



USER MANUAL
MODEL: SH2000 COMBO
DIGITAL AUTOMATIC EGG INCUBATOR & HATCHER



VERY IMPORTANT!
READ THIS USER MANUAL BEFORE USING YOUR
INCUBATOR



Table of Contents

Page 2 - 5:

Location and placement of your incubator
What you will find inside your incubator
How to use your Incubator Control Panel

Page 6 - 9:

How to operate your incubator
How to load eggs in your incubator
Managing the hatching process

Page 9 - 15:

Daily Checklist for your incubator
Incubation Problem Solving

Thank you for your choosing Surehatch!

Incubation and hatching is an exciting journey – thank you for trusting Surehatch as your incubator brand of choice in this endeavor. We wish you all the best and hope that you enjoy this journey as much as we do!

*Feel free to contact us for advice or assistance at the details below. Join the **Surehatch Egg Incubator Owner's Club** on Facebook and meet some fellow Surehatch users!*

Happy hatching!

Team Surehatch

Facebook: Surehatch Egg Incubator Owner's Club

Instagram: @surehatch

Website: www.surehatch.com

E-mail: sales@surehatch.com

Technical Specs: SH2000 Combo

Voltage: 120V AC, 60Hz Single Phase

For Indoor Use Only

Take caution when operating as moving parts can cause injury

Surehatch Incubators have been designed for easy operation to produce the best possible hatch rates taking all the variables of successful incubation into account.

All Surehatch incubators and hatchers have been tested in our factory and are made to high quality standards. Ultimately the success of your hatchery operation lies in the hands of the hatchery manager/user and the quality of the hatching eggs. It is therefore critically important that the hatchery manager ensures that he/she follows the best recommended practices for successful incubation.

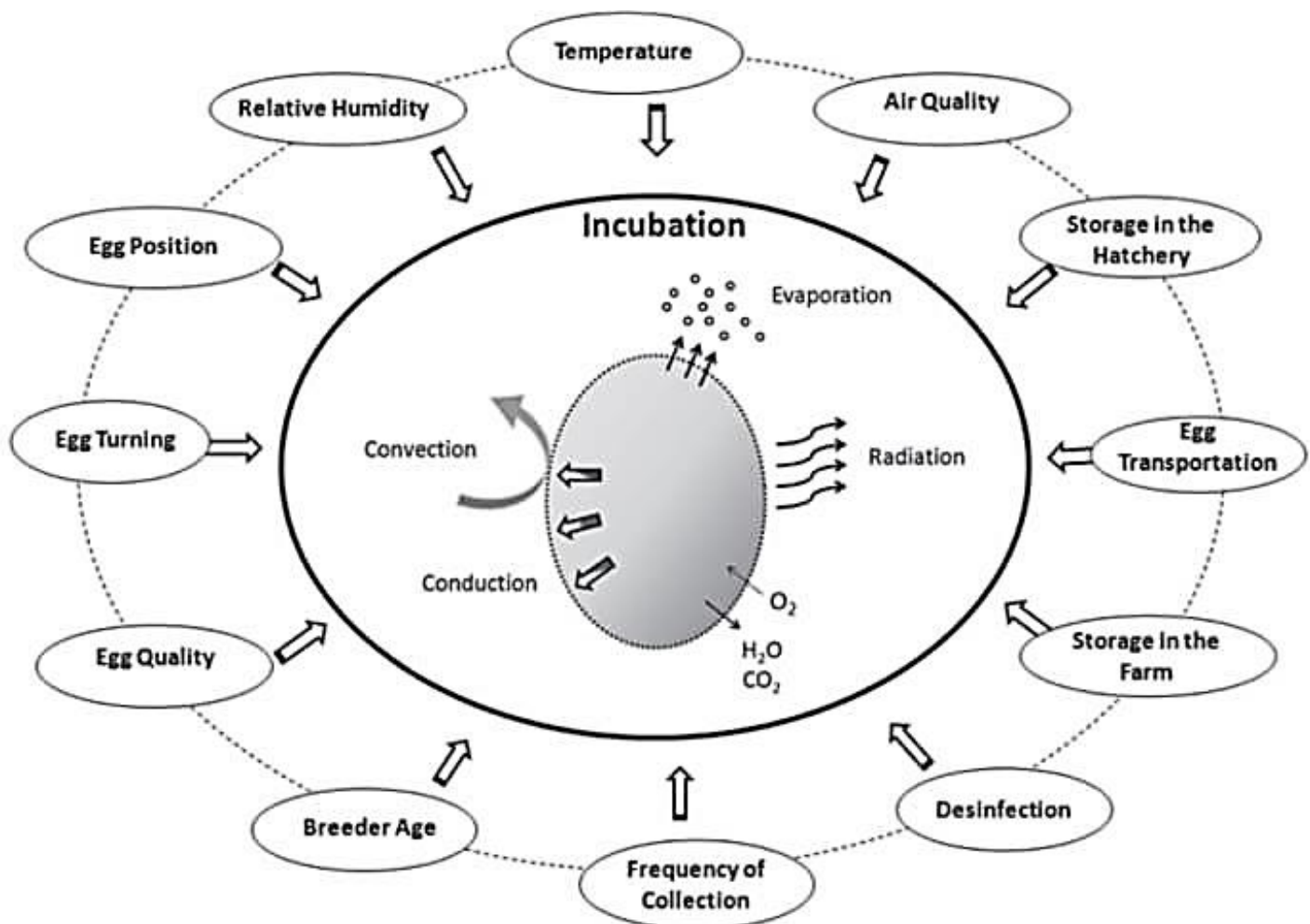
The information provided in this user manual aims to help ensure optimal functioning of the incubator to achieve the best possible incubation results. In addition to the contents of this user manual we also recommend that you further your knowledge of incubation by studying additional hatchery management info available on the internet.

NOTE: It is recommended that you operate the incubator with a small quantity of inexpensive eggs to be assured of your operating procedures and the performance of the incubator before attempting to hatch large quantities of eggs or expensive eggs.

Success in incubation has 3 main pillars which determines hatching results – these are:

- 1) **The incubator (That is our part)**
- 2) **The quality of the hatching eggs (That is up to the hen and cock)**
- 3) **The inputs/management of the entire process (That is you)**

All 3 pillars need to work together to produce a successful hatch. Below shows the interaction of all the variables which determine incubation success:



Hatching Egg quality and Pre-Incubation Egg Storage

It is important to note that the incubator can only give good hatch rates if the eggs which are placed in it is of good quality. Infertile eggs will never hatch, poor quality eggs will give low hatch rates. Good quality hatching eggs have the best chances of successful hatching. Shipped eggs have lower hatchability due to the vibration/disturbances to the embryo and non-ideal temperature conditions during transport.

Choose eggs of normal shape. They must not be elongated, spherical, undulated or with any other malformation.

Eggs Suitable for Incubation



Good quality eggs

Eggs With Low Hatching Percentage



Rough shell

White (not genetically)
and fragile shell

Small egg

Slightly dirty egg

Oblong egg

Eggs To Be Scrapped



Soiled egg

Blood on
the shell

Fecal material
on the shell

Yolk on
the shell

Slight crack



Broken



Pierced



Misshapen



Thin shell



Coarse shell

Only use good quality, clean fertile hatching eggs

- **Do not store eggs for longer than 7 days before incubating.** On average, one day's storage adds one hour to incubation time. This must be taken into account when eggs are set, so fresh and stored eggs should be set at different times
- **The longer you store the eggs, the lower the hatch rate.** Hatchability is depressed by prolonged storage. The effect increases with storage time after the initial six-day period, resulting in losses of 0.5 to 1.5% per day with the percent increasing as storage extends further
- Use eggs from good medium aged flock – young birds produce small eggs which are not ideal for incubation. Older flock produce eggs which have lower hatchability
- **Only set eggs which are uniform and clean.** Never set “dirty” eggs – eggs with visible manure on, as you will introduce pathogens into the incubator
- Don't wipe eggs before setting as you will close the egg pores which they need to breathe through – rather use a brush to clean eggs
- If you smell a bad egg, remove immediately and discard
- Candle eggs after 10 days in the incubator to check for fertility. Eggs cannot be checked for fertility before 10 days in the incubator
- **Remove eggs which are not fertile** as they can potentially become “poppers” – eggs that burst and release pathogens
- **Don't use a permanent marker when marking eggs.** The egg can absorb the toxic chemicals in the permanent marker which leads to potential early death. Rather write on the plastic tray
- Never mix waterfowl (like duck eggs) with dry or game fowl (like chickens) in the same incubator or hatcher. Waterfowl have potential pathogens on their shells which may negatively affect chicken eggs and cause early deaths of embryos
- **Place eggs with their sharp end pointing downwards** both in storage as well as when placing in the incubator

Location/Placement of the incubator

- Incubator/hatcher must be placed **INDOORS**.
- Select a suitable room which has an **average temperature** of **68°F - 82°F**
- **Don't let the room temperature exceed 86° F.** The incubator/hatcher cools down via the air which it pulls in from the room. If the room temperature goes over 86°F the incubator will struggle to cool down and can potentially overheat the eggs
- Have a reliable source of electricity - **(110V Household Electricity – Single Phase)**. If you use a generator as a back-up make sure it's an INVERTER GENERATOR. Any other type of generator could damage the electronics.
- Ensure that the floor surface is level where you place the incubator. The door of your incubator/hatcher will not shut properly if the floor is uneven.
- Place the incubator/hatcher **away from direct sunlight**. You may place the incubator on a table or on the ground, whichever suits you best. Place the incubator 2 feet away from a corner or wall so that air can move around it freely.
- The room must have **good ventilation**. It's important that there is **always fresh air that comes into the room**.
- Depending on your room layout, we recommended that you make use of a wall/window extractor fan to pull the air out of the room. As eggs develop into chicks, they release CO₂ (Carbon Dioxide) which needs to be extracted out of the room. Ensure that fresh air (Oxygen) enters the room. Ideally the air in the room needs to be replaced by fresh air every 4 to 6 hours.
- **Try to maintain on average a 50% to 60% humidity in the ROOM.** It is normal for humidity to fluctuate day by day – this is fine as long as you don't have extremes (Like 20% or 90% humidity in the room). Your incubator has been designed to be capable to regulate its humidity under most conditions – however, the more stable the room humidity, the easier it is for your incubator to regulate.
- If you are in a very dry climate, place some water pans in the room to increase humidity. If you maintain an average room temperature as suggested earlier then your room humidity usually results in about 50%
- If you are in a very humid climate, you can remove the water pan/containers out of the incubator/hatcher to decrease humidity in the incubator/hatcher
- **Maintaining hygiene is particularly important in your incubator/hatchers** as well as in the hatchery room. **Do not keep chicks in same room as the incubator/hatcher.** Use a separate room to place hatched chicks. This is done to maintain hygiene.
- We recommend having strict access control to the hatchery room. Do not let any unauthorized persons tamper with the incubators/hatchers while you are away.

Some basics about incubation you need to know

- Chicken eggs take **21 days to incubate**
- For the first 18 days eggs are placed in plastic egg trays (**Also called the setter**)
- On the morning of day 18 the eggs must be moved from the plastic egg trays(setter) **to the hatcher** (Hatching crates below the egg tray).
- The eggs must lay still in the hatcher. On day 21/22 the chicks will start hatching. Chicks can be left inside the incubator for up to 24 hours after they have hatched.
- **DO NOT TO OPEN THE INCUBATOR/HATCHER FROM DAY 18 to 21** – opening the door causes major moisture loss and may “shrink-wrap” the chicks inside the eggs
- **Ideal incubation temperature is 99.5°F (Fluctuations between 96°F to 101°F is normal).** Your incubator is **pre-set to regulate the temperature to 99.5°F**

• **Ideal incubator humidity: Day 1 to 18: 50-60%. Day 18 to 21: 60-65%**

- **Eggs must lose 12% of weight due to moisture loss in the first 18 days.**
- **Only eggs which are fertile can stand a chance to hatch.** There are various reasons why eggs don't hatch – at the end of this manual you will find reasons why eggs fail to hatch. You can check if the eggs are fertile after 10 days in the incubator. **You can't check for fertility before they are placed in the incubator.**

CONTENTS INSIDE YOUR INCUBATOR:

Water Bucket:

Must be filled with clean water. Bucket supplies water to water pan inside. Refill when empty

Temperature and humidity Sensor:

Sensitive to water - Don't spray water directly onto sensor when cleaning machine!

Auto ON/OFF Switch:

Incubator will switch off when you open the door and back on as you close it

Connection pipe for water bucket

Incubator Control Panel:

Shows incubator temperature and humidity %

Humidity Control Air Vents

Egg Turner Motor with release clutch

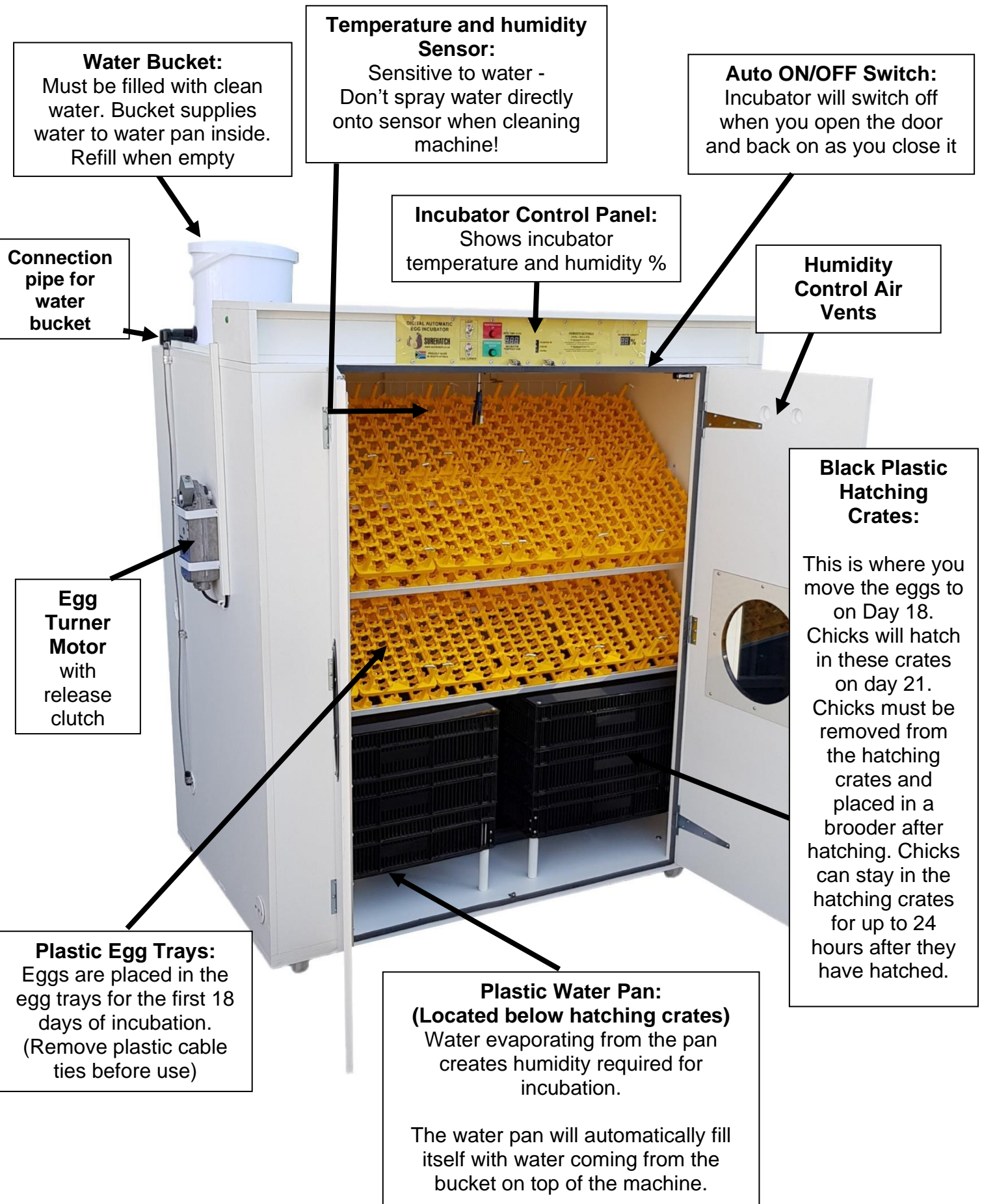
Black Plastic Hatching Crates:

This is where you move the eggs to on Day 18. Chicks will hatch in these crates on day 21. Chicks must be removed from the hatching crates and placed in a brooder after hatching. Chicks can stay in the hatching crates for up to 24 hours after they have hatched.

Plastic Egg Trays:
Eggs are placed in the egg trays for the first 18 days of incubation. (Remove plastic cable ties before use)

Plastic Water Pan:
(Located below hatching crates)
Water evaporating from the pan creates humidity required for incubation.

The water pan will automatically fill itself with water coming from the bucket on top of the machine.



STARTING UP YOUR INCUBATOR:

STEP 1: Plug in your incubator:

Switch **ON** your incubator by **plugging it in to the wall plug**.

STEP 2: Connect water bucket to incubator and fill bucket with water

Your incubator has an automatic float valve inside that will allow water to flow into the inside water pan from the bucket on top of the machine. Make sure that you check the bucket daily and fill with **CLEAN WATER** as required.

STEP 3: SETTING INCUBATOR TEMPERATURE: (This will take about 1 hour)

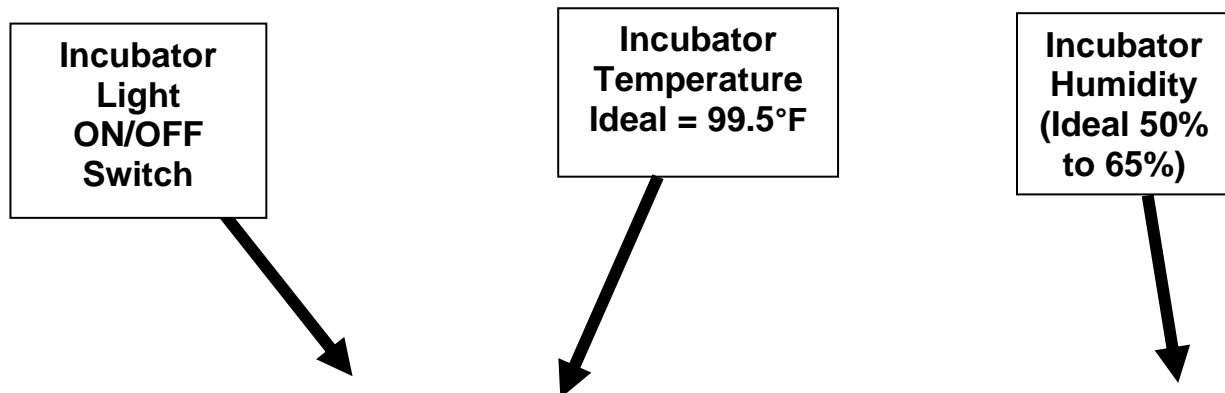
The incubator has been factory set to heat up to 99.5°F (37.5 Degrees Celsius) when you switch it on. The incubator will take about 1 hour to heat up to 99.5°F

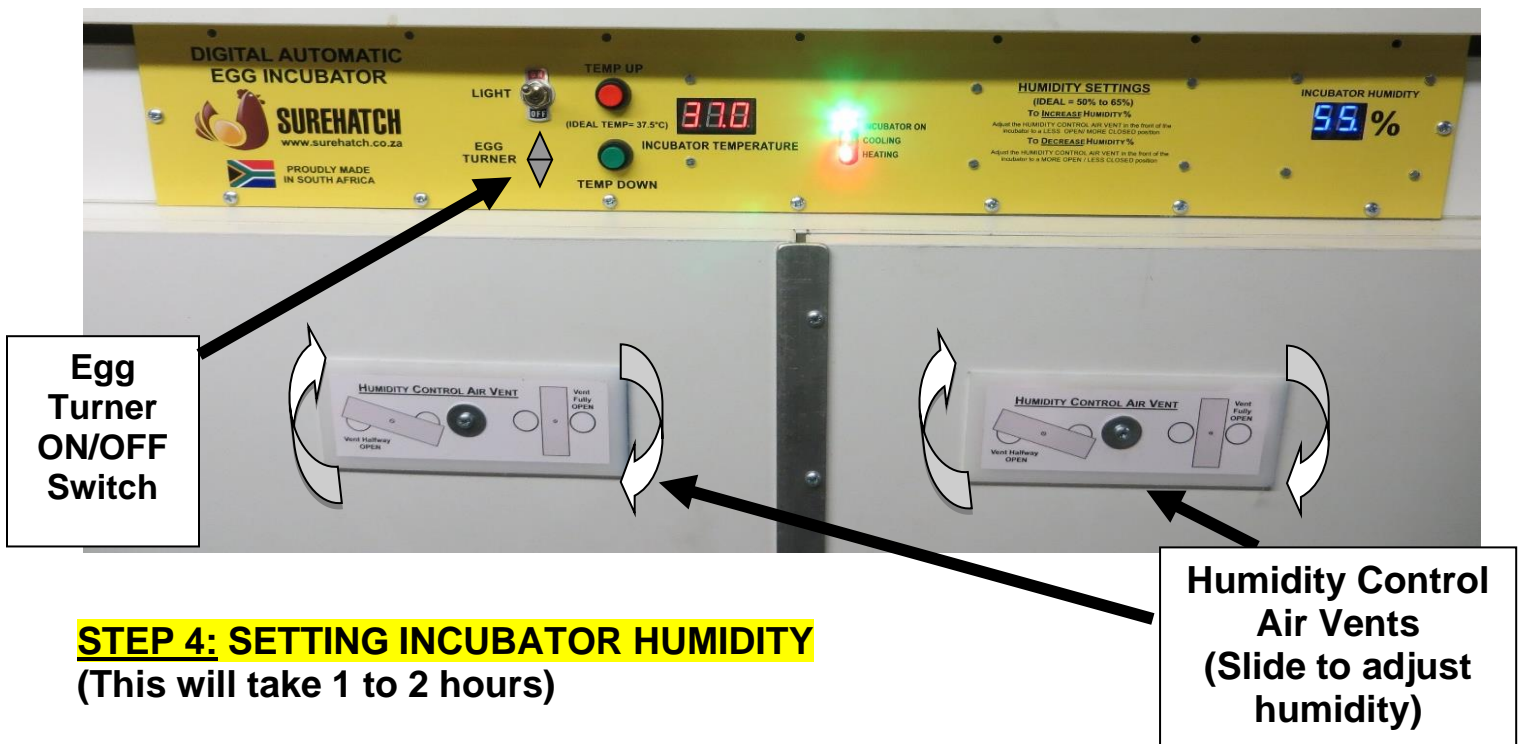
*****You can change the temperature display from Fahrenheit to Celsius by pressing both TEMP UP and TEMP DOWN together at the same time and keeping it pressed for 6 seconds.**

Next steps:

- Close incubator door
- Wait for incubator to reach 99.5°F
- To change the incubator temperature set-point simply press the “Temp Up” or “Temp Down” Button (Generally not required – only for advanced users)

Incubator Control Panel:





STEP 4: SETTING INCUBATOR HUMIDITY (This will take 1 to 2 hours)

You can start adjusting humidity once the incubator has been running at a temperature of **99.5°F** for an **at least 1 hour**.

The main way in which to change humidity on your incubator/hatcher is to adjust the **Humidity Control Air Vents** on the front of the incubator. **(Slide these plastic vents up or down to open or close the vents).**

*******The more open the vent is, the less the humidity will be. The less open, the higher the humidity will be.**

Never close the humidity control air vents completely – it's always good to keep them slightly open to assist in sufficient air exchanges for the eggs.

During incubation, water vapor is lost from the egg through the pores of the shell. The rate at which this moisture is lost depends on the number and size of the pores (the gas conductance of the shell) and the humidity in the air around the egg. For best hatchability, an egg must lose 12% of its weight by 18 days of incubation.

HUMIDITY SETTINGS (IDEAL = 50% to 65%)

Humidity % is determined by the surface area of the water container/ pan and the amount of fresh air exchange in the incubator. You can regulate humidity % by decreasing or increasing the **SURFACE AREA** of the water and by regulating the fresh air that comes into the incubator

The ideal humidity % for incubation is between 50% and 65%

To INCREASE HUMIDITY %

- 1) Fill water container/pan with **WARM WATER**
 - 2) Adjust the **HUMIDITY CONTROL AIR VENT** in the front of the incubator to a **LESS OPEN/ MORE CLOSED** position
- If the above two steps fail to increase humidity, do the following in addition to the above:**
- 3) Place water pans and humidifier in the room where the incubator is standing to increase room humidity

To DECREASE HUMIDITY %

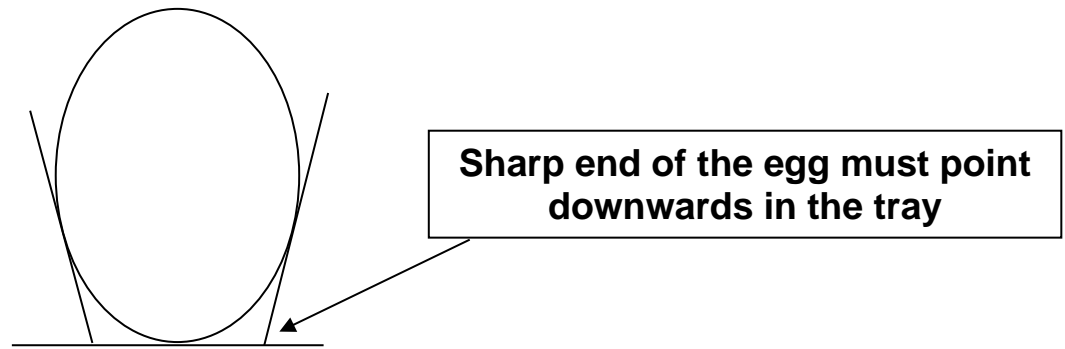
- 1) Adjust the AIR VENT in front to a MORE OPEN / LESS CLOSED position
- 2) Remove one of the water containers

If the above two steps fail to decrease humidity, do the following:

- 3) Remove both water containers completely (Only in very humid / wet areas)
- 4) Place a dehumidifier in the room (Only in very humid / wet areas)

After you are satisfied with the temperature and humidity you may place the eggs in the incubator

REMEMBER TO PLACE THE EGGS WITH THEIR SHARP END POINTING DOWNWARDS IN THE TRAY AS SHOWN BELOW



Eggs must be in the egg trays for the first 18 days before transferring them to the hatching baskets.

IMPORTANT NOTICE:

When packing eggs spread them evenly throughout the trays. Don't place all the eggs in the front or the back of the egg racks. If you pack all the eggs in the front of the incubator the eggs turner will not turn – this is an automatic safety feature to prevent turner motor from unnecessary strain.

To avoid temperature shock to the embryo and consequent condensation on the shell, eggs should be removed from the egg room and pre-warmed before setting. Ideally, eggs should be pre-warmed in a room at around 75-80 °F (24-27 °C) so that all can achieve the desired temperature.

Effective aircirculation and correct room temperature are essential to achieve the necessary even pre-warming of eggs. Uneven pre-warming increases variation in hatch time - precisely the opposite of the desired effect of pre-warming. Even with good air circulation, it will take 8 hours for eggs to reach 78 °F (25°C), irrespective of their initial temperature. With poor air circulation, it may take twice as long.

So, the recommendation is to:

- Provide good air circulation around the eggs.
- Allow 6 to 12 hours for pre-warming.

Automatic Egg Turning:

Egg Turning:

Your Surehatch Incubator is automatically set to turn the eggs every hour.

When loading eggs into the incubator you can **disengage the egg turner motor by pressing the clutch button**.

Remember, eggs must be in the setter trays for the first 18 days and must be moved by hand to the hatcher on the morning of day 18. Chicks will start hatching from day 21/22.

Disengaging the egg turner motor (For when you want to load eggs)

If you want to load eggs and the egg trays are angled at their 45 degree angle, you can disengage the turner motor in order to make the trays horizontal.

How to disengage the turner motor:

Step 1:

Flip the **EGG TURNER** switch to **OFF** (Located on the front control panel)

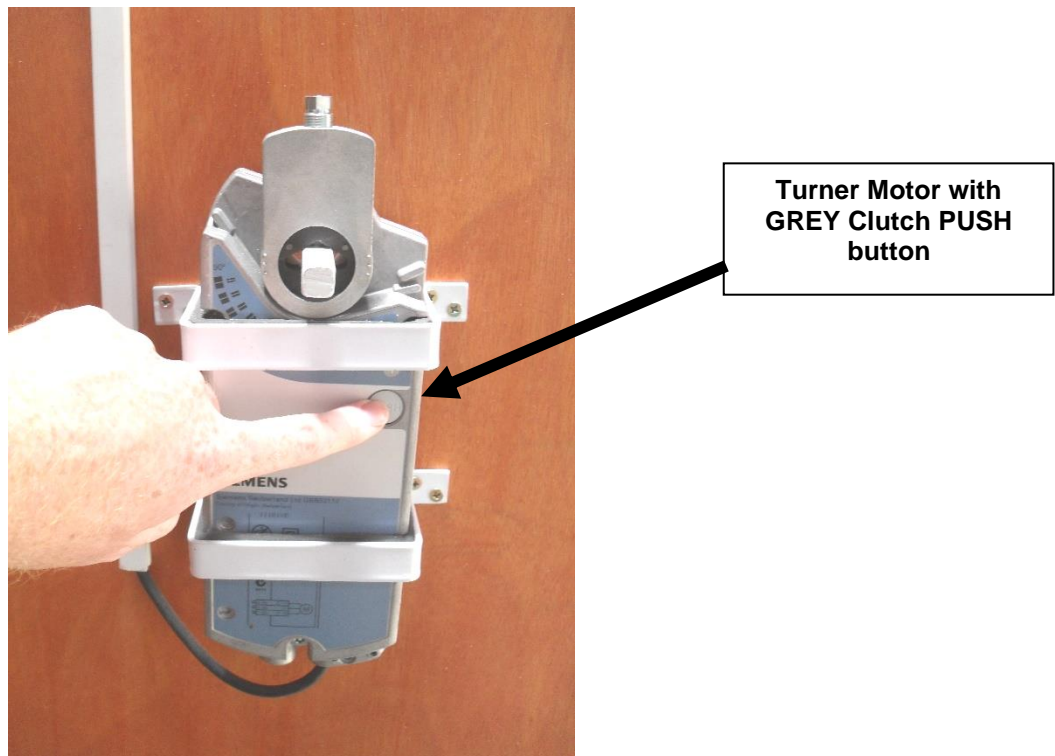
Step 2:

Open the incubator door

Step 3:

Press the clutch button on the turner motor as shown below (Round Grey "Push" button).

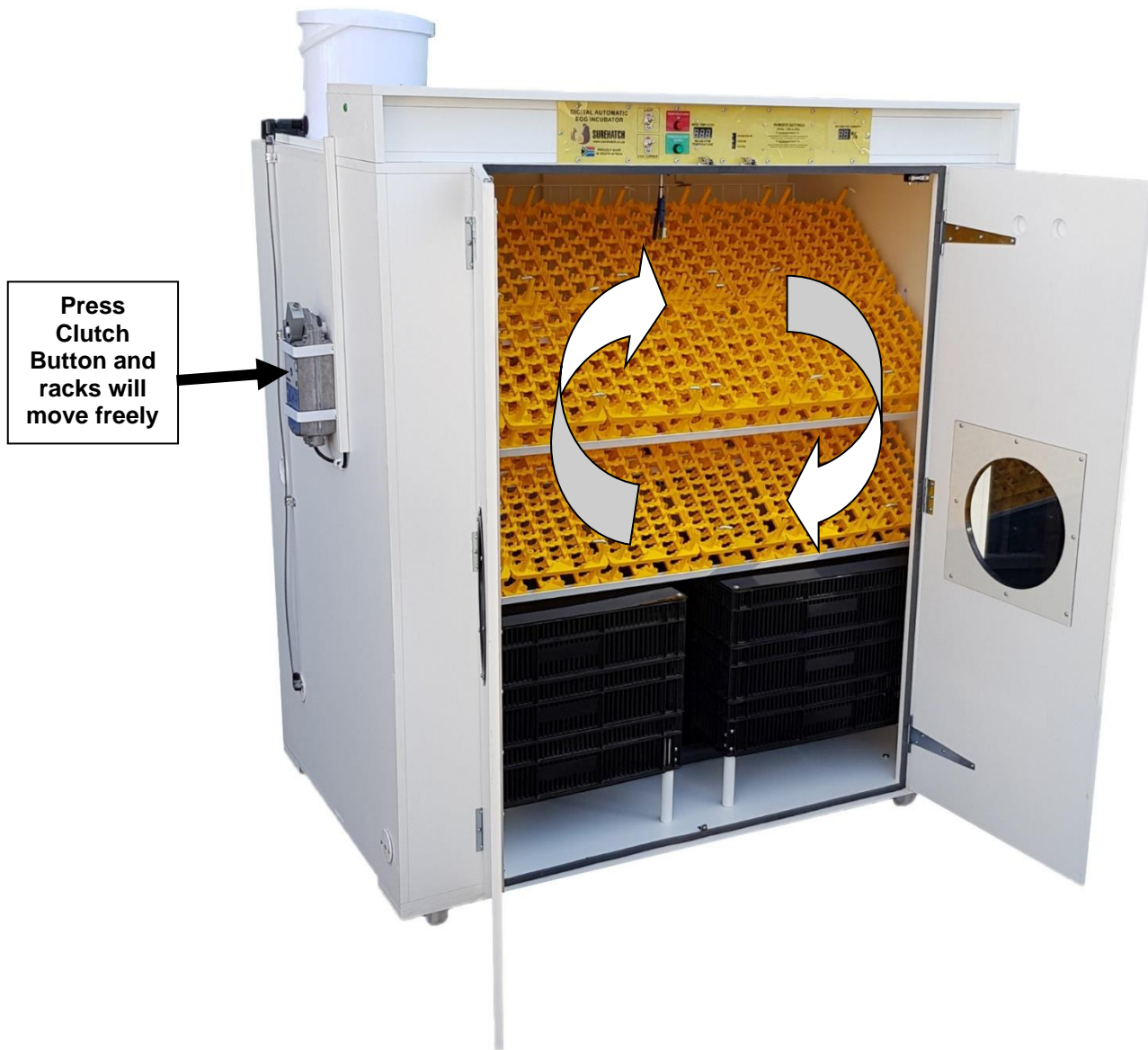
If you press this button the trays will be able to move freely – **See picture below**



Step 4:

Make sure you are holding the egg rack with your one hand while pressing the clutch button.

BE CAREFULL when pressing the clutch button as the egg trays will move to a center position.



Step 5:

Release the clutch button – the tray will now stay in position

Step 6:

Load the eggs/trays

Step 7:

Once trays are loaded onto the racks, Flip the EGG TURNER switch back ON. The racks will start turning immediately.

Step 8:

Close the incubator door properly when done and observe how the trays are moving

Incubator light:

Your incubator has a light located on the inside of the incubator. This light may be switched on in order to view the eggs or chicks inside the incubator.

VERY IMPORTANT: Don't leave the light on as this will negatively effect the functioning of the incubator. Only use the light when necessary. Switch the light **OFF** after you have viewed the eggs/chicks inside the incubator.

CONGRATULATIONS!

***YOU HAVE NOW SUCCESSFULLY SET UP YOUR SUREHATCH EGG INCUBATOR.
NEXT YOU NEED TO FOLLOW THE DAILY CHECKLIST***

Remember to clean the incubator after each hatch. Sanitation is **CRITICALLY** important for successful hatching. Before loading any eggs, clean the incubator by wiping the insides with a cloth and incubator sanitizer. It is essential that the incubator and trays/crates be cleaned thoroughly between hatches.

Before cleaning inside the incubator, be sure to disconnect its electrical cord from the outlet to avoid possible electrical shock. Take care not to introduce moisture or water into the electrical system of the incubator and allow all surfaces to dry before again reconnecting the electrical cord to the outlet.

BE CAREFUL not to spray water directly onto the temperature or humidity sensor located inside the machine as this will damage the sensor.

DAILY CHECKLIST FOR YOUR SUREHATCH INCUBATOR:

Check the following once per day — Correct where necessary

- **CHECK Electricity** - Electricity must always be **ON**. Power interruptions will negatively affect the eggs.

- **CHECK Incubator Temperature**

Ideal temperature is **99.5°F** (**Fluctuation** between **96°F** to **101°F** is normal)

- **CHECK Incubator Humidity**

Ideal humidity % for incubation is between 50% and 65%. Humidity takes hours to build up and is quickly lost when the incubator door is opened. It is normal for humidity to fluctuate 10% to 15% from day to day due to changes in outside humidity.

- **CHECK Incubator Fan** - Must always be **ON** and spinning
- **CHECK Egg Turner Switch** — Must always be switched **ON** after loading and handling eggs
- **Check for smelly, rotten eggs** — remove and throw away if any
- **Check that FRESH AIR is coming into the room**
- **CHECK** that nothing is blocking incubator **AIR VENT**
- **CHECK** that there's **NO DIRECT SUNLIGHT** on the incubator
- **CHECK ROOM TEMPERATURE** — Ideal room temperature = **68°F - 82°F**
- **Don't let the room temperature exceed 86° F.**
- **CLOSE** incubator **DOOR** after you have opened it.
- **Make sure no one can tamper with incubator while you are away!**
- **ONLY** incubate **CLEAN, FRESH, FERTILE** eggs

MAINTAINING BIOSECURITY AND HYGIENE

- **WIPE CLEAN** the insides of your incubator after every hatch
- **WASH YOUR HANDS EVERY TIME BEFORE** you work with the incubator or touch the eggs
- **WASH** your hatching crate/s and egg trays after every hatch with disinfectant
- **Keep your incubation room clean and sanitized!**
- **Throw away any eggs which are smelly, dirty or rotten**

Trouble Shooting Failures with Egg Incubation

When incubation of eggs fails, indications are often available that a well trained professional uses for diagnosing the causes for failure. The information listed below includes the more common symptoms for incubation failures, the causes for each symptom, and the recommended corrective measures. Symptoms of incubation/breeder management problems include:

- Clear eggs with no visible embryonic development.
- Blood rings in incubated eggs.
- Many dead embryos at an early stage.
- Chicks fully formed, but dead without pipping.
- Pipped eggs, but died without hatching.
- Early hatching.
- Late hatching or not hatching uniformly.
- Sticky embryos.
- Embryos sticking or adhering to shell.
- Crippled and malformed chicks.
- Abnormal, weak, or small chicks.
- Chicks with labored breathing.
- Large, soft-bodied mushy chicks.
- Rough or unhealed navels on chicks.
- Short down on chicks.
- Excessive yellow down color.

Symptoms

Clear Eggs with no embryonic development (infertiles)

Probable Cause

Males undernourished
Too few males
Seasonal decline in fertility
Competition among breeding males
Diseased flock
Frozen combs and wattles
Old males
Selected mating in pens
Male sterility
Crowded breeders

Corrective Measures

Follow a recommended feeding program to provide adequate nutrition. Replace underweight males with vigorous ones
Increase the number of males in the flock.
Use young cockerels more resistant to environmental stress.
Do not use too many males. Rear all males together. Place temporary partitions within large pens.
Conduct an approved disease control program.
Provide comfortable housing. Properly select and maintain drinking fountains.
Replace with younger males.
Artificially inseminate infertile hens. Replace males in the pen/house.
Replace males in the pen/house.
Provide recommended floor space, at least 3 ft²/bird.

Improper artificial insemination techniques or use of old/over-diluted semen.
Eggs damaged by environment
Eggs stored too long or incorrectly

Follow recommendations of primary breeder company.

Gather eggs frequently (at least once daily).

Store eggs at 50-60 degrees F. and 60% relative humidity. Incubate eggs within 7 days of lay.

Symptoms

Blood rings

Probable Cause

Improper storage
Improper incubation temperatures
Improper breeder nutrition
Improper fumigation

Corrective Measures

Follow recommended egg storage and gathering recommendations.
Check thermometer accuracy and incubator functions. Follow recommended temperature settings.
Feed breeders a diet with balanced nutrient levels.
Follow fumigation recommendations.

Symptoms

Many dead embryos at early stages

Probable Cause

Improper incubation temperatures (usually too high)
Improper egg turning
Inherited low hatchability
Improper ventilation
Pullorum disease or other salmonellosis
Improper nutrition of breeders

Corrective Measures

Follow recommended incubation temperatures.
Turn at least 3 times daily.
Avoid cross breeding. May need to secure different breeding stock.
Increase ventilation rate in incubator and/or room, but avoid drafts. Add oxygen at high altitudes.
Use eggs from disease-free sources. Have NPIP representatives blood-test the breeder flock.
Provide a well-balanced nutritional diet to breeders

Symptoms

Chicks fully formed, but dead without pipping

Probable Cause

Low average humidity
Improper incubation temperature
Improper ventilation in incubator
Improper turning of eggs
Chilling of eggs
Diseased or poorly conditioned breeder flock

Corrective Measures

Maintain recommended humidity for species of bird incubated.
Check thermometer accuracy and incubator functions. Follow recommended temperature settings.
Adjust ventilation to provide optimum moisture-loss rate from egg during incubation.
Turn eggs at least three times daily until 3 days prior to hatching.
Gather eggs frequently and store under proper conditions.
Conduct a good disease control and breeder management program. Use a well-balanced nutritional diet.

Symptoms

Pipped eggs, but died without hatching

Probable Cause

Insufficient moisture

Improper ventilation

Improper setting of eggs causing malpositioned embryos

Corrective Measures

Increase humidity during the hatching period.

Increase ventilation rate in incubator and/or room, but avoid drafts.

Set eggs with small end down. Turn eggs properly but avoid turning within 3 days of hatching.

Symptoms

Early hatching (may have bloody navels)

Probable Cause

High incubation temperatures

Improper egg storage

Corrective Measures

Follow recommended incubation temperatures. Check equipment for proper function. Guard against electrical surges or high incubator room temperatures.

Store eggs at 60 Degrees F. and 60% R.H. Turn at least 3 times daily.

Symptoms

Late hatching or not hatching uniformly

Probable Cause

Low incubation temperatures

Old or improperly stored eggs

Corrective Measures

Follow recommended incubation temperatures.

Gather eggs frequently, cool immediately and store eggs properly. Do not store longer than 7 days.

Symptoms

Sticky embryos (embryos may be smeared with egg contents)

Probable Cause

High average incubation humidity

Low incubation temperature

Lethal genes

Inadequate ventilation

Improper fumigation of eggs

Corrective Measures

Follow recommended incubation humidity. Check size of air cell as an indicator for adjusting humidity condition.

Follow recommended temperature settings.

Avoid cross breeding. May need to secure different breeding stock.

Increase ventilation rate in incubator and/or room, but avoid drafts.

Fumigate eggs by following the procedure carefully.

Symptoms

Embryos sticking or adhering to shell

Probable Cause

Low incubation humidity (especially during hatching)

Excessive ventilation rate

Corrective Measures

Increase incubation humidity by increasing water evaporation. Embryos dried too much.

Reduce ventilation rate but maintain minimum air exchange to prevent suffocation of embryos.

Symptoms

Crippled and malformed chicks

Probable Cause

Improper incubation temperatures (usually too high)

Low incubation humidity

Improper egg setting position or turning during incubation

Heredity

Slick hatching trays

Improper nutrition of breeders

Corrective Measures

Follow recommended incubation temperatures.

Increase incubation humidity by increasing water evaporation. Embryos dried too much.

Set eggs with small ends down. Turn eggs atleast 3 times daily. Do not turn eggs within 3 days of hatching.

Proper culling and breeding practices will reduce problems.

Use trays with wire floors or place crinoline on hatching surface.

Provide a well-balanced nutritional diet to breeders.

Symptoms

Abnormal, weak, or small chicks

Probable Cause

High incubation or hatching temperatures

Small eggs hatch small chicks

Insufficient incubation humidity

Improper ventilation in hatcher unit

Diseased or poorly conditioned breeder flock

Improper nutrition of breeders

Excessive fumigation in

Corrective Measures

Follow recommended incubation temperatures.

Set only standard or large sized eggs.

Maintain recommended humidity for species of bird incubated..

Increase ventilation rate, but avoid drafts.

Use eggs from disease-free sources only. Have NPIP representatives blood-test the breeder flock.

Provide a well-balanced nutritional diet to breeders (especially vitamin levels).

Fumigate using proper procedures.

Symptoms

Chicks with labored breathing

Probable Cause

Excessive use of fumigant

Respiratory diseases

Corrective Measures

Follow recommended fumigation procedures.

Check disease status of breeder flock. Conduct a thorough cleanup and disinfection of incubator and hatching facilities.

Symptoms

Rough or unhealed navels

Probable Cause

Improper incubation temperatures

High hatching humidity

Navel infection (Omphalitis)

Corrective Measures

Follow recommended incubation temperatures.

Maintain proper humidity.

Clean and disinfect incubator and hatching units between settings of eggs. Maintain dry hatching trays. Properly store and fumigate eggs.

Symptoms

Short down on chicks

Probable Cause

High incubation temperatures

Low incubation humidity

Excessive ventilation

Corrective Measures

Follow recommended incubation temperatures.

Follow suggestions to correct insufficient humidity.

Reduce vent openings to restrict but maintain adequate air exchange.

Holding chicks in hatcher too long after hatching Remove all chicks as soon as fluffy but within 24 hours after hatching.

Symptoms

Excessive yellow coloring of down

Probable Cause

Improper and excessive fumigation in hatcher unit

Corrective Measures

Follow recommended fumigation procedures.

Trouble Shooting Failures with Surehatch Egg Incubators

In general there is very little that will go wrong with your Surehatch incubator. In the unlikely event that something goes wrong, please contact us or consult the trouble shooting below. NB Always switch off the incubator when making repairs. ONLY ELECTRICIANS SHOULD MAKE REPAIRS due to the dangers of electrical shock.

Symptoms

Probable Cause

Corrective Measures

Incubator not running

Incubator not plugged in or electricity not on. Auto off switch at door faulty

Make sure that all plugs are correctly plugged in and that the electricity is on. Check auto off switch on door

Fan is working but Incubator not producing heat

Faulty Temperature Controller or faulty heating elements

Replace Temperature Controller. Once this is done and the problem persists, consider replacing the heating elements (Very unlikely to happen)

Incubator does not regulate temperature

Faulty Temperature Controller or temperature sensor

Replace temperature controller or temperature sensor

Egg trays not turning

Egg Turner not switched on or eggs loaded incorrectly

Make sure egg turner is switched on. Load eggs in balance (Load equal number of eggs in front and back of the machine). If all eggs are loaded in front or back then the turner will not turn

Incorrect temperature

Someone adjusted temperature or faulty temperature controller

Adjust temperature and monitor. If not resolved consider replacing temperature controller and temperature probe

Humidity too high (Shows 99% Reading)

Faulty Humidity Sensor due to water spilled onto it

Dry out sensor with hair dryer (Blow on sensor for 3 min on cold setting of hair dryer). If reading does not go back to normal replace humidity sensor



Thank you for your support!

We wish you all the best and look forward to doing business again.

Happy hatching!
The Surehatch Team

Facebook:

Surehatch Egg Incubator Owner's Club

Website: www.surehatch.com

E-mail: sales@surehatch.com

LIMITED WARRANTY & LIMITED LIABILITY

Whereas Surehatch has no control over usage of equipment supplied, it assumes no responsibility for losses or damage from their equipment. No guarantee on hatchability of eggs.

Do not expose electrical parts to water. Installation of replacement electrical parts should be done by qualified electrician.

STANDARD TERMS AND CONDITIONS APPLY

Contact us via email to receive your copy.