Tissue Cool Plate

COP 30

Instruction Manual

IMPORTANT: Please read this manual before starting the cooling machine !

Rev. 01 (06/2010)

Konformitätserklärung

Certificate of Conformity

Attestation de Conformité

CE

Type of instrument: **Tissue Cool Plate**
Model: **COP 30**
Serial No.:

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 2006/42/EEC	**Machinery**
EU Directive 2004/108/EEC	**EMC**
EU Directive 2006/95/EEC	**Low Voltage**
DIN EN ISO 9001	
VDE 701	

Burgdorf, 20.05.2007

M. Ott – Managing Director


ZERTIFIKAT

DQS GmbH

medite

Gesellschaft für Medizintechnik mbH

Qualitätsmanagementsystem

DIN EN ISO 9001 : 2000


IQNet

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

medite

Gesellschaft für Medizintechnik mbH

Quality Management System.

ISO 9001 : 2000

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Contents

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1 Safety

1.1 Introduction

With the purchase of the Tissue Cool Plate COP 30 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

The COP 30 is to be used for the embedding of tissue specimens in histology, pathology and cytology laboratories. It must not be used for the processing of food.

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 COP 30 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 COP 30 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 the manufacturer's liability.

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2 Transport/Installation

2.1 Technical data

Tissue Cool Plate COP 30

Width :	440 mm
Depth :	600 mm
Height :	240 mm
Cold Plate :	300 x 440 mm
Temperature :	from +15° C to -15° C
Weight :	26 kg
Power Supply :	230V / 50Hz / 300VA
	115V / 60Hz / 300VA
Refrigeration gaz:	R134 A

2.2 Transport/ Storage

The cool plate COP 30 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 cool plate COP 30 is supplied with one power cord and one instruction manual.

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2.4 Installation

CAUTION !

Before starting the cool unit after transport, the instrument must be in working position on site for about 1 hour to avoid damage of the compressor by irregular distribution of the refrigeration gas / lubricant.

Before starting the instrument, please make sure that your mains voltage corresponds to the value indicated on the instrument (example: for an istrument 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.

The minimum distance of the instrument back to the wall or other instruments should at **least be 10 cm** to guarantee a sufficient ventilation. Furthermore pay attention that no inflammable objects are in the area heated by the instrument.

Do not place any inflammable or combustible material near the instrument

Operation conditions:

- the instrument must be used in closed rooms, only
- ambient temperature + 15°C to + 40°C (without considerable variations)
- vibration free, solid table adquate to the weight of the instrument
- relative humidity maximum 80%, non-condensing
- the instrument must not be exposed to direct sunlight

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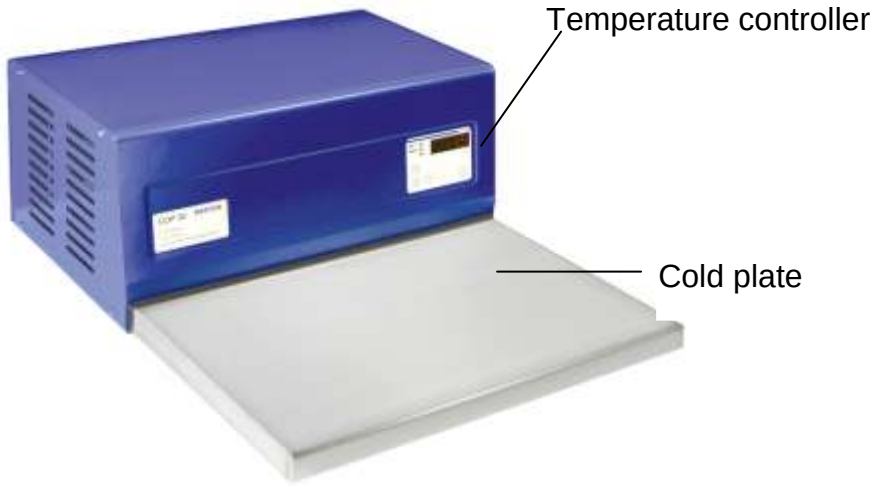
3 Operation



3.1 Switch the unit on

Press the mains switch at the rear of the instrument.

The unit is now in standby mode, which is indicated by an illuminated dot in the display of the controller.

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

Now the cooling down to the temperature adjusted by the controller starts.

The operation status of the cool unit is indicated by illumination of this LED 

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

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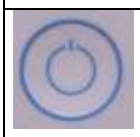
3.2 Adjust the temperature controller

Features

	**Key 1: UP** Press this key in combination with the key „SET“ to increase the temperature value.
	**Key 2: DOWN** Press this key in combination with the key „SET“ to decrease the temperature value.
	**Key 3: SET** Press this key in combination with the key „UP“ or „DOWN“ to change the desired temperature.
	**Key 4: Stand-by** Press this key to switch the instrument on or off, respectively (Stand-by mode).

Set the temperature

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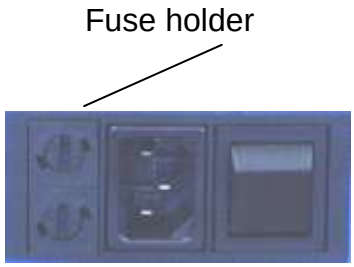
4 Errors

4.1 Change of fuses

In case of failure of the instrument check the fuses in the fuse holder integrated in the instrument socket at the rear. Proceed as follows: pull out the mains plug, using a screw driver the fuse holder can be opened easily and the fuses can be changed.

Caution: first pull out the mains plug !



In case of any other defect please contact the service department

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
F2L	Sensor error, short circuit	call service engineer
F2H	Sensor error, broken sensor	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 fuses) and other intervention may be made by authorized service engineers only.

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5 Cleaning / Maintenance

The surfaces of the Cool Plate COP 30 can be cleaned with commercial, non scratching detergents. For safety reasons the mains plug must be pulled before cleaning the instrument.

Maintenance of the instrument includes the cleaning of the ventilation slots approximately once a year to make sure that the chamber is continuously ventilated and no overheating may occur.

6 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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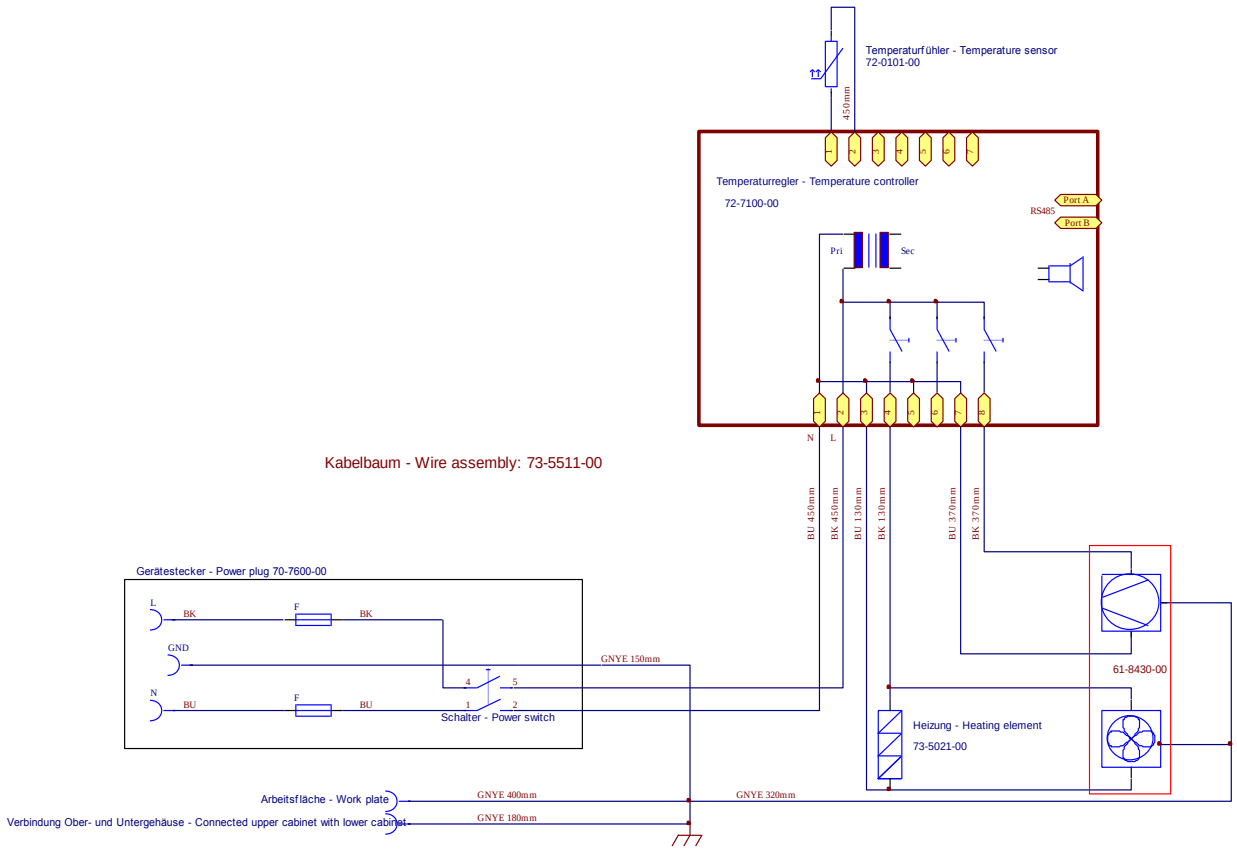

BK - schwarz - black
BN - braun - brown
RD - rot - red
OG - orange - orange
YE - gelb - yellow
GN - grün - green
BU - blau - blue
VT - violett - violet
GY - grau - gray
WH - weiß - white

medite Medizintechnik GmbH			
Wollenweberstraße 12 ; 31303 Burgdorf - Germany			
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Datei: COP30.SCHDOC		Erstellt: H.Kaiser	

medite – Supplier of complete systems for histology-cytology-pathology

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 99.250

Width :	360 mm
Depth :	570 mm
Height :	300 mm
Working plate :	360 x 245 mm
Temperature :	adjustable fom + 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

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