



USER MANUAL

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# INCUBATOR

## Avis 200/400



Issued: January 2026

Version: 1.0.1



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The contents of this user manual is confidential. He who is in possession of it, without the knowledge of ANITEC, has obtained it illegally.

## Before Reading This User Manual



Please read this instruction manual carefully before using the brooder. ANITEC is not liable for damage caused by non-compliance with the regulations and instructions or by incorrect use. In these cases, the warranty will be void.

Images and drawings in this user manual may differ from the incubator supplied.

### Icons used in this manual:



Warning to prevent problems.



Tip or advice.



Dangerous electrical voltage.

If you have any uncertainties, questions or comments, please contact ANITEC.

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# 1. Safety instructions



Improper use or failure to comply with warnings and instructions may result in personal injury and/or property damage to persons or property.

To ensure a safe installation, please read the section 3. Installation carefully.

It is not permitted to make modifications to the incubator or to use non-original parts. ANITEC is not liable for damage or malfunctions resulting from this.

Work not described in this operating manual may only be carried out by qualified personnel.

Always switch off and unplug the incubator before cleaning, moving, or opening the lids.



This machine is provided with the CE mark. This means that the incubator complies with the applicable European directives.

## 2. Parts & function

### 2.1 Parts

The incubator consists of several functional main components. The frame is made of insulated, hard PVC sheets, which ensure excellent insulation and easy cleaning.

A 5.2-inch LCD touchscreen is available for monitoring and setting up the machine. The door is equipped with double glazing and can be opened and closed with a clutch.

For sufficient ventilation, ventilation grilles have been installed at the front, both at the top and bottom. The size of these openings can be adjusted manually.

In addition, the machine has a 1.8-liter water tank for automatic humidity control. You can refill this reservoir via the filling opening on the front.

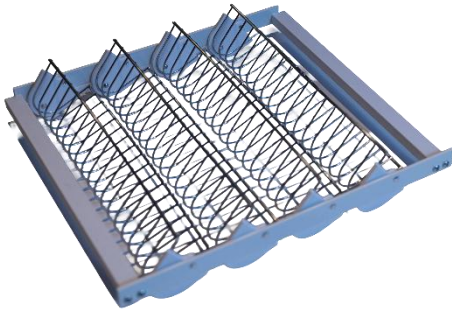


### The egg trays



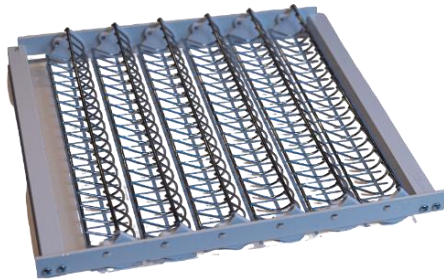
#### Egg tray with rolls

The eggs are placed on rolls that are slowly set in motion by a rotating mechanism. This rotational movement ensures an even tilt of the eggs during the incubation process. This type of egg tray is especially suitable for large eggs, such as those of cranes, geese, etc.



### Large egg trays

The eggs are placed flat or air chamber up in the rack. These racks are intended for medium-sized eggs, such as those of chickens, ducks, etc.



### Small egg trays

These racks are designed for small eggs. They ensure a stable position and correct positioning. Suitable for eggs of pheasants, parakeets and other small bird species.

Each egg tray can be placed either at the top or bottom in the provided guides. Slide the tray back between the runners and make sure that the egg tray hooks into the cleat. You can do this by moving the egg tray until it is in the correct position. If the egg trays are placed correctly, the door will be able to close without resistance. The cleat ensures the automatic turning of the eggs by means of horizontal movement.



Place the cleat in the center position to make it easier to insert the egg trays.



## 2.2 General Functions

### 2.2.1 Temperature Control

The internal air is heated via an electric heating element. Temperature control is done using a robust control loop. This optimal control algorithm, in combination with a high-precision temperature sensor, ensures a maximum deviation of only **0.1 °C** from the set value. Thanks to the internal air circulation, the temperature is homogeneously distributed over the entire internal chamber.

The temperature sensor is calibrated using high-precision reference thermometers. An extra thermometer can always be placed to check the temperature accuracy. If you still want to calibrate the temperature using your own reference thermometers, please refer to section *4.3.8 Calibration*.

If the temperature becomes too low or too high due to external influences, this can be signaled via an alarm signal. To activate this alarm, please refer to *4.3.5 Setting Alarms*.

The incubator is protected by software with a switch-off temperature of **40 °C**. As soon as this temperature is exceeded, the system automatically switches off and an alarm signal is activated. In this case, a complete reboot of the system is required.

In addition, the incubator is also hardware-protected with a built-in heat fuse. It is an additional safety feature and is activated when the temperature in the heating chamber exceeds **50 °C**.

## 2.2.2 Humidity Control

The relative humidity within the incubator is automatically regulated by means of a fan in combination with a water heating element. The water heating element is only activated when an increase in relative humidity is required, in order to optimize energy consumption.

At high ambient temperatures, the regulation of the relative humidity can be difficult, as natural evaporation increases. To achieve lower humidity values, it is recommended to remove the water from the water tank (see *Chapter 6.1 Annual Maintenance*) and placing the incubator in a room with a lower ambient temperature. This allows the relative humidity within the incubator to be controlled more efficiently.

## 2.2.3 Turning the eggs

The turning of the eggs is done automatically or can be carried out manually. ANITEC offers standard drawers that are suitable for all egg sizes.

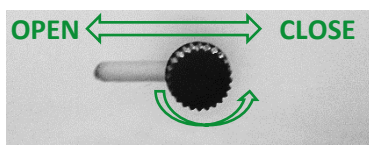


For optimal air circulation, it is important to fill the drawers **with eggs from the middle to the outside** .

In automatic mode, the daily rotation frequency can be set, see the *Section 4.3.1 Set values* for more information. To easily insert or remove the egg trays, it is possible to rotate the egg trays until they are in a straight position.

## 2.2.4 Air ventilation

As the incubation process progresses and the chick grows inside the egg, more CO<sub>2</sub> is emitted. That is why it is recommended to allow more fresh air into the system. The amount of fresh air that is let into the system can be regulated by the slider at the bottom of the door.



To open the knob, turn the knob half a turn and slide it to the left.



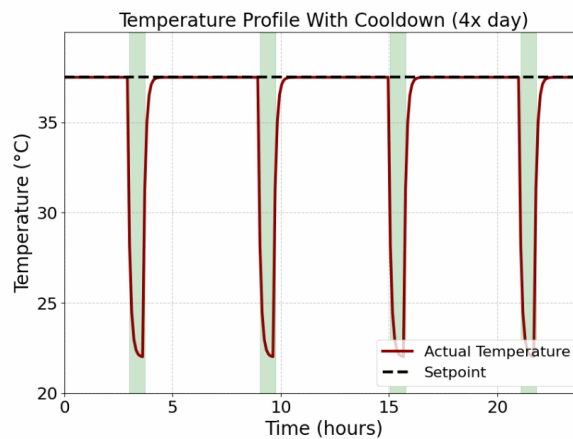
The more ventilation is provided, the more the system consumes electrically. The fresh air must be heated and possibly supplemented with water vapor.



If you notice that the humidity set point is not met, it is possible that too much moisture-rich air is leaving the system. It is therefore recommended to limit ventilation to the outside environment at very high humidity levels.

### 2.2.5 Cooldown schedule

For the breeding of some bird species, a cooling schedule is desired. Here, the heating element switches off for a set time. As a result, the air temperature drops continuously throughout the set period. The daily frequency of cooling down and the time per cooling period can be set, see section 4.3.2 Setting Cooling Schedule. In the example image below you can see a daily frequency of 4 cooldowns, each cooling down takes one hour.



## 2.3 Filling the water tank

The water tank is located on the side of the incubator. The water tank is filled at the front of the appliance via the filling opening. If the water level is too low, an alarm signal can be activated. To set it up, see section 4.3.5 *Setting Alarms*. The water reservoir has a capacity of 1.8 liters. In an optimal space, the water tank should be refilled every 1 to 2 weeks.



Always fill with demineralised water at about 25 °C

## 2.4 Checklist for each breeding cycle

To ensure an optimal breeding period, it is recommended to go through this checklist:

- Check the temperature
- Check the humidity
- Check the water level in the water tank
- Check the settings
- Check the turning system
- Check the measuring instruments



To ensure that the relative humidity of the internal air is already at its set value, it is recommended to switch on the incubator for 2 hours before incubation.

## 3. Installation

### 3.1 Transport

Always move the incubator at a level level and never when it is in operation.



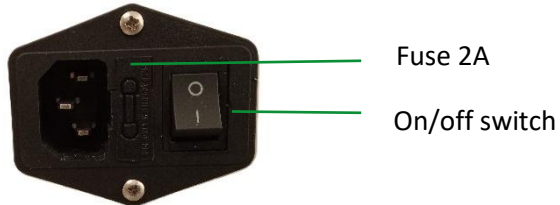
To move the appliance, unplug the power cord from the socket and remove the water from the tank.

### 3.2 Optimal ambient space

Make sure that the incubator is in a vibration-free, stable place at a minimum height of 50 cm. The incubator is placed in a hygienic room with a temperature between 15 and 22 °C and a constant humidity. It is important that both the room and the incubator are disinfected regularly to prevent fungi, bacteria and viruses.

## 3.3 Electrical connection

Connect the incubator to the electrical mains using the power cord. Before connecting, check that the power cord is not damaged.



Toegepaste netspanning: 230V, 50Hz

## 3.4 Wi-Fi Network

For instructions on how to connect the system to Wi-Fi, refer to the section [4.3.6 Setting up Wi-Fi Connection](#).



To be able to follow the incubation process at any time, you can monitor the system online via your favorite web browser. To do this, the console must be connected to your local Wi-Fi network that has access to the internet.



To prevent data loss, we recommend placing the incubator in a location with sufficient network coverage.

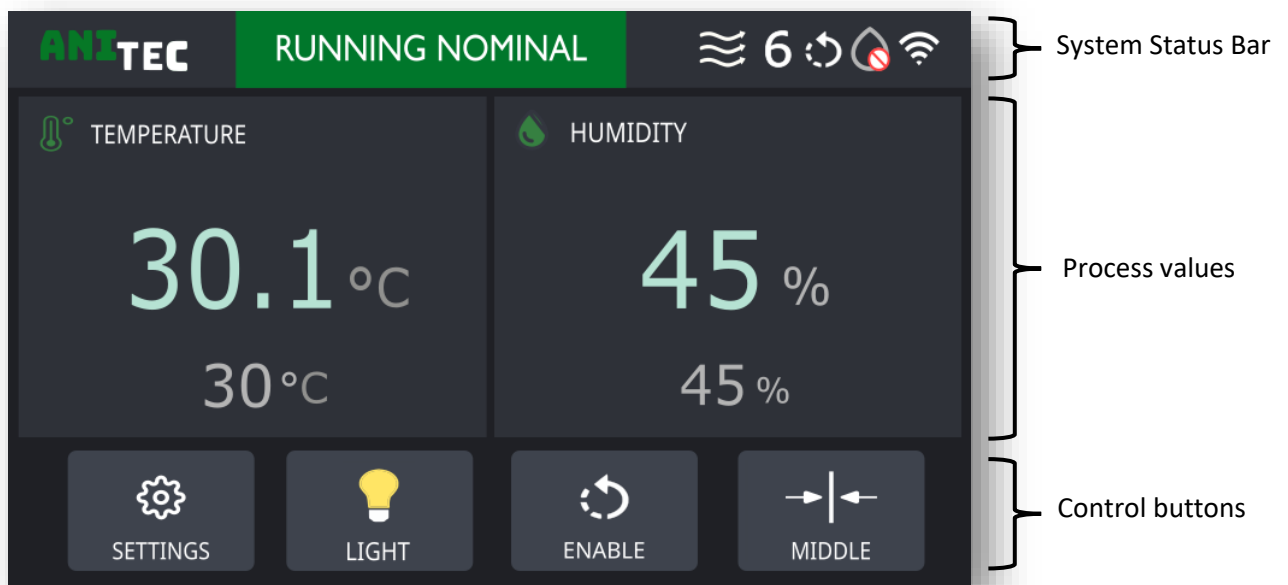
# 4. Operation & control

## 4.1 Turning the System On and Off

The incubator can be switched on and off with a switch on the back of the device.

## 4.2 Main Screen

The main screen is the starting point to access the various settings.



The main screen is divided into the following functions:

1. System Status Bar
2. Process values
3. Control buttons

### 3.1 System Status Bar

At the top of the screen is the status bar, which displays general system information.

- **System status:** Shows the current operational state of the system. The possible states are:

<b>NOMINAL</b>	The system works as expected.
<b>HEATING</b>	The incubator heats up to the set point. This is an expected condition when starting the incubator or when the door has been open for a long time.

<b>BY OPEN</b>	The door of the incubator has been opened.
<b>COOLDOWN ACTIVE</b>	The incubator is in cooling mode. In this mode, the temperature drops for a preset cool-down period.
<b>LOW WATERLEVEL</b>	Water level too low.
<b>SYSTEM OFF</b>	The heating and ventilation system have been switched off due to an error that has occurred! Switch the incubator back on.
<b>SENSOR BROKE</b>	The main accurate digital temperature and humidity sensor is broken. Contact ANITEC for support. The system further regulates the temperature with an analogue backup sensor.

- **System icons**



The icon is displayed when a cooling schedule is set. The system status shows 'COOLDOWN ACTIVE' when the cooldown period actually starts.



Wi-Fi connection status. The icon indicates the signal strength:



No connection



Very weak



Weak



Medium



Strong



Water level



Sufficient water



The water level is too low. Refill the water tank.



The eggs are automatically turned 6 times a day.

### 3.2 Process values

Here the real-time sensor measurements are shown (adjusted with the corresponding calibration shift). The temperature can be displayed in both degrees Celsius (°C) and degrees Fahrenheit (°F). To adjust these, see section '*Fahrenheit – Celsius change*'. The relative humidity is expressed in %RH. The sensor values are updated every three seconds.








#### 3.2.1 Temperature

- **Current Temperature:** Shows the measured temperature
- **Temperature setpoint:** Shows the desired temperature.

#### 3.2.2 Humidity

- **Current Relative Humidity:** Shows the measured relative humidity in percent (%RH).
- **Humidity setting:** Shows the desired humidity value.

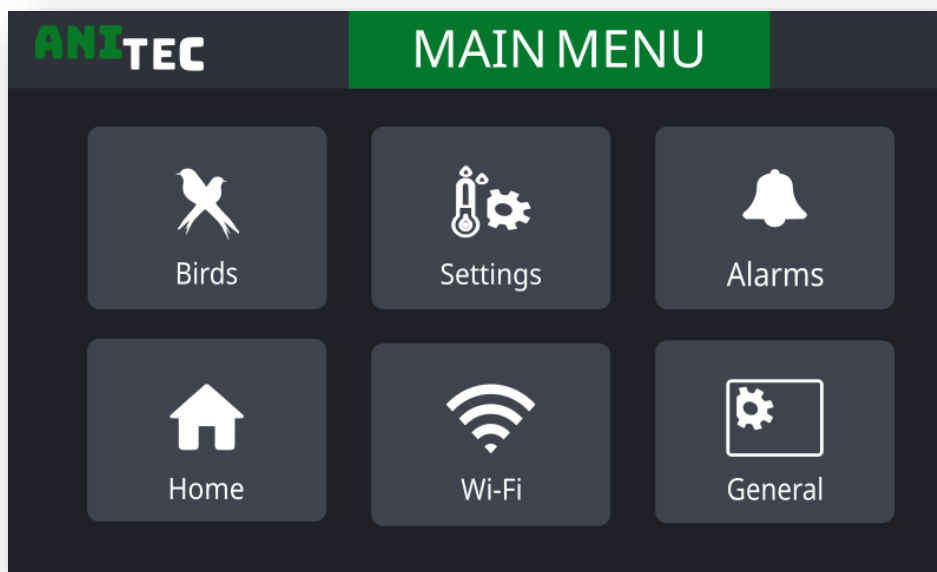
### 3.3 Operator control buttons

	Setting menu
	<p>Switching internal lights ON or OFF The lighting can switch automatically when the door is opened. See section <i>Door settings</i>.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;">Light ON</div> </div> <div style="display: flex; align-items: center; margin-top: 5px;">  <div style="margin-left: 10px;">Lights OFF</div> </div>
	Swivel system goes to the center of the device so that the egg trays stand up, which makes it easier to place the trays.
	<p>Enable or disable the swivel function. When the rotate function is disabled, the icon will be displayed in red. The rotation function can also be switched off by setting the daily rotation frequency to zero via the '<i>settings screen</i>'.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;">Rotate function enabled</div> </div> <div style="display: flex; align-items: center; margin-top: 5px;">  <div style="margin-left: 10px;">Rotate function disabled</div> </div>

## 4.3 Screen Settings

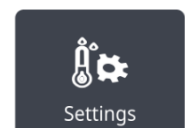


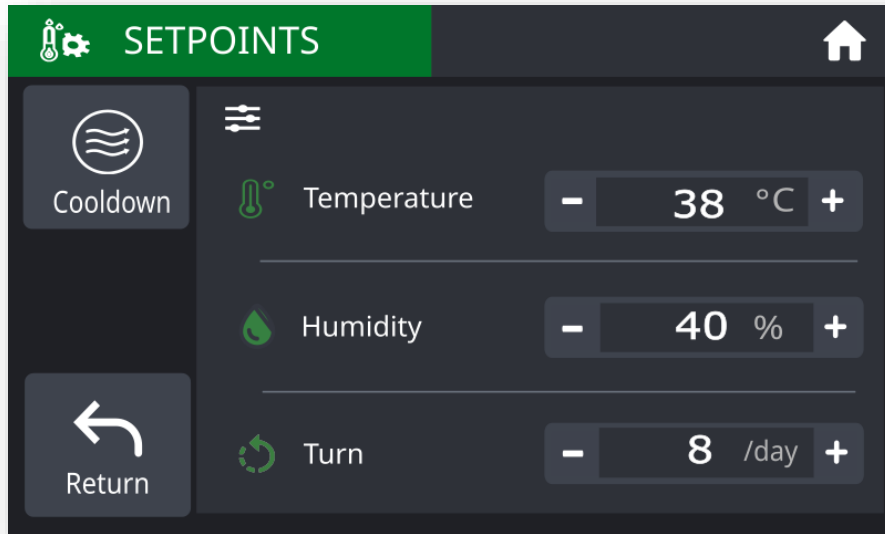
- Bird Selection: Select a bird profile and save the settings
- Settings: Set the temperature, humidity, rotation frequency, and cooling schedule.
- Alarm settings: Turn alarms on or off (too high or too low temperature, door open, low water level)
- General settings: Set general settings such as screen sleep time, brightness, and calibration.
- Wi-Fi Settings: Setting up network and viewing status
- Home: Back to the home screen



### 4.3.1 Set values

Set the temperature setpoint, relative humidity setting, and daily rotation frequency via the '*minus*' and '*plus*' buttons.

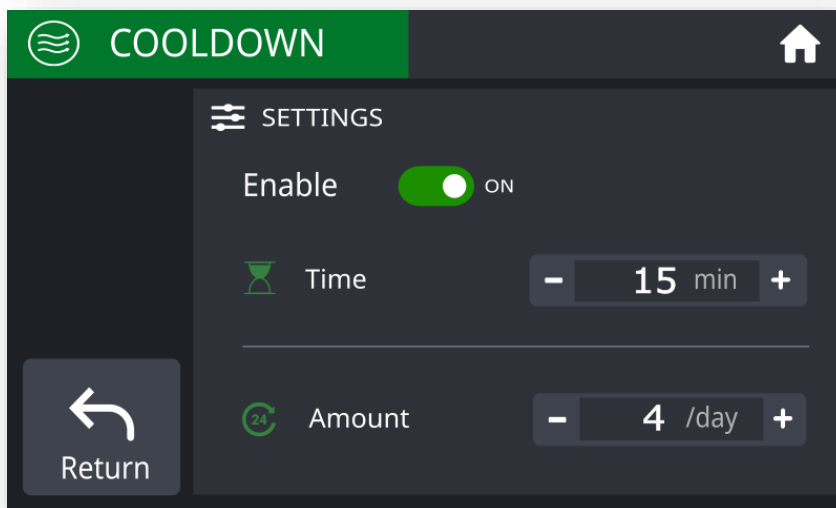




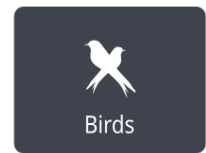
### 4.3.2 Setting Cooling Schedule

Enable or disable the cooldown timer. When the cooling schedule is enabled, it is possible to set the daily cooling frequency, as well as the cooling time per cooling period.

For more information about these settings, see section 2.2.5 *Cooldown schedule*.



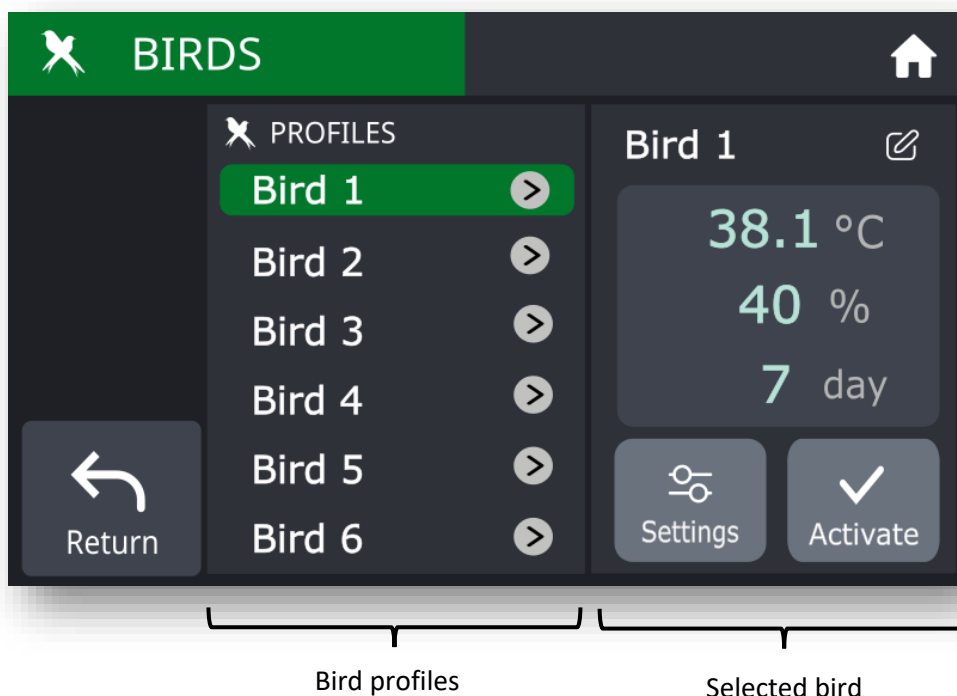
### 4.3.3 Saving and Setting Fixed Bird Settings



The fixed bird settings function is used to manage and apply predefined breeding parameters for different bird species. This feature allows up to six separate parameter profiles to be stored, each linked to a specific bird species.

Selecting a bird name loads the corresponding settings profile and displays it in the right part of the screen. This view shows all breeding parameters assigned to the selected bird.

Applying a settings profile is done by activating the Activation button. After activation, the selected parameters are applied immediately and the system automatically returns to the main screen. This screen displays the active breeding settings, including the name of the currently selected bird species.



	<p>Activate bird parameters: apply settings and return to home screen.</p>
	<p>Adjust the settings of the selected bird. (Temperature, relative humidity, daily reversal frequency)</p>
	<p>Change the name of the selected bird. The keyboard appears automatically.</p>



Back to the main screen



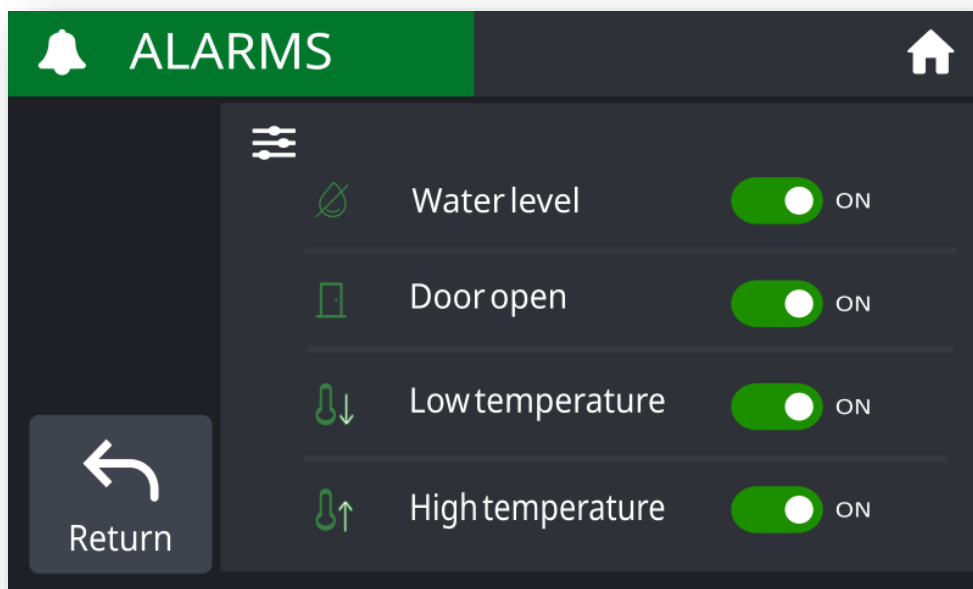
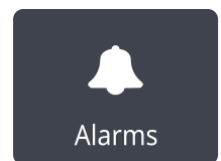
When the incubator restarts, it automatically activates the settings of the last chosen bird profile.

### 4.3.5 Setting Alarms

Four different alarms can be turned on or off individually.

An alarm is triggered if an armed-on condition is not met for a continuous period of 30 seconds:

- **Water level:** insufficient water in the water tank
- **Door:** door is open for a longer period of time
- **High temperature:** temperature exceeds the set point by more than 0.5 °C
- **Low temperature:** temperature drops more than 0.5 °C below the set point



### 4.3.6 Setting up Wi-Fi Connection

Via the Wi-Fi network, it is possible to monitor the breeding process in real time via the following URL: <http://www.anitec-data.be>. Detailed login instructions are provided in the separate *Data Monitoring" manual*.



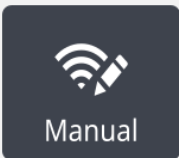
To activate the Wi-Fi function, turn on the Wi-Fi switch on the screen, which can also be turned off if you do not want data on our server.



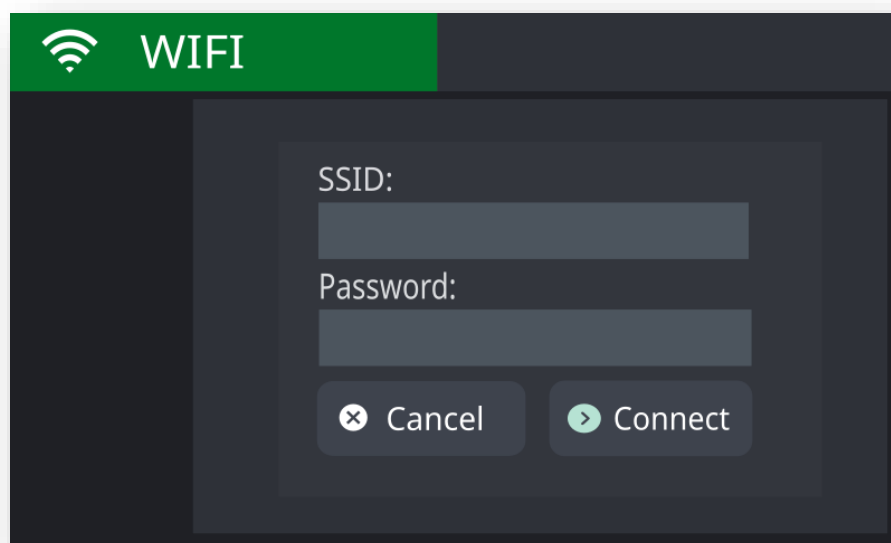
If there is no Wi-Fi network available, it is advisable to switch off the Wi-Fi.



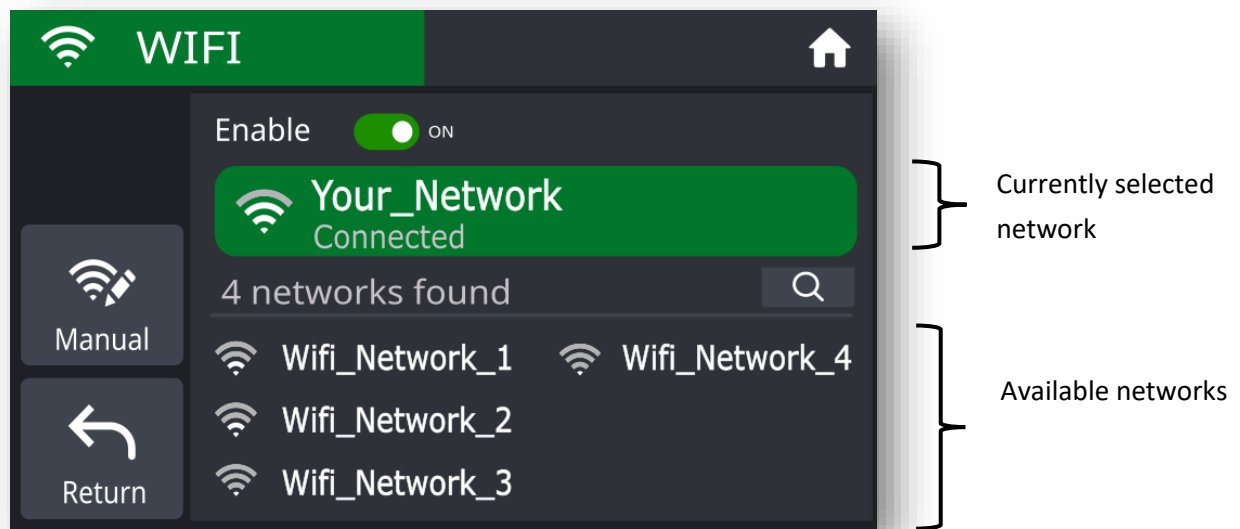
Look for nearby Wi-Fi networks. The available Wi-Fi networks will appear in the network list. Press the desired network.



It is also possible to configure the Wi-Fi network manually.



Enter the corresponding password of the network and connect by pressing 'Connect'. The Wi-Fi status will switch to "Connecting..."



Afterwards, the status changes to one of the following options:

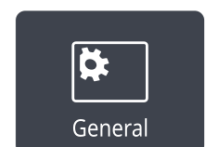
<b>Connected</b>	The incubator is successfully connected.
<b>Disconnected</b>	The incubator is not connected to Wi-Fi.
<b>Connecting...</b>	Trying to connect to the chosen network
<b>Enabling...</b>	The Wi-Fi module will turn on. This will take up to 10 seconds.
<b>No WiFi module...</b>	The incubator does not have a valid WiFi module. Please contact ANITEC to add WiFi capabilities.

When the brooder is successfully connected, the signal icon indicates the signal strength. The higher the threshold strength, the more stable the connection and data collection.

### 4.3.7 Additional Settings

#### 4.3.7.1 LCD Settings

The brightness of the LCD screen can be adjusted with the  $-/+$  buttons in 10% increments.



To reduce power consumption, screen sleep mode can be enabled. When sleep mode is active, the screen automatically turns off after a certain period of inactivity. The sleep timer can be set with the – / + buttons. Available sleep time options are: off, 10 seconds, 30 seconds, 1 minute, and 5 minutes.



To increase the lifespan of the screen, it is recommended not to turn the sleep timer off.

#### 4.3.7.2 Fahrenheit – Celsius Change

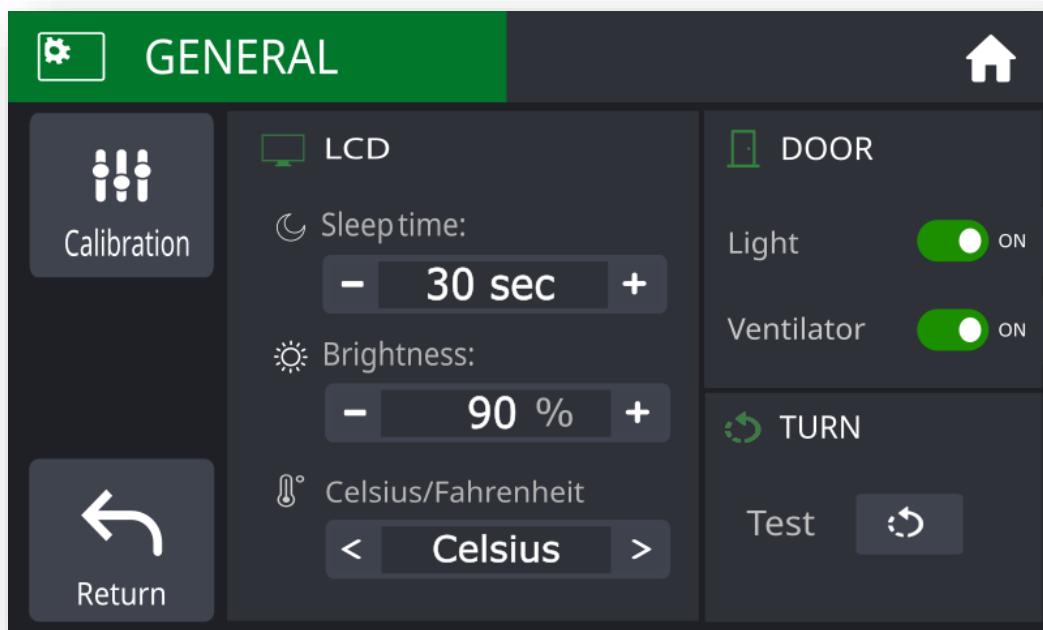
The temperature can be expressed in degrees Celsius (°C) (SI system) or in Fahrenheit (°F). You can switch between the two systems with the arrows.

#### 4.3.7.3 Door settings

The 'Light' switch allows the lighting to be switched on automatically when the door is opened.

The 'fan' switch allows the fan to be switched off when the door is opened. This also turns off the heating.

When the fan is in the 'ON' position, the fan will remain active and the air heater will operate at a reduced power output.



#### 4.3.7.4 Manual Turning



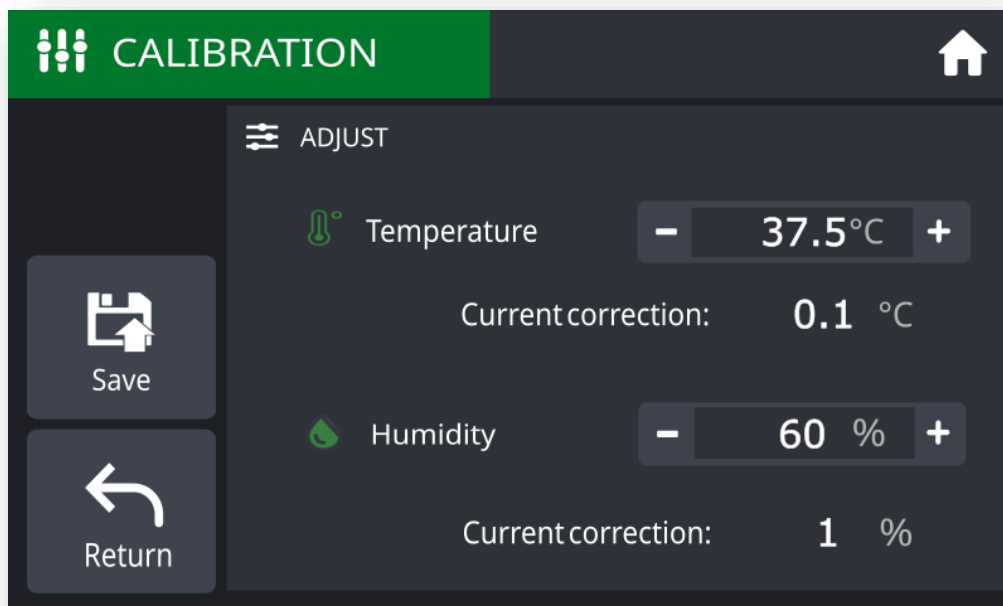
The egg trays make one full rotation movement.

#### 4.3.8 Calibration

To go to the calibration menu, press the icon for 5 seconds. The Calibration menu is used to manually adjust calibration offsets for temperature and humidity measurements. For each parameter, the 'Current correction' field shows the currently applied calibration offset.



Set values with the - / + buttons. Press 'Save' to apply and save the calibration corrections. Press 'Return' to exit the menu without changes.



## 5. Troubleshooting

PROBLEM	CAUSE
The incubator does not start up	<ul style="list-style-type: none"> <li>• Power cord is poorly connected</li> <li>• Rear switch is off</li> <li>• Fuse is broken at mains connection</li> </ul>
Heating is not possible	<ul style="list-style-type: none"> <li>• Door is open</li> <li>• System run stuck → restart !</li> <li>• Temperature sensor is dirty or damaged</li> </ul>
Relative humidity value strongly below set value	<ul style="list-style-type: none"> <li>• Ventilation grille is too open</li> <li>• Water level in tank too low</li> <li>• Water heating poor or not connected</li> </ul>
Relative humidity value well above set value	<ul style="list-style-type: none"> <li>• Ventilation grille is closed too much</li> <li>• Ambient humidity is too high</li> </ul>
Moisture drops sharply when filling water tank	<ul style="list-style-type: none"> <li>• Filled with cold water</li> </ul>
Water level drops sharply	<ul style="list-style-type: none"> <li>• Leak at water tank or pipes</li> </ul>
The eggs do not turn	<ul style="list-style-type: none"> <li>• Egg trays are not well positioned</li> <li>• Auto-turn is disabled</li> <li>• Motor is blocked</li> </ul>
Door cannot close completely	<ul style="list-style-type: none"> <li>• Egg trays are not well positioned</li> <li>• Object is in the door</li> </ul>

# 6. Maintenance and cleaning

## 6.1 Annual Maintenance

After each breeding season, it is recommended to completely clean and disinfect the incubator. ANITEC advises to have your incubator checked and maintained annually. Checking the following components is important:

- Ventilation system
- Heating element
- Electrical wiring
- Temperature and humidity calibration
- Turning system

An annual maintenance contract can be requested through our customer service.

## 6.2 Cleaning & disinfection



**The incubator is always switched off and the power cord is removed before cleaning or moving the machine.**

### 6.2.1 Cleaning the water tank



- Open the cover on top of the water tank by turning the two screws a quarter turn until the screws come up. Remove the cover.
- Empty the reservoir with a sponge or a siphon.
- Clean the reservoir with a soft cloth and do not use aggressive products.
- Close the cover by pressing the screws and turning a quarter turn.



**Do not allow water to enter the openings to the heating chamber.**



### 6.2.2 Cleaning the heating chamber.

- Open the cover above the heating chamber by turning the four screws a quarter turn until the screws come up. Remove the cover.
- Clean the room with a vacuum cleaner, avoiding touching the electrical parts.
- Close the cover by pressing the screws and turning a quarter turn.

### 6.2.3 Cleaning the incubation area

Remove the hatching trays and carefully remove the dirt with a vacuum cleaner and damp cloth. Make sure you don't damage the sensor. Also clean the brood trays.

## 7. Policy

### 7.1 Return & Repair

Requesting a repair request or ordering repair parts can be done via the contact form on the website [www.anitec.be](http://www.anitec.be) or by sending an email to [contact@anitec.be](mailto:contact@anitec.be). You will be notified of your application within two working days.

### 7.2 Warranty

The determination of the settings and the measurement results obtained are the sole responsibility of the user. ANITEC is under no circumstances liable for the damage that may be caused by this.

There is no guarantee of the accuracy of the temperature measurement.

Your product comes with a warranty that covers manufacturing defects in the workmanship and materials. Our warranty does not cover repairs resulting from damage caused by misuse or inadequate maintenance of the product, normal wear and tear, or repairs beyond the warranty period.

For warranty repair, it is necessary that your product is inspected by the ANITEC service department. Our service department will make the final decision on the status of your product upon receipt.

Since ANITEC has no control whatsoever over the correct placement and commissioning of the incubator, only the warranty of this product will include the product itself. The warranty period of this product is 2 years.