

[Manuals.plus](#) /

› [Farm Innovators](#) /

› Farm Innovators Model 4250 Digital Circulated Air Incubator Instruction Manual

Farm Innovators 4250

Farm Innovators Model 4250 Digital Circulated Air Incubator Instruction Manual

Comprehensive guide for setup, operation, and maintenance.

1. INTRODUCTION

The Farm Innovators Model 4250 Digital Circulated Air Incubator is designed for efficient and reliable hatching of poultry eggs. This automatic incubator features an integrated fan for consistent air circulation, precise temperature and humidity control, and an automatic egg turner to simplify the hatching process. Its durable construction and user-friendly digital display make it suitable for various poultry farming needs.



Figure 1: Farm Innovators Model 4250 Digital Circulated Air Incubator with eggs.

2. SAFETY INFORMATION

- Always place the incubator on a stable, level surface away from direct sunlight or drafts.
- Ensure the power cord is not damaged and is plugged into a grounded outlet.
- Keep the incubator away from children and pets.
- Do not immerse the electrical components in water.
- Refer to the owner's manual for comprehensive safety guidelines.

3. PACKAGE CONTENTS

Verify that all components are present before proceeding with setup:

- Farm Innovators Model 4250 Digital Circulated Air Incubator unit

- Automatic Egg Turner
- Deep Egg Tray
- Egg Candler
- Instruction Manual

4. SETUP

1. **Placement:** Position the incubator on a stable, level surface in a room with a consistent ambient temperature, away from direct sunlight, drafts, or extreme temperature fluctuations.
2. **Assembly:** Ensure the automatic egg turner and deep egg tray are correctly installed within the incubator base. The egg turner is designed to fit securely.
3. **Power Connection:** Plug the incubator into a standard 120V AC electrical outlet. The digital display should illuminate.
4. **Pre-heating:** Allow the incubator to pre-heat for at least 4-6 hours to stabilize the internal temperature at the factory pre-set of 100°F (37.8°C). Monitor the digital display for temperature readings.
5. **Initial Humidity:** Fill the easy-fill water channels located in the base of the incubator with warm water. This can be done without removing the lid. Refer to the manual for specific channel filling instructions to achieve desired humidity levels for your egg type.
6. **Placing Eggs:** Carefully place fertilized eggs into the egg turner. The turner can accommodate up to 41 chicken eggs, and its rollers can be adjusted for larger eggs like duck or goose.



Figure 2: Placing eggs into the automatic egg turner.

5. OPERATING INSTRUCTIONS

5.1 Digital Display Overview

The digital display provides real-time information:

- **Temperature:** Shows the current internal temperature (pre-set to 100°F).
- **Humidity:** Displays the current relative humidity percentage.
- **Days to Hatch:** A countdown timer, pre-set to 21 days for chicken eggs, adjustable for other species.
- **Egg Turning Times:** Indicates the interval until the next automatic egg turn.

FARM INNOVATORS^{CO}

DIGITAL CIRCULATED AIR INCUBATOR

Professional-grade egg incubator for hatching quail, duck, and chicken eggs efficiently.



Easy-Fill Water Channels
easy to clean



Thermostatically controlled
to operate only when
necessary



Figure 3: Digital display showing operational parameters.

5.2 Temperature and Humidity Control

- The incubator maintains a factory pre-set temperature of 100°F (37.8°C). This can be adjusted as needed for different species.
- Humidity is controlled by adding water to the easy-fill channels. Monitor the digital display and add water as necessary to maintain optimal levels for your specific eggs.
- A high/low temperature notification light will flash if the temperature falls outside the optimal range, alerting you to adjust conditions.

5.3 Automatic Egg Turning

- The automatic egg turner gently rotates eggs every 90 minutes in a 75-second cycle. This eliminates manual handling and ensures even heat distribution.
- The egg turner rollers can be adjusted to accommodate various egg sizes, from chicken to larger duck and goose eggs.

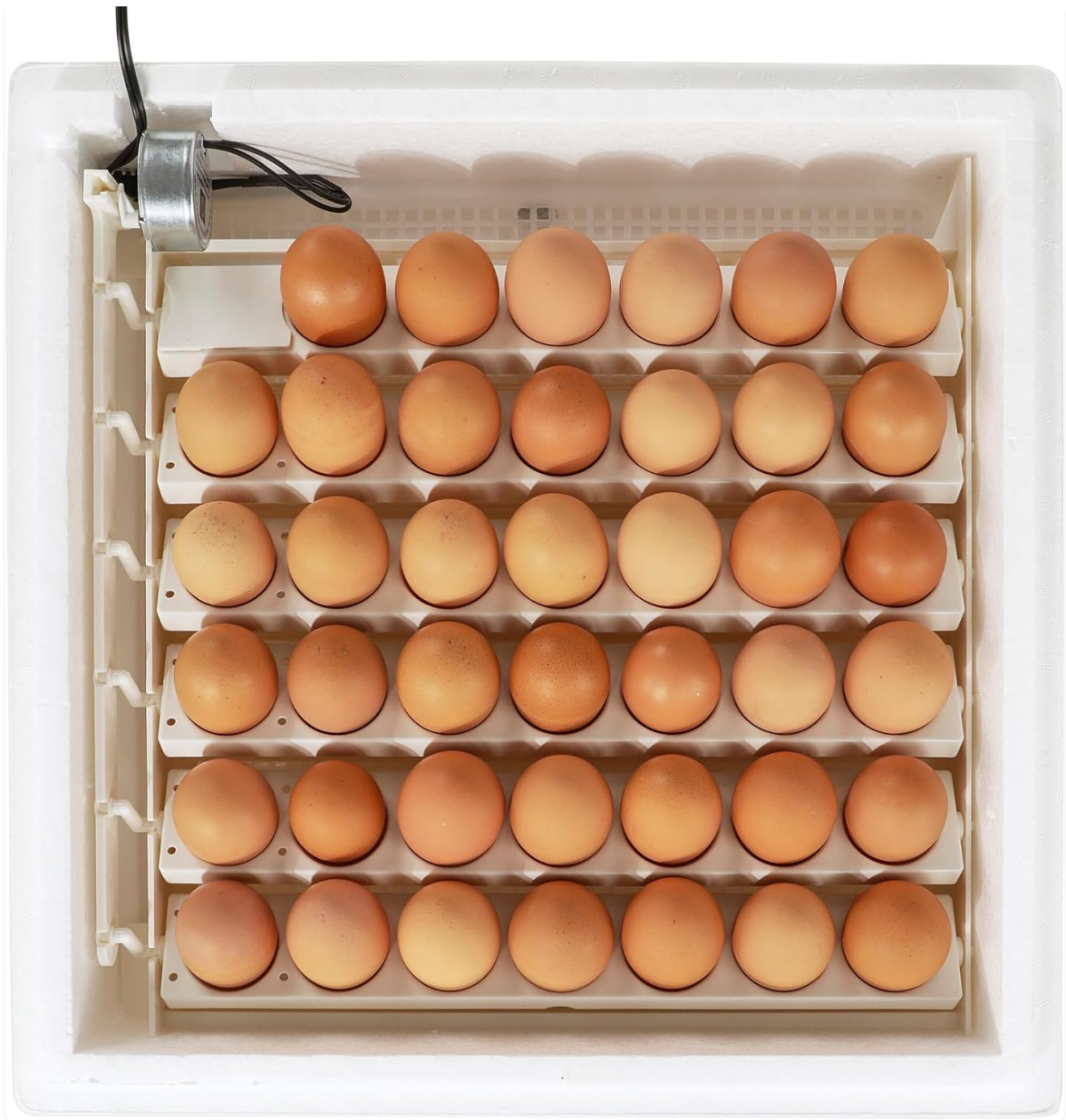


Figure 4: Eggs in the automatic turning mechanism.

5.4 Egg Candling

- Use the included egg candler to monitor the internal development of the eggs. This allows you to check for fertility and embryo growth without disturbing the incubation environment.



Figure 5: Using the included egg candler.

5.5 Lockdown Phase

- Approximately 3 days before the expected hatch date, remove the automatic egg turner. This allows the eggs to settle into position for hatching.
- Increase the humidity during this period by adding more water to the channels as per specific species requirements.

6. MAINTENANCE

- **Cleaning:** The durable plastic shell and easy-fill water channels are designed for simple cleaning. After each hatch, disconnect the power and clean all surfaces with a mild disinfectant solution. Ensure all parts are completely dry before storage or next use.
- **Water Channels:** Regularly check and refill water channels to maintain consistent humidity. The easy-fill design allows this without opening the lid.

7. TROUBLESHOOTING

- **Temperature Fluctuations:** If the high/low temperature notification light flashes, check the ambient room temperature and ensure the incubator is not exposed to drafts or direct sunlight. Adjust room conditions or incubator placement as needed.
- **Humidity Issues:** If humidity is too low, add more warm water to the channels. If too high, ensure proper ventilation by adjusting the vent plugs (if applicable) or reducing water in channels.
- **Egg Turner Not Working:** Ensure the egg turner is properly connected and the incubator is powered on. If the issue persists, consult the full owner's manual.

8. SPECIFICATIONS

- **Model Number:** 4250
- **Capacity:** Up to 41 standard chicken eggs (adjustable for larger eggs)
- **Dimensions:** 18 x 18 x 8 inches
- **Item Weight:** 8.75 pounds
- **Power:** 40W/120VAC
- **Temperature Control:** Digital display, pre-set 100°F (37.8°C), adjustable
- **Humidity Control:** Digital display, easy-fill water channels
- **Egg Turning:** Automatic, every 90 minutes (75-second cycle)
- **Viewing:** 360-degree picture window
- **Construction:** Styrofoam for insulation, durable plastic shell

FARM INNOVATORS[®]

EQUIPPED WITH AUTOMATIC EGG TURNING AND HUMIDITY CONTROL,
ENSURING OPTIMAL CONDITIONS FOR SUCCESSFUL HATCHING.



Length and Width
7.50"

Height
4.25"

Weight
8.75
lbs.

Durable Plastic
Shell

— MODEL — 4250

- Automatic egg turner eliminates manual handling for up to 41 eggs; deep bottom tray to accommodate even large duck & goose eggs
- Large picture window provides 360° unobstructed view inside incubator; included Egg Candler lets you check the internal development process of the eggs

Manufacturer's warranty:
30-day warranty

Figure 6: Product dimensions and key features.

9. WARRANTY AND SUPPORT

This product comes with a 30-day manufacturer's warranty. For technical support, troubleshooting assistance, or warranty claims, please contact Farm Innovators customer service.

Manufacturer: Farm Innovators Pet Products

Contact Information: Refer to the official Farm Innovators website or the product packaging for the most current contact details.

10. OFFICIAL PRODUCT VIDEOS

10.1 Tested & Unboxed: The Digital Incubator Trusted by American Farmers

Your browser does not support the video tag.

Video 1: An unboxing and overview of the digital incubator, highlighting its features and ease of use for hatching.

10.2 Farm Innovators Model 4250 Digital Circulated Air Incubator with Automatic Egg Turner

Your browser does not support the video tag.

Video 2: A brief merchant video showcasing the Farm Innovators Model 4250 incubator and its automatic egg turning feature.