

CLEO™ Tube Heater

User Manual

REF CL0200



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GENERAL INFORMATION

Please carefully compare the contents of this delivery with the enclosed delivery note, the package leaflet, or the invoice. We recommend that you keep a copy of this document together with the instructions so that you can quickly access information about the date and scope of delivery in case of future queries, re-orders, or service work.

Please be sure to remove all small parts from the packaging material.

We wish to inform you that our devices are adjusted at the factory and can be used immediately after installation.

Before using the CLEO™ Tube Heater for the first time, please read the user manual carefully. We recommend that it always be kept with the CLEO™ Tube Heater.

IMPORTANT INFORMATION

Before using the CLEO™ Tube Heater, it is important to read this user manual to familiarize yourself with the instrument. Follow all instructions to ensure proper operation of the CLEO™ Tube Heater. Do not use any consumables, accessories, or external equipment other than that specified. Safety warnings must be adhered to at all times to avoid the risk of personal injury and/or damage to the instrument. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired. The advice given in this manual is intended for supplement, not for superseding the normal safety requirements in the user's country.

INTENDED USE

The CLEO™ Tube Heater is a controlled temperature heat block intended to be used for the heat lysis (95°C) step of nucleic acids extracted samples with the CLEO™ ONE test.

Please read this manual carefully prior to operation. Any attempt to use this instrument that is not in accordance with the manual may cause harm or injury to the user.

INSTALLATION

Upon unpacking the CLEO™ Tube Heater, inspect for damages. Shipping damage is the responsibility of the carrier. Inspect that the following are present: User manual, Power adapter, Power cable, CLEO™ Tube Heater device.

Select a location that is dry and not subject to drafts or moving air from heating or air conditioning vents, or air is blown by other equipment. Place the unit on a flat, preferably non-flammable surface. Allow sufficient room around the unit for access and cooling.

CLEO™ Tube Heater Components

Each CLEO™ Tube Heater is composed of the following components:

Component Name	Quantity
CLEO™ Tube Heater	1
Power Adaptor	1
Power cable	1
User Manual	1



CLEO™ Tube Heater



Power Adaptor



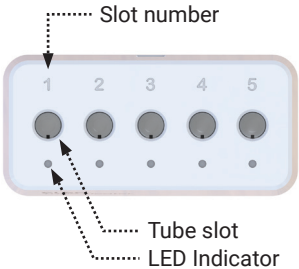
Power cable



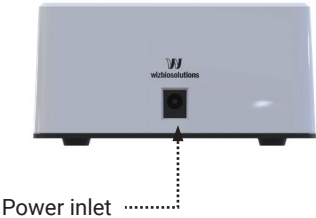
User Manual

CLEO™ Tube Heater Overview

Top view



Back view



SPECIFICATIONS

- Model number CL0200
- Input power DC 12V, 5A
- Max. power 60 W
- Operating environment Indoor Use Only
- Operating temperature range 59°F - 86°F (15°C to 30°C)
- Storage temperature range 39.2°F - 95°F (4°C to 35°C)
- Operating humidity range 20% - 80%
- Storage humidity range 20% - 80%
- Dimensions (W×D×H) 115×60×55 mm
- Net weight 183 g

OPERATIONS

1. Place the CLEO™ tube heater on a sturdy, level surface in a safe, dry location.
2. Plug the power cable into a grounded AC outlet of the appropriate voltage (100V - 240V).
3. When the device is ready, the LED indicator lights up **RED**.
4. Insert the CLEO™ ONE sample tube into the tube slot and the LED will **flash RED**.
5. **RED** turns **GREEN** after 5 minutes. Sample lysis is complete, take out the sample tube from the tube slot.
6. Use the sample tube immediately for CLEO™ ONE testing.

Device Safety Precautions



Read this manual carefully before using the device and follow all recommended safety precautions to avoid personal injury or damage to the device.

Check the rated voltage before use.

Do not insert anything other than permitted test tubes into the device.

Keep the device dry, dust free, and well-ventilated on all sides. Do not place near heat sources.

Unplug the device before cleaning.

Do not force the device to open or attempt repairs. If you have any questions, please contact customer support.

When the device is not in use, turn it off by unplugging it from the wall outlet.

When not in use for a long period of time, cover the device with a cloth to protect it from dust.

Cleaning & Maintenance



Power off the device before cleaning. Do not use or fill wells with caustic cleaning solutions.














If a foreign object enters the test tube slot, gently wipe it with a cotton swab moistened with alcohol. Then open the device cover and let it dry completely before use.

Never turn over if foreign objects get inside. It may cause equipment failure.

Troubleshooting

Error	Comments and suggestions
Device does not power on (no LEDs are lit)	Check the following connections: <ul style="list-style-type: none">• Device and power adapter• A/C adapter to outlet <u>If problem persists, contact Technical Support.</u>
A sample tube is inserted into the tube slot, but the LED indicator does not change to flash red.	Unplug and reconnect the device's power adapter, then try inserting the sample tube. <u>If problem persists, contact Technical Support.</u>
When the LED does not turn green and continues to flash-red after 5 minutes have elapsed since the sample tube was inserted into the tube slot.	Unplug and reconnect the device's power adapter, then try inserting the sample tube. <u>If problem persists, contact Technical Support.</u>

SYMBOL GLOSSARY

	Catalogue number		Manufacturer
	Serial number		Manufactured date
	ATTENTION: Hot surface		Instructions for use
	CAUTION		Kept in dry conditions.
	Fragile and shall be handled with care.		Temperature limit
	Do not use if package is damaged		Waste electrical and electronic equipment
	Restriction of Hazardous Substances in Electrical and Electronic Equipment		

ORDERING INFORMATION

Product	Cat No.
CLEO™ Tube Heater	CL0200

CLEO™ Tube Heater



Technical Support



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