

Operation Manual

Incubator for Reptile Eggs

52168, 52169



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps, and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.

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If you should find a mistake or wish to make a suggestion for improvement, we look forward to hearing from you.

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Our postal address is:

WilTec Wildanger Technik GmbH
Königsbenden 12
52249 Eschweiler
Germany

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Königsbenden 28
52249 Eschweiler
Germany

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E-mail: service@wiltec.info

Tel: +49 2403 55592-0

Fax: +49 2403 55592-15

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Returns Department
WilTec Wildanger Technik GmbH
Königsbenden 28
52249 Eschweiler

E-mail: service@wiltec.info

Tel: +49 2403 55592-0

Fax: +49 2403 55592-15

Introduction

Thank you for purchasing this quality product. **To minimise the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

Safety notes



Careful!

This device is not meant to be used by people (including children) with limited physical, sensory, or mental abilities and/or lack of knowledge, unless they are supervised by a person responsible for their health and safety or have been instructed by this person on how to use the device. Children need to be supervised to ensure that they do not play with the device.



Attention!

- Visually examine the device before every use. Do not use the device if the safety measures are damaged or worn. Never override safety measures.
- Only use the device according to the purposes described in this manual.
- You are responsible for the safety in the working area. Always keep the working area clean and tidy to reduce the risk of accidents.
- If the electricity cable or the electricity plug are damaged due to external influences, the cable must not be repaired, but needs to be exchanged. This work must only be carried out by a qualified technician.
- The rated voltage on the type label of 230 V alternating current needs to correspond to the existing mains voltage.
- The device must never be lifted, transported, or attached from its electricity cable.
- Ensure the electrical plug connection being in an area protected from flooding and humidity.
- Always pull the electricity plug before carrying out any work on the device.
- Avoid exposing the device to a direct stream of water or rain.
- The operator is responsible for the compliance with local safety and installation requirements. If necessary, ask a qualified technician in case of questions remaining.
- In case of a failure of the device, maintenance work may only be carried out by a qualified technician.
- Read all safety notes and instructions. Non-compliance with the safety notes and instructions can lead to electric shock, fire, and/or serious injury.
- Keep all safety notes and instructions in a safe place, which is always accessible.

Technical data

Display temperature range (°C)	0–99
Temperature measurement accuracy (°C)	±0,1
Display humidity range (%)	0–99 RH (relative humidity)
Humidity measurement accuracy (%)	±3 % RH
Functions	Adjustable temperature regulation Hygrometer to measure humidity Temperature display Humidity display Day number display
Power supply	230 V / 50 Hz

Max. egg number

- 52168: up to approx. 32 eggs (depending on clutch type)
- 52169: up to approx. 48 eggs (depending on clutch type)

General notes

- This incubator allows you to maintain a constant temperature that will enable you to successfully hatch a wide variety of reptile eggs. The incubation temperature, humidity, and other parameters vary depending on the species. Therefore, we recommend that you consult a specialised breeder who can advise you on the conditions for the species that you are planning to hatch.
- An alarm function signals when the internal temperature falls below or exceeds the temperature limits set by the user. In addition, the incubator counts the number of days the eggs have been incubated so that you are ready for the possible incubation date. The real-time temperature display allows the user to monitor the indoor temperature as needed.
- The incubator does not have a cooling function. It is therefore necessary to monitor the ambient temperature and, if necessary, move the incubator to a cooler spot.

Surrounding conditions

- The area where the incubator will be placed should be well ventilated, especially if there are multiple incubators located in this room. There must be an efficient ventilation (no air draught!).
- Make sure that the incubator is placed on a flat, even, and solid surface, not exposed to direct sunlight.
- It is recommended to place the incubator far away from heating sources, drafts, and windows to avoid harmful changes of temperatures. Additionally, the incubator should be kept with the included polystyrene packaging, which provides protection.

General information on breeding

1. When is the incubator ready?

The incubator should run for **at least 24 hours before placing any eggs** into it. If possible, let the incubator run for a week without eggs. Thus, you will easily see if all parameters can be adjusted and work as required. Additionally, you will learn how the incubator functions and adjustments work during this time. There is nothing more harmful to the eggs than wrong adjustments of the incubator. If everything works accordingly in the testing period, the incubator must be **cleaned thoroughly** with a suitable disinfectant.

The intended humid and warm climate in the incubator is a good breeding ground for bacteria and fungi. Not disinfecting the incubator invites the growth of these, posing a threat to the entire brood. Thus: **Before the first breeding and after every new breeding, thoroughly disinfect the incubator.**

You need to make sure that the disinfectant is suitable for the material of the incubator. Otherwise, the material can be attacked and the hatching process endangered.

Important note on parameters: Be sure to properly understand the term “internal temperature” (“internal”). Do not confuse the term “internal temperature (inside the egg)” with “internal temperature (inside incubator).” The internal temperature within the incubator constantly changes up and down. The internal temperature of the egg thus is the average temperature of the temperature fluctuations inside the incubator.



2. Which temperature should my incubator have?

The required temperature depends on the individual type of animal. For every type of animal has its own requirements, and even amongst reptiles, there are differences regarding the required temperature during the breeding process. There are even some reptile species whose sex depends on the inner egg temperature. The temperature required depends on the type of incubator, too.

An overview of various reptiles and the required breeding temperatures:

Type	Breeding temperature (°C)
Bearded dragon	27–31
Leopard gecko	26–31
Corn snake	25–29
Ball python	29–32
Hermann's tortoise	28–31

3. Does my thermometer show an exact value?

Thermometers are not exact. Keeping the temperature constant might be difficult, even with good thermometers. If running a big incubator over a longer period, you can optimise the temperature, regardless of what the thermometer states.

After the first breeding process, you may modify the temperature (set it to a higher or lower value).

How to check the thermometer: Keep notes during the time of the brood, as these are a reliable aid. You will soon have the required routine to select the right adjustments and settings for a successful hatch. Alternatively, an additional thermometer can be placed in the incubator to be able to see the various temperature differences and readjusting the temperatures of the incubator accordingly.

4. What is the rate of air humidity required?

The air humidity required varies again depending on the brooded type of animal and needs to be changed during the breeding process. Inform yourself beforehand on the requirements to be met in the incubator.

Note: The humidity is checked with a so-called hygrometer. It is near enough impossible to keep humidity as exact as temperature, especially in small incubators. Just try to keep it as exact as possible.

Important: The air humidity changes with the season. If the breeding is carried out in January and February, it is very difficult to keep the humidity at the desired level, as the external humidity is rather low (depending on the location).

In June and July, the external humidity usually is higher, resulting in the humidity in the incubator being higher than desired. To avoid these problems, change the water surface in the incubator: To increase the humidity and thus to enlarge the water surface, place an additional container with water/a few small moist sponges in the incubator. Alternatively, the eggs can be sprayed with fine water mist. To reduce the humidity, decrease the water surface by using smaller containers.

Important: Choose the shape and design of the water containers keeping in mind that they should not be fatally dangerous for the hatched reptiles.



5. How long is the incubation time?

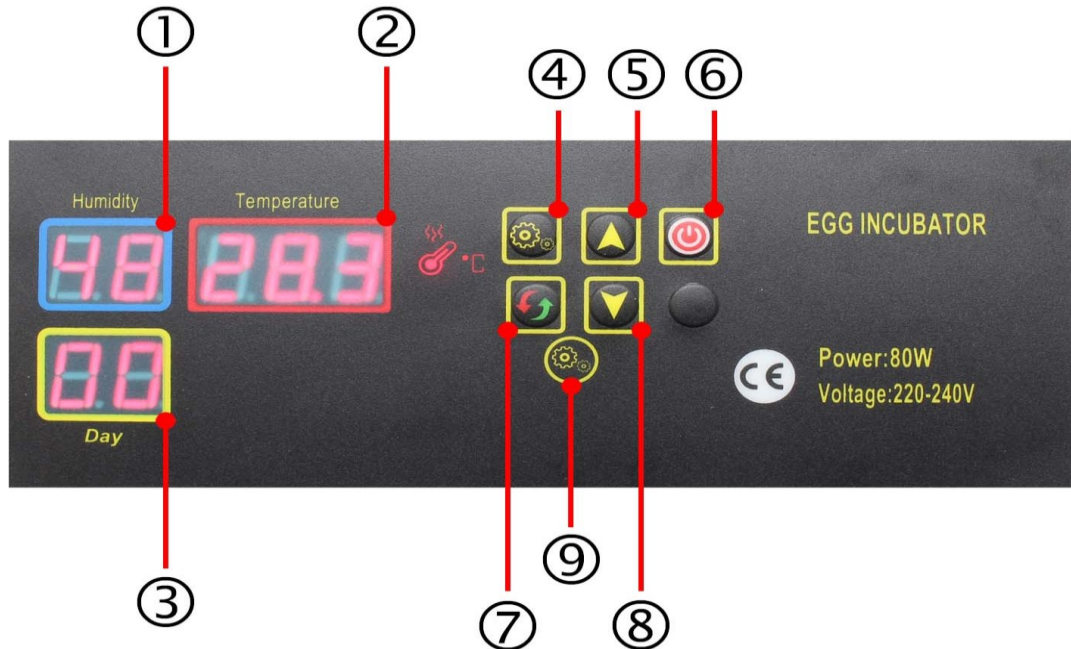
Reptile	Incubation time (days)
Bearded dragon	55–86
Leopard gecko	45–65
Corn snake	55–86
Ball python	55–71
Hermann's tortoise	54–79

Operation

Before the eggs are placed in the incubator, regard the following:

- Open the packaging and check the content on integrity.
Note: The incubator should stay in the polystyrene packaging; on the one hand energy is saved, on the other hand the eggs are protected from external influences. If there are no holes for the according connections and switchboards, these need to be added. Carefully use a sharp knife or small saw.
- Open the incubator lid and remove all parts included.
- Check the compliance of the operating current as stated on the device with the mains voltage used. If it matches, the device can be closed via the lid and the electricity can be switched on. The device will start heating to the temperature, which is analogously shown on the system switchboard.
- Run the incubators for at least 24 hours without any eggs inside and get accustomed to the incubator functions. Make sure that all parameters can be adjusted without a problem and familiarise how to change settings, such as temperature alarm (see paragraph “**Display, function buttons and basic settings**”).
- Check the individual values by means of an additional thermometer and hygrometer. If necessary, calibrate the values. Test how being able to keep the desired air humidity at the right level/what amount of water is required to stay in the desired range.
- If the incubator works without a problem, and you are accustomed with the functions, unplug the incubator and clean it on the inside and the outside with a suitable disinfectant.

Display, function buttons, and basic settings



On the control panel right outer corner there is the connection for the electricity plug. It is important to push the plug in well to allow the incubator to function properly. As soon as the plug is connected, the incubator can be turned on with the “on/off” button (6).

Besides the displays (1–3), there are four other buttons (4, 5, 7, 8), with which the incubator is operated (see “Function buttons description”) and a small lamp (9), that is switched on when you are modifying parameters.

Display ...	shows ...
1	the air humidity in %.
2	the temperature in degrees Celsius.
3	the day.

Function buttons description

The incubator has four buttons (4, 5, 7, 8) which are required for the incubator operation. The buttons and their possible combinations will be explained in the following paragraph. Before operating the incubator, ensure that it is properly plugged into the according area.

From the upper part on the left to the lower part on the right, there are the following function buttons:

- 4: “Set”
- 5: “Up” / “+”
- 6: “On/off”
- 7: “Reset”
- 8: “Down” / “-”



1. **“Set” (4): This button allows to set the basic temperature of the incubator.**
 - Press the button once: adjusting the basic temperature (parameter ID: PP).
 - By selecting the “+” and “-” button, you can set the desired temperature, pressing the “set” button again will save the entered value.

2. **Holding “set” (4) longer leads you to the menu for parameters fine adjustments (see table 1).**
 - The display will show the individual parameter, shown with a letter combination (parameter ID).
 - With the buttons “+” and “-”, you can choose between the individual parameters.
 - If you wish to adjust the parameters, press the button “set”, then the values stated can be altered with the “+” and “-” buttons.
 - Pressing the “set” button again saves the change.
 - For every new adjustment, you will must enter the fine adjustment menu again by pressing the “set” button longer.

Finer parameters	Parameter ID	Adjustment range	Standard setting	Note
Increasing temperature fluctuation alarm	AH	1–10 °C	1,0 °C	This setting can be chosen to have an alarm sound if a temperature above the setting is reached. After having set the parameter “PP” to the value, e.g., 38 °C, and wishing to have the alarm set for 40 °C, you need to set the parameter “AH” to 2.
Decreasing temperature fluctuation alarm	AL	1–10 °C	1,0 °C	This setting can be chosen to have an alarm sound if a temperature below the setting is reached. After having set the parameter “PP” to the value, e.g., 38 °C, and wishing to have the alarm set for 33 °C, you need to set the parameter “AL” to 5.
Heating stop	HS	20–80 °C	40 °C	Note that the heating will be turned off if the temperature adjusted will be reached; nevertheless, there will be additional heating, which may lead to a temperature a little bit higher in the incubator interior. For example, 38 °C may be reached if the heating is stopped at 37,8 °C. If you wish to prevent that, the heating stop temperature must be set to a minor value.
Heating start	LS	0–60 °C	15 °C	
Calibration	CA	0–10	0,0	Measure with an additional thermometer and match it according to the deviation.
Adjustment air humidity wanted	AS	0–100 %	65 %	An alarm will sound if the air humidity differs from the value set.

Table 1: Adjustment “Set” button, parameters fine adjustments

3. **“Reset” button: will reset all values to factory settings; you will hear a beeping sound. This is the only possibility to reset the number of the days to 0.**

Troubleshooting (technical problems)

#	Problem	Possible reason	Measures
1	Display has a loose contact/ does not shown anything	(a) Plug not connected properly to incubator	(a) Check plug and re-plug it into incubator.
		(b) Plug not properly connected to socket	(b) Reconnect plug to socket and check seat.
		(c) Too low a voltage	(c) Connect incubator to another socket.
		(d) Damaged cable	(d) Exchange electricity cable.
		(e) Loose contact in display	(e) Check if connection pieces are loose. (e) Exchange display.
2	Display does not show any numbers but only same letter	Temperature sensor broken	Exchange sensor.
3	When turning incubator on, fuse blows every time	Short circuit due to defective vent	Replace incubator.

Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WiITec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company WiITec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).

The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.



Material recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities, or the store where you purchased the article.

Address:
WiITec Wildanger Technik GmbH
Königsbenden 12 / 28
D-52249 Eschweiler

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