

[Manuals.plus](#) /

› [A&I Brooders and Incubators](#) /

› R-com Rcom Large Avian Brooder Nursery ICU MX-BL500N User Manual

A&I Brooders and Incubators MX-BL500N

R-com Rcom Large Avian Brooder Nursery ICU MX-BL500N User Manual

Model: MX-BL500N

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of the R-com Rcom Large Avian Brooder Nursery ICU MX-BL500N. This unit is designed to provide a controlled and safe environment for companion birds and newborn animals, functioning as both a brooder and an Intensive Care Recovery Room.

The MX-BL500N incorporates advanced features such as automatic temperature and humidity control, an anion activation function, and a centralized heating system for enhanced stability and durability.



Figure 1: R-com Rcom Large Avian Brooder Nursery ICU MX-BL500N Overview.

2. KEY FEATURES

- **Centralized Heating System:** Utilizes a PTC memory element from a carbon-filmed heating system for improved stability and durability.
- **Automatic Temperature & Humidity Control:** Independent systems for precise environmental management.
- **Built-in Air Filter / Deodorizing Filter:** For maintaining air quality within the unit.
- **Anion Activation Function:** Enhances the internal environment.

- **Water Pump for Humidification:** Ensures consistent humidity levels.
- **Energy Efficiency:** Reduces electric power consumption by up to 40% compared to older models.
- **Recessed Brooding Tray:** Designed for easy cleaning and hygiene management.
- **10-Stage Dimmer for Illumination:** Allows control over indoor lighting brightness.
- **Rotary Door:** Facilitates easy access and observation of occupants.
- **BLDC Fan:** Optimizes internal air circulation and minimizes noise (69db).
- **Large FND Display:** Easy-to-read display for temperature and humidity settings.
- **Alarm Function:** Notifies users in case of abnormal temperature conditions.

AUTOELEX's very own technology-concentrated exclusive brooder for birds.

Rcom BIRD BROODER provides an appropriate environment for companion birds and newborn birds in need of treatment by improved device safety and durability through a centralized heating method.

It's a Brooder for daylife, but can be used as a Intensive Care Recovery Room when the bird is sick.



* The hanger picture are for illustration purpose only and are not included with this product.

Figure 2: Internal airflow and key features of the R-com Brooder.

Large FND display

Easy-to-use menu options, enable optimal environment setting according to the health condition of animal patient.



Figure 3: Close-up of the Large FND display showing temperature and humidity readings.

3. SETUP

3.1 Unpacking and Placement

1. Carefully remove the brooder from its packaging.
2. Place the unit on a stable, level surface away from direct sunlight, drafts, and extreme temperature fluctuations. Ensure adequate space around the unit for ventilation.
3. Verify all components are present: main unit, power cord, water pump, and any included trays.

3.2 Tray Installation

The brooder features a recessed brooding tray for easy cleaning. A secondary tray option is available to create compartments or accommodate newborn birds.

Rotatable sliding door and drawer-separated tray

The sliding door helps to check the condition of the birds easily and the drawer-separated tray helps to manage hygiene conveniently.



Figure 4: The rotatable sliding door and drawer-separated tray for easy access and hygiene.

Secondary tray

A secondary tray equipped to create a compartment or grow newborn birds.

* Secondary tray - Option



Figure 5: Installation of the optional secondary tray for partitioning the brooding area.

3.3 Power Connection

Connect the power cord to the unit and then to a suitable electrical outlet (AC 100-120V, 50/60Hz or AC 220-240V, 50/60Hz depending on model and region). Ensure the power switch is in the OFF position before connecting.

4. OPERATING INSTRUCTIONS

4.1 Power On and Initial Settings

1. Press the **POWER** button to turn on the unit. The FND display will illuminate.
2. The unit will display current temperature and humidity readings.

4.2 Temperature Control

The R-com Brooder features automatic temperature control. To adjust the target temperature:

1. Press the **TEMPERATURE** button. The temperature value on the display will blink.
2. Use the **UP** and **DOWN** arrow buttons to set the desired temperature.
3. Press **OK** to confirm the setting. The unit will begin adjusting to the new temperature.



Figure 6: Automatic temperature and humidity control system.

4.3 Humidity Control

The unit includes an independent humidity system with a water pump. To adjust the target humidity:

1. Ensure the water reservoir is filled and the water pump is correctly installed.
2. Press the **HUMIDITY** button. The humidity value on the display will blink.
3. Use the **UP** and **DOWN** arrow buttons to set the desired humidity.
4. Press **OK** to confirm the setting. The unit will activate the water pump to reach the target humidity.
5. An alarm function will notify you if there is insufficient water for humidification.

4.4 Illumination Control (LED Lighting)

The internal LED lighting brightness can be adjusted in 10 stages.

1. Press the **LIGHT** button (or equivalent, refer to control panel diagram if available).
2. Use the **UP** and **DOWN** arrow buttons to cycle through the brightness levels.
3. The display may show the current light level (e.g., L1-L10).



Figure 7: Control panel showing LED lighting adjustment options.

5. MAINTENANCE

5.1 Cleaning the Brooding Tray

The recessed brooding tray is designed for easy removal and cleaning to maintain hygiene.

1. Gently slide out the brooding tray.
2. Clean the tray with a mild disinfectant solution and rinse thoroughly.
3. Ensure the tray is completely dry before reinserting it into the unit.

5.2 Air Filter / Deodorizing Filter Maintenance

Regularly check and clean or replace the built-in air filter and deodorizing filter to ensure optimal air quality and unit performance.

1. Locate the air filter compartment (refer to unit diagram if available).
2. Remove the filter and clean it according to manufacturer recommendations (e.g., vacuuming, rinsing, or replacement).
3. Reinstall the clean or new filter.

5.3 Water Reservoir and Pump

Periodically clean the water reservoir and water pump to prevent mineral buildup and ensure efficient humidification.

1. Drain any remaining water from the reservoir.
2. Clean the reservoir and pump components with a mild descaling solution if necessary, then rinse thoroughly.
3. Refill with clean, distilled water for best results.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	Power cord not connected; Power outlet issue; Unit fuse blown.	Check power cord connection; Test power outlet; Check and replace fuse (250V 10.0A).
Temperature not stable or incorrect.	Unit placed in drafty area; Sensor malfunction; Heating element issue.	Relocate unit to a stable environment; Contact customer support if sensor or heating element is suspected.
Humidity not reaching set level or alarm for low water.	Water reservoir empty; Water pump clogged or malfunctioning; Humidity sensor issue.	Refill water reservoir; Clean water pump; Contact customer support if sensor is suspected.
Excessive fan noise.	Obstruction in fan; Fan malfunction.	Ensure no obstructions; If noise persists, contact customer support.

7. SPECIFICATIONS

Parameter	Value
Model No.	MX-BL500, MX-BL500(N)
Temperature Control	Ambient temperature ~ 38°C / ~ 100°F
External Environment Temp.	Optimum range 20 ~ 25°C / 68 ~ 77°F
Humidity Control	40 ~ 60% (Adjustable based on conditions)
External Environment Humi.	40 ~ 60%
Display	FND

Parameter	Value
Power	AC 100-120V, 50/60Hz / AC 220-240V, 50/60Hz
Power Consumption	Average 90W
Size (W x L x H)	855mm x 470mm x 440mm / Capacity 90L
Weight (N.W. / G.W.)	10kg / 14.5kg
Fuse	250V 10.0A (Ø5*20mm)

Rcom BRID BROODER size

Rcom BIRD BROODER has two different sizes.

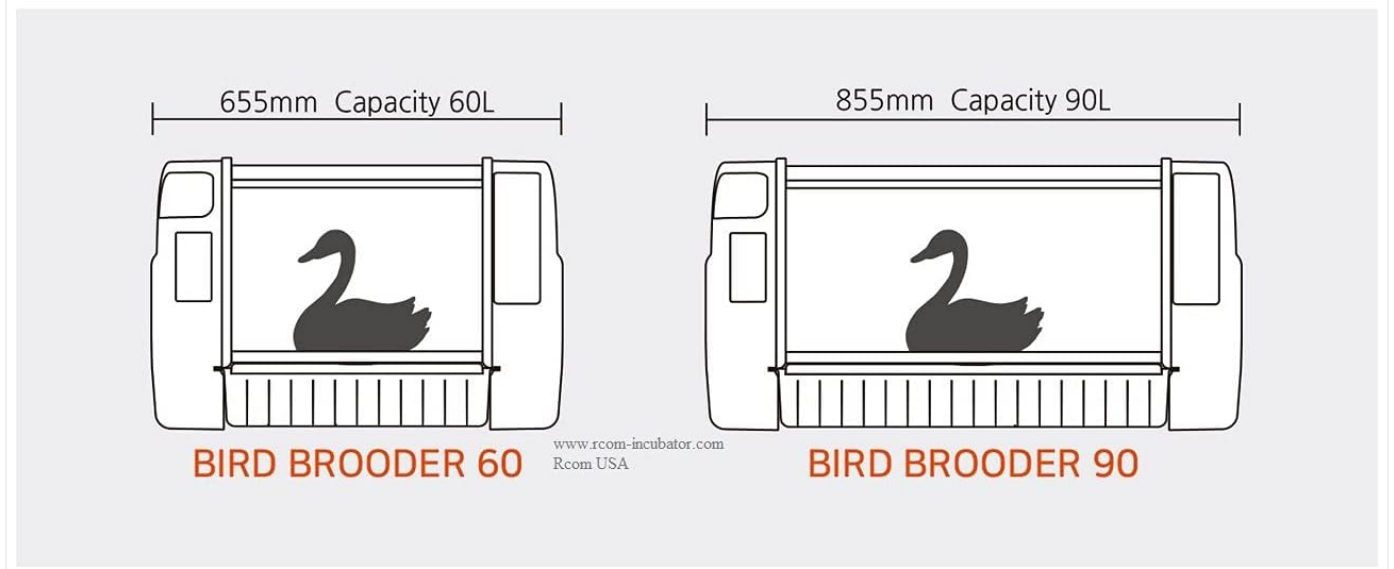


Figure 8: Size comparison of R-com Brooder models (60L and 90L).

SPECIFICATION	
Name	Rcom BIRD BROODER 90
Model NO.	MX-BL500, MX-BL500(N)
Temp. Control	Ambient temperaturer ~ 38°C / ~ 100°F
External environment temp.	Optimum range 20 ~ 25°C / 68 ~ 77°F
Humi. Control	40 ~ 60% (It can be changed according to the conditions)
External environment humi.	40 ~ 60%
Display	FND www.rcom-incubator.com Rcom USA
Power	AC 100-120V, 50/60Hz / AC 220-240V, 50/60Hz
Power consumption	Average 90W
Size	(W)855 x (L)470 x (H)440mm / Capacity 90L
Weight	10kg(N.W.) / 14.5kg(G.W)
Fuse	250V 10.0A (Ø5*20mm)

Figure 9: Detailed technical specifications for the R-com Brooder 90.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact your authorized dealer or the manufacturer, Autoelex Rcom. Please have your model number (MX-BL500N) and date of purchase available when contacting support.

Manufacturer: Autoelex Rcom

Brand: A&I Brooders and Incubators

