation. To assure a rapid flow, please refill the paraffin container before it empties completely.


7.2 HEATED CASSETTE/MOULD STORAGE AREA



The heated cassette/mould storage area is controlled by the heating element of the heated working area. For activation and setting of target temperatures, please refer to section 8.3 (HEATED WORKING AREA).

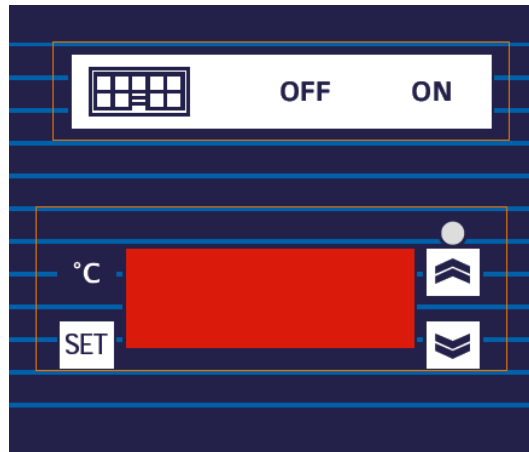
7.3 HEATED WORKING AREA

Press ON to start the heating element of the heated working area.

The instrument will display the current temperature of the heated working area and the heated cassette/mould storage container.

To set a new target temperature, press  to enter the setting mode.

Increase the selected temperature by pressing , decrease the selected temperature by pressing .



The selected value will be stored automatically after 30 seconds.

The display will return to the current temperature of the heated paraffin (wax) container.

Press OFF to stop the heating element of the heated working area.

7.4 COOLED WORKING AREA

Press ON to start the cooling element of the cooled working area.

Press OFF to stop the cooling element of the cooled working area.



If the cooling element is switched on, the inbuilt cooling fan is running. The lower and rear airing slots should never be covered.

7.5 HEATED PARAFFIN DISPENSER

Manual Use

The heated paraffin dispenser is equipped with an activation lever directly behind the dispensing nozzle.

To open the valve and start the flow of molten paraffin, push the lever backwards or sideways.

The valve will automatically close, if the lever is released.



Manual use of paraffin dispenser.

Foot switch Use

The heated paraffin dispenser can also be controlled by a foot switch.

To open the valve and start the flow of molten paraffin, kick the foot switch down.

The valve will automatically close, if the foot switch is released.

7.6 MAGNIFYING GLASS

Each instrument is equipped with a magnifying glass that can easily be turned to the right and left if required.

The magnifying glass will keep its orientation even if turned away temporarily.



Magnifying glass.

7.7 PARAFFIN COLLECTION TRAY

Overflowing paraffin runs into the outlet integrated into the working area and into the paraffin collection tray.

The collection tray should be cleaned every day.

Pull the drawer out of the instrument and empty it.



Paraffin collection tray.

7.8 HEATED FORCEPS [only applicable to instruments equipped with this accessory]

Electrically heated forceps are available as accessory and will be activated by plugging into the connection for heated forceps at the front of the paraffin wax dispenser unit.

The temperature regulation is by means of a control knob next to the connection.





7.9 TIMER [only applicable to instruments equipped with this accessory]


If installed, the timer is located at the rear of the unit.


Setting of Date and Time

Press **MENU** to change to  mode.


Press **OK** and change first value of date by pressing .


Press **OK** to move to next digit and change second value of date by pressing .


Press **OK** to move to next digit and change third value of date by pressing .


Press **OK** to move to next digit and change fourth value of date by pressing .


(in this example 01.02.2000)


Press **OK** to move to next digit and change first value of year by pressing .

Press **OK** to move to next digit and change second value of year by pressing .

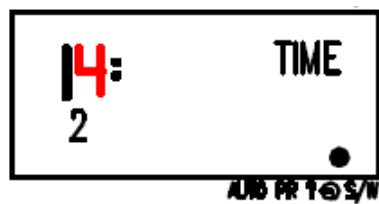
Press **OK** to move to next digit and change first value of time by pressing .

Press **OK** to move to next digit and change second value of time by pressing .

Press **OK** to move to next digit and change third value of time by pressing .

Press **OK** to move to next digit and change fourth value of time by pressing .

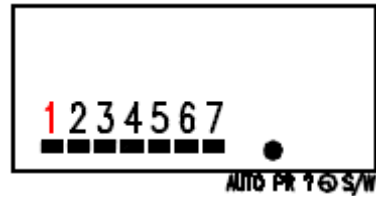
(in this example 14:30 h)



Setting of Programme

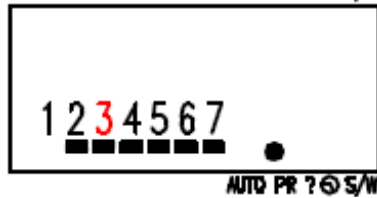
Press **MENU** to change to PR mode.

Press **OK** and activate or deactivate first working day (Monday) by pressing **◆**.

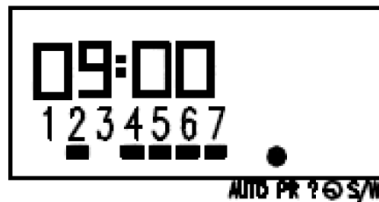


Press **OK** to move to next working day and activate or deactivate by pressing **◆**.

Continue procedure until Sunday (Day 7).



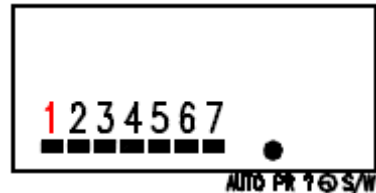
Press **OK** to change activation time by pressing **◆**.



Press **OK** and select AON by pressing **◆**.



Press **OK** and select working days and time for deactivation.



Press **OK** and select AOFF by pressing **◆**.

In this example, the instrument will be activated on Tuesdays and from Wednesday to Sunday at 09:00 AM and will be deactivated on the same days at 19:30 PM.



Press **MENU** to switch to AUTO mode.

The display will show the activation time in form of black bars on top of the display.



8. MAINTENANCE

Besides regular cleaning, the instrument is basically maintenance-free.

For cleaning the unit only use alcoholic media, not acetone or xylene. For the hood it is best to use a commercially available cleaner for plastics. The hood should not come in contact with alcoholic or other solvents.

Never spray or use cleaning medium directly onto operating foils.

Please take note of the safety aspects of the instrument.

Wear protective clothing and disposable gloves according to Good Laboratory Practices.

9. SERVICE

Internal components should only be serviced by technicians authorized by SLEE.

If technical service or spare parts are necessary, please contact your local SLEE Medical distributor. Please have the following information available:

- Complete contact details
- Type of instrument and serial number
- Place of instrument and name of user
- Purpose of service call
- Delivery date of the unit

If it is necessary to return the instrument, it must be cleaned and disinfected before delivery. It must be returned in its original packing.

If the instrument or parts thereof are sent back in a dirty or non-disinfected condition, SLEE reserves the right to return the parts to the debit of the customer.

10. Optional accessories

Heated Forceps

#10196000 (2.5 mm)
#10196001 (1.25 mm)

Timer

#10900009

Cooling plate MPS/C

#10900010

Preheating unit MPS/W

#10180000

Preheating unit MPS/WH (high)

#10185000

Base moulds (stainless steel)

#30030050 7 mm x 7 mm x 5 mm
#30030051 30 mm x 24 mm x 5 mm
#30030052 15 mm x 15 mm x 5 mm
#30030053 24 mm x 24 mm x 5 mm
#30030054 37 mm x 24 mm x 5 mm
#30030055 24 mm x 24 mm x 12 mm

Metal lids for embedding cassettes

#30050100

Paraffin (56 – 58 °C)

#30010000 2 kg (bag)
#30010002 15 kg (bag)

MPS/P1	MPS/P2
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●

11. WARRANTY

SLEE Medical GmbH guarantees that the product delivered has been subjected to a comprehensive quality control procedure, and that the product is faultless and complies with all technical specifications and/or agreed characteristics warranted.

SLEE Medical GmbH guarantees that the instrument is manufactured under an ISO 9001 quality management system.

Unauthorized modification or repair by third party persons will void the warranty.

Only original SLEE spare parts must be used.

Guarantee claims can be put forward only if the instrument is used according to this manual and for the purpose described.

Mistakes and errors which occur because of improper use cannot be accepted.

12. DISPOSAL

The instrument or parts of the instrument must be disposed of according to existing local applicable regulations.

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