pfmmedical

Quality and Experience · *since 1971*

Made in Germany

Operating Manual
pfm Stretching Table 1100

The pfm Stretching Table 1100 is designed instrument for stretching and drying paraffin sections in the histology laboratory. It can be used in routine practice, research and industry.

www.pfmmedical.com

Note

Dear Customer,

Please read this operating manual carefully before using the instrument for the first time and make certain that you are familiar with the method of operation as well as the instrument's controls to ensure that it is used correctly.

All the information in this operating manual applies to the pfm Stretching Table 1100.

Serial number: _____

Please enter the serial number of your instrument here. It can be found on the nameplate.

Part 1 – Safety instructions

Please read this operating manual carefully before working with the pfm Stretching Table 1100. Make certain that you are familiar with the instrument's controls and method of operation. Always observe the following precautions during operation of the instrument. Failure to do so is contrary to the recognised technical regulations and the intended use of the instrument.

In case of infringement, pfm medical gmbh does not accept any form of liability.

1.1 Key to symbols

	Caution! This symbol indicates a possible danger to life and health. Failing to observe these instructions can result in severe health impacts, including life-threatening injuries.
NOTE	Indicates useful information
WARNING	Indicates a dangerous situation
	Manufacturer
	Date of manufacture
	Consult operating manual **PLEASE NOTE** The up-to-date electronic operating manual can be found on our website: http://www.pfmmedical.com/downloads
	In vitro diagnostic (IVD) medical device
	Catalogue number
	Serial number

CE marking

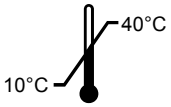
Biohazard warning

Hot surface warning

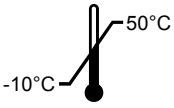
The instrument must not be disposed of in normal domestic waste.
It must be collected separately.

Keep dry

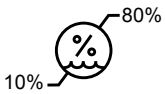
Fragile, handle with care



Permissible temperature range at the place of use
+10°C - +40°C



Permissible temperature range for storage and transportation
-10°C - +50°C



Permissible humidity range for storage and transportation, and at the place of use
10% - 80% (non-condensing)

1.2 Intended purpose

The pfm Stretching Table 1100 is a heated table for stretching and drying paraffin sections of human and animal tissue specimens in the histological laboratory in the fields of medicine, research and industry. It can be used as a diagnostic aid related to an in-vitro examination within the histopathological process and may only be operated by appropriately trained personnel. The product facilitates the preparation of tissue samples which, after further processing, are diagnosed by a pathologist and provide information on the physiological or pathological condition.

1.3 User group/user profile

- The pfm Stretching Table 1100 must only be operated by appropriately trained staff who are familiar with the instrument's method of operation.
- Before using the instrument for the first time, the operating manual must be read so that the user is familiar with the method of operation and the controls. This is essential to ensure proper handling.

NOTE
The operating manual should be accessible to everyone.

1.4 pfm Stretching Table 1100 safety devices

- Over-temperature protection device
- Electrical overload protection device

WARNING
Caution! Protective devices must not be removed from the instrument or modified.
The proper functioning of the protective devices must be checked by the user before starting work.

1.5 Operating the instrument

- Only use suitable accessories and connecting cables recommended/supplied by pfmmedical.
- If the instrument fuse needs to be replaced, the factory-specified parameters must be observed (T 6.3A).
- Observe all warnings.
- Warnings on the instrument must not be removed or obscured.
- The surface of the pfm Stretching Table 1100 must not be damaged or scratched with sharp or pointed objects.
- During operation, the surface of the instrument can be very hot.
- Do not start up the instrument if it is damaged.
- Do not start up the instrument if it has a damaged mains power cable.
- The mains power cable must not come into contact with heated surfaces.
- No corrosive, acidic or alkaline solutions should be used in the vicinity of the instrument, This could cause corrosion and damage the instrument and accessories.
- The instrument must only be opened and repaired by service technicians trained and authorised by pfmmedical.
- For servicing and repair work, the instrument must be switched off and disconnected from the power supply.

1.6 General precautions

Please take special note of the following warnings:

Beware of explosive gases
The instrument must not be used if dangerous gas concentrations could occur in the surrounding area.

Risk of infection
When working with infectious materials, appropriate safety measures must be implemented. The specimens used may potentially be infectious. The general laboratory rules regarding protection against infections must therefore be observed.

Risk of radioactivity
When working with radioactive materials, the radiation protection regulations must be followed. Protective clothing must be worn in accordance with the rules and regulations that apply in your laboratory for handling radioactively contaminated materials. For the disposal of radioactive waste, the applicable regulations will apply in each instance.

Avoiding malfunctions
To avoid malfunctions, the instrument must not be used close to radio transmitters, e.g. mobile phones. If the instrument malfunctions, please switch it off and contact your dealer.

Caution
Before switching the instrument on for the first time, please check that the supply voltage/frequency at the place of use match the specifications on the nameplate.

Protective earthing of the instrument
To avoid the risk of electrocution, the instrument must be properly connected to an earth conductor. The instrument is equipped with a mains power plug with earth conductor (protection class I). It is very important to check that the mains power outlet used is equipped with an earth conductor, and that it complies with the regulations of the International Electrotechnical Commission (IEC).

Risk of chemical substances
Some of the alloys used in the components of this instrument contain small amounts of lead for improved machining. The lead is, however, firmly bound in the metal matrix. When used as intended, the lead in the alloys is not released and does not represent any risk to the user. You can find additional information in the Declaration on the EU Regulation 1907/2006 (REACH) at:
http://www.pfmmedical.com/downloads

Mains voltage precautions
Never remove any part of the housing. The replacement of components and any adjustment or calibration must be carried out by trained service technicians.

Electromagnetic interference
The electromagnetic environment should be assessed before the pfm Stretching Table 1100 is operated. Do not use this instrument near strong sources of electromagnetic radiation (for example, unshielded, intentionally operated high-frequency sources) because these can interfere with the proper operation of the instrument. The pfm Stretching Table 1100 fulfils the requirements of the IEC 61326 standard on immunity and emissions.

WARNING
Caution! Switch off the instrument and disconnect it from the power supply before opening or removing any part of the housing.

WARNING
Caution! Warns of a hot surface. During operation, the surface of the instrument can be very hot!

Part 2 – Introduction

2.1 View of the pfm Stretching Table 1100

1. Protective cover
2. Heating plate
3. Display

2.2 Technical data for the pfm Stretching Table 1100

- **Dimensions overall (W/D/H):** 180 x 386 x 80 mm
- **Dimensions of the heating plate (W/D):** 170 x 300 mm
- **Weight:** 4.0 kg
- **Heating range:** from the ambient temperature up to +75°C
- **Power supply:** 100 - 240 V AC, 50 - 60 Hz
- **Power output:** 100 W
- **Instrument fuse (primary circuit):** T 6.3 A
- **Operating environment altitude:** up to 2,000 m above sea level
- **Pollution degree (according to EN 61010):** II
- **Overvoltage category (according to EN 61010):** II
- **Fluctuations in mains voltage:** ±10% of the mains voltage
- **IP protection class:** IP20

2.3 Scope of delivery

pfm Stretching Table 1100
REF: 042000

Scope of delivery
1 pfm Stretching Table 1100
1 Mains power cable

NOTE
The up-to-date electronic operating manual can be found on our website: http://www.pfmmedical.com/downloads

Part 3 – Operating instructions

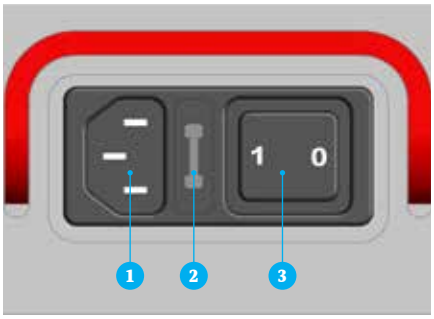
3.1 Transportation, unpacking and setting up the instrument

- Before unpacking the instrument, please check that it is complete and undamaged.
- Disassemble the packaging and remove the instrument.
- Please read the operating manual carefully before using the instrument for the first time.
- The instrument should be placed on a stable, vibration-free table.
- The instrument must be placed on a non-combustible, flat surface.
- Do not store flammable or combustible substances in the immediate vicinity of the instrument.
- The instrument must only be used indoors, and never in locations where there is a risk of explosion.
- Position the instrument so that the power plug is always accessible.
- Room temperature at the installation location of the instrument between +10°C and +40°C.
- Relative humidity at the installation location of the instrument max. 80% (non-condensing).
- Ambient temperature during the transportation and storage of the instrument: between -10° and +50°C.
- Relative humidity during the transportation and storage of the instrument: max. 80% (non-condensing).

The operator is responsible for checking that the instrument is working properly and safely. The operator shall assume responsibility for any use of special equipment and/or materials for operating the instrument.

NOTE
If possible, retain the original packaging for the entire lifetime of the instrument so that you can repackage the instrument correctly if it needs to be sent for servicing.

3.2 Initial operation



1. Power socket
2. Instrument fuse
3. Power switch

- Before switching on the pfm Stretching Table 1100 for the first time, you must make sure that the supply voltage and frequency specified on the nameplate match the mains voltage specifications at the installation location.
- Always connect the instrument to an earthed wall socket.
- Connect the mains power cable with the connection socket on the back of the instrument.
- The instrument socket also contains the fuse holder.
- Now switch on at the power switch on the instrument.
- 1=ON, 0=OFF

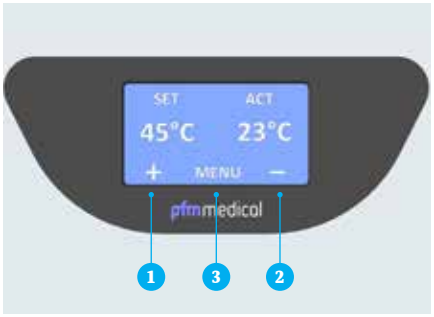
WARNING
Caution! Only use the mains power cable with ferrite core supplied with the instrument.

Caution! Do not use an extension cable.

Caution! If the instrument is not operated with the mains power cable supplied, the user must carry out a safety test with the new mains power cable before using the instrument for the first time.

Caution! If the instrument does not heat up, or heats up too much, it should immediately be taken out of operation. If this occurs, contact a service technician.

3.3 Display



1. Increase of temperature +
2. Lowering of temperature –
3. Settings MENU

WARNING
CAUTION! Do not operate the instrument if the display does not work, shows illogical or incorrect values, or is damaged.

3.4 Temperature setting

When the instrument is switched on, the display shows the **SET TEMPERATURE** and the current **ACTUAL TEMPERATURE**.

By pressing the + / – button, the desired temperature can be selected in steps of 1°C.

Depending on whether the newly set value is higher or lower than the current temperature, a rise or fall to the programmed temperature can be observed on the display. The temperature set will be maintained until the next adjustment is made. The heating range lies between the ambient temperature and +75 °C.

3.5 Language selection

- Press the **MENU** button on the display, and then the **LANGUAGE** button in the next window.
- The current languages are now displayed.
- Press the corresponding button to change the language.
- The screen will automatically return to the initial display.

3.6 Default settings (Reset)

- Press the **INFO** button and the next window will display the **RESET** button.
- Press the **RESET** button, to perform a factory reset. The screen will automatically return to the initial display.
- Pressing the **HOME** button will also take you back to the initial display.
- The display shows the current hardware and software status.

3.7 Malfunctions and their correction

Fault	Possible cause	Remedy
No display after switching on the instrument	Mains cable not correctly connected	Check the mains cable connection
	Mains cable defective	Check the mains cable and replace if necessary
	Instrument fuse in the power socket defective	Check the instrument fuse and replace if necessary
	Display damaged	Check display function and replace if necessary
Display functions faulty	Display surface damaged	Check display function and replace if necessary
Instrument does not heat up	Temperature sensor defective	Check the temperature sensor and replace if necessary
	Internal temperature fuse in the instrument is tripped	Check the temperature fuse and replace if necessary
	Heater defective	Check the heater and replace if necessary
Instrument heats up too much	Temperature sensor defective	Check the temperature sensor and replace if necessary

3.8 Change history

State of revision	Change
Rev.2023-03-13	Design reworked
Rev.2024-01-01	Corporate identity guidelines

Part 4 – Maintenance, cleaning and care

4.1 Maintenance

To ensure that the pfm Stretching Table 1100 functions reliably, routine maintenance should be carried out once a year by a trained service technician authorised by pfmmedical. pfm medical gmbh provides maintenance to ensure that your instrument always remains in perfect condition. Details can be obtained from your sales representative or directly from pfm medical gmbh. We recommend an annual electrical safety inspection.

4.2 Cleaning and care

For the instrument to function reliably, it must be kept clean by the user. Before cleaning, switch off the instrument and remove the mains power plug. Mild household detergents are suitable for cleaning the stretching table. Do not use any aggressive cleaning agents or solvents. Do not allow liquids to penetrate the inside of the instrument.

WARNING
Caution! Before cleaning the pfm Stretching Table 1100, switch it off, let it cool down and remove the mains power plug.

Caution! When handling disinfectants and cleaning agents, always follow the manufacturer's instructions regarding safety, dilution and exposure time.

4.3 Touchscreen/display cleaning and care

The display and touchscreen are made of plastic and should not be touched with hard objects. Do not use any solvents or aggressive cleaning agents for cleaning the display or touchscreen. Do not use glass cleaners or detergent, as they contain soap solutions that may damage the surface. We recommend cleaning the touchscreen without wetting it, preferably with a standard microfibre cloth.

WARNING
Caution! The display should not be sprayed with a cleaner or disinfectant because there is a danger that liquid will get between the films or behind the display, and damage the display.

4.4 Returning the pfm Stretching Table 1100 for repair or maintenance

Repairs and maintenance work are usually carried out on site. If this is not possible for any particular reason, the instrument can be sent to pfm medical gmbh. Before you send an instrument to pmfmedical for a service, it must be suitably cleaned and decontaminated. This also applies to instruments undergoing a service on site. Contaminated instruments pose a potential health hazard for anyone coming into contact with them due to infectious agents, pathogens or medicinal products. The legal requirements for the handling of contaminated instruments are specified in various regulations, including the Occupational Safety and Health Act (ArbSchG), the Biological Agents Ordinance (BioStoffV), the Occupational Safety Act (ASiG) and the Accident Prevention Regulations (UVV). To confirm that the instrument has been decontaminated, please complete the decontamination certificate carefully. You can find the current certificate on our website:
http://www.pfmmedical.com/downloads

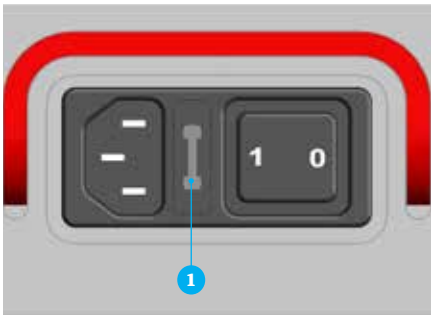
Servicing can only be carried out if a certificate is fully completed in advance and enclosed with the instrument. If it is found that the instrument poses a potential hazard, we reserve the right to return the instrument to the sender immediately at the sender's expense.

WARNING
Caution! Always send the instrument in the original packaging together with the mains cable. Please contact pmfmedical if you no longer have the original packaging.

4.5 Decontamination

For the regular disinfection of the work surfaces and other surfaces of the pfm Stretching Table 1100, we recommend using single-use disinfectant wipes, for example those recommended by the RKI (Robert Koch Institute) or the VAH (Association for Applied Hygiene) list: "Mikrozid AF" and "Bacillol AF".

4.6 Instrument fuse



1 Instrument fuse

- The instrument fuse is located on the rear of the instrument, and is integrated into the power switch.
- To replace the fuse, the instrument must be switched off at the power switch and the mains power plug must be unplugged.
- Open the protective cover with a small flat screwdriver and remove the fuse holder.
- The fuse can then be replaced with a new one.

WARNING
Caution! Switch off the instrument and disconnect it from the power supply before replacing the fuse.

4.7 Warranty

The instrument has been carefully checked and tested by us. However, for a period of one year from the date of delivery, we undertake to remedy any significant defect found in an instrument or spare part supplied to the extent specified below, and without prejudice to any statutory or other contractual claims, even if the defect was not present on delivery to the customer, provided that no unauthorised work has been done on the device by third parties. This warranty does not cover normal wear and tear, nor does it constitute a guarantee of quality or durability of the instrument.

The remedying of defects under this warranty shall be carried out, at our discretion, by the replacement or repair of defective parts. Furthermore, spare parts can be supplied for up to 5 years after delivery of the instrument. Any warranty claims on the part of the customer beyond the above are hereby excluded, without prejudice to any statutory or other contractual claims. This applies in particular to any compensation claims for damage, consequential damage or costs relating to the defect. The transport of the instrument to us and return transport during this period shall be at the customer's risk.

To assert a claim under this warranty, the instrument concerned must be sent to us, at the customer's expense and risk, with a detailed description of the defect, and specifying the purchase order number, delivery note number and invoice number. Our address is: Wankelstrasse 60, 50996 Cologne, Germany.

Claims under this warranty expire 6 months from assertion of the claim, but not before the end of the warranty period. This warranty and any claims, rights and obligations arising therefrom are subject solely to the material law of the Federal Republic of Germany, to the exclusion of Private International Law and the UN Convention on Contracts for the International Sale of Goods. Our standard terms and conditions of supply and payment apply in addition.

All serious incidents that occur in connection with the device must be reported to the manufacturer and the competent authority of the Member State where the user and/or patient are located.

4.8 Declaration of Conformity

The current Declaration of Conformity can be found on our website: http://www.pfmmedical.com/downloads

Part 5 – Disposal of the pfm Stretching Table 1100 when put out of use

Return and disposal of waste electrical equipment
The WEEE directive 2002/96/EC (WEEE = Waste Electrical and Electronic Equipment) was issued in Europe with the aim of reducing the growing quantity of electronic scrap from discarded electrical and electronic devices and disposing of it in an environmentally friendly manner. In Germany, the directive was integrated in the 2005 Electrical and Electronic Equipment Act (ElektroG), which implemented both the WEEE directive and the RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment).

Histotechnology-devices
As a registered manufacturer (WEEE Reg. No. DE85819911), we take back old histological electrical devices, manufactured by pfm medical gmbh, after they have been decommissioned and ensure that they are disposed of properly. For disposal, we work together with the certified specialist disposal company enretec GmbH, whose disposal facility is also registered with the ear foundation.

Arrange the return
To arrange for the return of your electrical device, please proceed as follows:
Contact us to arrange the return

- by phone: +49 2236 9641-0
- by e-mail: service[at]pfmmedical.com
- by mail: pfm medical gmbh, Abteilung Histotechnology, Wankelstraße 60, 50996 Köln, Germany

Prepare the device for transport
Please use only the original packaging and instruct a carrier of your choice to return the device to the following address:

pfm medical gmbh
Abteilung Histotechnology
Wankelstraße 60
50996 Köln
Germany

Costs
The costs of disposal are borne by us as the manufacturer. Unless otherwise agreed, the transport and packaging costs are to be covered by the owner/user of the device.

WARNING
Caution! If the device has come into contact with infectious material and cannot be disinfected or decontaminated, we cannot accept it for disposal.

For your notes

Contact

Do you have any questions?
Our Customer Solutions Team will be happy to advise you.

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