

Tissue Flotation Bath

TFB 35

Instruction Manual



IMPORTANT: Read this manual before starting the instrument

Rev. 04 (05/2007)

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Konformitätserklärung

Certificate of Conformity
Attestation de Conformité



Type of instrument:
Model:
Serial No.:

Tissue Flotation Bath
TFB 35

We do hereby certify that the above mentioned product meets the requirements set forth in the CE Guidelines indicated below including all changes and addendums to date thereto. The above mentioned product has been controlled by an authorized test center and meets the following standards and guidelines:

EU Directive 89/336/EEC EMC
EU Directive 73/23/EEC Low Voltage
DIN EN ISO 9001 : 2000
VDE 701



Burgdorf, 20.05.2007

M. Ott – Managing Director





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1.1 Introduction

With the purchase of the Tissue Flotation Bath TFB 35 you decided for a high quality product of medite Medizintechnik GmbH. These instructions shall help you to use the instrument. Please read it thoroughly and follow the advices.



If you see this symbol in the instruction manual, it indicates dangers (including warnings)

1.2 Intended use

Unauthorized changes and technical modifications of the instruments are not permitted for safety reasons. For the exchange of defective parts only original medite spare parts have to be used.

The conditions for operation, maintenance and service mentioned in this instruction manual have to be strictly observed.

1.3 Authorized operator

The TFB 35 must be used by those persons only, who have been authorized by the owner. In his working area, the operator is responsible with regard to third persons. The owner must give the operator access to the instruction manual and make sure that the operator has read and understood its contents.



1.4 Safety on site

The TFB 35 must be placed on an even and solid basis. An overturning instrument means an accident risk.



Any failure to comply with the approved technical regulations for the operation of technical equipment or any non-intended use of the instrument will void the manufacturer's liability.

2 Transport / Installation

Model	Dimensions/Weight/Power supply	Art. No.
<p>TFB 35.000 TFB 35.100</p> 	<p>Dimensions (overall, W/D/H): 430 x 300 x 90 mm</p> <p>Glass tray (W/D/H): 270 x 165 x 50 mm</p> <p>Weight: 7 kg</p> <p>Temperature control from + 30°C to + 55°C</p> <p>Power supply: 230 V / 50 Hz / 250 VA or 115 V / 60 Hz / 250 VA</p>	<p>01-3500-00 01-3510-00</p>
<p>TFB 35.500 TFB 35.600</p> 	<p>TFB 35 with extra large glass tray:</p> <p>Dimensions (overall, W/D/H): 430 x 300 x 90 mm</p> <p>Glass tray (W/D/H): 270 x 165 x 80 mm</p> <p>Weight: 7 kg</p> <p>Temperature control from + 30°C to + 55°C</p> <p>Power supply: 230 V / 50 Hz / 400 VA or 115 V / 60 Hz / 400 VA</p>	<p>01-3550-00 01-3560-00</p>

2.2 Transport/ Storage

The Tissue Flotation Bath TFB 35 is delivered in a protecting box. Please move it only upright and avoid shock.

2.3 Unpacking

Put the instrument on an even, solid surface and remove the protecting box and plastic wrap. If possible, keep the packing material to avoid damages in case of a later transport of the unit. Check whether the equipment is complete. The TFB 35 is supplied with one power cord and one instruction manual.

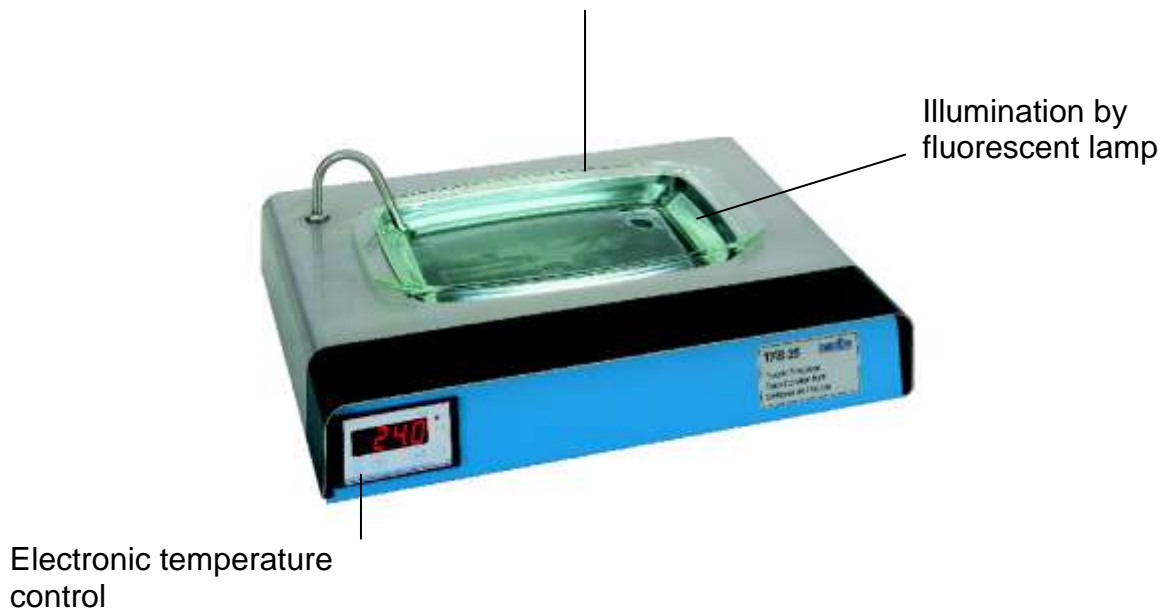
Before starting the instrument, please make sure that your mains voltage corresponds to the value indicated on the instrument (example: for an instrument requiring 240 Volts, 200 - 240 Volts should be available; for a 115 Volts instrument, there should be 100 - 125 Volts.) The instrument is supplied ready to use. For connection to mains the included power cord must be used. It must be connected to a socket with intact ground wire.



Furthermore pay attention that no inflammable objects are in the heating area of the instrument

Operating conditions:

- The operation is only allowed in closed rooms
- Laboratory bench free of vibrations and strong enough for the instrument's weight
- Environmental temperature from + 15°C to + 45°C
- (without large variation in temperature)
- At maximum 80% relative humidity of air, not condensing
- The instrument must not be exposed directly to the sun
- Guaranteeing a sufficient air circulation for cooling, the instrument needs enough space (minimum 15cm) to all sides




3.1 Switching on


Press the mains switch at the rear of the instrument.




The unit is now in standby mode, which is indicated by the message OFF on the display of the controller.

Press the ON/OFF key  on the controller keyboard and the display shows the actual temperature of the stretching table.

Now the unit starts heating up until the temperature adjusted at the temperature controller is achieved.

The heating process is indicated by the LED .

Illumination of the warning signal  means, the temperature of the hot surface passed 45°C (113°F) and there is a burn risk.




The instrument can be switched on by pressing the power switch to position "I" at the back of the instrument. The illuminated switch lightens up, indicating that the instrument is ready to use.

The temperature of the working plate is infinitely variable in 1°C steps between +30°C and 90° , respectively

The temperature is regulated and indicated by the electronic temperature controller on the front panel.







Buttons:

	SET Press the button to switch into the modus „Change of the set temperature“
	UP Press the button after the „SET-Button“ to increase the set temperature.
	DOWN Press the button after the „SET-button“ to lower the set temperature.

In the normal mode of the instrument, the actual temperature of the working surface will be shown permanently. The digital display shows the set temperature during the setting.

Setting of the set temperature:

1. Press  to switch into the modus „change of the set temperature“.
2. Press „UP“  or „DOWN“  to change the set temperature.
3. Press  to leave the modus „change of the set temperature“.

The modus „change of the set temperarue“ will be closed after 10 seconds automatically.

4.1 Change of fuses



CAUTION! FIRST PULL OUT THE MAINS PLUG !

In case of a failure first check the fuses in the mains socket at the back of the instrument and change them if necessary.



Fuse Holder

In case of any other defect please contact the service department. Take out the fuse socket by means of a screw-driver. Bend open the tongue. Take the fuse holder out of the socket.

4.2 Error messages of the controller

Indication	Cause	Measures
F1L	Sensor error, short circuit	call service engineer
F1H	Sensor error, broken sensor	call service engineer
F3L	Limiting value alarm	call service engineer
F3H	Limiting value alarm	call service engineer
-----	Key bolting device actively	call service engineer
Flashing announcement	Temperature alert	call service engineer
EP	lost data in the parameter memory	call service engineer

These errors must be corrected by an authorized service engineer only!

Never remove any parts of the casing while the instrument is on power. The exchange of defective parts (except as indicated) and other intervention may be made by authorized service engineers only.

5 Inserting and removing the glass tray

Lift the temperature sensor up to its highest position and turn it 45° counter-clockwise. Remove the tray. In order to insert the tray proceed in opposite order. Turn back the temperature sensor 45° in opposite direction and push it down. The tip of the temperature sensor must be at least 15 mm below the water level. Otherwise a reliable temperature regulation is not possible.

6 Exchanging the neon tube

Pull out the mains plug. Remove the glass tray. Turn the instrument upside down. Remove the four screws on the bottom and lift up the lower casing. Exchange the neon tube but please take care to choose the same type. For re-assembling the instrument proceed in opposite order.

7 Cleaning

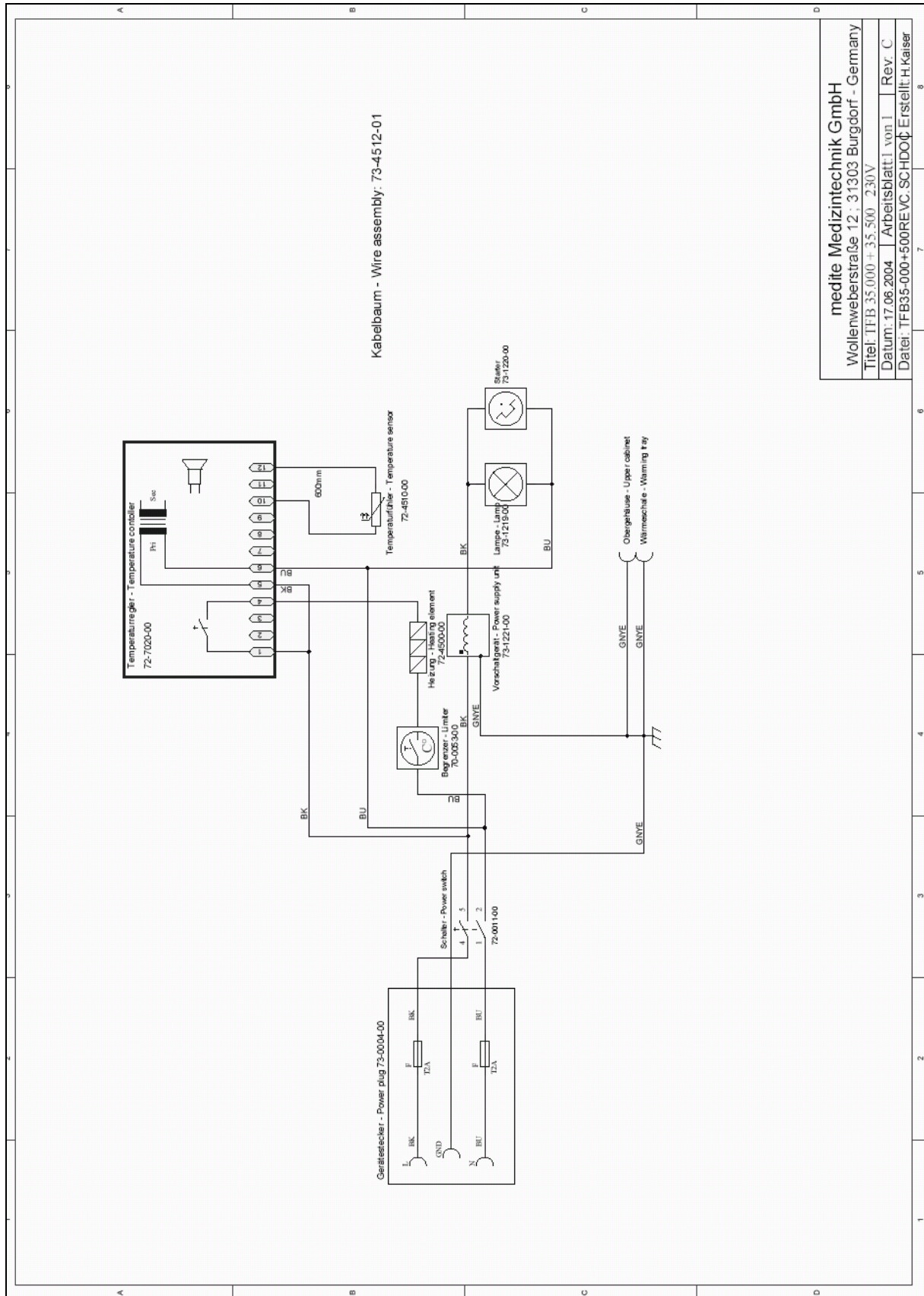


CAUTION: Before dismantling the fuses pull out the mains plug!

The glass tray and the inner surfaces may be cleaned with any non-scratching household cleaner. For safety reasons first pull out the mains plug.

8 Putting out of operation

After end of the total period of use please deliver the equipment to a regular disposal facility. The company medite as manufacturer is also prepared to take back the equipment for disposal against payment for the disposal fee.



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e. g. paraffin embedding system TES 99

Cooling Unit

TES 99.410

Width : 500 mm
 Depth : 570 mm
 Height : 300 mm
 Cooling plate : 500 x 260 mm
 Temperature : adjustable from +15° C to -15° C
 Weight : 25 kg
 Voltage : 230V / 50Hz / 320VA



TES 99.420

Width : 360 mm
 Depth : 570 mm
 Height : 300 mm
 Cooling plate : 360 x 260 mm
 Temperature : adjustable from +15° C to -10° C
 Weight : 20 kg
 Voltage : 230V / 50Hz / 150VA



TES 99.430

Width : 360 mm
 Depth : 570 mm
 Height : 300 mm
 Cooling plate : 210 x 260 mm
 Temperature : adjustable from +15° C to -10° C
 Weight : 20 kg
 Voltage : 230V / 50Hz / 150VA



Dispenser Unit TES 99.200

Width : 360 mm
 Depth : 570 mm
 Height : 300 mm
 Working plate : 360 x 245 mm
 Temperature : adjustable from +30° C to +70° C
 Capacity of paraffin tank : 3,5 litres
 Cold point : -5° C 40 mm Ø
 Heating for 6 forceps
 Weight : 22 kg
 Voltage : 230V / 50Hz / 350VA



Thermal Unit TES 99.600

Width : 360 mm
 Depth : 570 mm
 Height : 300 mm
 Preheating : 305 x 205 mm
 Warming tray : 295 x 235 mm
 Weight : 15 kg
 Voltage : 230V / 50Hz / 750VA

