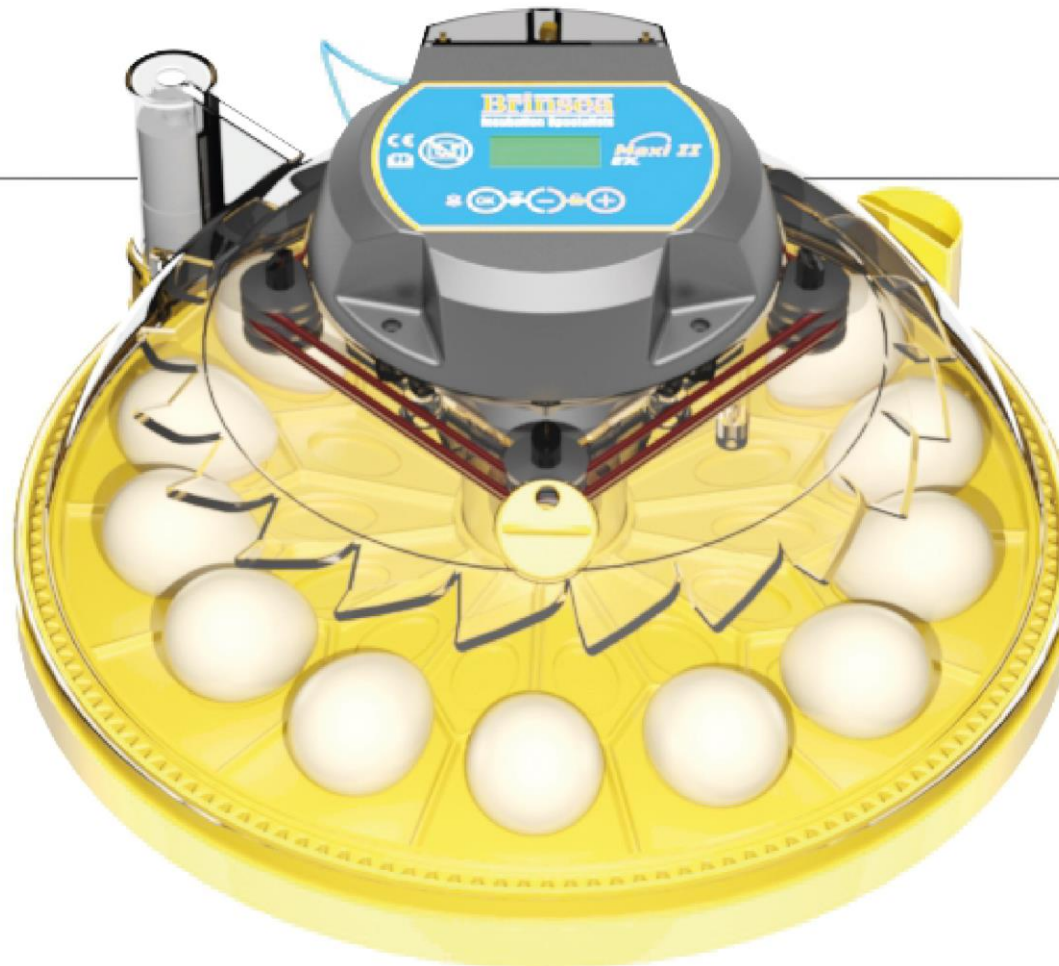


Maxi II EX Egg Incubator
Operating Manual

Brinsea
Incubation Specialists





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.

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, for more species specific advice a range of publications can be found at: www.brinsea.co.uk/books.

To register your new Brinsea product please visit 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: _____

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Maxi II EX

1 SETTING UP YOUR INCUBATOR

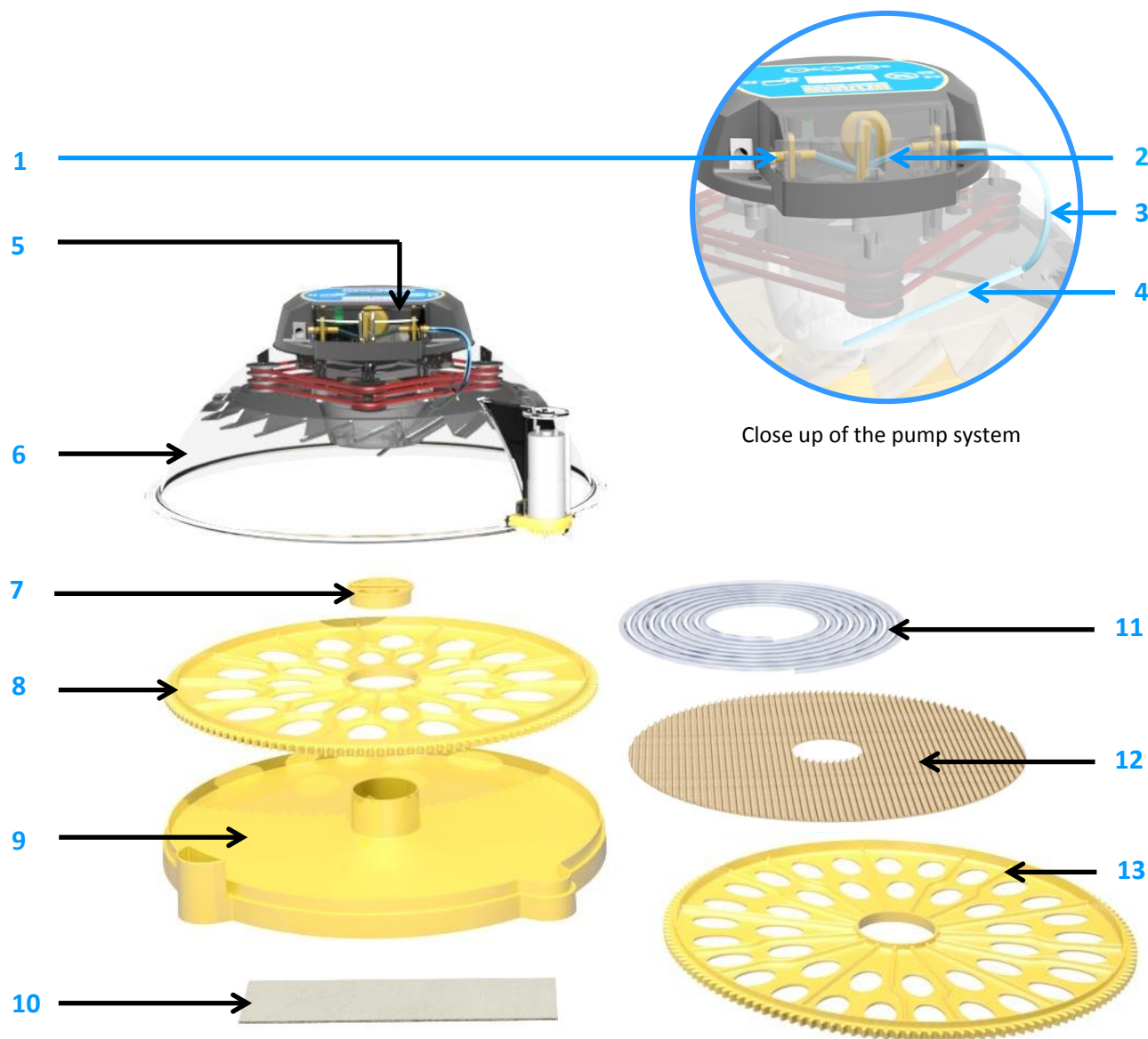
UNPACKING & PART QUANTITIES

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: Pump Connector (2)
- 2: Water Pump Tubing (70mm)
- 3: Flexible Link Tubing (110mm)
- 4: Rigid Water Tubing (127mm)
- 5: Pump Cover
- 6: Top
- 7: Water Pot Guard
- 8: Standard Egg Disc
- 9: Base
- 10: Water Evaporation Card (2 Sheets)
- 11: Water Tubing (3m)
- 12: Hatching Mat
- 13: Small Egg Disc
- 14: Power Supply Unit and Lead (not shown in diagram)



Close up of the pump system

ASSEMBLY

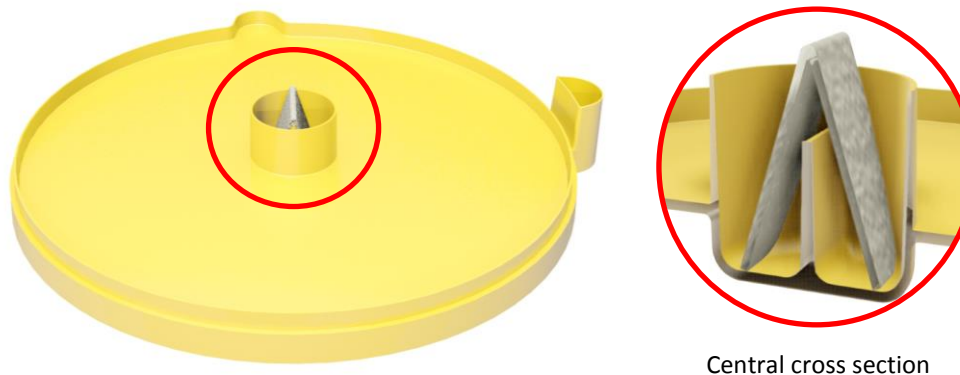
1: Cut a piece of the evaporating card to approximately 40mm wide (1 3/4") by 100mm long (5") and fold it in half lengthwise. Once folded, place the evaporating card over the central rib in the water pot ensuring the card is touching the bottom.

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

Ensure the evaporation card fits through the slot in the water pot guard to make sure it stays in position (as shown in image 2).

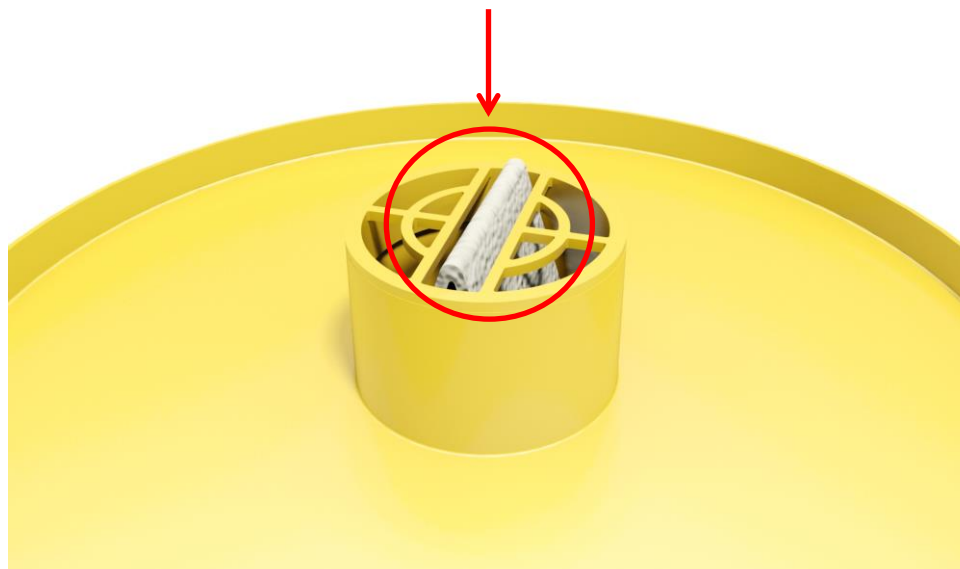
Do not add any water to the water pot.

1.



Central cross section

2.

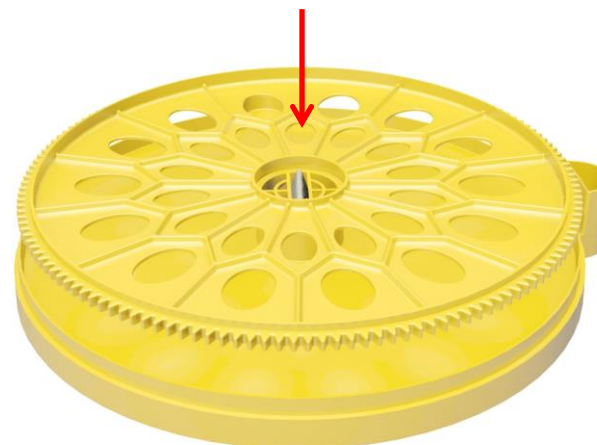


ASSEMBLY

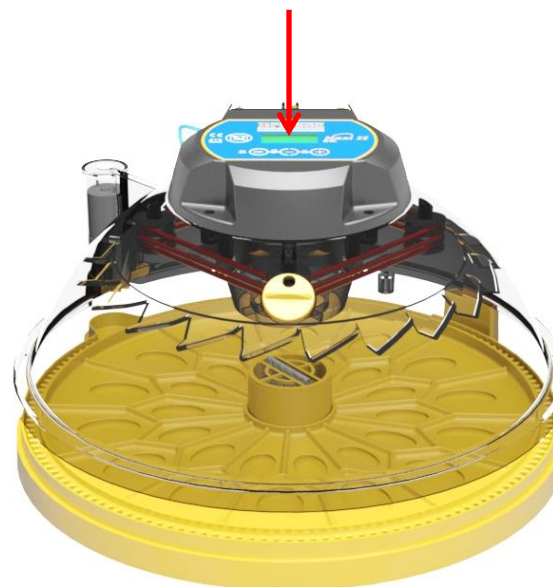
3: Place the desired egg disc in the base of the incubator, ribbed side up.

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

3.



4.



ASSEMBLY

5: Find a suitable water container (0.5 to 1.0L). Place next to the incubator.

IMPORTANT: Do not place the water container on top of the incubator or higher than the incubator. This is to prevent the water siphoning through and flooding the incubator. The water container is best placed next to the incubator on the same surface.

Please ensure the incubator is used on a water resistant surface.



Maxi II EX

1 SETTING UP YOUR INCUBATOR

PUMP SETUP

The Maxi II EX incubator uses a peristaltic water metering pump to automatically control the relative humidity of the air in the egg chamber. Pumped water is fed to the evaporation card where warm air is drawn over the surface to effectively evaporate all the water (none should collect under normal conditions). This humidified air is then mixed within the heating chamber so that the air drawn across the eggs is of uniform humidity and temperature.

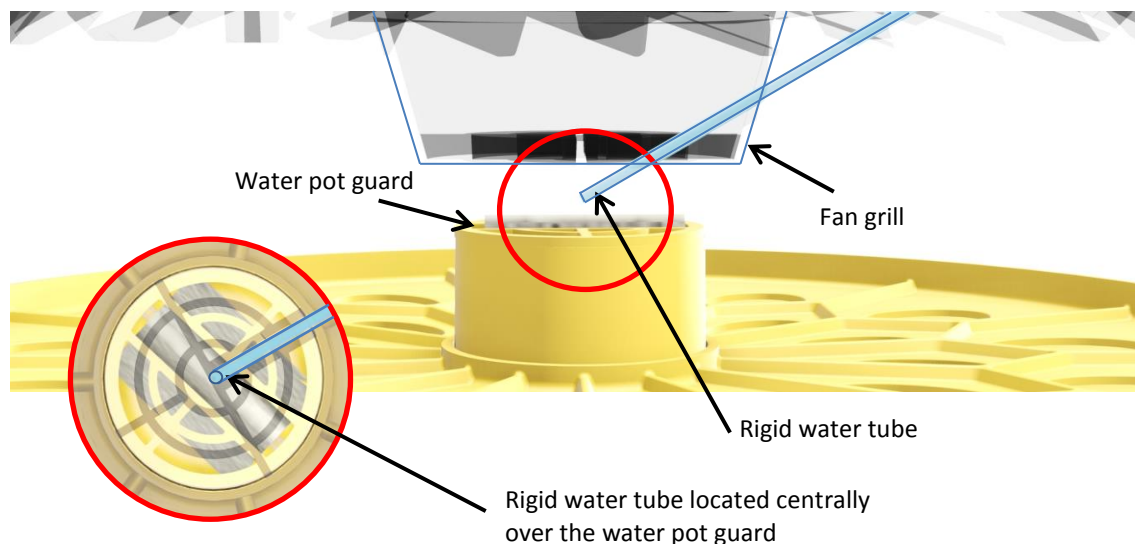
The pump is supplied with a water pump tube (70mm long), a flexible link tube (110mm), a rigid water tube (127mm) and two pump connectors that are fitted at each end of the water pump tube. See page 4 for full pump system diagram. The water pump system is supplied part assembled, you only need to check everything is in the correct position and wrap the water pump tube around the capstan using the steps below.

1: Make sure the rigid tube is in the correct position with the bottom end protruding through the slot in the fan grill and locating centrally above the water pot guard. Ensure the water will drip onto the evaporation card as shown.

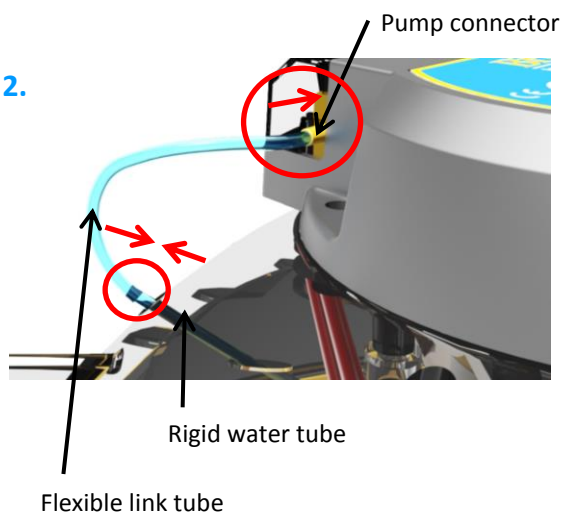
2: Ensure that the flexible link tube is attached to the rigid water tube at one end and the pump connector at the other end.

3: Cut a length of silicone water tubing to connect the pump to the water container. Leave enough spare so that the incubator top can be easily removed and placed to one side. Attach one end of the water container tube onto the pump connector as shown and feed the other end of the tube into your water container.

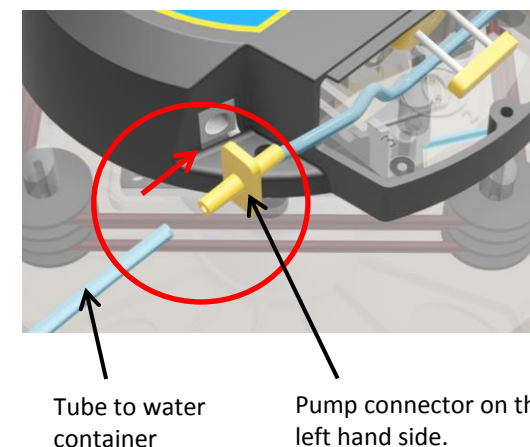
1.



2.



3.

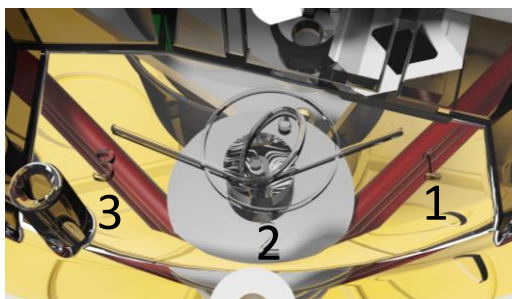


Maxi II EX

1 SETTING UP YOUR INCUBATOR

PUMP SETUP

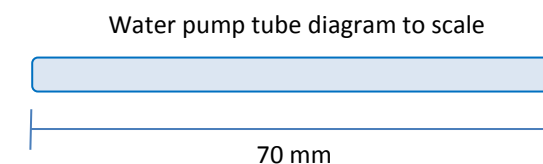
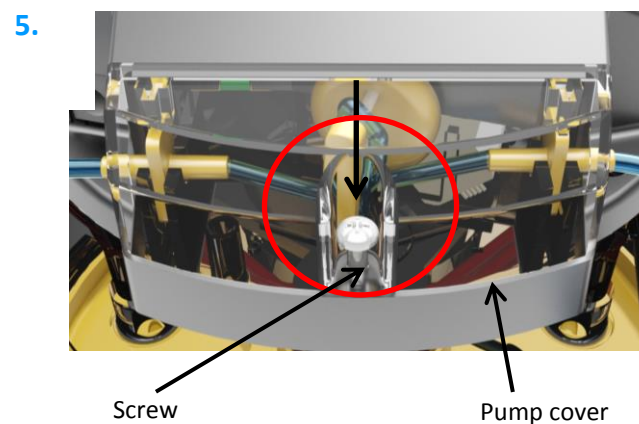
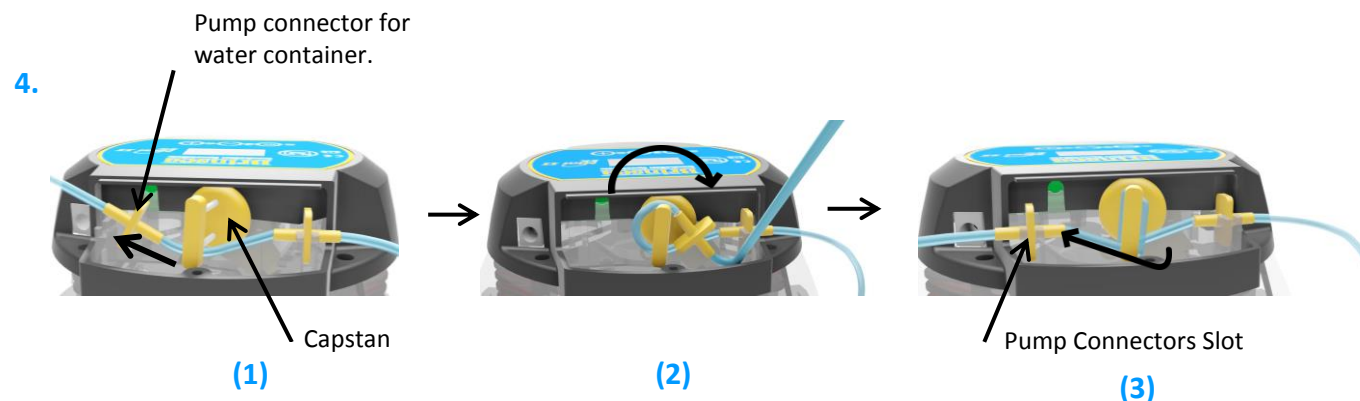
4: Make sure the first pump connector is still in its slot as shown. Pull the other pump connector (for the water container) and pump tube down under the capstan, wrap around and pull over into the pump connector's slot. Follow the diagram on the incubator, 1 – 2 – 3.



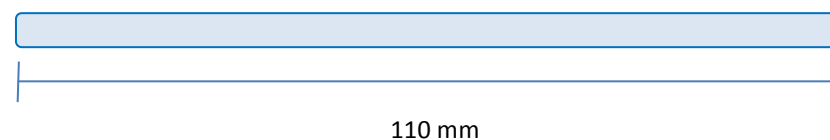
5: Fit the pump cover in place and gently tighten the screw.

Check the water level in your water container regularly.

Please check the condition of the tubes after each use. The peristaltic pump will need to have its water pump tube replaced about every 3 months. Cut a length of tube to 70mm. Remove the connectors and pull off the old tube. Replace with the new tube, avoiding twists. Use the diagram on the product to assist and follow the instructions above.



Flexible link tube diagram to scale



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.

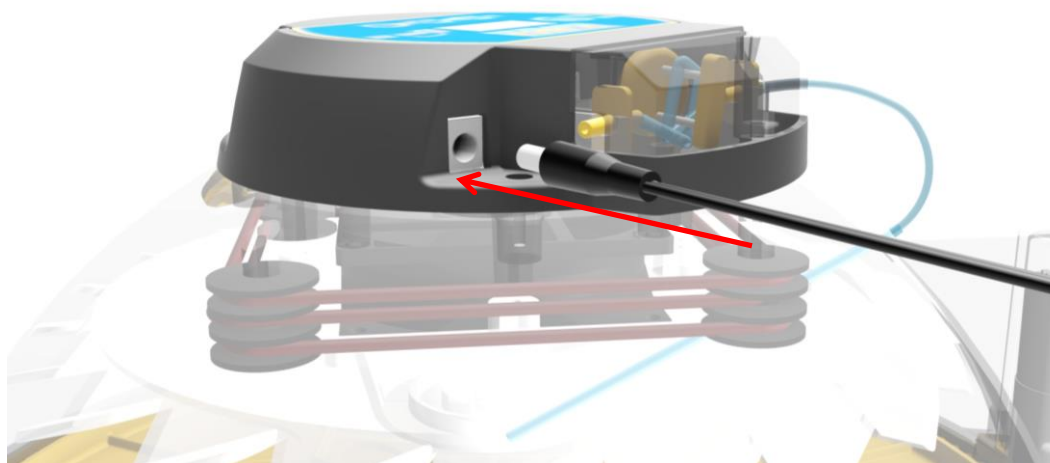
Ensure that the room temperature cannot drop on a cold night. Ideally thermostatically control the room at between 20 and 25°C (68 and 77°F). Never allow the room temperature to drop below 17°C (63°F).

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.

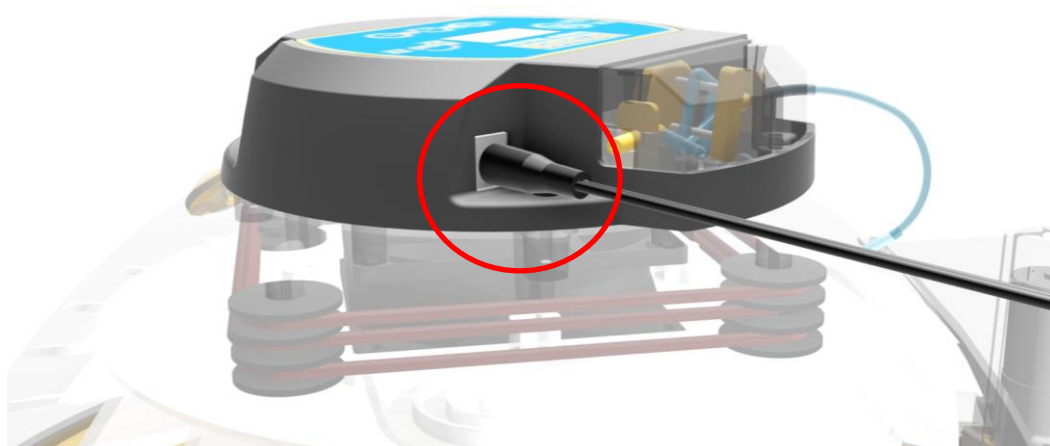
Connect the mains power cable to the power supply unit and connect the power supply unit cable to the incubator lid. Ensure each connector is pushed fully home in its socket.

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.



FUNCTIONAL FEATURES

1: Digital Display

2: Pump Cover

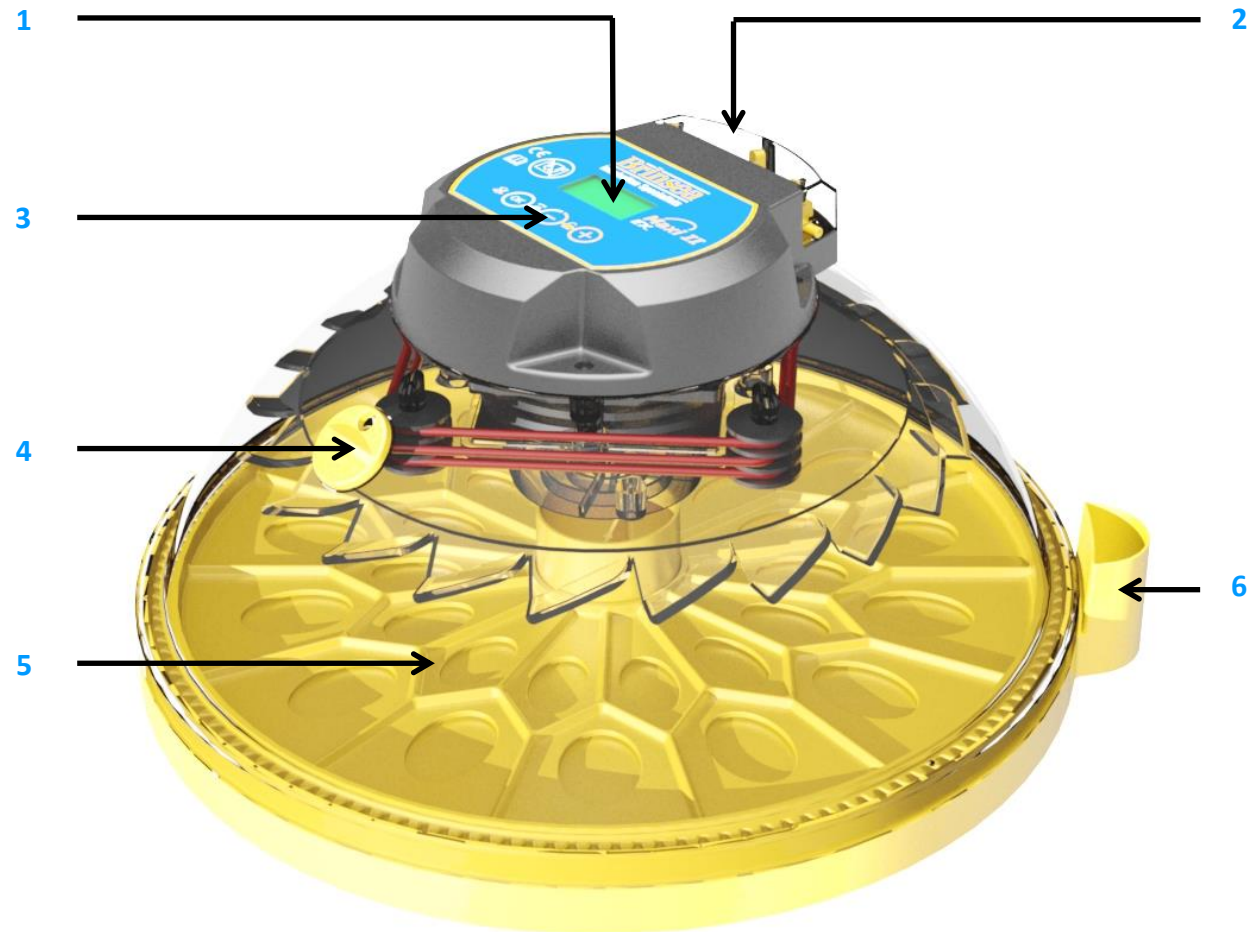
3: Control Buttons

4: Adjustable Air Vent

5: Egg Discs (2)

6: External Fill Point

The external fill point should not be used in conjunction with the pump system.



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.



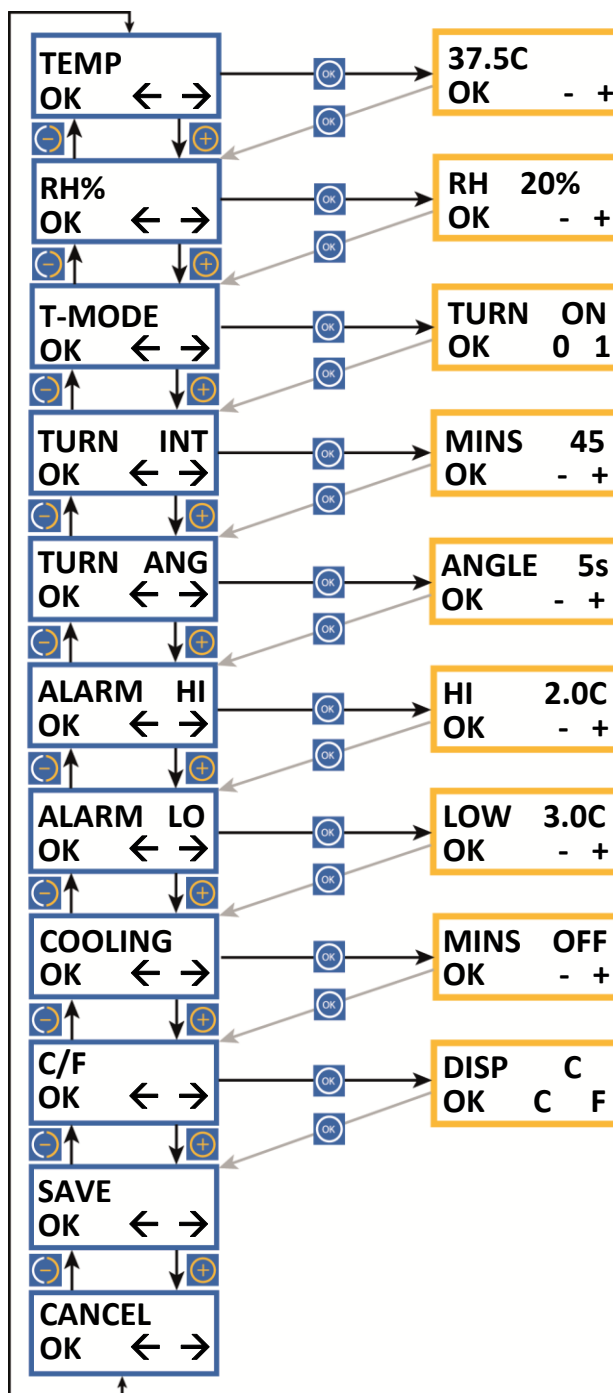
Select the option / return to the menu.



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.

RELATIVE HUMIDITY

Range 20% – 80%.
Default 20%. See section 6.

TURNING MODE

Switches the turning system on or off.
Default ON.

TURNING INTERVAL

Sets the delay between turns.
Range 5 – 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 II EX

4 DISPLAY

DIGITAL CONTROL SYSTEM

The Maxi II EX 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: 45% (with vent set to minimum)

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

Turning Angle: 7 seconds

Cooling: OFF

(Do not manually add water to the water pans when the automatic humidity control system is being used)

(FIG 1)

T*37.5C
H 35% P/

Normal Operation – Temperature, relative humidity 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: "↓".
- The asterisk "*" adjacent to the humidity reading shows when the pump output is active (see section 8). The pump output will not come on until the incubator is up to operating temperature and the set humidity level is greater than the measured humidity level in the incubator.
- 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 II EX

4 DISPLAY

(FIG 2)

T*39.8C
H 35% H/

(FIG 3)

T*32.1C
H 35% 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 II EX

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
Parrots:			
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 II EX has a built-in temperature alarm which warns of high or low temperatures. See section 4 for details.



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.

HATCHING

If the humidity level in the incubator is lower than the Set Humidity Level the pump will start to turn (sometimes brief pulses) and gradually draw water from the tank and pump it to the evaporation card in the incubator.

This may take a few hours to pump through and stabilise after which the pump will run intermittently as the humidity level is controlled.

Typical Humidity:

Generally accepted incubation RH levels for species groups:

During incubation: Poultry	40-50% RH
Waterfowl	45-55% RH
Parrots	35-45% RH
Hatching: All species	65% RH or more

Typical Weight Loss:

Typical ideal weight losses for species groups:

Poultry	13%
Waterfowl	14%
Parrots	16%

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

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: Monitor humidity levels and adjust to match published guidelines for different species.

2: Monitor egg weight loss which varies as a direct result of humidity and correct 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.

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.

SETTING THE RELATIVE HUMIDITY LEVEL



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



2. Press the + button to scroll to the RH% option.

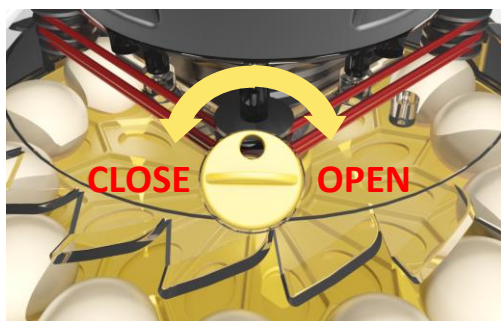


3. Press OK to select the RH% screen and adjust as necessary using the + and - buttons.



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

ADJUSTING THE VENT



Opening and closing the vent: Close the vent to increase humidity or open the vent to decrease humidity. In general set to minimum when using the automatic humidity control.

The external fill point should not be used in conjunction with the pump system.

The pump will not run if the incubator is significantly below the set temperature (including during periodic incubation cooling – see section 8). This is to prevent the system adding too much water when the top has been opened for inspecting eggs etc.

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 is in addition to the water added by the pump.

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.

The control system may be set to control between 20 and 80% RH. 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

- The humidity control system can only increase humidity, not actively reduce it. 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.
- Check that water is reaching the incubator when the pump runs – if not check the whole length of the tubing for kinks and check that the tubing around the pump has not become permanently flattened. If it has, try stretching it gently to open it. If that fails replace the pump tube (see page 9). Silicone tubing is very flexible but can be damaged by sharp finger nails. A tiny perforation on the suction side of the pump will let in air and prevent the pump drawing water.
- The tubing around the pump must be replaced periodically, typically every three months but this varies with use. See page 9 for details.

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.

EGG 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.

Discard cracked, mis-shaped and heavily soiled eggs (if possible). Only wash soiled eggs using a branded egg wash solution such as Brinsea Incubation Disinfectant Concentrate following the manufacturer's instructions. It is essential to wash eggs in solution which is significantly warmer than the egg.

Bear in mind that all solutions will remove the outer cuticle from the egg as well as the dirt and may leave the egg at greater risk from bacterial contamination in the future.

EGG SETTING

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

The Maxi II EX is designed to accommodate eggs of different sizes from pheasant to duck eggs in the "standard" egg disc or smaller eggs using the alternative "small" egg disc.

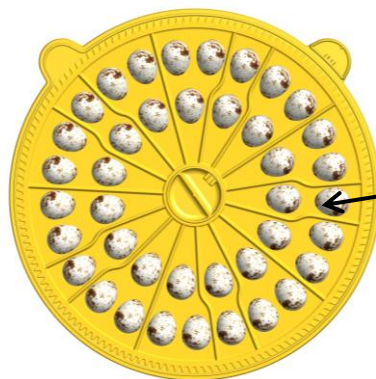
Set the eggs in the pockets of the egg discs provided. The eggs need to be set lying flat and most eggs favour being set with their pointed ends facing inwards towards the middle of the egg disc. Some experimentation may be required to check which direction gives the most even turning. Larger eggs typically favour being set with their points towards the outside, especially when using the Large Egg Disc for 14 eggs.

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 disc.

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

Switch the turning system on – see section 10. 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 3 days or so and temperature daily. Candle the eggs after 1/3rd of the incubation period has elapsed to reject clear, infertile eggs.



Eggs set lying flat with their pointed ends facing inwards towards the middle of the egg disc

SETTING THE TURNING OPTIONS



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



2. Press + to scroll to the TURN 0/1 option.



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



4. 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.



5. 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.



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

TURNING EGGS

The Maxi II EX turning system has two modes of operation:

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

OFF – The turning system is stopped. 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.

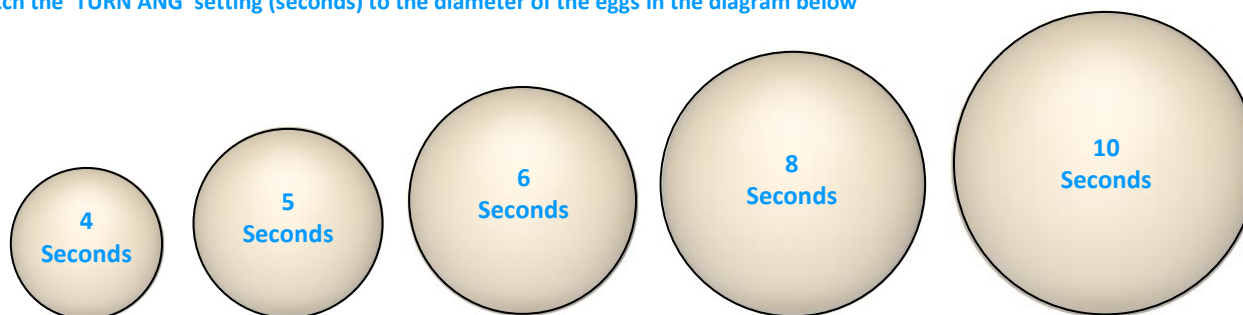
Larger eggs will require a longer turn to achieve the same angle as smaller ones. Use the chart below for a simple guide. Match the TURN ANG setting to the diameter of the eggs. This should give a turn angle of between 90 and 120 degrees.

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.

The turn interval may be set to approximately one hour for most species but parrots' eggs benefit from more frequent turns with 5 or 10 minute intervals for the first 10 days of incubation.

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 II EX

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

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.
- The humidity pump will not run during periodic cooling; humidity levels will rise as the air cools.

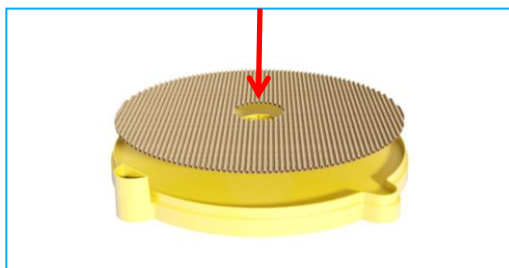
Maxi II EX

9 HATCHING & CLEANING UP

HATCHING

1: If hatching in the Maxi II, 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 disc 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, 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 20 and 50 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 DISCS, 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 II EX remove and wash the egg discs, and base in Brinsea Incubation Disinfectant Solution 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 for further information and advice.

MAXI II MAXIMUM SETTING CAPACITIES:

Egg size Typical capacity

Quail 40

Pheasant 40

Hen 14

Duck 14

Dimensions: 354mm x 354mm x 165mm

Weight: 1.923 Kg

Power Consumption:

Incubator maximum 40 Watts
(typical average) 24 Watts

Electrical Supply: 100 - 240v, 50/60Hz, 1.3A
max.

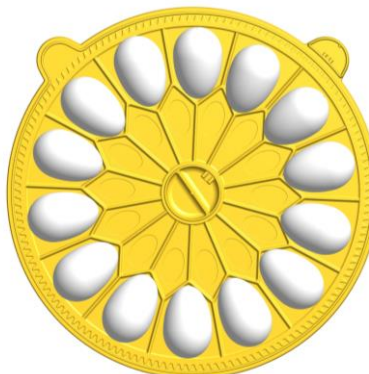
14 hen eggs
Standard egg disc



40 quail eggs
Small egg disc



14 duck eggs
Standard egg disc



40 pheasant eggs
Small egg disc



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.

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/xxxxxxxxxx)

Maxi II Advance (Serial numbers AC26x/xxxxxxxxxx)

Maxi II EX (Serial numbers AC27x/xxxxxxxxxx)

to which this declaration relates are in conformity with the following EU Directives:

2006/42/EC Machinery Directive

2014/30/EU Electromagnetic Compatibility Directive

2011/65/EU Restriction on the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations

The relevant sections of the following Standards have been used:

EN 60335-1:2012+A11:2014

EN 60335-2-71:2003+A1:2007

EN 55014-1:2006+A2:2011

EN 55014-2:2015

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: 8th September 2016

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

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