

USER MANUAL

EGG INCUBATOR

EU PROFİ C-72/G-20



EGG INCUBATOR EU PROFİ C-72/G-20

Des Champs

EN/RO/RU



Read the instructions before use!



Do not cover!

Damaged appliances must not be used.

The appliance 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.

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.



Table of content

1	Components	4
2	Assembly	5
3	Pump setup	6
4	Functional Features	8
5	Control Menu	9
6	Display	10
7	Temperature	11
8	Humidity and Ventilation	12
9	Periodic Incubation Cooling	14
10	Specifications	15



Safety

1. Do not leave the device on unattended for a long time.
2. Do not install the incubator near flames or heating devices.
3. Do not start the incubator with the lid off.
4. Do not place foreign objects on the incubator
5. Do not connect other devices to the control unit

General Instructions

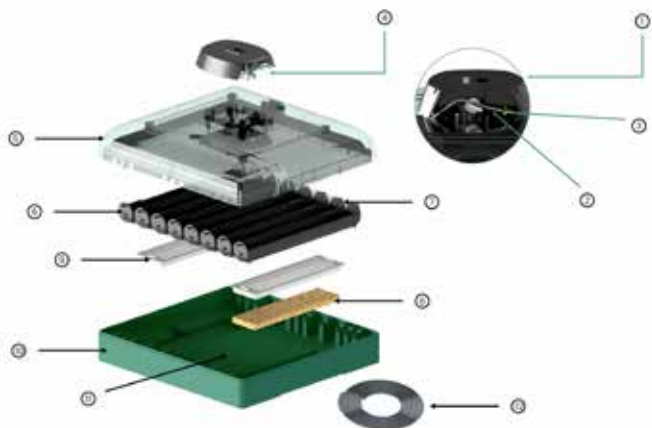
1. The EU PROFI C-72-G/20 incubator is a household device that is designed for the incubation of poultry at home.
2. Careful handling of the incubator will ensure its long-term lifespan.





Components

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. Damaged appliances must not be used.



- | | |
|-------------------------------|----------------------------------|
| 1 Long Pump Connector | 7 Link |
| 2 Water Pump Tubing | 8 Water Evaporation Block |
| 3 Short Pump Connector | 9 Water Pan Covers (2) |
| 4 Pump Cover | 10 Base |
| 5 Top | 11 Hatching Mat |
| 6 Egg Carriers (8) | 12 Silicon Water Tubing |



Assembly

ASSEMBLY

- 1 Place the top onto the base in the correct orientation. The egg turning motor must sit over the link. Check the top fits flush all the way around the base edge. (fig. 1)



fig. 1

ASSEMBLY

- 2 Find a suitable water container. Place next to the incubator. (fig. 2)

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.

Attention. To avoid contamination and damage to the automatic humidity control system, use purified or distilled water.

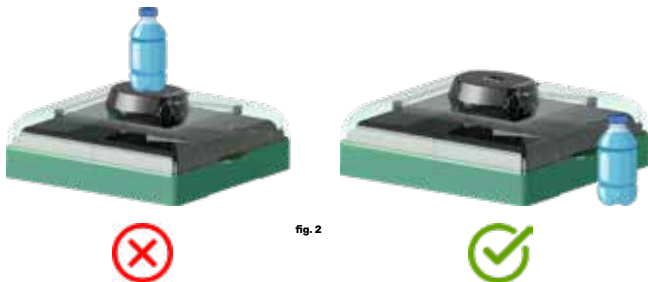


fig. 2



Pump Setup

- 1 Ensure the long pump connector is in the correct position with the nozzle passing through the slot into the incubator as shown.
- 2 Cut the water container tube to length (a length of silicon 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 other side of the short pump connector and feed the tube into your water container.



Pump setup

The EU PROFI C-72/G-20 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 an expanded paper evaporation block where warm air is drawn over the large 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 (4.25' / 108mm) and two pump connectors that are fitted at each end of the tube.



Pump Setup

- 3** Pull the short pump connector up over the capstan, wrap around and pull over into the pump connector's slot.

- 4** 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 tube 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 4.25' / 108mm. 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



Capstan

Pump Connectors Slot



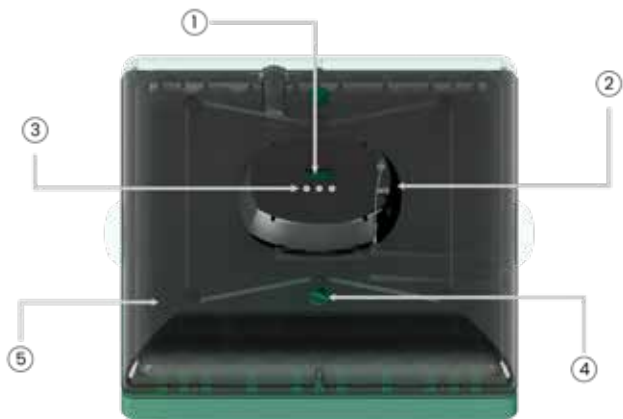
Pump cover



Screw



Functional Features



- 1** Digital Display
- 2** Control Buttons
- 3** Pump Cover
- 4** Adjustable Air Vent
- 5** Egg Trays (8)



Control Menu

Before each new incubation process it is necessary to configure and check the settings using the control menu. (Example of settings for poultry are showed on page 11).

The diagram 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.

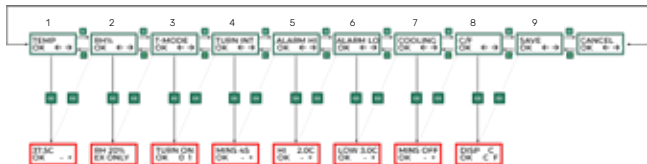


Diagram (1)

1 - INCUBATION TEMPERATURE

Range 20.0 – 40.0°C (68.0 – 104.0°F).

2 - RELATIVE HUMIDITY

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

3 - TURNING MODE

Switches the turning system on or off.
Default ON.

4 - TURNING INTERVAL

Sets the delay between turns.
Range 5 – 180 minutes. Default 45 minutes

5 - 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).

6 - 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).

7 - 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.

8 - CELSIUS / FAHRENHEIT DISPLAY

Switches all temperature figures between °C and °F. Default °C.

9 - SAVE

All changes are saved. Return to normal operation screen.

10 - CANCEL

All changes are ignored. Return to normal operation screen.



Display

Digital Control System

The EU PROFI 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	Humidity	Turning interval	Cooling
99.5° F (37.5° C)	45%	45 minutes (turn off from day 19 and remove egg carriers)	OFF

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.

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 and 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.

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 and 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.

T* 37.5C
H 35% P/

(Fig 1)

T* 39.8C
H 35% H/

(Fig 2)

T* 32.1C
H 35% L/

(Fig 3)

T* 37.5C
-RM /

(Fig 4)

T* 37.5C
+RM /

(Fig 5)



Temperature

Setting The Temperature



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



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



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



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



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



Press the + button to select °F or the - button to select °C.



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	99.3 – 99.6°F	37.4 – 37.6°C	21 days
Pheasant	99.6 – 100.0°F	37.6 – 37.8°C	23-27 days
Quail	99.6 – 100.0°F	37.6 – 37.8°C	16-23 days
Ducks	99.3 – 99.6°F	37.4 – 37.6°C	28 days
Amazons	98.3 – 98.6°F	36.8 – 37.0°C	24-29 days
Macaws	98.3 – 98.6°F	36.8 – 37.0°C	26-28 days
Love Birds	98.3 – 98.6°F	36.8 – 37.0°C	22-24 days
African Grey	98.3 – 98.6°F	36.8 – 37.0°C	28 days
Eclectus	98.3 – 98.6°F	36.8 – 37.0°C	28 days

Attention. This table is for informational purposes only and does not guarantee 100% hatching.

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



Humidity and 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 60-65% RH		

Typical Weight Loss

Typical ideal weight losses for species groups:

During incubation		
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.

Setting The Relative Humidity Level



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



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



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



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.



The pump will not run if the incubator is significantly below the set temperature .
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 10). 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.
- If it is necessary to achieve higher humidity, you can add water directly to the water pan on the base.

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.

Setting The Turning Options



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



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



Press OK to select the turning mode screen and use the + and - buttons to set to ON 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 and then scroll down to SAVE. Press OK to save the changes.

Storing , Setting and Turning Eggs

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). 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.

The EU PROFI is designed to accommodate eggs of different sizes from pheasant to duck eggs or larger/ smaller eggs using the alternative egg carrier.

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

Set the eggs in the egg carriers provided. The eggs need to be set lying flat or with their pointed ends facing down. In the first 1-2 days of incubation we recommend turning off the egg turning system. After 1-2 days switch the turning system on. A revolving line symbol "/" should be shown in the corner of the display.

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.



Chicken Tray

Pointed ends of eggs facing down



Goose Tray

Pointed ends of eggs facing down



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.



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



Press the + button to scroll to the cooling option.



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



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. 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

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.

HATCHING

1. If hatching in the EU PROFI: Two days before the hatch is due, remove the top, egg carriers and their link. Remove the water pan shutter and water pan covers.
2. Insert the hatching mat, ribbed side up. Re-fit the water pan covers over the hatching mat. Lay the eggs directly onto the mat. Don't re-use hatching mats.
3. Put the top back on.
4. Turning must be switched to OFF in the control menu. Hatching humidity levels need to be high.

When most eggs have hatched (12 to 48 hours after the first egg hatches) remove the hatchlings to a brooder. 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

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 CARRIERS, COVERS OR CABINET PARTS IN LIQUIDS OVER 120°F (50°C). DO NOT USE A DISHWASHER TO CLEAN ANY PARTS OF THE INCUBATOR

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 calibrated during manufacture.

Specifications

EU PROFI MAXIMUM SETTING CAPACITIES:

Chicken Tray - 8 pcs	Typical capacity
Chicken Eggs	72
Duck Eggs	72
Goose Tray (Optional) - 5 pcs	Typical capacity
Quail Eggs	140
Pheasant Eggs	115
Goose Eggs (EU PROFI G-20)	20
Dimensions	572mm x 510mm x 218mm
Power Consumption	115W max. / 60W typical average
Electrical Supply	230V 50Hz

Chicken Tray - 8 pcs



9 chicken eggs in chicken egg tray



9 duck eggs in chicken egg tray

Goose Tray (Optional) - 5 pcs



28 quail eggs in optional large egg tray



23 pheasant eggs in optional large egg tray



4 goose eggs in optional large egg tray



THANK YOU FOR YOUR PURCHASE

