

Lab Connections

YOUR CONNECTION FOR QUALITY SCIENTIFIC EDUCATIONAL LABORATORY EQUIPMENT

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WARNING: ADULT SUPERVISION REQUIRED. PRODUCT IS NOT A TOY. THEY ARE FOR EDUCATIONAL / LABORATORY USE ONLY. THEY ARE NOT FOR USE BY CHILDREN 12 & UNDER.

Heating Mantle



NEVER TO BE OPERATED WITHOUT A CONTAINER WITHOUT LAGERS

Thank you for purchasing our product. This unit has been tested for functionality without heating our customers.

This equipment is designed for heating liquids in various laboratory or scientific. This device is not suitable for using in industrial settings.

In order to provide you with a quality product, this unit has been tested for functionality. The description of the heating mantle of this product is due to the heating unit is not made for constant.

Heating mantle can be connected to without any container in the unit without liquid. This unit is made up. This unit could make internal heat out, which will not be considered as a point for return or replacement.

This unit is designed to function safely when used normally and operated in accordance with guidelines in this manual.

Safety Instructions & Precautions

Connect the unit to an sufficient power supply to ensure safety of machine and equipment, connect the power as the machine requires.

Check that the electric wiring is adequate for the equipment features.

This unit may not be used in experiments containing materials which may be inflammable, explosive, corrosive, or poisonous.

Make sure the unit is fixed place on a flat surface.

While working, always wear appropriate safety gear (goggles, gloves) to avoid hot liquid.

- a. Heating and suspension of liquids
- b. Release of heat of combustion gases

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- Always follow the safety procedures of your company in order to ensure the health and well-being of the operator.
- In some cases, the heated product may be spilled on the outside of the flask, take precaution.
- Take special care with the heater cartridge because it may reach temperatures of up to 500°C, causing severe burning when touched.
- Take special care with the vessel/flask because it may reach high temperatures causing severe burning when touched. Handle with care.
- This equipment is not explosion proof, keep it far away from substances with low explosion points.
- It is not recommended to leave this equipment unattended while heating.

- Set up the instrument in a spacious area on a stable, clean, non-slip, dry and fireproof surface. Do not operate the instrument in explosive atmospheres, with explosive substances, or under water.
- Set up the instrument in a way that it does not obstruct disconnecting the power supply in case of an emergency.
- Temperature must always be set lower than the boiling or combustion point of the media used.

Reasons of hazards due to:

- Flammable material or media with a low boiling temperature
- Overfilling of media
- Media container

Use only closed vessels when processing inflammable materials.

- Check the instrument and accessories before using for storage and then you use them. Do not use damaged components.
- The instrument can only be disconnected from the main power supply by pulling out the main plug or connector plug.
- The voltage stated on the label must correspond to the main power supply.
- Ensure that the main power supply cable does not touch the heating base plate. Do not cover the device.

Proper Usage

- **Note:** The instructions in this section are intended to prevent the unit from being damaged, as well as to prevent damage to a release and not complying with these instructions. This is only an indicative set of instructions, please follow all general laboratory procedures.
- Use a clean and dry glass flask capable of withstanding strong temperature variations. Place the product inside the flask which, in turn, should be placed on the unit, taking care that the flask sits stably on the base.

- When the equipment is ready to use adjust the heat to the desired temperature.
- Never submerge the equipment in fluids.
- Never turn on the equipment without a fluid containing liquid.
- Do not place aluminum foil or any other element between the heater cartridge and the fluid.
- Each module is designed for a specific fluid use. Do not use fluids or vessels that are inappropriate to your model.
- Never operate the equipment in alcohol or in non-ventilated rooms.
- Do not use this equipment as a water bath.
- Insert syringe into the heater cartridge.

Inspections

- Upon first opening, carefully inspect the unit and check for any physical damages which may have arisen during transport. If you see damage, please contact for technical support.
- Note: If there is any apparent damage to the machine, do not plug it in, do not attempt to use machine.

Contents

- Heat Unit - 1 Piece
- Power Cable - 1 Piece
- Manual - 1 Piece

First Use

- Proceed to unpacking the contents, inspect the unit, and account for all contents.
- Remove a clean, dry, and non-flammable environment.
- Check 20 psi on each side of the equipment is installed a safety valve.
- Make sure the required operating voltage and power supply voltage match.
- Ensure the unit is installed properly.
- Ensure power on unit is OFF when being plugged in.
- For effective operation please make sure unit is plugged in and then powered on by the switch on the back.
- Ensure there is a vessel containing liquid in the unit to be heated.

Troubleshooting

Instrument will not power on.

1. Check whether the power cable is securely plugged in.
2. Check whether the fuse is broken or loose.

Storage and Transport

Store the unit in a clean, dry, well-ventilated room without a flow of any corrosive gas.

Avoid liquids and keep unit out of rain.

Maintenance

This unit does not require corrective maintenance on a regular basis.

Only clean the unit when it is disconnected from the power supply and is completely cool.

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