



## CONTROLLER

### TECHNICAL DOCUMENT



CE CERTIFICATION



The controller is used with our "MICROBIO" and "TECHNIBEC" units. It stabilizes the temperature required for the experiment in progress.

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EU DECLARATION OF CONFORMITY

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1. REGULATEUR
2. Name and address of the manufacturer : **K-FACTORY**  
3 rue Denis Papin – 14840 – Démouville
3. This declaration of conformity is issued under the sole responsibility of K-FACTORY.
- 4.



5. The object of the declaration described in point 4 is in conformity with the relevant Union harmonisation legislation :
  - Directive 2011/65/UE (RoHS)
  - Directive 2014/35/UE (LVD)
  - Directive 2014/30/UE (EMC)
6. References to the relevant harmonised standards used or references to the order technical specifications in relation to which conformity is declared :
  - Reference of standard like EN 62321-1
  - Reference of standard like EN 61010-1:2010
  - Reference of standard like EN 61326-1:2013
7. Démouville, le 01/03/2023

## 1. SAFETY INFORMATION

### WARNING

- Electrical control device. For use in dry rooms only.
- Handle with dry hands.
- Connection to controller only for "TECHNIBEC" and "MICROBIO" devices produced by K-FACTORY.
- Do not cover, risk of overheating.
- Take care not to cover the device, as it cools with the ambient air.
- Do not remove rivets from the metal casing.

## 2. COMMISSIONING AND INSTALLATION

The device has a Class II installation category according to protection against electric shock.

Environmental conditions:

- Indoor use only
- Temperature from + 5°C to + 40°C
- Max. relative humidity : 80%

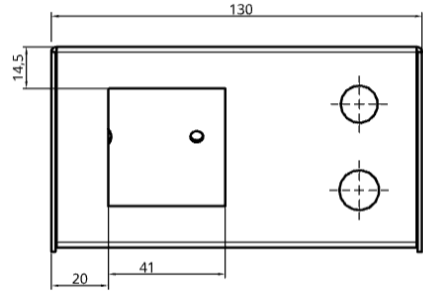
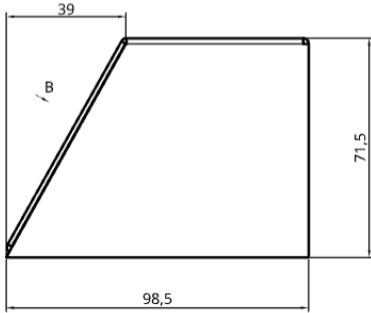
Mains connection in compliance with standard NF C 15-100. This recommends the use of a 30 mA high-sensitivity differential circuit breaker.

Operating voltage : 230V 50-60Hz MONOPHASE

Maximum power: 700 W

### 3. TECHNICAL CHARACTERISTICS

WEIGHT	0.865 KG
DIMENSIONS (mm)	See below
POWER	700 W
POWER SUPPLY	230 V 50 Hz
RAPID FUSE PROTECTION	5 A
POWER ON INDICATOR	red
TEMPERATURE INDICATOR	green
TEMPERATURE ADJUSTABLE BY 7 INCREMENTS	
Level 1: 230 V – 0.4 A	
Level 2: 230 V – 0.9 A	
Level 3: 230 V – 1.3 A	
Level 4: 230 V – 1.73 A	
Level 5: 230 V – 2.17 A	
Level 6: 230 V – 2.6 A	
Level 7: 230 V – 3 A	



millimeter

Maximum use room temperature : 40°C

Protection from overheating

----- **12 month warranty** -----

## 4. INSTRUCTIONS

**When starting up for the first time, or after a long period of storage, we recommend that you gradually warm up the device to eliminate any storage moisture and prevent the differential circuit breaker from tripping.**

- Place the appliance on a flat, stable surface.
- Connect a MICROBIO or TECHNIBEC to the controller.
- Connect the controller to a 230 V earthed mains socket.
- Turn the control knob to the required temperature (0 to 7).

The **red** LED lights up as soon as the power is switched on. The appliance is now in operation. **The protective casing always remains cold.**

The **green** temperature light stays on until the desired temperature is reached, then goes off (except when set to **MAX**).

To switch off the appliance: turn the control knob back to O. The **red** light will go out. The appliance is now completely switched off.



## Example of use of the controller:



The K-FACTORY controller is equipped with a manual voltage controller. The output voltage is 230 V, and the amperage rise is linear.

This feature enables the connected devices to gradually increase in power and therefore in heat. This allows the operator to choose the right heating power for the job.

## 5. TROUBLESHOOTING

If the **red** power light does not come on :

- a) Set the control knob to O
- b) Disconnect from the mains
- c) Turn the device over
- d) Change the fuse

### REPLACING THE FUSE

1. The fuse must be replaced only with the device disconnected from its power source, and only by a competent electrician under the direction of the person in charge.
2. Remove the screw holding the fuse.
3. Remove and replace the fuse with an approved type F.5A.H250V fuse.
4. Reinsert the fuse, then close the flap and secure it.

If the appliance still does not work, please contact us.

**Please note that any use of the appliance that does not comply with the manufacturer's instructions may compromise the safety of the controller.**