

# **Maxi** **24** ADVANCE

Egg Incubator

**Brinsea**  
Incubation Specialists

## Operating Manual



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**Read the instructions before use!**



**Do not cover!**

**This appliance is only to be used with the power supply unit provided with the appliance.**

**Damaged appliances must not be used.**

**The appliance, its power supply unit and its supply cord must be placed in an indoor area not subject to splashes of water or wet conditions and protected from or out of reach of animals.**

**Repairs must be carried out only by a suitably qualified person.**

**This appliance must not be used, cleaned or maintained by children or persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge without supervision. Children must not play with the appliance.**

**Disconnect the incubator from the mains power supply during cleaning. Ensure that all electrical parts are kept dry.**

Please read these instructions carefully before setting up your incubator to achieve best results and keep these instructions safe for future reference.

This document includes recommended procedures for successful hatching but incubation involves the control and manipulation of a large number of factors and in certain circumstances different procedures may be necessary.

For more detailed information on all aspects of egg incubation including helpful advice on getting best results please visit our website at [www.brinsea.co.uk](http://www.brinsea.co.uk).

Your incubator is designed to allow the user to vary the incubation conditions to suit a wide range of species in different ambient conditions and the specific set-up for every situation is beyond the scope of these instructions.

For more information on incubation and hatching please download our FREE Incubation Handbook: [www.brinsea.co.uk/incubationhandbook](http://www.brinsea.co.uk/incubationhandbook), for more species specific advice a range of publications can be found at: [www.brinsea.co.uk/books](http://www.brinsea.co.uk/books).

To register your new Brinsea product please visit [www.brinsea.co.uk](http://www.brinsea.co.uk) within 30 days of purchase and follow the link on the home page to qualify for your free 3 year guarantee. Sign up for the Brinsea Newsletter to receive the latest news and information.

**Record your appliance serial number here:** \_\_\_\_\_ 2

# **Maxi 24** ADVANCE

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# Maxi 24 ADVANCE

## 1 SETTING UP YOUR INCUBATOR

### UNPACKING & PART QUANTITIES

Your incubator has been supplied in protective packaging. Please remove all tape, strapping and packing from the incubator and parts. Retain the carton and packing materials to enable the unit to be repacked.

**Check that your electrical supply matches that marked on the power supply unit.**

The diagram shows all the parts that have been supplied to you. Ensure you have the correct quantities of each part. If there are any parts damaged or missing please contact your retailer or Brinsea Products (at the address at the end of the document). **Damaged appliances must not be used.**

1: Top

2: Water Pot Guard

3: Egg Quadrants for 24 hen eggs (x4)

4: Base

5: Hatching Mat

6: Egg Quadrants for 12 duck eggs (x4)

7: Power Supply Unit (not shown in diagram)

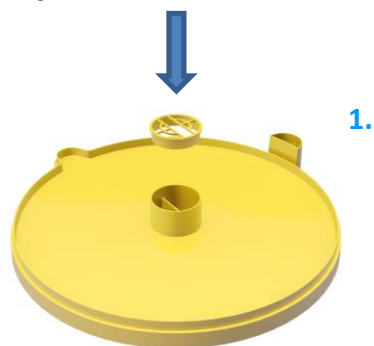


# Maxi 24 ADVANCE

## 1 SETTING UP YOUR INCUBATOR

### ASSEMBLY

**1:** Fit the water pot guard to prevent chicks from drowning.

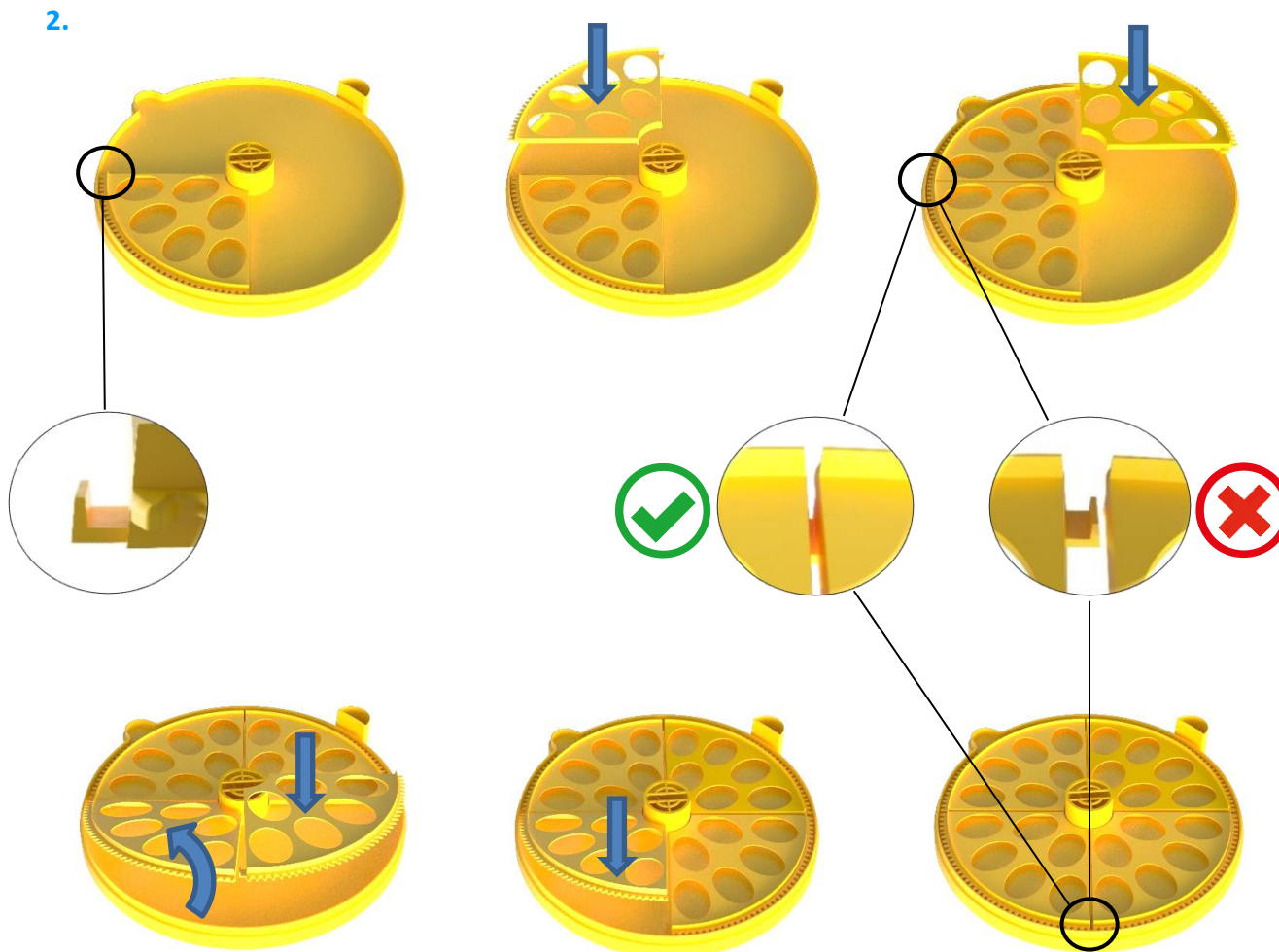


**2:** Place the egg quadrants in the base of the incubator. Ensure they are the correct way up and are locked together as shown.

**3:** Place the top onto the base. Check the top fits flush all the way around the base edge.



**2.**





# Maxi 24 ADVANCE

## 1 SETTING UP YOUR INCUBATOR

### LOCATION AND INSTALLATION

Your incubator will give best results in a heated room free from wide temperature variations and with generous ventilation – particularly if several incubators are running at the same time.

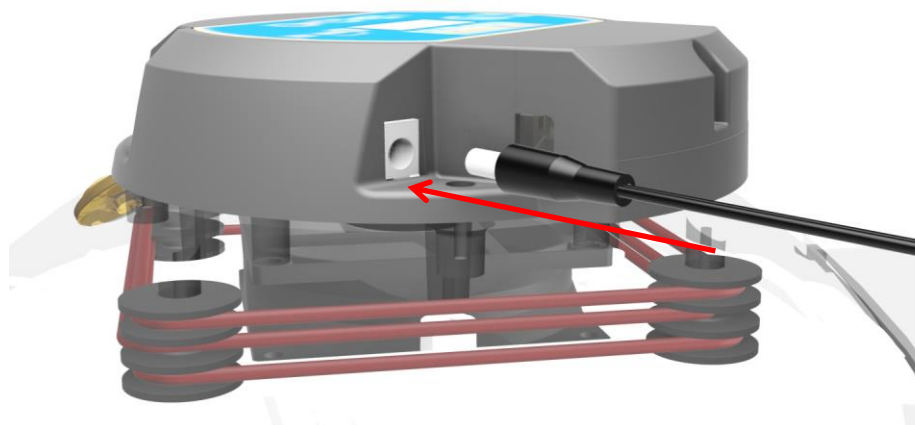
Ensure that the room temperature cannot drop on a cold night. Ideally thermostatically control the room at between 20 and 25°C (68 and 77°F). Never allow the room temperature to drop below 17°C (63°F).

Make sure that the incubator cannot be exposed to direct sunlight and is used on a flat, level surfaced worktop or table, not on the floor.

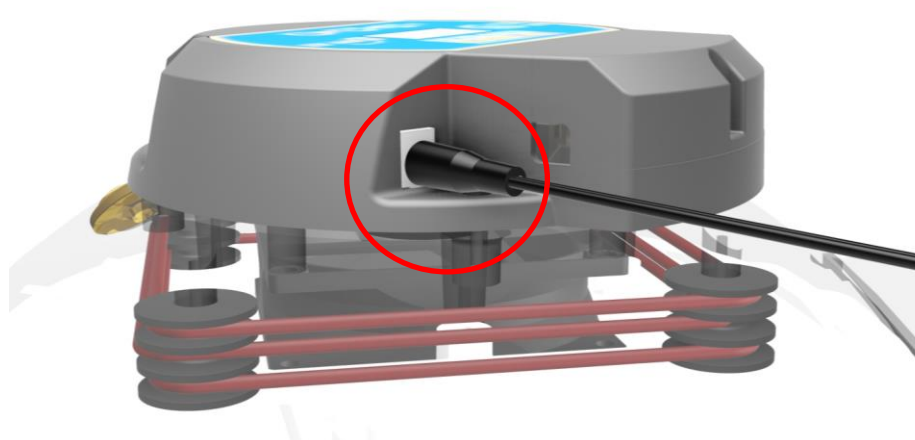
Connect the mains power cable to the power supply unit and connect the power supply unit cable to the incubator lid. Ensure each connector is pushed fully home in its socket.

**Only use the power supply unit supplied with the product. Use of a different power supply may cause a hazard and will invalidate any guarantee.**

1.



2.

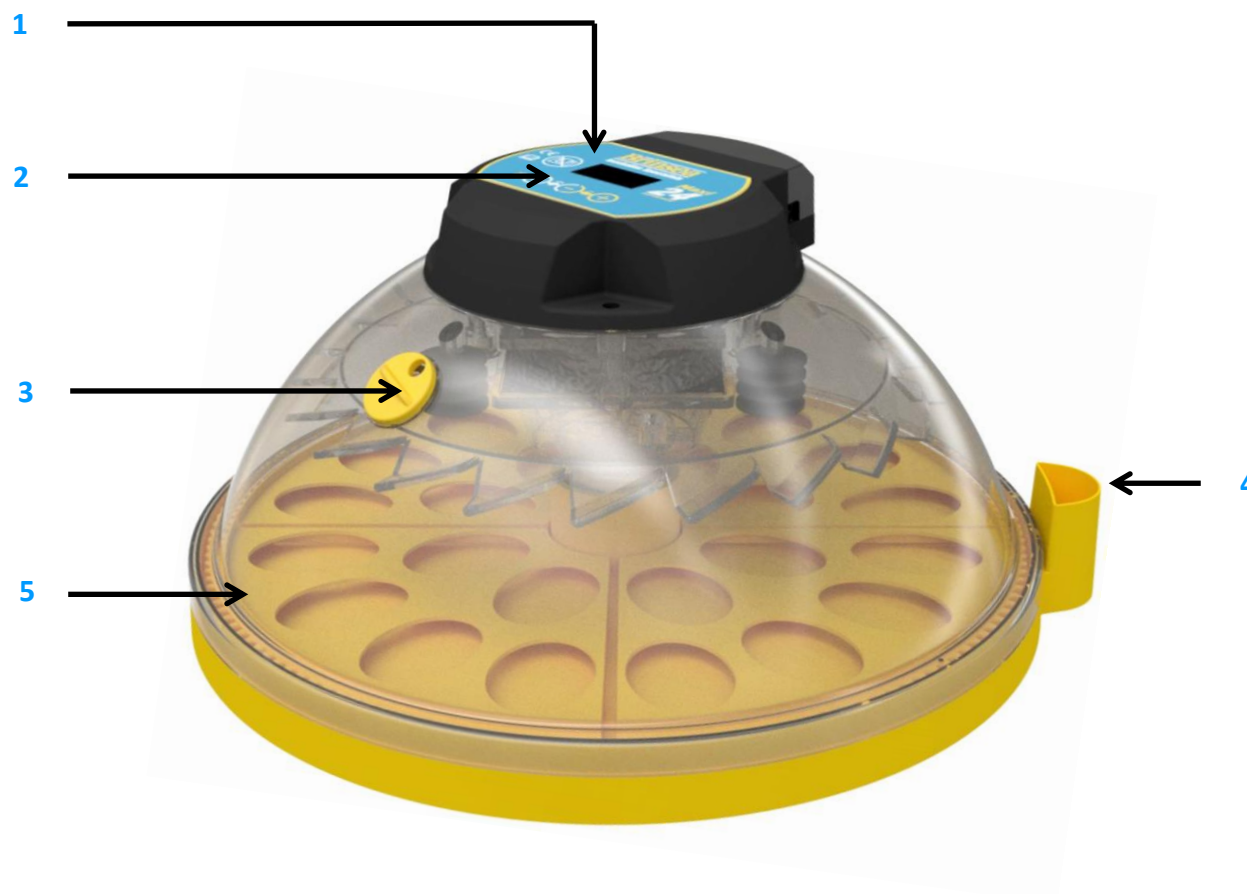


# **Maxi 24** ADVANCE

## 2 PRODUCT INTRODUCTION

### FUNCTIONAL FEATURES

- 1: Digital Display
- 2: Control Buttons
- 3: Adjustable Air Vent
- 4: External Fill Point
- 5: Egg Quadrants



# Maxi 24 ADVANCE

## 3 SETTINGS

### CONTROL MENU

The diagram on the right illustrates how to navigate through the control menu. Look at the key below to understand what each button does when pressed.



Press both buttons to unlock the menu.



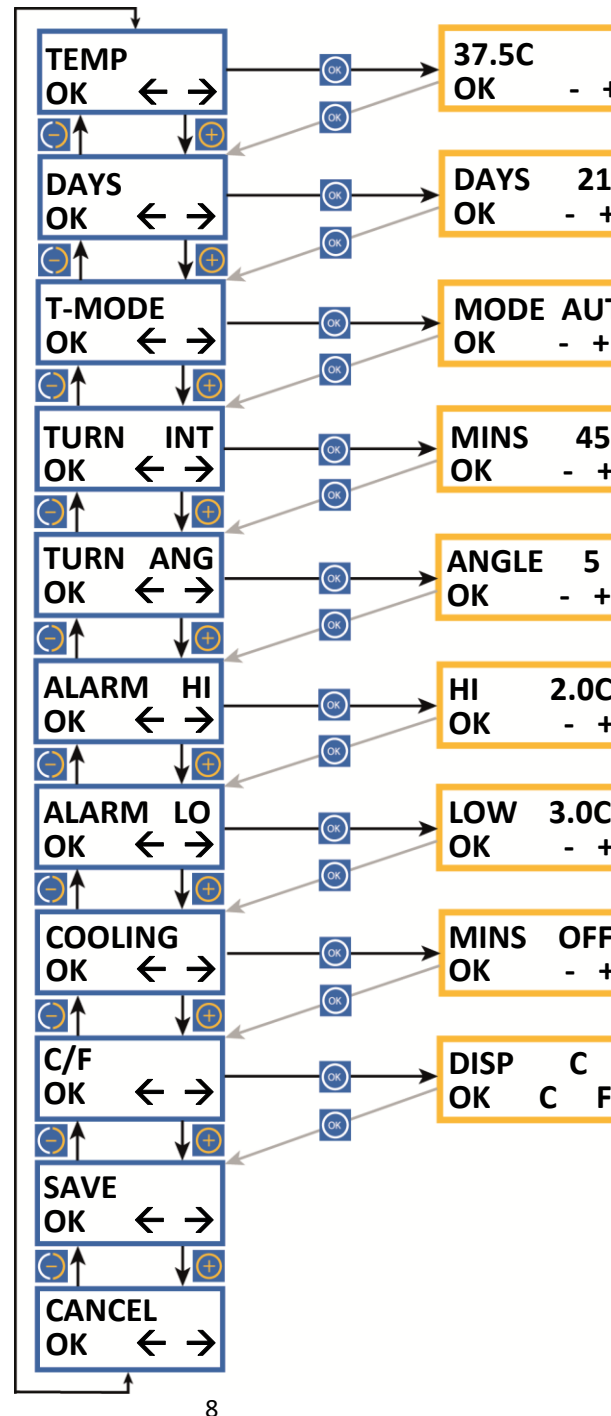
Select the option / return to the menu.



Go forward one screen / increase the value / display in Celsius.



Go back one screen / decrease the value / display in Fahrenheit.



#### INCUBATION TEMPERATURE

Range 20.0 – 40.0°C (68.0 – 104.0°F).  
Default 37.5°C (99.5°F). See section 5.

#### REMAINING DAYS

The number of days left until the eggs are due to hatch.  
Must be set for each new batch. Range 40 - 0.

#### TURNING MODE

Switches the turning system to: on, automatic or off.  
Default: automatic (AUT).

#### TURNING INTERVAL

Sets the delay between turns.  
Range 15 – 180 minutes.  
Default 45 minutes.

#### TURNING ANGLE

Sets the angle of egg turning by how long the motor runs.  
Range 1 – 20 seconds. Default 5 seconds. See section 7.

#### HIGH TEMPERATURE ALARM

Range 1.0 – 5.0°C (1.8 – 9.0°F) above set incubation temperature.  
Default 2.0°C (3.6°F). See section 4.

#### LOW TEMPERATURE ALARM

Range 1.0 – 5.0°C (1.8 – 9.0°F) below set incubation temperature.  
Default 3.0°C (5.4°F). See section 4.

#### PERIODIC INCUBATION COOLING

Switches heater off for a timed period once every 24 hours. **Do not use before day 7 of incubation or whilst hatching.**  
Range 10 – 360 minutes. Default - OFF. See section 8.

#### CELSIUS / FAHRENHEIT DISPLAY

Switches all temperature figures between °C and °F.  
Default °C. See section 5.

#### SAVE

All changes are saved. Return to normal operation screen.

#### CANCEL

All changes are ignored. Return to normal operation screen.



# Maxi 24 ADVANCE

## 4 DISPLAY

### DIGITAL CONTROL SYSTEM

The Maxi 24 Advance control system utilises a highly accurate, individually calibrated sensor for temperature. Be cautious of low cost analogue or digital thermometers when comparing them with the incubator display reading.

#### Example settings for poultry:

**Temperature:** 37.5°C

**Humidity:** Fill one side of the central water pot, set vent to minimum

**Turning interval:** 45 minutes (turn off from day 19 and remove egg quadrants)

**Turning Angle:** 7 seconds

**Cooling:** OFF

(FIG 1)

**T\*37.5C**  
**DAY:19 P/**

**Normal Operation** – Temperature, number of days remaining until the hatch is due and turn system status are continuously displayed.

- The asterisk “\*” adjacent to the temperature reading shows when the heater power is on. When warming the asterisk will be continuously on, once warmed up the asterisk will slowly flash as the heater is pulsed to maintain the correct temperature. When reducing the temperature setting the asterisk may go off, this is normal.
- During periodic incubation cooling (see section 8) the asterisk will be replaced by an arrow: “↓”.
- If turning is switched off an “O” flashes at the corner of the display.
- If turning is switched on a line “/” symbol rotates at the corner of the display.

**Changing Settings** – The Control Menu allows the various settings to be modified and saved. All settings are retained in the event of a power cut.

- To access the Control Menu press the + and – buttons simultaneously to unlock the display. For full details of menu settings please refer to the contents on page 3 and view the relevant sections.

**Power Loss Display (FIG 1)** -- If power has been interrupted due to a power cut (or when first switching on) a “P” is shown flashing in the corner of the display. Press OK for 2 or more seconds to clear the indicator. If the reason for the power loss is not known check the power cable connections are secure.

- Once the “P” indicator has been cleared, it is advisable to candle eggs a number of times to check for losses.

## Maxi 24 ADVANCE

### 4 DISPLAY

(FIG 2)

**T\*39.8C**  
**DAY:19 H/**

(FIG 3)

**T\*32.1C**  
**DAY:19 L/**

(FIG 4)

**T\*37.5C**  
**-RM /**

(FIG 5)

**T\*37.5C**  
**+RM /**

**High Temperature Alarm Display (FIG 2)** – If the measured temperature inside the incubator goes up by more than the figure in the ALARM HI screen, the alarm will sound immediately and “H” will be displayed. Press OK to silence the alarm for 30 minutes.

- If the high temperature problem rectifies itself the “H” remains on the display to show this has happened. Press OK to clear the indicator. Check the incubator is not (and has not been) in direct sunlight or too near a heat source such as a room heater. It is advisable to candle eggs a number of times after this event to check for losses.

**Low Temperature Alarm Display (FIG 3)** – If the measured temperature inside the incubator goes down by more than the figure in the ALARM LO screen, after 60 minutes “L” will be displayed and the alarm will sound. Press OK to silence the alarm for 30 minutes.

- If the low temperature problem rectifies itself the “L” remains on the display to show this has happened. Press OK to clear the indicator. Check the incubator is not (and has not been) in a cold draught or that the room temperature has dropped significantly. It is advisable to candle eggs a number of times after this event to check for losses.

**Low Room Temperature Alarm (FIG 4)** – If the calculated room temperature remains too low for optimum results for more than 1 hour a warning is displayed “-RM” and an alarm will sound. Press OK to silence the alarm for 30 minutes.

- If the low temperature problem rectifies itself the “-RM” remains on the display to show this has happened. Press OK to clear the indicator.
- Check the incubator is not (and has not been) in a cold draught or that the room temperature has not dropped significantly. It is advisable to candle eggs a number of times after this event to check for losses.

**High Room Temperature Alarm (FIG 5)** – If the calculated room temperature remains too high for optimum results for more than 1 hour a warning is displayed “+RM” and an alarm will sound. Press OK to silence the alarm for 30 minutes.

- If the high temperature problem rectifies itself the “+RM” remains on the display to show this has happened. Press OK to clear the indicator.
- Check the incubator is not (and has not been) in direct sunlight or too near a heat source such as a room heater. The eggs themselves create significant metabolic heating at later stages of incubation and may contribute to this if room temperature is high. It is advisable to candle eggs a number of times after this event to check for losses.

# Maxi 24 ADVANCE

## 5 TEMPERATURE

### SETTING THE TEMPERATURE



1. Press the - and + buttons simultaneously to unlock the Main Menu.



2. Press OK to select the temperature screen and adjust as necessary using the + and – buttons.



3. Press OK to return to the Main Menu and then scroll down to SAVE. Press OK to save the changes.

When reducing temperature the asterisk may go out while the incubator cools – this is normal. Adjust temperature with care – small differences have large effects on hatching performance.

### CHANGING TO FAHRENHEIT



1. Press the - and + buttons simultaneously to unlock the Main Menu.



2. Scroll to the C/F option and press OK to select the C/F display screen.



3. Press the + button to select °F or the – button to select °C.



4. Press OK to return to the Main Menu and then scroll down to save. Press OK to save the changes.

**Please Note:** Your incubator will be factory set for hen eggs, you may wish to adjust the temperature in the menu to suit the types of eggs you are incubating.

As the incubator warms up and approaches its control setting the 'heater on' asterisk "\*" will change from continuously on to flashing. Allow the incubator to stabilise for at least an hour before adjusting the temperature.

	Recommended temperatures:		Typical incubation period:
Hens	37.4 – 37.6°C	99.3 – 99.6°F	21 days
Pheasant	37.6 – 37.8°C	99.6 – 100.0°F	23-27 days
Quail	37.6 – 37.8°C	99.6 – 100.0°F	16-23 days
Ducks	37.4 – 37.6°C	99.3 – 99.6°F	28 days
<b>Parrots:</b>			
Amazons	36.8 – 37.0°C	98.3 – 98.6°F	24-29 days
Macaws	36.8 – 37.0°C	98.3 – 98.6°F	26-28 days
Love birds	36.8 – 37.0°C	98.3 – 98.6°F	22-24 days
African Grey	36.8 – 37.0°C	98.3 – 98.6°F	28 days
Eclectus	36.8 – 37.0°C	98.3 – 98.6°F	28 days

- Developing embryos are fairly tolerant of short term temperature drops and the user need not be concerned about cooling that occurs when inspecting eggs. Temperatures above ideal can quickly have a serious detrimental effect on hatch rates and must be avoided.
- The Maxi 24 Advance has a built-in temperature alarm which warns of high or low temperatures. See section 4 for details.

# Maxi 24 ADVANCE

## 6 HUMIDITY & VENTILATION

### UNDERSTANDING HUMIDITY

Short term variations in humidity are not important. The average humidity over the incubation period needs to be near optimum to achieve the ideal weight loss.

High humidity for the day or two of hatching is also important. Beware chronic, excessive humidity.

#### Typical Humidity:

Generally accepted incubation RH levels for species groups:

<b>During incubation:</b>	<b>Poultry</b>	<b>40-50% RH</b>
	<b>Waterfowl</b>	<b>45-55% RH</b>
<b>Hatching:</b>	<b>All species</b>	<b>65% RH or more</b>

#### Typical Weight Loss:

Typical ideal weight losses for species groups:

<b>Poultry</b>	<b>13%</b>
<b>Waterfowl</b>	<b>14%</b>

For more specific information on particular species' requirements check the relevant literature.

### CONTROLLING HUMIDITY

Two factors affect incubation humidity: water evaporation within the cabinet (from eggs as well as from additional water) and levels of ventilation. The water content of the air being drawn through the incubator will also have an effect.

There are two methods available to bird breeders to achieve correct humidity levels:

**1:** As a general guide for poultry/game/waterfowl, maintain water in one of the two halves of the central water pot from the time eggs are set until 2 days before hatching is due - the depth of water doesn't matter.

For all species fill both halves of the water pot for the last two days of incubation. Higher humidity levels are needed for hatching to prevent membranes drying too quickly. Ensure the water pot guard is fitted to prevent chicks drowning.

The above guidelines make no provision for different ambient conditions and are necessarily rather generalised but they are simple and often effective.

**2:** Monitor egg weight loss (which varies as a direct result of humidity) and correct them against published weight loss figures for the species. This is the most reliable method and is recommended – particularly where poor hatch rates are experienced or if eggs of high value are being incubated.

Eggs lose moisture through their shells and the rate of evaporation depends on the humidity levels around the eggs and the shell porosity. During incubation eggs need to lose a fixed amount of water which corresponds to a loss in weight of around 13-16% depending on species. By weighing eggs periodically during incubation it is possible to monitor and, if necessary, correct humidity levels to achieve the correct weight loss.

### HATCHING

In all cases the humidity for hatching needs to be high. Because of the short duration involved water/weight loss will not be significantly affected. High humidity is necessary to prevent membranes drying and hardening before the hatch fully emerges. Humidity will naturally increase as the first eggs begin to hatch and internal membranes begin to dry. This effect is in addition to the increased area of water evaporation from the water pots. During hatching the high humidity levels will fall dramatically when the lid is opened and will take some time to build up. Resist the temptation to lift the lid frequently – leave for at least 6 hours between inspections.

For more detailed information on all aspects of egg incubation including helpful advice on getting best results please visit our website at [www.brinsea.co.uk/incubationhandbook](http://www.brinsea.co.uk/incubationhandbook).

# Maxi 24 ADVANCE

## 6 HUMIDITY & VENTILATION

### SETTING THE RELATIVE HUMIDITY LEVEL: USING THE EXTERNAL FILL POINT

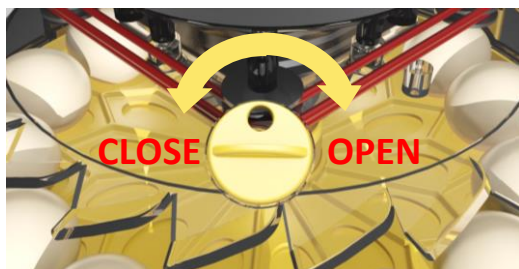
The humidity in the incubator can be adjusted by adding water to one or both halves of the central water pot. (If you want to decrease humidity don't add water).

The Maxi 24 has an external water fill point allowing the water level to be checked and filled up without removing the top of the incubator.

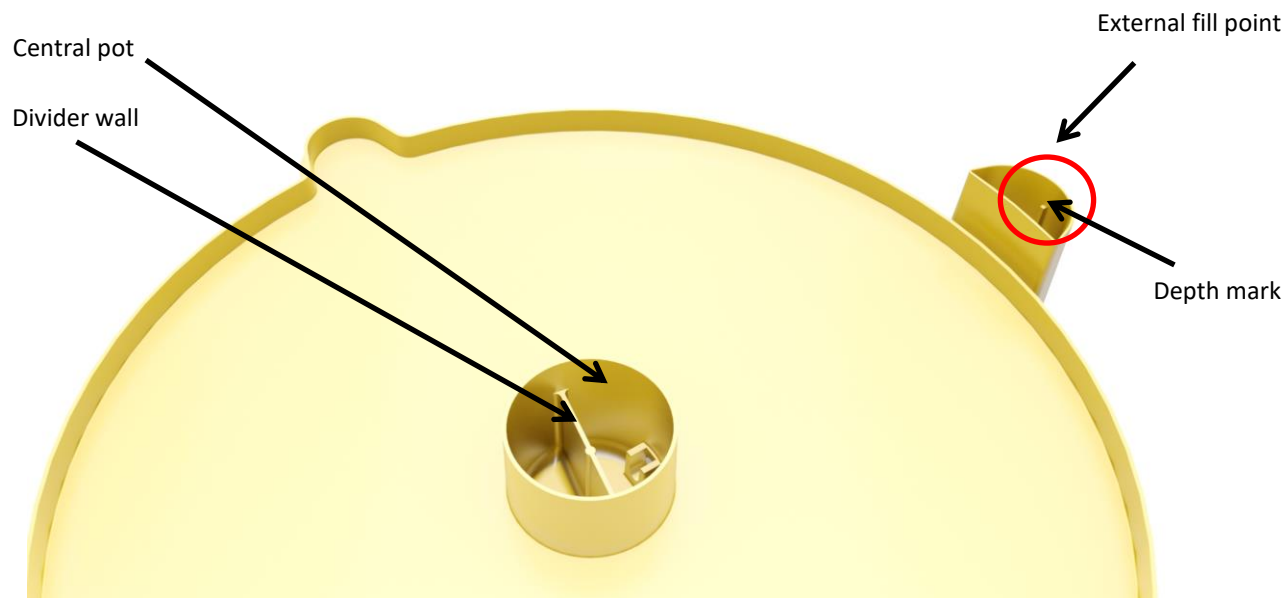
To fill the first half of the water pot, carefully add water to the external fill point. Keep the water level below the depth mark (see picture). The water will flow through the tube and fill one half of the central pot.

To increase humidity further, fill both halves of the central water pot by continuing to add water to the external fill point to above the level of the depth mark. Water will flow through the tube and over the divider wall to fill the second half of the pot. Maintain the water level above the depth mark.

### ADJUSTING THE VENT



Opening and closing the vent: Close the vent to increase humidity or open the vent to decrease humidity.



In practice the minimum and maximum levels of humidity achievable in an incubator depend upon several factors including the ambient conditions in the incubation room. You may need to allow 24 hours for humidity to fully stabilise after making changes.

**If you cannot achieve the relative humidity level required consider these notes:**

#### Humidity will not go low enough

- Open the vent fully to help.
- A lower limit will be determined by the moisture content of the ambient air, particularly in warm humid conditions. This can only be countered by dehumidification of the room air outside the incubator with a proprietary dehumidifier but is rarely a problem in practice.

#### Humidity will not go high enough

- Close the vent to its minimum setting to help. Fit evaporating card strips available from Brinsea or your stockist.

#### Condensation

It is normal for some condensation to occur on the cooler exposed parts of the clear top. This natural phenomenon is not a hazard or a problem for incubation but may indicate the room is cooler than optimum.

# Maxi 24 ADVANCE

## 7 EGGS

### SETTING THE DAY COUNTDOWN

The day countdown may be set to the correct number of days for the particular species of egg being incubated. If the turning system is in automatic mode (see page 15) the eggs will stop being turned 2 days before the eggs are due to hatch. Note that if the eggs have already been incubated by the parent bird the number of days should be reduced accordingly.



1. Press the - and + buttons simultaneously to unlock the Main Menu.



2. Press + to scroll to the DAY countdown option



3. Press OK to select the day countdown screen and adjust as necessary using the + and - buttons e.g. hens 21, ducks 28.



4. Press OK to return to the Main Menu and then scroll down to SAVE. Press OK to save the changes.

### EGG SETTING AND STORING

Ensure that you store eggs in cool, damp conditions. Most species may be safely stored for up to 14 days before serious reductions in hatch rates are likely. Daily turning of stored eggs also helps maintain hatchability.

Cracked, mis-shaped and heavily soiled eggs should be discarded (if possible). It is not recommended that eggs for incubation are washed as this will remove the outer cuticle from the egg as well as the dirt and may leave the egg at greater risk from bacterial contamination. However soiled eggs can add contaminants that are damaging to growing embryos in the egg, so if cleaning is the only option a specialist egg wash solution should be used following the manufacturer's instructions.

**Before setting eggs ensure that the incubator has been running for several hours and has stabilised at the correct temperature.**

The Maxi 24 Advance is designed to accommodate eggs of different sizes. Quail eggs, hen eggs and large duck eggs are accommodated in the egg quadrants provided. Goose eggs and a greater number of quail eggs may be accommodated in alternative egg quadrants for these species (supplied separately). See page 18 for details.

Set the eggs in the pockets of the egg quadrants provided. The eggs need to be set lying flat and most eggs favour being set with their pointed ends facing inwards towards the middle of the egg quadrant. Some experimentation may be required to check which direction gives the most even turning. Very small eggs typically favour being set with their points towards the centre.

Eggs should rest so that their pointed end is down most of the time. This will happen more naturally as the air space gets larger during incubation. If a particular egg is tending to rest point upwards turn it round to face the other way in the pocket on the egg quadrant.

Ensure the eggs are clean around their middle as large pieces of dirt may prevent them turning correctly.

Switch the turning system on (see page 15). The turning system will alternately roll the eggs left and right. A revolving line symbol “/” should be shown in the corner of the display.

Once the eggs have been set the temperature must not be adjusted for 24 hours to allow the eggs to warm. Check the water level every 2 days or so and temperature daily. Candle the eggs after 1/3rd of the incubation period has elapsed to reject clear, infertile eggs. Remember to stop the turning 2 days before the eggs are due to hatch. Turning will stop automatically if the turning mode is set to auto and the correct incubation days are set.



# Maxi 24 ADVANCE

## 7 EGGS

### SETTING THE TURNING OPTIONS



- Press the - and + buttons simultaneously to unlock the Main Menu.



- Press + to scroll to the T-MODE option.



- Press OK to select the turning mode screen and use the + and - buttons to set to ON, AUT or OFF as required.



- Press OK to return to the Main Menu. The TURN INT option will now be displayed. Press OK to select the turn interval screen and use the + and - buttons to set the delay between turns in minutes as required.



- Press OK to return to the Main Menu. The TURN ANG option will be displayed. Press OK to select the turn angle screen and use the + and - buttons to set the turning angle timer as appropriate for the size of the eggs.



- Press OK to return to the Main Menu and then scroll down to SAVE. Press OK to save the changes.



### TURNING EGGS

The Maxi 24 Advance turning system has three modes of operation:

**ON** – The turning system will alternately roll the eggs left and right irrespective of the Day Countdown. A revolving line symbol “/” is shown in the corner of the display.

**AUTO** – The turning system will alternately roll the eggs left and right until the Day Countdown reaches 2. Turning will then automatically be switched to OFF and an “O” will flash in the corner of the display.

**OFF** – The turning system is switched off irrespective of the Day Countdown. This is used for hatching purposes. An “O” will flash in the corner of the display.

The length of time interval between turns may be adjusted and the angle the eggs are turned through may also be adjusted to suit different size eggs. The turning motor runs for a set time and this time (in seconds) can be adjusted to achieve the appropriate turn angle for the eggs.

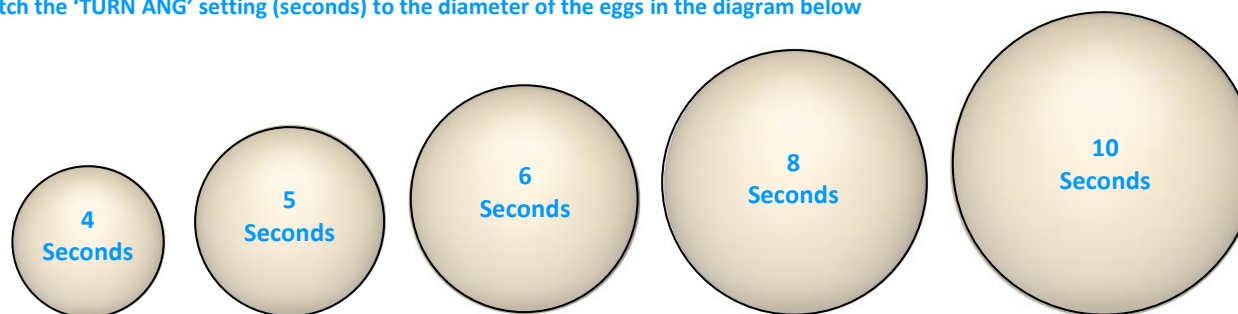
**Larger eggs will require a longer turn to achieve the same angle as smaller ones. Use the chart below for a simple guide. Match the TURN ANG setting to the diameter of the eggs.** This should give a turn angle of between 90 and 120 degrees.

If eggs of mixed sizes are being incubated it will be necessary to compromise the turning angle. In general, if the larger eggs turn through 90 degrees (1/4 of a turn) then the smaller ones may turn through twice this with no problem. Parrot-like species may benefit from larger turns in the first 10 days of incubation.

If eggs are set in both circles of pockets on the egg quadrants the outer circle of eggs will turn through a greater angle. This will not be a problem, adjust the turning angle so that the inner circle of eggs turn through 90 degrees (1/4 of a turn).

**If the turning mode is switched to ON remember to stop the turning 2 days before the eggs are due to hatch.**

**Match the ‘TURN ANG’ setting (seconds) to the diameter of the eggs in the diagram below**



# Maxi 24 ADVANCE

## 8 PERIODIC INCUBATION COOLING

### SETTING THE COOLING PERIOD

The cooling function is not essential. It's an optional feature that may be adjusted for breeders wishing to experiment. The factory default is set to "cooling OFF". **Do not use before day 7 of incubation or whilst hatching.**



1. Press the - and + buttons simultaneously to unlock the Main Menu.



2. Press the + button to scroll to the cooling option.



3. Press OK to select the cooling screen. Use the + and – buttons to select OFF or 10 to 360 minutes of cooling.



4. Press OK to accept the figure and then scroll to SAVE and press OK to save the changes.

### BACKGROUND INFORMATION ON PERIODIC COOLING

The precise details of which days and what cooling period each day should be used for best effect are not known. Brinsea have assessed the available research and suggest that poultry, water fowl and game bird eggs have a 30 minute daily cooling period from day 7 through to 2 days before eggs are due to hatch (the same point that automatic turning would normally be stopped).

**COOLING IS NOT RECOMMENDED FOR PARROTS AND BIRDS OF PREY BECAUSE THE RESULTS OF COOLING HAVEN'T YET BEEN ESTABLISHED.** For further details please visit the Brinsea website at [www.brinsea.co.uk/cooling](http://www.brinsea.co.uk/cooling)

### HOW IT WORKS WITH YOUR INCUBATOR

- The periodic cooling feature turns the incubator's heater and low temperature alarm off for a selectable period but keeps the fan running. After the cooling period is complete the incubator reverts to normal temperature and the alarm is automatically reset.
- Each cooling period starts at approximately the same time each day (24 hours between start times). The first cooling period will start 24 hours after the incubator was last switched on. If there is a power interruption the 24 hour delay starts again.
- During the cooling period the heater asterisk goes off and an arrow "↓" is displayed. When the cooling period ends the asterisk is shown and the incubator warms to incubation temperature. The time taken to return to incubation temperature depends on the room temperature and may take 30 or more minutes.

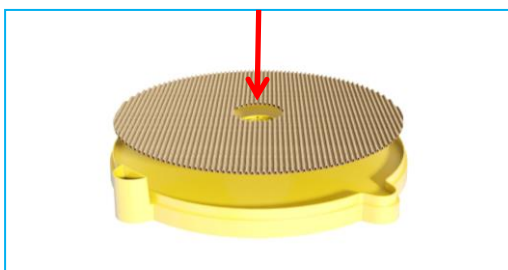
# Maxi 24 ADVANCE

## 9 HATCHING & CLEANING UP

### HATCHING

**1:** If hatching in the Maxi 24, make sure turning is switched to OFF in the control menu two days before the hatch is due.

**2:** Remove the top, take out the egg quadrants and insert the hatching mat into the base two days before the hatch is due. Lay the eggs directly onto the mat. Don't re-use hatching mats. Replacements are available from [brinsea.co.uk](http://brinsea.co.uk), [brinsea.com](http://brinsea.com) or your local stockist (product code 14.902).



**3:** Put the top back on.

Hatching humidity levels need to be high (see section 6 above).

When most eggs have hatched (12 to 48 hours after the first egg hatches) remove the hatchlings to a brooder. The Brinsea EcoGlow 600 and 1200 are ideal for poultry and waterfowl etc. The Brinsea TLC-40 and TLC-50 Brooders are recommended for exotics.

During hatching the high humidity levels will fall dramatically when the lid is lifted and will take some time to build up. Resist the temptation to open the incubator frequently – leave for at least 6 hours between inspections.

### CLEANING UP

IMPORTANT:

**DISCONNECT THE INCUBATOR FROM THE MAINS POWER SUPPLY DURING CLEANING.**

**ENSURE THAT ALL ELECTRICAL PARTS ARE KEPT DRY. DO NOT IMMERSE THE INCUBATOR TOP.**

NEVER WASH THE BASE, EGG QUADRANTS, COVERS OR CABINET PARTS IN LIQUIDS OVER 50°C (120°F). DO NOT USE A DISHWASHER TO CLEAN ANY PARTS OF THE INCUBATOR.

Following each hatch in the Maxi 24 Advance remove and wash the egg quadrants and base in a solution of water-based disinfectant (diluted in accordance with the manufacturer's recommendations) and then rinse thoroughly. Use a vacuum cleaner and soft brush to remove dust from the fan guard. Wipe all other internal surfaces with a cloth made damp with the solution and then wipe off with a cloth made damp with clean water. Ensure that the instructions supplied with the fluid are followed.

If a separate hatcher is used the procedure above should still be followed every two months.

The exterior of the incubator may be cleaned with a damp cloth. Avoid allowing any moisture to get inside electrical housings.

Periodically unscrew the four screws retaining the fan guard, remove the cover and soak. Dust and fluff may be removed from the fan and heater cord with a soft brush. USE NO LIQUIDS. DO NOT TURN THE LID OVER AS THE FAN IS NOT FIXED ONCE THE FAN COVER IS REMOVED. The fan must be located on the 4 pegs under the lid with its label facing into the lid before the cover is re-fitted. DO NOT OVER-TIGHTEN THE SCREWS.

ALWAYS CLEAN THE INCUBATOR BEFORE STORAGE AND ENSURE THAT THE UNIT IS TOTALLY DRY INSIDE AND OUT. ALLOW IT TO RUN FOR 24 HOURS WITH NO WATER IN TO ENSURE IT IS THOROUGHLY DRY.

### TROUBLE-SHOOTING AND CALIBRATION

In case of failure first check that the mains power supply is working and that the mains cable connector is fully engaged in the socket on the control enclosure.

The digital temperature and humidity display is individually calibrated during manufacture but may be re-calibrated if required. In the unlikely event that your hatching success makes you doubt the temperature or humidity calibration of your machine please contact your distributor or Brinsea directly at [sales@brinsea.co.uk](mailto:sales@brinsea.co.uk) for further information and advice.

**Maxi 24** ADVANCE  
10 SPECIFICATIONS

**MAXI 24 MAXIMUM SETTING CAPACITIES:**

Egg size	Typical capacity
Quail	40
Pheasant	24
Hen	24
Duck	12
Goose	8

Dimensions:	354mm x 354mm x 165mm
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Weight:	1.7 Kg
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Power Consumption:	
Incubator maximum	40 Watts
(typical average)	24 Watts

Electrical Supply:	100 - 240v, 50/60Hz, 1.3A max.
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**Hen egg quadrants  
(included)  
Capacity 24  
Part number AC06**



**Duck egg quadrants  
(included)  
Capacity 12  
Part number AC03**



**Quail egg quadrants  
(sold separately)  
Capacity 40  
Part number AC10**



**Goose egg quadrants  
(sold separately)  
Capacity 8  
Part number AC02**



Used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product to a designated collection point where it will be accepted free of charge.

Please contact your local authority for further details of your nearest designated collection point.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Brinsea Products Ltd, 32-33 Buckingham Road, Weston Industrial Estate,  
Weston-super-Mare, N. Somerset, BS24 9BG  
Tel: +44 (0) 345 226 0120  
e-mail: [support@brinsea.co.uk](mailto:support@brinsea.co.uk), website: [www.brinsea.co.uk](http://www.brinsea.co.uk)

## Declaration of Conformity

**We:** BRINSEA PRODUCTS LTD.  
32-33 Buckingham Road  
Weston Industrial Estate  
Weston-super-Mare  
North Somerset  
BS24 9BG

Declare under our sole responsibility the products:

### **Egg Incubators:**

Maxi II Eco (Serial numbers AC25x/xxxxxxxx, AC25/xxxxxxxx)  
Maxi 24 Advance (Serial numbers AC261x/xxxxxxxx, AC261/xxxxxxxx)  
Maxi 24 EX (Serial numbers AC271x/xxxxxxxx, AC271/xxxxxxxx)  
Maxi 24 Zoologica (Serial numbers AC28x/xxxxxxxx, AC28/xxxxxxxx)

to which this declaration relates are in conformity with the following UK regulations:

### **Supply of Machinery (Safety) Regulations 2008**

### **Electromagnetic Compatibility Regulations 2016**

### **The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012**

The relevant sections of the following Standards have been used:

**BS EN 60335-1:2012+A15:2021**  
**BS EN 60335-2-71:2003+A1:2007**  
**BS EN 55014-1:2017+A11:2020**  
**BS EN 55014-2:1997+A2:2008**  
**BS EN 50581:2012**

The technical documentation for the products is available from the above address.

**Authorised Representative:** Ian Pearce, Managing Director

**Signature:**

**Date of Issue:** 19 September 2024

**Place of Issue:** 32-33 Buckingham Road, Weston Industrial Estate, Weston-super-Mare, North Somerset, BS24 9BG, United Kingdom.

## EU Declaration of Conformity

In accordance with European Parliament and Council  
Decision No 768/2008/EC Annex III

### *1. Product model / product:*

Product:	Egg incubators
Model:	Maxi II Eco (Serial Numbers AC25x/xxxxxxxx, AC25/xxxxxxxx) Maxi 24 Advance (Serial Numbers AC261x/xxxxxxxx, AC261/xxxxxxxx) Maxi 24 EX (Serial Numbers AC271x/xxxxxxxx, AC271/xxxxxxxx) Maxi 24 Zoologica (Serial Numbers AC28x/xxxxxxxx, AC28/xxxxxxxx)

### *2. Manufacturer:*

Name:	Brinsea Products Ltd.
Address:	32-33 Buckingham Road, Weston Industrial Estate, Weston-super-Mare, BS24 9BG, England

### *Authorised Representative:*

Name:	Authorised Rep Compliance Ltd.
Address:	Ground Floor, 71 Lower Baggot Street, Dublin, D02 P593, Ireland

### *3. This declaration is issued under the sole responsibility of the manufacturer.*

### *4. Object of the declaration:*

Product:	Maxi II Eco, Maxi 24 Advance, Maxi 24 EX, Maxi 24 Zoologica egg incubators
Specification:	Power supply 230V, Class III appliance 12V dc, 2.2A, capacity 24 eggs.

### *5. The object of the declaration described above is in conformity with the relevant EU harmonisation legislation:*

2006/42/EC	Machinery Directive
2014/30/EU	Electromagnetic Compatibility (EMC)
2011/65/EU	Restriction on the use of certain hazardous substances (RoHS)

### *6. References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:*

EN 60335-1:2012+A15:2021  
EN 60335-2-71:2003+A1:2007  
EN 55014-1:2017+A11:2020  
EN 55014-2:1997+A2:2008  
EN IEC 63000:2018

### *7. The technical documentation for the product is available from the authorised representative at the address above.*

Signed for and on behalf of:	Brinsea Products Ltd.
Place of issue:	Weston-super-Mare
Date of issue:	19 September 2024
Name:	Ian Pearce
Function:	Managing Director
Signature:	