



# Biocheck-in

Assembly Manual



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# Introduction

## 1.1 Safety Precautions

Read all instructions before operating the device.

Keep this manual for future use.

The instructions for use must be accessible to all users. All information contained therein must be observed.

## 1.2 Warnings

Do not place the Biocheck-in in an unstable location or with a very uneven floor.

Do not expose the biocheck-in to rain or to extreme weather conditions.

We recommend placing the device away from direct sunlight.

Place the Biocheck-in on a levelled surface, without irregularities under the base.

Educate users and maintenance about the dangers arising from non-compliance with procedures.

In the event that the device is used for purposes other than those specified, it leaves to ensure its correct operation!

## 1.3 Handling

Do not pull or push the Biocheck-in.

Do not attempt to open the door without the key.

Do not touch the front panel with sharp objects, you may scratch and/or damage visibility.

Do not cause a strong impact or pressure on the device body, you may cause internal damages.

This object is not designed to be used by children without supervision.

Avoid having direct contact with the sensors. If there is a need to clean, perform cleaning only at the alcohol gel outlet.

## 1.4 Power and Plug

Unplug the device from the wall outlet under the following conditions:

If the product will not be used for a long period of time.

If the power cord, plug, socket or battery is damaged.

If the product is damaged by a drop or impact.

If the battery is placed with a power source.

Plug the device into an outlet under the following conditions:

If the battery is discharged. Attention, the power cord can be dangerous in areas of high circulation.

## 1.6 Cleaning and maintenance

Clean the Biocheck-in with a soft dry cloth.

To avoid damages, do not apply any type of force or wet the buttons inside the compartment, where the sensors are placed.

Do not use products with chemical composition, it may damage the surface finish.

Do not apply any force or pour any liquid into the compartment, it damages the electronics in the device.

## 1.5 Product Specifications

Precision: + - 0.2°C (32.6 - 50°C)  
place the device at room temperature 30 minutes before being used.

Measuring distance from sensor to wrist: 5 cm - 10 cm

Minimum response time: 3 sec  
(school workflow)

Alarm type: LED display and bleep

Interface: USB Type-C port

Input: DC 5V - 2A

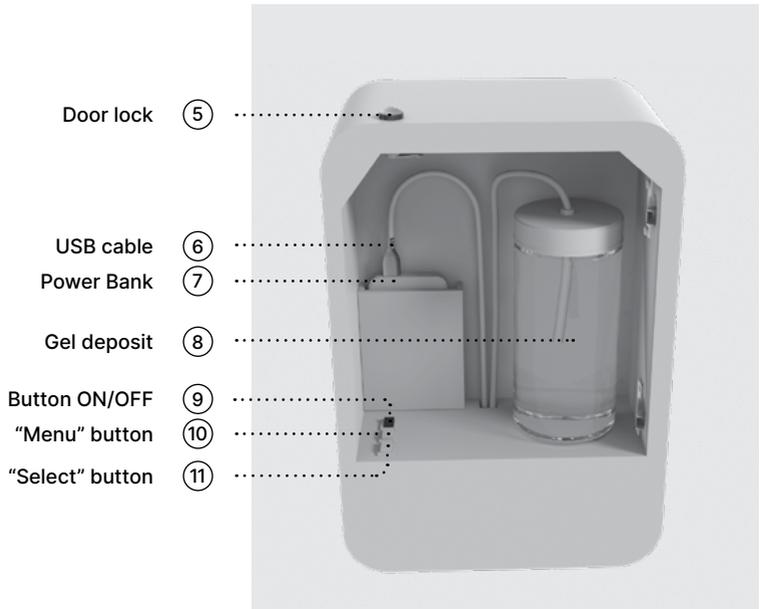
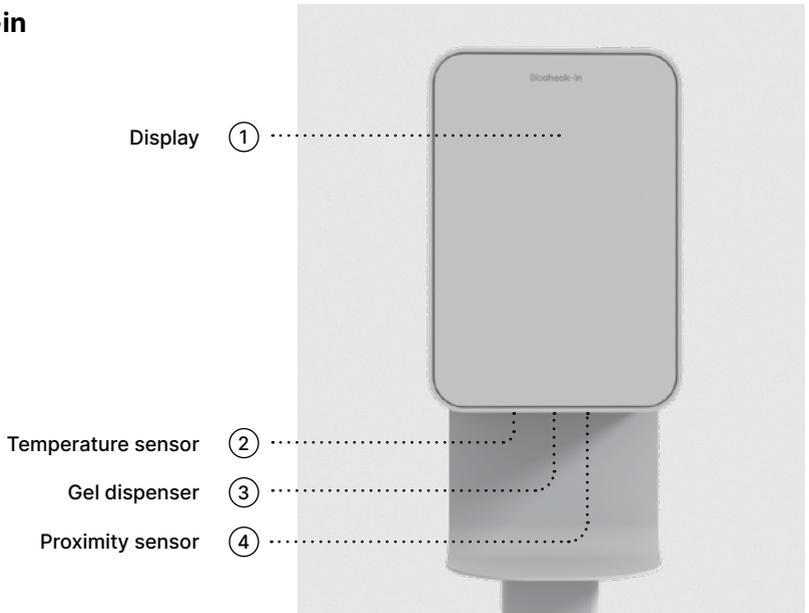
Operating Temperature:  
15 ° C to 35 ° C (59 ° F to 95 ° F)

Operating Humidity: 20% to 80%,  
without condensation

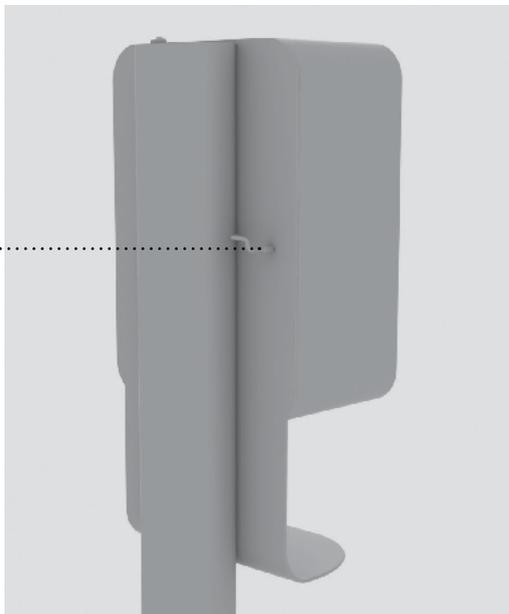
Storage Temperature:  
-15 ° C to 45 ° C (5 ° F to 113 ° F)

Storage Humidity: 10%to 90%,  
without condensation

## 1.7 Biocheck-in



USB-C port ⑫



## 1.8 Components

The “Menu” and “Select” buttons located inside the compartment allow you to calibrate the Biocheck-in.

However, for simplified use, download the Biocheck-in APP: [www.biocheckin.pt](http://www.biocheckin.pt)

Button A “Menu” activates the navigation options on the screen.

Button B “Select” allows to select the options.



## 1.9 Settings

Once the Button A "Menu" is selected, the following options will appear on the screen:

### 1. G, GEL. Dosage of alcohol gel.

Select from:

0.5 seconds (Aqueous gel)

1.0 seconds (Normal gel)

2.0 seconds (Viscous gel)

### 2. P, PUMP. It allows to prime the pump.

Select from:

1, pump on.

0, pump off.

Menu button (option transition also turns off the bomb).

### 3. B, BRIGHTNESS.

Screen brightness. Allows you to adjust the brightness between 10% (minimum) and 100% (maximum) brightness, in 10% increments.

*Note: Pressing the menu button after the last option exits Menu mode, and returns to normal Biocheck-in operation.*

Each option acts in real time, or immediately demonstrates the effect:

The gel, dispenses a dose according to the time selected on the screen.

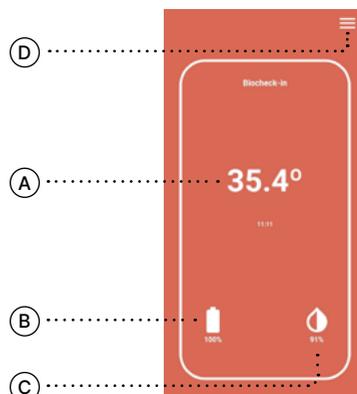
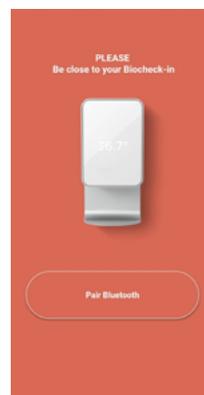
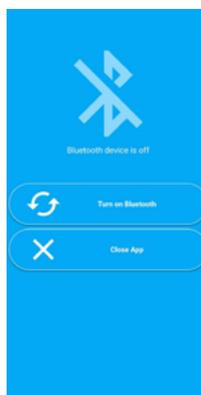
The pump turns on and off.

The brightness is represented on the screen, with the exception of 0%, which takes effect as exiting the menu.



## 1.10 App

- Download the Biocheck-in App from [www.biocheckin.pt](http://www.biocheckin.pt)
- Turn on your mobile device's Bluetooth. Get closer to Biocheck-in.
- Pair your device with Biocheck-in.
- On the home screen you will find the last temperature measured (A), the battery level (B) and amount of gel in the tank (C).
- Select the "Menu" button (D) to change the device settings.
- In the "Workflow" button (E) you can change and select different workflow options available.
- In the "Screen Brightness" (F) button you can increase or decrease the brightness of the screen.
- In the "Gel Dosage" button (G) you can change the type of gel you place in the tank.
- In the "History" (H) button you can export an excel .csv file with recorded temperature measurements, battery levels and alcohol gel levels.
- In the "Maintenance" button (I) you have options to prime the pump and reset the replenishment of the tank (this operation should be done each time the tank is refilled).
- In the "WorkFlow" menu (E) there are three user modes where you can configure usability parameters like dosage, temperature measurement speed or screen brightness according to the type of activity and the

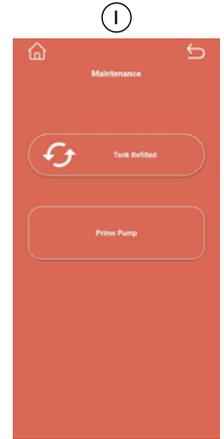
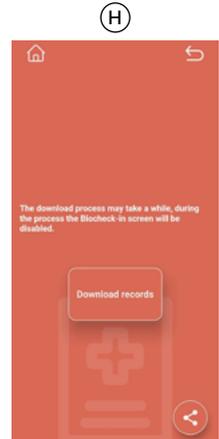
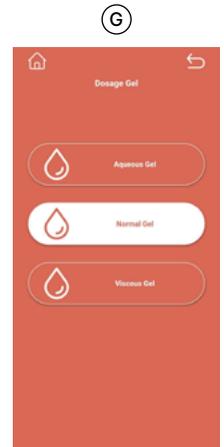
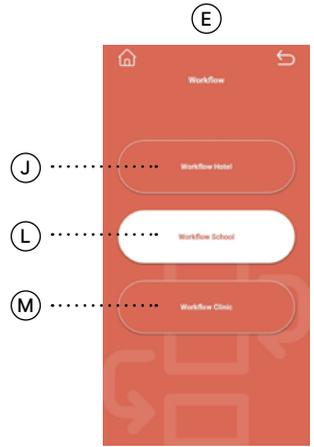


dynamics of the space.

In the Workflow Hotel (J) the user measures the temperature and then receives the dose of alcohol gel.

In the Workflow School (L) the user measures the temperature and receives the dose of alcohol gel simultaneously.

In the Workflow Clinic (M) the user measures the temperature and then receives the dose of alcohol gel.



## 1.11 Bluetooth Pairing

During pairing of the device with the smartphone will appear on the screen of the Biocheck-in a Bluetooth icon. This icon indicates that at that moment the application of Biocheck-in becomes active in the device closest to you.



Once the Bluetooth of the smartphone to which it was paired is turned off the Biocheck-in screen will display this symbol.

The maximum range of the Bluetooth in open spaces is 50 meters, so the connection can be broken if the area has many obstacles or by leaving this virtual boundary.



## Preparing the device for first use

### 2.1 Assembly and Instalation



1 x



1 x



1 x



1 x



1 x



1 x



1 x



1 x



#### **Attention!**

**1.** Before starting the assembly, make sure you have the correct tools.

**2.** Two people are required for transportation and assembly.

**3.** During assembly, place items on a mat or protected surface, never on the floor.

**4.** In case of doubt during assembly, contact Greenapple.

**1.** Place the stainless steel base and foot in a horizontal plane.



**2.** Align the foot holes with the base.



**3.** Place the iron base aligned with the same holes.



4. Tighten the washer screw, joining the base to the foot.

2 x



5. Place the mdf base aligned with the holes.



6. Tighten the screws to the base.

1 x



8 x



7. Align the levelers with the holes.

4 x



8. Tighten the levelers with the screws.

1 x



8 x



9. Check the stability of the assembled piece.



**10.** Place the piece vertically.



**11.** Align the holes in the back plate with the ones in the foot.



**12.** Tighten the washer screw, joining the back plate to the foot.



**13.** Check the stability of the assembled piece.



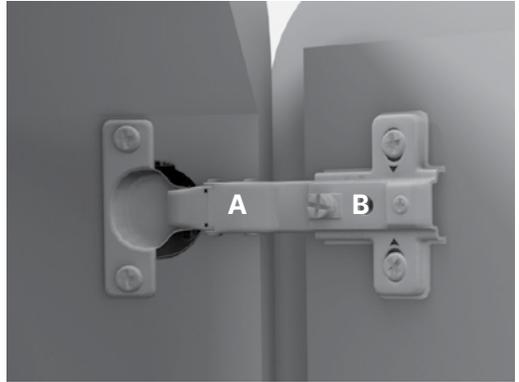
**14.** Place the hinges of the chassis in line with the respective grooves on the back plate.



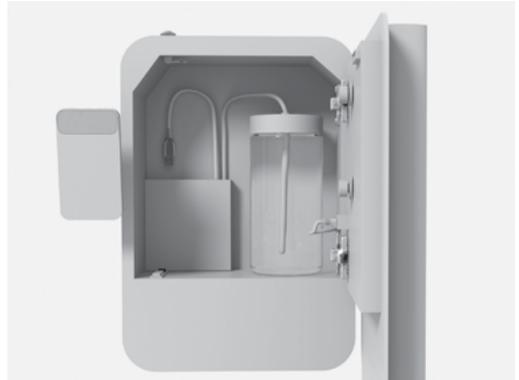
**15.** Overlap the two elements and perform a pressure movement on the tip of the hinge.



**16.** Stabilize the hinge alignment at point A and apply pressure on point B until it clicks into place.



**17.** Fully charge the power bank before the first use.



**18.** Place the power bank in the compartment.



**19.** Connect the USB cable in the compartment to the respective power bank socket.



**20.** Unscrew the tank cap.



**21.** Remove the tank from inside the compartment. Do not fill the tank while it is in the compartment. You may damage the electronic components if it leaks.



**22.** Fill the Gel tank. On the packaging you will find the 1500ml marking that indicates the maximum capacity of the tank.



**23.** Place the tank inside the compartment.



**24.** Screw on the tank cap correctly, so that there is no gel leaks.

Check if the alcohol tube is not touching the bottom or sides of the tank. The tube must be suspended 5 mm from the bottom of the tank.

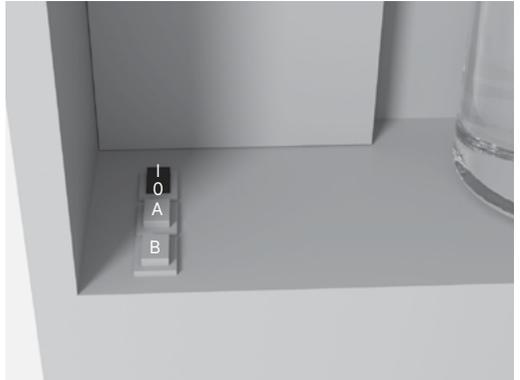
If the tube is touching the bottom, it will stick to it and in certain situations this will not allow for the correct flow of the gel.



**25.** Turn on the device by pressing the ON/OFF button. The Biocheck-in device will be operational in standard mode. At this point, you can choose to proceed to manual configuration or to download the device App through the website [www.biocheckin.pt](http://www.biocheckin.pt).



**26.** To complete the installation of the gel tank, it is necessary to prime the pump. Open the Biocheck-in App and select the option "Maintenance" – "Prime Pump"; or optionally follow the instructions in chapter 1.9 of this manual.



**27.** Wait a few seconds until the gel reaches the bottom of the Biocheck-in. You can now configure, depending on the type of gel, the amount and time it will be distributed.



**28.** After priming the pump, close the device.



**29.** Join the front part with the back and lock the lock on top of the device.



**30.** Check that the device is properly closed.



**31.** Start using the device.



**32.** Optionally, the device can be connected directly to the plug without using the power bank. Please use the 5V-2A AC/DC transformer supplied with the equipment.



**33.** On the back of the device there is a USB-C port that connects to the internal battery.



**34.** Once connected, the device's screen will show it to be in standby mode.



**35.** Move your wrist closer to the bottom of the device.



**36.** The red laser pointer will show where to place the wrist for temperature measurement. Measure only on the wrist, 4 cm from the hand, keeping it facing up.

The skin must be clean and dry, in case it's wet wipe with a dry cloth first. Do not use the device if the skin is too hot or cold due to the influence of solar radiation, heat from heat sources or air flows from air conditioning systems.

In extreme weather conditions before using Biocheck-in, take a moment to acclimate your body temperature to room temperature for a reliable measurement.



**37.** After a measurement is finished the device will show in green text a normal temperature value (between 35C and 37.4C) with a green light in the wrist area.

If the temperature is higher than 37.4C the text and light are shown in red. Additionally, there will be a strong beep.



**38.** If the temperature measured at the wrist is below 35C Biocheck-in will not present a value, as the measurement performed does not represent the body temperature (see paragraph 36). In this case the device will display the symbol shown here.



**39.** When the wrist is placed on a incorrect position under the temperature sensor Biocheck-in will not perform the measurement and will alert the user with the "LO" warning.

Place the wrist again, this time closer to the sensor and aligned with the red laser pointer to run the temperature measurement again.



**40.** The blue light warns the user that the device is dispensing the gel.

Note: This step only applies to the Hotel and Clinic 'Workflows'. In the School 'Workflow' the gel will be dispensed at the same time as temperature measured is displayed on the screen.



**41.** Four pulsating red dots in the lower right corner demonstrate that the power bank is discharged and the internal battery is being drained.



## 2.2 Turn on with Power Bank

Fully charge the power bank.

Open the Biocheck-in device and connect the power bank to the USB cable.

Biocheck-in will be turn on in standard mode.

You will have approximately 20h of battery life with a single charge.

## 2.3 Plug in

First connect the USB-C Cable to the Biocheck-in device.

Then connect the cable to the transformer and plug it in.

In this case the power bank needs to be disconnected(and can be removed).

## 2.4 Turn Off

1. When you are disconnecting the device By pressing the "ON/OFF" button, the power bank inside will shut down automatically and turn on again when the Biocheck-in device is restarted.

2. In case the device is connected directly to the plug, you can simply turn the device off in the "ON/OFF" button while leaving the device connected to the plug.

## 2.5 Power Bank Charging process

The charge level is shown in the initial menu of the Biocheck-in App.

When the device has no charge on the power bank it will display four pulsating dots in red on the bottom right corner.

Turn off the device to remove the power bank from the compartment for charging.

Charge it completely and put it back inside.

Restart the device.

## 2.6 Internal Battery

Apart from the power bank, each device has an internal battery.

When the device is disconnected from the plug or the power bank has no charge, the device uses the power in the internal battery.

The Biocheck-in device will not restart once the internal battery is discharged, even when connected to the plug or power bank.

In this case connect the device to plug and wait an hour to charge the internal battery until it resets.

Confirm that the "On/Off" button is switched on before starting charging.

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## Additional information

### 3.1 Remarks

Biocheck-in is not a medical device.

It was designed to be used in practice but can never replace an appointment with a doctor.

The thermometer applied in Biocheck-in was designed only for temperature measurements made in the wrist.

Never compare temperatures measured with different thermometers.

Several factors may influence temperature measurements such as individual metabolism, age, clothing, outside temperature, time of the day, in the morning the body temperature is lower and increases throughout the day until night.

Do not use this device for purposes other than those mentioned in this manual.

### 3.2 Problems & Solutions

If you are trying to turn on the Biocheck-in device in the ON/OFF switch and it issues an audible signal (beep) but does not show any information on the display, check that the power bank is properly charged and or connected. If the power bank is switched off press it's side button to switch it on.

Check that the alcohol gel has not condensed or evaporated if left unused for a long period of time.

Do a usage trial:

If you notice that no gel is being dispensed, prime the pump using the menu options.

If the power bank is completely discharged and the device is not connected to the plug, there is a possibility that the internal battery has run out of power. In this situation if you connect a charged power bank the device will not restart because the inner battery needs to be recharged as well.

Connect the Biocheck-in directly to the plug (with power bank disconnected) and wait an hour to charge the inner battery.

### 3.3 Error Codes

E00-Problem with the temperature sensor. Contact manufacturer.

E01-Check if the Biocheck-in device is not in a location with room temperature higher than 35°C and or is under solar exposure or near another source of heat. If the error persists, contact the manufacturer.

E02-Problem with the user detection sensor. Contact manufacturer.

E03- Problem with the user detection sensor. Contact manufacturer.

E04-Memory problem. Contact manufacturer.

E05-Connect the Biocheck-in device to the APP. Make a test use, measuring the temperature and receiving the alcohol gel. Download the History and check if the last use has the updated date.

E06-Error in the internal memory. Restart the device. Check if the problem persists. If the system does not acknowledge the same error, problem should be corrected.

E07-Internal battery problem. Make sure you have installed a recharged power bank and or have the device connected to the external power source. If the error persists, contact the manufacturer.





# Biocheck-in

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[www.biocheckin.pt/](http://www.biocheckin.pt/)

Made in Portugal

Biocheck-in is not a medical device.

It was designed to be used in practice but can  
never replace an appointment with a doctor.

The thermometer applied in Biocheck-in was designed  
only for temperature measurements made in the wrist.



## Biocheck-in

Biocheck-in is a trademark developed and marketed by Greenapple.  
Developed in collaboration with Instituto Superior Técnico  
100% Made in Portugal · CE Certified devices

Follow us on Instagram [@biocheckin](https://www.instagram.com/biocheckin)



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